

electronics

MID-MONTH
JUNE 1950

Annual **BUYERS' GUIDE ISSUE**

PRICE • TWO DOLLARS

A MCGRAW-HILL PUBLICATION • 330 WEST 42nd ST. • NEW YORK 18, N. Y.



COMPONENTS FOR EVERY APPLICATION



LINEAR STANDARD
High Fidelity Ideal



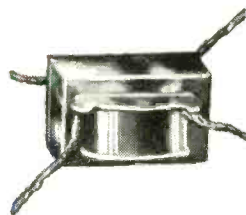
HIPERM ALLOY
High Fidelity . . . Compact



ULTRA COMPACT
Portable . . . High Fidelity



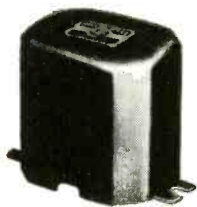
OUNCER
Wide Range . . . 1 ounce



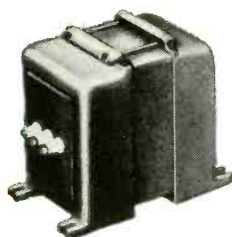
SUB OUNCER
Weight 1/3 ounce



COMMERCIAL GRADE
Industrial Dependability



SPECIAL SERIES
Quality for the "Ham"



POWER COMPONENTS
Rugged . . . Dependable



VARITRAN
Voltage Adjustors



MODULATION UNITS
One watt to 100KW



VARIABLE INDUCTOR
Adjust like a Trimmer



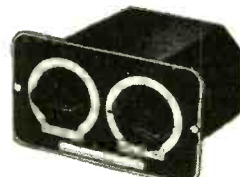
TOROID HIGH Q COILS
Accuracy . . . Stability



TOROID FILTERS
Any type to 300KC



MU-CORE FILTERS
Any type 1/2 - 10,000 cyc.



EQUALIZERS
Broadcast & Sound



PULSE TRANSFORMERS
For aE Services



HERMETIC COMPONENTS
Ceramic Terminals



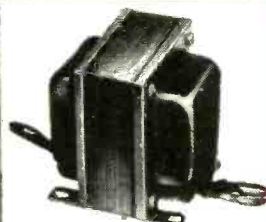
PLUG IN ADAPTER
Impedance Matching



FOSTERITE
Grade 3 JAN Components



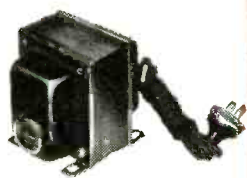
CABLE TYPE
For mike cable line



VERTICAL SHELLS
Husky . . . Inexpensive



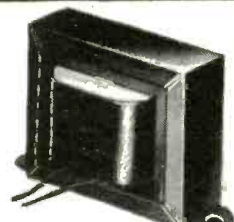
REPLACEMENT
Universal Mounting



STEP-DOWN
Up to 2500W . . . Stock



LINE ADJUSTORS
Match any line voltage



CHANNEL FRAME
Simple . . . Low cost

United Transformer Co.
150 VARICK STREET NEW YORK 13, N. Y.

EXPORT DIVISION: 13 EAST 40th STREET, NEW YORK 16, N. Y., CABLES: "ARLAB"

electronics BUYERS' GUIDE

JUNE MID-MONTH • 1950

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FOREWORD

This is *your* Buyers' Guide—its contents and format determined by extensive survey among the subscribers to ELECTRONICS.

It is an *extra*—a bonus edition designed for service at your elbow throughout the next twelve months.

In it we are publishing the most complete directory, as to diversity of products, which has yet been presented.

In addition we have done an earnest job of preparing editorial reference material designed to help you repeatedly in your work.

Many advertisers have seen fit to utilize these pages to describe and catalog their products. It is our hope that this combination of buying-source listings, product advertising and reference material constitutes a service which will further strengthen our position with you, the subscriber.

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This index is published as a convenience to the readers. Every care is taken to make it accurate, but The Electronics Buyers' Guide assumes no responsibility for errors or omissions.

NOW is the time

TO INCLUDE THE 1951-52

ELECTRONICS BUYERS' GUIDE

IN NEXT YEARS' ADVERTISING BUDGET

MICROWAVE COMPONENTS



MAGNETRONS



4J78

The Sylvania family of Magnetrons operates in the shf band at peak power levels ranging from 7 to 300 kw and at average power ranging from 14 to 300 watts. 2J42 and 2J42A are of the vane type; 3J31, rising sun; 4J50, 4J52 and 4J78, hole and slot. All except 3J31 are supplied with magnet. Write for bulletin EC-37.

Type	Frequency Range (mc)	Pulsed Power Out (kw)	Avg. Power Out (watts)
2J42	9345-9405	7-14	14
2J42A	9345-9405	18-35	18
3J31	23,744-24,224	30-54	15-27
4J50	9345-9405	300	200
4J52	9345-9405	65-120	65
4J78	9003-9168	300	200



2C36

ROCKET TUBES

Sylvania Rocket Tubes are planar-electrode disc-seal triodes for use as oscillators and amplifiers at frequencies up to 3300 mc. Design permits broad band operation. Tuning is simpler and covers a greater continuous range than that of many other types of uhf tubes.

2C36 is a pulse-modulated oscillator for frequencies up to 1200 mc.

2C37 is designed for use as a c.w. oscillator up to 3300 mc. Plate disc is flat, grid disc folded.

5764 is a pulse-modulated oscillator for use up to 3300 mc.

5765 is for use as a c.w. oscillator without external feedback in the range from 900 to 3000 mc.

5766 is a c.w. oscillator for use up to 3300 mc. Plate disc is folded, grid disc flat.

5767 is a c.w. oscillator for use up to 3300 mc. Both discs are folded.

5768 is intended for use as a c.w. amplifier-multiplier up to 3000 mc.

For complete information, write for bulletin ES-4810.



4C35

HYDROGEN THYRATRONS

Sylvania Hydrogen Thyratrons are designed for pulsing service at high repetition frequencies, high peak currents and high voltages. An outstanding feature is very short de-

ionization time, which permits an unusually high switching rate.

For information on ratings and operating characteristics, write for Data Sheets EC-24 and EC-25.

TR's and ATR's

Sylvania TR and ATR Tubes are used chiefly as automatic electronic transmit-receive switches in radar equipment. Major characteristics of some of the more commonly used types are shown in table. For full data on complete line, write for bulletin ES-21C.



1B63A

Type	Frequency Range (mc)	Insertion Loss (db)	Max. Recovery Time (μ sec. at -3 db)
1B24	8490-9600	0.85-1.50	4
1B63	8565-9487 (1)	0.8	4
1B63A	8490-9578 (2) 8565-9487 (3)	0.8 max.	4

Type	Frequency Range (mc)	Transmitter Peak Power (kw min.)	Tuning Susceptance (mhos)	Arc Loss (db. max.)
1B35	9000-9600	5	-.06 to +.06	0.8

(1) 1.6 VSWR. (2) 1.9 VSWR. (3) 1.4 VSWR.

KLYSTRONS

Sylvania Types 6BL6 and 6BM6 are intended for use as c.w. oscillators. They are of the separate cavity type, with oscillation frequency depending chiefly on external tuning. 5836 and 5837 are suitable for either c.w. or pulsed operation. Data sheets are available.



6BL6

Type	Mode	Frequency Range (mc)
6BL6	1 $\frac{1}{2}$	1600-4000
	2 $\frac{3}{4}$	2100-4500
	3 $\frac{3}{4}$	4000-5500
6BM6	1 $\frac{1}{2}$	550-2300
	2 $\frac{3}{4}$	1100-3000
5836	1 $\frac{1}{2}$	1600-4000
	2 $\frac{3}{4}$	2100-4500
	3 $\frac{3}{4}$	4000-5500
5837	1 $\frac{1}{2}$	550-2300
	2 $\frac{3}{4}$	1100-3000



5C22

SYLVANIA ELECTRIC

1740 Broadway, New York 19, N. Y.

INDUSTRIAL ELECTRONIC TUBES



FLASH TUBES



R4340

Sylvania Flash Tubes, used with suitable equipment, provide blue-white flashes of intense brilliance and extremely short duration. They find extensive use in flash photography, and may also be used in beacons, obstruction markers and signaling devices.

Type R4330 has a maximum rate of 6 flashes a minute, with a peak light output of 12,000,000 lumens and an integrated output of 3,500 lumen-sec. per flash.

Flashing rate of the R4340 is 4 per minute maximum, peak light output 12,000,000 lumens, integrated output 18,000 lumen-sec. per flash.

STROBOTRONS & TRIGGER TUBES

Sylvania Strobotrons provide a means of "freezing" the motion of rotating or reciprocating machinery. Type 1D21/SN4 produces neon-red flashes at rates up to 240 per second. SA-309 and R4350 produce bluish-white light pulses, and are ideal for application where true-color viewing is essential. Maximum flashing rate of the R4350 is 15 per second; of the SA-309, 100 per second.

Triggertube Type 0A5 provides a convenient means of triggering any of the above Strobotrons from very low current sources. Type 0A5 may also be used for other electronic relay and for regular Strobotron purposes.



1D21/SN4

GLOW MODULATOR TUBES

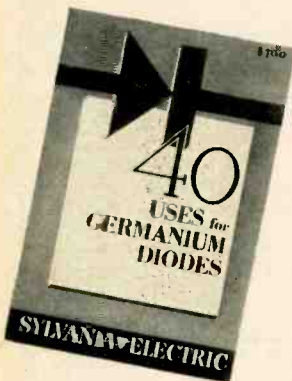
Light output of Sylvania Glow Modulator Tubes varies in an essentially linear manner with the current passing through the tubes. Tubes are of the crater type, providing high ionization density.



R1130B

	R1130B	R1131A
Operating Voltage, max.	150	135
Operating current, ma	5-35	3-25
Modulating Freq. Range, cps	15-15,000	15-15,000
Useful Light Range, Angstroms	3,500-6,500	3,500-6,500
Crater Diameter, inches	.056	.093

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R1111

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REFERENCE SHEET SECTION



POPULAR FEATURE of **ELECTRONICS** since the first issue of this magazine has been its Reference Sheets, pages that constitute graphical and tabular shortcuts for engineers who design, produce, install and maintain equipment.

Presented in the following pages are 21 of the sheets that have proven generally useful. Many of these have been revised. In addition, we have included a complete index of all those that have appeared since April 1930

The Editors

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VECTOR COMPUTATIONS

Aids in transforming rectangular to polar coordinates, and for determining the reciprocal of a complex number. Number of operations involved is much less than with alternative sliderule methods, particularly when working with multimesh networks. Range of charts is easily extended

By PAUL W. KLIPSCH

THE practical use of complex quantities in electrical engineering is almost as old as the profession itself. The charts presented here aid in performing two important vector operations, Fig. 1 transforming an equation in rectangular coordinates, $z = x + jy$, to its polar form, a/b , and vice versa. Figure 2 is useful in determining the reciprocal of a complex number, that is in solving the equation

$$x + jy = (a + jb)^{-1}$$

Of course the sliderule can be used in solving these problems, but the number of operations can become rather numerous.

Getting the Vector Sum

Consider the problem of finding z in the equation

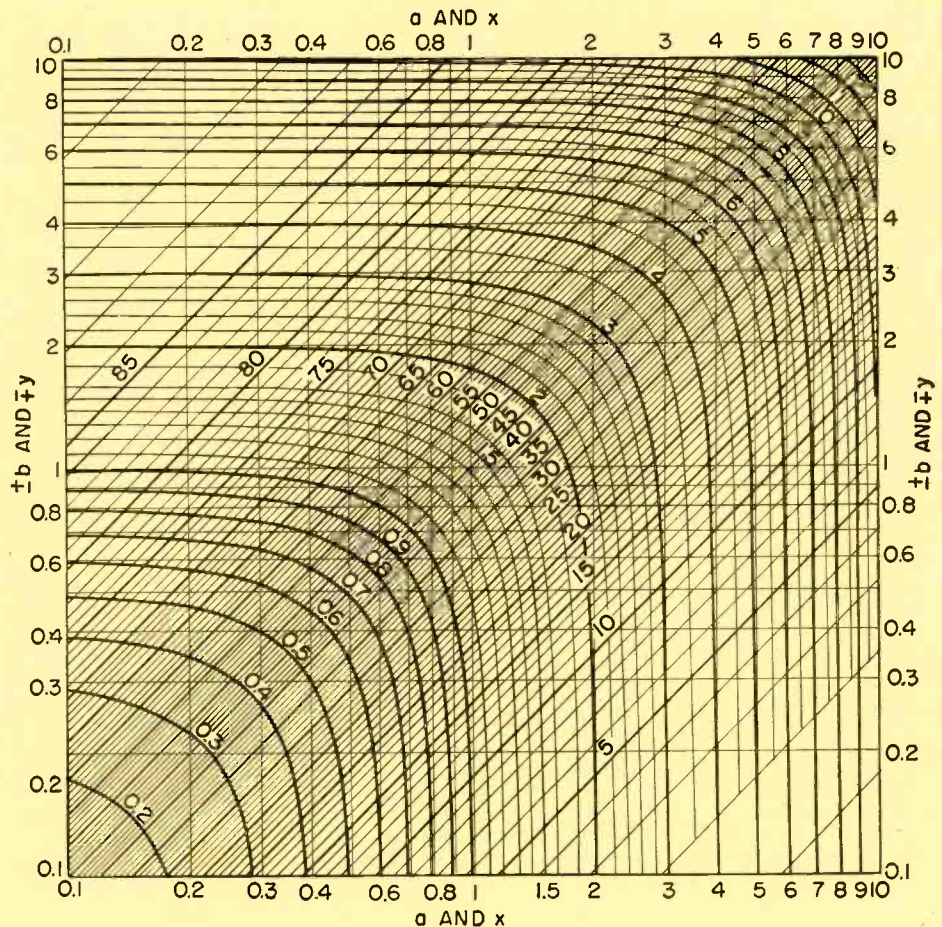
$$x + jy = z$$

The absolute value of z (written $|z|$) is readily found in two operations on a sliderule as follows: On the C and D scales take the ratio of x and y such that the ratio, greater than unity, appears on the D scale at the index mark on the slide. Opposite this

ratio find its square on the A scale, add one, run the slide up to this new point, and under x or y , whichever is the smaller, on the C scale will be found $|z|$ on the D scale. For example, take $3 + j4$. Set 3 on the C scale opposite 4 on the D scale which places the slide index at 1.333 on the D scale and 1.778 on the A scale. Add 1 and run the slide index up to 2.778 on the A scale. Under 3 on the C scale find the answer, 5, on the D scale. This is in effect a solution of the equation

$$|z| = (x^2 + y^2)^{1/2} = y[(x/y)^2 + 1]^{1/2}$$

FIG. 1—Graph for converting a complex number from rectangular to polar coordinates and vice versa. The x and y axes are spaced logarithmically; the curved lines represent the argument a ; the straight lines from lower left to upper right give the phase angle, b



Finding the phase angle involves the additional operation of determining the value of the impedance angle, $\angle z = \tan^{-1}y/x$.

Using Chart for Vector Sum

An alternate of the sliderule method is the use of the chart of Fig. 1 in which a transformation from rectangular to polar coordinates is performed in a single operation. The modulus and argument (absolute value and phase angle) can be found from the x and y components or the reverse operation can be performed. For example, locating the point (3, 4) on the rectangular system gives $|z| = 5$ on the curved coordinates and $\angle z = 53$ deg on the diagonal coordinates.

For a series of operations in solving a multimesh network, the multiplicity of sliderule steps

become tedious, but the chart of Fig. 2 gives each reciprocal in a single operation. The vector reciprocal is the solution of the equation

$$x + jy = (a + jb)^{-1}$$

and the solution by means of the chart is simply that of looking up the numbers a and b on the rectangular system and then finding the coordinates of the same point (a, b) on the curvilinear system which are x and y , the sign of y being reversed with respect to the sign of b .

Extending the Range

When the ratio of a to b lies outside the range 1/10 to 10 a simple approximation may be used, and when the numbers are otherwise off the chart a factor of ten or power of ten may be

applied to the number to arrive at a value locatable on the chart, looking up the converted value on the chart and applying the same factor to the answer. To use the $3 + j4$ example again, the reciprocal is found to be $0.12 - j0.16$. As an example of a complex number outside the scale of the chart, take $30 + j40$. Using a factor $1/10$, $(30 + j40)/10 = 3 + j4$ and the reciprocal is $(1/10) \times (0.12 - j0.16) = 0.012 - j0.016$. For the case in which the ratio of a and b is greater than 10, the chart is not needed to arrive at a close approximation. For example, let $a + jb = 3 + j40$. The reciprocal is $3/40^2 - j1/40 = 3/1600 - j1/40 = 0.001875 - j0.025$ within less than 1 percent, the true value being close to $0.00187 - j0.0249$.

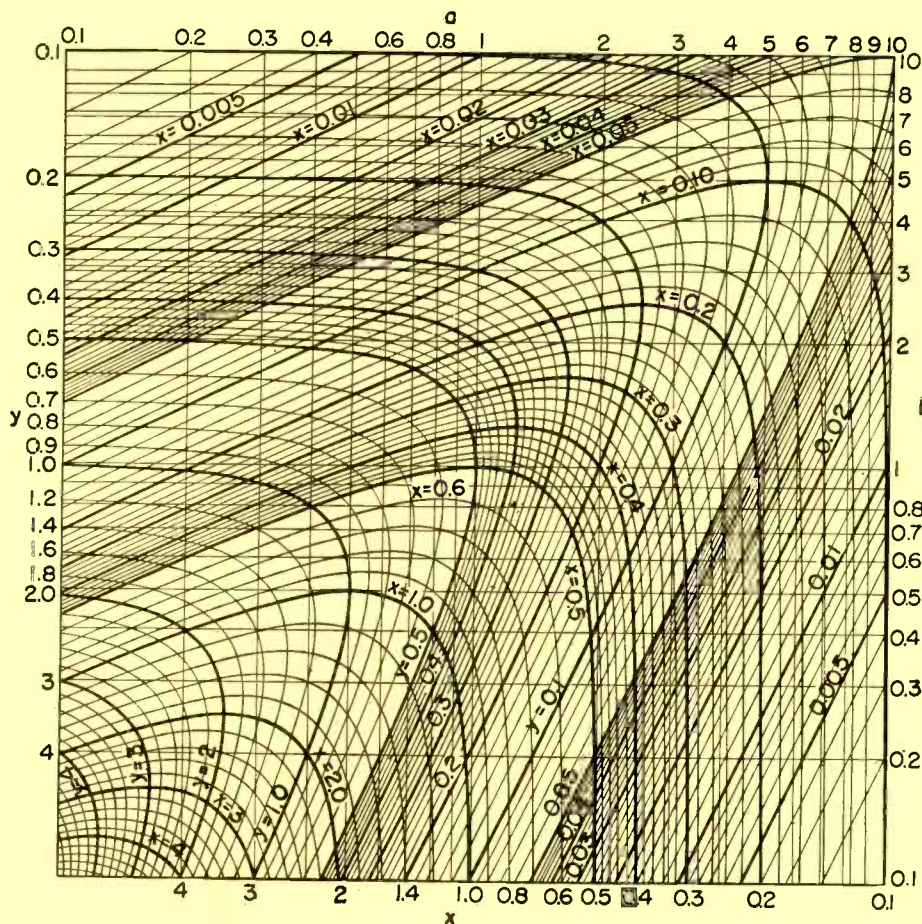


FIG. 2—For determining the reciprocal of a complex number. As an example, the reciprocal of $z = a + jb = 3 + j4$ on the a and b scales (top and right) is found to be $z^{-1} = x - jy = 0.12 - j0.16$ on the x and y scales (bottom and left)

SQUARE ROOT of a COMPLEX NUMBER

Tedious and time-consuming calculations required in finding the square root of a complex number in transmission line and filter calculations can be greatly simplified through the use of this graph

By ROBERT G. NISLE

IN designing certain types of electrical networks the need frequently arises for evaluating the square root of a complex number such as an impedance. If the impedance is expressed in polar coordinates any root can be quickly and easily found, but if the expression is originally given in rectangular coordinates, the required operations are tedious and time consuming. The impedance must first be converted from rectangular to polar form, the square root is then determined, and finally the result is reconverted into rectangular coordinates, thereby requiring three separate and distinct operations.

A method by which the square root of any complex number, expressed in rectangular coordinates, can be easily and quickly determined, also in rectangular coordinates, is given here. The errors to be expected are simply those which result from reading any graph and are negligible for most engineering purposes.

To Extend the Range

If it is necessary to consider ranges outside that covered by the graph, this can be done by multiplying the original complex number by some suitable scale factor (such as 0.01 or 100) so that the problem may be fitted into the range for which the

chart is drawn. The final result will then have to be multiplied by the reciprocal of this scale factor (for example, 100 or 0.01, respectively).

If the original complex number is

$$Z = a + jb$$

the problem before us is to determine

$$Z^{\frac{1}{2}} = x + jy$$

The double set of coordinates relate the quantities x , y , b , and $K = a/b$ so that when any two are known, their intersection determines a position or point on the chart from which the remaining two quantities may be determined. To use the chart, first determine $K = a/b$. Then, knowing K and b , find the intersection of these two coordinates on the vertical and horizontal axes. The point of intersection thus found will also be the point of intersection for the desired values of x and y , read off from the slanting scale.

It should be noted that $Z^{\frac{1}{2}}$ has two roots, a positive root and a negative root. Geometrically, these two possibilities are indicated in graphical form by means of vectors which are directed in opposite directions, or are 180 deg apart. The physical requirements of the problem must be considered when deciding which of the two roots is to be used.

Example 1: Assume that we

have an impedance

$$Z = a + jb = 15 + j20$$

and that it is required to determine

$$Z^{\frac{1}{2}} = x + jy$$

First determine $K = a/b = 0.75$. Locate the intersection of the coordinates, $K = 0.75$ and $b = 20$. At this point read $x = 4.46$ and $y = 2.25$. The desired result is then

$$Z^{\frac{1}{2}} = x + jy = 4.46 + j2.25$$

or its negative value,

$$Z^{\frac{1}{2}} = -x - jy = -4.46 - j2.25.$$

Example 2: If the complex number is

$$Z = -15 + j20$$

the result is

$$Z^{\frac{1}{2}} = x + jy = 2.25 + j4.46$$

or, alternatively

$$Z^{\frac{1}{2}} = -x - jy = -2.25 - j4.46.$$

Example 3: If the impedance is

$$Z = -15 - j20$$

the final result is

$$Z^{\frac{1}{2}} = -2.25 + j4.46$$

or

$$Z^{\frac{1}{2}} = 2.25 - j4.46$$

Example 4: If the impedance is

$$Z = 15 - j20$$

the final result is

$$Z^{\frac{1}{2}} = -4.46 + j2.25$$

or

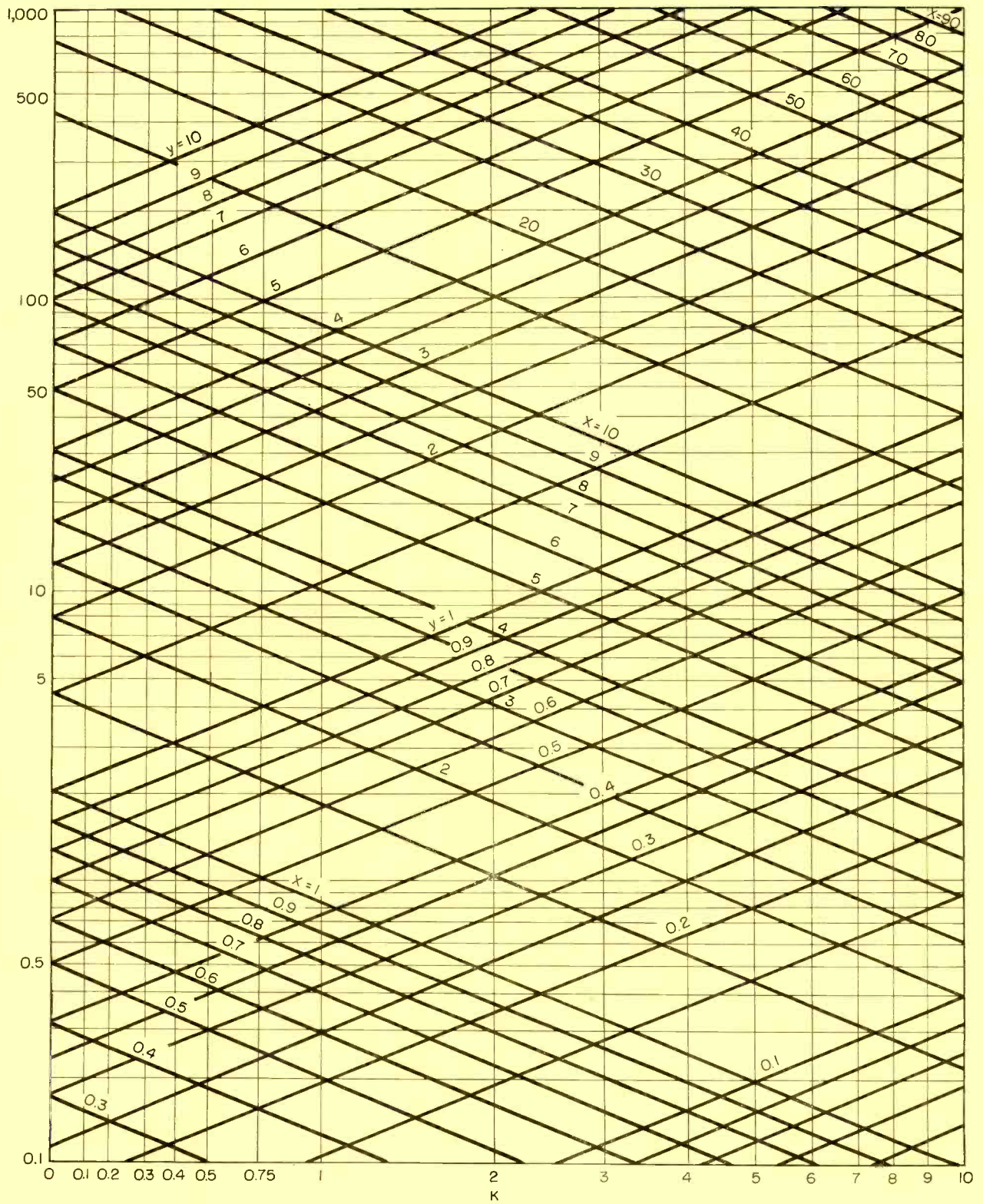
$$Z^{\frac{1}{2}} = 4.46 - j2.25.$$

Example 5: If the impedance is

$$Z = 150 + j200$$

we find that $K = 0.75$, $b = 200$, $x = 14.2$ and $y = 7.1$. The result is

$$Z^{\frac{1}{2}} = 14.2 + j7.1.$$



REVERBERATION-TIME NOMOGRAPHS

By R. C. COILE

REVERBERATION TIME is the length of time required for the intensity of a sound to drop to one-millionth of its original intensity, which corresponds to a change of 60 db. The reverberation time of a room may be computed, knowing the dimensions of the room and the acoustical absorption coefficients of the different surfaces, from

$$T = \frac{0.049V}{A \log_e \left(\frac{1}{1-\alpha} \right)} \quad (1)$$

where T is the reverberation time in seconds, V is the volume of the room in cubic feet, A is the total surface area in square feet, α is the average absorption coefficient of the room and is equal to $(A_1\alpha_1 + A_2\alpha_2 + \dots) / (A_1 + A_2)$, and α_1 is the absorption coefficient of area A_1 .

This expression may be simplified into an approximate expression accurate enough for the calculation of reverberation time of most rooms

$$T \cong 0.049 \frac{V}{a} \quad (2)$$

where V is the volume of the room in cubic feet and a is the number of absorption units in the room computed by adding the absorption of each surface: $a = A_1\alpha_1 + A_2\alpha_2 \dots$

Two nomographs have been designed to facilitate rapid calculations of reverberation time. The number of absorption units in a room may be found by using the acoustical absorption nomograph in Fig. 1. Then, knowing the absorption units and the

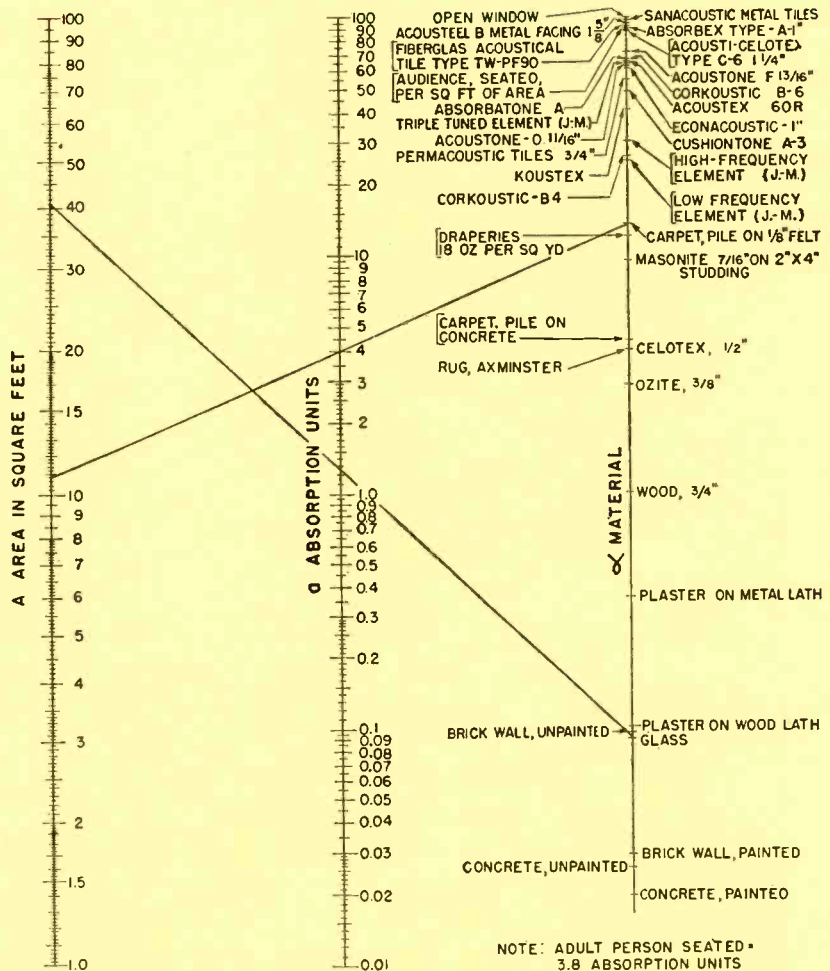


FIG. 1—Acoustical absorption nomograph based on $a = A\alpha$, where α is the acoustical coefficient of the material

volume, the reverberation time is given by the reverberation-time nomograph in Fig. 2.

Example

Find the reverberation time of a room 9 ft wide and 12 ft long, with a ceiling height of 8 ft. The walls and ceiling are of plaster on wood lath. One wall has a window 4 ft by 5 ft. Another wall has a glass

door 3 ft by 7 ft. The floor is covered with a pile carpet on 3/8-in. felt. One adult person is in the room.

(a) Compute areas in sq ft, as follows:

Carpet	9 × 12 = 108	floor
Glass	4 × 5 = 20	window
	3 × 7 = 21	door
	41	
Plaster	9 × 12 = 108	ceiling
(8 × 12)	- 21 = 75	wall minus door

Areas of materials in room are measured and number of absorption units of each material is found with first nomograph. Total absorption units are then combined with room volume on second nomograph to obtain directly the reverberation time in seconds

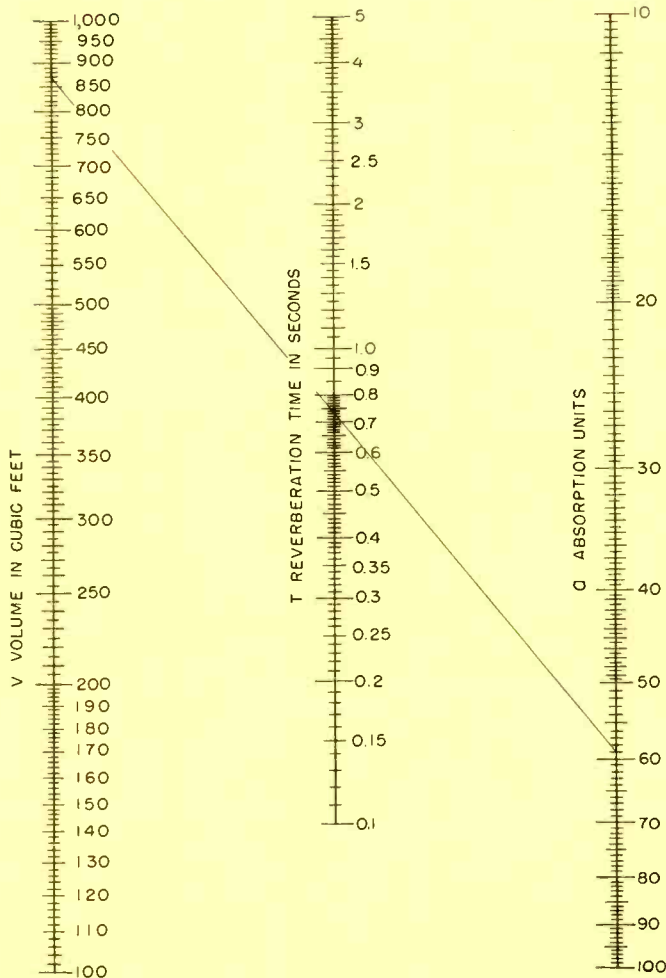


FIG. 2—Reverberation time nomograph, based on $T = 0.049 V/a$. From Fig. 1, a may be obtained graphically

$$\begin{array}{r}
 9 \times 8 = 72 \text{ wall} \\
 9 \times 8 = 72 \text{ wall} \\
 (8 \times 12) - 20 = 76 \text{ wall minus} \\
 \quad \quad \quad \text{window} \\
 \hline
 403
 \end{array}$$

(b) Compute absorption units, by first laying a straightedge between 41 on the area scale and glass on the material scale of the acoustical absorption nomograph in Fig. 1. Read the answer of 1.2 absorption units at the inter-

section of the straightedge with the absorption-units scale.

(The range of this nomograph can be extended by multiplying the area scale and the absorption-unit scale by the same factor, such as 10. For example, to find the absorption units of the carpet area of 108 sq ft, connecting a line between 10.8 on the area scale and carpet pile on $\frac{1}{8}$ -in. felt on the material scale

gives 4.0 absorption units. Multiplying 4.0 by a factor of 10 gives the answer of 40.0 absorption units.)

Similarly, 13.3 absorption units are obtained for 403 sq ft of plaster on wood lath, and 3.8 absorption units constitute the allowance for one person. Adding then gives a total of 58.3 absorption units.

(c) Compute volume of room: $9 \times 12 \times 8 = 864$ cu ft.

(d) Compute reverberation time by laying a straightedge between 864 on the volume scale and 58.3 on the absorption-units scale of the reverberation-time nomograph in Fig. 2. Read the answer of 0.72 sec at the intersection of the straightedge with the reverberation-time scale.

Extending the Range

The range of the reverberation-time nomograph may be extended by multiplying the volume and time scales by the same factor, such as 10, or by multiplying the absorption scale by a factor such as 10 and the time scale by the factor's reciprocal, $1/10$.

The acoustical-absorption nomograph was designed by using acoustical coefficients for 512 cycles. For more accurate computations of reverberation time at other frequencies, acoustical coefficients for those frequencies should be employed. The effect of humidity should also be taken into consideration.

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(1) Philip M. Morse, "Vibration And Sound," McGraw-Hill Book Co., p 301.

WAVELENGTHS of SOUND

By BERTHA W. HENVIS

Velocity of Sound in Solids

Material	Longitudinal Bar Velocity in cm per sec	Plate (Bulk) Velocity in cm per sec
Aluminum	5.24x10 ⁵	6.4x10 ⁵
Antimony	3.40x10 ⁵	
Bismuth	1.79x10 ⁵	2.18x10 ⁵
Brass	3.42x10 ⁵	4.25x10 ⁵
Cadmium	2.40x10 ⁵	2.78x10 ⁵
Constantan	4.30x10 ⁵	5.24x10 ⁵
Copper	3.58x10 ⁵	4.6x10 ⁵
German Silver	3.58x10 ⁵	4.76x10 ⁵
Gold	2.03x10 ⁵	3.24x10 ⁵
Iridium	4.79x10 ⁵	
Iron	5.17x10 ⁵	5.85x10 ⁵
Lead	1.25x10 ⁵	2.4x10 ⁵
Magnesium	4.9x10 ⁵	
Manganese	3.83x10 ⁵	4.66x10 ⁵
Nickel	4.76x10 ⁵	5.6x10 ⁵
Platinum	2.80x10 ⁵	3.96x10 ⁵
Silver	2.64x10 ⁵	3.60x10 ⁵
Steel	5.05x10 ⁵	6.1x10 ⁵
Tantalum	3.35x10 ⁵	
Tin	2.73x10 ⁵	3.32x10 ⁵
Tungsten	4.31x10 ⁵	5.46x10 ⁵
Zinc	3.81x10 ⁵	4.17x10 ⁵

Cork	0.50x10 ⁵	
Crystals, quartz,		
X-cut	5.44x10 ⁵	5.72x10 ⁵
ADP (NH ₄ H ₂ PO ₄)		
45° Z-cut	3.28x10 ⁵	4.92x10 ⁵
Rochelle Salt,		
45° Y-cut	2.47x10 ⁵	
Rochelle Salt,		
45° X-cut	See Fig. 2	
Rochelle Salt,		
L-cut		5.36x10 ⁵
Tourmaline, Z-cut		7.54x10 ⁵
CaF ₂ (fluorite),		
X-cut	6.74x10 ⁵	7.18x10 ⁵
NaCl (Rock salt),		
X-cut	4.51x10 ⁵	4.78x10 ⁵
NaBr, X-cut	2.79x10 ⁵	3.2x10 ⁵
KCl (sylvite),		
X-cut	4.14x10 ⁵	4.38x10 ⁵
KBr, X-cut	3.38x10 ⁵	3.48x10 ⁵
Glass,		
heavy flint	3.49x10 ⁵	3.76x10 ⁵
extra light flint	4.55x10 ⁵	4.80x10 ⁵
heaviest crown	4.71x10 ⁵	5.26x10 ⁵
crown	5.30x10 ⁵	5.66x10 ⁵
quartz	5.37x10 ⁵	5.57x10 ⁵
Granite	3.95x10 ⁵	
Ivory	3.01x10 ⁵	
Marble	3.81x10 ⁵	
Slate	4.51x10 ⁵	
Wood, elm	1.01x10 ⁵	
oak	4.1x10 ⁵	

Velocity of Sound in Liquids

Material	Temperature in deg C	Velocity in cm per sec
Alcohol, ethyl	12.5	1.24x10 ⁵
	20	1.17x10 ⁵
Benzene	20	1.32x10 ⁵
Carbon bisulfide	20	1.16x10 ⁵
Chloroform	20	1.00x10 ⁵
Ether, ethyl	20	1.01x10 ⁵
Glycerine	20	1.92x10 ⁵
Mercury	20	1.45x10 ⁵
Pentane	18	1.05x10 ⁵
	20	1.02x10 ⁵
Petroleum	15	1.33x10 ⁵
Turpentine	3.5	1.37x10 ⁵
	27	1.28x10 ⁵
Water, fresh	17	1.43x10 ⁵
Water, sea	17	1.51x10 ⁵

Velocity of Sound in Gases

Material	Temperature in deg C	Velocity in cm per sec
Air	0	0.331x10 ⁵
	20	0.343x10 ⁵
Argon	0	0.319x10 ⁵
	300	0.307x10 ⁵
Ammonia gas	0	0.415x10 ⁵
Carbon dioxide	0	0.259x10 ⁵
Carbon monoxide	0	0.338x10 ⁵
Chlorine	0	0.206x10 ⁵
Deuterium (heavy hydrogen)	0	0.890x10 ⁵
Ethane	10	0.308x10 ⁵
Ethylene	0	0.317x10 ⁵
Hydrogen	0	1.28x10 ⁵
Hydrogen bromide	0	0.200x10 ⁵
Hydrogen chloride gas	0	0.296x10 ⁵
Hydrogen iodide	0	0.157x10 ⁵
Hydrogen sulfide	0	0.289x10 ⁵
Helium	0	0.97x10 ⁵
Methane	0	0.430x10 ⁵
Neon	0	0.435x10 ⁵
Nitric oxide	10	0.324x10 ⁵
Nitrogen	0	0.334x10 ⁵
	20	0.351x10 ⁵
Nitrous oxide	0	0.26x10 ⁵
Oxygen	0	0.316x10 ⁵
	20	0.328x10 ⁵
Sulphur dioxide	0	0.213x10 ⁵
Water vapor	0	0.401x10 ⁵
	100	0.405x10 ⁵

THE TABLES give the longitudinal bar and bulk velocities of sound in various solids, as well as the velocity of sound in some liquids and gases.

The effective velocity of sound, V , to be used in these calculations is a rather complex function of the exciting frequency and the shape and dimensions of the vibrating element. Very few three-dimensional elastic solid problems have been studied in detail, but the following comments may be used as a guide in obtaining an approximate value of the effective velocity in the elements of many vibrating systems.

For cylindrical elements of approximately circular or square cross-section, with free sides, the effective velocity varies with the ratio of diameter to wavelength as illustrated by Fig. 1A, where V_3 is the bulk velocity, V_1 is the long bar velocity and V_2 is the minimum velocity. For most metal backing materials the ratio V_2/V_1 is about 0.65.

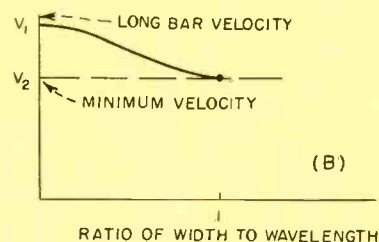
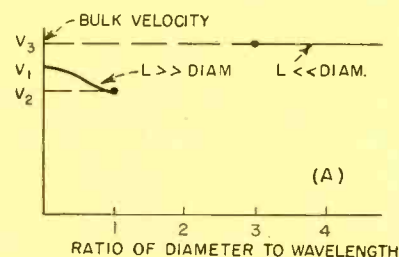


FIG. 1—Variation of velocity of sound with dimensional ratios of solids

The velocity of sonic or ultrasonic energy varies over a range of 50 to 1, depending on the medium. Once velocity is determined, by using the table below, the wavelength for any frequency from 10 cycles to 100 megacycles can be found on the nomograph

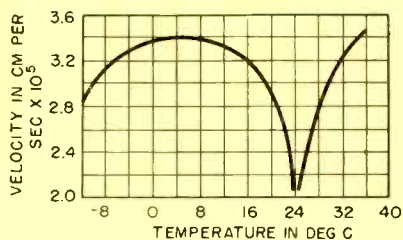


FIG. 2—Variation of longitudinal velocity in 45-degree X-cut Rochelle-salt crystal with temperature

For rectangular elements with free sides whose thickness is less than the width, the effective velocity for the element vibrating in extension (not thickness) varies with the ratio of width to wavelength as illustrated by Fig. 1B. Crystals are usually of such size that this curve is applicable. The ratio V_2/V_1 can be taken as equal to 0.8 for most of the cuts of crystals in general use.

Constraints on the sides of the cylindrical elements have the effect of increasing the ratio of diameter to wavelength. Similarly, constraining the sides of rectangular elements increases the effective ratio of width to wavelength.

The velocity for a zero diameter-to-wavelength ratio is the long bar velocity, and the velocity for an infinite diameter-to-wavelength ratio is the bulk (plate) velocity.

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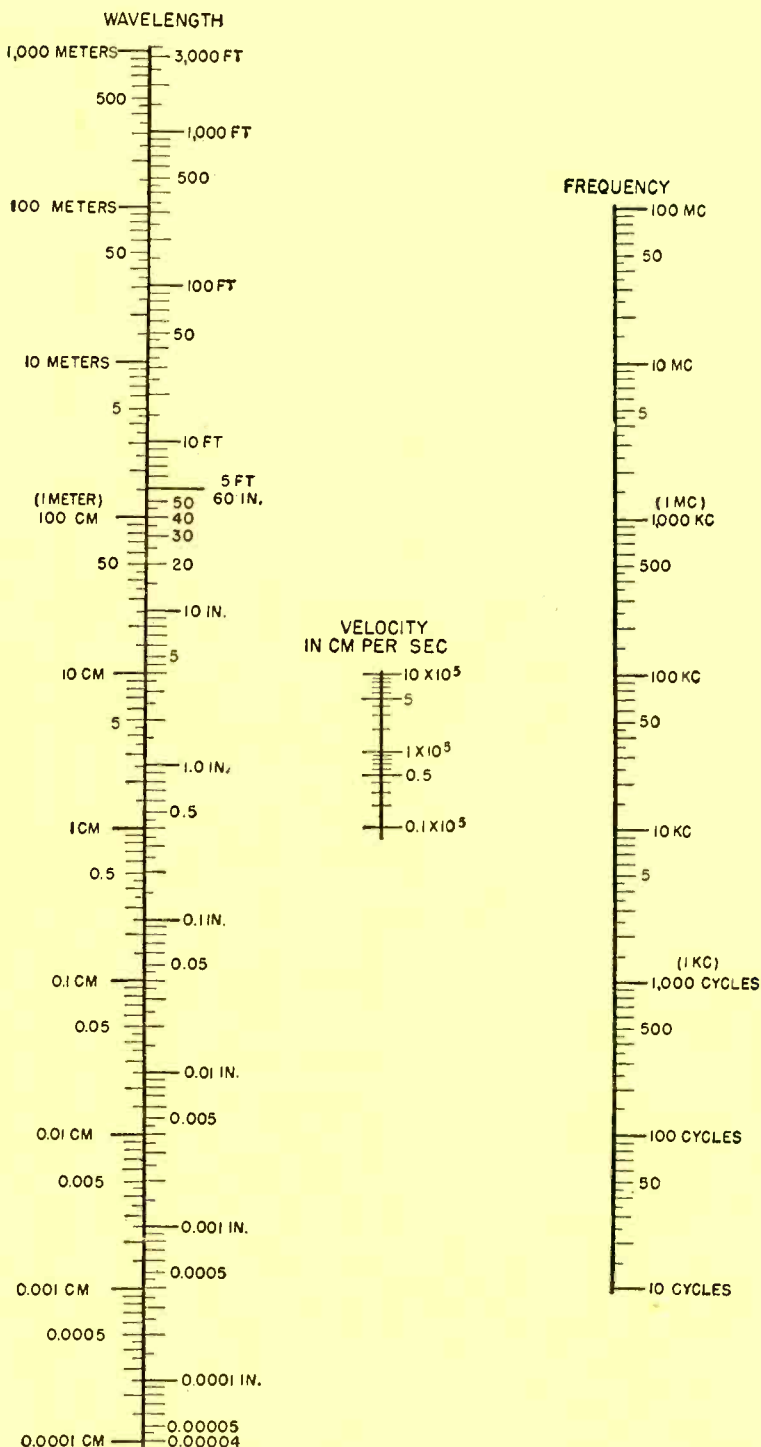


FIG. 3—Nomograph based on relation that velocity is equal to product of frequency and wavelength. When any two known values are connected by straightedge, intersection with third scale determines value sought

HIGH-PASS, LOW-PASS and BAND-PASS

Rearrangement of equations and accompanying charts permit design of multi-section filters with only two or at most three settings of a reactance slide rule. Filter component values are specified as functions of midband frequency and terminating impedance

By C. J. MERCHANT

MUCH of the drudgery in designing high-pass and low-pass filters for audio frequencies may be eliminated by the simple expedient described here.

The formulas for L and C in a single constant- k high-pass T-section are $L = R/4\pi f_0$ and $C = 1/\pi f_0 R$ where f_0 is the cut-

off frequency and R is the terminating resistance. A simple rearrangement of these expressions gives $2\pi(f_0/R)L = \frac{1}{2}$ and $1/2\pi(f_0/R)C = 1$, or, in other words, L is the inductance whose reactance at the frequency f_0/R is equal to $\frac{1}{2}$ ohm, and in a similar manner C is the capacitance whose reactance at the frequency

$f_0 R$ is found to be equal to 1 ohm.

The method can be extended to other types of sections, and a multisection filter can be designed with only two settings of a reactance slide rule, once at f_0/R for the inductances and once at $f_0 R$ for the capacitances. In multisection filters the sharpest cutoff consistent with high attenuation outside the pass band is realized by using terminating m -derived half-sections with $m = 0.6$, a full m -derived section with $m = 0.8$, and one or more constant- k sections.

Figure 1 gives the values of the reactances in ohms in such sections, the coils being evaluated at f_0/R and the capacitors at $f_0 R$.

For example, to design a three-section low-pass filter of T-sections with $R = 500$ ohms and $f_0 = 1,000$ cps, find on the slide rule that $f_0/r = 1,000/500$ or 2 cps. Also on the slide rule, find the inductance whose reactance at 2 cps is the value given in Fig. 1. Then determine $f_0 R$ to be $1,000 \times 500$ or 500 kc and find the capacitance whose reactance at 500 kc is the value given in Fig. 1. The complete filter and its attenuation characteristic are given in sections A and B of Fig. 2.

Low-pass or high-pass filters can be completely specified in terms of two quantities, the cutoff frequency and the terminating impedance. Band-pass filters introduce an additional

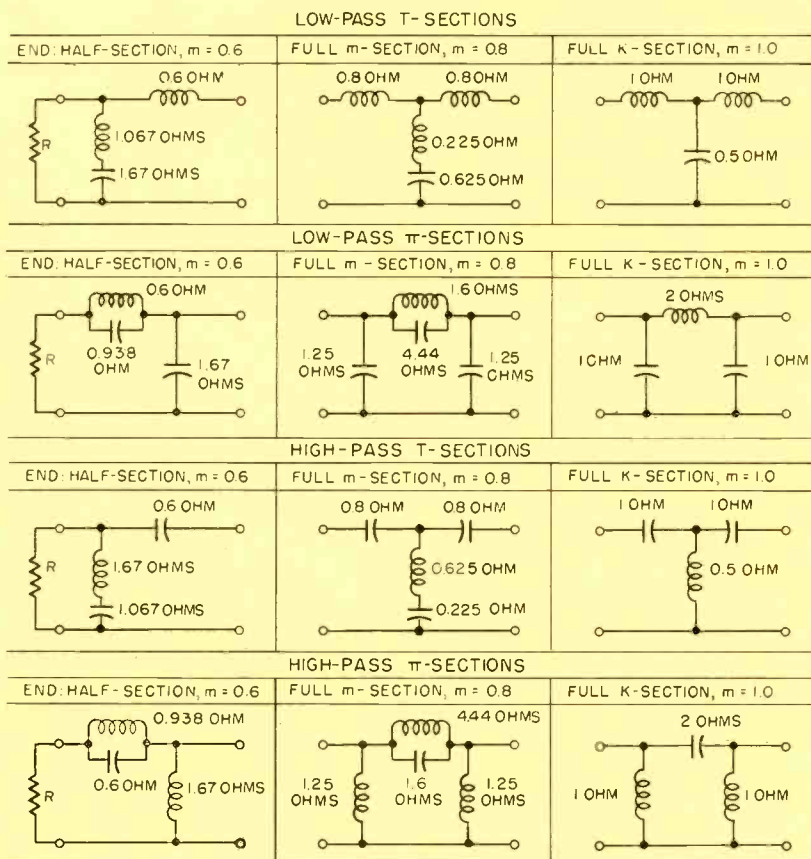


FIG. 1—Generalized impedance chart from which impedances are calculated by reactance slide rule if terminating impedance and cutoff frequency are given

FILTER DESIGN

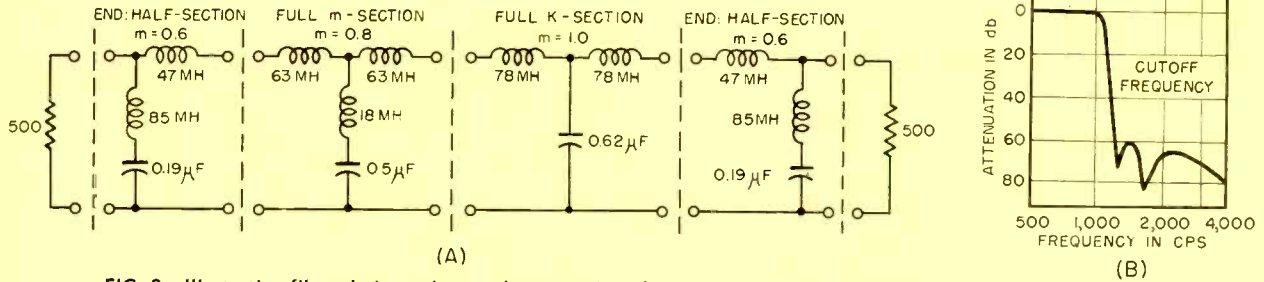


FIG. 2—Illustrative filter design values and attenuation characteristics of low-pass filter designed by use of Fig. 1

quantity, the bandwidth, and therefore require three quantities to specify their performance, but their calculation can be simplified by means of the technique used for low and high-pass filters.

The charts in Fig. 3 give the reactance constants, in ohms, of T and π band-pass sections in terms of the terminating impedance R , the upper cutoff frequency f_2 , and the midband frequency f_m , which is the geometric mean of the upper and lower cutoff frequencies and is given by $f_m = \sqrt{f_2 f_1}$.

For example, to design a 3-section filter of π -sections with cutoff frequencies at 770 cps and 1,300 cps and terminated in 1,000 ohms, find $f_m = \sqrt{770 \times 1,300} = 1,000$ cps first. Find $f_2/f_m = 1,300/1,000 = 1.30$. Then find $f_m/R = 1,000/1,000 = 1$ cps, and find the inductances whose reactances in ohms at 1 cps are the values given on the chart opposite $f_2/f_m = 1.30$. Then find $f_m/R = 1,000 \times 1,000 = 1$ mc and find the capacitances in like manner.

When f_2/f_m is greater than 1.50, the filter can be more economically designed by cascading low and high-pass sections whose pass bands overlap.

In specifying values for the actual filter design, elements appearing directly in parallel or in series after cascading should be combined.

BAND-PASS: T-SECTIONS

$(\frac{f_2}{f_m})$	END: HALF-SECTION, $m = 0.6$						FULL m-SECTION, $m = 0.8$						FULL K-SECTION, $m = 1.0$			
	X_L at $f = f_m/R$			X_C at $f = f_m/R$			X_L at $f = f_m/R$			X_C at $f = f_m/R$			X_L at $f = f_m/R$		X_C at $f = f_m/R$	
	L_1	L_2	L_3	C_1	C_2	C_3	L_1	L_2	L_3	C_1	C_2	C_3	L_1	L_2	C_1	C_2
1.05	6.12	20.4	22.1	6.12	22.1	20.4	8.15	4.23	4.98	8.15	4.98	4.23	10.2	0.049	10.2	0.049
1.10	3.16	9.87	12.7	3.16	12.7	9.87	4.21	2.04	2.78	4.21	2.78	2.04	5.26	0.095	5.26	0.095
1.15	2.14	6.49	9.20	2.14	9.20	6.49	2.86	1.31	2.04	2.86	2.04	1.31	3.57	0.140	3.57	0.140
1.20	1.63	4.72	7.40	1.63	7.40	4.72	2.17	0.935	1.73	2.17	1.73	0.935	2.72	0.183	2.72	0.183
1.25	1.33	3.70	6.48	1.33	6.48	3.70	1.78	0.736	1.53	1.78	1.53	0.736	2.22	0.225	2.22	0.225
1.30	1.11	3.03	5.80	1.11	5.80	3.03	1.48	0.588	1.41	1.48	1.41	0.588	1.88	0.265	1.88	0.265
1.35	0.984	2.56	5.42	0.984	5.42	2.56	1.31	0.506	1.34	1.31	1.34	0.506	1.64	0.304	1.64	0.304
1.40	0.876	2.22	5.12	0.876	5.12	2.22	1.17	0.438	1.30	1.17	1.30	0.438	1.46	0.342	1.46	0.342
1.45	0.792	1.96	4.95	0.792	4.95	1.96	1.06	0.385	1.27	1.06	1.27	0.385	1.32	0.380	1.32	0.380
1.50	0.720	1.75	4.71	0.720	4.71	1.75	0.96	0.340	1.25	0.96	1.25	0.340	1.20	0.417	1.20	0.417

BAND-PASS: π -SECTIONS

$(\frac{f_2}{f_m})$	END: HALF-SECTION, $m = 0.6$						FULL m-SECTION, $m = 0.8$						FULL K-SECTION, $m = 1.0$			
	X_L at $f = f_m/R$			X_C at $f = f_m/R$			X_L at $f = f_m/R$			X_C at $f = f_m/R$			X_L at $f = f_m/R$		X_C at $f = f_m/R$	
	L_1	L_2	L_3	C_1	C_2	C_3	L_1	L_2	L_3	C_1	C_2	C_3	L_1	L_2	C_1	C_2
1.05	0.045	0.049	0.163	0.049	0.045	0.163	0.236	0.201	0.123	0.201	0.236	0.123	20.4	0.098	20.4	0.098
1.10	0.079	0.101	0.316	0.101	0.079	0.316	0.490	0.360	0.238	0.360	0.490	0.238	10.5	0.190	10.5	0.190
1.15	0.109	0.154	0.467	0.154	0.109	0.467	0.763	0.490	0.350	0.490	0.763	0.350	7.14	0.280	7.14	0.280
1.20	0.135	0.212	0.613	0.212	0.135	0.613	1.07	0.578	0.461	0.578	1.07	0.461	5.44	0.367	5.44	0.367
1.25	0.154	0.270	0.750	0.270	0.154	0.750	1.36	0.653	0.562	0.653	1.36	0.562	4.44	0.450	4.44	0.450
1.30	0.172	0.330	0.900	0.330	0.172	0.900	1.70	0.709	0.675	0.709	1.70	0.675	3.76	0.531	3.76	0.531
1.35	0.184	0.391	1.02	0.391	0.184	1.02	1.98	0.746	0.746	0.746	1.98	0.746	3.28	0.609	3.28	0.609
1.40	0.195	0.450	1.14	0.450	0.195	1.14	2.28	0.769	0.855	0.769	2.28	0.855	2.92	0.685	2.92	0.685
1.45	0.202	0.510	1.26	0.510	0.202	1.26	2.60	0.787	0.943	0.787	2.60	0.943	2.64	0.760	2.64	0.760
1.50	0.212	0.572	1.39	0.572	0.212	1.39	2.94	0.800	1.04	0.800	2.94	1.04	2.40	0.834	2.40	0.834

FIG. 3—Generalized impedance tables from which filter impedances are quickly calculated if the upper cutoff frequency, midband frequency and terminating impedance of a band-pass filter are all known. These dimensionless impedance tables are obtained by specifying filter component values as functions of midband frequency and terminating impedance for various values of the ratio of upper to midband frequency

DESIGN OF T PADS

Graphs for determining resistance of the three elements of dissymmetrical T-pad networks facilitate design of pads having attenuation of as much as 25 db, and impedance mismatch ratios up to 5 to 1. Graphs apply to symmetrical pads with matched loads

IN radio and communications work the necessity for pads or attenuators of definite electrical loss and definite terminal impedance often arises. It is the purpose here to facilitate the design and construction of such pads of symmetrical or dissymmetrical T configuration, through simple, rapid, graphical methods, without making necessary recourse to the usual mathematical design equations.

In the following discussion a and b will refer to the series impedances and c the shunt impedance of the three-element T network. As pads with elements other than pure resistances are seldom encountered, only the case of a pure resistance network will be discussed, although the symbol Z will be used. If a balanced pad is desired, it is necessary merely to place half of the value of a and half of the value of b in the two lower branches of the pad.

Three individual graphs are given in Fig. 1, one for each of the impedance elements in a T network. Each graph contains a family of curves, one for each of several different values of attenuation or loss in decibels. The family of curves is plotted to show the normalized resistance (for the element a , b or c of the T for which the curve applies) as ordinates, against the ratio of impedance transformation as abscissa. Since the curves are plotted for the normalized impedance of 1 ohm, the resistances found from the curves must be multiplied by the actual impedance value of the input circuit to obtain the true values of resistance for the elements of the de-

By **EDWIN Y. WEBB, Jr.**

sired T network. By plotting normalized impedances, only one set of curves is required no matter what the impedance value may be. It should be noted that while the curves are plotted for a dissymmetrical T network, which is useful in matching unequal impedances, the curves are equally useful for the symmetrical T network for matching equal impedances since in the latter case the impedance transformation is 1/1, and a and b are equal.

The graphs can be used for any impedance ratio normally encountered in practice. If an impedance ratio less than 1 is encountered, the T network can be reversed, for purposes of analysis, to obtain a transformation ratio greater than 1. The curves can of course be used for uneven ratios, such as 2.5/1 or 3.7/1. The curves can likewise be used for symmetrical T pads, for in this case the terminal impedances Z_1 and Z_2 will be alike. The network impedances a and b will also be alike, and hence we need only use the curves for determining two separate constants a and c . The curves are plotted more accurately than the accuracy of commercial resistors, and consequently errors involved from the graphical design method will be negligible for ordinary purposes. Care should be exercised in reading the curves, however, to ascertain that the scales are not misinterpreted.

Note that the actual values of

Z_1 and Z_2 (the terminal impedances) do not affect in any way whatever the values used in plotting the curves as only their ratios were used. Therefore, for a 10-db pad with terminal impedances of 5 and 10 ohms the identical points on the curves will be used as if the terminal impedances were 300 and 600 ohms, as in both cases the ratio of Z_2 to Z_1 is 2 to 1.

The loss of the pad is obtained by calculating the ratio of the power transferred from Z_1 to Z_2 with the pad in the circuit and again with the pad removed from the circuit. Assuming 1 volt applied, and impedances of 100 and 200 ohms, the power transferred when the pad is out of the circuit is

$$P_o = I^2 R = \left(\frac{1}{300}\right)^2 \times 200$$

With the pad in the circuit, the power absorbed by Z_2 is

$$\begin{aligned} P_1 &= I^2 R \\ &= \left[\left(\frac{1}{200}\right) \left(\frac{99.2}{200 + 145 + 99.2}\right) \right]^2 \times 200 \\ &= \left[\left(\frac{1}{200}\right) \left(\frac{99.2}{444.2}\right) \right]^2 \times 200 \end{aligned}$$

The loss in decibels is then

$$\begin{aligned} db &= 10 \log_{10} (P_o/P_1) \\ &= 10 \log_{10} \frac{\left(\frac{1}{300}\right)^2 \times 200}{\left[\left(\frac{1}{200}\right) \left(\frac{99.2}{444.2}\right) \right]^2 \times 200} \\ &= 10 \log_{10} \left[\frac{200}{300} \left(\frac{444.2}{99.2}\right) \right]^2 \\ &= 9.5 \text{ db.} \end{aligned}$$

Hence, the terminal impedances as calculated from the graphs are correct. The loss of the network is actually 9.5 db instead of the 10 db for which it is designed, but the error is sufficiently small to be neglected for nearly all practical purposes.

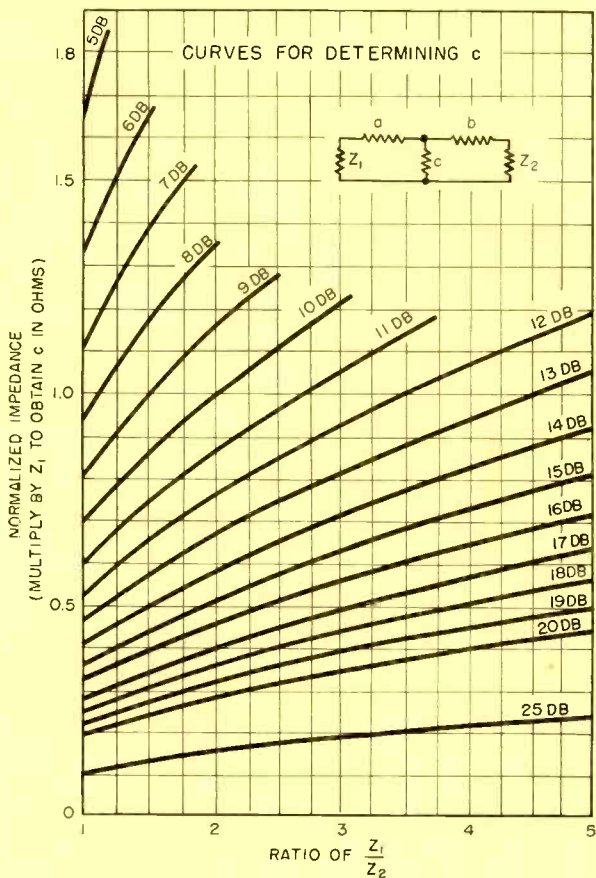
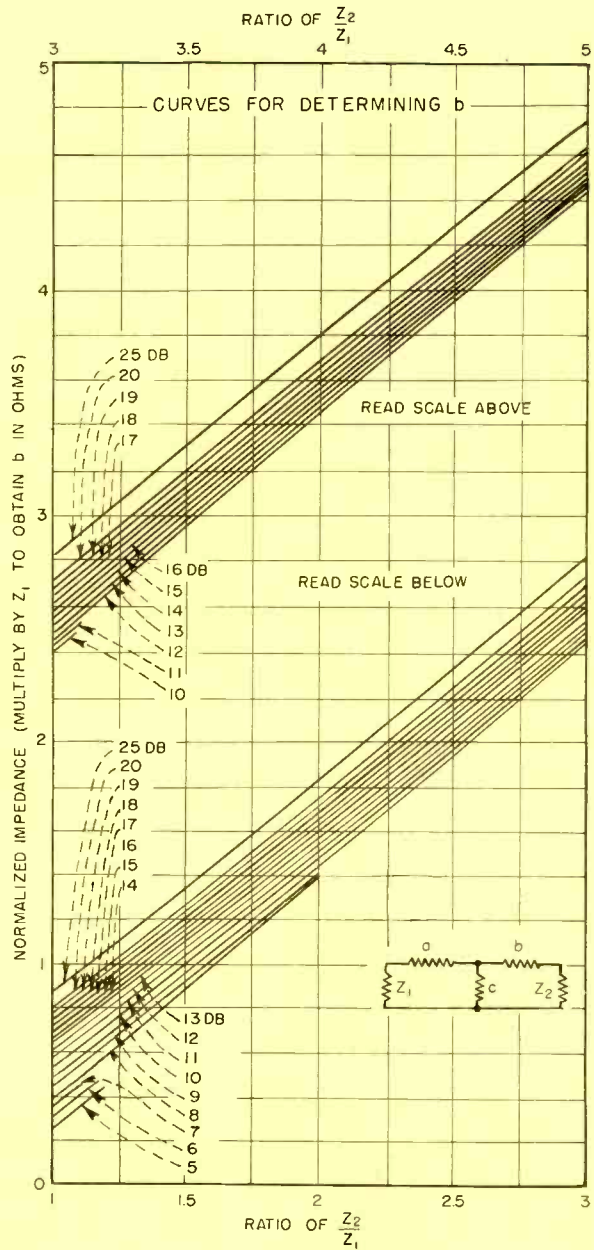
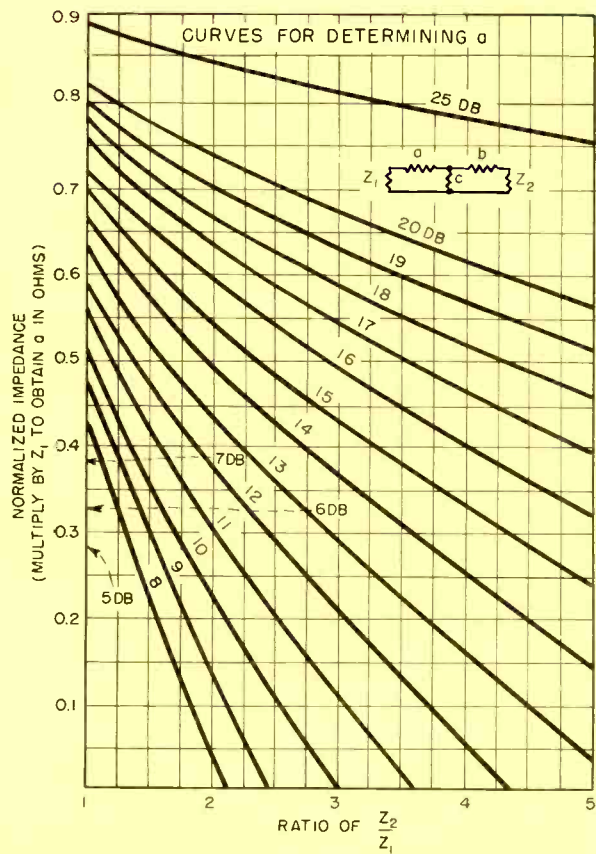
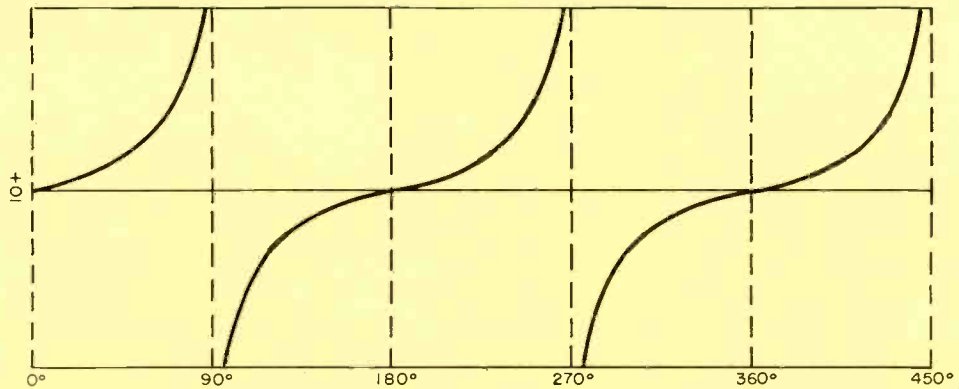


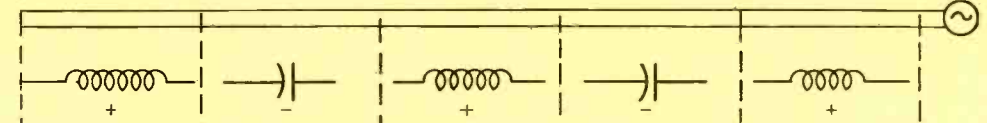
FIG. 1—To use the graphs it is necessary to know: (1) the attenuation or loss, in decibels, which the network is to provide; (2) the impedance Z_1 from which power is fed to the T attenuator, and (3) the impedance Z_2 into which the T network feeds. The first condition specifies the network loss, and hence indicates which curve of the three families is to be selected for any particular problem. The second and third conditions determine the impedance transformation ratio, and hence determine at what point on the abscissa the graph is entered. From this point of entry, project vertically upward until the desired curve is reached; then project to the left and read the normalized resistance for the specified conditions for the element for which the chart applies. Multiply this reading by Z_1 to obtain the true resistance of the element for the specified conditions

CHARACTERISTICS OF RESONANT

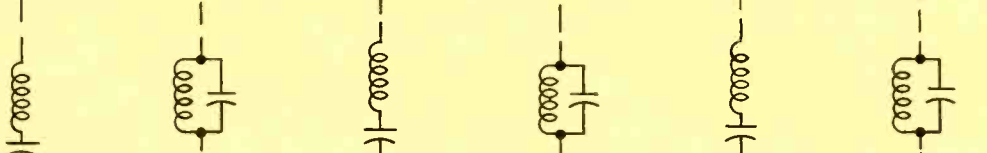
TANGENT CURVES INDICATING REACTANCE OF LINE



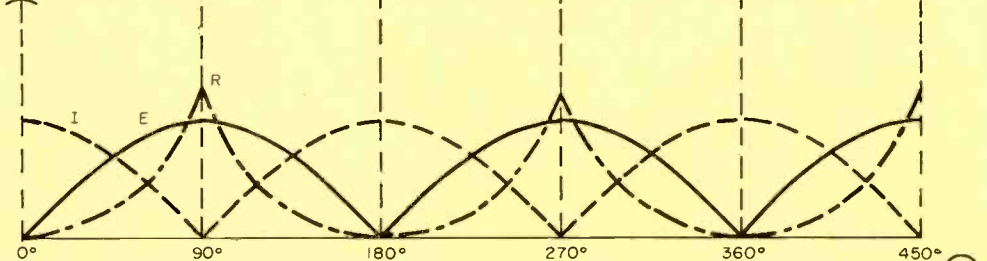
REACTANCE CHARACTERISTIC FOR EACH 90-DEG SECTION OF LINE



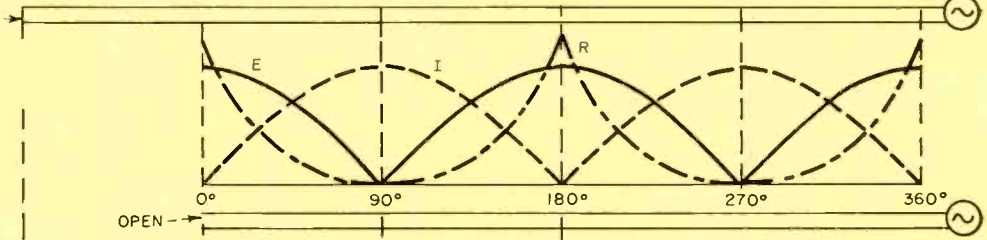
RESONANT PROPERTIES FOR LINE OF EXACT QUARTER-WAVE INTERVALS. LINE ACTS LIKE ALTERNATE SERIES AND PARALLEL RESONANT CIRCUITS



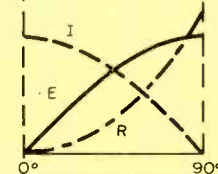
RESISTANCE AND VOLTAGE AND CURRENT DISTRIBUTION ALONG LINE SHORTED AT FAR END



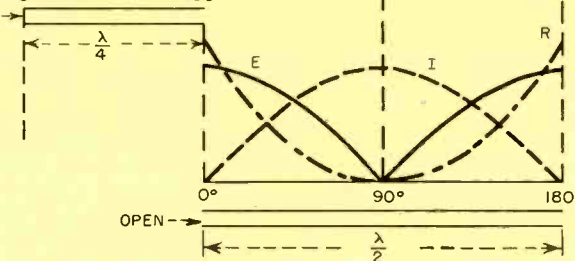
RESISTANCE AND VOLTAGE AND CURRENT DISTRIBUTION ALONG LINE OPEN AT FAR END



RESISTANCE AND VOLTAGE AND CURRENT DISTRIBUTION ALONG QUARTER-WAVE LINE SHORTED AT FAR END



RESISTANCE AND VOLTAGE AND CURRENT DISTRIBUTION ALONG HALF-WAVE LINE OPEN AT FAR END



TRANSMISSION LINES

Voltage, current and resistance along ideal or low-loss resonant lines are conveniently portrayed, together with equivalent resonant circuit at quarter-wave sections and reactance for other lengths of open or shorted lines

THE important part which transmission lines play in modern radio communication makes it useful to have available in compact form for ready reference a graphical interpretation of the behavior of such lines. For simplicity of presentation, the curves and diagrams have been plotted on the assumption that the lines are free from losses. The presence of a slight amount of attenuation will not appreciably affect the general shape of the curves, and hence the diagrams are useful for many practical applications as well as for the ideal loss-free case. If the line has appreciable attenuation, however, the curves given here must be modified slightly to apply to actual conditions.

In drawing the curves, the line is assumed to be fed from a generator whose output impedance is equal to the characteristic impedance of the line. With this stipulation, the wave is absorbed and dissipated and is not reflected from the sending end. The curves are drawn for lines whose distant ends are open or shorted, corresponding to infinite and zero resistance termination at the far end.

All of the data for which the chart has been compiled are available at a glance. For example, the length of line required to produce a high impedance, a low impedance, an inductive reactance or a capacitive reactance are directly evident.

Reading from top to bottom, the chart shows the following data for transmission lines:

The reactance curves for lines of any length. While the curves shown apply for lines whose length is one wavelength or less,

By J. B. EPPERSON

the curves are periodically repetitive, and hence may be extended to lines of any length. For lines longer than one wavelength, it is convenient to determine the line characteristics by subtracting an integral number of wavelengths from the line. The remaining length of line will then be less than one wave in length, and its characteristics may then be determined from the graphs.

The electrical equivalent reactance for lines of various lengths between exact multiples of a quarterwave line. When the reactance curve is positive, the electrical equivalent reactance is inductive, whereas it is capacitive for lines of such length that the reactance curve is negative. The ideal line, free from attenuation, behaves either as a pure inductive reactance or as a pure capacitive reactance within any given quarterwave section. Actual lines, in which some attenuation is present, will also show a resistive component as well as the reactive component, but this is not indicated on the diagram.

The resonant circuit characteristics of the line at exactly each quarter wavelength. The ideal line behaves as a series resonant circuit and as a parallel resonant circuit alternately every quarter of a wave long. In the ideal case the line has zero resistance when the series resonant circuit is used to represent it, and has infinite impedance for those quarter-wavelengths for which it behaves as a parallel resonant circuit. Actu-

ally, real physical lines have more than zero and less than infinite resistance at these points. The line is resonant at 90-degree intervals for both open and shorted cases, and for quarter-wave intervals the line behaves alternately as a series and as a parallel resonant circuit.

The resistance and the voltage and current distribution for open and shorted lines. For convenience the resistance curve is plotted along with the voltage and current distribution along the length.

For the shorted line, the graphs show that, as measured from the shorted end, the line acts first as an inductance for the first quarter-wave section, then as a capacitance for the next quarter-wave section, and so on, alternately for each 90-degree interval.

For the open-end line, the graph shows that, as measured from the open end, the line acts first as a capacitance and then as an inductance, alternately, for each quarter-wave section.

The quarter-wave diagram near the bottom of the charts show that a quarter-wave section of line may be considered as a tuned circuit. If the line is slightly less than a quarter-wave, it will present inductive reactance, whereas if it is slightly longer than a quarter-wave, the section will assume the characteristics of a capacitance.

In a similar manner, the lowest diagram shows that a half-wave line may be considered as a tuned circuit element. If the line is slightly less than a half-wave long, its reactance will be inductive, whereas the reactance will be capacitive if the line is slightly longer than a half-wave.

TEN R-F TRANSMISSION LINE

Ten equations commonly used to compute relationships between electrical and mechanical properties of radio-frequency transmission lines have been converted to convenient nomographs covering both two-wire and coaxial lines for frequencies up to 20,000 mc

By PHILLIP H. SMITH

TEN of the most useful transmission-line equations have been plotted as nomographs as a convenience to the radio engineer. The derivation of the formulas is based upon certain simplifying assumptions which are generally considered justifiable for r-f lines.

1. *Characteristic Impedance of Transmission Lines.* For radio-frequency transmission lines where the losses per wavelength are relatively small, the characteristic impedance is essentially a pure resistance. The characteristic impedance is numerically equal to the square root of the ratio of the distributed inductance to the distributed capacitance per unit length. Since both of these parameters are uniquely related to the physical size and spacing of the conductors, it is possible to express the characteristic impedance in terms of the physical dimensions of the line.

Thus, the characteristic impedance Z_0 in ohms of an open 2-wire line is

$$Z_0 = 276 \log_{10} (2D/d) \quad (1)$$

where D is the wire separation on centers and d is the wire diameter, both in the same units. Figure 1 shows the characteristic impedance of an open 2-wire line as a function of the conductor dimensions and their center-line spacing.

2. *Characteristic Impedance of a Coaxial Line.* The characteristic impedance Z_0 in ohms of a coaxial transmission line is

$$Z_0 = 138 \log_{10} (D/d) \quad (2)$$

where D is the inner diameter of

the outer conductor and d is the outer diameter of the inner conductor. This applies only to a line where the medium between conductors is predominantly a gas, such as air, at low pressures.

If the coax line is filled with a uniform dielectric material other than a low-pressure gas, the characteristic impedance is reduced by a factor equal to $1/k^2$, where k is the relative dielectric constant of the material. For a line with bead insulators at small uniform intervals, the

effective dielectric constant k_e may be computed from

$$k_e = (kt + s)/(t + s) \quad (2a)$$

where t is the thickness of one bead and s is the spacing between two beads, both t and s being in the same units, and k is the relative dielectric constant of the bead.

A number of optimum values for the characteristic impedance of coaxial lines exist which are based upon different considerations such as the maximum power handling capability and

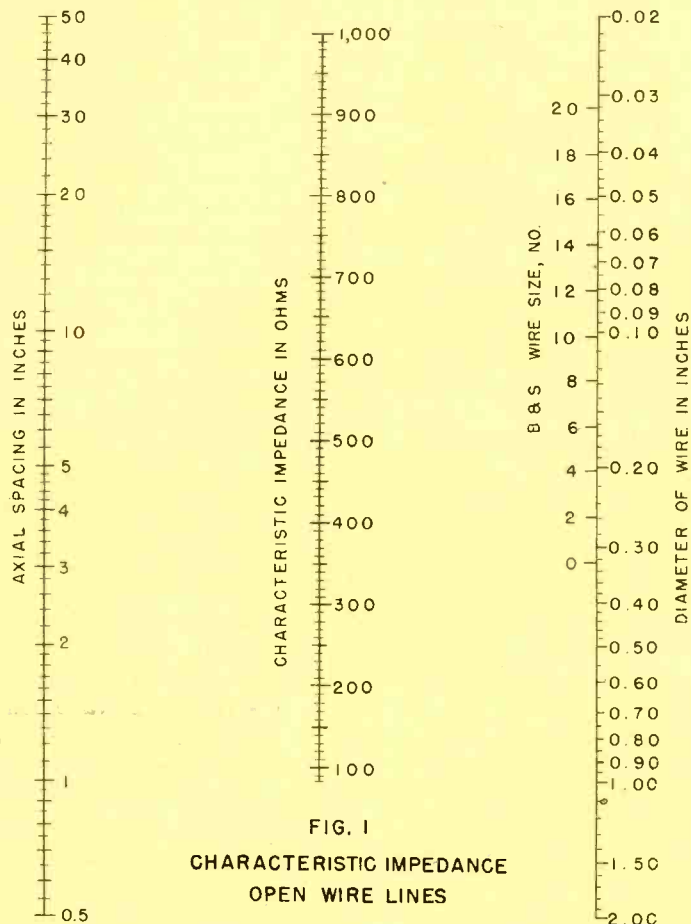


FIG. 1
CHARACTERISTIC IMPEDANCE
OPEN WIRE LINES

NOMOGRAPHS

the minimum loss. Several of these optimum values are indicated along the characteristic impedance scale on the right-hand side of the nomograph. Fortunately, all of these optimum values are relatively broad in their characteristics and a considerable departure can generally be tolerated for any particular application.

Figure 2 shows the characteristic impedance of a gas dielectric coaxial transmission line as a function of the two conductor diameters.

3. *High-Frequency Resistance of a Coaxial Line.* The high-frequency resistance of a coaxial transmission line is one of the principal factors which determine the attenuation along the line. It is also one of the factors which determine the maximum anti-resonant imped-

ance and the minimum resonant impedance of a line section when used as a circuit element. The high-frequency resistance of a coaxial line is a function of both conductor dimensions and of the frequency (due to skin effect). It is also a function of the resistivity of the material of which the conductors are made.

For copper coaxial lines the high-frequency loop resistance R in ohms per 1,000 feet is

$$R = 0.0315 f^{1/2} \left[\frac{1}{d} - \frac{1}{D} \right] \quad (3)$$

where f is the frequency in kilocycles, D is the inner diameter of the outer conductor in inches, and d is the outer diameter of the inner conductor in inches.

For conductors other than copper, the high-frequency resistance is proportional to the square root of the ratio of the

resistivity of the conductor to that of copper.

Figure 3 shows the resistance of a copper coaxial line as a function of the conductor dimensions and the frequency. Dielectric losses, which are negligible in a gas dielectric line, are not included.

The nomograph in Fig. 3 is used as follows: draw a straight line connecting points on the first and fourth scales from the left, which show, respectively, the line conductor diameters. Obtain the intersection of this line with the second scale, marked Size Factor. Now project this intersection to a corresponding point on the third scale, marked Pivot Line, as shown in the example on the nomograph. Finally, connect this new pivot point with a straight line intersecting the desired value on the sixth or frequency scale. The intersection of this latter straight line with the scale marked Resistance in ohms per 1,000 feet gives the desired loop resistance value.

4. *Conversion of Loss Resistance to Decibels Attenuation per Unit Length.* It is sometimes convenient to convert loop resistance of a transmission line (as obtained from Fig. 3) to decibels (db) per unit length. This may be done if the characteristic impedance of the line is known. The conversion equation is simply

$$\text{db} = R/0.23025 Z_0 \quad (4)$$

where R is the loop resistance and Z_0 is the characteristic impedance. This relationship is plotted on the nomograph of Fig. 4. The nomograph applies to either open-wire or coaxial lines and does not require the line conductors to be of copper.

5. *Antiresonant Impedance of a Transmission Line Section.* The antiresonant impedance Z_{AR} of a transmission line section either open or short-circuited at its far end is a function of the

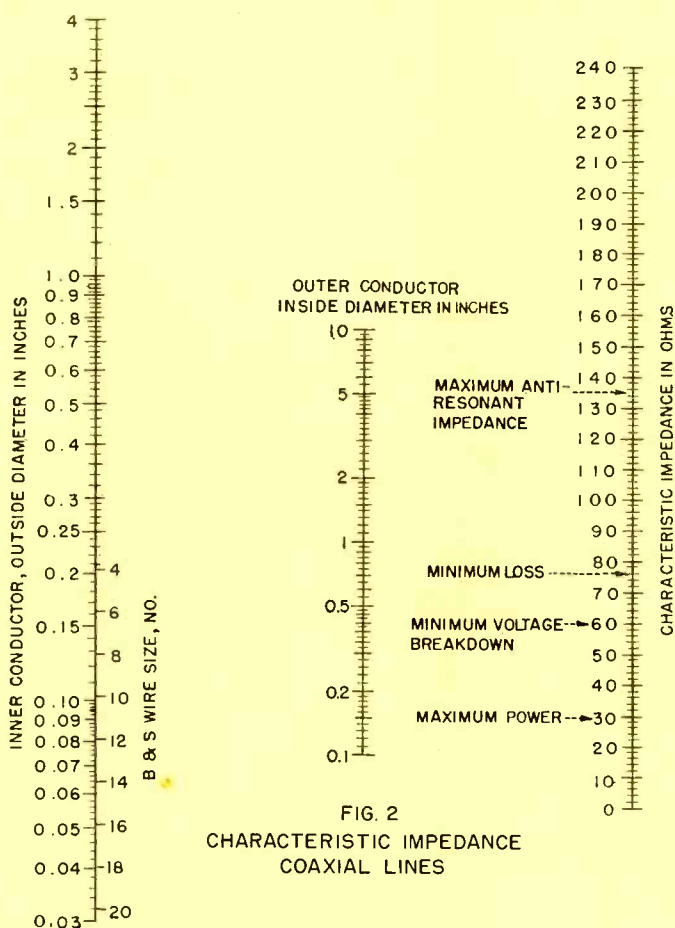


FIG. 2
CHARACTERISTIC IMPEDANCE
COAXIAL LINES

Ten R-F Transmission Line Nomographs (continued)

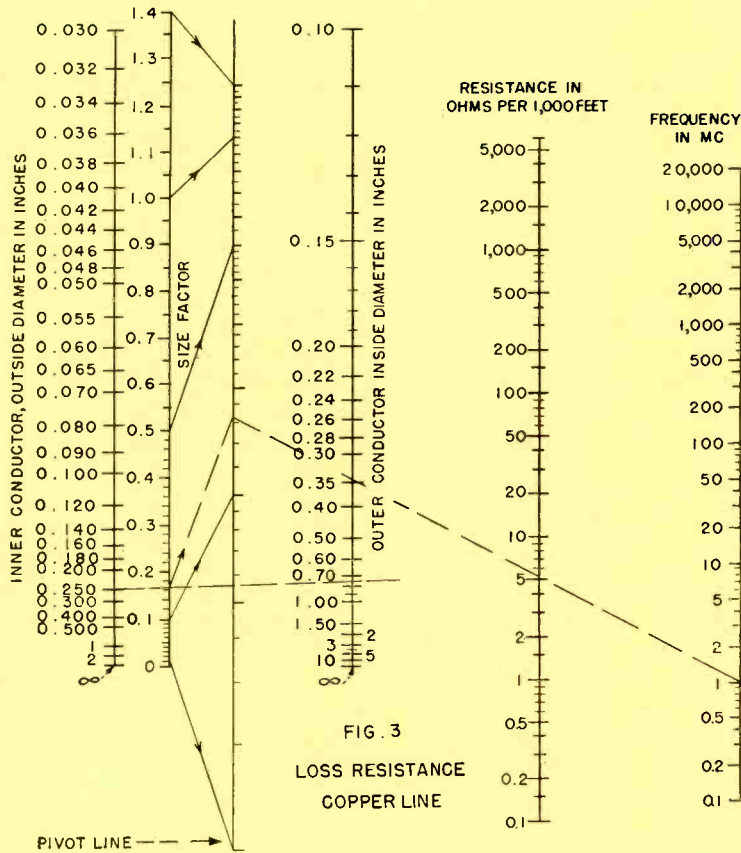


FIG. 3
LOSS RESISTANCE
COPPER LINE

total conductor resistance and the characteristic impedance of the section. The relationship is

$$Z_{AR} = 2 Z_0^2 / R \quad (5)$$

where Z_0 is the characteristic impedance and R is the resistance of the antiresonant line section.

The shortest antiresonant line section is one-quarter wavelength long (short-circuited at its far end) and accordingly this will have the highest antiresonant impedance. A line section one-half wavelength long (open-circuited at the far end) will have only half as high an antiresonant impedance because its resistance R is twice as great.

Figure 5 shows the antiresonant impedance of a transmission line as a function of the total resistance and the characteristic impedance of the section. The nomograph applies equally to either coaxial or open-wire lines.

The resonant impedance of a transmission-line section is simply one-half of its total resistance (obtained from Fig. 3); accordingly, no nomograph has been plotted for this.

6. Input Reactance of a Transmission-Line Section. A short length of transmission line is sometimes used as a reactance element in high-frequency circuits. The input reactance is a function of the electrical length of the line section and its characteristic impedance. The reactance varies between values essentially equivalent to plus and minus one half of the antiresonant impedance (obtained from Fig. 5). In air or gas dielectric coaxial lines, the electrical length is very nearly the same as the physical length measured in terms of free space wavelengths. A dielectric other than a gas results in a reduction in the length of the wave in the line which is proportional to the square root of the average dielectric constant. Thus a polyethylene coaxial cable with a dielectric constant of 2.5 will be electrically $(2.5)^{1/2}$ or 1.6 times as long as if the dielectric were a gas.

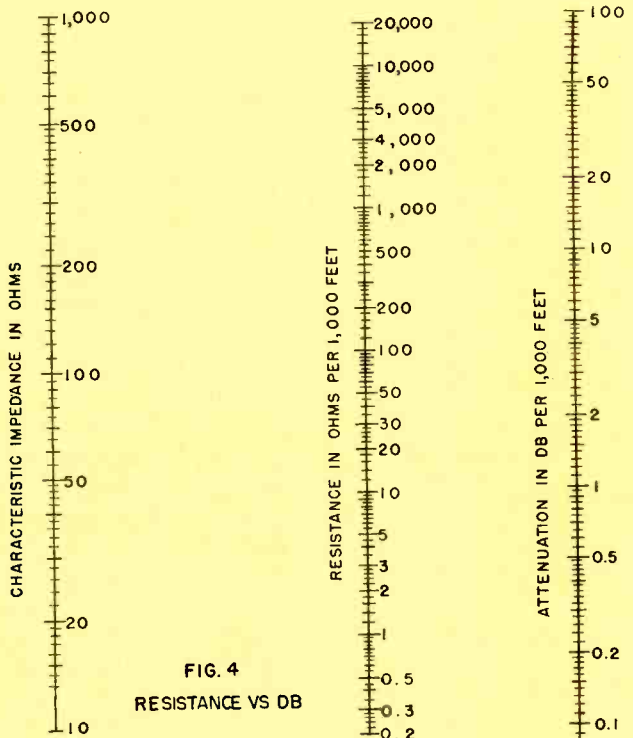


FIG. 4
RESISTANCE VS DB

The electrical length and the characteristic impedance of a line section as well as its termination (either open circuit or short circuit) determine the magnitude and sign of the input reactance. For an open-wire or coaxial line section, open-circuited at its far end, the input reactance X_i in ohms is

$$X_i = -Z_0 \cot(360 l/\lambda) \quad (6)$$

where l/λ is the electrical length in wavelengths and Z_0 is the characteristic impedance.

For an open-wire or coaxial line section, short circuited at its far end, the input reactance X_i in ohms is

$$X_i = Z_0 \tan(360 l/\lambda) \quad (6a)$$

Figure 6 shows the input reactance of an open or short-circuited transmission-line section as a function of the electrical length, the characteristic impedance and the termination.

7. *Quarter-Wave Transmission-Line Impedance Transformers.* Impedance transformers are often made along radio-frequency transmission lines by employing a quarter-wave section of transmission line of selected characteristic impedance as an impedance transformer. When such a line section is terminated in a pure resistance its input impedance will be a pure resistance which depends upon the load resistance value and the value of the characteristic impedance of the quarter-wave line section.

Figure 7 shows the input resistance R_i in ohms of a quarter-wave open-wire or coaxial line section terminated in a pure resistance load. The relationship is

$$R_i = Z_0^2/R_l \quad (7)$$

where R_l is the terminating resistance and Z_0 is the characteristic impedance.

8. *Current-Phase Relationship Along a Transmission Line.* The phase relationship of the current from point to point along a radio-frequency transmission line will be uniform with length only when the line is terminated in an impedance equivalent to its characteristic impedance;

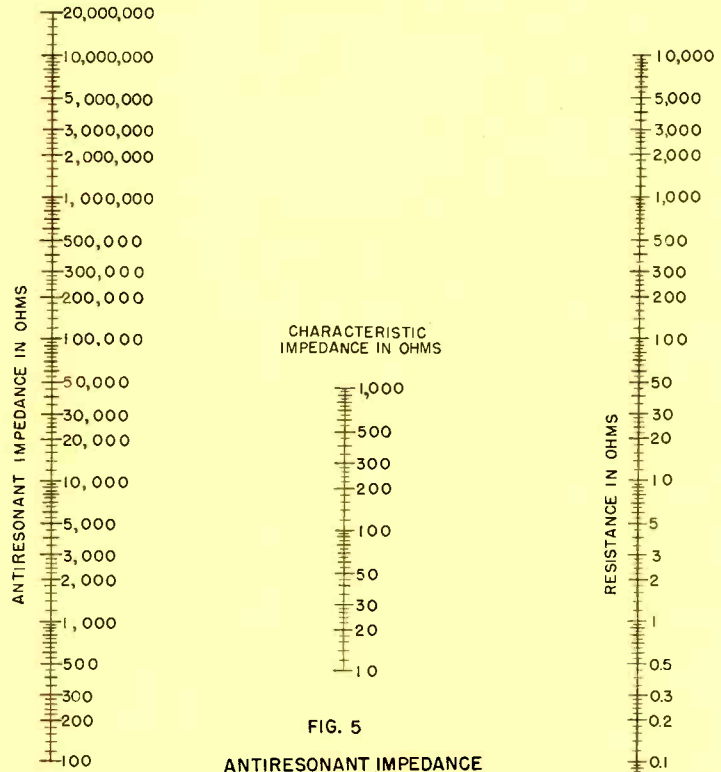


FIG. 5

ANTIRESONANT IMPEDANCE

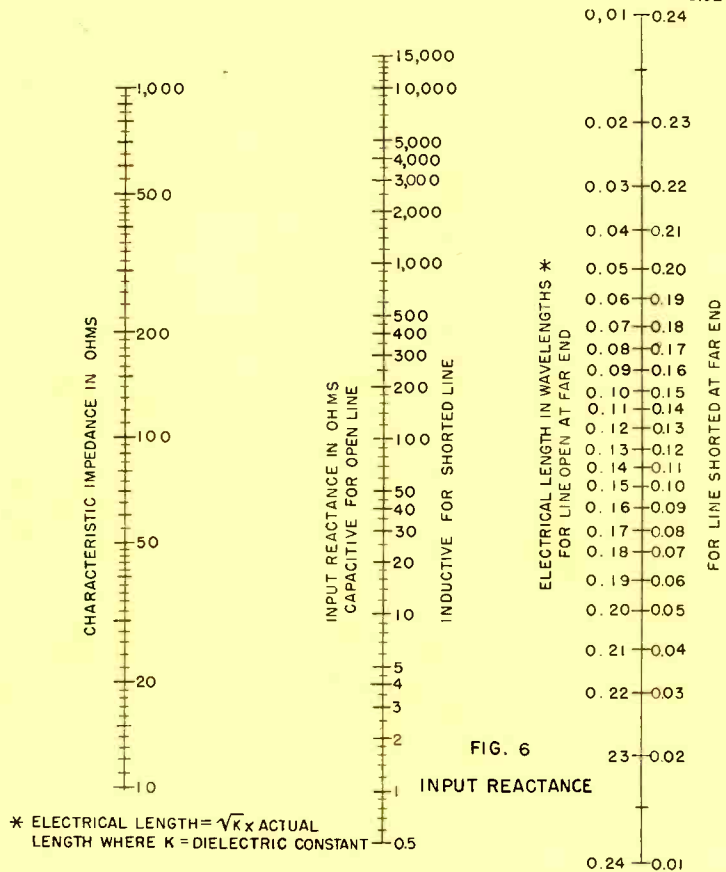


FIG. 6

INPUT REACTANCE

Ten R-F Transmission Line Nomographs (continued)

otherwise the phase will vary nonuniformly along the line.

Figure 8 shows the phase relationship of the current at the sending end of a line, with respect to the current in a resistance load, as a function of the ratio of the load resistance to the characteristic impedance of the line, and of the effective length of line. The relationship giving line length in degrees is

$$\phi = \arctan \left[\frac{R_l}{Z_0} \tan \left(360 \frac{l}{\lambda} \right) \right] \quad (8)$$

where R_l is the load resistance, Z_0 is the characteristic impedance and l/λ is the electrical length in wavelengths.

The current in the load will always lag the current at the sending end of a transmission line. It will undergo exactly 180 degrees of phase shift in each electrical halfwave length regardless of the ratio of the load resistance to the characteristic impedance.

9. Voltage Gradient along a Coaxial Line. In a coaxial transmission line the maximum voltage gradient occurs at the surface of the inner conductor. When this gradient exceeds the critical value of approximately 20,000 volts (rms) per cm, breakdown will occur in the form of either corona or arcover. If the characteristic impedance of the line is less than the optimum breakdown value of 60 ohms, arcover will occur without corona; if it is more than 60 ohms, corona will precede arcover.

Figure 9 shows the maximum voltage gradient G_{max} in rms volts per cm on a coaxial line as a function of the characteristic impedance of the line, the physical size of the inner conductor and the applied voltage. The relationship is

$$G_{max} = 47.2E/dZ_0 \quad (9)$$

where E is the applied rms voltage, d is the diameter of the inner conductor in inches, and Z_0 is the characteristic impedance.

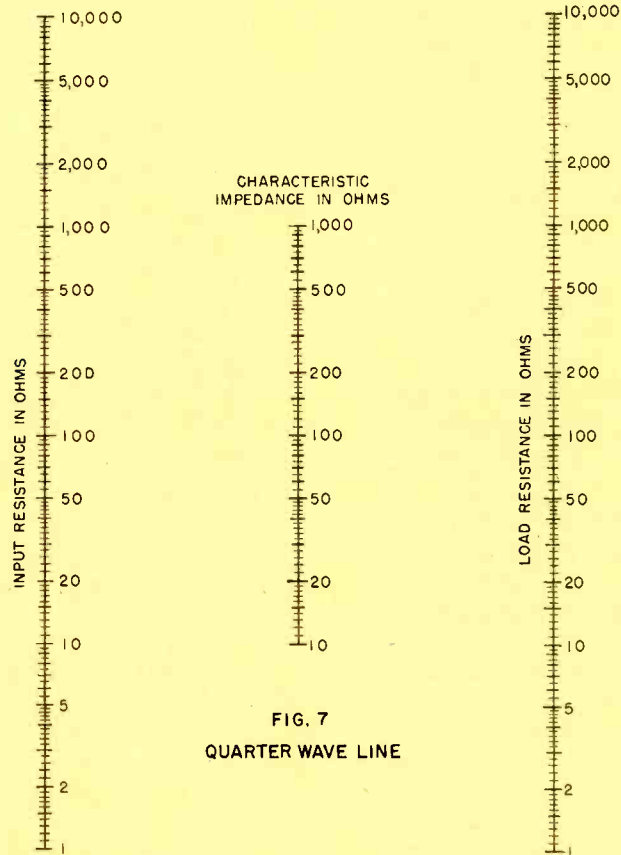
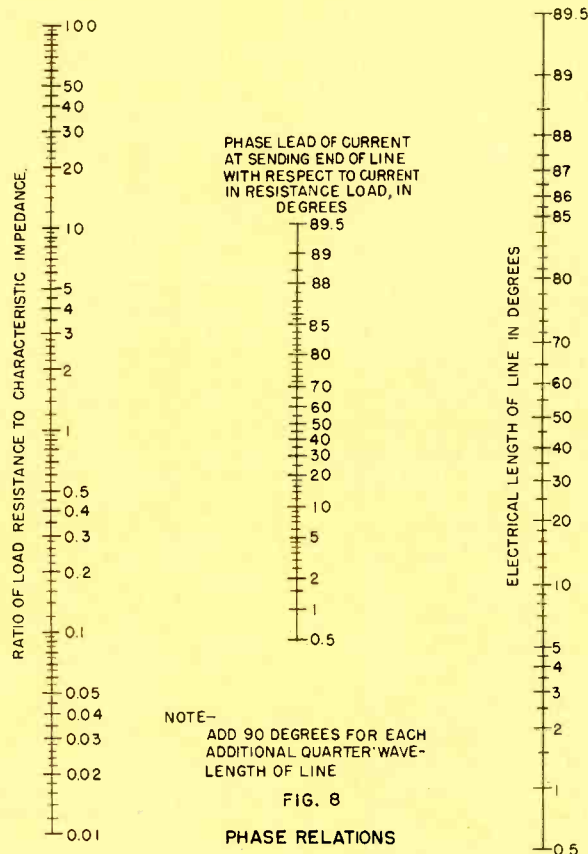
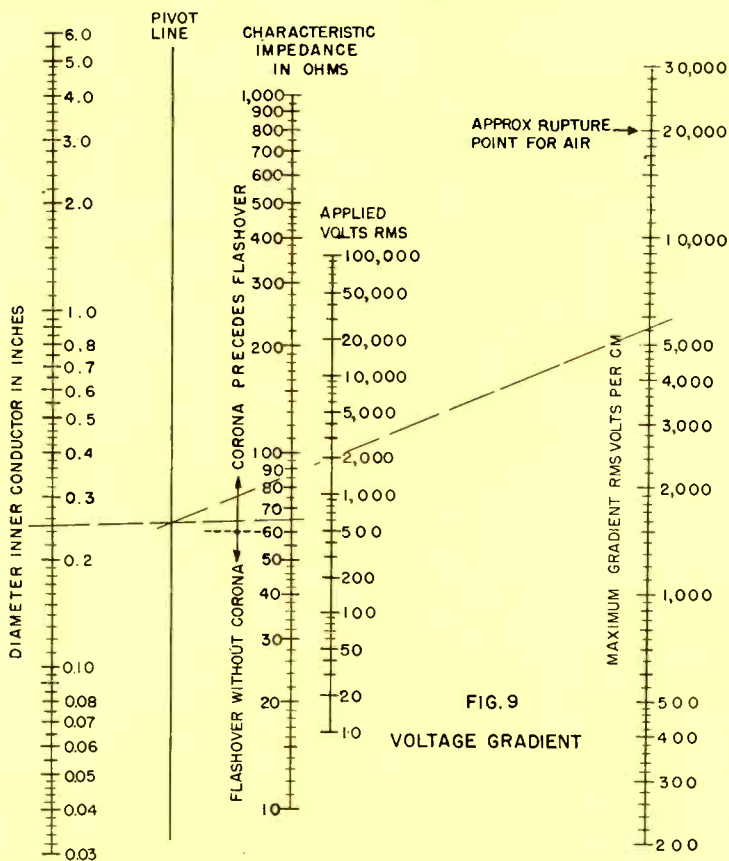


FIG. 7
QUARTER WAVE LINE



NOTE—
ADD 90 DEGREES FOR EACH
ADDITIONAL QUARTER-WAVE-
LENGTH OF LINE

FIG. 8
PHASE RELATIONS



This nomograph, Fig. 9, is used as follows: first, connect with a straight line points on the first and third scales from the left which represent the inner conductor diameter and the characteristic impedance (see example on nomograph). The intersection of this line with the second scale, labeled Pivot Line, is next connected with a second straight line passing through the desired point on the fourth scale, labeled Applied Volts RMS. The intersection of this second straight line with the fifth scale gives the desired value for the gradient on the surface of the inner conductor in rms volts per cm.

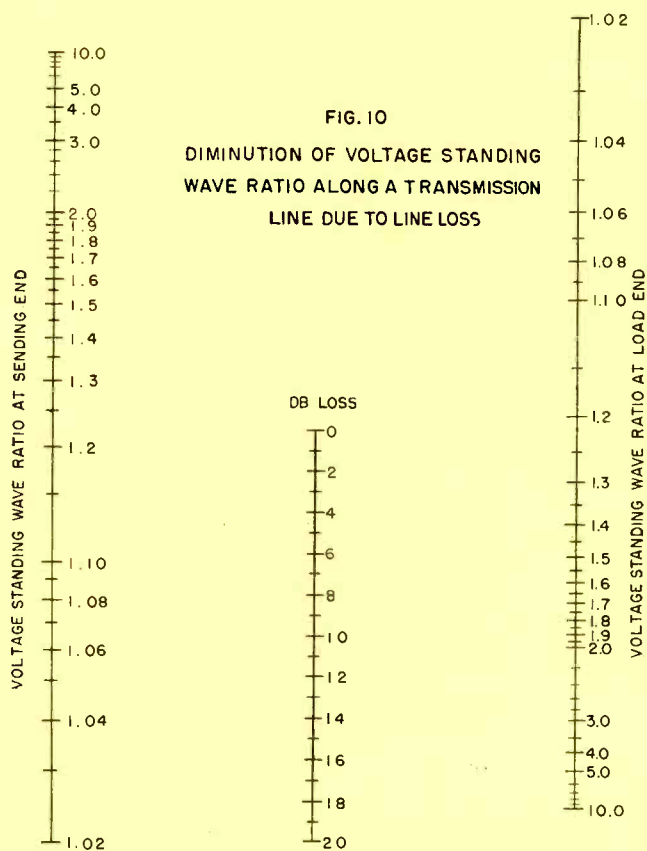
Bead insulators may cause higher gradients in their vicinity, resulting in premature voltage breakdown, particularly if they fit loosely on the inner conductor.

10. *Diminution of Standing-Wave Ratio Due to Line Loss.* A high-frequency transmission line whose characteristic impedance is not matched by the load impedance will have standing waves along its length. The standing-wave ratio in the vicinity of the load will be numerically equal to the ratio of the load resistance to the characteristic impedance (or its reciprocal if this is less than unity). If the line has attenuation, there will be a gradual diminution of the standing-wave ratio in the direction of the generator.

Figure 10 shows the relationship between the standing-wave ratio in a region near the generator (assuming that the wavelength is small compared to the line length), the standing-wave ratio near the load, and the line loss in decibels (as obtained from Fig. 3 and 4). The relationship is

$$db = \left[10 \log_{10} \frac{(S_L + 1)(S_G - 1)}{(S_L - 1)(S_G + 1)} \right]^{1/2} \quad (10)$$

where S_L is the voltage-standing-wave ratio near the load and S_G is the voltage standing wave ratio near the generator.



SQUARE-WAVE RESPONSE

Nomograph correlates tilt of square wave after passage through an uncompensated R-C-coupled video or audio amplifier with low-frequency response of amplifier and time constant of coupling circuit

By A. J. BARACKET

WHEN USING rectangular or square waves for testing audio and video amplifiers, the output of the amplifier is compared with the input on an oscilloscope. The degree or percent of tilt of the top of the square

wave represents the deterioration of the lower frequencies in the amplifier.

In the uncompensated R-C-coupled amplifier stage shown, the effect of the amplifier on low frequencies is almost completely

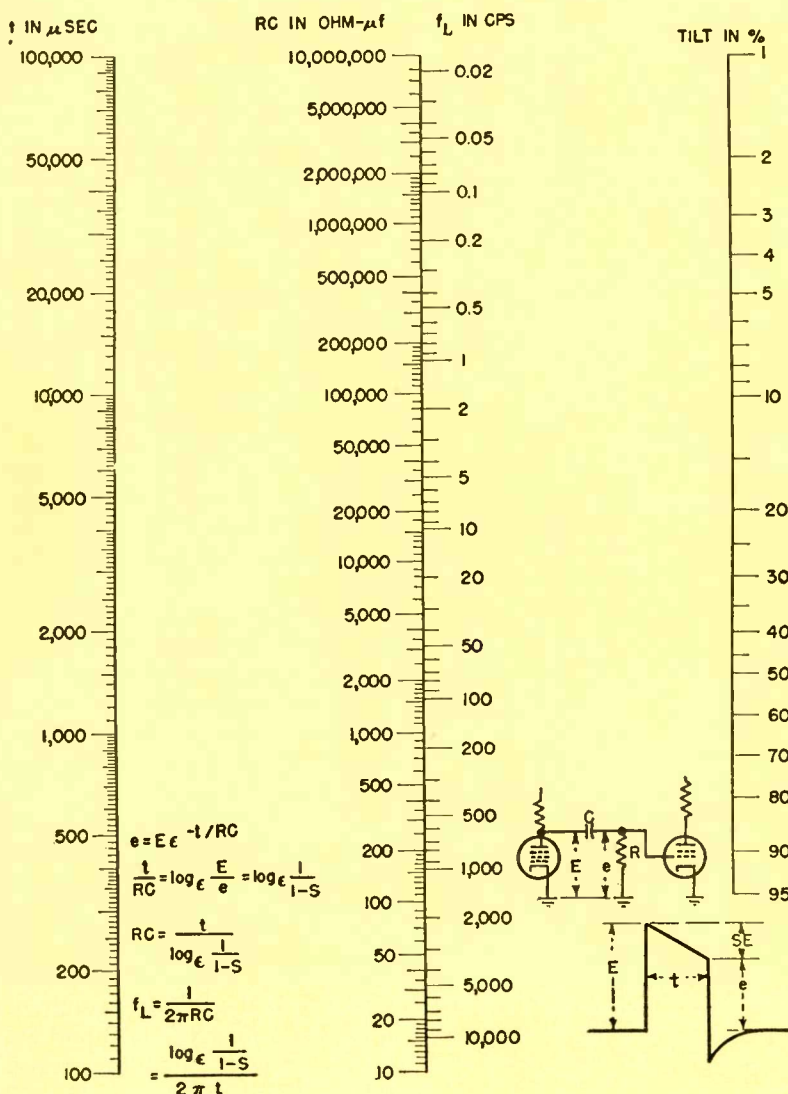
a function of the value of the R-C time constant in the grid-coupling circuit. The smaller the time constant, the poorer the low-frequency response and consequently the greater the percent tilt S of a rectangular wave (referred to the peak plate voltage value E , as indicated on the waveform diagram).

The accompanying nomograph is useful in computing the R-C value required to give a maximum specified tilt S (expressed as a decimal part of E) for a rectangular wave having a duration t , or conversely it may be used to determine the tilt that will be obtained from a given time constant. The chart also gives the relationship between tilt and low-frequency cutoff of an amplifier coupling circuit (the frequency f_L at which the amplitude-frequency response characteristic is down 3 db).

Example of Use

The percent tilt of an uncompensated video amplifier stage is specified as 2 percent maximum on a 60-cycle square wave. What will be the required time constant of the coupling circuit and the corresponding low cutoff frequency?

By means of a straightedge, connect the 2-percent point on the tilt scale with the 8,300- μ sec point (corresponding to the half-cycle duration of a 60-cycle square wave) on the t scale. The straightedge will cross the R-C scale at approximately 410,000 ohm- μ f. The corresponding low cutoff frequency f_L is found to be 0.4 cycle.



MIXER FREQUENCY CHARTS

CHART I. OUTPUT FREQUENCY = B - A

R = A/B	ORDER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0.000	B	B+A	B±2A	B±3A	B±4A	B±5A	B±6A	B±7A	B±8A	B±9A	B±10A	B±11A	B±12A	B±13A	B±14A
0.063															
0.067															
0.072															
0.077															
0.083															
0.091															
0.100															
0.111															
0.125															
0.132															
0.143															
0.154															
0.167															
0.182															
0.200															
0.214															
0.222															
0.231															
0.250															
0.273															
0.286															
0.300															
0.308															
0.333															
0.344															
0.375															
0.400															
0.416															
0.429															
0.445															
0.455															
0.500	A														
0.545															
0.555															
0.571															
0.600															
0.625															
0.667															
0.700															
0.715															
0.750															
0.778															
0.800															
0.833															
0.858															
0.875															
1.000															

CHART I. Output Frequency = B - A

PROCEDURE: Divide smaller mixer input frequency by larger to get R. If this value of R is on the chart applying to the case, coincidence exists and components causing it are given somewhere to the right, with their order given at top of chart. If coincidence does not exist, calculate low-order component frequencies for nearest ratios to determine selectivity requirements

CHART II. OUTPUT FREQUENCY = B + A

R = A/B	ORDER														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0.000	B	B-A	B±2A	B±3A	B±4A	B±5A	B±6A	B±7A	B±8A	B±9A	B±10A	B±11A	B±12A	B±13A	B±14A
0.072															
0.077															
0.083															
0.091															
0.100															
0.111															
0.125															
0.143															
0.154															
0.167															
0.182															
0.200															
0.214															
0.222															
0.231															
0.250															
0.273															
0.286															
0.300															
0.308															
0.333															
0.344															
0.375															
0.400															
0.416															
0.429															
0.445															
0.455															
0.500															
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0.555															
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0.600															
0.625															
0.667															
0.700															
0.715															
0.750															
0.778															
0.800															
0.833															
0.858															
0.875															
1.000															

CHART II. Output Frequency = B + A

By R. S. BADESSA

WHEN two frequencies, B and A, are mixed to produce the sum frequency B + A or the difference frequency B - A, a possibility exists that some harmonic of B, or some harmonic of A, or some combination of the harmonics of B and A will produce unwanted components lying close to the desired frequency. When the ratio of the two input frequencies, A/B, is also equal to the ratio k/l where k and l are integers and A is the smaller of the two input frequencies, two unwanted components exist capable of coinciding or zero beating with the sum frequency

B + A. These are (l + 1)A - (k - 1)B and (k + 1)B - (l - 1)A. Where the wanted frequency is B - A, the corresponding unwanted components are (l - 1)A - (k - 1)B and (k + 1)B - (l + 1)A.

If coincidence does not exist, notice the components corresponding to ratios not far removed from the ratio being investigated. The frequencies of these components, especially those of low order, should be calculated to determine how difficult a selectivity problem exists.

Example. A frequency of 4.9 mc is mixed with a frequency of

2.1 mc to produce a sum frequency of 7.0 mc. For this case R = 2.1/4.9 = 0.429. On Chart II the interfering components for R = 0.429 are of the tenth order and have the forms 4B - 6A and 8A - 2B. Since a tenth-order component is probably not very serious, coincidence can be neglected. Other ratios in the vicinity of 0.429 are investigated next. For the ratio 0.500, there are two third-order components, of the form 2B - A and 3A. These are 7.7 and 6.3 mc respectively and may or may not cause trouble, depending on the selectivity of the 7-mc channel.

FILTER RIPPLE CHART

Where choke input is used, output characteristics are readily predetermined. Curves are given for 50 and 60-cycle, half-wave and full-wave, and single- and three-phase rectifiers. A rectifier attenuation table is included

By G. K. HOOPER

WHEN USING choke-input filters, the output ripple of rectifier-type power supplies can be predetermined from the accompanying chart.

It is necessary to know the inductance value in henrys and the capacitance in microfarads for each filter section. Knowing the product of these two terms,

the amount of attenuation in db for each filter section can be read directly on the chart. Curves are given for 50-cycle (dashed lines) and 60-cycle (solid lines) power, for the four types of supplies most often used in industrial equipment.

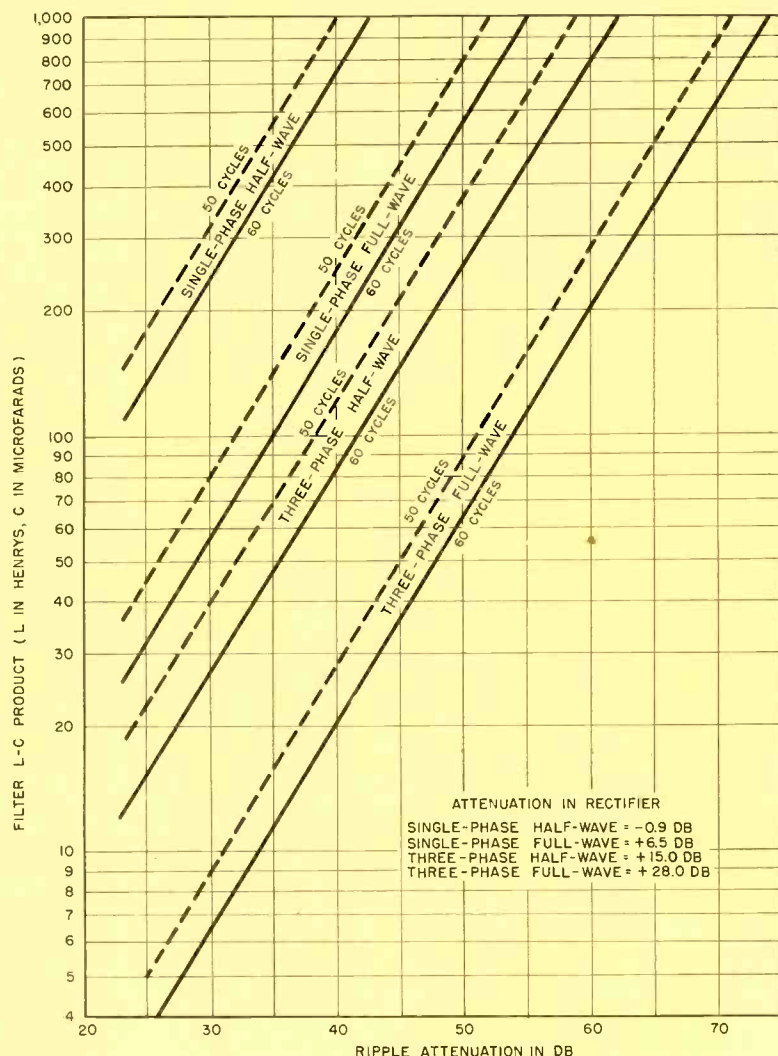
To obtain the total output ripple in db below the d-c level, the equivalent rectifier attenuation must be added to that of the filter sections.

Practical Example

The following example will illustrate the use of the chart. Assume that a single-phase full-wave rectifier operating from a 60-cycle supply has a two-stage choke-input filter. One of the filters consists of a 2-henry choke and 15- μ f capacitor. The other filter consists of a 2-henry choke and 20- μ f capacitor.

For the first filter, with an LC product of $2 \times 15 = 30$, the attenuation is read as 24.5 db. The second filter has an LC product of $2 \times 20 = 40$ and the attenuation is read as 27 db. From the table the equivalent rectifier attenuation of a single-phase full-wave rectifier is given as + 6.5 db.

The total resulting ripple attenuation is the sum of that of the individual filter sections plus that of the rectifier. In this case, the total is $24.5 + 27 + 6.5 = 58$ db rms below the d-c level.



TELEVISION I-F COIL DESIGN

Nomograph gives number of close-wound turns required to get desired inductance in range of values of interest to designers of coils for television, f-m and radar i-f transformers, eliminating considerable computational labor

By
JEAN HOWARD FELKER

THIS nomograph is based on a modification of H. A. Wheeler's inductance formula¹

$$L = \frac{r^2 n^2}{9r + 10l} \text{ microhenrys} \quad (1)$$

where r is the radius of the coil in inches, l its length in inches, and n the number of turns. In close-wound coils, l is a function of n . Substitution of nd , where d is the diameter of the wire in inches, for l in Eq. 1 gives an equation which can be solved for n to give

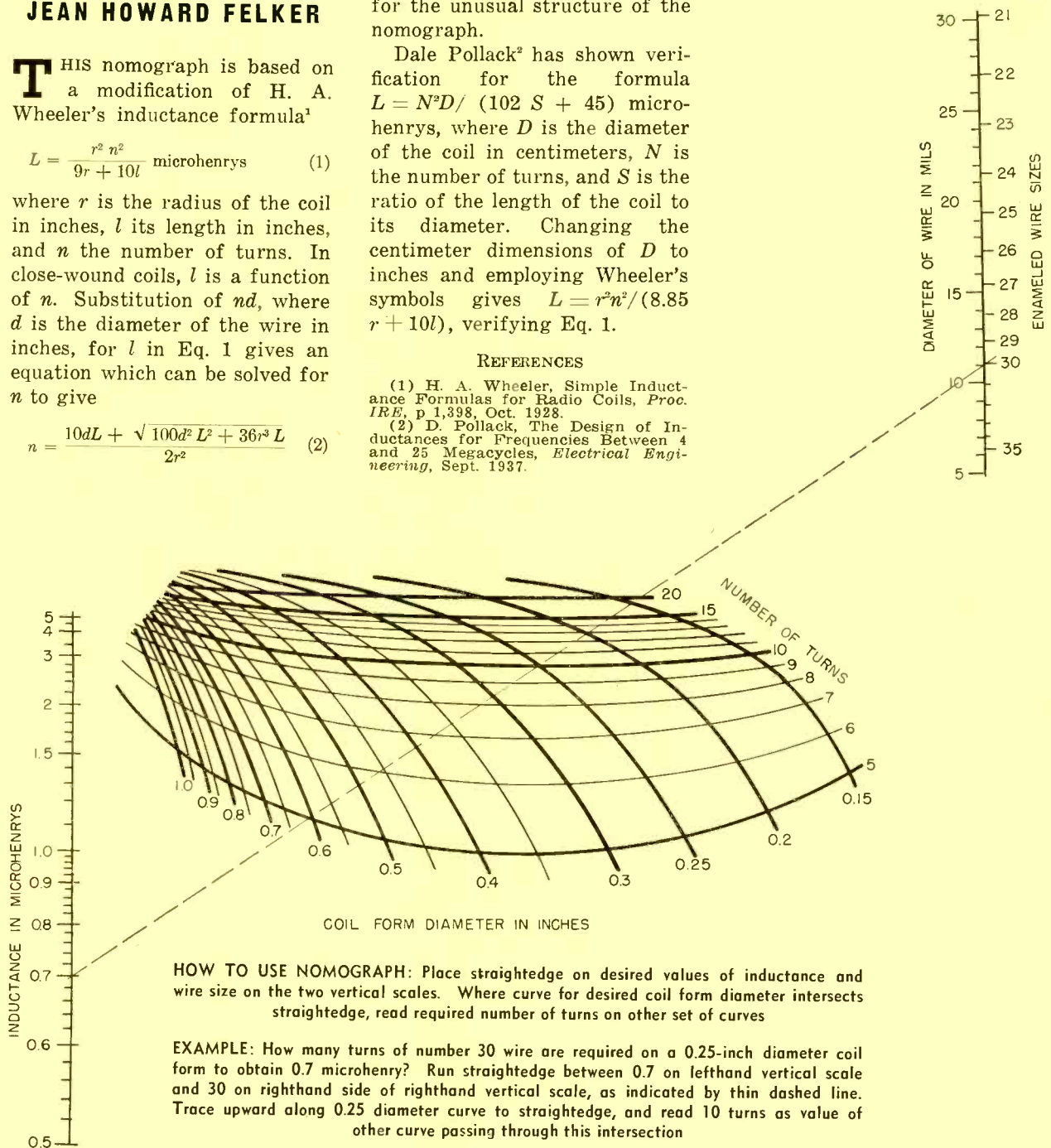
$$n = \frac{10dL + \sqrt{100d^2 L^2 + 36r^3 L}}{2r^2} \quad (2)$$

The complexity of Eq. 2 accounts for the unusual structure of the nomograph.

Dale Pollack² has shown verification for the formula $L = N^2 D / (102 S + 45)$ microhenrys, where D is the diameter of the coil in centimeters, N is the number of turns, and S is the ratio of the length of the coil to its diameter. Changing the centimeter dimensions of D to inches and employing Wheeler's symbols gives $L = r^2 n^2 / (8.85 r + 10l)$, verifying Eq. 1.

REFERENCES

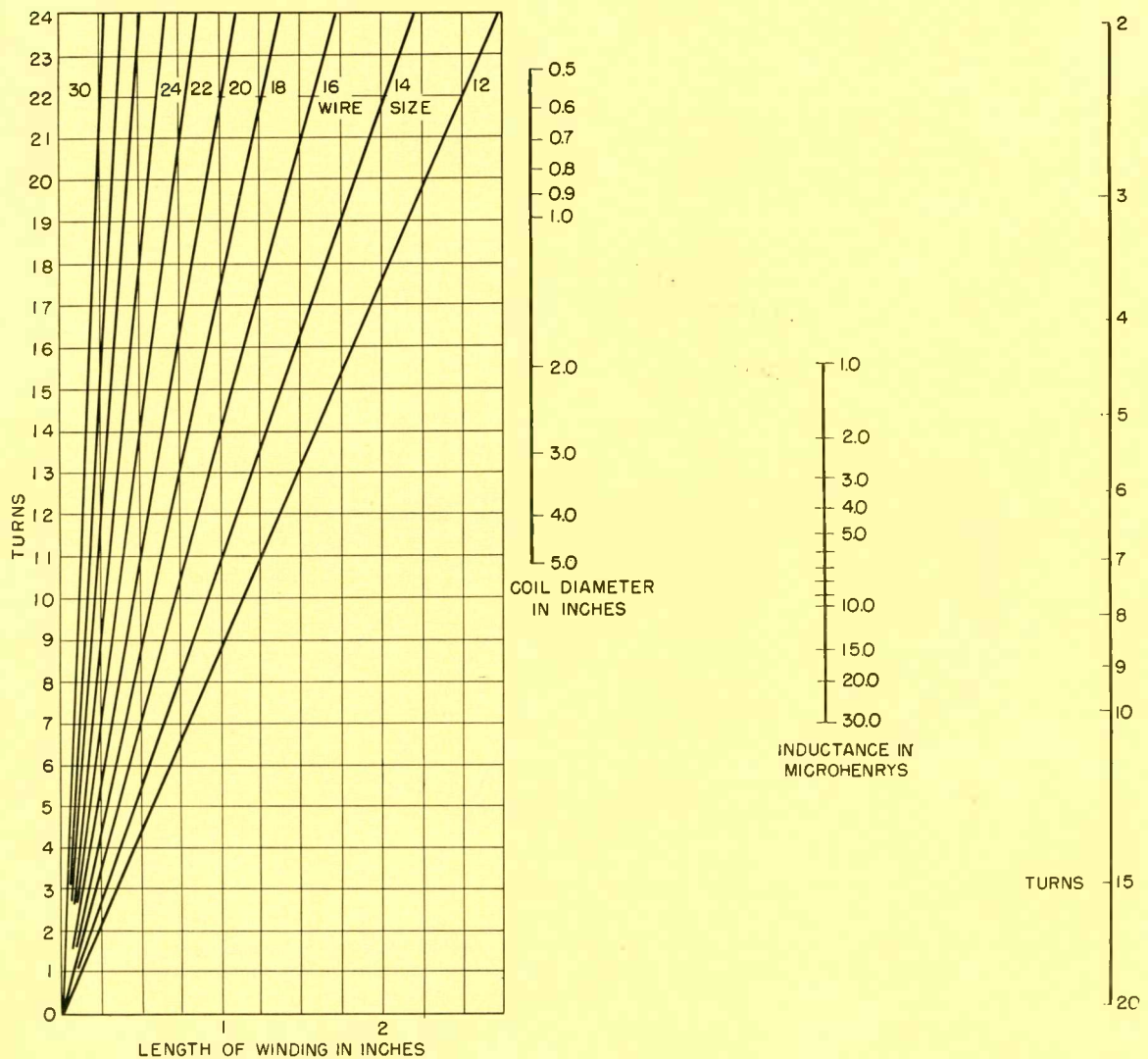
- (1) H. A. Wheeler, Simple Inductance Formulas for Radio Coils, *Proc. IRE*, p 1,398, Oct. 1928.
- (2) D. Pollack, The Design of Inductances for Frequencies Between 4 and 25 Megacycles, *Electrical Engineering*, Sept. 1937.



SHORTWAVE COIL DESIGN

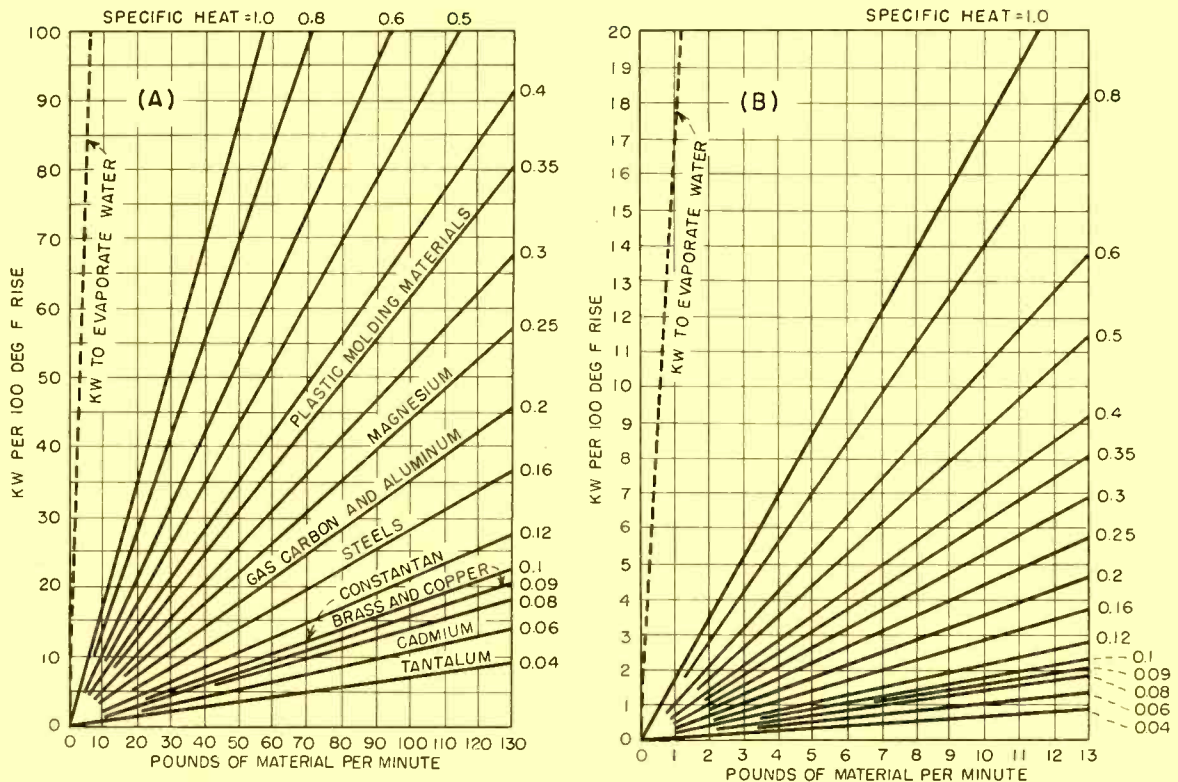
Charts give design data for inductances having highest possible Q, without cut-and-try, for optimum proportion wherein length of winding is equal to half its diameter. Design is based on information published by Dale Pollack in Sept. 1937 *Electrical Engineering*

By FREDERICK C. EVERETT



Nomograph at right gives required number of turns for any desired inductance. Chart at left gives optimum size of wire, using half of diameter for length; coil should be wound so wire occupies entire length of winding

ELECTRONIC HEATING GRAPHS



Thermal power versus heating rate for materials of various specific heats. The two graphs are identical except that the one at the right is used for more accurate results with small quantities

Curves give power needed to attain desired temperature rise at given rate for materials having specific heats ranging from 0.04 to 1.0, when using either induction or dielectric heating. Separate curves cover evaporation of water

THE POWER required to attain a given temperature rise at a given rate depends directly upon the number of pounds of material, the specific heat, the number of degrees temperature rise, and inversely upon the number of minutes in which the heating is to be accomplished. Neglecting heat radiation and convection losses, which are usually insignificant below 1,500 F, the pertinent power-temperature rise information is presented in a series of curves which are plots of kw per 100 deg F = 1.758 (lb per min) × specific heat.

The dashed curve represents power needed to evaporate water and reads directly from the vertical scale in each graph. The

By A. P. BOCK

evaporation curve is a plot of kw = 17.05 lb per min water evaporated.

Examples

Suppose it is desired to heat 50 pounds of steel per minute from 50 F to 1,350 F. Using a specific heat of 0.16, a value of 14 kw per 100-deg rise is obtained from graph A. Then for 1,300 deg rise, 13×14 or 182 kw of thermal power is required.

In another case, it may be desired to heat 10 lb per min (dry weight) of preforms, such as general-purpose molding compound, from 70 F to 270 F. Suppose this material contains

2-percent moisture, all of which will be evaporated by the time 270 F is reached. Using a specific heat of 0.35, a value of 6.1 kw per 100-deg rise is obtained from graph B. Then for 200-deg rise, 2×6.1 or 12.2 kw of thermal power is required to heat the dry material.

Two more factors of required power enter in owing to the moisture. In raising 0.2 lb of water per min from 70 F to 212 F or 142-deg rise, and using a specific heat of 1.0 for water, we have 0.35 kw per 100-deg rise or 0.5 kw for 142-deg rise. In evaporating 0.2 lb of water per min, the dashed-line curve of graph B indicates that 3.4 kw is needed. The sum of these products, then, totals 16.1 kw.

DESIGN OF R-F HEAT-TREATMENT

By EUGENE MITTELMAN

THE principal difficulty in the design of generators using the capacitive field method for r-f heat treatment is due to the characteristic potential distribution in the output circuit of such generators. The actual r-f potential across the object itself is a small fraction of the total high-frequency voltage across the electrodes. The potential distribution is a rather com-

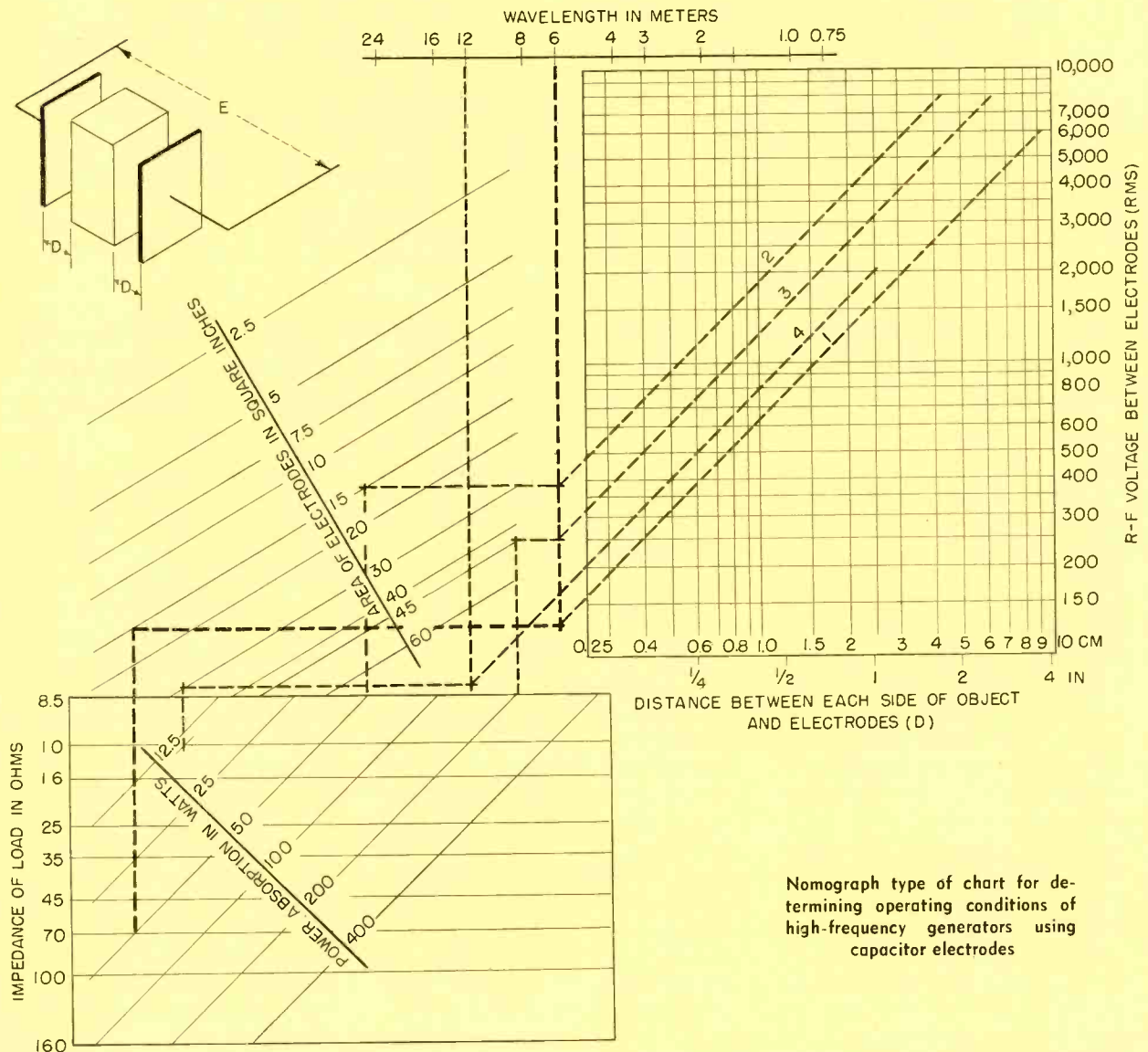
plicated function of a great number of variables including the wavelength, the capacitance between the electrodes and the object (which in turn is a function of the size of the electrodes, their distance from the object and the dielectric constant of the space between the electrodes), and the conductivity and dielectric constant of the object itself.

In general, both in the industrial and in the electromedical fields of application, the load impedance represented by the ob-

ject is small compared to the reactances of the coupling capacitances between object and electrodes, hence the necessity for an excessively high-frequency voltage across the electrodes for the achievement of a certain required power absorption by the object.

Chart Design

The chart is designed to give the high-frequency voltage E across the electrodes as a function of the distance D between



Nomograph type of chart for determining operating conditions of high-frequency generators using capacitor electrodes

GENERATORS

Chart gives directly the effect of changes in electrode spacing and other operating parameters. Many heat-treatment generators using capacitive electrodes do not produce expected power output because of improper coupling to the load

object and electrodes for any arbitrary values of the other variables as parameters. The chart may also be used to determine the power designated in the load when the area of the electrodes and the load impedance are known. It shows up the limitations of the capacitor field method especially when large spacing is required. On the other hand, it demonstrates that under favorable conditions considerable power absorption may be obtained even with relatively low values of the high-frequency voltage across the electrodes. This latter fact is of special importance in the design of some special-purpose generators.

As the maximum available high-frequency voltage in the tank circuit of an oscillator is about 0.9 the plate voltage or 1.8 in case of the push-pull type generators, the chart will prove helpful in the proper choice of the oscillator tubes.

Use of Chart

Select the lines of desired power absorption and load impedance at the lower left corner of the chart. From their intersection erect a vertical line and extend upward to the 30-deg line corresponding to the correct electrode area. From this intersection project horizontally to an intersection with a vertical line drawn through the proper wavelength on the wavelength scale. Through this last intersection point, a 45-deg line extending into the grid of logarithmic scales will give the r-f potential as a function of the electrode spacing. For dielectrics between object and electrodes, having constants greater

than unity, the readings on the horizontal scale, giving the distances between object and electrodes, must be divided by the dielectric constant.

Examples of Use of Chart

The correct use of the chart can be best explained by solving several examples.

(1) Given a generator with wavelength of 6 meters and a pair of electrodes 15 square inches in area, determine the voltage across the electrodes for a 70-ohm load to absorb 50 watts, provided the spacing between object and electrodes is one inch on both sides. From line 1 corresponding to this case we read off 1,600 volts rms. The voltages for other spacings may be taken from the same line.

(2) Given the same wavelength and the same geometrical conditions, a load impedance of 8.5 ohms, and a desired power absorption of 50 watts, find the r-f voltage across the electrodes. From line 2 we find the voltage must be increased to 3,700 volts rms.

(3) The power absorption can be increased greatly, even with less r-f voltage across the electrodes, if the area of the electrodes is increased. Line 3 corresponds to a 6-meter generator yielding 200 watts power absorption in a 8.5-ohm load between two electrodes whose area is 45 square inches.

(4) With a 12-meter generator the maximum available r-f voltage, with electrodes whose area is 30 square inches, shall be 2,000 volts rms. What power absorption can be expected if a load of 10 ohms equivalent im-

pedance is placed between the electrodes separated by 2.5-cm (1-inch) air spacing on each side of the electrodes? We find the answer by drawing a straight line at 45 degrees through the point corresponding to 2,000 volts and 2.5 cm (1 inch) on the graph (line 4) until it intersects the vertical 12-meter line. From here draw a horizontal to the 30-square-inch line and project down to the 10-ohm line. The power absorption will not exceed about 14 watts.

The physical arrangement of the chart is such that any of the variables can be taken as the independent factors merely by entering the chart at the right place. This feature is of particular advantage when the exact operating conditions are not known, and when several factors may be varied to obtain the desired power absorption.

Thus, for example, increasing the area of the electrodes increases the power absorption (all other factors remaining constant) in proportion to the increase in electrode area. Likewise, by halving the wavelength, the power absorption is doubled, if this is the only change in operation. Doubling the distance between electrodes and object means that the voltage must be doubled to maintain the same power absorption. Conversely, for a given impedance and power absorption, the voltage of the generator must be doubled if the spacing, D , is doubled.

As a result of many actual measurements on practical generators, it is found that the chart gives results in good agreement with practice.

R-F POWER-AMPLIFIER DESIGN CHART

By E. H. SCHULZ

THE method described here is based on the following assumptions:

1. The I_p - E_p curves are parallel and equidistant for equal grid bias increments in the positive grid region.

2. $I_p = k(e_g + e_p/\mu)$.

3. The amplification factor, μ , is a constant.

In addition, the grid current and the peak plate current must be approximated.

Symbols are as follows:

- I_m = peak plate current.
- I_1 = peak value of fundamental component of plate current.
- I_2 = peak value of second harmonic component of plate current.
- I_{d-c} = d-c plate current.
- E_b = plate supply voltage.
- E_c = grid bias voltage.
- E_i = peak input from driver stage.
- E_o = peak output voltage.
- $E_{p\min}$ = minimum value of plate voltage.
- $E_{p\max}$ = maximum positive value of grid voltage.
- P_i = d-c plate input power.
- P_o = r-f power output.
- θ = angle of conduction in degrees of fundamental frequency.

If provision is made to vary the principal parts of the circuit (such as grid bias, driving voltage and load coupling) by a small amount, optimum operating conditions may be obtained. Although the method is outlined for class-C design, it may be used for class-B design by making the angle of conduction equal to or slightly larger than 180 degrees.

Since the allowable peak plate current is not given by the tube manufacturer, it must be approximated by multiplying the emission as given in Table I by the filament heating power in watts. Allowance should be made for grid current (usually 10 to 20 percent). For tetrodes and pentodes, allowance should be made for screen current.

Table I — Maximum Emission Current for Various Filament Materials, to be Used in Choosing I_m

Type of filament	Maximum Emission ma per watt of heating power
Tungsten ¹	2 to 4
Thoriated Tungsten ²	10 to 35
Oxide Coated ³	10 to 40

¹ Based on safety factor of 1. Multiply by 0.6 to 0.7 for linear amplifier or for modulated stage to insure linearity.
² Based on safety factor of 3 to 10.
³ Based on safety factor of 5 to 15.

Table II — Comparison of Design and Experimental Values for Class C Amplifier Using Type 10 Tube

	Design	Experimental
I_{d-c}	60	62.5
P_o	19.6	18.8
P_i	30	31.2
$E_{p\max}$	110	118
$E_{p\min}$	130	123
I_g	10-12	12

$E_b = 500$ Volts $f = 800$ kc
 $\theta = 135^\circ$, $E_c = 138$, $I_m = 282$, $I_1 = 106$

Case I. Class C Amplifier with Given Plate Input Power

1. Select tube and plate supply voltage, E_b (high values give greater efficiency but require greater driving power).

2. Determine the d-c plate current, $I_{d-c} = P_i/E_b$.

3. Select several angles of conduction between 100 deg and 130 deg (small angles give greater plate efficiency but require greater driving power). Determine the peak plate current, I_m , and the fundamental component, I_1 , from I_{d-c} and the

chart for each angle.

4. Check I_m against allowable value.

5. Consult I_p - E_p curves and select values of $E_{p\max}$ and $E_{p\min}$ to give required I_m . $E_{p\min}$ should be as small as possible for maximum efficiency, and $E_{p\max}$ should be less than 80 percent of $E_{p\min}$ for low driving power. In the case of tetrodes and pentodes $E_{p\max}$ should not exceed 80 percent of the screen voltage nor should $E_{p\min}$ be less than the screen voltage.

Since the manufacturer's I_p - E_p curves do not extend far enough into the positive grid region, some I_p - E_p curves for positive grid voltages must be sketched in by assuming that the curves for constant grid voltage increments are equidistant and parallel to the straight-line portion of the zero grid voltage curve.

6. Calculate the grid bias from

$$E_c = E_b/\mu + (E_{p\max} + E_{p\min}/\mu)\alpha / \cos(\theta/2)$$

where $\alpha = \frac{E_{p\max} - E_{p\min}}{E_{p\max} + E_{p\min}}$ may be taken directly from the chart.

7. Calculate peak value of the driving voltage $E_i = E_o + E_{p\max}$.

8. Calculate power output, $P_o = I_1 E_o / 2$ where $E_o = E_b - E_{p\min}$. Also calculate plate dissipation $= P_i - P_o$.

9. Assuming that the grid current is 10 to 20 percent of the plate current, determine the approximate driving power from E_o multiplied by the d-c grid current.

10. Check I_{d-c} , E_c , driving power, and plate dissipation against maximum allowable for tube.

11. Choose the angle of conduction that gives the most desirable operation from the standpoint of output, efficiency and

Approximate method of designing class-B and class-C amplifiers, giving sufficient accuracy for most engineering work. Accuracy obtainable for various operating parameters is better than 10 percent for example chosen

driving power. If desired, this may be repeated for several values of E_{pmin} and E_{pmax} .

12. Design tank circuit:

Equivalent impedance of tank,
 $Z_o = E_o/I_1$,

$L = Z_o/2\pi fQ$ henrys.
 $C = 1/(2\pi f)^2L$ microfarads.

Q may be set arbitrarily between 10 and 15 or may be established by the allowable second harmonic as follows:

$$Q = \frac{66}{\text{percent 2nd harmonic}} \times \frac{I_2}{I_1}$$

where I_2 = second harmonic component of plate current for given θ . A large Q will give a low harmonic component but will increase the heating loss in the tank circuit.

Case II. Class C Amplifier with Given Power Output

1. Select tube and E_b as in step 1, case I.
2. Choose allowable I_m from Table I.
3. Select E_{pmin} and E_{pmax} as in step 5, case I.
4. Calculate $E_o = E_b - E_{pmin}$ and $I_1 = 2P_o/E_o$.
5. From the ratio I_1/I_m determine θ and I_{d-c} .
6. Calculate plate input $P_i = E_b I_{d-c}$ and plate dissipation = $P_i - P_o$.
7. Calculate E_c , E_i , and driving power as in steps 6, 7, and 10 of case I.
8. Repeat for several values of I_m or try different combinations of E_{pmin} and E_{pmax} for a given I_m to give better results from the standpoint of efficiency, tube life and driving power.
9. Design tank circuit as in case I.

After the tank circuit has been tuned to resonance and the grid bias and plate voltage have been adjusted to the correct values, the grid excitation voltage should

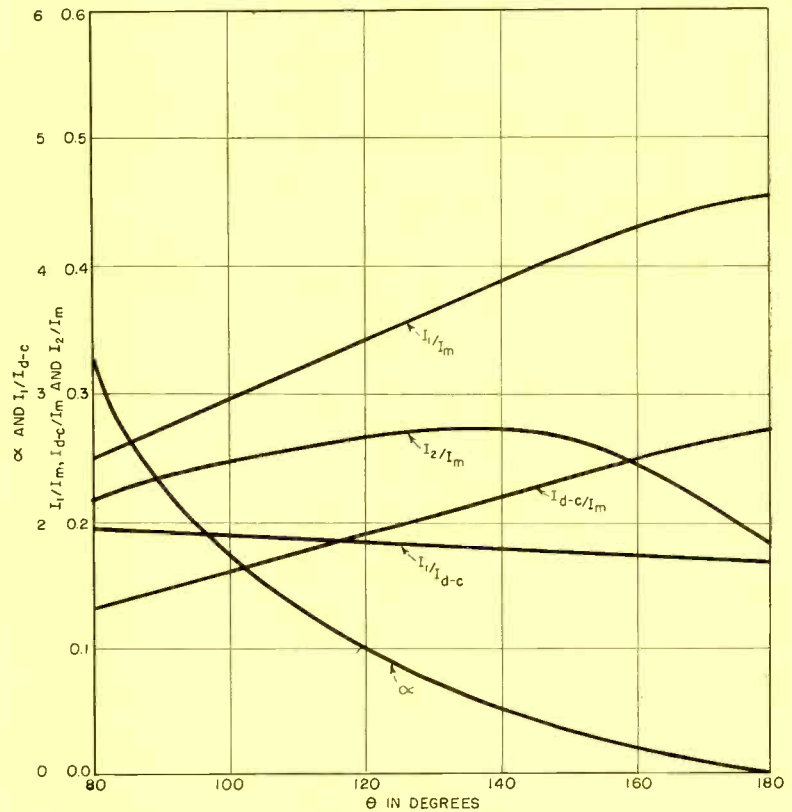
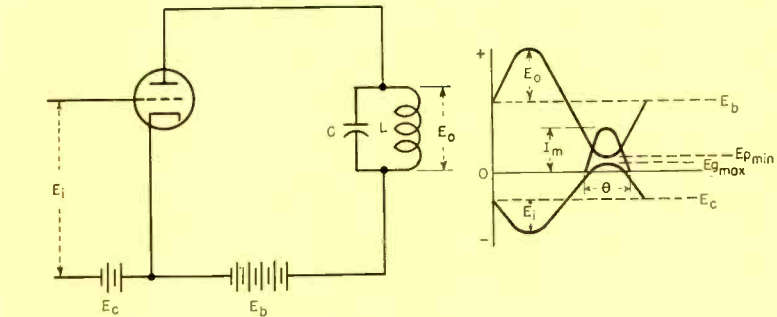


Chart giving approximate operating parameters for optimum operating conditions of class-B and class-C r-f power amplifiers

be adjusted so that the correct E_{pmax} is obtained, as measured by a peak voltmeter. The coupling of the load to the tank circuit should then be increased until the desired plate current is obtained. The tank circuit should be retuned each time that the coupling is changed. Small vari-

ations from the calculated values may improve the overall operating conditions. In amplifiers using tetrodes and pentodes the tank should be tuned for maximum output rather than for minimum plate current, because the plate current is not very critical with respect to tuning.

DESIGN OF LOUDSPEAKER DIVIDING

Four-parameter chart gives directly the required values of L and C for a parallel-connected constant-resistance dividing network, at any desired crossover frequency and line impedance, when separate low and high-frequency loudspeakers are employed

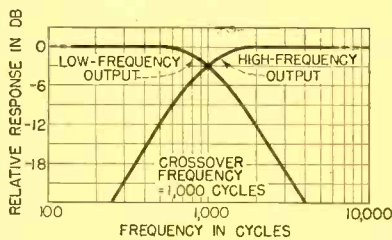


FIG. 1—Ideal transmission characteristics of a 1,000-cycle dividing network

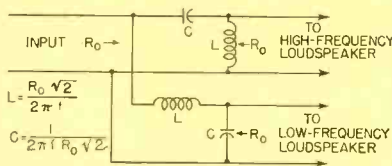


FIG. 2—Circuit of parallel-type constant-resistance dividing network, with design equations (L is in henrys, C is in farads, f is crossover frequency in cycles, and R_0 is impedance in ohms of input and each output branch of the network)

By EARL R. SCHULER

WITH divided-range loudspeaker systems, an electrical dividing network must be used to separate the low and high frequencies into two bands so that each may be reproduced by the proper loudspeaker unit. To approximate the ideal network transmission characteristics of Fig. 1, the parallel-type constant-resistance dividing network of Fig. 2 is favored for its simplicity since both inductors (and both capacitors) have the same values.^{1,2} The chart in Fig. 3 gives these values of L and C directly for various values of

crossover frequency f and line impedance R_0 .

Although the values of L and C may be computed easily from the simple formulas given in Fig. 2, the chart will be found very useful for preliminary design problems. The chart may be used beyond the ranges shown by employing one of the following sets of multiplying factors for the scales:

R_0	f	L	C
1	10	0.1	0.1
10	1	10	0.1
10	10	1	0.01

To prevent the generation of harmonics and intermodulation products by the network, the inductance of the coils must be independent of the signal level. Since air-core inductors are inherently free of this difficulty they are usually preferred over iron-core types. They must be rather large, however, and must be wound with heavy wire in order to obtain a reasonably high Q . A value of 20 at the crossover frequency is satisfactory. Information on the design of air-core inductors may be found in the literature^{3,4}.

EXAMPLE 1: A dividing network is required for use in a 15-ohm line, the crossover frequency to be 1,000 cycles. From the point of intersection of the diagonal 15-ohm and 1,000-cycle lines on the chart, read out to the left and upper edges of the chart to the values 3.37 mh and 7.50 μ f for L and C . Coils may be wound especially for this value,

and standard-size capacitors may be connected in parallel to make up the required capacitance within 5 to 10 percent.

It is permissible to redesign the network for a slightly different crossover frequency to permit use of standard capacitors. New values taken off the chart, starting from the intersection of the 15-ohm and 8- μ f lines, are 938 cycles and 3.60 mh.

EXAMPLE 2: A dividing network is required for use in a 600-ohm line, the crossover frequency to be 500 cycles. This installation will require the use of separate autotransformers to match the low- and high-frequency units to the 600-ohm outputs of the network. Since 600 ohms does not appear on the chart, preliminary values must be determined from the intersection of the 60-ohm and 500-cycle lines; these are found to be 27 mh and 3.75 μ f. Since the value for R_0 must be multiplied by 10 and there is no change to be made in the frequency (f multiplied by 1), the conditions for determining the final values are met by applying the multiplying factors on line 2 of the table. This gives final values of 600 ohms, 500 cycles, 270 mh, and 0.375 μ f for the network.

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- 1) John K. Hilliard, Loudspeaker Dividing Networks, *ELECTRONICS*, p 26, Jan. 1941.
- 2) "Motion Picture Sound Engineering", chapter XX, D. Van Nostrand Co., New York, 1938.
- 3) H. A. Wheeler, Simple Inductance Formulas for Radio Coils, *Proc. IRE*, p 1928, Oct. 1928.
- 4) E. S. Purington, Simplified Inductance Chart, *ELECTRONICS*, p 61, Sept. 1942.

NETWORKS

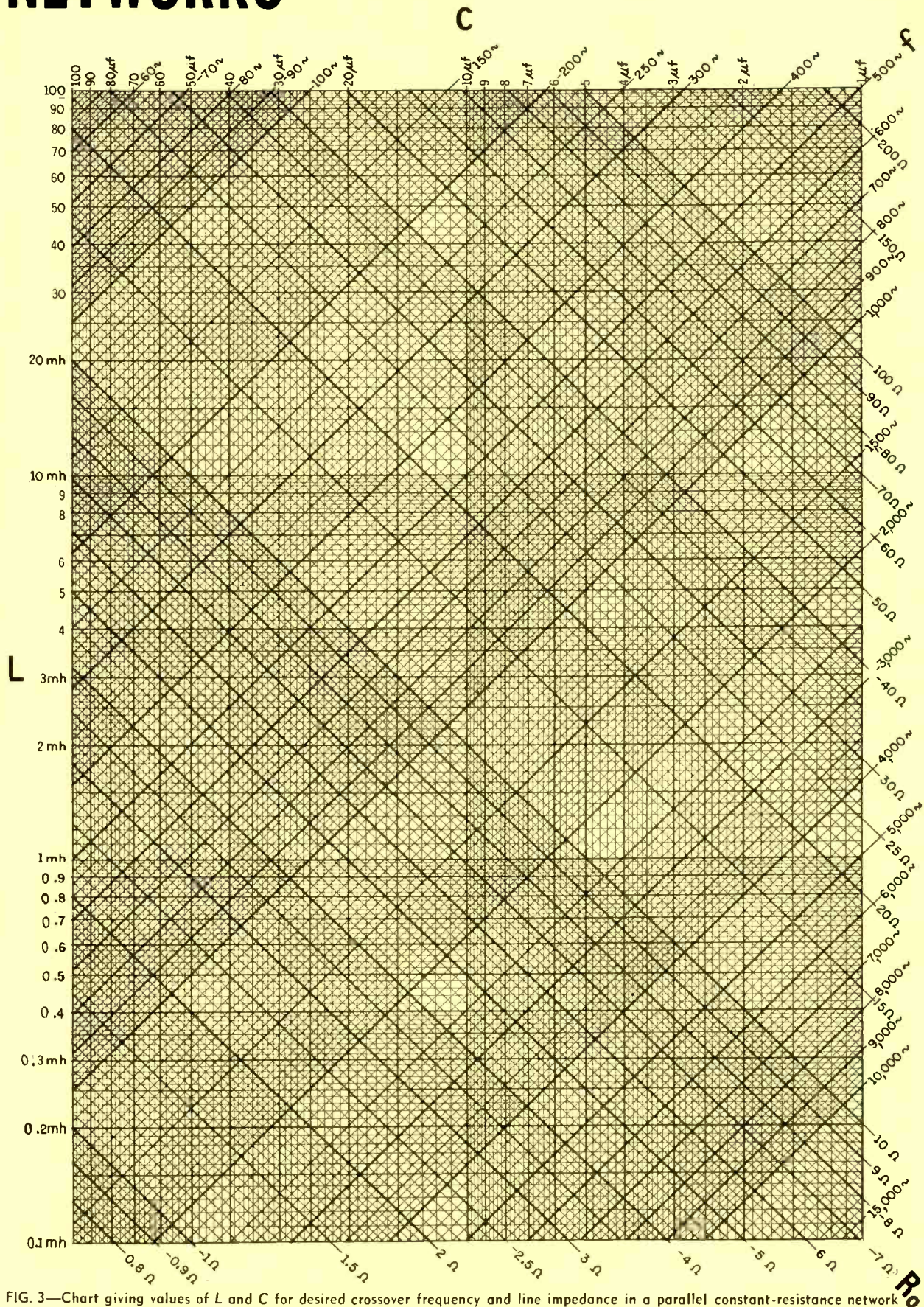
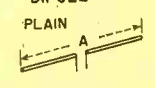
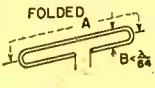
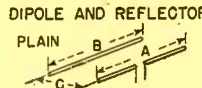
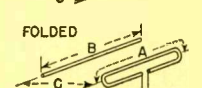
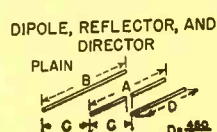
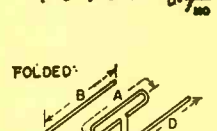

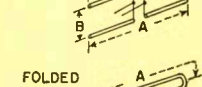
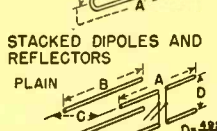
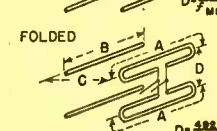
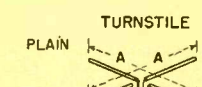
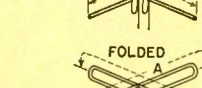


FIG. 3—Chart giving values of L and C for desired crossover frequency and line impedance in a parallel constant-resistance network

F-M and TELEVISION RECEIVING ANTENNAS

By GEORGE P. KEARSE

Type of Antenna; Length in Feet $A = \frac{468}{f_{mc}}$ $B = \frac{492}{f_{mc}}$ $C = \frac{246}{f_{mc}}$	Approximate Terminal Impedance in Ohms	Radiation Pattern		Gain over Dipole		Recommended Feed Line, Application and Remarks
		Electric, in Line with Radiator	Magnetic, Right Angles to Radiator	Power	Decibels	
DIPOLE PLAIN  FOLDED 	72	Figure of eight, bidirectional broadside to elements	Circular	Unity	Zero	PLAIN—75-ohm coaxial. FOLDED—300-ohm twin-lead. Use of twin-lead to feed plain dipole gives broadband operation but extreme loss in gain; not recommended General two-direction coverage for receiving in areas of moderate signal strength. Folded dipole slightly more broadband than plain. If 300-ohm twin-lead is used as radiator, do not shorten length A for propagation factor
	300					
DIPOLE AND REFLECTOR PLAIN  FOLDED 	60	Uni-directional broadside to radiator	Half of figure of eight	2 to 2½ times	3 to 4 db	PLAIN—50-ohm or 75-ohm coaxial; 75-ohm cable is more broadbanded. FOLDED—300-ohm twin-lead Single-direction coverage, high front-to-back ratio and high gain. Recommended for use in areas of low signal strength and where single-direction radiation pattern is desired. Folded radiator slightly increases bandwidth. If array is to be used over narrow band, calculate length B at lowest frequency desired. Reducing C to 0.15 λ (in air) gives higher gain but lowers impedance and reduces bandwidth
	250					
DIPOLE, REFLECTOR, AND DIRECTOR PLAIN  FOLDED 	20 to 30	Uni-directional broadside to radiator	Half of figure of eight	2½ to 4 times	4 to 6 db	PLAIN—50-ohm coaxial. If better impedance match is desired, use quarter-wave matching transformer; impedance of transformer should be square root of product of line and antenna impedances. FOLDED—75-ohm coaxial or 95-ohm twin coaxial Single-direction coverage, high front-to-back ratio and high gain. Very frequency-sensitive. Narrow bandwidth. Recommended for use in areas of very low signal strength and for one frequency only. Spacing is λ/4; reducing C to 0.15λ for reflector and 0.1λ for director (in air) increases gain but reduces impedance to 8 to 10 ohms for plain and 30 to 40 ohms for folded dipole
	80 to 120					
STACKED DIPOLES PLAIN  FOLDED 	35 to 40	Figure of eight, bidirectional broadside to elements	Figure of eight, bidirectional broadside to elements	2 to 2½ times	3 to 4 db	PLAIN—50-ohm coaxial. FOLDED—150-ohm twin-lead. Quarter-wave matching transformer may be used for 300-ohm twin-lead if desired, but will be frequency-sensitive High-gain array for use in areas of low signal strength and where two-direction coverage is needed. Useful over moderate frequency band. Value of B may be reduced to λ/8 (in air) if desired, with a reduction in gain
	150					
STACKED DIPOLES AND REFLECTORS PLAIN  FOLDED 	25 to 30	Uni-directional broadside to elements	Uni-directional broadside to element	4 to 5 times	6 to 7 db	PLAIN—50-ohm coaxial cable. Quarter-wave matching transformer may be used for better impedance match but will be frequency-sensitive. FOLDED—95-ohm twin coaxial cable or 150-ohm twin-lead High-gain array for use in areas of low signal strength and where single-direction coverage is desired. Useful over relatively narrow band. Value of C may be reduced to 0.15λ (in air) with an increase in gain. Value of impedance will be lower and array will be more frequency-sensitive. Value of D may be reduced to λ/8 (in air) if desired, with a reduction in gain
	100 to 120					
TURNSTILE PLAIN  FOLDED 	35 to 40	Circular. Radiation pattern changes with frequency	Figure of eight	0.7 of a dipole	-1½ db	PLAIN—50-ohm coaxial cable. FOLDED—150-ohm twin-lead Omnidirectional coverage for use in areas of high signal strength. Low gain. Very frequency-sensitive; radiation pattern approximates dipole pattern rotated 45° from axis of either dipole when operated off frequency. With this array, two dipoles are connected together with a quarter-wave phasing section of 75-ohm coaxial cable for plain dipoles and 300-ohm twin-lead for folded dipoles. Length of phasing section must be corrected for propagation constant of line used
	150					

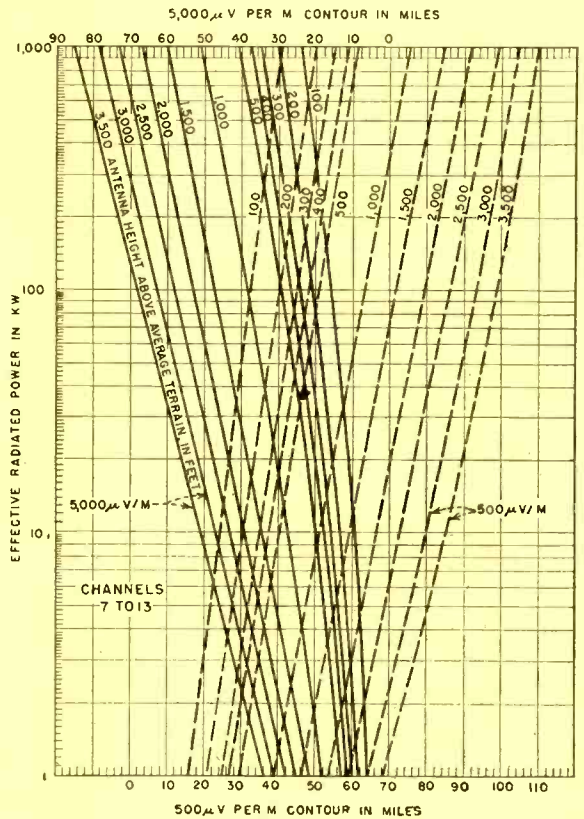
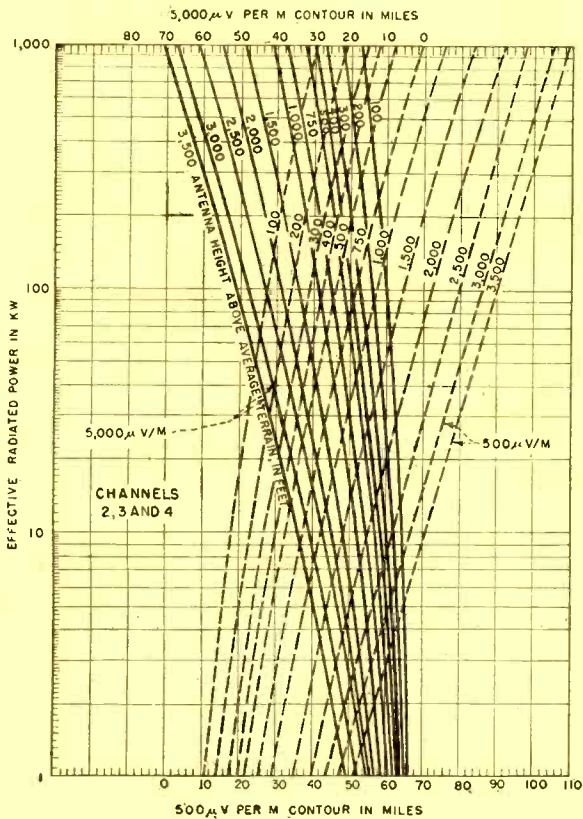
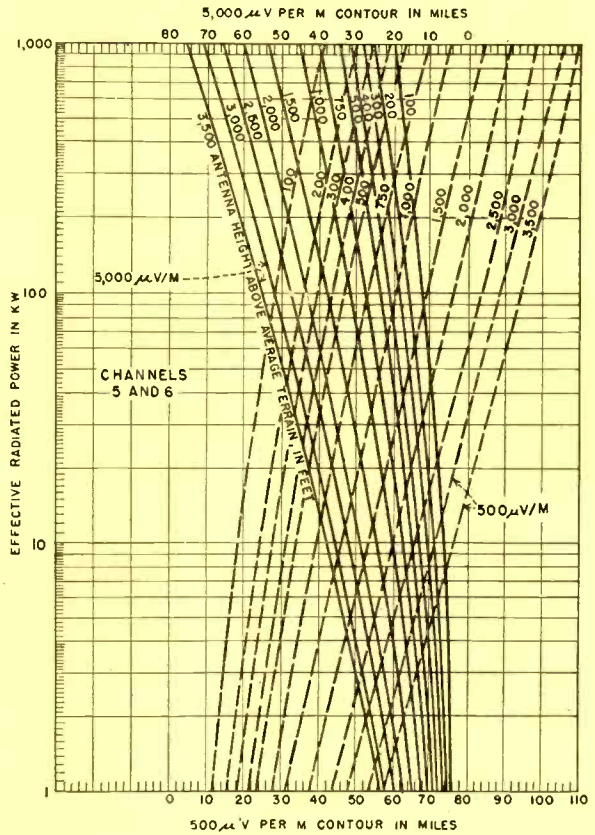
TV SERVICE AREAS

By JOHN H. BATTISON

THESE charts, based upon FCC assumptions and data, provide a quick approximation of television service areas for the 5,000 μ v-per-meter (solid line) and 500 μ v-per-meter (dashed line) contours. Receiving antenna height is assumed to be 30 feet above average terrain.

To determine the distance from a channel-20-kw transmitter 2,000 feet above average terrain to the 5,000- μ v-per-meter contour, enter the appropriate chart at the left and follow the effective radiated power line across to its junction with the solid curve for 2,000 feet. Then read off the distance in miles (29 miles, in this case) from the scale at the top of the graph. The 500- μ v contour from a similar transmitter would be found at 60 miles, using the dashed line for height and the lower scale of miles.

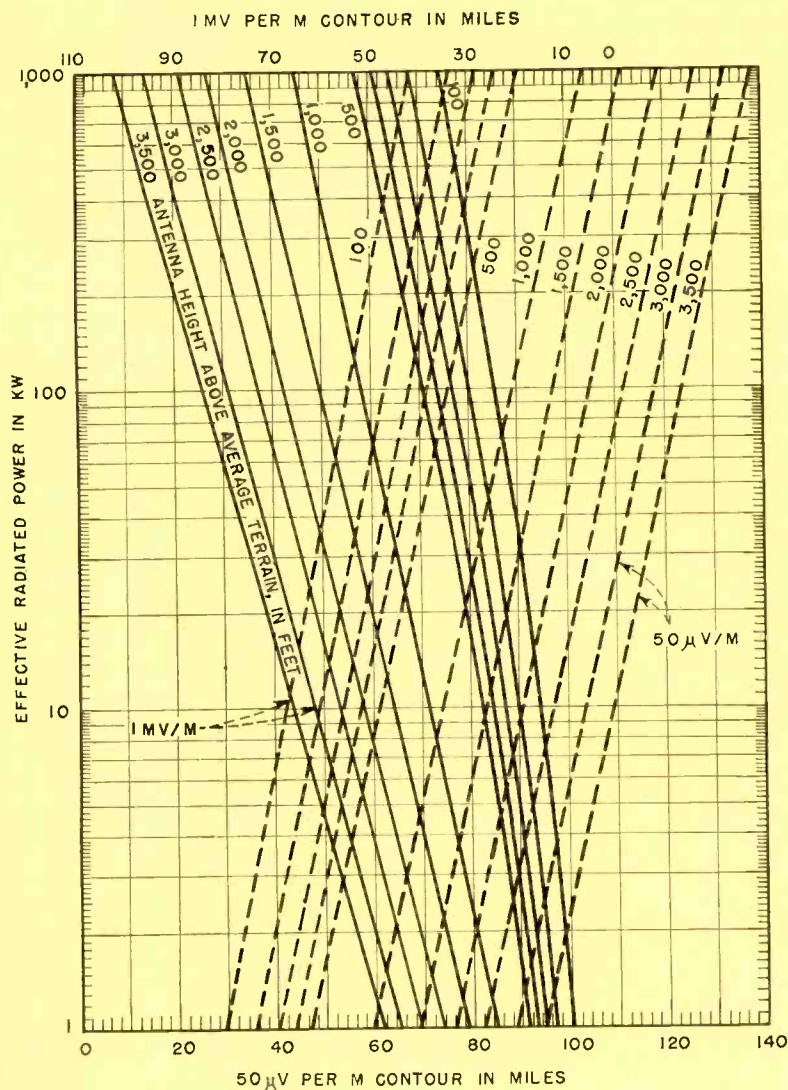
Power and antenna height necessary for desired coverage can also be determined from the charts.



F-M SERVICE AREAS

Chart shows approximate distance to 1-mv-per-meter and 50- μ v-per-meter contours for effective radiated powers between 1 and 1,000 kw and transmitting antenna heights from 100 to 3,500 feet above average terrain

By JOHN H. BATTISON



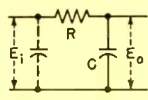
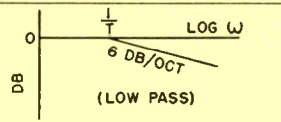
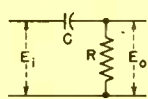
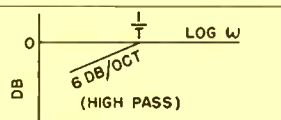
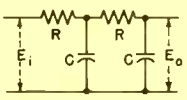
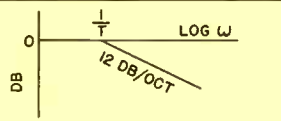
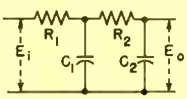
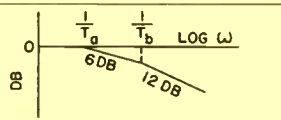
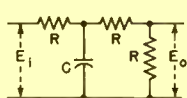
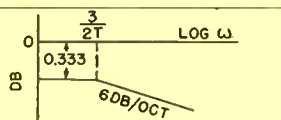
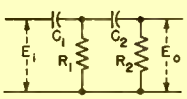
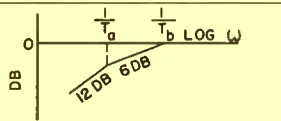
THE accompanying chart, based on FCC data, provides a quick means of determining the approximate service areas of a transmitter operating on any channel between 88 and 108 mc. Distance to the 1-mv-per-meter contour (solid lines) is shown by the upper scale and distance to the 50- μ v-per-meter contour (dashed lines) by the lower scale, for various effective radiated powers and transmitting antenna heights. Receiving antenna height is assumed to be 30 feet above average terrain.

Using the Chart

To determine the distance to the 1-mv-per-meter contour with a transmitting antenna height of 2,000 feet and 20 kw of effective radiated power, enter the chart at the left and, at the point where the 20-kw horizontal line intersects the solid diagonal line labelled 2,000 feet, read on upper scale 57 miles. To determine distance to 50- μ v-per-meter contour follow the same procedure but use the dashed diagonal line labelled 2,000 feet and read the lower scale.

If coverage is desired at a given distance, with a known transmitting antenna height, the effective radiated power required may be read to the left of the point of intersection of appropriate distance and height lines. Similarly, should it be necessary to determine the transmitting antenna height required to provide a certain contour with a given power the chart may be entered from the left and the bottom, and the height read from the appropriate solid or dashed line.

TRANSFER FUNCTIONS for R-C and R-L EQUALIZER NETWORKS

NETWORK	TRANSFER FUNCTION	GAIN CURVE
(1) 	$\frac{1}{1+Tp}$ $\phi = -\tan^{-1}T\omega$	
(2) 	$\frac{Tp}{1+Tp}$ $\phi = 90^\circ - \tan^{-1}T\omega$	
(3) 	$\frac{1}{1+3Tp+T^2p^2}$ $\phi = -\tan^{-1}\frac{3T\omega}{1-T^2\omega^2}$	
(4) 	$\frac{1}{1+(T_1+T_2+R_1C_2)p+T_1T_2p^2}$ $\phi = -\tan^{-1}\frac{(T_1+T_2+R_1C_2)\omega}{1-T_1T_2\omega^2}$	
(5) 	$\frac{1}{3+2Tp}$ $\phi = -\tan^{-1}\frac{2T\omega}{3}$	
(6) 	$\frac{T_1T_2p^2}{1+(T_1+T_2+R_1C_2)p+T_1T_2p^2}$ $\phi = 180^\circ - \tan^{-1}\frac{(T_1+T_2+R_1C_2)\omega}{1-T_1T_2\omega^2}$	

Gain curves and ratios of output to input voltage are given for each of thirty different networks. Phase angle equations are included, from which phase response at several representative frequencies is readily computed

THE accompanying tabulation of transfer functions (the ratio of output to input voltage, E_o/E_i) is the result of attempts to determine the electrical equivalent network of a pneumatic servo system and to find a satisfactory equalizer for that system. The phase angle ϕ between E_o and E_i is also given in the tables. Transfer functions of the elementary networks are included for the sake of completeness. Wherever possible the gain curves are represented by asymptotes and the corner frequency which is the intersection of these asymptotes. Where two or more corners exist, they must be of the order of a decade apart in order that the gain curve may

By E. W. TSCHUDI

be represented by asymptotes. When it is desired to compute the actual gain, p should be replaced by $j\omega$ in the transfer function and the amplitude computed in the usual manner for complex quantities, squaring the real and squaring the imaginary components separately, adding and taking the square root. In these expressions $T = RC$. In No. 1,

$$A = \sqrt{\frac{1}{1+T^2\omega^2}}$$

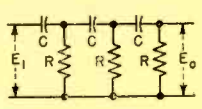
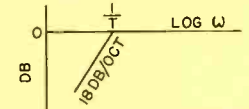
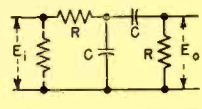
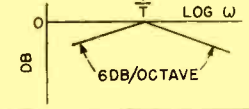
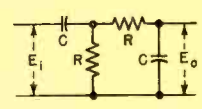
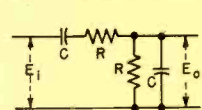
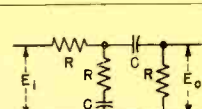
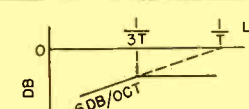
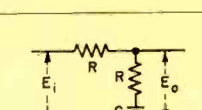
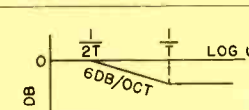
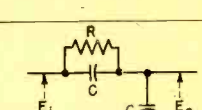
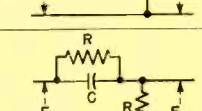
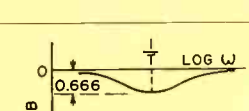
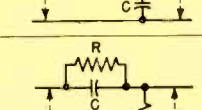
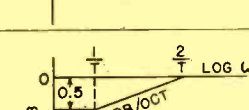
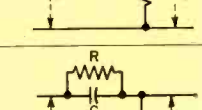
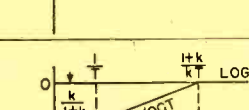
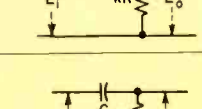
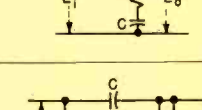
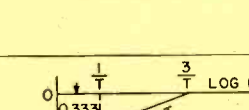
and the gain is $20 \log A$. In networks including inductance, the ohmic resistance of the inductance, R_L , is represented as a practical necessity. Phase re-

sponse curves are not included since it is comparatively simple to compute the phase angle at several representative frequencies. In general the phase angle is positive when the associated gain increases and negative when the gain decreases.

The inclusion of phantom shunt impedances in No. 1 and 8 indicates the transfer functions are not affected by their presence. The values of T_a and T_b in the corner frequencies of No. 4 and 6 are the roots of the quadratic expressions in the denominators of these transfer functions. They are different from the two time constants T_1 and T_2 that are, respectively, R_1C_1 and R_2C_2 .

(Continued on p R-38)

Transfer Functions for R-C and R-L Equalizer Networks (continued)

NETWORK	TRANSFER FUNCTION	GAIN CURVE
(7) 	$\frac{T^3 p^3}{1+5Tp+6T^2p^2+T^3p^3}$ $\phi = 270^\circ - \tan^{-1} \frac{(5-T^2\omega^2)T\omega}{1-6T^2\omega^2}$	
(8) 	$\frac{Tp}{1+3Tp+T^2p^2}$ $\phi = 90^\circ - \tan^{-1} \frac{3T\omega}{1-T^2\omega^2}$	
(9) 	$\frac{Tp}{1+3Tp+T^2p^2}$ $\phi = 90^\circ - \tan^{-1} \frac{3T\omega}{1-T^2\omega^2}$	SAME AS 8
(10) 	$\frac{Tp}{1+3Tp+T^2p^2}$ $\phi = 90^\circ - \tan^{-1} \frac{3T\omega}{1-T^2\omega^2}$	SAME AS 8
(11) 	$\frac{Tp}{1+3Tp}$ $\phi = 90^\circ - \tan^{-1} 3T\omega$	
(12) 	$\frac{1+Tp}{1+2Tp}$ $\phi = \tan^{-1} T\omega - \tan^{-1} 2T\omega$	
(13) 	$\frac{1+Tp}{1+2Tp}$ $\phi = \tan^{-1} T\omega - \tan^{-1} 2T\omega$	SAME AS 12
(14) 	$\frac{(1+Tp)^2}{1+3Tp+T^2p^2}$ $\phi = 2 \tan^{-1} T\omega - \tan^{-1} \frac{3T\omega}{1-T^2\omega^2}$	
(15) 	$\frac{1+Tp}{2+Tp}$ $\phi = \tan^{-1} T\omega - \tan^{-1} \frac{T\omega}{2}$	
(16) 	$\frac{k(1+Tp)}{(1+k)+kTp}$ $\phi = \tan^{-1} T\omega - \tan^{-1} \frac{kT\omega}{1+k}$	
(17) 	$\frac{1+Tp}{2+Tp}$ $\phi = \tan^{-1} T\omega - \tan^{-1} \frac{T\omega}{2}$	SAME AS 15
(18) 	$\frac{1+Tp}{3+Tp}$ $\phi = \tan^{-1} T\omega - \tan^{-1} \frac{T\omega}{3}$	

NETWORK	TRANSFER FUNCTION	GAIN CURVE
(19)	$\frac{(1+Tp)^2}{2+5Tp+T^2p^2}$ $\phi = 2 \tan^{-1} T\omega - \tan^{-1} \frac{5T\omega}{2-T^2\omega^2}$	
(20)	$\frac{1+3Tp}{2+5Tp+T^2p^2}$ $\phi = \tan^{-1} 3T\omega - \tan^{-1} \frac{5T\omega}{2-T^2\omega^2}$	
(21)	$\frac{k(3+Tp)}{3(1+k)+2kTp} = \frac{k[9(1+k)+2k\omega^2T^2+3(1-k)]\omega T}{9(1+k)^2+4k^2\omega^2T^2}$ $\phi = \tan^{-1} \frac{T\omega}{3} - \tan^{-1} \frac{2kT\omega}{3(1+k)}$	<p>j-TERM NEGATIVE FOR k>1 ZERO FOR k=1 POSITIVE FOR k<1</p> $A = k \sqrt{\frac{9+T^2\omega^2}{9(1+k)^2+4k^2T^2\omega^2}}$
(22)	$\frac{R_2(1+T_1p)}{(R_1+R_2)+(R_1T_2+R_2T_1)p}$ $\phi = \tan^{-1} T_1\omega - \tan^{-1} \frac{(R_1T_2+R_2T_1)\omega}{R_1+R_2}$	
(23)	$\frac{R_2(1+3T_1p)(1-T_2p)}{(3R_1+2R_2)+R_2(3T_1-2T_2)p-3T_2(R_1T_2+R_2T_1)p^2}$ $\phi = \tan^{-1} 3T_1\omega - \tan^{-1} T_2\omega - \tan^{-1} \frac{R_2(3T_1-2T_2)\omega}{3R_1+2R_2+3T_2(R_1T_2+R_2T_1)\omega^2}$	
(24)	$\frac{R_2[C_1+(2T_1-T_2)p+T_1(T_1-2T_2)p^2-T_1^2T_2p^3]}{(2R_1+R_2)+(R_1T_1+3R_2T_1-R_2T_2)p+(R_2T_1^2-3R_2T_1T_2-2R_1T_2^2)p^2-T_1(R_1T_2+R_2T_1T_2)p^3}$ $\phi = \tan^{-1} \frac{(2T_1-T_2+T_1^2T_2\omega^2)\omega}{1-T_1(T_1-2T_2)\omega^2} - \tan^{-1} \frac{[R_1T_1+3R_2T_1-R_2T_2+T_1(R_1T_2^2+R_2T_1T_2)\omega^2]\omega}{2R_1+R_2-(R_2T_1^2-3R_2T_1T_2-2R_1T_2^2)\omega^2}$ <p>(LEADING ANGLE)</p>	
(25)	$\frac{R+Lp}{R+R_L+Lp}$ $\phi = \tan^{-1} \frac{L\omega}{R_L} - \tan^{-1} \frac{L\omega}{R+R_L}$	
(26)	$\frac{R}{R+R_L+Lp}$ $\phi = -\tan^{-1} \frac{L\omega}{R+R_L}$	
(27)	$\frac{(R_L+L_1p)(R_L+L_2p)}{[R_1+R_L](R_2+R_L+L_1p)+[R_1+R_L]L_2+(R_2+R_L)L_1+R_1L_1p+L_1L_2p^2}$ $\phi = \tan^{-1} \frac{L_1\omega}{R_L} + \tan^{-1} \frac{L_2\omega}{R_L} - \tan^{-1} \frac{[R_1+R_L]L_2+(R_2+R_L)L_1+R_1L_1\omega}{(R_1+R_L)(R_2+R_L)+R_1L_1-L_1L_2\omega^2}$	
(28)	$\frac{R_1R_2}{[R_1+R_L](R_1+R_2+R_L+L_1p)^2+[R_1+R_L]L_2+(R_1+R_2+R_L)L_1p+L_1L_2p^2}$ $\phi = -\tan^{-1} \frac{[R_1+R_L]L_2+(R_1+R_2+R_L)L_1\omega}{(R_1+R_L)(R_1+R_2+R_L+L_1^2\omega^2)}$	
(29)	$\frac{R+R_L+Lp}{R+2R_L+2Lp}$ $\phi = \tan^{-1} \frac{L\omega}{R+R_L} - \tan^{-1} \frac{2L\omega}{R+2R_L}$	
(30)	$\frac{(R_L+Lp)(1+Tp)}{(R+R_L)+(R_LT+L)p+LTp^2}$ $\phi = \tan^{-1} \frac{L\omega}{R_L} + \tan^{-1} T\omega - \tan^{-1} \frac{(R_LT+L)\omega}{R+R_L-LT\omega^2}$	

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COMPILED BY THE RESEARCH DEPARTMENT OF ELECTRONICS

DIRECTORY SECTION OF THE 1950-1951 electronics BUYERS' GUIDE

In the preparation of **ELECTRONICS BUYERS' GUIDE**, every effort was made to insure the completeness and accuracy of the Directory listings according to the information provided by the manufacturers.

The listings were compiled from information provided by more than 2,500 companies manufacturing electronic or allied products and include all products that will be available in the coming year, insofar as the companies themselves can determine. The completeness and accuracy of the listings are entirely due to the helpful cooperation of these manufacturers.

Products are arranged and indexed in a simple, easy-to-find, telephone-book style. Names of Manufacturers who are advertisers in the **BUYERS' GUIDE** are bold-faced in the listings and page numbers of their advertisements are shown. This makes it possible to obtain complete information on products quickly and easily by referring to the advertising pages.

Several new product headings have been added. Due to lack of sufficient information, only manufacturers who were known are included under these new headings. Listings include an index of registered trade names and an alphabetical listing of all companies engaged in the manufacture of electronic components, complete equipment or allied products.

THIS SYMBOL . . .



. . . before a manufacturer's name in the listings indicates that the product is . . . In Production • Available Within a Reasonable Time • Unrestricted for General Industrial Use

NOTE: This punch-out tab is for your convenience in locating the Directory Section of this issue. Simply push out and fold under. It will then serve as a tab mark to indicate where the listings start.

PUSH OUT
AND FOLD

Alphabetical Listings Of All COMPONENTS—COMPLETE UNITS—ALLIED PRODUCTS Used in Electronic Equipment for All Purposes

The complete electronic and allied product lines of more than twenty-five hundred manufacturers are arranged and indexed in a simple, easy-to-use, telephone book style in the following listings.

Products are listed alphabetically by generic names followed by descriptive or type names where necessary, as **ADAPTERS—Battery**.

For example: To find the manufacturers of wax impregnated capacitors you would turn to the generic product heading **CAPACITORS** and listed alphabetically under that you would find **CAPACITORS—Wax Impregnated**.

The only exceptions are **INSULATING COMPOUNDS; INSULATION MATERIALS; INSULATION PARTS; METALS; PLASTIC MATERIALS; and TUBE PARTS**. Products falling in these classifications are arranged alphabetically under

those six headings.

Cross references are provided wherever necessary to cover names, other than the standard ones, that are sometimes used.

Manufacturers under each product heading are also arranged alphabetically. Those companies who are advertisers in this issue are bold-faced and the page numbers of their advertisements given to permit quick and easy reference for the necessary technical data.

In compiling the listings for this year's **ELECTRONICS BUYERS' GUIDE** extreme care has been taken to ascertain those products which are in production, or available within a reasonable time and, unrestricted for general industrial use. They are identified in the listings by the following symbol . . .



This symbol before a manufacturer's name in the listings indicates that the product is—**In Production • Available Within a Reasonable Time • Unrestricted for General Industrial Use**

ABRASIVES

- Carborundum Co., The, Gload Div., Niagara Falls, N. Y.
- **CLEVELAND CONTAINER CO., THE**, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- Diamond Drill Carbon Co., 53-63 Park Row, New York 7, N. Y.
- Ideal Industries, Inc., Park & Borden Aves., Sycamore, Ill.
- Linde Air Products Co., Unit of Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- **MICO INSTRUMENT CO.**, 80 Trowbridge St., Cambridge 38, Mass. ADV. PG. 263.
- Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul 6, Minn.
- Norton Co., 1 New Bond St., Worcester 6, Mass.
- U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.

ACCELEROMETERS

- Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- Calidyne Co., The, 751 Main St., Winchester, Mass.
- Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- **FLADER, INC., FREDERIC**, North Tonawanda, N. Y. ADV. PG. 240.
- **GULTON MFG. CORP.**, Metuchen, N. J. ADV. PG. 262.
- Hastings Instrument Co., Box 1275, Hampton, Va.
- Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- **KAY ELECTRIC CO.**, 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio
- Miller Corp., Wm., 363 W. Colorado St., Pasadena, Calif.
- North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Schaevitz Engineering, Crescent Blvd., at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- Statham Laboratories, Inc., 9328 Santa Monica Blvd., Beverly Hills, Calif.
- Trans-Sonics, Inc., Bedford Airport, Bedford, Mass.

ADAPTERS—Battery

- **AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- **ALDEN PRODUCTS CO.**, 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.

- Eby Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- **J F D MFG. CO.**, 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.

ADAPTERS—Foreign

- Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Kulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
- Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
- Wood Electric Co., Inc., C. D., 70-17 83rd St., Glendale, L. I., N. Y.

ADAPTERS—Panoramic

- **PANORAMIC RADIO PRODUCTS, INC.**, 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Varo Mfg. Co., Inc., Box 638, Garland, Texas.

ADAPTERS—Phase

- Varo Mfg. Co., Inc., Box 638, Garland, Texas.

ADAPTERS—Short Wave for Radio

- ABC Radio Labs., 3334 N. New Jersey St., Indianapolis 5, Ind.
- Radio Transceiver Labs., 116-23 Jamaica Ave., Richmond Hill 18, N. Y.

ADAPTERS—Test

- **ALDEN PRODUCTS CO.**, 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Globe Products Corp., P. O. Box 197, Southport, Conn.
- Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.

- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Supreme, Inc., Greenwood, Miss.

ADAPTERS—Tube

- **ALDEN PRODUCTS CO.**, 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- **AMERICAN PHENOLIC CORPORATION**, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- **ATOMIC INSTRUMENT CO.**, 160 Charles St., Boston, Mass. ADV. PG. 218.
- **J F D MFG. CO.**, 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- **RADIO CORP. OF AMERICA, RCA Victor Div.**, Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

ADHESIVES

- American Products Mfg. Corp., Oleander & Dublin Sts., New Orleans 18, La.
- Armstrong Cork Co., Lancaster, Pa.
- Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Borden Co., Chemical Div., 350 Madison Ave., New York 17, N. Y.
- Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- Dolph Co., John C., Monmouth Junction, N. J.
- Durez Plastics & Chemicals Inc., 1921 Walck Rd., N. Tonawanda, N. Y.
- Odu Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
- **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
- Plaskon Division, Libbey-Owens-Ford Glass Co., 2112-24 Sylvan Ave., Toledo 6, Ohio.
- Reichold Chemicals, Inc., 601-707 Woodward Heights Blvd., Detroit 20, Mich.
- Sauereisen Cements Co., Sauereisen Bldg., Pittsburgh 15, Pa.
- Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Union Bay State Chemical Co., Cambridge, Mass.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

United Shoe Machinery Corp., 142 Federal St., Boston, Mass.
 Ⓢ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
 Ⓢ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192

ADHESIVES—Waterproof & Corrosion Proof Compounds

Ⓢ American Products Mfg. Co., Oleander & Dublin Sts., New Orleans 18, La.
 Ⓢ Armstrong Cork Co., Laclede & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
 Ⓢ Bakelite Div., Union Carbide, 350 Madison Ave., New York 17, N. Y.
 Ⓢ Borden Co., Chemical Div., & Co., Inc., E. I., Wilmington, Del.
 Ⓢ Durez Plastics Chemicals Inc., 1921 Walck Road, North Tonawanda, N. Y.
 Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. A. A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
 Ⓢ Horn Co., N. Y.
 Ⓢ Insulative Inc., Chemical Div., Koppers Bldg., Pittsburgh 15, Pa.
 Ⓢ Linick Mining & Mfg. Co., 900 Fauquier Ave., St. Marytown, Pa.
 Ⓢ Pinto Chemical Co., Plastics Div., Springfield 2, Mo.
 Ⓢ Wesley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
 Ⓢ Sauereisen Cements Co., Sauereisen Bldg., Pittsburgh 15, Pa.
 Ⓢ Union Bay State Chemical Co., Cambridge, Mass.
 Ⓢ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
 Ⓢ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

AIR CLEANERS—Electrostatic

Ⓢ Inductograph Laboratory, Box 76, Brookfield, Conn.
 Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Ⓢ Trion, Inc., 1000 Island Ave., McKees Rocks, Pa.

ALARM SYSTEMS

See Controls, Alarm System

ALPHA RAY SOURCES

See Isotopes

ALUMINUM OXIDE

See Insulation Materials

AMMETERS

See also Microammeters
 Micro-Microammeters
 Milliammeters

Ⓢ Assembly Products, Inc., Chagrin Falls 6, Ohio.
 Ⓢ Associated Research Inc., 3758 W. Belmont, Chicago 18, Ill.
 Ⓢ Beede Electrical Instrument Co., Inc., Penacook, N. H. Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.
 Ⓢ Burlington Instrument Co., Burlington, Iowa.
 Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Ⓢ Columbia Electric Mfg. Co., 4519 Hamilton Ave., N. E., Cleveland 14, Ohio.
 Ⓢ DEJUR-AMSCO CORP., Northern Blvd., at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
 Ⓢ Electric Design & Mfg. Corp., Burlington, Iowa.
 Ⓢ Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.
 Ⓢ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 16, Ind.
 Ⓢ FERRANTI ELECTRIC CO., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
 Ⓢ Fluke Engineering Co., John, Box 755, Springdale, Conn.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ Industrial Devices, Inc., 22 State Rd., Edgewater, N. J.
 Ⓢ International Instruments Inc., 331 East St., New Haven 11, Conn.
 Ⓢ J. B. T. INSTRUMENTS INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
 Ⓢ McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
 Ⓢ MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
 Ⓢ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind. Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 Ⓢ Norton Electrical Instrument Co., 59 Hilliard St., Manchester, Conn.

Ⓢ Pyramid Instrument Corp., 49 Howard St., New York, N. Y.
 Ⓢ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
 Ⓢ Reliance Instrument Co., 3027 W. Van Buren St., Chicago 12, Ill.
 Ⓢ Roller-Smith, Bethlehem, Pa.
 Ⓢ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
 Ⓢ SHURITE METERS, 61 Hamilton St., New Haven 8, Conn. ADV. PG. 216.
 Ⓢ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
 Ⓢ Sterling Mfg. Co., 9205 Detroit Ave., Cleveland 2, Ohio.
 Ⓢ Supreme, Inc., Greenwood, Miss.
 Ⓢ Triplett Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.
 Ⓢ U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
 Ⓢ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
 Ⓢ Wheelco Instruments Co., 847 Harrison St., Chicago 7, Ill.

AMMETERS—r-f

Ⓢ Assembly Products, Inc., Chagrin Falls 6, Ohio.
 Ⓢ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
 Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Ⓢ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
 Ⓢ Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 Ⓢ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
 Ⓢ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
 Ⓢ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
 Ⓢ Triplett Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

AMPLIFIERS—Audio Frequency

Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
 Ⓢ Air Associates, Inc., Teterboro, N. J.
 Ⓢ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
 Ⓢ ALLIED RADIO CORP., 833 W. Jackson Blvd., Chicago 7, Ill. ADV. PG. 226.
 Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 Ⓢ American Communications Corp., 306 Broadway, New York 7, N. Y.
 Ⓢ American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
 Ⓢ Amplifier Corp. of America, 396 Broadway, New York 13, N. Y.
 Ⓢ Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
 Ⓢ Audio Development Co., 2833 13th Ave. S., Minneapolis 7, Minn.
 Ⓢ Audio Instrument Co., 1947 Broadway, New York 23, N. Y.
 Ⓢ Aurex Corp., 1117 N. Franklin St., Chicago, Ill.
 Ⓢ BALLANTINE LABORATORIES, INC., Bounton, N. J. ADV. PG. 96.
 Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓢ Bell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio.
 Ⓢ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
 Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
 Ⓢ Berndt-Bach Inc., 7377 Beverly Blvd., Los Angeles, Calif.
 Ⓢ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
 Ⓢ Bowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md.
 Ⓢ Breico Electronics Corp., 55 Vandam St., New York 13, N. Y.
 Ⓢ Brociner Electronics Lab., 1546 Second Ave., New York 28, N. Y.
 Ⓢ Brook Electronics, Inc., 34 DeHart Place, Elizabeth, N. J.
 Ⓢ BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
 Ⓢ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Ⓢ CENTRALAB DIV. OF GLOBE-UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
 Ⓢ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 Ⓢ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
 Ⓢ Collins Radio Co., Cedar Rapids, Iowa.
 Ⓢ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
 Ⓢ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
 Ⓢ Cook Laboratories, 139 Gordon Blvd., Floral Park, N. Y.
 Ⓢ Custom Craft Mfg. Co., 256 E. 98th St., Brooklyn, N. Y.
 Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
 Ⓢ Edin Electronics Co., 207 Main St., Worcester, Mass.
 Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Ⓢ Electronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
 Ⓢ EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ Espey Mfg. Co., Inc., 528 E. 72nd St., New York 19, N. Y.
 Ⓢ Fairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
 Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
 Ⓢ FERRANTI ELECTRIC INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
 Ⓢ Fidelity Amplifier Co., 703 Willow St., Chicago 14, Ill.
 Ⓢ Fisher Radio Corp., 41 East 47th St., New York, N. Y.
 Ⓢ Fluke Engineering Co., Inc., Box 755, Springdale, Conn.
 Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
 Ⓢ Galbraith & Son, Inc., C. C., 450-54 Avenue of the Americas, New York 11, N. Y.
 Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.
 Ⓢ Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
 Ⓢ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
 Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
 Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
 Ⓢ Holl Audio Industries, Hollywood Station Box 1230, Hollywood 28, Calif.
 Ⓢ Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
 Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
 Ⓢ Instrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
 Ⓢ Kalbfell Labs. Inc., 1076 Morena Blvd., San Diego 10, Calif.
 Ⓢ KEITHLEY INSTRUMENTS, 1507 Warrensville Center Rd. Cleveland 21, Ohio. ADV. PG. 236.
 Ⓢ Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
 Ⓢ Langevin Manufacturing Corp., 37 W. 65th St., New York 23, N. Y.
 Ⓢ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
 Ⓢ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
 Ⓢ Lexas Mfg. Co., Ann Arbor, Mich.
 Ⓢ Lincrophone Co., Inc., 226 Lansing St., Utica, N. Y.
 Ⓢ Loge Sound Engineers, J. M., 2171 W. Washington Blvd., Los Angeles 7, Calif.
 Ⓢ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 Ⓢ Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
 Ⓢ McIntosh Engineering Laboratory, Inc., 910 King St., Silver Spring, Md.
 Ⓢ M. P. Concert Installations, Fairfield 10, Conn.
 Ⓢ Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
 Ⓢ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Ⓢ Mellaphone Corp., Rochester 2, N. Y.
 Ⓢ Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
 Ⓢ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 Ⓢ National Intercommunicating Systems, 1531 Devon Ave., Chicago 26, Ill.
 Ⓢ National Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
 Ⓢ Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
 Ⓢ Northeastern Engineering, Inc., Manchester, N. H.
 Ⓢ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
 Ⓢ Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
 Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓢ PICKERING & CO., 309 Woods Ave., Oceanside, L. I., N. Y. ADV. PG. 234.
 Ⓢ Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
 Ⓢ Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.

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- ⓂPRESTO RECORDING CORP., Paramus, N. J. ADV. PG. 94, 95.
- ⓂRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓂRadio Craftsman, Inc., 1341 S. Michigan Ave., Chicago 5, Ill.
- Radio-Music Corp., East Port Chester, N. Y.
- ⓂRauland-Borg Corp., 3523 W. Addison St., Chicago 18, Ill.
- ⓂRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓂREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ⓂRek-O-Kut Co., Inc., 3801 Queens Blvd., Long Island City, N. Y.
- ⓂRemler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- Riggs & Jeffreys, Inc., 140 Glenridge Ave., Montclair, N. J.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- ⓂSANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- ⓂSargent-Raymont Co., The, 212 Ninth St., Oakland 7, Cal.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓂSimpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ⓂSomerset Laboratories, Inc., 1701 Palisades Ave., Union City, N. J.
- ⓂSpecial Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.
- ⓂStancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- ⓂStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⓂStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- ⓂTechnology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- Telephonics Corp., Park Ave., Huntington, N. Y.
- ⓂTele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa.
- ⓂThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- ⓂTransmitter Corporation, Inc., 345 Hudson St., New York 14, N. Y.
- ⓂTrans-Sonics, Inc., Bedford Airport, Bedford, Mass.
- Universal Broadcast Equipment Corp., 6035 Northwest Highway, Chicago 31, Ill.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓂWebster Electric Co., 1900 Clark St., Racine, Wis.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- Western Electro-Acoustic Labs., 621 S. Spring St., Los Angeles 14, Calif.
- Western Sound & Electric Labs., Inc., 805 S. 5th St., Milwaukee 4, Wis.
- ⓂZ & W Machine Products, Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

AMPLIFIERS—Audio Input Systems

- Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- ⓂALLIED RADIO CORP., 833 W. Jackson Blvd., Chicago 7, Ill. ADV. PG. 226.
- ⓂAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
- ⓂBARKER & WILLIAMSON, 235 Fairchild Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓂBendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- ⓂBogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- ⓂBrook Electronics, Inc., 34 DeHart Place, Elizabeth, N. J.
- ⓂBunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓂCENTRALAB DIV. OF GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- ⓂCollins Audio Products Co., P. O. Box 368, Westfield, N. J.
- ⓂCollins Radio Co., Cedar Rapids, Iowa.
- ⓂCommercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
- ⓂDoolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- ⓂELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ⓂElectronic Workshop, Inc., 351 Bleecker St., New York 14, N. Y.
- ⓂFairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
- ⓂFeiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- ⓂFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.

- ⓂGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓂGodfrey Mfg. Co., 171 S. 2nd St., Milwaukee 4, Wis.
- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- ⓂLangevin Manufacturing Corp., 37 W. 65th St., New York 23, N. Y.
- ⓂLear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
- Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
- ⓂMcIntosh Engineering Laboratory, Inc., 910 King St., Silver Spring, Md.
- M. P. Concert Installations, Fairfield 10, Conn.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ⓂMinnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- ⓂNational Intercommunicating Systems, 1531 Devon Ave., Chicago 26, Ill.
- ⓂNewcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
- Northeastern Engineering, Inc., Manchester, N. H.
- ⓂNORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- ⓂOrthon Corp., Electronic Div., 196 Albion Ave., Paterson 2, N. J.
- ⓂPICKERING & CO., 309 Woods Ave., Oceanside, L. I., N. Y. ADV. PG. 234.
- ⓂPrecision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- ⓂRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Radio-Music Corp., Port Chester, N. Y.
- ⓂRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓂREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ⓂRek-O-Kut Co., Inc., 38-01 Queens Blvd., Long Island City, N. Y.
- ⓂRemler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓂSimpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ⓂStancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- ⓂStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- ⓂThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Universal Broadcast Equipment Corp., 6035 Northwest Highway, Chicago 31, Ill.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓂWebster Electric Co., 1900 Clark St., Racine, Wis.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- Western Sound & Electric Labs., Inc., 805 S. 5th St., Milwaukee 4, Wis.
- ⓂZ & W Machine Products, Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

AMPLIFIERS—Audio Subminiature

- ⓂWalkirt Co., 5808 Marilyn Ave., Culver City, Calif.

AMPLIFIERS—d-c

- ⓂALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓂAmplifier Corp. of America, 396 Broadway, New York 13, N. Y.
- ⓂAssociated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- ⓂAtlas Coil Winders, Inc., Stamford, Conn.
- ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓂBowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md.
- ⓂBrociner Electronics Lab., 1546 Second Ave., New York 28, N. Y.
- ⓂBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- ⓂC. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- ⓂCollins Radio Co., Cedar Rapids, Iowa.
- ⓂElectro-Mechanical Research, Inc., Ridgefield, Conn.
- ⓂElectronic Associates, Inc., Long Branch, N. J.
- ⓂELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ⓂELECTRONIC TUBE CORP., 1200 E. Mermaid Ave., Philadelphia 18, Pa. ADV. PG. 156.
- ⓂElectronic Workshop, Inc., 351 Bleecker St., New York 14, N. Y.
- ⓂEL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ⓂFurst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
- ⓂGaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.

- ⓂGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- ⓂHanover Developments, 401 E. 74th St., New York 21, N. Y.
- ⓂIndustrial Control Co., 1462 Undercliff Ave., New York 52, N. Y.
- ⓂINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 260.
- ⓂInstrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
- ⓂLear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
- ⓂLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ⓂListon Fob Instrument Co., 392 Slater St., Stamford, Conn.
- Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
- M. P. Concert Installations, Fairfield 10, Conn.
- ⓂMACDONALD & CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
- ⓂMagnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- ⓂManning, Maxwell & Moore, Inc., Stratford, Conn.
- ⓂMiller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.
- ⓂMILLIVAC INSTRUMENTS, Box 3027, New Haven, Conn. ADV. PG. 182.
- Northeastern Engineering, Inc., Manchester, N. H.
- ⓂOffner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
- ⓂPerkin-Elmer Corp., The, Glenbrook, Conn.
- ⓂPhilbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
- ⓂPhilo Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓂPhotocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- ⓂPhotron Instrument Co., 6516 Detroit Ave., Cleveland 2, Ohio.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- ⓂRAHM INSTRUMENTS INC., 12 W. Broadway, New York 7, N. Y. ADV. PG. 178.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- ⓂSANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- ⓂSERVO CORP. OF AMERICA, 2020 Jericho Turnpike, New Hyde Park, N. Y. ADV. PG. 269.
- ⓂSERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. Y. ADV. PG. 187.
- Sherron Electronics Co., 1281 Flushing Ave., Brooklyn 6, N. Y.
- ⓂSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- ⓂStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⓂTech Laboratories, Inc., Bergen & Edsall Bldvs., Palisades Park, N. J.
- ⓂTektronix, Inc., 712 S. E. Hawthorne Blvd., Portland 14, Ore.
- ⓂVickers Electric Division, Vickers Inc., 1815 Locust St., St. Louis 3, Mo.
- ⓂWATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- ⓂZ & W Machine Products, Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

AMPLIFIERS—Decade

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓂBALLANTINE LABORATORIES, INC., Boonton, N. J. ADV. PG. 96.
- ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓂElectronic Associates, Inc., Long Branch, N. J.
- ⓂFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ⓂHEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ⓂINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- ⓂKalbfell Labs. Inc., 1076 Morena Blvd., San Diego 10, Calif.
- ⓂKEITHLEY INSTRUMENTS, 1507 Warrensville Center Rd., Cleveland 21, Ohio. ADV. PG. 236.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- M. P. Concert Installations, Fairfield 10, Conn.
- ⓂPhilo Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Radio-Music Corp., Port Chester, N. Y.
- ⓂStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⓂTechnology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.

AMPLIFIERS—Differentiating

- ⓂWalkirt Co., 5808 Marilyn Ave., Culver City, Calif.

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AMPLIFIERS—f-m & a-m Antenna

- American Communications Corp., 306 Broadway, New York 7, N. Y.
 ⓈBrach Mfg. Corp., 200 Central Ave., Newark 4, N. J. Crystal Devices Co., Inc., 50 Mill Rd., Freeport, N. Y.
 ⓈDoolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
 Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 ⓈIntra-Video Corp. of America, 238 William St., New York 7, N. Y.
 ⓈJerrold Electronics Corp., 121 N. Broad St., Philadelphia, Pa.
 Monroe Coil Co., 2839 Narragansett Ave., Chicago 34, Ill.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back & Back Covers.
 Radio-Music Corp., Port Chester, N. Y.
 ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 ⓈSPENCER-KENNEDY LABS., INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
 ⓈTelevision Equipment Corp., 238 William St., New York, N. Y.
 West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.

AMPLIFIERS—Facsimile

- ⓈAcme Telectronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
 ⓈALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 ⓈHogan Laboratories, Inc., 155 Perry St., New York 14, N. Y.
 ⓈMcElroy, Mfg. Corp., Littleton, Mass.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈPress Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
 ⓈTIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.
 West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.

AMPLIFIERS—Keying

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
 ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
 ⓈBoehme Inc., H. O., 915 Broadway, New York 10, N. Y.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Erco Radio Labs., Inc., E. Stewart Ave., Garden City, N. Y.
 ⓈGates Radio Co., Quincy, Ill.
 ⓈMcElroy Mfg. Corp., Littleton, Mass.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈPress Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
 ⓈRemler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
 Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
 ⓈSchuttig & Co., Inc., 9th & Kearney Sts., NE, Washington 17, D. C.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

AMPLIFIERS—Medical Instrument

- ⓈALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
 ⓈAssociated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
 ⓈAtlas Coil Winders, Inc., Stamford, Conn.
 ⓈATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
 ⓈAudio Development Co., 2833 13th Ave. So., Minneapolis 7, Minn.
 ⓈCENTRALAB DIV. OF GLOBE-UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
 ⓈCENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 19, Okla. ADV. PG. 237.
 Dalons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
 ⓈEdin Electronics Co., 207 Main St., Worcester, Mass.
 ⓈElectro-Medical Lab., Inc., Holliston, Mass.
 ⓈElectrofax Corp., 30 Burtis Ave., New Canaan, Conn.
 ⓈFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
 ⓈHathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
 ⓈHoffmann Corp., C. L., 436 Blvd. of Allies, Pittsburgh 19, Pa.
 ⓈInductograph Laboratory, Box 76, Brookfield, Conn.

- ⓈINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
 ⓈLaurehk Radio Mfg. Co., 3931 Monroe Ave., Wayne, Mich.
 ⓈLAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
 Liston Folb Instrument Co., 392 Slater St., Stamford, Conn.
 ⓈMinnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
 ⓈNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 ⓈOffner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈPhotocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
 Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
 ⓈRadiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 ⓈRAHM INSTRUMENTS, INC., 12 West Broadway, New York 7, N. Y. ADV. PG. 178.
 ⓈSANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 ⓈTech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

AMPLIFIERS—Microwave

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
 ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 ⓈELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 ⓈFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
 ⓈFEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 ⓈLear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
 Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 ⓈMicrowave Equipment Co., Inc., North Caldwell, N. J.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈPress Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
 ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 ⓈSPERRY GYROSCOPE CO. DIV. OF THE SPERRY CORP., Great Neck, N. Y. ADV. PG. 85, 86.
 ⓈVarian Associates, 99 Washington St., San Carlos, Calif.
 West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
 ⓈWeymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

AMPLIFIERS—Microwave Radar

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
 ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 ⓈElectronic Associates, Inc., Long Branch, N. J.
 ⓈELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 ⓈFEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈPress Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
 ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn, N. Y.
 ⓈSPERRY GYROSCOPE CO. DIV. OF THE SPERRY CORP., Great Neck, N. Y. ADV. PG. 85, 86.
 ⓈSubmarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.

AMPLIFIERS—Musical Instrument

- American Communications Corp., 306 Broadway, New York 7, N. Y.
 American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
 ⓈAmplifier Corp. of America, 396 Broadway, New York 13, N. Y.
 ⓈBell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio.
 ⓈBogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
 ⓈBowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md.
 ⓈCENTRALAB DIV. OF GLOBE-UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.

- ⓈFeiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
 ⓈHEATH CO., Benton Harbor, Mich. ADV. PG. 279.
 ⓈMinnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
 ⓈMagna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
 ⓈNational Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
 ⓈNewcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
 ⓈPenatron Corp., The, 611 W. Division St., Chicago 10, Ill.
 ⓈScott, Inc., Herman Hosmer, 385 Putnam Ave., Cambridge 39, Mass.
 ⓈScott Radio Labs., Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 ⓈSimpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
 Universal Broadcast Equipment Corp., 6035 Northwest Highway, Chicago 31, Ill.
 ⓈValco Mfg. Co., 4700 W. Walton St., Chicago 51, Ill.
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
 Western Sound & Electric Labs., Inc., 805 S. 5th St., Milwaukee 4, Wis.

AMPLIFIERS—Peak Limiting

- ⓈAcme Telectronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
 ⓈAitec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 American Electroneering Co., 2112 LaBrea Ave., Los Angeles, Calif.
 ⓈAmplifier Corp. of America, 396 Broadway, New York 13, N. Y.
 ⓈArlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
 ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 ⓈCollins Radio Co., Cedar Rapids, Iowa.
 ⓈELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 ⓈEL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 ⓈGates Radio Co., Quincy, Ill.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈPRESTO RECORDING CORP., Paramus, N. J. ADV. PG. 94, 95.
 ⓈPress Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., general offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back & Back Covers.
 ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 ⓈSchuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 ⓈStancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
 ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
 ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 ⓈTransmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
 West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.

AMPLIFIERS—Photocell

- ⓈAcme Telectronix Div. of NEA Service, Inc., W. Third & Lakeside, Cleveland 13, Ohio.
 ⓈAirlectron, P. O. Box 151, Caldwell, N. J.
 ⓈALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 ⓈAitec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
 Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
 ⓈAtlas Coil Winders, Inc., Stamford, Conn.
 ⓈATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
 ⓈBogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
 ⓈBrociner Electronics Lab., 1546 Second Ave., New York 28, N. Y.
 ⓈElectro-Mechanical Research, Inc., Ridgefield, Conn.
 ⓈElectronic Control Corp., 1573 E. Forest St., Detroit, Mich.
 ⓈEL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 ⓈFidelity Amplifier Co., 703 Willow St., Chicago 14, Ill.
 ⓈFORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. City 1, N. Y. ADV. PG. 278.
 ⓈGates Radio Co., Quincy, Ill.

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- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈHoffman Engineering Corp., Anoka, Minn.
- ⓈIndustrial Electronics Co., Inc., Hanover, Mass.
- ⓈINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- ⓈLincophone Co., Inc., 226 Lansing St., Utica, N. Y.
- ⓈMACDONALD & CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
- ⓈMachine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- ⓈManning, Maxwell Moore, Inc., Stratford, Conn.
- ⓈMcElroy Mfg. Corp., Littleton, Mass.
- ⓈMellaphone Corp., Rochester 2, N. Y.
- ⓈMinnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- ⓈNewcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈPhotobell Company, 116 Nassau St., New York 7, N. Y.
- ⓈPOTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- ⓈPrecision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⓈTech Laboratories, Inc., Bergen & Edsall Blvd., Palisades Park, N. J.
- ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓈWorner Electronic Devices, Rankin, Illinois.

AMPLIFIERS—Power

- ⓈALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- American Electronizing Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓈAmplifier Corp. of America, 396 Broadway, New York 13, N. Y.
- ⓈApplied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
- ⓈBARKER WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈBell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio.
- ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ⓈBogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- ⓈBritish Industries Corp., 164 Duane St., New York 13, N. Y.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Calbest Engineering & Electronics Co., 828 N. Highland Ave., Hollywood 38, Calif.
- ⓈCollins Radio Co., Cedar Rapids, Iowa.
- ⓈDoolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- ⓈELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ⓈElectronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
- ⓈEL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ⓈFairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
- ⓈFidelity Amplifier Co., 703 Willow St., Chicago 14, Ill.
- ⓈFORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. C. 1, N. Y. ADV. PG. 278.
- ⓈFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ⓈGates Radio Co., Quincy, Ill.
- ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓈHEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- ⓈLangevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y.
- ⓈLear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- ⓈLyman Electronic Corp., 12 Cass St., Springfield, Mass.
- ⓈMinnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- ⓈMcIntosh Engineering Laboratory, Inc., 910 King St., Silver Spring, Md.
- ⓈMagna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.

- ⓈMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓈMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓈNewcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
- ⓈPrecision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Radio-Music Corp., Port Chester, N. Y.
- ⓈRauland-Borg Corp., 3523 W. Addison St., Chicago 18, Ill.
- ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓈRemler Co., Ltd., 2101 Bryant St., San Francisco, Calif.
- Riggs & Jeffreys, Inc., 140 Glenridge Ave., Montclair, N. J.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- ⓈSchuttig & Co., Inc., 9th & Kearney Sts. NE, Washington 17, D. C.
- ⓈScott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.
- ⓈScott Radio Labs, Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈSimpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ⓈStancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- ⓈTransmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Universal Broadcast Equipment Corp., 6035 Northwest Highway, Chicago 31, Ill.
- ⓈVickers Electric Division, Vickers Inc., 1815 Locust St., St. Louis 3, Mo.
- ⓈWebster Electric Co., 1900 Clark St., Racine, Wis.
- Western Sound & Electric Labs., Inc., 805 S. 5th St., Milwaukee 4, Wis.

AMPLIFIERS—r-f

- ⓈAir Associates, Inc., Teterboro, N. J.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- American Electronizing Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓈAutomatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓈCollins Radio Co., Cedar Rapids, Iowa.
- Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ⓈDoolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- ⓈELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ⓈEL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ⓈFEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ⓈFerris Instrument Co., 110 Cornelia St., Boonton, N. J.
- ⓈGates Radio Co., Quincy, Ill.
- ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓈHEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- ⓈINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- ⓈJerrold Electronics Corp., 121 N. Broad St., Philadelphia, Pa.
- ⓈKaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- ⓈKAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ⓈLear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- ⓈLynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
- ⓈMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Northeastern Engineering, Inc., Manchester, N. H.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈPlastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- ⓈPress Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓈScott Radio Labs, Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

- ⓈSPENCER-KENNEDY LABS, INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- ⓈTECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- ⓈTeletronics Laboratory, Inc., 352 Maple Ave., Westbury, L. I., N. Y.
- ⓈTransmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.

AMPLIFIERS—Servo

- ⓈAir Associates, Inc., Teterboro, N. J.
- American Electronizing Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
- ⓈARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
- ⓈAskania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓈCollins Radio Co., Cedar Rapids, Iowa.
- ⓈControl Engineering Corp., 863 Washington St., Canton, Mass.
- ⓈEdo Corp., College Point, Long Island, N. Y.
- ⓈElectronic Associates, Inc., Long Branch, N. J.
- FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ⓈGaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
- ⓈLear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ⓈMACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
- ⓈMagnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈPlastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- ⓈReeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- ⓈSchaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- ⓈServomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.
- ⓈSERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson, N. J. ADV. PG. 187.
- Sherron Electronics Co., 1601 Flushing Ave., Brooklyn 6, N. Y.
- ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⓈTransmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- ⓈVickers Electric Division, Vickers Inc., 1815 Locust St., St. Louis 3, Mo.

AMPLIFIERS—Strain Gage

- ⓈALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- ⓈApplied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- ⓈBaldwin Locomotive Works, Philadelphia 42, Pa.
- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓈCENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- ⓈCommercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
- ⓈConsolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- ⓈControl Engineering Corp., 863 Washington St., Canton, Mass.
- ⓈEdin Electronics Co., 207 Main St., Worcester, Mass.
- ⓈELECTRONIC TUBE CORP., 1200 E. Mermaid Ave., Philadelphia 18, Pa. ADV. PG. 156.
- Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
- ⓈFurst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
- ⓈHanover Developments, 401 E. 74th St., New York 21, N. Y.
- ⓈHathaway Instrument Co., 1315 S. Clark St., Denver 10, Colo.
- ⓈHEILAND RESEARCH CORP., 150 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
- ⓈINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.

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- Ⓢ MACDONALD CO., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
- MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
- Ⓢ Miller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.
- Ⓢ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓢ North American Philips Co., 100 E. 42nd St., New York 17, N. Y.
- Ⓢ Offner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ RAHM INSTRUMENTS, INC., 12 West Broadway, New York 7, N. Y. ADV. PG. 178.
- Ⓢ Ruge-de Forest, Inc., 76 Massachusetts Ave., Cambridge 39, Mass.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvd., Palisades Park, N. J.
- Ⓢ Trans-Sonics, Inc., Bedford Airport, Bedford, Mass.
- Ⓢ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Ⓢ Vickers Electric Division, Vickers Inc., 1815 Locust St., St. Louis 3, Mo.
- Ⓢ WATERMAN PRODUCTS CO., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.

AMPLIFIERS—Television

- American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓢ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- Ⓢ Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ Intra-Video Corp. of America, 238 William St., New York 7, N. Y.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓢ Jerrold Electronics Corp., 121 N. Broad St., Philadelphia, Pa.
- Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
- Ⓢ Lynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
- M. P. Concert Installations, Fairfield 10, Conn.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- Ⓢ Moulc Specialties Co., 1005-1007 W. Washington St., Bloomington, Ill.
- Ⓢ Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
- Ⓢ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back & Back Covers.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Simpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
- Smucker & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓢ SPENCER-KENNEDY LABS, INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- Ⓢ STANDARD COIL PRODUCTS CO., 2329 N. Pujaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Ⓢ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Telequip Radio Co., 1901 S. Washtenaw, Chicago, Ill.
- Ⓢ Television Equipment Corp., 238 William St., New York 7, N. Y.
- Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.
- Ⓢ Tel-Instrument Co., Inc., 50 Paterson Ave., East Rutherford, N. J.
- Video Corp. of America, 229 W. 28th St., New York 1, N. Y.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.

AMPLIFIERS—Ultrasonic

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- Ⓢ Edo Corp., College Point, Long Island, N. Y.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ KEITHLEY INSTRUMENTS, 1507 Warrensville Center Rd., Cleveland 21, Ohio. ADV. PG. 236.
- Ⓢ McIntosh Engineering Laboratory, Inc., 910 King St., Silver Spring, Md.
- Ⓢ Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- Ⓢ Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Remler Co., Ltd., 2101 Bryant Ave., San Francisco, Calif.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ SPENCER-KENNEDY LABS, INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- Ⓢ Triplett & Barton, Inc., 831 N. Lake St., Burbank, Calif.

AMPLIFIERS—Vibration Pickup

- Ⓢ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓢ CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Oklahoma. ADV. PG. 237.
- Ⓢ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
- Ⓢ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- Ⓢ EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓢ First Electronics, 10A S. Jefferson St., Chicago 6, Ill.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ Hanover Developments, 401 E. 74th St., New York 21, N. Y.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
- Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Ⓢ Lear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
- Ⓢ Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- Ⓢ Miller Corp., William, 362 W. Colorado St., Pasadena, Calif.
- Ⓢ Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
- Ⓢ North American Philips Co., 100 E. 42nd St., New York 17, N. Y.
- Ⓢ Offner Electronics Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
- Radio-Music Corp., Port Chester, N. Y.
- Ⓢ RAHM INSTRUMENTS, INC., 12 W. Broadway, New York 7, N. Y. ADV. PG. 178.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- Ⓢ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓢ WATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.
- Western Sound & Electric Labs., Inc., 805 S. Fifth St., Milwaukee 4, Wis.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

AMPLIFIERS—Wideband

- American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓢ First Electronics, 10A S. Jefferson St., Chicago 6, Ill.

- Ⓢ Hanover Developments, 401 E. 74th St., New York 21, N. Y.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓢ Kalbfell Labs, Inc., 1076 Morena Blvd., San Diego 10, Calif.
- Ⓢ Lynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
- Ⓢ McIntosh Engineering Laboratory, Inc., 910 King St., Silver Spring, Md.
- MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
- Ⓢ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa. Network Mfg. Corp., Bayonne, N. J.
- Ⓢ Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
- Ⓢ Philco Corp. Tioga & C Sts., Philadelphia 34, Pa.
- Phillips Petroleum Co., Special Products Div., Bartlesville, Okla.
- Ⓢ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓢ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
- Radio-Music Corp., Port Chester, N. Y.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Schuttig & Co., Inc., 9th & Kearney Sts. N., Washington 17, D. C.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ SPENCER-KENNEDY LABS, INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- Ⓢ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- Ⓢ Tektronix, Inc., 712 S. E. Hawthorne Blvd., Portland 14, Ore.
- Ⓢ Television Equipment Corp., 238 William St., New York 7, N. Y.
- Ⓢ Tel-Instrument Co., Inc., 50 Paterson Ave., E. Rutherford, N. J.
- Ⓢ Tracerlab, Inc., 130 High St., Boston 10, Mass.
- Ⓢ U. S. Electronic Co., 262 Canner St., New Haven 11, Conn.
- Ⓢ WATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa.

ANALYZERS—Audio Amplifier

- Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Calbest Engineering & Electronics Co., 828 N. Highland Ave., Hollywood 38, Calif.
- Coastwise Electronics Co., Inc., 130 Beaudry Ave., Los Angeles, Calif.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitehouse, N. Y.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ Hofmann Corp., C. L., 436 Blvd. of Allies, Pittsburgh, Pa.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

ANALYZERS—Capacitor

- Ⓢ Clough Brengle Co., 6014 N. Broadway, Chicago, Ill.
- Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓢ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Ⓢ Sprague Electric Co., North Adams, Mass.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

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ANALYZERS—Circuit

- Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Electric Heat Control Co., The, 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓢ Electronic Workshop, Inc., 351 Bleecker St., New York 14, N. Y.
- Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- Ⓢ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ Simpson Electric Co., Div. American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

ANALYZERS—Frequency

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓢ Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

ANALYZERS—Gas

- Ⓢ Applied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
- Ⓢ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓢ Baird Associates, Inc., 33 University Rd., Cambridge 38, Mass.
- Ⓢ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓢ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- Ⓢ Electric Heat Control Co., The, 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓢ Gow-Mac Instrument Co., 22 Lawrence St., Newark 5, N. J.
- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

ANALYZERS—Harmonic

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ MICO INSTRUMENT CO., 80 Trowbridge St., Cambridge 38, Mass. ADV. PG. 263.
- Ⓢ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ Scott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.

ANALYZERS—Intermodulation

- Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓢ Audio Instrument Co., 1947 Broadway, New York 23, N. Y.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.

- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ PICKERING & CO., 309 Woods Ave., Oceanside, L. I., N. Y., ADV. PG. 234.
- Ⓢ Scott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.

ANALYZERS—Magnetic

- Ⓢ DuMont Labs, Inc., Allen B., 2 Main Ave., Passaic, N. J.
- Ⓢ H.M.R. Electronics, Inc., Grove St., New Canaan, Conn.
- Ⓢ SPERRY PRODUCTS, INC., Danbury, Conn. ADV. PG. 54.

ANALYZERS—Microwave Radar

- Ⓢ Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- Ⓢ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

ANALYZERS—Noise

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ Scott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.

ANALYZERS—Servo

- Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓢ KROHN-HITE INSTRUMENT CO., 580 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 128.
- Ⓢ Philbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Ⓢ SERVO CORP. OF AMERICA, 2020 Jericho Turnpike, New Hyde Park, N. Y. ADV. PG. 269.
- Ⓢ Servomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

ANALYZERS—Spectrum

- Ⓢ Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.
- Ⓢ Electronic Associates, Inc., Long Branch, N. J.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept. Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ Leru Laboratories, Inc., 360 Bleecker St., New York 14, N. Y.
- Ⓢ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ Perkin-Elmer Corp., The, Glenbrook, Conn.
- Ⓢ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓢ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Western Electro-Acoustic Labs., 621 S. Spring St., Los Angeles 14, Calif.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

ANALYZERS—Surface Analyzers & Comparators

- Ⓢ Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓢ Photon Instrument Co., 6516 Detroit Ave., Cleveland 2, Ohio.
- Ⓢ Scherr Co., Inc., George, 200 Lafayette St., New York 12, N. Y.

ANALYZERS—Ultrasonic

- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

ANALYZERS—Vibration

- Ⓢ AIRCRAFT ELECTRONICS ASSOCIATES, INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- Ⓢ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓢ Calidyne Co., The, 751 Main St., Winchester, Mass.
- Ⓢ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- Ⓢ Electro Products Labs., Inc., 549 W. Randolph St., Chicago 6, Ill.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ Miller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

ANALYZERS—Video

- Ⓢ Back Video Corp., F. G., Room 2223, 500 Fifth Ave., New York, N. Y.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.

ANALYZERS—Wave

- Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Electrodyne Company, 32 Oliver St., Boston, Mass.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ Scott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.

ANCHORS—Screw or Bolt

- Ⓢ Ackerman-Johnson Co., 625 Jackson Blvd., Chicago 6, Ill.
- Ⓢ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Ⓢ Arro Expansion Bolt Co., Boone Ave., Marion, Ohio.
- Ⓢ Chicago Expansion Bolt Co., 1338 W. Concord Place, Chicago 22, Ill.
- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Ⓢ Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ National Screw & Mfg. Co., Cleveland 4, Ohio.
- Ⓢ Prestole Corp., 3119 Bellevue Rd., Toledo 6, Ohio.
- Ⓢ Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.

ANTENNA DRAG UNITS

- Ⓢ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- Ⓢ Lear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
- Ⓢ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

ANTENNA FAIRLEADS

- V Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- National Electrical Machine Shops, Inc., 919 Jesup-Blair Drive, Silver Spring, Md.
- Telephonics Corp., Park Ave., Huntington, N. Y.

ANTENNA FEED SYSTEMS

- V Air Associates, Inc., Teterboro, N. J.
- V American Communications Corp., 306 Broadway, New York 7, N. Y.
- V Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- V Collins Radio Co., Cedar Rapids, Iowa.
- V Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- V J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- V Johnson Co., E. F., Waseca, Minn.
- V Lynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
- V Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- V Network Mfg. Corp., Bayonne, N. J.
- V Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- V Product Development Co., Inc., Arlington, N. J.
- V RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- V REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- V Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.
- V Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- V Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.

ANTENNA KITS

- V Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- V Alpha Wire Corp., 50 Howard St., New York, N. Y.
- V American Communications Corp., 306 Broadway, New York 7, N. Y.
- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- V AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- V Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- V Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Birnback Radio Co., Inc., 145 Hudson St., New York, N. Y.
- V Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- V Channel Master Co., Ellenville, N. Y.
- V Collins Radio Co., Cedar Rapids, Iowa.
- V Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- V Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- V CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- V Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- V FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- V GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- V Gordon Specialties Co., 906 W. North Ave., Chicago 22, Ill.
- Haydu Brothers, Plainfield, N. J.
- Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- V INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- V J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- V Johnson Co., E. F., Waseca, Minn.
- V Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- V Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- V Network Mfg. Corp., Bayonne, N. J.
- V Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- V Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- V Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- V Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- V Product Development Co., Inc., Arlington, N. J.
- V RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- V Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- V Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.

- V TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.
- V Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- V U.H.F. Resonator Co., 224 Seventh St., Racine, Wis.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- V Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- V Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.
- V Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNA PEDESTALS—Gear Driven Radar

- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- V BREEZE CORPNS., INC., 41 S. Sixth St., Newark 7, N. J. ADV. PG. 93.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- V Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- V Electronic Associates, Inc., Long Branch, N. J.
- V Foote Brothers Gear & Machine Corp., 4545 S. Western Blvd., Chicago 9, Ill.
- V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- V RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- V Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- V Rostan Corp., 202 E. 44th St., New York 17, N. Y.
- V Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

ANTENNA REELS

- V Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- V Air Associates, Inc., Teterboro, N. J.
- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- V Lear, Inc., 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- V Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- National Electrical Machine Shops, Inc., 919 Jesup-Blair Drive, Silver Spring, Md.

ANTENNA REFLECTORS—Radar Parabolic

- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- V Collins Radio Co., Cedar Rapids, Iowa.
- V Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- V Electronic Associates, Inc., Long Branch, N. J.
- V Gorham Co., Bronze Div., Providence 7, R. I.
- V Gray Mfg. Co., The, 16 Arbor St., Hartford, Conn.
- V I-T-E. CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.
- Kennedy & Co., D. S., Cohasset, Mass.
- V Kent Co., F. C., 64-72 Howard St., Irvington, N. J.
- V MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- V Network Mfg. Corp., Bayonne, N. J.
- V Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- V Product Development Co., Inc., Arlington, N. J.
- V Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- V RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- V RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- V SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- V Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Teiner Engineering Corp., 115 Madison St., Malden 48, Mass.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- V Workshop Associates, Inc., 66 Needham Street, Newton Highlands 61, Mass.

ANTENNA ROTATORS

- V Alliance Manufacturing Co., Lake Park Blvd., Alliance, Ohio.
- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.

- V Collins Radio Co., Cedar Rapids, Iowa.
- V CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- V Gordon Specialties Co., 906 W. North Ave., Chicago 22, Ill.
- V Haydu Brothers, Plainfield, N. J.
- V Johnson Co., E. F., Waseca, Minn.
- V Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- V Radiart Corp., The, 3571 W. 62nd St., Cleveland, Ohio.
- V RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

ANTENNA TOWERS & SUPPORTS

- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- V Blaw-Knox Co., Farmers Bank Bldg., Pittsburgh, Pa.
- V Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- V Easy-Up Tower Co., 3800 Kinzie Ave., Racine, Wis.
- V Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- V GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Gonset Co., 72 E. Tujunga Ave., Burbank, Calif.
- V International Derrick & Equipment Co., 875 Michigan Ave., Columbus 8, Ohio.
- V J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- V La Pointe-Plascomold Corp., Unionville, Conn.
- V Lehigh Structural Steel Co., 17 Battery Pl., New York 4, N. Y.
- V Lingo & Son, Inc., John E., 28th St. & Buren, Camden, N. J.
- V Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- V Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- V RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- V RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- V Rostan Corp., 202 E. 44th St., New York 17, N. Y.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- V TRUSCON STEEL CO., Youngstown, Ohio. ADV. PG. 173.
- V Wincharger Corp., E. 7th & Division Sts., Sioux City, Iowa.
- V Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.

ANTENNA TUNING UNITS

- V Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- V Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- American Electroneering Co., 2112 LaBrea Ave., Los Angeles, Calif.
- V BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- V Collins Radio Co., Cedar Rapids, Iowa.
- Erco Radio Labs, Inc., E. Stewart Ave., Garden City, N. Y.
- V FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- V Gates Radio Co., Quincy, Ill.
- V Johnson Co., E. F., Waseca, Minn.
- V Kent Co., F. C., 64-72 Howard St., Irvington, N. J.
- V Kinos Electronics Co., Inc., 811 Lexington Ave., Brooklyn 23, N. Y.
- V Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- V Network Mfg. Corp., Bayonne, N. J.
- V NORTHERN RADIO CO., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- V RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- V REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- V Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

ANTENNAS—Airborne Radar Spinner

- V Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- V Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- V Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.
- V Gorham Co., Bronze Div., Providence 7, R. I.
- V Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- V RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

ⓧ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓧ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓧ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—Aircraft Type

- ⓧ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- ⓧ Air Associates, Inc., Teterboro, N. J.
- ⓧ Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, N. Y.
- ⓧ AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓧ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- ⓧ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ⓧ BIRD ELECTRONIC CORP., 1800 E. 38th St., Cleveland 14, Ohio. ADV. PG. 184, 185.
- ⓧ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- ⓧ Collins Radio Co., Cedar Rapids, Iowa.
- ⓧ FLADER, INC., FREDERICK, North Tonawanda, N. Y. ADV. PG. 240.
- ⓧ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓧ Lear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
- ⓧ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- ⓧ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- ⓧ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓧ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ⓧ Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- ⓧ Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- ⓧ Wickwire Spencer Steel Div., The Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y.
- ⓧ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—All Wave Receiving

- ⓧ American Communications Corp., 306 Broadway, New York 7, N. Y.
- ⓧ Amy, Aceves & King Inc., 11 W. 42nd St., New York 18, N. Y.
- ⓧ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- ⓧ Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- ⓧ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- ⓧ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓧ Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- ⓧ Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- ⓧ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓧ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓧ Radiart Corp., 3571 W. 62nd St., Cleveland, Ohio.
- ⓧ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓧ Scott Radio Labs, Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill.
- ⓧ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- ⓧ U. H. F. Resonator Co., 224 Seventh St., Racine, Wis.
- ⓧ Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- ⓧ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.

ANTENNAS—Auto

- ⓧ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- ⓧ Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
- ⓧ Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- ⓧ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓧ Dielectric Products Co., Inc., 125 Virginia Ave., Jersey City 5, N. J.
- ⓧ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓧ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓧ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- ⓧ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- National Electronic Mfg. Corp., 35-05 36th St., Long Island City 5, N. Y.
- ⓧ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓧ Philson Mfg. Co., Inc., 60-66 Sackett St., Brooklyn 31, N. Y.
- ⓧ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.

- ⓧ Rad-El-Co Mfg. Co., 7580 Garfield Blvd., Cleveland 25, Ohio.
- ⓧ Radiart Corp., The, 3571 W. 62nd St., Cleveland 2, Ohio.
- ⓧ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓧ Special Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓧ Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.

ANTENNAS—Broadcast Station Radiators

- ⓧ Collins Radio Co., Cedar Rapids, Iowa.
- ⓧ Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- ⓧ Lehigh Structural Steel Co., 17 Battery Pl., N. Y. 4, N. Y.
- ⓧ Lingo & Son, Inc., John E., 28th St., & Buren, Camden, N. J.
- ⓧ Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
- ⓧ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓧ Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.
- ⓧ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- ⓧ Wincharger Corp., E. 7th & Division Sts., Sioux City, Iowa.
- ⓧ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.
- ⓧ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—Directional Antenna Coupling & Phasing Units

- ⓧ Air Associates, Inc., Teterboro, N. J.
- ⓧ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- ⓧ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- ⓧ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓧ Collins Radio Co., Cedar Rapids, Iowa.
- Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
- ⓧ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ⓧ Gates Radio Co., Quincy, Ill.
- ⓧ Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- ⓧ Johnson Co., E. F., Waseca, Minn.
- ⓧ Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- ⓧ Lear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
- ⓧ Network Mfg. Corp., Bayonne, N. J.
- ⓧ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓧ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓧ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓧ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ⓧ Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- ⓧ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓧ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.
- ⓧ Workshop Associates, Inc., 66 Needham Street, Newton Highlands 61, Mass.

ANTENNAS—Dummy Loads

- ⓧ Aeronautical Communications Equipment, Inc, 3090 Douglas Rd., Miami 33, Fla.
- ⓧ BIRD ELECTRONIC CORP., 1800 E. 38th St., Cleveland 14, Ohio. ADV. PG. 184, 185.
- Bunnell Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
- ⓧ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ⓧ Gates Radio Co., Quincy, Ill.
- ⓧ Gorham Co., Bronze Div., Providence 7, R. I.
- ⓧ JONES ELECTRONICS CO., M. C., Bristol, Conn. ADV. PG. 138.
- Lapp Insulator Co., Inc., 31 Gilbert St., Le Roy, N. Y.
- ⓧ Network Mfg. Corp., Bayonne, N. J.
- ⓧ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- ⓧ Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.

- ⓧ Product Development Co., Inc., Arlington, N. J.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓧ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- ⓧ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

ANTENNAS—f-m Receiver

- ⓧ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- ⓧ Amy, Aceves & King, Inc., 11 W. 42nd St., New York 18, N. Y.
- ⓧ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- ⓧ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- ⓧ Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- ⓧ Carnie & Bitter, 2332 Ontario Rd., NW, Washington 9, D. C.
- ⓧ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- ⓧ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓧ Dielectric Products Co., Inc., 125 Virginia Ave., Jersey City 5, N. J.
- ⓧ Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- ⓧ HARVEY RADIO LABS, INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- ⓧ Hi-Par Products Co., Fitchburg, Mass.
- ⓧ Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- ⓧ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- ⓧ LaPointe-Plascomold Corp., Unionville, Conn.
- ⓧ Network Mfg. Corp., Bayonne, N. J.
- ⓧ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- ⓧ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓧ Philson Mfg. Co., Inc., 60-66 Sackett St., Brooklyn 31, N. Y.
- ⓧ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- ⓧ Rad-El-Co Mfg. Co., 7580 Garfield Blvd., Cleveland 25, Ohio.
- ⓧ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓧ Schuttig & Co., Inc., 9th & Kearney Sts. NE, Washington 17, D. C.
- ⓧ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- ⓧ Telrex, Inc., Box 879, Rutherford & Neptune Highway, Asbury Park, N. J.
- ⓧ Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- ⓧ U. H. F. Resonator Co., 224 Seventh St., Racine, Wis.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓧ Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- Warren Mfg. Co., Inc., 250 East St., New Haven, Conn.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- ⓧ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.
- ⓧ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—f-m Transmitter

- ⓧ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- ⓧ Collins Radio Co., Cedar Rapids, Iowa.
- ⓧ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- ⓧ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ⓧ Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- ⓧ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓧ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓧ Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.
- ⓧ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓧ Schuttig & Co., Inc., 9th & Kearney Sts. NE, Washington 17, D. C.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓧ Ward Products Corp., Div. of The Gabriel Corp., 1523 E. 45th St., Cleveland 3, Ohio.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- ⓧ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.
- ⓧ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—Fixed Station Antenna Systems

- ⓧ Air Associates, Inc., Teterboro, N. J.
- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓧ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Dielectric Products Co., Inc., 125 Virginia Ave., Jersey City 5, N. J.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Erco Radio Labs., Inc., E. Stewart Ave., Garden City, N. Y.
- Gonset Co., 72 E. Tujunga Ave., Burbank, Calif.
- Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Press Wireless Mfg. Co., Inc., Cantiague Rd. Hicksville, L. I., N. Y.
- Product Development Co., Inc., Arlington, N. J.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- U. H. F. Resonator Co., 224 Seventh St., Racine, Wis.
- Ward Products Corp., Div. of The Gabriel Corp., 1523 E. 45th St., Cleveland 3, Ohio.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- Wind Turbine Co., Tower & Antenna Div., E. Market St., & Penna. R. R., West Chester, Pa.
- Workshop Associates, Inc., 66 Needham Street, Newton Highlands 61, Mass.

ANTENNAS—Ground Plane

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Lingo & Son, Inc., John E., 28th St. & Buren, Camden, N. J.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ward Products Corp., Div. of the Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- Wind Turbine Co., Tower & Antenna Div., E. Market St., & Penna. R. R., West Chester, Pa.
- Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—Indoor

- AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- Carnine & Bitter, 2332 Ontario Rd., N. W., Washington 9, D. C.
- Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Gadgets, Inc., 3269 N. Dixie Drive, Dayton 5, Ohio.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Haydu Brothers, Plainfield, N. J.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- National Electronic Mfg. Corp., 35-05 36th St., Long Island City, N. Y.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Philson Mfg. Co., Inc., 60-66 Sackett St., Brooklyn 31, N. Y.
- Polytron Corp., 133 Martine Ave., White Plains, N. Y.
- Precision Plastic Products Inc., 628-30 W. Lake St., Chicago 6, Ill.
- Radiart Corp., 3571 W. 61st St., Cleveland, Ohio.
- Radio Merchandise Sales, 550 Westchester Ave., New York 55, N. Y.
- TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Telrex, Inc., Box 879, Rutherford & Neptune Highway, Asbury Park, N. J.
- Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- Ward Products Corp. Div. of The Gabriel Corp., 1523 E. 45th St., Cleveland 3, Ohio.
- Warren Mfg. Co., Inc., 250 East St., New Haven, Conn.

ANTENNAS—Loop

- AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- HOULIHAN COMPANY, T. J. 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
- Kent Co., F. C., 64-72 Howard St., Irvington, N. J.
- Lear, Inc., 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Miller Co., J. W., 5917 Main St., Los Angeles, Calif.
- Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Polytron Corp., 133 Martine Ave., White Plains, N. Y.
- Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
- STANDARD COIL PRODUCTS CO., 2329 Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- SUPER ELECTRIC PRODUCTS CORP., 46 Oliver St., Newark, N. J.
- Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.
- Teleradio Engineering Corp., 99 Wall St., New York 5, N. Y.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.

ANTENNAS—Marine

- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Intervox Corp., 2701 California Ave., Seattle, Wash.
- Jefferson Inc., Ray, 40 E. Merrick Rd., Freeport, L. I., N. Y.
- Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

ANTENNAS—Microwave

- Airborne Instruments Lab. Inc., 160 Old Country Rd., Mineola, N. Y.
- Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S. Canada.
- FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Gorham Co., Bronze Div., Providence 7, R. I.
- Kennedy & Co., D. S., Cohasset, Mass.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Lear, Inc., 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- Microwave Equipment Co., Inc., North Caldwell, N. J.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Product Development Co., Inc., Arlington, N. J.
- Radio Engineering Labs, Inc., 36-40 37th St., Long Island City, N. Y.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Selectar Industries Inc., 401 E. 138th St., New York 54, N. Y.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- United Industries, Inc., Everett, Mass.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
- Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—Radar Receiving & Transmitting

- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Electronic Associates, Inc., Long Branch, N. J.
- Gorham Co., Bronze Div., Providence 7, R. I.

- I-T-E CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Kennedy & Co., D. S., Cohasset, Mass.
- Kent Co., F. C., 64-72 Howard St., Irvington, N. J.
- Microwave Equipment Co., Inc., North Caldwell, N. J.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Product Development Co., Inc., Arlington, N. J.
- Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- United Industries, Inc., Everett, Mass.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—Railroad

- AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Dielectric Products Co., Inc., 125 Virginia Ave., Jersey City 5, N. J.
- Gonset Co., 72 E. Tujunga Ave., Burbank, Calif.
- Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- Workshop Associates, Inc., 66 Needham Street, Newton Highlands 61, Mass.

ANTENNAS—Rotary Beam

- Collins Radio Co., Cedar Rapids, Iowa.
- Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- Gordon Specialties Co., 906 W. North Ave., Chicago 22, Ill.
- Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- Johnson Co., E. F., Waseca, Minn.
- Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Telrex, Inc., Box 879, Rutherford & Neptune Highway, Asbury Park, N. J.
- Workshop Associates, Inc., 66 Needham Street, Newton Highlands 61, Mass.

ANTENNAS—Telescopic

- Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- Carnine & Bitter, 2332 Ontario Rd., N. W., Washington 9, D. C.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City 1, N. Y.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Lingo & Son, Inc., John E., 28th St. & Buren, Camden, N. J.
- MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- National Electronic Mfg. Corp., 35-05 36th St., Long Island City, N. Y.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Philson Mfg. Co., Inc., 60-66 Sackett St., Brooklyn 31, N. Y.
- Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Radiart Corp., The, 3571 W. 62nd St., Cleveland 2, Ohio.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.

ANTENNAS—Television

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Amy, Aceves & King Inc., 11 W. 42nd St., New York 18, N. Y.
- Antenna Research Lab., Inc., 797 Thomas Lane, Columbus 9, Ohio.
- Birnback Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Camburn, Inc., 32-40 57th St., Woodside, N. Y.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Carnine & Bitter, 2332 Ontario Rd., NW, Washington 9, D. C.
- Ⓢ Channel Master Co., Ellenville, N. Y.
- Ⓢ Communication Measurements Lab., Inc., 120 Greenwich St., New York, N. Y.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Ⓢ Dielectric Products Co., Inc., 125 Virginia Ave., Jersey City 5, N. J.
- Ⓢ Dual-Remote Control Co., Garden City, Mich.
- Ⓢ Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- Ⓢ Essex-Riplyn Co., Hackettstown, N. J.
- Ⓢ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓢ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City 1, N. Y.
- Ⓢ Gadgets, Inc., 3269 N. Dixie Drive, Dayton 5, Ohio.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Gonset Co., 72 E. Tujunga Ave., Burbank, Calif.
- Ⓢ Haydu Brothers, Plainfield, N. J.
- Ⓢ Hi-Par Products Co., Fitchburg, Mass.
- Ⓢ Hy-Lite Antennae, Inc., 1060 Washington Ave., Bronx 56, N. Y.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓢ LaPointe-Plascomold Corp., Unionville, Conn.
- Ⓢ Lingo & Son, Inc., John E., 28th St. & Buren, Camden, N. J.
- Ⓢ Louis Bros., 3543 E. 16th St., Los Angeles 23, Calif.
- Ⓢ Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
- Ⓢ Lynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
- Ⓢ National Electronic Mfg. Corp., 35-05 36th St., Long Island City 5, N. Y.
- Ⓢ Network Mfg. Corp., Bayonne, N. J.
- Ⓢ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Ⓢ Phico Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Philson Mfg. Co., Inc., 60-66 Sackett St., Brooklyn 31, N. Y.
- Ⓢ Polytron Corp., 113 Martine Ave., White Plains, N. Y.
- Ⓢ Precision Plastic Products Inc., 628-30 W. Lake St., Chicago 6, Ill.
- Ⓢ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Ⓢ Rad-El-Co Mfg. Co., 7580 Garfield Blvd., Cleveland 25, Ohio.
- Ⓢ Radiart Corp., The, 3571 W. 62nd St., Cleveland 2, Ohio.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ Radio Merchandise Sales, 550 Westchester Ave., New York 55, N. Y.
- Ⓢ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ⓢ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- Ⓢ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Ⓢ Television Laboratories, Inc., 542 N. Parkside Ave., Chicago 44, Ill.
- Ⓢ Telrex, Inc., Box 879, Rutherford & Neptune Highway, Asbury Park, N. J.
- Ⓢ Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- Ⓢ U. H. F. Resonator Co., 224 Seventh St., Racine, Wis.
- Ⓢ Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Ⓢ Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- Ⓢ Warren Mfg. Co., Inc., 250 East St., New Haven, Conn.
- Ⓢ West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- Ⓢ Workshop Associates, Inc., 66 Needham Street, Newton Highlands 61, Mass.

ANTENNAS—Television Built-in

- Ⓢ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓢ Haydu Brothers, Plainfield, N. J.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓢ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓢ Lansky Die Cutting Co., 192½ Greene St., New York 12, N. Y.
- Ⓢ Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
- Ⓢ National Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
- Ⓢ Phico Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.

- Ⓢ Polytron Corp., 113 Martine Ave., White Plains, N. Y.
- Ⓢ Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- Ⓢ Vokar Corp., 7300 Huron River Drive, Dexter, Mich.

ANTENNAS—Television Multiple Set

- Ⓢ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Ⓢ Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- Ⓢ Haydu Brothers, Plainfield, N. J.
- Ⓢ Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓢ Lynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
- Ⓢ Polytron Corp., 133 Martine Ave., White Plains, N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Ⓢ Television Equipment Corp., 238 William St., New York, N. Y.
- Ⓢ Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Ⓢ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ANTENNAS—uhf & vhf

- Ⓢ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- Ⓢ Air Associates, Inc., Teterboro, N. J.
- Ⓢ American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓢ Amy, Aceves & King Inc., 11 W. 42nd St., New York 18, N. Y.
- Ⓢ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ Birnback Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓢ Carnine & Bitter, 2332 Ontario Rd., NW, Washington 9, D. C.
- Ⓢ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓢ Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- Ⓢ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓢ Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- Ⓢ Gonset Co., 72 E. Tujunga Ave., Burbank, Calif.
- Ⓢ Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓢ Kennedy & Co., D. S., Cohasset, Mass.
- Ⓢ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓢ Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Ⓢ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓢ Manufacturers Thread Grinding, Inc., P. O. Box 66, Eatontown, N. J.
- Ⓢ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- Ⓢ Phico Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Ⓢ Product Development Co., Inc., Arlington, N. J.
- Ⓢ Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.
- Ⓢ Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ⓢ Serdex Inc., 91 Cambridge St., Boston, Mass.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Super Electronic Products Corp., 46 Oliver St., Newark, N. J.
- Ⓢ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Ⓢ Telrex, Inc., Box 879, Rutherford & Neptune Highway, Asbury Park, N. J.
- Ⓢ U. H. F. Resonator Co., 224 Seventh St., Racine, Wis.
- Ⓢ Ward Products Corp., Div. of The Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
- Ⓢ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R.R., West Chester, Pa.
- Ⓢ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

ARRESTORS—Lighting

- Ⓢ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓢ Birnback Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓢ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Ⓢ Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- Ⓢ Cleveland Electronics, Inc., 6611 Euclid Ave., Cleveland, Ohio.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ LaPointe-Plascomold Corp., Unionville, Conn.
- Ⓢ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- Ⓢ National Electronic Mfg. Corp., 35-05 36th St., Long Island City 5, N. Y.
- Ⓢ Phico Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ Radio Merchandise Sales, 550 Westchester Ave., New York 54, N. Y.
- Ⓢ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓢ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

ATTENUATORS

- Ⓢ American British Technology Inc., 57 Park Ave., New York 16, N. Y.
- Ⓢ CENTRALLAB, DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓢ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓢ Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Ⓢ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- Ⓢ Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓢ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓢ Electronic Associates, Inc., Long Branch, N. J.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ House of Television Inc., 40 W. 4th St., New York 12, N. Y.
- Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Ⓢ Kalbfell Labs., Inc., 1076 Morena Blvd., San Diego 10, Calif.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ KEITHLEY INSTRUMENTS, 1507 Warrenville Center Rd., Cleveland 21, Ohio. ADV. PG. 236.
- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ Livingston Electronic Corp., Livingston, N. J.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓢ Microwave Equipment Co., North Caldwell, N. J.
- Ⓢ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- Ⓢ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingsdale, Pa. ADV. PG. 221.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvd., Palisades Park, N. J.

ATTENUATORS—Microwave Coaxial Fixed

- Ⓢ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ C.G.S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓢ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.

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- ⓪ Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- ⓪ Microwave Equipment Co., Inc., North Caldwell, N. J.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ⓪ Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- ⓪ Schutter, Carl W., Rockville Centre, N. Y.
- ⓪ Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓪ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- ⓪ Weinschel Engineering Co., 123 William St., New York 7, N. Y.
- ⓪ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

ATTENUATORS—Microwave Step

- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓪ C.G.S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- ⓪ Daven Co., 191 Central Ave., Newark 4, N. J.
- ⓪ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ⓪ Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ Schutter, Carl W., Rockville Centre, N. Y.
- ⓪ Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓪ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- ⓪ Varian Associates, 99 Washington St., San Carlos, Calif.
- ⓪ Weinschel Engineering Co., 123 William St., New York 7, N. Y.

AUDIOMETERS

- ⓪ Aurex Corp., 1117 N. Franklin St., Chicago, Ill.
- ⓪ Maico Co., Inc., 21 North Third St., Minneapolis 1, Minn.
- ⓪ Marconi Instruments Ltd., 23 Beaver St., New York 4, N. Y.
- ⓪ Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- ⓪ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

BAFFLES—Microphone

- ⓪ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ⓪ ELECTRO-VOICE INC., Buchanan, Mich. ADV. PG. 207.
- ⓪ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.

BAFFLES—Speaker

- ⓪ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- ⓪ Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
- ⓪ Bogen Co., Inc., David 663 Broadway, New York 12, N. Y.
- Castlewood Mfg. Co., 12th & Burnett Sts., Louisville, Ky.
- ⓪ Collins Radio Co., Cedar Rapids, Iowa.
- ⓪ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- ⓪ Illinois Wood Products Corp., 1656 N. Besly Court, Chicago 22, Ill.
- Lansy Die Cutting Co., 192½ Greene St., New York 12, N. Y.
- ⓪ Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
- ⓪ Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
- ⓪ Olek & Son, Inc., A., 4757-59 Melrose St., Philadelphia 37, Pa.
- ⓪ Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
- ⓪ Pentron Corp., The, 611 W. Division St., Chicago 10, Ill.
- ⓪ Permoflux Corp., 4900 W. Grand Ave., Chicago 39, Ill.
- ⓪ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ⓪ RADIO CORP. OF AMERICA, RCA Victor Div., general offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Radio Music Corp., Port Chester, N. Y.
- ⓪ Simpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
- Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- ⓪ Topping Mfg. Co., 3597 Mission St., San Francisco 10, Calif.
- ⓪ UNIVERSITY LOUDSPEAKERS, INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.
- ⓪ Vibraloc Corporation, 425 Bush St., San Francisco 8, Calif.
- Willard's, Hampden, Mass.

BARRETTERS

- ⓪ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- ⓪ North American Philips Co., 100 E. 42nd St., New York 17, N. Y.
- ⓪ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ⓪ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

BASES—Relay

- ⓪ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass.
- ⓪ GENERAL ELECTRIC CO., Apparatus Dept. Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓪ HERMETIC SEAL PRODUCTS CO., 29-37 South 6th St., Newark 7, N. J. ADV. PG. 87.
- ⓪ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓪ Kuhn & Jacob Molding & Tool Co., 1200 Southard St., Trenton, N. J.

BATTERIES—Dry

- Acme Battery Co., 59 Pearl St., Brooklyn 1, N. Y.
- ⓪ Bond Electric Corp., Div. of Olin Industries, Inc., New Haven 4, Conn.
- ⓪ Bright Star Battery Co., 200 Crooks Ave., Clifton, N. J.
- ⓪ BURGESS BATTERY CO., Battery Div., Freeport, Ill. ADV. PG. 26.
- ⓪ General Dry Batteries, Inc., 13000 Athens Ave., Cleveland, Ohio.
- ⓪ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- ⓪ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ⓪ Manufacturers Battery Co., Sub. of Ray-O-Vac Co., Madison, Wis.
- ⓪ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- ⓪ Olin Industries, Inc., Electrical Div., New Haven 4, Conn.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓪ Ray-O-Vac Co., Madison, Wisconsin.
- ⓪ SPECIALTY BATTERY CO., Madison 4, Wisconsin. ADV. PG. 50.
- ⓪ Winchester Repeating Arms Co., Div. of Olin Industries, Inc., New Haven, Conn.
- ⓪ Willard Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.

BATTERIES—Standard Cell

- Acme Battery Co., 59 Pearl St., Brooklyn 1, N. Y.
- ⓪ Bond Electric Corp., Div. of Olin Industries, Inc., New Haven, Conn.
- ⓪ Bright Star Battery Co., 200 Crooks Ave., Clifton, N. J.
- ⓪ BURGESS BATTERY CO., Battery Div., Freeport, Ill. ADV. PG. 26.
- ⓪ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- ⓪ Marathon Battery Co., Wausau, Wis.
- ⓪ Vitamite Co., 227 W. 64th St., New York 23, N. Y.
- ⓪ Winchester Repeating Arms Co., Div. of Olin Industries, Inc., New Haven, Conn.

BATTERIES—Storage

- ⓪ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- ⓪ Bowers Battery & Spark Plug Co., Reading, Pa.
- ⓪ Edison Storage Battery Div., of Thomas A. Edison Inc., Main St. at Lakeside Ave., W. Orange, N. J.
- ⓪ Electric Auto-Lite Co., The, Toledo 1, Ohio.
- ⓪ Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa.
- ⓪ Gould Storage Battery Corp., 35 Neoga St., DePew, N. Y.
- ⓪ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- ⓪ Maurer, Inc., J. A., 37-01 31st St., Long Island City, N. Y.
- ⓪ Nickel Cadmium Battery Corp., Easthampton, Mass.
- ⓪ Vitamite Co., The, 227 W. 64th St., New York 23, N. Y.
- ⓪ Willard Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.

BATTERIES—Storage Nonspill

- ⓪ Bowers Battery & Spark Plug Co., Reading, Pa.
- ⓪ Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa.
- ⓪ Electronic Batteries Inc., Bush Terminal Bldg., No. 4, 28-34 Thirty Fifth St., Brooklyn 32, N. Y.
- ⓪ Nickel Cadmium Battery Corp., Easthampton, Mass.
- ⓪ Sonotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y.
- ⓪ Vitamite Co., The, 227 W. 64th St., New York 23, N. Y.

BATTERY CHARGERS

- ⓪ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- ⓪ AMERICAN TELEVISION & RADIO CO., 300 E. 4th St., St. Paul 1, Minn. ADV. PG. 275.
- ⓪ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- ⓪ Baldor Electric Co., 4353 Duncan Avenue, St. Louis, Mo.
- ⓪ Bowers Battery & Spark Plug Co., Reading, Pa.
- ⓪ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- ⓪ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- ⓪ Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich.
- ⓪ Electric Heat Control Co., 9123 Inman Ave., Cleveland 5, Ohio.
- ⓪ Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio.
- ⓪ Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa.
- Electricoil Transformer Co., Westery Rd., Ossining, N. Y.
- ⓪ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif.
- Electron Equipment Corp., 917 Meridian Ave., South Pasadena, Calif.
- Electronic Products Div., Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y.
- ⓪ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- ⓪ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ⓪ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Hertner Electric Co., 12690 Elmwood Ave., Cleveland 11, Ohio.
- ⓪ Kato Engineering Co., 1415 First Ave., Mankato, Minn.
- ⓪ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- ⓪ Lorain Products Corp., 112 F St., Lorain, Ohio.
- ⓪ McCoolpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif.
- ⓪ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- ⓪ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ⓪ Mellaphone Corp., Rochester 2, N. Y.
- ⓪ MODEL RECTIFIER CORP., 1510 Nostrand Ave., Brooklyn 26, N. Y. ADV. PG. 273.
- ⓪ North Electric Mfg. Co., 501 S. Market St., Gallon, Ohio.
- Northeastern Engineering, Inc., Manchester, N. H.
- ⓪ OPAD-GREEN CO., 71 Warren St., New York 7, N. Y. ADV. PG. 274.
- ⓪ Power Equipment Co., 55 Antoinette St., Detroit 2, Mich.
- ⓪ Radiart Corp., 3571 W. 62nd St., Cleveland, Ohio.
- ⓪ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- ⓪ Rectifier Engineering Co., 1803 E. Seventh St., Los Angeles 21, Calif.
- Richardson Allen Corp., 15 W. 20th Street, New York 11, N. Y.
- ⓪ Schauer Mfg. Corp., 2119 Reading Rd., Cincinnati 2, Ohio.
- ⓪ Sonotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y.
- ⓪ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓪ Ther Electric & Machine Works, 15 S. Jefferson St., Chicago, Ill.
- ⓪ Vitamite Co., The, 227 W. 64th St., New York 23, N. Y.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓪ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓪ Willard Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.

BATTERY CHARGERS—Gas Engine Driven

- ⓪ Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio.
- ⓪ Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
- ⓪ Onan & Sons Inc., D. W., 3264 Royalston Ave., Minneapolis 5, Minn.
- ⓪ Vitamite Co., 227 W. 64th St., New York 23, N. Y.

BEARINGS—Jewel

- ⓪ Steel Co., Herman D., Lafayette Bldg., Philadelphia 6, Pa.
- ⓪ Swiss Jewel Co., Lafayette Bldg., Philadelphia 6, Pa.
- ⓪ Vallorbs Jewel Co., Lancaster, Pa.

BEARINGS—Miniature

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓪ Amplex Division, Chrysler Corp., Detroit 31, Mich.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Fafnir Bearing Co., Booth Street, New Britain, Conn.
- Ⓢ Gatti Inc., Aurele M., 524 E. Washington St., Trenton, N. J.
- Ⓢ Landis & Gyr, Inc., 104 Fifth Ave., New York 11, N. Y.
- Ⓢ MINIATURE PRECISION BEARINGS, INC., Keene, N. H. ADV. PG. 189.
- Ⓢ NEW HAMPSHIRE BALL BEARINGS, 5 Main St., Petersborough, N. H. ADV. PG. 209.
- Ⓢ U. S. Graphite Co., Saginaw, Mich.

BELLOWS

- Ⓢ Chicago Metal Hose Corp., 1309 S. Third Ave., Maywood, Ill.
- Ⓢ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓢ Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Ⓢ Fulton Siphon Div., Robertshaw-Fulton Controls Co., Knoxville 4, Tenn.

BELTS—Dial Drive

- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Ton-Tex Corp., 247 Pearl St., N. W., Grand Rapids 2, Mich.
- Ⓢ White Dental Mfg. Co., S. S., Industrial Div., 10 E. 40th St., New York, N. Y.

BENCH TEST SET-UPS

- Ⓢ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Eastern Soecialty Co., Philadelphia 40, Pa.
- Ⓢ Electronic Brazing Co., 140 Glenridge Ave., Montclair, N. J.
- Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Servomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.

BLOCKS—Fuse Blocks & Holders

- Ⓢ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓢ BUSSMANN MFG. CO., St. Louis 7, Mo. ADV. PG. 82.
- Ⓢ CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓢ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓢ Dante Electric Mfg. Co., Bantam, Conn.
- Ⓢ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- Ⓢ JONES DIV., HOWARD B., Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Ⓢ Koltan Electric Mfg. Co., 123 N. J. Railroad Ave., Newark 5, N. J.
- Ⓢ LITTELFUSE, INC., 4757 Ravenswood Ave., Chicago 40, Ill. ADV. PG. 164.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓢ Penn-Union Electric Corp., 315 State St., Erie, Pa.
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Wade Electric Products Co., 211 Jacob St., Sturgis, Mich.

BLOWERS—Small

- Ⓢ Dynamic Air Engineering, Inc., 1619 So. Alameda St., Los Angeles 11, Calif.
- Ⓢ EASTERN AIR DEVICES, INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- Ⓢ Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
- Ⓢ Fasco Industries, Inc., Rochester 2, N. Y.
- Ⓢ Globe Industries, 125 Sunrise Place, Dayton, Ohio.
- Ⓢ Ideal Industries, Inc., Park & Borden Aves., Sycamore, Ill.
- Ⓢ Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago 41, Ill.
- Ⓢ Leiman Brothers, 114 Christie St., Newark 5, N. J.
- Ⓢ Redmond Co., Inc., Owosso, Mich.
- Ⓢ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ Rotron Mfg. Co., Inc., 7-9 Schoonmaker Lane, Woodstock, N. Y.
- Ⓢ Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- Ⓢ Universal Electric Co., 300 E. Main St., Owosso, Mich.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. 868, Pittsburgh 30, Pa. ADV. PG. 77.

BOARDS—Capacitor or Resistor

- Ⓢ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓢ AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- Ⓢ CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓢ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓢ JONES DIV., HOWARD B., Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Ⓢ Keystone Electronic Co., 50-52 Franklin St., New York 13, N. Y.
- Ⓢ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓢ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓢ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ U. S. Engineering Co., 521 Commercial St., Glendale 3, Calif.

BOBBINS—Coil Winding

- Ⓢ A.P.W. Co., 72 W. Main St., Rockaway, N. J.
- Ⓢ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓢ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Ⓢ AMERICAN MOLDED PRODUCTS CO., 1644 N. Honore St., Chicago 22, Ill. ADV. PG. 263.
- Ⓢ Beach Precision Parts Co., Boonton, N. J.
- Ⓢ CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- Ⓢ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓢ Electron Mfg. Co., 4596 Elston Ave., Chicago, Ill.
- Ⓢ Emeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓢ Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- Ⓢ Kircherberger & Co., Inc., M., 1425 Thirty-Seventh Street, Brooklyn 18, N. Y.
- Ⓢ Kuhn & Jacob Molding & Tool Co., 1200 Southland St., Trenton, N. J.
- Ⓢ Mayfair Molded Products Corp., 4440 N. Elston Ave., Chicago 30, Ill.
- Ⓢ PRECISION PAPER TUBE CO., 2033 W. Charleston St., Chicago 47, Ill. ADV. PG. 215.
- Ⓢ Roljan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓢ Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S. Pasadena, Calif.
- Ⓢ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

BOLOMETERS

- Ⓢ Baird Associates, Inc., 33 University Rd., Cambridge 38, Mass.
- Ⓢ Fredericks Co., Geo. E. Bethayres, Pa.
- Ⓢ General R-F Fittings Co., 126 Dartmouth St., Boston 16, Mass.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓢ SERV O CORP. OF AMERICA, 2020 Jericho Turnpike, New Hyde Park, N. Y. ADV. PG. 269.
- Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

BOLTS

- Ⓢ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Ⓢ American Screw Co., Willimantic, Conn.
- Ⓢ Autoscrew Co., 216-222 W. 18th St., New York, N. Y.
- Ⓢ Central Screw Co., 3501 Shields Ave., Chicago 9, Ill.
- Ⓢ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓢ Continental Screw Co., New Bedford, Mass.
- Ⓢ FEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓢ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.

- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ National Screw & Mfg. Co., The, Cleveland 4, Ohio.
- Ⓢ Pheoil Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
- Ⓢ Progressive Mfg. Co., 50 Norwood St., Torrington, Conn.
- Ⓢ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓢ Ryerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.
- Ⓢ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓢ South River Metal Products Co., South River, N. J.
- Ⓢ Stronghold Screw Products, Inc., 216-222 West Hubbard St., Chicago 10, Ill.
- Ⓢ Vallorbs Jewel Co., Lancaster, Pa.

BOLTS—Expansion

- Ⓢ Ackerman-Johnson Co., 625 W. Jackson Blvd., Chicago 6, Ill.
- Ⓢ Arro Expansion Bolt Co., Boone Ave., Marion, Ohio.
- Ⓢ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓢ Chicago Expansion Bolt Co., 1338 W. Concord Pl., Chicago 22, Ill.
- Ⓢ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓢ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Ⓢ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ National Lead Co., 111 Broadway, New York 6, N. Y.
- Ⓢ National Screw & Mfg. Co., The, Cleveland 4, Ohio.
- Ⓢ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓢ Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
- Ⓢ United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.

BOLTS—Eye

- Ⓢ Ackerman-Johnson Co., 625 W. Jackson Blvd., Chicago 6, Ill.
- Ⓢ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Ⓢ Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Ⓢ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
- Ⓢ Laughlin Co., Thomas, 199 Fore, Portland, Me.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ National Screw & Mfg. Co., The, Cleveland 4, Ohio.
- Ⓢ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓢ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓢ Stronghold Screw Products, Inc., 216-222 West Hubbard St., Chicago 10, Ill.
- Ⓢ United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.

BOLTS—Toggle

- Ⓢ Ackerman-Johnson Co., 625 W. Jackson Blvd., Chicago 6, Ill.
- Ⓢ Arro Expansion Bolt Co., Boone Ave., Marion, Ohio.
- Ⓢ Chicago Expansion Bolt Co., 1338 W. Concord Pl., Chicago 22, Ill.
- Ⓢ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ National Screw & Mfg. Co., Cleveland 4, Ohio.
- Ⓢ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓢ Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.

BOOKS

See Technical Books—Publishers

BOOMS—Microphone

- Ⓢ Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
- Ⓢ AVIOMETER DIV. of Roanwell Corp., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓞ Berndt-Bach, Inc., 7377 Beverly Blvd., Los Angeles 36, Calif.
- Ⓞ Olesen Co., Otto K., 1534 Cahuenga, Hollywood 28, Calif.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ Special Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.

BOOSTERS—Television

- Ⓞ Anchor Radio Corp., 2215 South St., Chicago 23, Ill.
- Ⓞ Astatic Corp., The, Conneaut, Ohio.
- Ⓞ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓞ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 198.
- Ⓞ I.D.E.A., 55 North New Jersey, Indianapolis, Ind.
- Ⓞ R.M.S. Electronics, Inc., 622 E. 6th St., New York, N. Y.
- Ⓞ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Ⓞ Transvision Inc., 460 North Ave., New Rochelle, N. Y.
- Ⓞ TURNER CO., THE, 909 17th St., N. E., Cedar Rapids, Iowa. ADV. PG. 54.

BOXES—Metal

- Ⓞ ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsy Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Ⓞ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓞ Colgate Mfg. Corp., Lindenhurst, L. I., N. Y.
- Ⓞ Columbia Metal Box Co., 260 E. 143rd St., New York, N. Y.
- Ⓞ Craft Mfg. Co., 3949 W. Schubert St., Chicago, Ill.
- Ⓞ Cutler Metal Products Co., Camden, N. J.
- Ⓞ Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Ⓞ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓞ Gates Radio Co., Quincy, Ill.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓞ Hallitt Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓞ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓞ KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- Ⓞ Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Ⓞ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓞ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓞ Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.
- Ⓞ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓞ OLYMPIC METAL PRODUCTS CO., INC., Phillipsburg, N. J. ADV. PG. 148.
- Ⓞ Pierce Template Corp., 2646 N. Coral St., Philadelphia 25, Pa.
- Ⓞ REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- Ⓞ Sperman Metal Specialties, 27 Columbia Ave., Brooklyn 2, N. Y.
- Ⓞ Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.
- Ⓞ Worcester Pressed Aluminum Corp., 13-15 Hope Ave., Worcester, Mass.

BOXES—Waterproof

- Ⓞ ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsy Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Ⓞ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Ⓞ Colgate Mfg. Corp., Lindenhurst, L. I., N. Y.
- Ⓞ Cutler Metal Products Co., Camden, N. J.
- Ⓞ Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Ⓞ Gates Radio Co., Quincy, Ill.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ Hallitt Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓞ Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Ⓞ KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- Ⓞ Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Ⓞ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓞ Market Forge Co., Everett 49, Mass.
- Ⓞ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓞ Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Ⓞ Printloid Inc., 95 Mercer St., New York, N. Y.
- Ⓞ REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- Ⓞ Skydye Inc., River Rd., Port Jervis, N. Y.
- Ⓞ Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

BRACKETS

- Ⓞ Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- Ⓞ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓞ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Ⓞ CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓞ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Ⓞ Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓞ Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
- Ⓞ Colgate Mfg. Corp., Lindenhurst, L. I., N. Y.
- Ⓞ Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Ⓞ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓞ Eastern Specialty Corp., Philadelphia 40, Pa.
- Ⓞ FALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
- Ⓞ FEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓞ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ Hallitt Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓞ Industrial Precision Products Co., 215-235 N. Hoyle Ave., Chicago 12, Ill.
- Ⓞ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓞ Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Ⓞ Kling Metal Spinning Co., 174 Centre St., New York 13, N. Y.
- Ⓞ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓞ Locke Incorporated P. O. Box 57, Baltimore 3, Md.
- Ⓞ Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.
- Ⓞ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓞ Network Mfg. Corp., Bayonne, N. J.
- Ⓞ OLYMPIC METAL PRODUCTS CO., INC., Phillipsburg, N. J. ADV. PG. 148.
- Ⓞ Pierce Template Corp., 2646 N. Coral St., Philadelphia 25, Pa.
- Ⓞ Plastimold Corp., Attleboro, Mass.
- Ⓞ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Ⓞ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓞ South River Metal Products Co., South River, N. J.
- Ⓞ Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.
- Ⓞ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.

BRACKETS—f-m & Television Antenna

- Ⓞ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓞ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓞ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Ⓞ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓞ Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- Ⓞ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Ⓞ Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
- Ⓞ Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Ⓞ Haydu Brothers, Plainfield, N. J.
- Ⓞ Hy-Lite Antennae Inc., 1060 Washington Blvd., Bronx 56, N. Y.
- Ⓞ Industrial Precision Products Co., 315-325 N. Hoyle Ave., Chicago 12, Ill.
- Ⓞ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓞ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓞ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓞ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y.
- Ⓞ National Electronic Mfg. Corp., 35-05 36th St., Long Island City, N. Y.
- Ⓞ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Ⓞ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓞ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Ⓞ Product Development Co., Inc., Arlington, N. J.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Ⓞ Telrex, Inc., Box 879, Rutherford & Neptune Highway, Ashbury Park, N. J.
- Ⓞ Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Ⓞ Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.
- Ⓞ Ward Products Corp., Div. of the Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.

- Ⓞ Warren Mfg. Co., Inc., 250 East St., New Haven, Conn.
- Ⓞ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.

BREAKERS—Circuit

- Ⓞ Electric Auto-Lite Co., The, Toledo 1, Ohio.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ HEINEMANN ELECTRIC CO., 97 Plum St., Trenton 2, N. J. ADV. PG. 224.
- Ⓞ I-T-E CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.
- Ⓞ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓞ LITTELFUSE, INC., 4757 Ravenswood Ave., Chicago 40, Ill. ADV. PG. 164.
- Ⓞ Roller-Smith, Bethlehem, Pa.
- Ⓞ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
- Ⓞ Spencer Thermostat Co., 34 Forest St., Attleboro, Mass.
- Ⓞ Trumbull Electric Mfg. Co., Plainville, Conn.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

BRIDGES—Capacitance

- Ⓞ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass.
- Ⓞ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Oregon. ADV. PG. 276.
- Ⓞ Clough Bregle Co., 6014 N. Broadway, Chicago, Ill.
- Ⓞ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓞ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Ⓞ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Ⓞ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓞ Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- Ⓞ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓞ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓞ Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Ⓞ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- Ⓞ Simpson Electric Co., Div. American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓞ Southwestern Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓞ Sprague Electric Co., North Adams, Mass.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS INC., Emporium, Pa., N. Y. ADV. PG. 286 to 290.
- Ⓞ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓞ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

BRIDGES—Electrical

- Ⓞ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓞ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓞ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Oregon. ADV. PG. 276.
- Ⓞ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓞ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓞ Electronic Brazing Co., 140 Glenridge Ave., Montclair, N. J.
- Ⓞ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ Industrial Instruments, Inc., 17 Pollack Ave., Jersey City 5, N. J.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓞ Marconi Instruments Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓞ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓞ Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Ⓞ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Radio City Prods. Co., Inc., 152 W. 25th St., New York 1, N. Y.
- Ⓢ Reimer Electronics Co., 152 W. 25th Street, New York, N. Y.
- Ⓢ Rubicon Co., 3751 Ridge Ave., Phila., Pa.
- Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓢ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

BRIDGES—Temperature

- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.

BRIDGES—Thermistor

- Ⓢ BRADLEY LABS., INC., 82 Meadow St., New Haven 10, Conn. ADV. PG. 152.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ JONES ELECTRONICS CO., M. C., Bristol, Conn. ADV. PG. 138.
- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓢ Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

BROADCAST INPUT CONTROL EQUIPMENT

- Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓢ American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓢ Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓢ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓢ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓢ Fairchild Recording Equipment Corp., 154th St., & 7th Avenue, Whitestone, N. Y.
- Ⓢ Gates Radio Co., Quincy, Ill.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ Radio-Music Corp., Port Chester, N. Y.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldych, London, W. C. 2, England.
- Ⓢ SUPERIOR ELECTRIC CO., THE, 83 Meadow St., Bristol, Conn. ADV. PG. 110, 111.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓢ Thordarson Electric Mfg. Div., Maguire Industries Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓢ Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

BRUSHES—Carbon & Graphite

- Ⓢ Electro-Nite Carbon Co., 1133 E. Columbia Ave., Philadelphia 25, Pa.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓢ Helwig Co., 2544 N. 30th St., Milwaukee 10, Wis.
- Ⓢ KEYSTONE CARBON CO., INC., Saint Marys, Pa. ADV. PG. 42.
- Ⓢ Pure Carbon Co., St. Marys, Pa.
- Ⓢ St. Marys Carbon Co., State Road, St. Marys, Pa.
- Ⓢ Seager Carbon Co., 289 Church St., New York 13, N. Y.
- Ⓢ Speer Carbon Co., Lincoln Ave., St. Marys, Pa.
- Ⓢ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓢ U. S. Graphite Co., Saginaw, Mich.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

BRUSHES—Metal-Graphite

- Ⓢ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓢ Helwig Co., 2544 N. 30th St., Milwaukee, Wis.

- Ⓢ International Powder Metallurgy Co., 439 Main St., Ridgway, Pa.
- Ⓢ KEYSTONE CARBON CO., INC., Saint Marys, Pa. ADV. PG. 42.
- Ⓢ Pure Carbon Co., St. Marys, Pa.
- Ⓢ St. Marys Carbon Co., State Road, St. Marys, Pa.
- Ⓢ Seager Carbon Co., 289 Church St., New York 13, N. Y.
- Ⓢ Speer Carbon Co., Lincoln Ave., St. Marys, Pa.
- Ⓢ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓢ U. S. Graphite Co., Saginaw, Mich.

BUS BAR SYSTEMS

- Ⓢ Federal Electric Products Co., 50 Paris St., Newark, N. J.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓢ Trumbull Electric Mfg. Co., Plainville, Conn.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

BUS BARS—Solderless

- Ⓢ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. Y.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

BUSHINGS—Hermetically Sealed

- Ⓢ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Ⓢ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓢ ELECTRICAL INDUSTRIES, INC., 44 Summer Ave., Newark 4, N. J. ADV. PG. 217.
- Ⓢ ELECTRO-SEAL CORP., 946 Lee St., DesPlaines, Ill. ADV. PG. 90.
- Ⓢ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- Ⓢ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- Ⓢ HERMASEAL CO., INC., Riverside Drive, Elkhart, Ind. ADV. PG. 264.
- Ⓢ HERMETIC SEAL PRODUCTS CO., 29-37 So. 6th St., Newark 7, N. J. ADV. PG. 87.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

BUSHINGS—Nonmetallic

- Ⓢ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Ⓢ ATLANTIC INDIA RUBBER WORKS, INC., 571 W. Polk St., Chicago 7, Ill. ADV. PG. 271.
- Ⓢ Beach Precision Parts Co., Boonton, N. J.
- Ⓢ BIWAX CORP., 3445 Howard St., Skokie, Ill. ADV. PG. 242.
- Ⓢ Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- Ⓢ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Ⓢ Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Delaware.
- Ⓢ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓢ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- Ⓢ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓢ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- Ⓢ HEYMAN MFG. CO., 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ Kirchnerberger & Co., Inc., 1425 37th St., Brooklyn 18, N. Y.
- Ⓢ Laconia Corp., 37 S. 6th St., Newark 7, N. J.
- Ⓢ Lamicoid Fabrications, Inc., 4545 W. Cortland St., Chicago 39, Ill.
- Ⓢ Louthan Mfg. Co., East Liverpool, Ohio.
- Ⓢ MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- Ⓢ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- Ⓢ NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
- Ⓢ Printloid Inc., 95 Mercer St., New York, N. Y.
- Ⓢ Pure Carbon Co., St. Marys, Pa.
- Ⓢ RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Ⓢ Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.

- Ⓢ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- Ⓢ Waterbury Companies, Inc., Waterbury 90, Conn.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CABINETS

See Also Housings

CABINETS—Metal

- Ⓢ Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓢ ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Ⓢ BUCK ENGINEERING CO., 37-41 Marcy St., Freehold, N. J. ADV. PG. 194.
- Ⓢ Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓢ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓢ Columbia Metal Box Co., 260 E. 143rd St., New York, N. Y.
- Ⓢ Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- Ⓢ Cutler Metal Products Co., Camden, N. J.
- Ⓢ Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 41, Ill.
- Ⓢ FALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
- Ⓢ Gates Radio Co., Quincy, Ill.
- Ⓢ Grammes & Sons, Inc., L. F., 389 Union St., Allentown 2, Pa.
- Ⓢ Gray Mfg. Co., The, 16 Arbor St., Hartford, Conn.
- Ⓢ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓢ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓢ Johnson Co., E. F., Waseca, Minn.
- Ⓢ KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- Ⓢ Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Ⓢ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓢ LaRose & Associates, W. T., 646 Second Ave., Troy, N. Y.
- Ⓢ Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
- Ⓢ McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓢ Market Forge Co., Everett 49, Mass.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓢ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓢ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓢ Northeastern Engineering, Inc., Manchester, N. H.
- Ⓢ OLYMPIC METAL PRODUCTS CO., INC., Phillipsburg, N. J. ADV. PG. 148.
- Ⓢ PAR-METAL PRODUCTS CORP., 32-62 49th St., Long Island City 3, N. Y. ADV. PG. 242.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Pierce Template Corp., 2646 N. Coral St., Philadelphia 25, Pa.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- Ⓢ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓢ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

CABINETS—Plastic

- Ⓢ Arc Radio Corp., 523 Myrtle Ave., Brooklyn, N. Y.
- Ⓢ Boonton Molding Co., Boonton, N. J.
- Ⓢ Calbest Engineering & Electronics Co., 828 N. Highland Ave., Hollywood 38, Calif.
- Ⓢ Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- Ⓢ Chicago Die Mold Mfg. Co., 4001 Wrightwood Ave., Chicago 39, Ill.
- Ⓢ Consolidated Molded Products Corp., Scranton 2, Pa.
- Ⓢ Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- Ⓢ Kuhn & Jacob Molding & Tool Co., 1200 Southard St., Trenton, N. J.
- Ⓢ Mack Molding Co., Wayne, N. J.
- Ⓢ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Ⓢ Plastimold Corp., Attleboro, Mass.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Printloid, Inc., 95 Mercer St., New York, N. Y.
- Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Syracuse Ornamental Co., Inc., 581 S. Clinton St., Syracuse, N. Y.
- Waterbury Companies, Inc., Waterbury 90, Conn.

CABINETS—Wood

- Admiral Corp., 3800 Cortland St., Chicago, Ill.
- Air-King Products Co., Inc., 170 53rd St., Brooklyn, N. Y.
- Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- Arc Radio Corp., 523 Myrtle Ave., Brooklyn, N. Y.
- Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- Castlewood Mfg. Co., 12th & Burnett Sts., Louisville, Ky.
- Elm Laboratories, 18 S. Broadway, Dobbs Ferry N. Y.
- Gates Radio Co., Quincy, Ill.
- Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- Illinois Wood Products Corp., 1656 No. Besly Court, Chicago 22, Ill.
- Jackson Industries, Inc., 58 E. Cullerton St., Chicago 16, Ill.
- Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Reisner Mfg. Co., Hagerstown, Md.
- Sessions Clock Co., Forestville, Conn.
- Steger Furniture Mfg. Co., Steger, Ill.
- Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- Tech-Master Products Co., 443-5 Broadway, New York 13, N. Y.
- Topping Mfg. Co., 60 Benton Ave., San Francisco 10, Calif.
- Transvision Inc., 460 North Ave., New Rochelle, N. Y.
- United Wood Specialty Mfg. Co., Inc., 951 Broadway, Fall River, Mass.
- Vibracloc Corporation, 425 Bush St., San Francisco 8, Calif.
- Wilcox-Gay Corp., Charlotte, Michigan.

CABLE ASSEMBLIES

- AEROLITE ELECTRONIC HARDWARE CO., 507 26th St., Union City, N. J. ADV. PG. 138.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
- Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Eastern Specialty Co., Philadelphia 40, Pa.
- ELECTRO-WIRE SERVICE, 5 Beekman St., New York 7, N. Y. ADV. PG. 269.
- Englewood Electrical Supply Co., 5801 S. Halsted St., Chicago, Ill.
- Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Etraco Mfg. Co., Inc., Woods Church Rd., Flemington, N. J.
- Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City 1, N. Y.
- GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- General R-F Fittings Co., 126 Dartmouth St., Boston 16, Mass.
- Halfett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Industrial Electronics Co., Hanover, Mass.
- LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Product Development Co., Inc., Arlington, N. J.
- Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
- Reisner Mfg. Co., Hagerstown, Md.
- Sherron Electronics Corp., 1201 Flushing Ave., Brooklyn 16, N. Y.
- Star Measurements Co., 442 E. 166th St., New York 56, N. Y.

- Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
- Whitaker Cable Corp., Kansas City 16, Mo.
- Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

CABLE HOOKS

- CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Industrial Precision Products Co., 315-325 N. Hoyne Ave., Chicago 12, Ill.
- Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Laughlin Co., Thomas, 199 Fore, Portland, Me.
- Locke Incorporated, P. O. Box 57, Baltimore 3, Md.

CABLE—Coaxial Flexible

- AIRTON INC., 101 E. Elizabeth Ave., Linden, N. J. ADV. PG. 46.
- Alpha Wire Corp., 50 Howard St., New York, N. Y.
- AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- American Steel & Wire Co., U. S. Steel Corp., Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
- Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Ansonia Electrical Co., 63 Main St., Ansonia, Conn.
- Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Chester Cable Corp., Chester, N. Y.
- Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Gates Radio Co., Quincy, Ill.
- General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
- GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- J F D MFG CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Johnson Co., E. F., Waseca, Minn.
- LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
- Okonite Co., Canal St., Passaic, N. J.
- PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Phelps Dodge Copper Products Corp., 40 Wall Street, New York 5, N. Y.
- Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Product Development Co., Inc., Arlington, N. J.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
- Transradio Ltd., 138A Cromwell Rd., London SW 7, England.
- Uniform Tubes, Shurs Lane & Laruiston St., Roxborough, Philadelphia, Pa.
- Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
- Whitney Blake Co., New Haven, Conn.

CABLE—Coaxial Rigid

- Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
- Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Communication Products Co., Inc., Broadway & Clark Street, Keyport, N. J.

- Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Johnson Co., E. F., Waseca, Minn.
- Product Development Co., Inc., Arlington, N. J.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Uniform Tubes, Shurs Lane & Laruiston St., Roxborough, Philadelphia, Pa.
- Varian Associates, 99 Washington St., San Carlos, Calif.
- Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

CABLE—Insulated

- ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio.
- Alpha Wire Corp., 50 Howard St., New York, N. Y.
- American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ansonia Electrical Co., 63 Main St., Ansonia, Conn.
- Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Chester Cable Corp., Chester, N. Y.
- Collyer Insulated Wire Co., 249 Roosevelt Ave., Pawtucket, R. I.
- Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Electric Auto-Lite Co., Toledo 1, Ohio.
- Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
- Goldmark Wire Co., James, The, 75 Murray St., New York 7, N. Y.
- Hazard Insulated Wire Works, Div., The, Okonite Co., Wilkes-Barre, Pa.
- J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
- New England Electrical Works, Lisbon, N. H.
- Okonite Co., Canal St., Passaic, N. J.
- PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Plastic Wire & Cable Corp., Jewett City, Conn.
- Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Product Development Co., Inc., Arlington, N. J.
- Roebbling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- ROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
- U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
- Western Insulated Wire Co., 2421 E. 30th St., Los Angeles, Calif.
- Whitney Blake Co., New Haven, Conn.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

CABLE—Microphone

- Ⓜ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓜ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓜ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓜ American Steel & Wire Co., U. S. Steel Corp., Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓜ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓜ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Ⓜ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓜ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓜ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓜ Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Ⓜ Chester Cable Corp., Chester, N. Y.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓜ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓜ CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓜ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓜ General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Goldmark Wire Co., James, The, 75 Murray St., New York 7, N. Y.
- Ⓜ Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓜ Hazard Insulated Wire Works, Div., The, Okonite Co., Wilkes-Barre, Pa.
- Ⓜ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓜ LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
- Ⓜ Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Ⓜ Okonite Co., Canal St., Passaic, N. J.
- Ⓜ PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓜ Plastic Wire & Cable Corp., Jewett City, Conn.
- Ⓜ Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., general offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ Roebling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓜ ROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓜ Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Ⓜ Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
- Ⓜ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
- Ⓜ Western Insulated Wire Co., 2421 E. 30th St., Los Angeles, Calif.
- Ⓜ Whitney Blake Co., New Haven, Conn.

CABLE—Shielded

- Ⓜ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓜ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓜ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓜ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓜ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓜ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓜ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓜ Ansonia Electrical Co., 63 Main St., Ansonia, Conn.
- Ⓜ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Ⓜ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓜ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓜ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓜ Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Ⓜ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓜ Chester Cable Corp., Chester, N. Y.
- Ⓜ Collyer Insulated Wire Co., 249 Roosevelt Ave., Pawtucket, R. I.
- Ⓜ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.

- Ⓜ Consolidated Wire & Associated Companies 1635 S. Clinton St., Chicago 16, Ill.
- Ⓜ CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓜ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓜ General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Goldmark Wire Co., James, The, 75 Murray St., New York 7, N. Y.
- Ⓜ Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓜ Hazard Insulated Wire Works, Div., The, Okonite Co., Wilkes-Barre, Pa.
- Ⓜ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓜ LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
- Ⓜ Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Ⓜ Okonite Co., Canal St., Passaic, N. J.
- Ⓜ PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Ⓜ Phelps Dodge Copper Products Corp., 40 Wall Street, New York 5, N. Y.
- Ⓜ Plastic Wire & Cable Corp., Jewett City, Conn.
- Ⓜ Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Ⓜ Roebling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓜ ROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓜ Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Ⓜ Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
- Ⓜ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
- Ⓜ Uniform Tubes, Shurs Lane & Laruiston St., Roxborough, Philadelphia, Pa.
- Ⓜ Western Insulated Wire Co., 2421 E. 30th St., Los Angeles, Calif.
- Ⓜ Whitney Blake Co., New Haven, Conn.

CABLE—Transmission Line

- Ⓜ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓜ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓜ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓜ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓜ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓜ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Ⓜ Ansonia Electrical Co., 63 Main St., Ansonia, Conn.
- Ⓜ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Ⓜ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓜ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓜ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓜ Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Ⓜ Chester Cable Corp., Chester, N. Y.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓜ Consolidated Wire & Associated Companies 1635 S. Clinton St., Chicago 16, Ill.
- Ⓜ Copperweld Steel Co., Glassport, Pa.
- Ⓜ Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- Ⓜ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓜ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓜ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓜ General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
- Ⓜ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓜ Johnson Co., E. F., Waseca, Minn.
- Ⓜ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓜ LaPointe-Plascomold Corp., Unionville, Conn.
- Ⓜ LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.

- Ⓜ PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Ⓜ Phelps Dodge Copper Products Corp., 40 Wall Street, New York 5, N. Y.
- Ⓜ Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Ⓜ Product Development Co., Inc., Arlington, N. J.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Ⓜ ROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓜ Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Ⓜ Transradio Ltd., 138A Cromwell Rd., London S. W. 7, England.
- Ⓜ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.

CABLE—uhf

- Ⓜ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓜ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓜ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Ⓜ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Ⓜ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓜ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓜ Chester Cable Corp., Chester, N. Y.
- Ⓜ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓜ Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓜ General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Ⓜ Plastic Wire & Cable Corp., Jewett City, Conn.
- Ⓜ Product Development Co., Inc., Arlington, N. J.
- Ⓜ Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

CALIBRATORS—Sweep

- Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓜ BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.
- Ⓜ Clarkstan Corp., 11927 SW. Pico Blvd., Los Angeles 64, Calif.
- Ⓜ Coastwise Electronics Corp., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- Ⓜ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- Ⓜ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓜ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Ⓜ Owen Laboratories, 9130 Orion St., San Fernando, Calif.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

CALIBRATORS—uhf

- Ⓜ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- Ⓜ Ferris Instrument Co., 110 Cornelia St., Boonton, N. J.
- Ⓜ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓜ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓜ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
 Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
 Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
 Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

CAMERAS—Cathode Ray Oscillograph

- American British Technology, Inc., 57 Park Ave., New York 16, N. Y.
 Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.
 Ⓢ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
 Ⓢ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 Ⓢ Du Mont Laboratories, Inc., Allen B., Television Transmitter Div., 1000 Main Ave., Clifton, N. J.
 Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.
 Ⓢ Electrodyne Company, 32 Oliver St., Boston, Mass.
 Ⓢ Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
 Ⓢ Flight Research Engineering Corp., P. O. Box 1-F, Richmond 1, Va.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
 Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
 Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
 VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266
 Ⓢ Warrick, Frederick P., 1960 Graefield Rd., Birmingham, Mich.
 Ⓢ Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

CAMERAS—Radar Recording

- Ⓢ Communication Measurements Lab., Inc., 120 Greenwich St., New York, N. Y.
 Ⓢ Flight Research Engineering Corp., P. O. Box 1-F, Richmond, Va.
 Ⓢ Maurer, Inc., J. A., 37-01 31st St., Long Island City, N. Y.
 Ⓢ Photographic Products, Inc., 955 N. Mansfield Ave., Hollywood 38, Calif.

CAMERAS—Television

- Ⓢ Du Mont Laboratories, Inc., Allen B., Television Transmitter Div., 1000 Main Ave., Clifton, N. J.
 Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
 Ⓢ Maurer, Inc., J. A., 37-01 31st St., Long Island City, N. Y.
 Ⓢ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
 Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Ⓢ Television Equipment Corp., 238 William St., New York 7, N. Y.
 Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.

CAMERAS—X-Ray

- Ⓢ Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
 Ⓢ General Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 St. John X-Ray Laboratory, Califon, N. J.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CANS

- Ⓢ ART WIRE & STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
 Ⓢ Colgate Mfg. Corp., Lindenhurst, L. I., N. Y.
 Ⓢ Craft Mfg. Co., 3949 W. Schubert St., Chicago, Ill.
 Ⓢ ELECTRO-SEAL CORP., 946 Lee St., Des Plaines, Ill. ADV. PG. 90.
 Ⓢ FALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
 Ⓢ Greene Mfg. Corp., G. G., Warren, Pa.
 Guthman Inc., Edwin I., 155 Throop St., Chicago, Ill.
 Ⓢ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
 Ⓢ Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
 Ⓢ LOJACK PRECISION CORP., 261 Worth St., New York 13, N. Y. ADV. PG. 261.
 Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.

- Ⓢ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
 Ⓢ OLYMPIC METAL PRODUCTS CO., INC., Phillipsburg, N. J. ADV. PG. 148.
 Ⓢ Paul & Beekman Inc., 1801 Cortland St., Philadelphia 40, Pa.
 Ⓢ Repath Co., Paul R., 641 E. 61st St., Los Angeles 1, Calif.
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 Ⓢ Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.
 Ⓢ Worcester Pressed Aluminum Corp., 13-15 Hope Ave., Worcester 3, Mass.

CANS—Hermetically Sealed

- Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Ⓢ Craft Mfg. Co., 3949 W. Schubert St., Chicago, Ill.
 Ⓢ ELECTRICAL INDUSTRIES, INC., 44 Summer Ave., Newark, N. J. ADV. PG. 217.
 Ⓢ ELECTRO-SEAL CORP., 946 Lee St., Des Plaines, Ill. ADV. PG. 90.
 Ⓢ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
 HERMASEAL CO., INC., Riverside Drive, Elkhart, Ind. ADV. PG. 264.

NOTE:

Throughout all capacitor listings

- (h) indicates hermetically sealed types
 (p) indicates pressure types
 (v) indicates vacuum types

CAPACITORS—Ceramic Fixed

- Ⓢ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
 Ⓢ Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn.
 Ⓢ CENTRALAB DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
 Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70. (h) (p) (v)
 Ⓢ ELECTRICAL REACTANCE CORP., Elm St., Franklinville, N. Y. ADV. PG. 28, 29.
 Ⓢ Electro-Motive Mfg. Co., South Park & John St., Willimantic, Conn.
 Ⓢ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
 Ⓢ GLENCO CORP., Metuchen, N. J. ADV. PG. 192.
 Ⓢ Herlec Corp., The, 422 N. Fifth St., Milwaukee 3, Wis. (h)
 Ⓢ Jeffers Electronics, Inc., Du Bois, Pa.
 Ⓢ Maida Development Co., 12 E. Howard St., Phoebus, Va.
 Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓢ RADIO MATERIALS CORP., 1708 Belmont Ave., Chicago 13, Ill. ADV. PG. 205.
 Ⓢ Sangamo Electric Co., Springfield, Ill.
 Ⓢ Sprague Electric Co., North Adams, Mass. (h)
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
 Ⓢ Vitramon, Inc., Stepney, Conn.

CAPACITORS—Ceramic Transmitting

- Ⓢ Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn.
 Ⓢ CENTRALAB DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
 Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70. (h) (p) (v)
 Ⓢ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
 Ⓢ Herlec Corp., The, 422 N. Fifth St., Milwaukee 3, Wis. (h)
 Ⓢ Johnson Co., E. F., Waseca, Minn.
 Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Ⓢ North American Philips Co., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Sangamo Electric Co., Springfield, Ill.
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.

CAPACITORS—Ceramic Trimmer

- Ⓢ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
 Ⓢ CENTRALAB DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
 Ⓢ ELECTRICAL REACTANCE CORP., Elm St., Franklinville, N. Y. ADV. PG. 28, 29.

- Ⓢ Electro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
 Ⓢ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
 Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
 Ⓢ Herlec Corp., The, 422 N. Fifth St., Milwaukee 3, Wis.
 Ⓢ Jeffers Electronics Inc., Du Bois, Pa.
 Ⓢ Maida Development Co., 12 E. Howard St., Phoebus, Va.
 Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓢ Special Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.
 Ⓢ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
 Ⓢ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
 Ⓢ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
 Ⓢ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.

CAPACITORS—Electrolytic

- Ⓢ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
 American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill. (h)
 Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70. (h) (p) (v)
 Cosmic Radio Corp., 853 Whittier St., New York, N. Y.
 Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)
 Ⓢ DUMONT ELECTRIC CO., 308 Dyckman St., New York, N. Y. ADV. PG. 228. (h) (p) (v)
 Ⓢ ILLINOIS CONDENSER CO., 1616 N. Throop St., Chicago, Ill. ADV. PG. 128.
 Ⓢ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
 Ⓢ Magnavox Co., The, Components Div., Fort Wayne 4, Indiana.
 Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington Street, Indianapolis 6, Ind.
 Ⓢ Micamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓢ Planet Mfg. Corp., 225 Belleville Ave., Bloomfield, N. J. (h)
 Ⓢ Pyramid Electric Co., 155 Oxford St., Paterson, N. J.
 Ⓢ Sangamo Electric Co., Springfield, Illinois (h)
 Ⓢ Sprague Electric Co., North Adams, Mass. (h)
 Ⓢ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.

CAPACITORS—Energy Storage

- Ⓢ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
 Ⓢ CONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
 Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
 Ⓢ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)
 Ⓢ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Potter Co., 1850 Sheridan Rd., North Chicago, Ill. (h)
 Ⓢ Sprague Electric Co., North Adams, Mass. (h)
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
 Ⓢ UNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236. (h)
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CAPACITORS—Fixed

- Ⓢ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
 American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill. (h)
 American Radionics Co., 33 Flatbush Ave., Brooklyn, N. Y.
 Ⓢ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
 Ⓢ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
 Ⓢ Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓈCENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65. (h)
- ⓈCONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- ⓈCORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓈCORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Cosmic Radio Corp., 853 Whittier St., New York, 59, N. Y.
- ⓈCrown Capacitor Corp., Minot & Depot Sts., Wrentham, Mass.
- ⓈDeutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
- ⓈDUMONT ELECTRIC CO., 308 Dyckman St., New York, N. Y. ADV. PG. 228. (h) (p) (v)
- ⓈEitel-McCullough, Inc., San Bruno, Calif. (v)
- ⓈELECTRICAL REACTANCE CORP., Elm St., Franklinville, N. Y. ADV. PG. 28, 29.
- ⓈElectro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- ⓈERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓈFast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill. (h)
- ⓈFilttron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y. (h)
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈGLENGO CORP., Metuchen, N. J. ADV. PG. 192.
- ⓈILLINOIS CONDENSER CO., 1616 N. Throop St., Chicago, Ill. ADV. PG. 128.
- ⓈIndustrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill. ADV. PG. 128. (h)
- ⓈJeffer Electronics Inc., DuBois, Pa.
- ⓈJENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115. (v)
- ⓈJohnson Co., E. F. Waseca, Minn. (p)
- ⓈLapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y. (p) (v)
- ⓈMaida Development Co., 12 E. Howard St., Phoebus, Va.
- ⓈMEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- ⓈMicamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈPlanet Mfg. Corp., 225 Belleville Ave., Bloomfield, N. J.
- ⓈPotter Co., 1850 Sheridan Rd., No. Chicago, Ill. (h)
- ⓈPyramid Electric Co., 155 Oxford St., Paterson, N. J.
- ⓈSangamo Electric Co., Springfield, Ill. (h)
- ⓈSprague Electric Co., North Adams, Mass. (h)
- ⓈSTACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈTelegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓈUNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CAPACITORS—Fluid Variable

- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈCONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- ⓈHammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.

CAPACITORS—Gas-filled

- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈJohnson Co., E. F., Waseca, Minn.
- ⓈLapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.

CAPACITORS—Mica Fixed

- ⓈAerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- ⓈBROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Oregon. ADV. PG. 276.
- ⓈCORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70. (h) (p) (v)
- ⓈElectro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- ⓈERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓈGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓈMallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ⓈMicamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈPlastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- ⓈSangamo Electric Co., Springfield, Illinois. (h)

- ⓈSprague Electric Co., North Adams, Mass. (h)
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈTelegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.

CAPACITORS—Mica Transmitting

- ⓈAerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- ⓈCORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70. (h) (p) (v)
- ⓈMallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ⓈNorth American Phillips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓈSangamo Electric Co., Springfield, Ill. (h)
- ⓈSprague Electric Co., North Adams, Mass. (h)
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈTelegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓈTeleradio Engineering Corp., 99 Wall St., New York, N. Y.

CAPACITORS—Mica Trimmer

- ⓈAutomatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- ⓈElectro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ⓈMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈTeleradio Engineering Corp., 99 Wall St., New York, N. Y.

CAPACITORS—Neutralizing

- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈBud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ⓈCardwell Mfg. Co., Allen D., 97 Whiting St., Plainville, Conn.
- ⓈJENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- ⓈJohnson Co., E. F., Waseca, Minn.
- ⓈMillen Mfg. Co., James, 150 Exchange St., Malden 48, Mass.
- ⓈNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈTeleradio Engineering Corp., 99 Wall St., New York, N. Y.

CAPACITORS—Oil Impregnated

- ⓈAerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill. (h)
- American Radionics Co., 33 Flatbush Ave., Brooklyn, N. Y.
- ⓈAstron Corp., 255 Grant Ave., East Newark, N. J. (h)
- ⓈChicago Condenser Corp., 3255 W. Armitage Ave., Chicago 47, Ill. (h) (p) (v)
- ⓈCONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- ⓈCORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓈCrown Capacitor Corp., Minot & Depot Sts., Wrentham, Mass.
- ⓈDeutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)
- ⓈFast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill. (h)
- ⓈFilttron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y. (h) (v)
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Girard-Hopkins, 1000 40th Ave., Oakland 1, Calif.
- ⓈIndustrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill. (h)
- ⓈMallory & Co., Inc., P. R. 3029 E. Washington St., Indianapolis 6, Ind.
- ⓈMicamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
- ⓈPotter Co., 1850 Sheridan Rd., No. Chicago, Ill. (h)
- ⓈPyramid Electric Corp., 155 Oxford St., Paterson, N. J.
- ⓈSangamo Electric Co., Springfield, Ill. (h)
- ⓈSprague Electric Co., North Adams, Mass. (h)
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈTelegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓈUNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CAPACITORS—Padder

- ⓈAutomatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- ⓈBud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ⓈCENTRALAB DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
- ⓈElectro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- ⓈJENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ⓈMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓈMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓈNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈTelegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓈTeleradio Engineering Corp., 99 Wall St., New York, N. Y.

CAPACITORS—Paper

- ⓈAerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill. (h)
- American Radionics Co., 33 Flatbush Ave., Brooklyn, N. Y.
- ⓈAstron Corp., 255 Grant Ave., East Newark, N. J. (h)
- ⓈChicago Condenser Corp., 3255 W. Armitage Ave., Chicago 47, Ill. (h) (p) (v)
- ⓈCORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. (h) (p) (v)
- Cosmic Radio Corp., 853 Whittier St., New York, N. Y.
- ⓈCrown Capacitor Corp., Minot & Depot Sts., Wrentham, Mass.
- ⓈDeutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)
- ⓈElectro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- ⓈFast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill. (h)
- Filttron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y. (h) (v)
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (v)
- ⓈIndustrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- ⓈMallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ⓈMicamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈPotter Co., 1850 Sheridan Rd., North Chicago, Ill.
- ⓈPyramid Electric Co., 155 Oxford St., Paterson, N. J.
- ⓈSangamo Electric Co., Springfield, Ill. (h)
- ⓈSprague Electric Co., North Adams, Mass. (h)
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈTelegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓈUNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236. (h)
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CAPACITORS—Plastic Dielectric

- ⓈAerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- ⓈAircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
- ⓈCONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- ⓈCrown Capacitor Corp., Minot & Depot Sts., Wrentham, Mass.
- ⓈDeutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)
- ⓈDUMONT ELECTRIC CO., 308 Dyckman St., New York, N. Y. ADV. PG. 228. (h) (p) (v)
- ⓈERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓈFast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill. (h)
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈIndustrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- ⓈMicamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y. (h)
- ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓈPlastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- ⓈPotter Co., 1850 Sheridan Rd., No. Chicago, Ill. (h)
- ⓈSprague Electric Co., North Adams, Mass. (h)
- ⓈTelegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓪ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.
- ⓪ UNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236. (h)

CAPACITORS—Plastic Trimmer

- ⓪ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- ⓪ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ STACKPOLE CARBON CO., St. Mary's, Pa. ADV. PG. 166, 167.

CAPACITORS—Power Factor

- ⓪ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- ⓪ CENTRALAB DIV. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65. (h)
- ⓪ CONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- ⓪ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓪ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)
- ⓪ Fast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill. (h)
- ⓪ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓪ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- ⓪ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓪ Potter Co., 1850 Sheridan Rd., No. Chicago, Ill. (h)
- ⓪ Sprague Electric Co., North Adams, Mass. (h)
- ⓪ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓪ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓪ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CAPACITORS—Precision Air

- ⓪ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ⓪ Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn.
- ⓪ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓪ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- ⓪ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓪ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- ⓪ NATIONAL CO. INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓪ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓪ Teleradio Engineering Co., 99 Wall St., New York, N. Y.

CAPACITORS—Silvered Mica

- ⓪ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- ⓪ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓪ Electro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- ⓪ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓪ Jeffers Electronics Inc., DuBois, Pa.
- ⓪ Micamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- ⓪ Sangamo Electric Co., Springfield, Ill. (h)
- ⓪ Sprague Electric Co., North Adams, Mass. (h)
- ⓪ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- ⓪ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓪ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.

CAPACITORS—Small High Voltage

- ⓪ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill. (h)
- ⓪ CENTRALAB DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
- ⓪ CONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- ⓪ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ⓪ Crown Capacitor Corp., Minot & Depot Sts., Wrentham, Mass.
- ⓪ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)

- ⓪ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓪ Fast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill. (h)
- ⓪ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓪ Herlec Corp., The, 422 N. Fifth St., Milwaukee 3, Wis.
- ⓪ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- ⓪ Jeffers Electronics Inc., DuBois, Pa.
- ⓪ JENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- ⓪ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓪ Potter Co., 1850 Sheridan Rd., No. Chicago, Ill. (h)
- ⓪ Pyramid Electric Co., 155 Oxford St., Paterson, N. J.
- ⓪ Sangamo Electric Co., Springfield, Ill. (h)
- ⓪ Sprague Electric Co., North Adams, Mass. (h)
- ⓪ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓪ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓪ UNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236. (h)
- ⓪ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CAPACITORS—Trimmer

- ⓪ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- ⓪ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ⓪ CENTRALAB DIV. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
- ⓪ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- ⓪ ELECTRICAL REACTANCE CORP., Elm St., Franklinville, N. Y. ADV. PG. 28, 29.
- ⓪ Electro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- ⓪ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- ⓪ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- ⓪ Jeffers Electronics Inc., DuBois, Pa.
- ⓪ JENNINGS RADIO MFG CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- ⓪ Johnson Co., E. F., Waseca, Minn.
- ⓪ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ⓪ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓪ NATIONAL CO. INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓪ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ Sackles Co., F. W., P. O. Box 330, Chicopee, Mass.
- ⓪ STACKPOLE CARBON CO., St. Mary's, Pa. ADV. PG. 166, 167.
- ⓪ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓪ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.
- ⓪ Welwyn Electronic Components, Inc., 234 E. 46th St., New York 17, N. Y.

CAPACITORS—Trimmer Receiving

- ⓪ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- ⓪ CENTRALAB DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
- ⓪ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- ⓪ Electro Motive Mfg. Co., South Park & John St., Willimantic, Conn.
- ⓪ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓪ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- ⓪ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- ⓪ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ⓪ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓪ NATIONAL CO. INC., 61 Sherman St., Malden, Mass. ADV. PG. 33 to 36.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ Sarkes Tarzian Inc., 415 N. College Ave., Bloomington, Ind.
- ⓪ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓪ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.

CAPACITORS—Variable Receiver Tuning

- ⓪ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓪ Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn.

- ⓪ CENTRALAB DIV. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65. (h)
- ⓪ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓪ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
- ⓪ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- ⓪ Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- ⓪ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- ⓪ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓪ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- ⓪ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓪ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓪ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓪ Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ Radio Condenser Co., Camden, N. J.
- ⓪ Variable Condenser Corp., 65 Hope St., Brooklyn, N. Y.

CAPACITORS—Variable Transmitter Tuning

- ⓪ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ⓪ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓪ Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn.
- ⓪ CENTRALAB DIV. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65. (h)
- ⓪ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓪ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
- ⓪ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- ⓪ JENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115. (v)
- ⓪ Johnson Co., E. F., Waseca, Minn. (p)
- ⓪ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., Le Roy, N. Y. (p) (v)
- ⓪ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓪ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓪ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.

CAPACITORS—Wax Impregnated

- ⓪ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass. (h)
- American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill. (h)
- American Radionics Co., 33 Flatbush Ave., Brooklyn, N. Y.
- ⓪ Astron Corp., 255 Grant Ave., East Newark, N. J. (h)
- ⓪ CENTRALAB DIV. of Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65. (h)
- ⓪ Chicago Condenser Corp., 3255 W. Armature Ave., Chicago 47, Ill. (h) (p) (v)
- ⓪ CONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- ⓪ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Cosmic Radio Corp., 853 Whittier St., New York 59, N. Y.
- ⓪ Crown Capacitor Corp., Minot & Depot Sts., Wrentham, Mass.
- ⓪ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass. (h)
- ⓪ DUMONT ELECTRIC CO., 308 Dyckman St., New York, N. Y. ADV. PG. 228. (h) (p) (v)
- ⓪ Fast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill. (h)
- ⓪ Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y. (h)
- ⓪ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Girard-Hopkins, 1000 40th Ave., Oakland 1, Calif.
- ⓪ ILLINOIS CONDENSER CO., 1616 N. Throop St., Chicago 22, Ill. ADV. PG. 128.
- ⓪ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill. (h)
- ⓪ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ⓪ Micamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
- ⓪ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. (h)
- ⓪ Potter Co., 1850 Sheridan Rd., No. Chicago, Ill. (h)
- ⓪ Pyramid Electric Co., 155 Oxford St., Paterson, N. J.
- ⓪ Sangamo Electric Co., Springfield, Ill. (h)
- ⓪ Sprague Electric Co., North Adams, Mass. (h)
- ⓪ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓪ Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3, England.
- ⓪ UNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236. (h)

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CARDIOTACHOMETERS

- Ⓢ SANBORN CO., 39 Osborne St., Cambridge 39, Mass. ADV. PG. 219.

CASES, PORTABLE

(for Radios, Phonographs, Amplifiers, etc.)

- Ⓢ ALLIED RADIO CORP., 833 W. Jackson Blvd., Chicago 7, Ill. ADV. PG. 226.
- Ⓢ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- Ⓢ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓢ Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- Ⓢ Eastern Case Co., 55 S. 11th St., Brooklyn 11, N. Y.
- Ⓢ Garrard Sales Corp., 164 Duane St., New York 13, N. Y.
- Ⓢ Hawley Products Co., St. Charles, Ill.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- Ⓢ LOJACK PRECISION CORP., 93 Worth St., New York 13, N. Y. ADV. PG. 261.
- Ⓢ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓢ Pentron Corp., The, 611 W. Division St., Chicago 10, Ill.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ RICHARDSON CO. THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Ⓢ Triad Portable Case Corp., 2545 Boston Rd., Bronx 67, N. Y.
- Ⓢ Waterbury Companies, Inc., Waterbury 90, Conn.

CELLS—Photoelectric

- Ⓢ American Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
- Ⓢ BRADLEY LABS., INC., 82 Meadows St., New Haven 10, Conn. ADV. PG. 152.
- Ⓢ Continental Electric Co., Geneva, Ill.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ INSTRUMENT DEVELOPMENT LABORATORIES, INC., Needham Heights, Mass. ADV. PG. 243.
- Ⓢ International Rectifier Corp., 6809 S. Victoria Ave., Los Angeles 43, Calif.
- Ⓢ Mackay Laboratories, 1946 N. Kedzie, Chicago, Ill.
- Ⓢ Photobell Company, 116 Nassau St., New York 7, N. Y.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ Vickers Electric Div., Vickers, Inc., 1815 Locust St., St. Louis 3, Mo.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

CEMENTS—Radio

- Ⓢ Ambroid Co., 305 Franklin St., Boston 10, Mass.
- Ⓢ Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓢ Borden Co., The, Chemical Div., 350 Madison Ave., New York 17, N. Y.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- Ⓢ Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- Ⓢ Moyer, C. P., 908 Chicago Ave., Chicago, Ill.
- Ⓢ Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
- Ⓢ Sauereisen Cements Co., Sauereisen Building, Pittsburgh 15, Pa.
- Ⓢ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

CERAMICS

See Insulation Materials

CHAMBERS—Test

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Ⓢ Bowser, Inc., Refrigeration Div., Terryville, Conn.
- Ⓢ Serdex, Inc., 91 Cambridge St., Boston, Mass.
- Ⓢ Statham Laboratories, Inc., 9328 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Tenny Engineering Inc., 26 Avenue B, Newark 5, N. J.

CHANGERS—Automatic Record

- Ⓢ Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Ⓢ Garrard Sales Corp., 164 Duane St., New York 13, N. Y.
- Ⓢ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.

- Ⓢ V-M Corp., Benton Harbor, Mich.
- Ⓢ Webster-Chicago Corp., 5622 Bloomingdale Ave., Chicago 39, Ill.

CHARGERS—Battery

See Battery Chargers

CHASSIS, BREADBOARD

- Ⓢ Uni-Products Inc., 1048 Potomac St., N. W., Washington 7, D. C.

CHASSIS—Metal

- Ⓢ ABALON PRECISION MFG. CORP., 540 Casanova St., Bronx 59, N. Y. ADV. PG. 268.
- Ⓢ ART-LOYD METAL PRODUCTS CORP., 2973 Cropsy Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Ⓢ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Columbia Metal Box Co., 260 E. 143rd St., New York, N. Y.
- Ⓢ Craft Mfg. Co., 3949 W. Schubert St., Chicago, Ill.
- Ⓢ Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓢ FALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
- Ⓢ Garrett Co., Inc., G. K., D & Tioga Sts., Philadelphia 34, Pa.
- Ⓢ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ Intervox Corp., 2701 California Ave., Seattle 6, Calif.
- Ⓢ Johnson Co., E. F., Waseca, Minn.
- Ⓢ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓢ Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Ⓢ LOJACK PRECISION CORP., 93 Worth St., New York 13, N. Y. ADV. PG. 261.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓢ Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.
- Ⓢ MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓢ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- National Electrical Machine Shops, Inc., 919 Jesup-Blair Dr., Silver Spring, Md.
- Ⓢ Northeastern Engineering, Inc., Manchester, N. H.
- Ⓢ OLYMPIC METAL PRODUCTS CO., INC., Phillipsburg, N. J. ADV. PG. 148.
- Ⓢ PAR-METAL PRODUCTS CORP., 32-62 49th St., Long Island City 3, N. Y. ADV. PG. 242.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Pierce Template Corp., 2646 N. Coral St., Philadelphia 25, Pa.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- Ⓢ Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Ⓢ Repath Co., Paul R., 641 E. 61st St., Los Angeles 1, Calif.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Stamford Metal Specialty Co., Inc., 429 W. Broadway, New York 12, N. Y.
- Ⓢ Uni-Products Inc., 1048 Potomac St., N. W., Washington 7, D. C.
- Ⓢ Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

CHASSIS—Wood

- Elm Laboratories, 18 S. Broadway, Dobbs Ferry, N. Y.

CHECKERS

See also Analyzers

CHECKERS—Crystal Rectifier

- Ⓢ Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- American Electronizing Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Globe Products Corp., P. O. Box 197, Southport, Conn.
- MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.

CHECKER—QX

- Ⓢ Clough Brengle Co., 6014 N. Broadway, Chicago, Ill.

CHECKERS—vht Circuit

- American Electronizing Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.

CHEMICALS—Luminescent

- Ⓢ Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.
- Ⓢ du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
- Ⓢ du Pont de Nemours & Co., Inc., E. I., Patterson Screen Div., Towanda, Pa.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Mallinckrodt Chemical Works, Second & Mallinckrodt Sts., St. Louis 7, Mo.
- Ⓢ Merck & Co., Inc., Rahway, N. J.
- Ⓢ Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Ⓢ RADIP CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

NOTE:

Throughout all choke listings:

(h) indicates hermetically sealed types

CHOKES—Audio

- Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
- Ⓢ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- Ⓢ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275.
- Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓢ American Transformer Co., 285 Emmett St., Newark, N. J.
- Ⓢ Atlas Coil Winders, Inc., Stamford, Conn.
- Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ Best Mfg. Co., Inc., 1200 Grove St., Irvington 1, N. J.
- Ⓢ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓢ CHICAGO TRANSFORMER DIV., Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225.
- Ⓢ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill.
- Ⓢ Dinion Coil Co., Inc., Caledonia, N. Y.
- Ⓢ Electran Mfg. Co., 4596 Elston Ave., Chicago, Ill (h)
- Ⓢ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill.
- Electronic Products Div., Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y.
- Ⓢ ELECTRONIC TRANSFORMER CO., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.
- Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
- Ⓢ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- General Transformer Corp., 18240 Harwood Ave., Homewood, Ill.
- Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif.
- Ⓢ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- Ⓢ Hofmann Corp., C. L., 436 Blvd. of Allies, Pittsburgh, Pa.
- Ⓢ Hycor Co., 11423 Vanowen St., North Hollywood, Calif.
- Inductive Equipment Co., Gettysburg, Pa.
- Jefferson Electric Co., Bellwood, Ill.
- Ⓢ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- Ⓢ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135.
- Ⓢ Langevin Manufacturing Corp., 37 W. 65th St., New York 23, N. Y.
- Ⓢ Lenkurt Electric Co., Inc., San Carlos, Calif.
- Ⓢ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓢ Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill.
- Ⓢ NEW YORK TRANSFORMER CO., INC., Third Ave., Alpha, N. J. ADV. PG. 184.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles, Calif.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Radio-Music Corp., Port Chester, N. Y.
 Radionic Transformer Co., 411 S. Sangamon St., Chicago 7, Ill.
 Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J. (h)
 ⓈROLA CO., INC., THE, 2530 Superior Ave., Cleveland 14, Ohio. ADV. PG. 43.
 Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
 ⓈS. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
 ⓈSHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221. (h)
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., So. Pasadena, Calif.
 ⓈSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas. (h)
 ⓈStandard Electrical Products Co., 402 E. 1st St., Dayton 3, Ohio.
 ⓈSTANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
 ⓈStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif.
 ⓈSuper Electric Products Corp., 46 Oliver St., Newark, N. J.
 ⓈTele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
 ⓈThermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.
 ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 ⓈTransformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif. (h)
 ⓈTriad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
 ⓈUNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 ⓈWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

CHOKES—Filter

ⓈA. P. W. Co., 72 W. Main St., Rockaway, N. J.
 ⓈACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
 Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa. (h)
 ⓈAcro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
 ⓈAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 ⓈAIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275.
 ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
 ⓈAMERICAN TELEVISION & RADIO CO., 300 E. 4th St., St. Paul 1, Minn. ADV. PG. 275.
 ⓈAmerican Transformer Co., 285 Emmett St., Newark, N. J. (h)
 ⓈAtlas Coil Winders, Inc., Stamford, Conn.
 ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. (h)
 ⓈBest Mfg. Co., Inc., 1200 Grove St., Irvington 11, N. J.
 Bitterman Electric Co., Box 665, Canaan, Conn.
 ⓈBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
 ⓈCaddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
 ⓈCHICAGO TRANSFORMER DIV., Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225. (h)

Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
 ⓈCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 ⓈCOMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178.
 ⓈContinental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.
 ⓈCrest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill.
 ⓈDECOURSEY ENGINEERING LAB., P. O. Box 235, Los Angeles 25, Calif. ADV. PG. 254.
 ⓈDresser Electric Co., 942 E. Larned St., Detroit 7, Mich. (h)
 ⓈDinon Coil Co., Inc., Caledonia, N. Y. (h)
 ⓈElectran Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)
 ⓈElectrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
 ⓈElectricoil Transformer Co., Westerly Rd., Ossining, N. Y. Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
 ⓈELECTRONIC TRANSFORMER CO., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
 ⓈEmpire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.
 ⓈEssex Electronics, Berkeley Heights, N. J. (h)
 ⓈFERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
 ⓈFiltron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
 ⓈFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
 ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 General Transformer Co., 18240 Harwood Ave., Home-wood, Ill.

Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
 ⓈGramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill.
 ⓈHalldorson Co., The, 4500 Ravenswood Ave., Chicago 40, Ill.
 Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
 ⓈHIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
 Inductive Equipment Co., Gettysburg, Pa.
 ⓈK-V Transformer Co., 4414 Park Ave., New York 57, N. Y.
 ⓈKENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
 ⓈLangevin Manufacturing Corp., 37 W. 65th St., New York 23, N. Y. (h)
 ⓈLenkurt Electric Co., Inc., San Carlos, Calif. (h)
 ⓈMagnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 ⓈMallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 ⓈMerit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill.
 ⓈMiller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
 ⓈNEW YORK TRANSFORMER CO., INC., Third Ave., Alpha, N. J. ADV. PG. 184. (h)
 ⓈOPAD-GREEN CO., 71 Warren St., New York 7, N. Y. ADV. PG. 274.
 Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
 ⓈPhlico Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Radonic Transformer Co., 411 S. Sangamon St., Chicago 7, Ill.
 ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
 ⓈROLA CO., INC., The, 2530 Superior Ave., Cleveland 14, Ohio. ADV. PG. 43.
 Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
 ⓈS. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., So. Pasadena, Calif.
 ⓈSORENSEN & CO., INC., 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
 ⓈSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas. (h)
 ⓈStandard Electrical Products Co., 402 E. 1st St., Dayton 3, Ohio.
 ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓈSTANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
 ⓈStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif.
 ⓈSuper Electric Products Corp., 46 Oliver St., Newark, N. J.
 ⓈTele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
 ⓈThermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.
 ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 ⓈTransformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif. (h)
 ⓈTriad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
 ⓈUNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. Inside Front Cover. (h)
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 ⓈWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

CHOKES—Power

ⓈACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
 Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa. (h)
 ⓈAcro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
 ⓈAIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275.
 ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
 American Communications Corp., 306 Broadway, New York 7, N. Y.
 ⓈAtlas Coil Winders, Inc., Stamford, Conn.
 ⓈBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. (h)
 Bitterman Electric Co., Box 665, Canaan, Conn.
 ⓈBOND ELECTRONICS CORP., 88 Franklin Pl., Summit, N. J. ADV. PG. 250.
 ⓈCHICAGO TRANSFORMER DIV., Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225. (h)
 ⓈCIMA CORP., 91 Boylston St., Jamaica Plain 32, Mass. ADV. PG. 269.
 ⓈCrest Transformer Corp., 1834-26 W. North Ave., Chicago 22, Ill.
 ⓈDinon Coil Co., Inc., Caledonia, N. Y. (h)
 ⓈDresser Electric Co., 942 E. Larned St., Detroit 7, Mich. (h)
 ⓈElectran Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)

ⓈElectrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
 ⓈElectricoil Transformer Co., Westerly Rd., Ossining, N. Y. Electro Engineering Works, 6021 College Ave., Oakland 18, Calif.
 ⓈELECTRONIC TRANSFORMER CO., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
 ⓈEssex Electronics, Berkeley Heights, N. J. (h)
 ⓈFERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
 ⓈFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
 ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 General Transformer Co., 18240 Harwood Ave., Home-wood, Ill.
 Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
 ⓈGramer Company, The, 2734 N. Pulaski Rd., Chicago 39, Ill.
 Hartley Co., Ltd., H. A. 152 Hammersmith Rd., London W. 6, England.
 ⓈHercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
 ⓈHIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
 Inductive Equipment Co., Gettysburg, Pa.
 ⓈK-V Transformer Co., 4414 Park Ave., New York 57, N. Y.
 ⓈKENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
 ⓈLangevin Manufacturing Corp., 37 W. 65th St., New York, N. Y. (h)
 ⓈLenkurt Electric Co., Inc., San Carlos, Calif. (h)
 ⓈMagnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 ⓈMerit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill.
 ⓈOHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
 ⓈOPAD-GREEN CO., 71 Warren St., New York 7, N. Y. ADV. PG. 274.
 Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
 ⓈPhlico Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
 ⓈS. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
 ⓈStandard Electrical Products Co., 402 E. 1st St., Dayton 3, Ohio.
 ⓈSTANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
 ⓈStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif.
 ⓈSuper Electric Products Corp., 46 Oliver St., Newark, N. J.
 ⓈThermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.
 ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 ⓈTriad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
 ⓈUNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 ⓈWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

CHOKES—r-f (Heavywire Low Voltage)

ⓈA. P. W. Co., 72 W. Main St., Rockaway, N. J.
 ⓈACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
 ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 ⓈAtlas Coil Winders, Inc., Stamford, Conn.
 Bitterman Electric Co., Box 665, Canaan, Conn.
 ⓈBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
 ⓈCaddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
 ⓈCIMA CORP., 91 Boylston St., Jamaica Plains 30, Mass. ADV. PG. 269.
 Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y. (h)
 ⓈCOMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
 Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
 ⓈELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
 ⓈFast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill.
 ⓈFiltron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
 ⓈHercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
 Inductive Equipment Co., Gettysburg, Pa.
 ⓈINSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
 ⓈINSULINE CORP. OF AMERICA, 36-02 35th Ave., Lona Island City, N. Y. ADV. PG. 246, 247.
 ⓈINTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓥ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓥ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓥ OHMITE MFG. CO., 4835 W. Flounoy St., Chicago 44, Ill. ADV. PG. 83.
- Ⓥ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓥ Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Ⓥ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- Ⓥ Standard Electrical Products Co., 402 E. 1st St., Dayton 2, Ohio.
- Ⓥ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif.
- Ⓥ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.

CHOKES—r-f & i-f

- Ⓥ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Ⓥ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓥ Atlas Coil Winders, Inc., Stamford, Conn.
- Ⓥ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- Ⓥ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓥ BOND ELECTRONICS CORP., 88 Franklin Pl., Summit, N. J. ADV. PG. 250.
- Ⓥ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- Ⓥ Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- Ⓥ CAMBRIDGE THERMONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Ⓥ Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- Ⓥ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- Ⓥ Clippard Instrument Laboratory, Inc., 1125 Bank St., Cincinnati 14, Ohio.
- Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y. (h)
- Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
- Ⓥ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓥ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- Ⓥ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Essex Electronics, Berkeley Heights, N. J. (h)
- Ⓥ FUGLE-MILLER LABORATORIES, 398 Main St., Metuchen, N. J. ADV. PG. 164.
- Ⓥ Globe Products Corp., P. O. Box 197, Southport, Conn.
- Ⓥ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
- Ⓥ HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
- Ⓥ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 11, Ill. ADV. PG. 276.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ INSTRUMENT RESISTORS INC., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- Ⓥ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓥ INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- Ⓥ Jeffers Electronics Inc., DuBois, Pa.
- Ⓥ Johnson Co., E. F., Waseca, Minn.
- Leonard Electric Products Co., 1562 61st St., Brooklyn, N. Y.
- Ⓥ Lewis Spring & Mfg. Corp., 2656 W. North Ave., Chicago 47, Ill.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓥ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Meissner Mfg. Div., Maguire Industries Inc., Mt. Carmel, Ill.
- Ⓥ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓥ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
- Ⓥ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓥ OHMITE MFG. CO., 4835 W. Flounoy St., Chicago 44, Ill. ADV. PG. 83.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓥ Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Ⓥ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221. (h)
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- Ⓥ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Ⓥ Standard Electrical Products Co., 402 E. 1st St., Dayton 2, Ohio.
- Ⓥ Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.

- Ⓥ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- Ⓥ Super Electric Products Corp., 46 Oliver St., Newark, N. J.
- Ⓥ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.
- Ⓥ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Wilkor Products, Inc., 3835 W. 150th St., Cleveland 11, Ohio.

CHRONAXIMETERS

- Ⓥ Electro-Medical Lab., Holliston, Mass.
- Ⓥ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.

CHRONOGRAPHS—Inertialess

- Ⓥ Airlectron, P. O. Box 151, Caldwell, N. J.
- Ⓥ Electro-Medical Lab. Inc., Holliston, Mass.
- Ⓥ Gorrell & Gorrell, Haworth, N. J.
- Ⓥ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.

CHRONOSCOPES

- Ⓥ AMERICAN CHRONOSCOPE CORP., 316 W. First St., Mt. Vernon, N. Y. ADV. PG. 84.
- Ⓥ Berkeley Scientific Co., Richmond, Calif.
- Ⓥ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓥ RAWSON ELECTRICAL CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓥ Standard Electric Time Co., 89 Logan St., Springfield, Mass.
- Ⓥ Sticht Co., Inc., Herman, 27 Park Place, New York 7, N. Y.

CIRCUITS—Printed or Stamped

- Austin Co., Inc., 0, 335 Throop Ave., Brooklyn 21, N. Y.
- Ⓥ CENTRALLAB, DIV. of Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓥ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓥ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Electronic Mechanics Inc., 70 Clifton Blvd., Clifton, N. J.
- Ⓥ Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- Ⓥ Herlec Corp., The, 422 Fifth St., Milwaukee 3, Wis.
- Ⓥ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓥ Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.

CITIZENS RADIO

- Ⓥ Carnine & Bitter, 2332 Ontario Rd., NW, Washington 9, D. C.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

CLIPS—Grid

- Ⓥ AEROLITE ELECTRONIC HARDWARE CORP., 506 26th St., Union City, N. J. ADV. PG. 138.
- Ⓥ Aircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
- Ⓥ CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓥ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓥ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓥ Johnson Co., E. F., Waseca, Minn.
- Ⓥ Kulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
- Ⓥ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓥ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓥ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓥ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.

CLIPS & CLAMPS—Test & Tube

- Ⓥ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓥ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.

- Birtcher Corp., 5087 Huntington Dr., Los Angeles 32, Calif.
- Ⓥ BREEZE CORPNIS, INC., 41 S. Sixth St., Newark 7, N. J. ADV. PG. 93.
- Ⓥ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓥ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓥ Grammes & Sons Inc., L. F., 389 Union St., Allentown 2, Pa.
- Ⓥ GRAYHILL, 4524 W. Madison St., Chicago 24, Ill. ADV. PG. 250.
- Ⓥ Gregory Mfg. Co., Inc., The, 67 Franklin St., New Haven 11, Conn.
- Ⓥ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓥ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓥ Johnson Co., E. F., Waseca, Minn.
- Ⓥ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓥ Mineralac Electric Co., 25 N. Peoria St., Chicago, Ill.
- Ⓥ Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
- Ⓥ Mueller Electric Co., 1583 E. 31st St., Cleveland 14, Ohio.
- Ⓥ Penn-Union Electric Corp., 315 State Street, Erie, Pa.
- Prestole Corp., 3119 Bellevue Rd., Toledo 6, Ohio.
- Ⓥ Rapid Specialties Co., 325 W. Huron St., Chicago 10, Ill.
- Ⓥ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓥ TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.
- Ⓥ Tinnerman Products Inc., 2038 Fulton Rd., Cleveland 13, Ohio.
- Ⓥ Trico Fuse Mfg. Co., 2948 N. Fifth, Milwaukee 12, Wis.
- Ⓥ United Technical Labs., Box 425-W, Morristown, N. J.

CLOTHS—Speaker Grille

- Ⓥ Bestcraft Products, 14 Delancey St., New York, N. Y.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓥ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓥ Olek & Sons, Inc., A., 4757-59 Melrose St., Philadelphia 37, Pa.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.

CLOTHS—Woven Wire

- Ⓥ Bestcraft Products, 14 Delancey St., New York, N. Y.
- Ⓥ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓥ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓥ JELLIFF MFG. CORP., C. O., 200 Pequot Ave., Southport, Conn. ADV. PG. 46.
- MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓥ Schott, Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.

COATINGS—Conductive

See Also, Graphite, Colloidal

- Ⓥ Acheson Colloids Corp., Port Huron, Mich.
- Ⓥ Austin Co., 0, 335 Throop Ave., Brooklyn 21, N. Y.
- Ⓥ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓥ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- Ⓥ Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓥ MICRO-CIRCUITS CO., New Buffalo, Mich. ADV. PG. 222.
- Ⓥ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓥ Sauereisen Cements Co., Sauereisen Bldg., Pittsburgh 15, Pa.
- Superior Flake Graphite Co., 33 S. Clark St., Chicago 3, Ill.
- Ⓥ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

COATINGS-CONDUCTIVE—Tube Interior

- Ⓥ Acheson Colloids Corp., Port Huron, Mich.
- Ⓥ MICRO-CIRCUITS CO., New Buffalo, Mich. ADV. PG. 222.
- Ⓥ Optical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Premier Crystal Labs, Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Superior Flake Graphite Co., 33 S. Clark St., Chicago 3, Ill.

COATINGS—Protective

- Acheson Colloids Corp., Port Huron, Mich.
- American Chemical Paint Co., Ambler, Pa.
- Austin Co., O., 335 Throop Ave., Brooklyn 21, N. Y.
- BIWAX CORP., 3445 Howard St., Skokie, Ill. ADV. PG. 242.
- Dow Chemical Co., Midland, Mich.
- Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
- Egyptian Lacquer Mfg. Co., Lafayette, Ind.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- George Co., P. D., 5200 N. 2nd St., St. Louis, Mo.
- Hamilton Kent Mfg. Co., Kent, Ohio.
- INSL-X CO., INC., Water St. & Broadway, Ossining, N. Y. ADV. PG. 256.
- Lukens Steel Co. and Divisions, By-Products Steel Co. and Lukenweld, 447 Lukens Building, Coatesville, Pa.
- MICRO-CIRCUITS CO., New Buffalo, Mich. ADV. PG. 222.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Nukem Products Corp., 111 Colgate Ave., Buffalo 20, N. Y.
- Paisley Products Inc., 1770 Canalport Ave., Chicago 16, Ill.
- Reilly Tar & Chemical Corp., 1615 Merchants Bank Bldg., 11 S. Meridan St., Indianapolis, Ind.
- Sauerseisen Cements Co., Sauerseisen Bldg., Pittsburgh 15, Pa.
- Schenectady Varnish Co., Schenectady, N. Y.
- Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
- Union Bay State Chemical Co., Cambridge, Mass.
- U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

COATINGS—Salt Spray Resistance

- Acheson Colloids Corp., Port Huron, Mich.
- Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
- Egyptian Lacquer Mfg. Co., Lafayette, Ind.
- George Co., P. D., 5200 N. 2nd St., St. Louis, Mo.
- Hamilton Kent Mfg. Co., Kent, Ohio.
- INSL-X CO., INC., Water St. & Broadway, Ossining, N. Y. ADV. PG. 256.
- Nukem Products Corp., 111 Colgate Ave., Buffalo 20, N. Y.
- Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit, Mich.
- Reilly Tar & Chemical Corp., 1615 Merchants Bank Bldg., 11 S. Meridan St., Indianapolis, Ind.
- Schenectady Varnish Co., Schenectady, N. Y.
- Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Special Chemicals Corp., 30 Irving Pl., New York, N. Y.
- Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

CODE & TAB MARKERS

- Austin Co., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Topflight Tape Co., Huber Bldg., York, Pa.
- Western Lithograph Co., E-Z Code Div., 600 E. Second St., Los Angeles 54, Calif.

COIL ASSEMBLIES

- A.P.W. Co., 72 W. Main St., Rockaway, N. J.
- Acme Wire Co., New Haven 14, Conn.
- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
- American Relay & Controls Inc., 4901 W. Flounroy St., Chicago 44, Ill.
- Atlas Coil Winders, Inc., Stamford, Conn.
- Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bitterman Electric Co., Box 665, Canaan, Conn.
- BOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.

- Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Clippard Instrument Laboratory, Inc., 1125 Bank St., Cincinnati 14, Ohio.
- Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Collins Radio Co., Cedar Rapids, Iowa.
- Connecticut Telephone & Electric Div. of Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- DANO ELECTRIC CO., Main St., Winsted, Conn. ADV. PG. 273.
- Davis & Co., Dean W., Kentland, Ind.
- Eastern Specialty Co., Philadelphia 40, Pa.
- Electran Mfg. Co., 4596 Elston Ave., Chicago, Ill.
- Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- ELECTRONIC DESIGNS INC., Irvington, N. J. ADV. PG. 199.
- Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Essex Electronics, Berkeley Heights, N. J.
- Etraco Mfg. Co., Inc., Woods Church Rd., Flemington, N. J.
- FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- FUGLE-MILLER LABORATORIES, 398 Main St., Metuchen, N. J. ADV. PG. 164.
- Gaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
- HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau St., Brooklyn 22, N. Y. ADV. PG. 46.
- HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago, Ill. ADV. PG. 276.
- Inductive Equipment Co., Gettysburg, Pa.
- INSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- Johnson Co., E. F., Waseca, Minn.
- K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Lenkurt Electric Co., Inc., San Carlos, Calif.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Magnetic Devices Corp., 103 S. Van Brunt St., Englewood, N. J.
- Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa.
- Meissner Mfg. Div., Maguire Industries Inc., Mt. Carmel, Ill.
- MEPCO, INC., 35-37 Abnett Ave., Morristown, N. J. ADV. PG. 196.
- Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Polytron Corp., 133 Martine Ave., White Plains, N. Y.
- Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Radex Corp., 2076 N. Elston Ave., Chicago 14, Ill.
- Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
- Reisner Mfg. Co., Hagerstown, Md.
- Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- S.N.C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
- Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- Slepian Co., Arthur, Bridgeport, Conn.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- Speer Resistor Corp., St. Marys, Pa.
- SPERRY GYROSCOPE CO., Div. of the Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Standard Electrical Products Co., 402 E. 1st St., Dayton 3, Ohio.
- Stanwyck Winding Co., 137 Walsh Ave., Newburg, N. Y.
- Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif.
- Super Electric Products Corp., 46 Oliver St., Newark, N. J.
- Telradio Engineering Corp., 99 Wall St., New York 5, N. Y.

- Television Laboratories, Inc., 542 N. Parkside Ave., Chicago 44, Ill.
- U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Utah, Inc., E. Franklin St., Huntington, Ind.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

COIL WINDING MACHINES

See Machines—Coil Winding

COIL WINDINGS

- A.P.W. Co., 72 W. Main St., Rockaway, N. J.
- Acme Wire Co., New Haven 14, Conn.
- Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
- Aeromotive Equipment Corp., 1632-8 Central St., Kansas City 10, Mo.
- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
- Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American Relay & Controls, Inc., 4901 Flounroy St., Chicago 44, Ill.
- Atlas Coil Winders, Inc., Stamford, Conn.
- Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bitterman Electric Co., Box 665, Canaan, Conn.
- BOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Connecticut Telephone & Electric Div., Great American Industries Inc., 70 Britannia St., Meriden, Conn.
- Coto-Coil Co., 65 Pavilion Ave., Providence 5, R. I.
- DANO ELECTRIC CO., Main St., Winsted, Conn. ADV. PG. 273.
- Davis & Co., Dean W., Kentland, Indiana.
- Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
- Electran Mfg. Co., 4596 Elston Ave., Chicago, Ill.
- Electrical Coil Winding Co., 2733 Saunders St., Camden, N. J.
- Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill.
- Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- ELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV. PG. 199.
- Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Etraco Mfg. Co., Inc., Woods Church Rd., Flemington, N. J.
- FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Gaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Gramer Company, The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
- HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- I-T-E CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.
- Inductive Equipment Co., Gettysburg, Pa.
- INSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- INSULINE CORP OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Jeffers Electronics Inc., Du Bois, Pa.
- Johnson Co., E. F., Waseca, Minn.
- K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Lenkurt Electric Co., Inc., San Carlos, Calif.
- Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Lewis Spring & Mfg. Corp., 2656 W. North Ave., Chicago 47, Ill.
- Ⓢ Magnetic Devices Corp., 103 S. Van Brunt St., Englewood, N. J.
- Ⓢ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- Ⓢ Magnetic Windings Div., Essex Wire Corp., Freemanburg Ave. & Hobson Blvd., Easton, Pa.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓢ MEPCO, INC., 35-37 Abbett Ave., Morristown, N. J. ADV. PG. 196.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓢ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- Ⓢ Polytron Corp., 133 Martine Ave., White Plains, N. Y.
- Ⓢ Quality Components, Inc., St. Marys, Pa.
- Ⓢ Radex Corp., 2076 N. Elston Ave., Chicago 14, Ill.
- Radionic Transformer Co., 411 S. Sangamon St., Chicago 7, Ill.
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
- Reisner Mfg. Co., Hagerstown, Md.
- Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Ⓢ S.N.C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
- Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- Slepian Co., Arthur, Bridgeport, Conn.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S. Pasadena, Calif.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓢ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Standard Electrical Products Co., 402 E. 1st St., Dayton 2, Ohio.
- Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.
- Ⓢ Sterling Engineering Co., Laconia, N. H.
- Ⓢ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- Ⓢ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.
- Ⓢ Television Laboratories, Inc., 542 N. Parkside Ave., Chicago 44, Ill.
- Ⓢ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- Ⓢ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.
- Ⓢ Union Electric Products Co., 24 Edison Pl., Newark 2, N. J.
- Ⓢ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Utah, Inc., E. Franklin St., Huntington, Ind.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Ⓢ WEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
- Ⓢ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

COILS—Antenna

- Aeromotive Equipment Corp., 1632-8 Central St., Kansas City 10, Mo.
- Ⓢ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓢ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Ⓢ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ BOND ELECTRONICS CORP., 88 Franklin Pl., Summit, N. J. ADV. PG. 250.
- Ⓢ Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- Ⓢ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Ⓢ Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- Ⓢ Clippard Instrument Laboratory, Inc., 1125 Bank St., Cincinnati 14, Ohio.
- Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
- Ⓢ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓢ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- Ⓢ ELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV. PG. 199.
- Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
- Ⓢ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓢ Essex Electronics, Berkeley Heights, N. J.

- FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Ⓢ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
- Ⓢ HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
- Ⓢ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago, Ill. ADV. PG. 276.
- Ⓢ Jeffers Electronics Co., DuBois, Pa.
- Ⓢ Johnson Co., E. F., Waseca, Minn.
- Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓢ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
- Ⓢ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Ⓢ Polytron Corp., 133 Martine Ave., White Plains, N. Y.
- Ⓢ Radex Corp., 2076 N. Elston Ave., Chicago 14, Ill.
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- Ⓢ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Ⓢ Standard Winding Corp., 44-62 Johns St., Newburgh, N. Y.
- Ⓢ Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.
- Ⓢ Super Electric Products Corp., 46 Oliver St., Newark, N. J.
- Ⓢ Teleradio Engineering Corp., 99 Wall St., New York 5, N. Y.
- Ⓢ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Ⓢ WEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.

COILS—Choke

- Ⓢ A. P. W. Co., 72 W. Main St., Rockaway, N. J.
- Ⓢ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Ⓢ Acme Wire Co., New Haven 14, Conn.
- Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
- Ⓢ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- Ⓢ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓢ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
- Ⓢ Altex Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓢ Audio Development Co., 2833 13th Ave. S., Minneapolis 7, Minn.
- Ⓢ Aurex Corp., 1117 N. Franklin St., Chicago, Ill.
- Ⓢ Automatic Mfg. Corp., 65 Gouverneur St., Newark, N. J.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ Best Mfg. Co., Inc., 1200 Grove St., Irvington 11, N. J.
- Bittermann Electric Co., Box 665, Canaan, Conn.
- Ⓢ BOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- Ⓢ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓢ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓢ Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- Ⓢ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Coil Winders Inc., 61 Beren St., Brooklyn 2, N. Y.
- Ⓢ COMMUNICATIONS ACCESSORIES CO., Box 345, 110th St., Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
- Ⓢ Continental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.
- Ⓢ Coto-Coil Co., Inc., 65 Pavilion Ave., Providence 5, R. I.
- Ⓢ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill.
- Ⓢ DANIO ELECTRIC CO., Main St., Winsted, Conn. ADV. PG. 273.
- Ⓢ Davis & Co., Dean W., Kentland, Ind.
- Ⓢ DECOURSEY ENGINEERING LAB., P. O. Box 235, Los Angeles 25, Calif. ADV. PG. 254.
- Ⓢ Dinion Coil Co., Inc., Caledonia, N. Y.
- Ⓢ Electron Mfg. Co., 4596 Elston Ave., Chicago, Ill.
- Ⓢ ELECTRICAL REACTANCE CORP., Elm St., Franklinville, N. Y. ADV. PG. 28, 29.
- Ⓢ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill.
- Electricoil Transformer Co., Westerly Rd., Ossining, N. Y.
- Electro Engineering Works, 6021 College Ave., Oakland 18, Calif.

- Ⓢ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- Ⓢ ELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV. PG. 199.
- Ⓢ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- Ⓢ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.
- Ⓢ Essex Electronics, Berkeley Heights, N. J.
- Ⓢ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓢ Gates Radio Co., Quincy, Ill.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Ⓢ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
- Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- Ⓢ HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
- Ⓢ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓢ INSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- Ⓢ Jeffers Electronics Co., DuBois, Pa.
- Ⓢ Johnson Co., E. F., Waseca, Minn.
- Ⓢ K-V Transformer Co., 4414 Park Ave., New York, N. Y.
- Ⓢ Lenkurt Electric Co., Inc., San Carlos, Calif.
- Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
- Ⓢ Lewis Spring & Mfg. Corp., 2656 W. North Ave., Chicago 47, Ill.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓢ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- Ⓢ Magnetic Windings Div., Essex Wire Corp., Freemanburg Ave. & Hobson Blvd., Easton, Pa.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Meissner Mfg. Div., Maguire Industries Inc., Mt. Carmel, Ill.
- Melco Products, Inc., 22 E. Hennepin Ave., Minneapolis 1, Minn.
- Ⓢ MEPCO, INC., 35-37 Abbett Ave., Morristown, N. J. ADV. PG. 196.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓢ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
- Ⓢ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Northern Communications Mfg. Corp., 210 E. 40th St., New York 16, N. Y.
- Ⓢ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles, Calif.
- Ⓢ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Quality Components, Inc., St. Marys, Pa.
- Ⓢ Radex Corp., 2076 N. Elston Ave., Chicago 14, Ill.
- Radionic Transformer Co., 411 S. Sangamon St., Chicago 7, Ill.
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
- Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
- Ⓢ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
- Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- Slepian Co., Arthur, Bridgeport, Conn.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Ⓢ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
- Ⓢ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
- Ⓢ Standard Winding Corp., 44-62 Johns St., Newburgh, N. Y.
- Ⓢ Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.
- Ⓢ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- Ⓢ Super Electric Products Corp., 46 Oliver St., Newark, N. J.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓂTele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa.
- ⓂTeleradio Engineering Corp., 99 Wall St., New York 5, N. Y.
- ⓂThermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.
- ⓂTriad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.
- ⓂUnion Electric Products Co., 24 Edison Pl., Newark 2, N. J.
- ⓂU. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- ⓂUNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
- Utah, Inc., E. Franklin St., Huntington, Ind.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓂWEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.
- ⓂWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

COILS—Electronic Heating Inductor

- ⓂAjax Electrothermic Corp., Ajax Park, Trenton 5, N. J.
- ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓂBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- Electronic Brazing Co., 146 Glenridge Ave., Montclair, N. J.
- ⓂElectronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂHigh Frequency Heating Co., 143 Glen Park Ave., Gary, Ind.
- ⓂHIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- ⓂJohnson Co., E. F., Waseca, Minn.
- ⓂK-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- ⓂPhelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- ⓂSherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
- ⓂStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓂStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- ⓂU. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- ⓂWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

COILS—Flyback

- ⓂAutomatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓂBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- ⓂClippard Instrument Laboratory, Inc., 1125 Bank St., Cincinnati 14, Ohio.
- D X Radio Products Co., Inc., 2304 Armitage Ave., Chicago, Ill.
- ⓂELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- ⓂEssex Electronics, Berkeley Heights, N. J.
- ⓂFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- ⓂMagnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- ⓂPhlco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ⓂRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- ⓂStandard Winding Co., 44-62 Johnes St., Newburgh, N. Y.
- ⓂStanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.
- ⓂStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- ⓂElectron Co., 4019 Prospect Ave., Cleveland 3, Ohio.
- ⓂTeleradio Engineering Corp., 99 Wall St., New York, N. Y.
- ⓂTriad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.
- ⓂU. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Utah, Inc., E. Franklin St., Huntington, Ind.
- ⓂWEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.
- ⓂWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

COILS—Magnet

- ⓂA. P. W. Co., 72 W. Main St., Rockaway, N. J.
- ⓂAcme Wire Co., New Haven 14, Conn.
- ⓂAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.

- ⓂALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
- ⓂAmerican Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill.
- Bittermann Electric Co., Box 665, Canaan, Conn.
- ⓂBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.
- ⓂConnecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- ⓂCoto-Coil Co., Inc., 65 Pavilion Ave., Providence 5, R. I.
- ⓂDANO ELECTRIC CO., Main St., Winsted, Conn. ADV. PG. 273.
- ⓂDavis & Co., Dean W., Kentland, Ind.
- ⓂElectran Mfg. Co., 4596 Elston Ave., Chicago, Ill.
- ⓂElectrical Coil Winding Co., 2733 Saunders St., Camden, N. J.
- ⓂElectrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill.
- Electriccoil Transformer Co., Westerly Rd., Ossining, N. Y.
- Electro Engineering Works, 6021 College Ave., Oakland 18, Calif.
- ⓂElectronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- ⓂELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- ⓂFERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂGramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- ⓂHercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
- ⓂHOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- Inductive Equipment Co., Gettysburg, Pa.
- ⓂKURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ⓂMagnetic Devices Corp., 103 S. Van Brunt St., Englewood, N. J.
- ⓂMagnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Melco Products, Inc., 22 E. Hennepen Ave., Minneapolis 1, Minn.
- ⓂMEPCO, INC., 35-37 Abnett Ave., Morristown, N. J. ADV. PG. 196.
- Northern Communications Mfg. Corp., 210 E. 40th St., New York 16, N. Y.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles, Calif.
- ⓂPhelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- ⓂRacon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Radionic Transformer Co., 411 S. Sangamon St., Chicago 7, Ill.
- ⓂRAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
- Reisner Mfg. Co., Hagerstown, Md.
- Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
- Slepijan Co., Arthur, Bridgeport, Conn.
- ⓂSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- ⓂSTANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- ⓂStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- ⓂSuper Electric Products Corp., 46 Oliver St., Newark, N. J.
- ⓂTeleradio Engineering Corp., 99 Wall St., New York, N. Y.
- ⓂUnion Electric Products Co., 24 Edison Pl., Newark 2, N. J.
- ⓂU. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Utah, Inc., E. Franklin St., Huntington, Ind.
- ⓂWeymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
- ⓂWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

COILS—Motor & Generator Field

- ⓂAcme Wire Co., New Haven 14, Conn.
- ⓂAir Associates, Inc., Terborbo, N. J.
- Bittermann Electric Co., Box 665, Canaan, Conn.
- ⓂCarron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- ⓂCOMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
- ⓂContinental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.
- ⓂCoto-Coil Co., Inc., 65 Pavilion Ave., Providence 5, R. I.
- ⓂDavis & Co., Dean W., Kentland, Ind.
- ⓂElectronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- ⓂELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.

- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂGramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- ⓂHOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- ⓂNational Electric Coil Co., Columbus 16, Ohio.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- ⓂPhelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- ⓂWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓂWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

COILS—Multiple Wound

- ⓂA. P. W. Co., 72 W. Main St., Rockaway, N. J.
- ⓂAcme Wire Co., New Haven 14, Conn.
- Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
- ⓂAcro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- ⓂALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
- ⓂAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ⓂAmerican Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill.
- ⓂAtlas Coil Winders, Inc., Stamford, Conn.
- ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bittermann Electric Co., Box 665, Canaan, Conn.
- ⓂBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- ⓂCAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- ⓂConnecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- ⓂCORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- ⓂCoto-Coil Co., Inc., 65 Pavilion Ave., Providence 5, R. I.
- ⓂCrest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill.
- ⓂDANO ELECTRIC CO., Main St., Winsted, Conn. ADV. PG. 273.
- ⓂDavis & Co., Dean W., Kentland, Ind.
- ⓂDinon Coil Co., Inc., Caledonia, N. Y.
- ⓂElectran Mfg. Co., 4596 Elston Ave., Chicago, Ill.
- ⓂElectrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill.
- ⓂElectronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
- ⓂELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV. PG. 199.
- ⓂELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.
- ⓂEssex Electronics, Berkeley Heights, N. J.
- ⓂFoster Transformer Co., Inc., 3820 Colerain Ave., Cincinnati 23, Ohio.
- ⓂFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ⓂGramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- ⓂHARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
- ⓂHIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- ⓂHOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago, Ill. ADV. PG. 276.
- ⓂI-T-E CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.
- Inductive Equipment Co., Gettysburg, Pa.
- ⓂINSTRUMENT RESISTORS CO., 1936 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- ⓂK-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- ⓂLenkurt Electric Co., Inc., San Carlos, Calif.
- ⓂMagnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Melco Products, Inc., 22 E. Hennepen Ave., Minneapolis 1, Minn.
- ⓂMEPCO, INC., 35-37 Abnett Ave., Morristown, N. J. ADV. PG. 196.
- ⓂMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓂMiller Co., B. F., Box 568, Trenton 4, N. J.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles, Calif.
- ⓂPhelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Radionic Transformer Co., 411 S. Sangamo St., Chicago 7, Ill.
- Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
- Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- ⓂS. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
 Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., So. Pasadena, Calif.
 Ⓜ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
 Ⓜ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
 Ⓜ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
 Ⓜ Super Electric Products Corp., 46 Oliver St., Newark, N. J.
 Ⓜ Transformer Engineers, 389 S. Arroyo Parkway, Pasadena, Calif.
 Ⓜ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.
 Ⓜ Union Electric Products Co., 24 Edison Pl., Newark 2, N. J.
 Ⓜ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
 Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
 Utah, Inc., E. Franklin St., Huntington, Ind.
 Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

COILS—Pickup

Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
 Ⓜ Super Electric Products Corp., 46 Oliver St., Newark, N. J.

COILS—Power & a-f Coil Windings

Ⓜ Acme Wire Co., New Haven 14, Conn.
 Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
 Ⓜ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
 Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
 Ⓜ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓜ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
 Ⓜ Best Mfg. Co., Inc., 1200 Grove St., Irvington 11, N. J.
 Bittermann Electric Co., Box 665, Canaan, Conn.
 Ⓜ BOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
 Ⓜ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
 Ⓜ Coto-Coil Co., Inc., 65 Pavilion Ave., Providence 5, R. I.
 Ⓜ Davis & Co., Dean W., Kentland, Ind.
 Ⓜ Dinion Coil Co., Caledonia, N. Y.
 Ⓜ Electran Mfg. Co., 4596 Elston Ave., Chicago, Ill.
 Ⓜ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, N. Y.
 Electronic Transformer Co., Westerly Rd., Ossining, N. Y.
 Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 West 25th St., New York, N. Y. ADV. PG. 116.
 Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.
 Ⓜ Etraco Mfg. Co., Inc., Woods Church Rd., Flemington, N. J.
 Ⓜ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
 Ⓜ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
 Ⓜ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill.
 Ⓜ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
 Inductive Equipment Co., Gettysburg, Pa.
 Ⓜ INSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
 Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 Ⓜ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 Northern Communications Mfg. Corp., 210 E. 40th St., New York 16, N. Y.
 Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
 Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
 Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.
 Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
 Ⓜ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
 Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
 Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
 Ⓜ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas
 Ⓜ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
 Ⓜ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.

Ⓜ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
 Ⓜ Super Electric Products Corp., 46 Oliver St., Newark, N. J.
 Tech-Master Products Co., 443-5 Broadway, New York 13, N. Y.
 Ⓜ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa.
 Ⓜ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 Ⓜ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.
 Ⓜ Union Electric Products Co., 24 Edison Pl., Newark 2, N. J.
 Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
 Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
 Ⓜ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

COILS—r-f & i-f Receiving or Transmitting

Aeromotive Equipment Corp., 1632-8 Central St., Kansas City 10, Mo.
 Ⓜ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 Associated Production Co., 162 N. Clinton St., Chicago 6, Ill.
 Ⓜ Atlas Coil Winders, Inc., Stamford, Conn.
 Ⓜ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓜ BOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
 Ⓜ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Ⓜ Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
 Ⓜ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 Ⓜ Caron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
 Ⓜ Clippard Instrument Laboratory, Inc., 1125 Bank St., Cincinnati 14, Ohio.
 Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
 Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
 Ⓜ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
 Ⓜ Davis & Co., Dean W., Kentland, Ind.
 Ⓜ Delco Radio Div., General Motors Corp., Kokomo, Ind.
 Dietz Design & Mfg. Co., 5810 Park Ave., Kansas City 4, Mo.
 Ⓜ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
 Ⓜ ELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV. PG. 199.
 Ⓜ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
 Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.
 Ⓜ Essex Electronics, Berkeley Heights, N. J.
 Ⓜ FUGLE-MILLER LABORATORIES, 398 Main St., Metuchen, N. J. ADV. PG. 164.
 Ⓜ Gates Radio Co., Quincy, Ill.
 Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
 Ⓜ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
 Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
 Ⓜ HILLBURGE ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
 Ⓜ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
 Inductive Equipment Co., Gettysburg, Pa.
 Ⓜ INSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
 Ⓜ Jeffers Electronics Inc., DuBois, Pa.
 Ⓜ Johnson Co., E. F., Waseca, Minn.
 Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
 Ⓜ Lewis Spring & Mfg. Co., 2656 W. North Ave., Chicago 47, Ill.
 Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 Meissner Mfg. Div., Maguire Industries, Inc., Mount Carmel, Ill.
 Ⓜ MEPCO, INC., 35-37 Abbett Ave., Morristown, N. J. ADV. PG. 196.
 Ⓜ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 Ⓜ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
 Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
 Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
 Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
 Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
 Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓜ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
 Ⓜ Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.

Ⓜ Quality Components, Inc., St. Marys, Pa.
 Ⓜ Radio Condenser Co., Camden, N. J.
 Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept. Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
 Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
 Ⓜ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
 Ⓜ Standard Winding Corp., 44-62 Johnes St., Newburgh, N. Y.
 Ⓜ Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.
 Ⓜ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
 Ⓜ Super Electric Products Corp., 46 Oliver St., Newark, N. J.
 Ⓜ Teleradio Engineering Corp., 99 Wall St., New York 5, N. Y.
 Ⓜ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
 Ⓜ WEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.
 Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

COILS—Relay & Solenoid

See Coils, Magnet

COILS—Speaker

Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
 Ⓜ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 Associated Production Co., 162 N. Clinton St., Chicago 6, Ill.
 Ⓜ Best Mfg. Co., Inc., 1200 Grove St., Irvington 11, N. J.
 Ⓜ DANO ELECTRIC CO., Main St., Winsted, Conn. ADV. PG. 273.
 Ⓜ Davis & Co., Dean W., Kentland, Ind.
 Ⓜ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
 Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
 Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.
 Ⓜ Gramer Company, The, 2734 N. Pulaski Rd., Chicago 39, Ill.
 Ⓜ HOULIHAN COMPANY, T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
 Inductive Equipment Co., Gettysburg, Pa.
 Ⓜ Magnetic Windings, Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa.
 Ⓜ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
 Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
 Ⓜ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
 Ⓜ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
 Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
 Ⓜ Stevens Products Inc., 6-88 Main St., East Orange, N. J.
 Ⓜ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
 Utah, Inc., E. Franklin St., Huntington, Ind.

COILS—Television Focusing

Ⓜ A.P.W. Co., 72 W. Main St., Rockaway, N. J.
 Associated Production Co., 162 N. Clinton St., Chicago 6, Ill.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓜ Best Mfg. Co., Inc., 1200 Grove St., Irvington 11, N. J.
 Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Ⓜ Coto-Coil Co., Inc., 65 Pavilion Ave., Providence 5, R. I.
 DX Radio Products Co., Inc., 2304 Armitage Ave., Chicago 47, Ill.
 Ⓜ Davis & Co., Dean W., Kentland, Ind.
 Ⓜ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.
 Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
 Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.
 Ⓜ Glaser-Steers Corp., 2 Main St., Belleville 9, N. J.
 Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
 Ⓜ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
 Ⓜ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
 Ⓜ I-T-E CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Inductive Equipment Co., Gettysburg, Pa.
 Ⓜ Magnetic Windings Div., Essex Wire Corp., Freemans-
 burg Ave. & Hobson Blvd., Easton, Pa.
 Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34,
 Ill.
 Peerless Electrical Products Co., 6920 McKinley Ave.,
 Los Angeles 1, Calif.
 Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St.,
 New York 5, N. Y.
 Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
 Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
 Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Colling-
 dale, Pa. ADV. PG. 221.
 Slepian Co., Arthur, Bridgeport, Conn.
 Ⓜ STANDARD TRANSFORMER CORP., Elston, Kedzie &
 Addison, Chicago 18, Ill. ADV. PG. 62.
 Ⓜ Standard Winding Co., 44-62 Johnes St., Newburgh,
 N. Y.
 Ⓜ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave.,
 Los Angeles 27, Calif.
 Ⓜ Suoer Electric Products Corp., 46 Oliver St., New-
 ark, N. J.
 Tech-Master Products Co., 443-5 Broadway, New York
 13, N. Y.
 Ⓜ Electron Co., The, 4019 Prospect Ave., Cleveland 3,
 Ohio.
 Ⓜ Teleradio Engineering Corp., 99 Wall St., New York 5,
 N. Y.
 Ⓜ Television Laboratories, Inc., 542 N. Parkside Ave.,
 Chicago 44, Ill.
 Ⓜ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd.,
 Los Angeles 64, Calif.
 Utah, Inc., E. Franklin St., Huntington, Ind.
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 Ⓜ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St.,
 Waterbury 91, Conn.

COILS—Toroidal

Ⓜ A.P.W. Co., 72 W. Main St., Rockaway, N. J.
 Associated Production Co., 162 N. Clinton St., Chicago 6,
 Ill.
 Ⓜ Atlas Coil Winders, Inc., Stamford, Conn.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper
 Darby, Pa. ADV. PG. 169.
 Bittermann Electric Co., Box 665, Canaan, Conn.
 Ⓜ BOND ELECTRONICS CORP., 88 Franklin Place, Sum-
 mit, N. J. ADV. PG. 250.
 Ⓜ Burnell & Co., 45 Warburton Ave., Yonkers 2, N. Y.
 ADV. PG. 59.
 Ⓜ COMMUNICATION ACCESSORIES CO., Box 345, 110th
 St. & Hillcrest Rd., Hickman Hills, Missouri. ADV.
 PG. 178.
 Ⓜ Coto-Coil Co., Inc., 65 Pavilion Ave., Providence 5,
 R. I.
 DX Radio Products Co., Inc., 2304 Armitage Ave.,
 Chicago 47, Ill.
 Ⓜ DECOURSEY ENGINEERING LAB., P. O. Box 235, Los
 Angeles 25, Calif. ADV. PG. 254.
 Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th
 St., New York, N. Y. ADV. PG. 116.
 Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I.,
 N. Y.
 Ⓜ Foster Transformer Co., Inc., 3820 Colerain Ave.,
 Cincinnati 23, Ohio.
 Ⓜ FREE TRANSFORMER CO., INC., 1736 Weirfield St.,
 Brooklyn 27, N. Y. ADV. PG. 143.
 Gaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
 Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schene-
 tadady 5, N. Y. ADV. PG. 5 to 18.
 Ⓜ Hycor Co., 11423 Vanowen St., North Hollywood, Calif.
 Inductive Equipment Co., Gettysburg, Pa.
 Ⓜ Lenkurt Electric Co., Inc., San Carlos, Calif.
 Ⓜ Lvnch Co., F. W., 151 2nd St., San Francisco, Calif.
 Ⓜ Magnetic Instrument Co., 82 W. Main St., West
 Orange, N. J.
 Ⓜ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St.,
 New York 5, N. Y.
 Ⓜ Railway Communications, Inc., P. O. Box 1783, Lin-
 coln, Neb.
 Ⓜ Southwestern Industrial Electronic Co., 2831 Post Oak
 Rd., Houston 19, Texas.
 Ⓜ Standard Electrical Products Co., 402 E. 1st St.,
 Dayton, Ohio.
 Ⓜ Toroncoil Co., 53-87 Northland Ave., St. Louis 12, Mo.
 Ⓜ Transformer Engineers, 389 S. Arroyo Parkway, Pasa-
 dena, Calif.
 Ⓜ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd.,
 Los Angeles 64, Calif.
 Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New
 York 13, N. Y. ADV. PG. Inside Front Cover.
 Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868,
 Pittsburgh 30, Pa. ADV. PG. 77.

COILS—Transformer Coils & Windings

Ⓜ A.P.W. Co., 72 W. Main St., Rockaway, N. J.
 Ⓜ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y.
 ADV. PG. 210.
 Ⓜ Acme Wire Co., New Haven 14, Conn.
 Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
 Ⓜ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long
 Island City, N. Y.
 Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New
 York 21, N. Y. ADV. PG. 98, 99.

Ⓜ Altec Lansing Corp., 161 Avenue of the Americas,
 New York 13, N. Y.
 Associated Production Co., 162 N. Clinton St., Chicago 6,
 Ill.
 Ⓜ Atlas Coil Winders, Inc., Stamford, Conn.
 Ⓜ Bendix Radio Communications Div., Bendix Aviation
 Corp., Baltimore 4, Md.
 Ⓜ Best Mfg. Co., Inc., 1200 Grove St., Irvington 11, N. J.
 Bittermann Electric Co., Box 665, Canaan, Conn.
 Ⓜ BOND ELECTRONICS CORP., 88 Franklin Place, Sum-
 mit, N. J. ADV. PG. 250.
 Ⓜ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y.
 ADV. PG. 59.
 Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Ⓜ Coto-Coil Co., Inc., 65 Pavilion Ave., Providence 5,
 R. I.
 Ⓜ Crest Transformer Corp., 1834-36 W. North Ave.,
 Chicago 22, Ill.
 Ⓜ DANO ELECTRIC CO., Main St., Winstead, Conn. ADV.
 PG. 273.
 Ⓜ Davis & Co., Dean W., Kentland, Ind.
 Ⓜ Delco Radio Div., General Motors Corp., Kokomo, Ind.
 Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
 Ⓜ Eastern Specialty Co., Philadelphia 40, Pa.
 Ⓜ Eisler Engineering Co., Inc., 740 S. 13th St., New-
 ark 3, N. J.
 Ⓜ Electron Mfg. Co., 4596 Elston Ave., Chicago 30, Ill.
 Ⓜ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chi-
 cago 39, Ill.
 Electriccoil Transformer Co., Westery Rd., Ossining, N. Y.
 Ⓜ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St.,
 Springfield, Mass.
 Ⓜ ELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV.
 PG. 199.
 Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th
 St., New York, N. Y. ADV. PG. 116.
 Empire Coil Co., Inc., 238 Huguenot St., New Rochelle,
 N. Y.
 Ⓜ Essex Electronics, Berkeley Heights, N. J.
 Ⓜ Etraco Mfg. Co., Inc., Woods Church Rd., Fleming-
 ton, N. J.
 Ⓜ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza,
 New York 20, N. Y. ADV. PG. 81.
 Ⓜ FREE TRANSFORMER CO., INC., 1736 Weirfield St.,
 Brooklyn 27, N. Y. ADV. PG. 143.
 Gaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
 Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schene-
 tadady 5, N. Y. ADV. PG. 5 to 18.
 Ⓜ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39,
 Ill.
 Ⓜ Hercules Electric & Mfg. Co., Inc., 2500 Atlantic
 Ave., Brooklyn 7, N. Y.
 Ⓜ HIGHLAND ENGINEERING CO., 32 Holman Blvd.,
 Hicksville, N. Y. ADV. PG. 194.
 Ⓜ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave.,
 Chicago, Ill. ADV. PG. 276.
 Inductive Equipment Co., Gettysburg, Pa.
 Ⓜ K-V Transformer Corp., 4414 Park Ave., New York
 57, N. Y.
 Ⓜ Lenkurt Electric Co., Inc., San Carlos, Calif.
 Leonard Electric Products Co., Inc., 1562 61st St.,
 Brooklyn 19, N. Y.
 Ⓜ Magnetic Instrument Co., 82 W. Main St., West
 Orange, N. J.
 Ⓜ Magnetic Windings Div., Essex Wire Corp., Freemans-
 burg Ave. & Hobson Blvd., Easton, Pa.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel,
 Ill.
 Melco Products, Inc., 22 E. Hennepin Ave., Minne-
 apolis 1, Minn.
 Ⓜ Miller Co., B. F., P. O. Box 568, Trenton 4, N. J.
 Northern Communications Mfg. Corp., 210 E. 40th St.,
 New York 16, N. Y.
 Ⓜ Nothelfer Winding Labs., 9 Albemarle Ave., Tren-
 ton 3, N. J.
 Peerless Electrical Products Co., 6920 McKinley Ave.,
 Los Angeles 1, Calif.
 Ⓜ Phelps Dodge Copper Products Corp., 40 Wall St., New
 York 5, N. Y.
 Ⓜ Progressive Welder Co., 3050 E. Outer Drive, Detroit,
 Mich.
 Radionic Transformer Co., 411 S. Sangamon St., Chi-
 cago 7, Ill.
 Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham
 54, Mass. ADV. PG. 257.
 Red Arrow Electric Corp., 100 Coit St., Irvington 11,
 N. J.
 Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
 Ⓜ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
 Scintilla Magneto Div. of Bendix Aviation Corp., Sid-
 ney, N. Y.
 Slepian Co., Arthur, Bridgeport, Conn.
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S.
 Pasadena, Calif.
 Ⓜ Southwestern Industrial Electronic Co., 2831 Post Oak
 Rd., Houston 19, Texas.
 Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp.,
 Great Neck, N. Y. ADV. PG. 85, 86.
 Ⓜ Standard Electrical Products Co., 402 E. 1st St., Day-
 ton, Ohio.
 Ⓜ STANDARD TRANSFORMER CORP., Elston, Kedzie &
 Addison, Chicago 18, Ill. ADV. PG. 62.
 Ⓜ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave.,
 Los Angeles 27, Calif.
 Ⓜ Super Electric Products Corp., 46 Oliver St., New-
 ark, N. J.
 Tech-Master Products Co., 443-5 Broadway, New York
 13, N. Y.

Ⓜ Teleradio Engineering Corp., 99 Wall St., New York 5,
 N. Y.
 Ⓜ Television Laboratories, Inc., 542 N. Parkside Ave.,
 Chicago 44, Ill.
 Ⓜ Ther Electric & Machine Works, 15 S. Jefferson St.,
 Chicago, Ill.
 Ⓜ Thermador Electric Mfg. Co., 5119 District Blvd.,
 Los Angeles 22, Calif.
 Ⓜ Thordarson Electric Mfg. Div., Maguire Industries,
 Inc., 500 W. Huron St., Chicago 10, Ill.
 Ⓜ Transformer Engineers, 389 S. Arroyo Parkway, Pasa-
 dena, Calif.
 Ⓜ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los
 Angeles 64, Calif.
 Ⓜ Union Electric Products Co., 24 Edison Pl., Newark
 2, N. J.
 Ⓜ U. S. ELECTRONICS CORP., 276 Warren St., Lynd-
 hurst, N. J. ADV. PG. 266.
 Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New
 York 13, N. Y. ADV. PG. Inside Front Cover.
 Utah, Inc., E. Franklin St., Huntington, Ind.
 Ⓜ Weymouth Instrument Co., 1440 Commercial St.,
 East Weymouth 89, Mass.
 Ⓜ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St.,
 Waterbury 91, Conn.

COILS—Width Control

Ⓜ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th
 St., Union City, N. J. ADV. PG. 138.
 Ⓜ BOND ELECTRONICS CORP., 88 Franklin Place, Sum-
 mit, N. J. ADV. PG. 250.
 Ⓜ Caddell-Burns Mfg. Co., 480 Broome St., New York
 13, N. Y.
 Ⓜ Clippard Instrument Laboratory, Inc., 1125 Bank St.,
 Cincinnati 14, Ohio.
 Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Ⓜ Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St.,
 Springfield, Mass.
 Ⓜ ELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV.
 PG. 199.
 Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W.
 25th St., New York, N. Y. ADV. PG. 116.
 Ⓜ Essex Electronics, Berkeley Heights, N. J.
 Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
 Ⓜ HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau
 Ave., Brooklyn 22, N. Y. ADV. PG. 46.
 Ⓜ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave.,
 Chicago 25, Ill. ADV. PG. 276.
 Ⓜ I-T-E CIRCUIT BREAKER CO., 19th & Hamilton St.,
 Philadelphia 30, Pa. ADV. PG. 40, 41.
 Leonard Electric Products Co., Inc., 1562 61st St.,
 Brooklyn, N. Y.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel,
 Ill.
 Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
 Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., Tube
 Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside
 Back and Back Covers.
 Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Ⓜ Standard Coil Products Co., 2329 N. Pulaski Rd., Chi-
 cago 39, Ill. ADV. PG. 233.
 Ⓜ Standard Winding Co., 44-62 Johnes St., Newburgh,
 N. Y.
 Ⓜ Stanwyck Winding Co., 137 Walsh Ave., Newburg,
 N. Y.
 Ⓜ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave.,
 Los Angeles 27, Calif.
 Ⓜ Teleradio Engineering Corp., 99 Wall St., New
 York, N. Y.
 Ⓜ Electron Co., 4019 Prospect Ave., Cleveland 3, Ohio.
 Ⓜ U. S. ELECTRONICS CORP., 276 Warren St., Lynd-
 hurst, N. J. ADV. PG. 266.
 Utah, Inc., E. Franklin St., Huntington, Ind.

COLORIMETERS—Photoelectric

American Instrument Co., 8030 Georgia Ave., Silver
 Spring, Md.
 Ⓜ Associated Research, Inc., 3758 W. Belmont, Chi-
 cago 18, Ill.
 Ⓜ Brociner-Mass Instruments, Inc., 1546 Second Ave.,
 New York 28, N. Y.
 Ⓜ Coleman Instruments, Inc., 318 Madison St., May-
 wood, Ill.
 Ⓜ Farrand Optical Co., Inc., Bronx Blvd. at 238th St.,
 New York 66, N. Y.
 Ⓜ Fisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.
 Ⓜ Gardner Lab., Inc., Henry A., 4723 Elm St., Bethesda
 14, Md.
 Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schene-
 tadady 5, N. Y. ADV. PG. 5 to 18.
 Harshaw Scientific Div. of The Harshaw Chemical Co.,
 1945 E. 97th St., Cleveland 6, Ohio.
 Ⓜ INSTRUMENT DEVELOPMENT LABORATORIES, INC.,
 Needham Heights, Mass. ADV. PG. 243.
 Ⓜ Photron Instrument Co., 6516 Detroit Ave., Clevel-
 and 2, Ohio.
 Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
 Ⓜ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6,
 N. Y.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

COLUMBIUM

See Metals

COMMUNICATION SYSTEMS

1. Aircraft
 2. Airport Traffic Control
 3. Carrier Current
 4. Facsimile
 5. Induction
 6. Marine Radio-Telephone
 7. Microwave
 8. Portable Installation
 9. Radioteletype
 10. Railroad
 11. Vehicular
- Ⓢ Acme Electronics Div. of NEA Service Inc., West Third & Lakeside, Cleveland 13, Ohio. 4.
 - Aermotive Equipment Corp., 1632-8 Central St., Kansas City 10, Mo. 1.
 - Ⓢ Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla. 1.
 - Ⓢ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y. 1.
 - Ⓢ Air Associates, Inc., Terboro, N. J. 1.
 - Ⓢ AIRCRAFT RADIO CORP., Boonton, N. J. 1. ADV. PG. 198, 199.
 - Ⓢ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. 4. ADV. PG. 235.
 - American Communications Corp., 306 Broadway, New York 7, N. Y. 3.
 - American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif. 1-2-6-7-8-10-11.
 - Ⓢ Applied Electronics Co., 1246 Folsom St., San Francisco 3, Calif. 6.
 - Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y. 2.
 - Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. 4-9-11. ADV. PG. 169.
 - Ⓢ Bassett Inc., Rex, 307-11 N.W. 1st Ave., Ft. Lauderdale, Fla. 1-2-6.
 - Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. 1-2-7-9-10-11.
 - Bunnell & Co., J. H., 215 Fulton St., New York, N. Y. 1-2-3-4-6-7-8-9-10.
 - Ⓢ Capehart-Farnsworth Corp., Fort Wayne, Indiana. 10.
 - Ⓢ Carnine & Bitter, 2332 Ontario Rd., N.W., Washington 9, D. C. 7.
 - Ⓢ Collins Radio Co., Cedar Rapids, Iowa. 1-2-6-8-11.
 - Ⓢ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla. 1-2-6-8-9-10-11.
 - Ⓢ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada. 2.
 - Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill. 8-11.
 - Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. 7-11. ADV. PG. 139.
 - Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. 2-3-6. ADV. PG. 238.
 - Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y. 2-6-8-9.
 - Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y. 4.
 - Ⓢ Fairchild Recording Equipment Corp., 154 St. & 7th Ave., Whitestone, N. Y. 1-4-8.
 - Ⓢ Federal Telecommunication Labs., Inc., 500 Washington Ave., Nutley, N. J. 7.
 - Ⓢ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. 2-3-7-11. ADV. PG. 23 to 25.
 - Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill. 8.
 - Ⓢ Finch Telecommunications, Inc., Passaic, N. J. 4.
 - Ⓢ Gates Radio Co., Quincy, Ill. 2-6.
 - Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. 3. ADV. PG. 5 to 18.
 - Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. 1-3-6-7-8-11. ADV. PG. 5 to 18.
 - Ⓢ Godfrey Mfg. Co., 171 S. 2nd St., Milwaukee 4, Wis. 8.
 - Grady Instrument Co., 689 Belmont St., Belmont 78, Mass. 6-11.
 - Ⓢ Gray Radio Co., 501 Forest Hill Blvd., W. Palm Beach, Fla. 6.
 - Hart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y. 2-8-10.
 - Ⓢ HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. 11. ADV. PG. 104.
 - Ⓢ Hoqan Laboratories, Inc., 155 Perry St., New York 14, N. Y. 4.
 - Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y. 6.
 - Ⓢ Intervox Corp., 2701 California Ave., Seattle 6, Wash. 6.
 - Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill. 1.
 - Ⓢ Kaar Engineering Co., 2995 Middlefield Road, Palo Alto, Calif. 6-11.
 - Ⓢ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill. 1-3.
 - Ⓢ Lenkurt Electric Co., Inc., San Carlos, Calif. 3.
 - Ⓢ Link Radio Corp., 125 W. 17th St., New York, N. Y. 3-11.
 - Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y. 1.

- Ⓢ Lynch Co., F. W., 151 2nd St., San Francisco, Calif. 3.
- Ⓢ McElroy Mfg. Corp., Littleton, Mass. 4-9.
- Ⓢ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas. 1.
- Ⓢ MUIRHEAD & CO., LTD., Beckman-Kent-England 4. ADV. PG. 71.
- Northeastern Engineering Inc., Manchester, N. H. 2.
- Ⓢ Northern Radio Co., 314 Bell St., Seattle 1, Wash. 6.
- Ⓢ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. 1-3-4-5-6-9-10-11. ADV. PG. 132, 133.
- Ⓢ Philco Corp., Tioga & C Streets, Philadelphia 34, Pa. 4-7-10-11.
- Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y. 8.
- Ⓢ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y. 7.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y. 1-2-4-7-9.
- Ⓢ Racon Electric Co., 52 E. 19th St., New York 3, N. Y. 1-6-10.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Camden, N. J., General Offices. 1-7-11. ADV. PG. 73 to 75. Inside Back and Back Covers.
- Ⓢ RADIO FREQUENCY LABS., INC., Boonton 2, N. J. 9. ADV. PG. 172.
- Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore. 8-11.
- Ⓢ Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y. 6.
- Ⓢ Railway Communications, Inc., P. O. Box 1783, Lincoln, Nebr. 3.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. 6-7-9-10-11. ADV. PG. 257.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn. 1.
- Ⓢ Rosen Engineering Products, Inc., Raymond, 32nd & Walnut Sts., Philadelphia 4, Pa. 7-8-9.
- Ⓢ Schuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C. 9.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y. 1-2-3-6-7-8-11.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y. 1-2-3-5-8-11.
- Ⓢ Speak-0-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y. 5.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. 1-2-7. ADV. PG. 85, 86.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England. 1-2-3-6-7-9-10.
- Ⓢ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass. 6.
- Ⓢ Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y. 9.
- Telephonics Corp., Park Ave., Huntington, N. Y. 1.
- Ⓢ TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. 4. ADV. PG. 50.
- Ⓢ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y. 1-2-8-11.
- Ⓢ U. S. Instrument Corp., 409 Broad St., Summit, N. J. 8-10.
- Ⓢ Webster Electric Co., 1900 Clark St., Racine, Wis. 10.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. 2-3-6-7-9-10-11. ADV. PG. 77.
- Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass. 7.
- Ⓢ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo. 1-2.

COMPARATORS—Automatic Resistance

- Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓢ Chippard Instrument Laboratory, Inc., 1125 Bank St., Cincinnati 14, Ohio.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓢ Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.

COMPARATORS, CIRCUIT LINEARITY

- Ⓢ Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.

COMPARATORS—Crystal

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Monitor Products Co., 815 Fremont St., So. Pasadena, Calif.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Scherr Co., Inc., George, 200 Lafayette St., New York 12, N. Y.

COMPARATORS, SURFACE

See Analyzers, Surface

COMPASSES—Electronic Gyro

- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

COMPUTERS, ELECTRONIC

See Machines

CONDENSERS

See Capacitors

CONES, METAL TV

- Ⓢ DeLaval Separator Co., 165 Broadway, New York 6, N. Y.
- Ⓢ I-T-E CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.
- Ⓢ Milwaukee Metal Spinning Co., 4128 W. State St., Milwaukee 8, Wis.

CONES—Speaker

- Ⓢ Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- Ⓢ Hawley Products Co., St. Charles, Ill.
- Kling Metal Spinning Co., 174 Centre St., New York 13, N. Y.
- Ⓢ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Ⓢ Stevens Products Inc., 86-88 Main St., East Orange, N. J.

CONNECTORS—Cable Connectors & Couplings

- Ⓢ AIRTRON INC., 101 E. Elizabeth Ave., Linden, N. J. ADV. PG. 46.
- Ⓢ ALDEN PRODUCTS CO., 117 North Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓢ Aluminum Co. of America, Gulf Bldg., Pittsburgh 72, Pa.
- Ⓢ Ark-Les Switch Corp., 55 Water St., Watertown 22, Mass.
- Ⓢ Astatic Corp., The, Conneaut, Ohio.
- Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓢ AVIOMETER DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓢ BREEZE CORPNS., INC., 41 S. Sixth St., Newark 7, N. J. ADV. PG. 93.
- Ⓢ BUCHANAN ELECTRICAL PRODUCTS CORP., 1290 Central Ave., Hillside, N. J. ADV. PG. 214.
- Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓢ Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
- Ⓢ Burndy Engineering Co., Inc., 107 Bruckner Blvd., New York 54, N. Y.
- Ⓢ Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
- Ⓢ CINCH MFG. CORP., 1026 S. Homan Ave., Chicago, 24, Ill. ADV. PG. 154.
- Cole-Hershe Co., 20 Old Colony Ave., Boston 27, Mass.
- Ⓢ Commercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
- Ⓢ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓢ Dante Electric Mfg. Co., Bantam, Conn.
- Ⓢ DIAL LIGHT CO. OF AMERICA, 900 Broadway, New York 3, N. Y. ADV. PG. 50.
- Ⓢ Diamond Mfg. Co., Wakefield, Mass.
- Ⓢ Elco Mfg. Co. Div. of Electro-Connector Corp., 110 W. Oxford St., Phila. 22, Pa.
- Ⓢ Frankel Connector Co., 177 Hudson St., New York, N. Y.
- Ⓢ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓢ General R-F Fittings Co., 126 Dartmouth St., Boston 16, Mass.
- Ⓢ GENERAL ELECTRIC CO., Construction Materials Dept. 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ Hallfett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓢ Ilisco Copper Tube & Products Inc., Mariemont Ave., Mariemont, Cincinnati 27, Ohio.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ Johnson Co., E. F., Waseca, Minn.
- Ⓢ JONES, DIV., HOWARD B., Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Ⓢ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
- Ⓢ Mines Engineering Division, Joy Mfg. Co., 4235 Clayton Ave., St. Louis, Mo.
- Ⓢ Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
- National Electrical Machine Shops, Inc., 919 Jesup-Blair Drive, Silver Spring, Md.

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Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Penn-Union Electric Corp., 315 State Street, Erie, Pa.
 Ⓢ Product Development Co., Inc., Arlington, N. J.
 Ⓢ Rattan Mfg. Co., The, New Haven 7, Conn.
 Ⓢ Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
 Ⓢ Roylyn, Inc., 718 W. Wilson Ave., Glendale 3, Calif.
 Ⓢ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
 Ⓢ Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
 Selector Industries, Inc., 401 East 138th St., New York 54, N. Y.
 Ⓢ Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
 Ⓢ Thomas & Betts Co., Inc., 36 Butler St., Elizabeth 1, N. J.
 Ⓢ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
 Ⓢ Wade Electric Products Co., 211 Jacob St., Sturgis, Mich.
 Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
 Ⓢ Whitaker Cable Corp., Kansas City 16, Mo.
 Ⓢ WINCHESTER ELECTRONICS, INC., Glenbrook, Conn. ADV. PG. 203.

CONNECTORS—Ceramic Cable

Ⓢ AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
 Ⓢ CENTRALAB, Div. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
 Ⓢ Diamond Mfg. Co., Wakefield, Mass.
 Ⓢ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
 Ⓢ Johnson Co., E. F., Waseca, Minn.
 Ⓢ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.

CONNECTORS—Coaxial Cable

Ⓢ AIRTRON, INC., 101 E. Elizabeth Ave., Linden, N. J. ADV. PG. 46.
 Ⓢ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 Ⓢ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
 Ⓢ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
 Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓢ Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
 Ⓢ Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
 Ⓢ Burndy Engineering Co., Inc., 107 Bruckner Blvd., New York 54, N. Y.
 Ⓢ Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
 Ⓢ Diamond Mfg. Co., Wakefield, Mass.
 Ⓢ General R-F Fittings Co., 126 Dartmouth St., Boston 16, Mass.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ Jerrold Electronics Corp., 121 N. Broad St., Philadelphia, Pa.
 Ⓢ JONES ELECTRONICS CO., M. C., Bristol, Conn. ADV. PG. 138.
 Ⓢ JONES DIV., HOWARD B., Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
 Ⓢ Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
 Ⓢ Mines Equipment Division, Joy Mfg. Co., 4235 Clayton Ave., St. Louis, Mo.
 Ⓢ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 National Electrical Machine Shops, Inc., 919 Jesup-Blair Drive, Silver Spring, Md.
 Ⓢ Product Development Co., Inc., Arlington, N. J.
 Ⓢ Roylyn, Inc., 718 W. Wilson Ave., Glendale 3, Calif.
 Ⓢ Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
 Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
 Ⓢ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ Thomas & Betts Co., Inc., 36 Butler St., Elizabeth 1, N. J.
 Ⓢ Transradio Ltd., 138A Cromwell Rd., London S. W. 7, England.
 Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
 Ⓢ Workshop Associates, Inc., The, 66 Needham St., Newton Highlands 61, Mass.

CONNECTORS—Stand-off & Cone

Ⓢ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Ⓢ Electrical Industries, Inc., 44 Summer Ave., Newark 4, N. J.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

Ⓢ Johnson Co., E. F., Waseca, Minn.
 Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
 Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 Ⓢ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
 Ⓢ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.

CONTACTORS

Ⓢ Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
 Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
 Ⓢ Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.
 Ⓢ Clark Controller Co., The, 1146 E. 152nd St., Cleveland 10, Ohio.
 Ⓢ Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 Ⓢ Johnson Co., E. F., Waseca, Minn.
 Ⓢ McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
 Ⓢ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
 Ⓢ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
 Ⓢ R. B. M. Div., Essex Wire Corp., Logansport, Ind.
 Ⓢ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52.
 Weltron Co., 19500 West Eight Mile Rd., Detroit 19, Mich.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30 Pa. ADV. PG. 77.
 Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

CONTACTS, ELECTRICAL

Ⓢ BRAININ CO., C. S., 320 Washington St., Mt. Vernon, N. Y. ADV. PG. 246.
 Ⓢ CENTRALAB DIV. OF GLOBE-UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
 Ⓢ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Ⓢ Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.
 Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles, 15, Calif.
 Ⓢ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
 Ⓢ Gibson Electric Co., 8361 Frankstown Ave., Pittsburgh 21, Pa.
 Ⓢ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
 Ⓢ KEYSTONE CARBON CO., INC., St. Marys, Pa. ADV. PG. 42.
 Ⓢ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
 Ⓢ MALCO TOOL & MFG. CO., 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
 Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Milford Rivet & Machine Co., Milford, Conn.
 Ⓢ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
 Ⓢ St. Mary's Carbon Co., State Rd., St. Marys, Pa.
 Ⓢ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

CONTAINERS—One Piece Drawn

Ⓢ ELECTRO-SEAL CORP., 946 Lee St., DesPlaines, Ill. ADV. PG. 90.

CONTROLS—Alarm System

Ⓢ Adams & Westlake Co., Michigan St., Elkhart, Ind.
 Ⓢ Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
 American Communications Corp., 306 Broadway, New York 7, N. Y.
 Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 Ⓢ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
 Ⓢ EDISON, INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129.
 Ⓢ EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ Fischer & Porter Co., Hatboro, Pa.
 Ⓢ Gates Radio Co., Quincy, Ill.
 Ⓢ Hastings Instrument Co., Box 1275, Hampton, Va.
 Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
 Ⓢ Industrial Electronics Co., Inc., Hanover, Mass.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
 Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa.
 Ⓢ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 Mercoird Corp., 4201 Belmont Ave., Chicago 41, Ill.
 Ⓢ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.

Ⓢ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 Ⓢ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
 Ⓢ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ Vapor Recovery Systems Co., 2820 N. Alameda, Compton, Calif.
 Ⓢ Worner Electronic Devices, Rankin, Ill.
 Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

CONTROLS—Auto Radio Remote

Ⓢ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
 Ⓢ Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
 Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 Ⓢ Lear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
 Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓢ White Dental Mfg. Co., S. S., Industrial Div., 10 E. 40th St., New York, N. Y.

CONTROLS—Automatic Tuning

Ⓢ Air Associates, Inc., Teterboro, N. J.
 Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Ⓢ Collins Radio Co., Cedar Rapids, Iowa.
 Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
 Ⓢ Lear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

CONTROLS—Chemical

Ⓢ Fischer & Porter Co., Hatboro, Pa.
 Ⓢ General Controls Co., Glendale, Calif.
 GENERAL ELECTRIC CO., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
 Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
 Ⓢ Niagara Electron Laboratories, Andover, N. Y.
 Ⓢ Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
 Ⓢ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.

CONTROLS—Counting & Sorting

Ⓢ Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
 Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
 Ⓢ ARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
 Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
 Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 Ⓢ Berkeley Scientific Co., Richmond, Calif.
 Ⓢ Dietz Co., S. J., Box 65, W. Englewood, N. J.
 Ⓢ Eagle Signal Corp., Moline, Illinois.
 Ⓢ Electrodyne Company, 32 Oliver St., Boston, Mass.
 Ⓢ Electronic Associates Inc., Long Branch, N. J.
 Ⓢ Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
 Ⓢ EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ Fielden Electronics, Inc., 1171 New York Ave., Huntington Station, N. Y.
 Ⓢ Gorrell & Gorrell, Haworth, N. J.
 Hetherington Inc., Sharon Hill, Pa.
 Ⓢ Industrial Electronics Co., Inc., Hanover, Mass.
 Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
 Magnetic Analysis Corp., 42-44 Twelfth St., Long Island City, N. Y.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Photobell Company, 116 Nassau St., New York 7, N. Y.
 Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
 Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
 Ⓢ Veeder Root Inc., Hartford 2, Conn.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Ⓢ Worner Electronic Devices, Rankin, Ill.
 Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

CONTROLS—Density

See Controls, Specific Gravity

CONTROLS—Dimension

- Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
- ⓈCoral Designs, Box 248 Forest Hills, N. Y.
- ⓈElectronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- ⓈFielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- ⓈRobinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.

CONTROLS—Door

- ⓈBarber-Colman Co., Rockford, Ill.
- ⓈDeitz Co., S. J., Box 65, W. Englewood, N. J.
- ⓈElectronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- ⓈEL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ⓈFielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
- ⓈO'Connor & Co., John T., West Orange, N. J.
- ⓈPhotobell Company, 116 Nassau St., New York 7, N. Y.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈWorner Electronic Devices, Rankin, Ill.

CONTROLS—Electronic Motor

- ⓈAcme Electronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈClark Controller Co., The, 1146 E. 152nd St., Cleveland 10, Ohio.
- ⓈCutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Electron Equipment Corp., 917 Meridian Ave., South Pasadena, Calif.
- ⓈFederal Electric Products Co., 50 Paris St., Newark, N. J.
- ⓈFLADER, INC., Frederic, North Tonawanda, N. Y. ADV. PG. 240.
- ⓈGale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- ⓈGaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈLyman Electronic Corp., 12 Cass St., Springfield, Mass.
- ⓈMagnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- ⓈMosher Electronic Controls, 130 W. 42nd St., New York, N. Y.
- ⓈO'Connor & Co., John T., West Orange, N. J.
- ⓈRAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- ⓈRobinette Co., W. C., 802 Fair Oaks Ave., S. Pasadena, Calif.
- ⓈSERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson, N. J. ADV. PG. 187.
- ⓈServomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈThe Electric & Machine Works, 15 S. Jefferson St., Chicago, Ill.
- VECTRON INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Weltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.
- ⓈWESTINGHOUSE ELEC. CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Elevator Leveling

- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.

CONTROLS—Film Thickness

- ⓈFielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.

CONTROLS—Fluid Conductivity

- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈIndustrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- ⓈLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Lumenite Electric Co., 407 Dearborn St., Chicago, Ill.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓈPhotoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.

CONTROLS—Fluid Flow

- ⓈAir Associates, Inc., Teterboro, N. J.
- ⓈAskania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- ⓈBailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓈCaltron Co., 1406 So. Hobart Blvd., Los Angeles 6, Calif.
- ⓈFielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- ⓈFischer & Porter Co., Hatboro, Pa.
- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈGeneral Controls Co., Glendale 1, Calif.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- ⓈMicro Metallic Corp., 193 Bradford St., Brooklyn, N. Y.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓈSERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Food Processing

- ⓈAskania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- ⓈBurling Instrument Co., 253 Springfield Ave., Newark 3, N. J.
- ⓈFischer & Porter Co., Hatboro, Pa.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓈThompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈWESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

CONTROLS—Frequency

- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓈBurlington Instrument Co., Burlington, Iowa.
- ⓈCollins Radio Co., Cedar Rapids, Iowa.
- ⓈCutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- ⓈElectric Regulator Corp., 1938 Park Ave., New York 35, N. Y.
- ⓈGates Radio Co., Quincy, Ill.
- ⓈGaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈMagnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- ⓈManufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- ⓈNORRMAN LABORATORIES, Ernst, Williams Bay, Wis. ADV. PG. 177.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Sierra Electronic Corp., San Carlos, Calif.
- ⓈVaro Mfg. Co., Inc., Box 638, Garland, Texas.

CONTROLS—Gain

See Attenuators

CONTROLS—Heat Treating

- ⓈAskania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- ⓈAssembly Products, Inc., Chagrin Falls 6, Ohio.
- ⓈBristol Co., The, Waterbury 20, Conn.

- ⓈBurling Instrument Co., 253 Springfield Ave., Newark 3, N. J.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈGordon Co., Claud S., 3000 S. Wallace St., Chicago 16, Ill.
- ⓈLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ⓈMACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
- Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa.
- ⓈMeters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ⓈMinneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- ⓈSherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈWESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ⓈWheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

CONTROLS—Humidity

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈBarber-Colman Co., Rockford, Ill.
- ⓈBowler, Inc., Refrigeration Div., Terryville, Conn.
- ⓈBristol Co., The, Waterbury 20, Conn.
- ⓈFielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈFriez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- ⓈGeneral Controls Co., Glendale 1, Calif.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Serdex, Inc., 91 Cambridge St., Boston, Mass.
- ⓈUnited Electric Controls Co., 85 School St., Waterbury 72, Mass.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- ⓈWESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

CONTROLS—Illumination

- ⓈFisher-Pierce Co., Inc., 70 Ceylon St., Boston 21, Mass.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa.
- ⓈO'Connor & Co., John T., West Orange, N. J.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- ⓈRobinette Co., W. C., 802 Fair Oaks Ave., S. Pasadena, Calif.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈSUPERIOR ELECTRIC CO., The, 83 Meadow St., Bristol, Conn. ADV. PG. 110, 111.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈWESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ⓈWorner Electronic Devices, Rankin, Ill.

CONTROLS—Inspection

- ⓈAIRCRAFT ELECTRONICS ASSOCIATES INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- ⓈARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
- ⓈGerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.
- ⓈO'Connor & Co., John T., West Orange, N. J.
- ⓈPhotobell Company, 116 Nassau St., New York 7, N. Y.
- ⓈPhotoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⓈTeletronics Laboratory, Inc., 352 Maple Ave., Westbury, L. I., N. Y.
- ⓈWorner Electronic Devices, Rankin, Ill.

CONTROLS—Liquid Level

- ⓈAir Associates, Inc., Teterboro, N. J.
- ⓈAirelectron, Inc., P. O. Box 151, Caldwell, N. J.
- ⓈAskania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.

V indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

- Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓢ Barber-Colman Co., Rockford, Ill.
- Ⓢ Bristol Co., The, Waterbury 20, Conn.
- Ⓢ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ Coral Designs, Box 248, Forest Hills, N. Y.
- Ⓢ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓢ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓢ Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
- Ⓢ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓢ Fischer & Porter Co., Hatboro, Pa.
- Ⓢ Foxboro Co., The, Foxboro, Mass.
- Ⓢ General Controls Co., Glendale 1, Calif.
- Ⓢ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31.
- Ⓢ Hercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
- Ⓢ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓢ Leopold & Stevens Instruments, Inc., 4445 N. E. Glisan St., Portland 13, Ore.
- Ⓢ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓢ Mercoid Corp., The, 4201 Belmont Ave., Chicago 41, Ill.
- Ⓢ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓢ Mosher Electronic Controls, 130 W. 42nd St., New York, N. Y.
- Ⓢ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Ⓢ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ United Electric Controls Co., 85 School St., Waterbury 72, Mass.
- Ⓢ Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Ⓢ Warrick Co., Chas. F., 16251 Hamilton Ave., Detroit 3, Mich.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓢ Worner Electronic Devices, Rankin, Ill.

CONTROLS—Loop Regulation

- Ⓢ Clark Controller Co., The, 1146 E. 152nd St., Cleveland 10, Ohio.
- Ⓢ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓢ O'Connor & Co., John T., West Orange, N. J.
- Ⓢ Philbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Machine Safety

- Ⓢ AIRCRAFT ELECTRONICS Associates Inc., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- Ⓢ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓢ Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- Ⓢ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓢ Gerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.
- Ⓢ Hoffman Engineering Corp., Anoka, Minn.
- Ⓢ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓢ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓢ Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- Ⓢ O'Connor & Co., John T., West Orange, N. J.
- Ⓢ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Ⓢ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ Worner Electronic Devices, Rankin, Ill.

CONTROLS—Materials Thickness

- Ⓢ Electric Eye Equipment Co., 16 W. Fairchild St., Danville, Ill.
- Ⓢ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓢ Gerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.
- Ⓢ O'Connor & Co., John T., West Orange, N. J.
- Ⓢ Pratt & Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.
- Ⓢ Schaevitz Engineering, Crescent Blvd., at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.

- Ⓢ Stevens-Arnold Inc., 22 Elkins St., South Boston 27, Mass.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Mechanical Switch

- Ⓢ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓢ National Acme Co., 176 E. 131st St., Cleveland 8, Ohio.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Moisture

- Ⓢ American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Ⓢ Barber-Colman Co., Rockford, Ill.
- Ⓢ Bowser Inc., Refrigeration Div., Terryville, Conn.
- Ⓢ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓢ Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa.
- Ⓢ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

CONTROLS—Oxygen

- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

CONTROLS—Ozone

- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

CONTROLS—PH

- Ⓢ Bristol Co., The, Waterbury 20, Conn.
- Ⓢ Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Ⓢ Foxboro Co., The, Foxboro, Mass.
- Ⓢ LaMotte Chemical Products Co., Towson 4, Baltimore, Md.
- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓢ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- Ⓢ Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

CONTROLS—Package Wrapping

- Ⓢ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓢ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓢ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

CONTROLS—Photoelectric

- Ⓢ Acme Teletronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- Ⓢ Airlectron, P. O. Box 151, Caldwell, N. J.
- Ⓢ American Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
- Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓢ Autotron Co., The, Danville, Ill.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓢ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓢ Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- Ⓢ Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.
- Ⓢ Fisher-Pierce Co., Inc., 70 Ceylon St., Boston 21, Mass.
- Ⓢ FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. City, N. Y. ADV. PG. 278.
- Ⓢ Gorrell & Gorrell, Haworth, N. J.
- Ⓢ Hoffman Engineering Corp., Anoka, Minn.
- Ⓢ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓢ Lectro-Max Inc., 15 S. First St., Geneva, Ill.
- Ⓢ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.

- Ⓢ McElroy Mfg. Co., Littleton, Mass.
- Ⓢ Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- Ⓢ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓢ O'Connor & Co., John T., West Orange, N. J.
- Ⓢ Phlica Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Photobell Company, 116 Nassau St., New York 7, N. Y.
- Ⓢ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓢ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Skaneateles Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
- Ⓢ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓢ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓢ Worner Electronic Devices, Rankin, Ill.
- Ⓢ Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

CONTROLS—Photographic Exposure

- Ⓢ Acme Teletronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- Ⓢ Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
- Ⓢ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

CONTROLS—Positioning

- Ⓢ Air Associates, Inc., Teterboro, N. J.
- Ⓢ Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓢ American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓢ Askania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Barber Colman Co., Rockford, Ill.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓢ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓢ ECLIPSE PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓢ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓢ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓢ FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. City, N. Y. ADV. PG. 278.
- Ⓢ Gerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.
- Ⓢ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓢ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis, Minn.
- Ⓢ O'Connor & Co., John T., West Orange, N. J.
- Ⓢ Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Ⓢ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓢ Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Ⓢ Schaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- Ⓢ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Pater-son, N. J. ADV. PG. 187.
- Ⓢ Servomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.
- Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Stevens-Arnold Inc., 22 Elkins St., South Boston 27, Mass.
- Ⓢ SUPERIOR ELECTRIC CO., 83 Meadow St., Bristol, Conn. ADV. PG. 110, 111.
- Ⓢ Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ Worner Electronic Devices, Rankin, Ill.

CONTROLS—Power Level

- Ⓢ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓢ Gates Radio Co., Quincy, Ill.

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ Machine-O-Matic Inc., P. O. Box 238, Ashley, Ohio. Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

CONTROLS—Pressure

- Ⓥ Allen-Bradley Co., 136 Greenfield Ave., Milwaukee 4, Wis.
- Ⓥ Askania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- Ⓥ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓥ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓥ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓥ Bowser, Inc., Refrigeration Div., Terryville, Conn.
- Ⓥ Bristol Co., The, Waterbury 20, Conn.
- Ⓥ Coral Designs, P. O., Box 248, Forest Hills, N. Y.
- Ⓥ Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- Ⓥ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓥ Fischer & Porter Co., Hatboro, Pa.
- Ⓥ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓥ Foxboro Co., The, Foxboro, Mass.
- Ⓥ General Controls Co., Glendale 1, Calif.
- Ⓥ Gerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.
- Ⓥ Hastings Instrument Co., Box 1275, Hampton, Va.
- Ⓥ Mercoid Corp., The, 4201 Belmont Ave., Chicago 41, Ill.
- Ⓥ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓥ Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓥ Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ United Electric Controls Co., 85 School St., Watertown 72, Mass.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Printing

- Ⓥ Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓥ Askania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- Ⓥ Electric Eye Equipment Co., 16 W. Fairchild St., Danville, Ill.
- Ⓥ FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. City, N. Y. ADV. PG. 278.
- Ⓥ Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- Ⓥ Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Radio Remote

- Ⓥ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- Ⓥ Air Associates, Inc., Teterboro, N. J.
- Ⓥ American Electronizing Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓥ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓥ Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓥ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓥ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
- Ⓥ Breco Electronics Corp., 55 Vandam St., New York 13, N. Y.
- Ⓥ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓥ Collins Radio Co., Cedar Rapids, Iowa
- Ⓥ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓥ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓥ Dual-Remote Control Co., Garden City, Mich.
- Ⓥ Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- Ⓥ Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
- Ⓥ Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓥ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓥ Kupfrian Mfg. Co., 350 State St., Binghamton, N. Y.
- Ⓥ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓥ Lenkurt Electric Co., Inc., San Carlos, Calif.
- Ⓥ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓥ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 3, Pa.
- Ⓥ Precision Electronic Components Reg'd., P. O. Box 264, Granby, Quebec, Canada.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

- Ⓥ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓥ Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓥ Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.
- Ⓥ Teleronics Laboratory, Inc., 352 Maple Ave., Westbury, L. I., N. Y.
- Ⓥ Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- Ⓥ White Dental Mfg. Co., S. S., Industrial Div., 10 E. 40th St., New York, N. Y.
- Ⓥ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

CONTROLS—Refrigeration Defrosting

- Ⓥ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓥ Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- Ⓥ General Controls Co., Glendale 1, Calif.
- Ⓥ HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- Ⓥ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓥ Paragon Electric Co., Two Rivers, Wisconsin.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Register

- Ⓥ AIRCRAFT ELECTRONICS ASSOCIATES, INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- Ⓥ Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓥ Askania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- Ⓥ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓥ Electric Eye Equipment Co., 16 W. Fairchild St., Danville, Ill.
- Ⓥ Fisher-Pierce Co., 70 Ceylon St., Boston 21, Mass.
- Ⓥ FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. City, N. Y. ADV. PG. 278.
- Ⓥ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓥ Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- Ⓥ O'Connor & Co., John T., West Orange, N. J.
- Ⓥ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Ⓥ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓥ Worner Electronic Devices, Rankin, Ill.

CONTROLS—Register Cutter

- Ⓥ Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓥ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓥ FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. City, N. Y. ADV. PG. 278.
- Ⓥ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓥ Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- Ⓥ O'Connor & Co., John T., West Orange, N. J.
- Ⓥ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓥ Worner Electronic Devices, Rankin, Ill.

CONTROLS—Servo

- Ⓥ Air Associates, Inc., Teterboro, N. J.
- Ⓥ Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓥ ARMA CORP., 254 36th St., Brooklyn, 32, N. Y. ADV. PG. 146.
- Ⓥ Askania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- Ⓥ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓥ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- Ⓥ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓥ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- Ⓥ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓥ ECLIPSE-PIONEER DIV. OF BENDIX AVIATION CORP., Teterboro, N. J. ADV. PG. 176.
- Ⓥ Electronic Associates, Inc., Long Branch, N. J.
- Ⓥ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓥ FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., L. I. City, N. Y. ADV. PG. 278.
- Ⓥ Gaveco Laboratories, Inc., 2 East End Avenue, New York 21, N. Y.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓥ Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 38, Ill.
- Ⓥ KROHN-HITE INSTRUMENT CO., 580 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 128.
- Ⓥ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓥ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.

- Ⓥ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓥ Philbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Ⓥ Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Ⓥ SERVO CORP. OF AMERICA, 2020 Jericho Turnpike, New Hyde Park, N. Y. ADV. PG. 269.
- Ⓥ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson, N. J. ADV. PG. 187.
- Ⓥ Servomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- Ⓥ Ther Electric & Machine Works, 155 Jefferson St., Chicago, Ill.
- Ⓥ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓥ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓥ Wilson & Co., G. C., 2 N. Passaic Ave., Chatham, N. J.

CONTROLS—Skew

- Ⓥ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓥ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.

CONTROLS—Smoke & Combustion

- Ⓥ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland, Ohio.
- Ⓥ Bristol Co., The, Waterbury 20, Conn.
- Ⓥ Combustion Control Corp., 77 Broadway, Cambridge 42, Mass.
- Ⓥ Combustion Research Laboratories, Inc., 104-18 Metropolitan Ave., Forest Hills, N. Y.
- Ⓥ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓥ Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- Ⓥ Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.
- Ⓥ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓥ Electro-Max Inc., 15 S. First St., Geneva, Ill.
- Ⓥ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓥ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓥ Machine-O-Matic Inc., P. O. Box 238, Ashley, Ohio.
- Ⓥ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue S., Minneapolis, Minn.
- Ⓥ O'Connor & Co., John T., West Orange, N. J.
- Ⓥ Photobell Company, 116 Nassau St., New York 7, N. Y.
- Ⓥ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Ⓥ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓥ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓥ Wheelco Instruments Co., 847 Harrison St., Chicago 7, Ill.
- Ⓥ Worner Electronic Devices, Rankin, Ill.

CONTROLS—Sound System

- American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓥ Breco Electronics Corp., 55 Vandam St., New York 13, N. Y.
- Ⓥ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓥ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- Ⓥ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓥ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Ⓥ Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- Ⓥ Gates Radio Co., Quincy, Ill.
- Ⓥ Hart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.
- Ⓥ Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Ⓥ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓥ Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓥ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ Wirt Co., 5221 Greene St., Philadelphia 44, Pa.

V indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

CONTROLS—Specific Gravity

- ① Askania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
- ① Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.
- ① Fischer & Porter Co., Hatboro, Pa.
- ① Foxboro Co., The, Foxboro, Mass.
- ① Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ① Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- ① Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

CONTROLS—Strain

- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ① Baldwin Locomotive Works, Philadelphia 42, Pa.
- ① Foxboro Co., The, Foxboro, Mass.
- ① Gerrett Corp., M. A., 724 W. Winnebago St., Milwaukee 4, Wis.
- ① Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue S., Minneapolis, Minn.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

CONTROLS—Temperature

See Also Pyrometers

- ① Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wisconsin.
- ① American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- ① Askania Regulator Co., 240 E. Ontario St., Chicago 16, Ill.
- ① Assembly Products, Inc., Chagrin Falls 6, Ohio.
- ① Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- ① Automatic Signal Division, 100 Regent St., East Norwalk, Conn.
- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ① Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ① Barber-Colman Co., Rockford, Ill.
- ① Bowser, Inc., Refrigeration Div., Terryville, Conn.
- ① Bristol Co., The, Waterbury 20, Conn.
- ① Burling Instrument Co., 253 Springfield Ave., Newark 3, N. J.
- ① Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① Cutler-Hammer, Inc., 411 S. 12th St., Milwaukee 1, Wis.
- ① EDISON INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129.
- ① ELECTRIC SOLDERING IRON CO., W. Elm St., Deep River, Conn. ADV. PG. 106.
- ① Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- ① Fenwal Inc., 43A Pleasant St., Ashland, Mass.
- ① Fischer & Porter Co., Hatboro, Pa.
- ① Foxboro Co., The, Foxboro, Mass.
- ① Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville 4, Tenn.
- ① Gaveco Labs, Inc., 2 East End Ave., New York 21, N. Y.
- ① General Controls Co., Glendale 1, Calif.
- ① Gordon Co., Claud S., 3000 S. Wallace St., Chicago 16, Ill.
- ① Hart Mfg. Co., 110 Bartholomew Ave., Hartford 1, Conn.
- ① Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- ① Lear, Inc., 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- ① Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ① MACDONALD & CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
- ① Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa.
- ① Manning, Maxwell & Moore, Inc., Stratford, Conn.
- ① Mercoid Corp., The, 4201 Belmont Ave., Chicago 41, Ill.
- ① Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ① Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ① Monitor Products Co., 815 Fremont St., So. Pasadena, Calif.
- ① Moulie Specialties Co., 1005-1007 W. Washington St., Bloomington, Ill.
- ① Philadelphia Thermometer Co., 4401 N. Sixth St., Philadelphia, Pa.
- ① Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- ① SPENCER-KENNEDY LABS, INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- ① Spencer Thermostat Co., 34 Forest St., Attleboro, Mass.
- ① Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ① STEVENS MFG. CO., INC., Mansfield, Ohio. ADV. PG. 222.

- ① Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- ① Ulanet Co., George, 413 Market St., Newark 5, N. J.
- ① United Electric Controls Co., 85 School St., Watertown 72, Mass.
- ① Waage Electric Inc., 54 Park Place, New York 7, N. Y.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ① Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

CONTROLS—Tentering

- ① Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ① O'Connor & Co., John T., West Orange, N. J.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

CONTROLS—Timing

- ① Adams & Westlake Co., Michigan St., Elkhart, Ind.
- ① Airborne Electronics Co., Metropolitan Airport; Hangar No. 3, Van Nuys, Calif.
- ① ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ① Berkeley Scientific Co., Richmond, Calif.
- ① Bristol Co., The, Waterbury 20, Conn.
- ① Coral Designs, Box 248, Forest Hills, N. Y.
- ① CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- ① Cutler-Hammer, Inc., 411 N. W. 12th St., Milwaukee 1, Wis.
- ① Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
- ① Eagle Signal Corp., Moline, Illinois.
- ① EDISON, INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129.
- ① Fisher-Pierce Co., Inc., 70 Ceylon St., Boston 21, Mass.
- ① Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- ① General Controls Co., Glendale 1, Calif.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① Gerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.
- ① Gorrell & Gorrell, Haworth, N. J.
- ① HAYDON CO., A. W., The, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- ① HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- ① Industrial Electronics Co., Inc., Hanover, Mass.
- ① Industrial Timer Co., 115 Edison Pl., Newark 5, N. J.
- ① Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- ① Lectro-Max Inc., 15 S. First St., Geneva, Ill.
- ① Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
- ① Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- ① Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ① Paragon Electric Co., Two Rivers, Wisconsin.
- ① Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- ① POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- ① Pratt & Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① Standard Electric Time Co., 89 Logan St., Springfield, Mass.
- ① TELECHRON, INC., Homer Ave., Ashland, Mass. ADV. PG. 197.
- ① Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
- ① Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- ① Weltron Co., 19500 West 8 Mile Rd., Detroit 19, Mich.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ① Wilson & Co., G. C., 2 N. Passaic Ave., Chatham, N. J.

CONTROLS—Torque

- ① Air Associates, Inc., Teterboro, N. J.
- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ① Baldwin Locomotive Works, Philadelphia 42, Pa.
- ① Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- ① Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- ① Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.

CONTROLS—Turbidity

- ① Electric Eye Equipment Co., 16 W. Fairchild St., Danville, Ill.
- ① Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- ① Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

CONTROLS—Ultrasonic

- ① CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ① Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ① Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① Tripplett & Barton, Inc., 831 N. Lake St., Burbank, Calif.
- ① Vendo Co., 7400 E. 12th St., Kansas City 8, Mo.

CONTROLS—Vacuum

- ① Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- ① Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ① Bowser, Inc., Refrigeration Div., Terryville, Conn.
- ① Bristol Co., The, Waterbury 20, Conn.
- ① Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- ① Electronic Brazing Co., 146 Glenridge Ave., Montclair, N. J.
- ① Foxboro Co., The, Foxboro, Mass.
- ① Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville 4, Tenn.
- ① Hastings Instrument Co., Box 1275, Hampton, Va.
- ① Litton Industries, San Carlos, Calif.
- ① Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ① National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- ① Optical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.
- ① Process & Instruments, 60 Greenpoint Ave., Brooklyn 20, N. Y.
- ① Skaneateles Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
- ① United Electric Controls Co., 85 School St., Watertown 72, Mass.
- ① Wallace & Tiernan Products, Inc., Belleville 9, N. J.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

CONTROLS—Ventilating Control System

- ① Barber Colman Co., Rockford, Ill.
- ① General Controls Co., Glendale 1, Calif.
- ① Hastings Instrument Co., Box 1275, Hampton, Va.
- ① Lear, Inc., 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- ① Mercoid Corp., 4201 Belmont Ave., Chicago, Ill.
- ① Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S. Minneapolis, Minn.
- ① Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ① Worner Electronic Devices, Rankin, Ill.

CONTROLS—Volume & Tone

- ① American Communications Corp., 306 Broadway, New York 7, N. Y.
- ① CENTRALAB, DIV. of Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- ① Chicago Telephone Supply Corp., 1142 W. Beardsley Ave., Elkhart, Ind.
- ① CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- ① Daven Co., 191 Central Ave., Newark 4, N. J.
- ① Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- ① Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- ① INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- ① Livingston Electronic Corp., Livingston, N. J.
- ① Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ① OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① Precision Electronic Components Ref'd., P. O. Box 264, Grandby, Quebec, Canada.
- ① STACKPOLE CARBON CO., St. Mary's Pa. ADV. PG. 166, 167.
- ① TRIMM INC., 400 W. Lake St., Libertyville, Ill. ADV. PG. 266.
- ① Wirt Co., 5221 Greene St., Philadelphia 44, Pa.

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CRYSTAL ANALYSIS EQUIPMENT

- ⓅBerkshire Laboratories, P. O. Box 70, Concord, Mass. ADV. PG. 210.
- ⓅCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 136.
- ⓅELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ⓅGeneral Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
- ⓅKAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ⓅLAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- ⓅNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓅREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.

CRYSTAL CARTRIDGES

- ⓅAmerican Microphone Co., 370 S. Fair Oaks Ave., Pasadena 1, Calif.
- ⓅAstatic Corp., The Conneaut, Ohio.
- ⓅAtlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- ⓅBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- ⓅELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- ⓅGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓅSHURE BROTHERS, INC., 225 W. Huron St., Chicago 10, Ill. ADV. PG. 19.
- ⓅTURNER CO., THE, 909 17th St., N. E., Cedar Rapids, Iowa. ADV. PG. 54.
- ⓅWebster Electric Co., 1900 Clark St., Racine, Wis.

CRYSTAL DIODES

See Crystals, Germanium Crystals, Silicon

CRYSTALS—Frequency Control

- ⓅBassett Inc., Rex, 307-11 N. W. 1st Ave., Ft. Lauderdale, Fla.
- ⓅBLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- ⓅBreon Labs., 1520 Evergreen Rd., Williamsport, Pa. Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- ⓅCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ⓅCrystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ⓅDallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ⓅEidson Electronic Co., 1802 N. Third St., Temple, Texas.
- ⓅGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓅHUNT CORP., THE, 455 Lincoln St., Carlisle, Pa. ADV. PG. 84.
- ⓅKaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- ⓅKNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ⓅMiller, August E., 9226 Hudson Blvd., North Bergen, N. J.
- ⓅMonitor Products Co., 815 Fremont St., So. Pasadena, Calif.
- ⓅNebel Lab., R. E., 1104 Lincoln Place, Brooklyn 13, N. Y.
- ⓅNORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- ⓅPiezo Products Co., Whitney St., Framingham, Mass.
- ⓅPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- ⓅPrecision Piezo Service, 427 Mayflower St., Baton Rouge, La.
- ⓅPremier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- ⓅRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓅRadio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- ⓅREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ⓅScientific Radio Products Co., 738 W. Broadway, Council Bluffs, Iowa.
- ⓅScientific Radio Service, 4301 Sheridan St., University Park, Mo.
- ⓅSentry Crystal Co., 206 S. W. Washington St., Portland 4, Ore.
- ⓅStandard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
- ⓅStandard Piezo Co., 127 Cedar St., Carlisle, Pa.
- ⓅStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓅValpey Crystals, Highland St., Holliston, Mass.
- ⓅWest Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- ⓅWestline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CRYSTALS—Frequency Multiplier

- ⓅBLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- ⓅBreon Labs., 1520 Evergreen Rd., Williamsport, Pa. Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- ⓅCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ⓅCrystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ⓅEidson Electronic Co., 1802 N. Third St., Temple, Texas.
- ⓅGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓅHUNT CORP., THE, 455 Lincoln St., Carlisle, Pa. ADV. PG. 84.
- ⓅKNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ⓅMonitor Products Co., 815 Fremont St., So. Pasadena, Calif.
- ⓅNebel Lab., R. E., 1104 Lincoln Place, Brooklyn 13, N. Y.
- ⓅPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- ⓅPremier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- ⓅRadio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- ⓅREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ⓅScientific Radio Products Co., 738 W. Broadway, Council Bluffs, Iowa.
- ⓅStandard Piezo Co., 127 Cedar St., Carlisle, Pa.
- ⓅStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓅValpey Crystals, Highland St., Holliston, Mass.
- ⓅWest Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- ⓅWestline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CRYSTALS—Frequency Standard

- ⓅBLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa., ADV. PG. 136.
- ⓅBreon Labs., 1520 Evergreen Rd., Williamsport, Pa. Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- ⓅCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ⓅDallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ⓅELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ⓅGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓅGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓅHUNT CORP., THE, 455 Lincoln St., Carlisle, Pa. ADV. PG. 84.
- ⓅKNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ⓅMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓅMiller, August E., 9226 Hudson Blvd., North Bergen, N. J.
- ⓅMonitor Products Co., 815 Fremont St., So. Pasadena, Calif.
- ⓅNebel Lab., R. E., 1104 Lincoln Place, Brooklyn 13, N. Y.
- ⓅNORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- ⓅPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- ⓅPremier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- ⓅPrecision Piezo Service, 427 Mayflower St., Baton Rouge, La.
- ⓅRadio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Oregon.
- ⓅREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ⓅStandard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
- ⓅStandard Piezo Co., 127 Cedar St., Carlisle, Pa.
- ⓅStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓅValpey Crystals, Highland St., Holliston, Mass.
- ⓅWest Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- ⓅWestline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CRYSTALS—Germanium

- ⓅGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓅGENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓅINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓅKemtron Electron Products, Inc., 23 Brown St., Salem, Mass.
- ⓅSYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

CRYSTALS—i-f Filter

- ⓅBLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- ⓅBreon Labs., 1520 Evergreen Rd., Williamsport, Pa.
- ⓅCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ⓅCollins Radio Co., Cedar Rapids, Iowa.
- ⓅCrystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ⓅDallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ⓅGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓅKNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ⓅMiller, August E., 9226 Hudson Blvd., North Bergen, N. J.
- ⓅMonitor Products Co., 815 Fremont St., So. Pasadena, Calif.
- ⓅNebel Lab., R. E., 1104 Lincoln Place, Brooklyn 13, N. Y.
- ⓅPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- ⓅPremier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- ⓅRadio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- ⓅREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ⓅScientific Radio Products Co., 738 W. Broadway, Council Bluffs, Iowa.
- ⓅStandard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
- ⓅStandard Piezo Co., 127 Cedar St., Carlisle, Pa.
- ⓅStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓅValpey Crystals, Highland St., Holliston, Mass.
- ⓅWestline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CRYSTALS—Microwave

- ⓅCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ⓅMicrowave Equipment Co., Inc., North Caldwell, N. J.
- ⓅWestline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CRYSTALS—Piezoelectric

- ⓅAtlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- ⓅBassett Inc., Rex, 307-11 N. W. 1st Ave., Ft. Lauderdale, Fla.
- ⓅBausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- ⓅBLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- ⓅBreon Laboratories, 1520 Evergreen Rd., Williamsport, Pa.
- ⓅBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- ⓅBurnett Radio Lab., Wm., W. L., 4814 Idaho St., San Diego, Calif.
- ⓅCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ⓅCrystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ⓅDiamond Drill Carbon Co., 53-63 Park Row, New York 7, N. Y.
- ⓅEidson Electronic Co., 1802 N. Third St., Temple, Texas.
- ⓅEdo Corp., College Point, Long Island, N. Y.
- ⓅGULTON MFG. CORP., Metuchen, N. J. ADV. PG. 262.
- ⓅHUNT CORP., THE, 455 Lincoln St., Carlisle, Pa. ADV. PG. 84.
- ⓅKaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- ⓅKNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ⓅMonitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- ⓅNebel Lab., R. E., 1104 Lincoln Pl., Brooklyn 13, N. Y.
- ⓅPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- ⓅPrecision Piezo Service, 427 Mayflower St., Baton Rouge, La.
- ⓅPremier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- ⓅRadio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- ⓅREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ⓅSentry Crystal Co., 206 S. W. Washington St., Portland 4, Ore.
- ⓅStandard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
- ⓅStandard Piezo Co., 127 Cedar St., Carlisle, Pa.
- ⓅTibbets Industries, Inc., Camden, Maine.
- ⓅValpey Crystals, Highland St., Holliston, Mass.
- ⓅWestline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

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CRYSTALS—Quartz

- Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
 Ⓢ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Ft. Lauderdale, Fla.
 Ⓢ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
 Ⓢ Breon Labs., 1520 Evergreen Rd., Williamsport, Pa.
 Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
 Ⓢ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
 Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
 Diamond Drill Carbon Co., 53-63 Park Row, New York 7, N. Y.
 Ⓢ Eidson Electronic Co., 1802 N. Third St., Temple, Texas.
 Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Ⓢ HUNT CORP., THE, 455 Lincoln St., Carlisle, Pa. ADV. PG. 84.
 Ⓢ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
 Ⓢ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
 Ⓢ Miller, August E., 9226 Hudson Blvd., North Bergen, N. J.
 Monitor Products Co., 815 Fremont St., South Pasadena, Calif.
 Ⓢ Nebel Lab., R. E., 1104 Lincoln Pl., Brooklyn 13, N. Y.
 Ⓢ Northern Radio Co., 314 Bell St., Seattle 1, Wash.
 Piezo Products Co., Whitney St., Framingham, Mass.
 Ⓢ Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
 Ⓢ Precision Piezo Service, 427 Mayflower St., Baton Rouge, La.
 Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
 Radio Specialty Mfg. Co., 2023 S. E. 6th Ave., Portland 14, Oregon.
 Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
 Ⓢ Scientific Radio Products Co., 738 W. Broadway, Council Bluffs, Iowa.
 Ⓢ Sentry Crystal Co., 206 S. W. Washington St., Portland 4, Ore.
 Ⓢ Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
 Ⓢ Standard Piezo Co., 127 Cedar St., Carlisle, Pa.
 Ⓢ Valpey Crystals, Highland St., Holliston, Mass.
 Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CRYSTALS—Receiver Control

- Ⓢ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Ft. Lauderdale, Fla.
 Ⓢ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
 Ⓢ Breon Laboratories, 1520 Evergreen Rd., Williamsport, Pa.
 Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
 Ⓢ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
 Ⓢ Eidson Electronic Co., 1802 N. Third St., Temple, Texas.
 Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Ⓢ HUNT CORP., THE, 455 Lincoln St., Carlisle, Pa. ADV. PG. 84.
 Ⓢ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
 Ⓢ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
 Ⓢ Miller, August E., 9226 Hudson Blvd., North Bergen, N. J.
 Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
 Ⓢ Nebel Lab., R. E., 1104 Lincoln Pl., Brooklyn 13, N. Y.
 Ⓢ Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
 Ⓢ Precision Piezo Service, 427 Mayflower St., Baton Rouge, La.
 Ⓢ Premier Crystal Labs. Inc., 79-89 Seventh Ave., New York 11, N. Y.
 Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
 Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
 Ⓢ Scientific Radio Service, 4301 Sheridan St., University Park, Md.
 Ⓢ Sentry Crystal Co., 206 S. Washington St., Portland 4, Ore.
 Ⓢ Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
 Ⓢ Standard Piezo Co., 127 Cedar St., Carlisle, Pa.
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ Valpey Crystals, Highland St., Holliston, Mass.
 Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CRYSTALS—Rochelle Salt

- Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
 Tibbetts Industries, Inc., Camden, Maine.

CRYSTALS—Scintillation Counter

- Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
 Ⓢ MACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
 Ⓢ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 Ⓢ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.

CRYSTALS—Silicon

- Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
 Ⓢ Kemtron Electron Products, Inc., 23 Brown St., Salem, Mass.
 Ⓢ Standard Piezo Co., 127 Cedar St., Carlisle, Pa.
 Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

CRYSTALS—Tourmaline

- Ⓢ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
 Ⓢ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
 Diamond Drill Carbon Co., 53-63 Park Row, New York 7, N. Y.
 Ⓢ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
 Ⓢ Miller, August E., 9226 Hudson Blvd., North Bergen, N. J.
 Ⓢ Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
 Ⓢ Premier Crystal Labs. Inc., 79-89 Seventh Ave., New York 11, N. Y.
 Ⓢ Valpey Crystals, Highland St., Holliston, Mass.

CRYSTALS—Ultrasonic

- Ⓢ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
 Ⓢ Breon Labs., 1520 Evergreen Rd., Williamsport, Pa.
 Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
 Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
 Ⓢ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
 Ⓢ Edo Corp., College Point, Long Island, N. Y.
 Ⓢ Eidson Electronic Co., 1802 N. Third St., Temple, Texas.
 Ⓢ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
 Ⓢ Miller, August E., 9226 Hudson Blvd., North Bergen, N. J.
 Monitor Products Co., 815 Fremont St., So. Pasadena, Calif.
 Ⓢ Piezo Products Co., Whitney St., Framingham, Mass.
 Ⓢ Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
 Ⓢ Precision Piezo Service, 427 Mayflower St., Baton Rouge, La.
 Ⓢ Premier Crystal Labs. Inc., 79-89 Seventh Ave., New York 11, N. Y.
 Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
 Ⓢ Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
 Ⓢ Standard Piezo Co., 127 Cedar St., Carlisle, Pa.
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ Valpey Crystals, Highland St., Holliston, Mass.
 Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

CYCLOTRONS

- Ⓢ Collins Radio Co., Cedar Rapids, Iowa.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Div., Schenectady 5, N. Y. ADV. PG. 5 to 18
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.

DECADE BOXES—Capacitance

- Ⓢ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 136.
 Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
 Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.

- Ⓢ Industrial Instruments, Inc., 17 Pollack Ave., Jersey City 5, N. J.
 Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
 Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 Ⓢ MUIRHEAD & CO., LTD., Beckenham, Kent, England. ADV. PG. 71.
 Ⓢ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
 Ⓢ RADIO FREQUENCY LABS., INC., Boonton 2, N. J. ADV. PG. 172.
 Ⓢ Special Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.
 Ⓢ UNITED CONDENSER CORP., 337 E. 139th St., New York 54, N. Y. ADV. PG. 236.

DECADE BOXES—Inductance

- Ⓢ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
 Ⓢ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ Hycoor Co., 11423 Vanowen St., North Hollywood, Calif.
 Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.

DECADE BOXES—Resistance

- Ⓢ Analysis Instrument Co., P. O. Box 231, East Paterson, N. J.
 Ⓢ Berkshire Laboratories, P. O. Box 70, Concord, Mass.
 Ⓢ BROWN ELECTRO-MEASUREMENT CORP., 4637 S. E., Hawthorne Blvd., Portland 15, Oregon. ADV. PG. 276.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Ⓢ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 Ⓢ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
 Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Ⓢ Daven Co., 191 Central Ave., Newark 4, N. J.
 Electronic Brazing Co., 146 Glenridge Ave., Montclair, N. J.
 Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ Hycoor Co., 11423 Vanowen St., North Hollywood, Calif.
 Ⓢ Industrial Instruments, Inc., 17 Pollack Ave., Jersey City 5, N. J.
 Ⓢ INSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
 Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
 Ⓢ Marma Electronic Co., 703 Willow St., Chicago 14, Ill.
 Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 Ⓢ MUIRHEAD & CO., Ltd., Beckenham-Kent-England. ADV. PG. 71.
 Ⓢ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
 Ⓢ OHMITE MFG. CO., 4835 W. Flornoy St., Chicago 44, Ill. ADV. PG. 83.
 Ⓢ RADIO FREQUENCY LABS., INC., Boonton 2, N. J. ADV. PG. 172.
 Ⓢ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
 Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
 Ⓢ Special Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.
 Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N. Y.
 Ⓢ Tech Laboratories, Inc., Bergen & Edsall Bldgs., Palisades Park, N. J.
 Ⓢ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

DEFLECTION YOKES

See Yokes, Deflection

DEHYDRATORS—Automatic

- Ⓢ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
 Ⓢ Bowser, Inc., Refrigeration Div., Terryville, Conn.
 Ⓢ Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
 Ⓢ Product Development Co., Inc., Arlington, N. J.

DENSITOMETERS

- Ⓢ Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
 Ⓢ Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
 Ⓢ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
 Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

DERMOMETERS

Ⓢ Electro-Medical Lab. Inc., Holliston, Mass.

DETECTORS—Alpha

Ⓢ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Applied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
 Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
 Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓢ Clarkstan Corp., 11927 S. W., Pico Blvd., Los Angeles 64, Calif.
 Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
 Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 Ⓢ Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
 Ⓢ MACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
 Ⓢ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Nuclear Development Lab., P. O. Box 7034, Kansas City, Mo.
 Ⓢ Nuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
 Ⓢ Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
 Ⓢ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Ⓢ Radioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
 Ⓢ Technical Associates, 3730 San Fernando Rd., Glendale 4, Calif.
 Ⓢ Tracerlab, Inc., 130 High St., Boston 10, Mass.
 Ⓢ VICTOREEN INSTRUMENT CO., 5806 Hough Ave., Cleveland 3, Ohio. ADV. PG. 241.
 Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

DETECTORS—Beta

Ⓢ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Applied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
 Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
 Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
 Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
 Ⓢ Forty Niner Co., 5245 Grand River, Detroit 8, Mich.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
 Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Ohio.
 Ⓢ Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
 Ⓢ MACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
 Ⓢ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Nuclear Development Lab., P. O. Box 7034, Kansas City, Mo.
 Ⓢ Nuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
 Ⓢ Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
 Ⓢ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Ⓢ Radioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
 Ⓢ Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.

Ⓢ Technical Associates, 3730 San Fernando Rd., Glendale 4, Calif.
 Ⓢ Tracerlab, Inc., 130 High St., Boston 10, Mass.
 Ⓢ VICTOREEN INSTRUMENT CO., 5806 Hough Ave., Cleveland 3, Ohio. ADV. PG. 241.
 Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

DETECTORS—Crystal

Ⓢ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
 Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Ⓢ Kemtron Electron Products, Inc., 23 Brown St., Salem, Mass.
 Ⓢ Microwave Equipment Co., Inc., North Caldwell, N. J.
 Ⓢ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
 Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
 Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

DETECTORS—Crystal Germanium

See Crystals, Germanium

DETECTORS—Crystal Silicon

See Crystals, Silicon

DETECTORS—Explosive Gas

Ⓢ Baird Associates, Inc., 33 University Rd., Cambridge 38, Mass.

DETECTORS—Fire

Ⓢ American Communications Corp., 306 Broadway, New York 7, N. Y.
 Ⓢ C-0-Two Fire Equipment Co., P. O. Box 390, U. S. Highway 1, Newark 1, N. J.
 Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ Fenwal, Inc., 43A Pleasant St., Ashland, Mass.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
 Ⓢ Technical Associates, 3730 San Fernando Rd., Glendale 4, Calif.

DETECTORS—Flaw & Defect

Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Magnetic Analysis Corp., 42-44 Twelfth St., Long Island City, N. Y.
 Ⓢ Photobell Company, 116 Nassau St., New York 7, N. Y.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ SPERRY PRODUCTS, INC., Danbury, Conn. ADV. PG. 54.
 Ⓢ Tripplett & Barton, Inc., 831 N. Lake St., Burbank, Calif.
 Ⓢ Vacuum Electronic Engineering Co., 316 37th St., Brooklyn 2, N. Y.

DETECTORS—Galena

Ⓢ Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
 Ⓢ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.

DETECTORS—Impedance

Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

DETECTORS—Null

Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓢ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
 Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ HARVEY RADIO LABS., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
 Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.

Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
 Ⓢ MACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
 Ⓢ Marconi Instruments Ltd., 23 Beaver St., New York 4, N. Y.
 Ⓢ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

DETECTORS, RADIATION

Ⓢ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Applied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
 Ⓢ Atlas Coil Winders, Inc., Stamford, Conn.
 Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
 Ⓢ Clarkstan Corp., 11927 S. W. Pico Blvd., Los Angeles 64, Calif.
 Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
 Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Ⓢ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
 Ⓢ FLADER, INC., Frederic, North Tonawanda, N. Y. ADV. PG. 240.
 Ⓢ Forty Niner Co., 5245 Grand River, Detroit 8, Mich.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 Ⓢ Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
 Ⓢ MACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
 Ⓢ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
 Ⓢ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Ⓢ Nuclear Development Lab., P. O. Box 7034, Kansas City, Mo.
 Ⓢ Nuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
 Ⓢ Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
 Ⓢ Perkin-Elmer Corp., The, Glenbrook, Conn.
 Ⓢ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Ⓢ Radioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
 Ⓢ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
 Ⓢ Technical Associates, 3730 San Fernando Rd., Glendale 4, Calif.
 Ⓢ Tracerlab, Inc., 130 High St., Boston 10, Mass.
 Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

DETECTORS—r-f Null

Ⓢ Kalbfell Labs., Inc., 1076 Morena Blvd., San Diego 10, Calif.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

DETECTORS—Reactance

Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

DETECTORS—Vibration

Ⓢ AIRCRAFT ELECTRONICS ASSOCIATES, INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
 Ⓢ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
 FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
 Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
 Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.

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Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

- ⓂSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- ⓂSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Graet Neck, N. Y. ADV. PG. 85, 86.

DETECTORS—Water Leak

- Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- ⓂNilsson Electrical Laboratory, Inc., 103 Lafayette St., New York 13, N. Y.

DIAL CRYSTALS

- Austin Co., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓂEmeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.
- Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- ⓂGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓂParisian Novelty Co., 3510 South Western Ave., Chicago 9, Ill.
- Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Printloid Inc., 95 Mercer St., New York, N. Y.
- ⓂSillcocks-Miller Co., 10 Parker Ave. W., So. Orange, N. J.

DIALS—Instrument

- ⓂAcromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
- Apahouser Corp., 104 Brookline Ave., Boston, Mass.
- ⓂBowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md.
- Austin Co., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓂBud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Bunnett & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓂCINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- ⓂCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓂConsolidated Molded Products Corp., Scranton 2, Pa.
- ⓂCroname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- ⓂEmeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.
- ⓂEtched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓂGIBBS DIVISION, GEORGE W. BORG CORP., Delavan, Wis. ADV. PG. 198, 199.
- Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
- ⓂGrammes & Sons, Inc., L. F., 389 Union St., Allentown 2, Pa.
- ⓂHELIPOT CO., 916 Meridian Ave., So. Pasadena, Calif. ADV. PG. 101.
- ⓂHopp Press Inc., 460 W. 34th St., New York, N. Y.
- ⓂInstrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
- ⓂINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓂLamicoid Fabricators, Inc., 4545 Cortland St., Chicago 39, Ill.
- ⓂMICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- ⓂMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓂMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓂOptical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.
- ⓂParisian Novelty Co., 3510 S. Western Ave., Chicago 9, Ill.
- Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Plastic Fabricators Co., 440 Sansome St., San Francisco 11, Calif.
- ⓂPremier Metal Etching Co., 21-03 44th Ave., Long Island City, N. Y.
- Printloid, Inc., 95 Mercer St., New York, N. Y.
- ⓂSillcocks-Miller Co., 10 Parker Ave. W., So. Orange, N. J.
- ⓂStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- Sun Dial Corp., E. Passaic Ave., Caldwell Township, N. J.
- ⓂTablet & Ticket Co., 1021 W. Adams St., Chicago 7, Ill.
- ⓂTechnicraft Supply Co., Radiocrafters, 1156 Commonwealth Ave., Boston 14, Mass.
- ⓂTechnology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ⓂU. S. Gauge Div., American Machine & Metals Inc., Sellersville, Pa.
- ⓂU. S. Radium Corp., 535 Pearl St., New York 7, N. Y.
- ⓂWESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

DIALS—Precision

- ⓂAcromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
- Apahouser Corp., 104 Brookline Ave., Boston, Mass.
- Austin Co., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓂBaldwin Locomotive Works, Philadelphia 42, Pa.
- ⓂBowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md.
- ⓂCINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- ⓂCitation Products Co., 233 E. 146th St., New York 51, N. Y.
- ⓂCroname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- ⓂGaertner Scientific Corp., 1201 Wrightwood Ave., Chicago 14, Ill.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
- ⓂHELIPOT CORP., 916 Meridian Ave., So. Pasadena, Calif. ADV. PG. 101.
- ⓂInstrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
- ⓂMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓂMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓂNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Printloid, Inc., 95 Mercer St., New York, N. Y.
- ⓂStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- Sun Dial Corp., E. Passaic Ave., Caldwell Township, N. J.
- ⓂTablet & Ticket Co., 1021 W. Adams St., Chicago 7, Ill.
- ⓂU. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- ⓂU. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

DIATHERMY ACCESSORIES

- ⓂAmerican Diathermy Productions, 11240 W. Olympic Blvd., Los Angeles 25, Calif.
- ⓂAndrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ⓂBirtcher Corp., 5087 Huntington Dr., Los Angeles 32, Calif.
- ⓂBranston Electric Mfg. Co., Inc., 62-65 Gill Pl., Buffalo 22, N. Y.
- Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ⓂGeneral Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
- ⓂGeneral R-F Fittings Co., 126 Dartmouth St., Boston 16, Mass.
- ⓂLepel High Frequency Labs., Inc., 39 W. 60th St., New York 23, N. Y.
- ⓂLiebel-Flarsheim Co., 303 W. Third St., Cincinnati 2, Ohio.

DIAPHRAGMS

- ⓂCook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- ⓂHawley Products Co., St. Charles, Ill.
- ⓂLORD MFG. CO., 1635 W. 12th St., Erie, Pa. ADV. PG. 55.
- ⓂRacon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ⓂStevens Products Inc., 86-88 Main St., East Orange, N. J.
- ⓂWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

DIATHERMY

- ⓂAmerican Diathermy Productions, 11240 W. Olympic Blvd., Los Angeles 25, Calif.
- ⓂBirtcher Corp., 5087 Huntington Dr., Los Angeles 32, Calif.
- ⓂBranston Electric Mfg. Co., Inc., 62-65 Gill Pl., Buffalo 22, N. Y.
- Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ⓂGeneral Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
- ⓂLepel High Frequency Labs., Inc., 39 W. 60th St., New York 23, N. Y.
- ⓂLiebel-Flarsheim Co., 303 W. Third St., Cincinnati 2, Ohio.
- ⓂMarconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ⓂMooradian High Frequency Labs., 13 E. Fort Lee Rd., Bogota, N. J.
- ⓂRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓂWappler, Inc., 27 W. 24th St., New York 10, N. Y.

- ⓂMarconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ⓂMooradian High Frequency Labs., 13 E. Fort Lee Rd., Bogota, N. J.
- ⓂRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓂWappler, Inc., 27 W. 24th St., New York 10, N. Y.

DIELECTRIC HEATING

See Heating, Dielectric

DIELECTRICS—Liquids & Solids

- ⓂBakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ⓂCENTRALLAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- ⓂDielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- ⓂDow Chemical Co., Midland, Mich.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂGENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- ⓂHalowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ⓂLocke Incorporated, P. O. Box 57, Baltimore 3, Md.

DIES

- ⓂAcklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- ⓂAcromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
- ⓂART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- ⓂAskania Regulator Corp., 240 E. Ontario St., Chicago 11, Ill.
- ⓂBarrett Bindery Co., 1332 W. Monroe St., Chicago 7, Ill.
- ⓂCarboloy Company Inc., 11139 E. Eight Mile Blvd., Detroit 32, Mich.
- ⓂEastern Specialty Co., Philadelphia 40, Pa.
- Electronic Mechanics, Inc., 70 Clifton Blvd., Clifton, N. J.
- Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- ⓂFelt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
- ⓂGreene Mfg. Corp., G. G., Warren, Pa.
- ⓂHovis Screwlock Co., 8100 E. Nine Mile Rd., Van Dyke, Mich.
- ⓂIndustrial Precision Products Co., 315-325 N. Hoyne Ave., Chicago 12, Ill.
- ⓂINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- ⓂMicacraft Products, Inc., 701 McCarter Highway, Newark 5, N. J.
- ⓂMorris Co., J. I., 394 Elm St., Southbridge, Mass.
- ⓂNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓂNational Lead Co., 111 Broadway, New York 6, N. Y.
- ⓂNorth American Phillips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓂOak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- ⓂO'Neil Irwin Mfg. Co., 316 8th Ave., Lake City, Minn.
- ⓂPratt & Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.
- ⓂProgressive Welder Co., 3050 E. Outer Drive, Detroit, Mich.
- ⓂRemler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- ⓂRepath Co., Paul R., 641 E. 61st St., Los Angeles 1, Calif.
- Sperman Metal Specialties, 27 Columbia Place, Brooklyn 2, N. Y.
- ⓂUnited Shoe Machinery Corp., 142 Federal St., Boston, Mass.
- ⓂWalter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.
- ⓂWhistler & Sons, Inc., S. B., 752 Military Rd., Buffalo 17, N. Y.
- ⓂWrought Washer Mfg. Co., 2264 S. Bay St., Milwaukee 7, Wis.

DILATOMETERS—Automatic Recording

- ⓂBristol Co., The, Waterbury 20, Conn.
- ⓂSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

DIRECTION FINDERS

- ⓂAir Associates, Inc., Teterboro, N. J.
- American Electronering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ⓂApplied Electronics Co., 1246 Folsom St., San Francisco 3, Calif.
- ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ⓂBendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
- Ⓢ Federal Telecommunication Labs., Inc., 500 Washington Ave., Nutley 10, N. J.
- Ⓢ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Jarvis Electronics Corp., 6058 Fullerton Ave., Chicago 39, Ill.
- Ⓢ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓢ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- Ⓢ SERVO CORP. OF AMERICA, 2020 Jericho Turnpike, New Hyde Park, N. Y. ADV. PG. 269.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.

DISCS—Blank Recording

- Ⓢ Advance Recording Products Co., 36-12 34th St., L. I. City, N. Y.
- Ⓢ Aim Industries, 41 Union Square, New York 3, N. Y.
- Ⓢ Allied Recording Products Co., 21-09 43rd Ave., Long Island City 1, N. Y.
- Ⓢ AUDIO DEVICES, INC., 444 Madison Ave., New York 22, N. Y. ADV. PG. 37.
- Ⓢ Home Recording Products Corp., Freeport, L. I., N. Y.
- Mirror Record Corp., 1133 Broadway, New York 10, N. Y.
- Ⓢ PRESTO RECORDING CORP., Paramus, N. J. ADV. PG. 94, 95.
- Ⓢ Recordisc Corp., 395 Broadway, New York, N. Y.
- Ⓢ Recoton Corp., 251 Fourth Ave., New York 10, N. Y.
- Ⓢ REEVES SOUND CRAFT CORP., 35-54 36th St., Long Island City, N. Y. ADV. PG. 171.
- Ⓢ Sonic Recording Products, Inc., 58 Mill Road, Freeport, N. Y.
- Ⓢ Soundscriber Corp., 146 Munson St., New Haven 4, Conn.
- Ⓢ Wilcox-Gay Corp., Charlotte, Michigan.

DRAFTING EQUIPMENT

- Ⓢ Bruning Co., Inc., Charles, 4754 Montrose Ave., Chicago 41, Ill.
- Ⓢ Dietzgen Co., Eugene, 2425 Sheffield Ave., Chicago, Ill.
- Ⓢ Dixon Crucible Co., Joseph, Jersey City, N. J.
- Ⓢ Eagle Pencil Co., 703 East 13th St., New York, N. Y.
- Ⓢ Eberhard Faber Pencil Co., 37 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ Keuffel & Esser Co., Hoboken, N. J.
- Ⓢ Post Co., Frederick, 3650 N. Avondale Ave., P. O. Box 803, Chicago 90, Ill.
- Ⓢ Universal Drafting Machine Corp., 7960 Lorain Ave., Cleveland 2, Ohio.
- Weber Co., F., 1220 Buttonwood St., Philadelphia 23, Pa.
- Weil & Co., J. H., 1315 Cherry St., Philadelphia 7, Pa.

DRIVERS—Recording

- Ⓢ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Ⓢ EASTERN AIR DEVICES, INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- Ⓢ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Ⓢ Gates Radio Co., Quincy, Ill.
- Ⓢ Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids, 2, Mich.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓢ Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.

DRIVES—Small Electric Drive Mechanisms

- Ⓢ Air Associates, Inc., Teterboro, N. J.
- Ⓢ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓢ Barber-Colman Co., Rockford, Ill.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- Ⓢ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Ⓢ EASTERN AIR DEVICES, INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- Ⓢ ELECTRIC INDICATOR CO., 21 Parker Ave., Stamford, Conn. ADV. PG. 160.
- Ⓢ Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.

- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Gleason-Avery Inc., Auburn, N. Y.
- Ⓢ Gorrell & Gorrell, Haworth, N. J.
- Ⓢ HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Ⓢ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓢ McElroy Mfg. Corp., Littleton, N. J.
- Ⓢ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- Ⓢ SERVO CORP. OF AMERICA, 2020 Jericho Turnpike, New Hyde Park, N. Y. ADV. PG. 269.
- Ⓢ Servomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.
- Ⓢ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- Ⓢ Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- Ⓢ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

DRYERS, ELECTRONIC—Dehydration and Drying

- Ⓢ Bowser, Inc., Refrigeration Div., Terryville, Conn.
- Ⓢ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Sherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.

DYNAMOMETERS

- Ⓢ Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.
- Ⓢ Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ L. A. B. Corp., 31 Union Place, Summit, N. J.
- Ⓢ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓢ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓢ Statham Laboratories, Inc., 9328 Santa Monica Blvd., Beverly Hills, Calif.

DYNAMOTORS

See Generators, Motor

ELECTRO MAGNETS

See Magnets

ELECTROCARDIOGRAPHS

- Ⓢ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S. Canada.
- Ⓢ Edin Electronics Co., 207 Main St., Worcester, Mass.
- Ⓢ Electrofax Corp., 30 Burtis Ave., New Canaan, Conn.
- Ⓢ General Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Bldvs., Palisades Park, N. J.
- Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

ELECTRODES—High Frequency

- Ⓢ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- Ⓢ Electronic Equipment & Instrument Co., Inc., 23 S. Arch St., Philadelphia 3, Pa.
- Ⓢ Electronic Processes Corp., 260 N. First St., San Jose 18, Calif.
- Ⓢ Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Pan-American Electronics, Inc., 5816 S. Sante Fe Ave., Los Angeles 11, Calif.
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Sherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
- Ⓢ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif.

ELECTRODYNAMOMETERS

- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.

- Ⓢ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓢ Triplett Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.
- Ⓢ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

ELECTROENCEPHALGRAPHS

- Ⓢ Edin Electronics Co., 207 Main St., Worcester, Mass.
- Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.
- Ⓢ Grass Instrument Co., 101 Old Colony Ave., Quincy, Mass.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ Offner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
- Ⓢ RAHM INSTRUMENTS, INC., 12 W. Broadway, New York 7, N. Y. ADV. PG. 178.

ELECTROMYOGRAPHS

- Ⓢ Edin Electronics Co., 207 Main St., Worcester, Mass.
- Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.
- Ⓢ Grass Instrument Co., 101 Old Colony Ave., Quincy, Mass.
- Ⓢ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ RAHM INSTRUMENTS, INC., 12 W. Broadway, New York 7, N. Y. ADV. PG. 178.

ELECTROLETHYSMOGRAPHS

- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ RAHM INSTRUMENTS, INC., 12 W. Broadway, New York 7, N. Y. ADV. PG. 178.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.

ELECTRO-SHOCK THERAPY APPARATUS

- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- Ⓢ Electronic Equipment & Instrument Co., Inc., 23 S. Arch St., Philadelphia 3, Pa.
- Ⓢ Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
- Ⓢ Offner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
- Ⓢ RAHM INSTRUMENTS, INC., 12 W. Broadway, New York 7, N. Y. ADV. PG. 178.

ELECTRO-SURGICAL APPARATUS

- Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓢ Birtcher Corp., 5087 Huntington Dr., Los Angeles 32, Calif.
- Ⓢ Branson Electric Mfg. Co., Inc., 62-65 Gill Pl., Buffalo 22, N. Y.
- Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- Ⓢ Electronic Equipment & Instrument Co., Inc., 23 Arch St., Philadelphia 3, Pa.
- Ⓢ Liebel-Flarsheim Co., 303 W. Third St., Cincinnati 2, Ohio.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ Mooradian High Frequency Labs., 13 E. Fort Lee Rd., Bogota, N. J.
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Statham Laboratories, Inc., 9328 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Wappler, Inc., 27 W. 24th St., New York 10, N. Y.

ELEMENTS, HEATING—Crystal Oven

- Ⓢ Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- Ⓢ Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- Ⓢ Monitor Products Co., 815 Fremont St., So. Pasadena, Calif.
- Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ VULCAN ELECTRIC CO., 88 Holten St., Danvers, Mass. ADV. PG. 226.

ESCUTCHEONS

- Ⓢ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Ⓢ American Emblem Co., P. O. Box 116 R, Utica, N. Y.
- Austin Co., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Ⓢ Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- Ⓢ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank Calif. ADV. PG. 186.
- Ⓢ Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- Ⓢ Delco Radio Div., General Motors Corp., Kokomo, Ind.
- Gemloid Corp., 79-10 Albion Ave., Elmhurst, N. Y.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
 Grammes & Sons, Inc., L. F., 389 Union St., Allentown 2, Pa.
 Haberland Mfg. Co., P. O. Box 476, Passaic, N. J.
 Kling Metal Spinning Co., 174 Centre St., New York 13, N. Y.
 Parisian Novelty Co., 3510 South Western Ave., Chicago 9, Ill.
 Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
 Plastimold Corp., Attleboro, Mass.
 Prestole Corp., 3119 Bellevue Rd., Toledo 6, Ohio.
 Stronghold Screw Products Inc., 216-222 W. Hubbard St., Chicago 10, Ill.
 Syracuse Ornamental Co., 581 So. Clinton St., Syracuse, N. Y.
 Waterbury Companies, Inc., Waterbury 90, Conn.

EYELETS

Atlas Tack Corp., Pleasant St., Fairhaven, Mass.
 Barrett Bindery Co., 1332 W. Monroe St., Chicago 7, Ill.
 Carby Mfg. Co., Inc., 62 Cottage Place, Waterbury 5, Conn.
FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
 Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
 Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
 United Carr Fastener Corp., Cambridge 42, Mass.
 United Shoe Machinery Corp., 142 Federal St., Boston, Mass.
 Waterbury Companies, Inc., Waterbury 90, Conn.

FABRIC

See **Insulation Materials**

FACSIMILE

See **Recorders, Facsimile**

FACSIMILE RECORDING PAPERS

See **Papers, Facsimile Recording**

FANS—Tube Cooling

Automatic Signal Division, 100 Regent St., East Norwalk, Conn.
 Barber-Colman Co., Rockford, Ill.
 Dynamic Air Engineering Inc., 1619 S. Alameda St., Los Angeles, Calif.
EASTERN AIR DEVICES, INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
 Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
 Fasco Industries, Inc., Rochester 2, N. Y.
GENERAL ELECTRIC CO., Apparatus Dept., Schnecktdy 5, N. Y. ADV. PG. 5 to 18.
 Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago 41, Ill.
 Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
ROTRON MFG. CO., INC., 7-9 Schoonmaker Lane, Woodstock, N. Y. ADV. PG. 260.
 Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.

FASTENERS & FASTENING DEVICES

ALLEN MFG CO., Hartford, Conn. ADV. PG. 80.
 Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
 Autoscrew Co., 216-222 W. 18th St., New York, N. Y.
BLAKE & JOHNSON CO., Waterville 48, Conn. ADV. PG. 223.
 Boots Aircraft Nut Corp., 50 John St., Stamford, Conn.
 Camloc Fastener Corp., 420 Lexington Ave., New York 17, N. Y.
 Cherry Rivet Co., 231 Winston St., Los Angeles 13, Calif.
CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
 Corbin Screw Div., American Hardware Corp., High, Myrtle & Grove Sts., New Britain, Conn.
 Dimco-Gray Co., 207 E. Sixth St., Dayton, Ohio.
 Dzus Fastener Co., Inc., Box 785, Babylon, N. Y.
FEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 Garrett Co., Inc., George K., D & Tioga Sts., Philadelphia 34, Pa.
 Grammes & Sons Inc., L. F., 389 Union St., Allentown 2, Pa.
 Greene Mfg. Corp., G. G., Warren, Pa.
 Harper Co., The, H. M., 8200 Lehigh Ave., Morton Grove, Ill.

Heli-Coil Corp., 47-23 35th St., Long Island City 1, N. Y.
 Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
 National Screw & Mfg. Co., Cleveland 4, Ohio.
PALNUT CO., INC., 77 Cordier St., Irvington 11, N. J. ADV. PG. 170.
 Parker-Kalon Corp., 200 Varick St., New York 14, N. Y.
 Penn Engineering & Mfg. Corp., Box 311, Doylestown, Pa.
 Pheoll Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
 Pilgrim Mfg. Co., 155 Chestnut St., Providence, R. I.
 Prestole Corp., 3119 Bellevue Rd., Toledo 6, Ohio.
 Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
 Russell, Burdall & Ward Bolt and Nut Co., Midland Ave., Port Chester, N. Y.
 Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
 Shakeproof Inc., Div. of Illinois Tool Works, 2501 N. Keeler Ave., Chicago 39, Ill.
 Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
 Stronghold Screw Products, Inc., 216-22 West Hubbard St., Chicago 10, Ill.
 Tinnerman Products, Inc., 2038 Fulton Rd., Cleveland 13, Ohio.
 United-Carr Fastener Corp., Cambridge 42, Mass.
 United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.
 United Shoe Machinery Corp., 142 Federal St., Boston, Mass.
 Waldeas Kohinoor Inc., 47-16 Austel Place, Long Island City 1, N. Y.

FELTS & FELT PARTS

Felters Co., The, 210 South St., Boston, Mass.
 National Gasket & Washer Mfg. Co., Inc., 124 E. 25th St., New York 10, N. Y.
 Western Felt Works, 4029 Ogden Ave., Chicago, Ill.

FERRITE CORES & SHIELDS

GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
 North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.

FIBRE

See **Insulation Materials**

FILTERS—Antenna

Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
BIRD ELECTRONIC CORP., 1800 E. 38th St., Cleveland 14, Ohio. ADV. PG. 184, 185.
CENTRAL LAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
 Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Collins Radio Co., Cedar Rapids, Iowa.
 Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
 Deuschman Corp., Tobe, 921 Providence Highway, Norwood, Mass.
ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
 Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
 K-V Transformer Co., 4414 Park Ave., New York 57, N. Y.
LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
 Lynnmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Orthon Corp., The, Electronic Div., 196 Albion Ave., Paterson 2, N. J.
 Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
 Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
 Television Equipment Corp., 238 William St., New York, N. Y.
VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

FILTERS—Band Elimination

Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
 Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
 American Transformer Co., 285 Emmet St., Newark, N. J.
 Audio Development Co., 2833 13th Ave., S., Minneapolis 7, Minn.

BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Collins Radio Co., Cedar Rapids, Iowa.
COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178.
 Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
DeCOURSEY ENGINEERING LAB., P. O. Box 235, Los Angeles 25, Calif. ADV. PG. 254.
 Deuschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
 Electron Mfg. Co., 4596 Elston Ave., Chicago, Ill.
ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
 Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
 Freed Transformer Co., Inc., 1736 Weirfield St., Brooklyn 27, N. Y.
GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
 Hyco Co., 11423 Vanowen St., North Hollywood, Calif.
 K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
 Kalbell Labs, Inc., 1076 Morena Blvd., San Diego 10, Calif.
KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135.
KROHN-HITE INSTRUMENT CO., 580 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 128.
 Lenkurt Electric Co., Inc., San Carlos, Calif.
 Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
 Lynch Co., F. W., 151 2nd St., San Francisco, Calif.
 Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 Meissner Mfg. Div., Maguire Industries Inc., Mt. Carmel, Ill.
 Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
 Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
 Orthon Corp., The, Electronic Div., 196 Albion Ave., Paterson 2, N. J.
 Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
 Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 Transformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif.
UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

FILTERS—Band Pass

Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
 Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
 Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 American Transformer Co., 285 Emmet St., Newark, N. J.
 Audio Development Co., 2833 13th Ave., S., Minneapolis 7, Minn.
BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
CHICAGO TRANSFORMER DIV., ESSEX WIRE CORP., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225.
CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Communication Accessories Co., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178.
 Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
DeCOURSEY ENGINEERING LAB., P. O. Box 235, Los Angeles 25, Calif. ADV. PG. 254.
 Deuschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
 Electron Mfg. Co., 4596 Elston Ave., Chicago, Ill.
ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
 Electronic Workshop, Inc., 351 Blecker St., New York 14, N. Y.
FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Gertsch Products, Inc., 11846 Mississippi Ave., Los Angeles 25, Calif.
- Ⓜ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- Ⓜ Hycor Co., 11423 Vanowen St., North Hollywood, Calif.
- Ⓜ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Ⓜ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- Ⓜ Kalbfell Labs., Inc., 1076 Morena Blvd., San Diego 10, Calif.
- Ⓜ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y.
- Ⓜ KROHN-HITE INSTRUMENT CO., 580 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 128.
- Ⓜ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓜ Lenkurt Electric Co., Inc., San Carlos, Calif.
- Ⓜ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓜ Lynch Co., F. W., 151 2nd St., San Francisco, Calif.
- Ⓜ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓜ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓜ Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- Ⓜ Orthon Corp., The, Electronic Div., 196 Albion Ave., Paterson 2, N. J.
- Ⓜ Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- Ⓜ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓜ SPENCER-KENNEDY LABS., INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- Ⓜ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
- Ⓜ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Horn St., Chicago 10, Ill.
- Ⓜ Transformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif.
- Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
- Ⓜ UNIVERSITY LOUDSPEAKERS, INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.
- Ⓜ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Ⓜ Western-Electro-Acoustic Labs., 621 S. Spring St., Los Angeles 14, Calif.

FILTERS, CRYSTAL

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- Ⓜ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓜ Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓜ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓜ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓜ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- Ⓜ Nebel Lab., R. E., 1104 Lincoln Place, Brooklyn 13, N. Y.
- Ⓜ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Ⓜ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓜ Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
- Ⓜ Valpey Crystals, Highland St., Holliston, Mass.
- Ⓜ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Ⓜ Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Ⓜ Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

FILTERS—Detonation

- Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.

FILTERS—Electric Wave Section

- Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
- Ⓜ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- Ⓜ Audio Development Co., 2833 13th Ave., S., Minneapolis 7, Minn.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓜ CHICAGO TRANSFORMER DIV., ESSEX WIRE CORP., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225.
- Ⓜ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178.
- Ⓜ DECOURSEY ENGINEERING LAB., P. O. Box 235, Los Angeles 25, Calif. ADV. PG. 254.
- Ⓜ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.

- Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓜ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓜ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135.
- Ⓜ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓜ Lenkurt Electric Co., Inc., San Carlos, Calif.
- Ⓜ Lynch Co., F. W., 151 2nd St., San Francisco, Calif.
- Ⓜ Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- Ⓜ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- Ⓜ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Ⓜ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓜ SPENCER-KENNEDY LABS., INC., 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- Ⓜ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
- Ⓜ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓜ Transformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif.
- Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
- Ⓜ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

FILTERS—Equalizer

- Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
- Ⓜ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- Ⓜ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓜ Astatic Corp., The, Conneaut, Ohio.
- Ⓜ Audio Equipment Sales, 153 W. 33rd St., New York 14, N. Y.
- Ⓜ Audio Instrument Co., 1947 Broadway, New York 23, N. Y.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Clarkstan Corp., 11927 S.W. Pico Blvd., Los Angeles 64, Calif.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ DECOURSEY ENGINEERING LAB., P. O. Box 235, Los Angeles 25, Calif. ADV. PG. 254.
- Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓜ Electronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
- Ⓜ Fairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
- Ⓜ GRAY RESEARCH & DEVELOPMENT CO., 16 Arbor St., Hartford 1, Conn. ADV. PG. 239.
- Ⓜ Hycor Co., 11423 Vanowen St., North Hollywood, Calif.
- Ⓜ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓜ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓜ GRAY RESEARCH & DEVELOPMENT CO., 16 Arbor St., Hartford 1, Conn. ADV. PG. 239.
- Ⓜ Hycor Co., 11423 Vanowen St., N. Hollywood, Calif.
- Ⓜ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135.
- Ⓜ Lenkurt Electric Co., Inc., San Carlos, Calif.
- Ⓜ Lynch Co., F. W., 151 2nd St., San Francisco, Calif.
- Ⓜ Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- Northeastern Engineering, Inc., Manchester, N. H.
- Ⓜ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
- Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- Ⓜ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓜ Transformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif.
- Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
- Ⓜ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

FILTERS—Lighting (for radio towers)

- Ⓜ Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓜ Gates Radio Co., Quincy, Ill.

- Ⓜ Johnson Co., E. F., Waseca, Minn.
- Ⓜ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.

FILTERS, MICROWAVE

- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓜ K-V Transformer Corp., 4414 Park Ave., New York 54, N. Y.
- Ⓜ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- Ⓜ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓜ Product Development Co., Inc., Arlington, N. J.
- Ⓜ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

FILTERS—Needle Scratch

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓜ Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓜ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178.
- Ⓜ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓜ Electronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
- Ⓜ Fairchild Recording Equipment Corp., 154 St. & 7th Avenue, Whitestone, N. Y.
- Ⓜ Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- Ⓜ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓜ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓜ Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
- Ⓜ Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Scott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.
- Ⓜ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.

FILTERS—Radio Interference

- Ⓜ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- Ⓜ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓜ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓜ CENTRALAB DIV., OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓜ Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
- Ⓜ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Ⓜ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
- Ⓜ Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
- Ⓜ Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓜ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- Ⓜ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn 57, N. Y. ADV. PG. 254, 264.
- Ⓜ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓜ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓜ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓜ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓜ Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.

V indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

- ⓪ Orthon Corp., The, Electronic Div., 196 Albion Ave., Paterson 2, N. J.
- ⓪ Potter Co., 1850 Sheridan Rd., No. Chicago, Ill.
- ⓪ Sprague Electric Co., North Adams, Mass.

FILTERS—Television

- ⓪ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ⓪ Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.
- ⓪ Celomat Corp., 521 W. 23rd St., New York, N. Y.
- ⓪ CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- ⓪ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
- ⓪ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- ⓪ Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
- ⓪ Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ House of Television Inc., 40 W. 4th St., New York 12, N. Y.
- ⓪ Hunton Plastics Co., 178 S. Van Brunt St., Englewood, N. J.
- ⓪ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- ⓪ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓪ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ⓪ Micro Metallic Corp., 193 Bradford St., Brooklyn, N. Y.
- ⓪ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- ⓪ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- ⓪ Orthon Corp., Electronic Division, 196 Albion Ave., Paterson 2, N. J.
- ⓪ Pioneer Scientific Corp., 295 Lafayette St., New York 12, N. Y.
- ⓪ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓪ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Thall Plastic Engineering Co., 155 Chambers St., New York, N. Y.
- ⓪ Transvision Inc., 460 North Ave., New Rochelle, N. Y.
- ⓪ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- ⓪ Visionette Co., 521 Fifth Ave., New York 17, N. Y.

FILTERS—uhf & vhf

- ⓪ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓪ Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- ⓪ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
- ⓪ Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
- ⓪ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
- ⓪ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- ⓪ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ⓪ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa. Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ⓪ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- ⓪ Orthon Corp., The, Electronic Div., 196 Albion Ave., Paterson 2, N. J.
- ⓪ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ⓪ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- ⓪ Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓪ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ⓪ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

FINISHES—Crystal

- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- ⓪ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓪ Polytech Devices, Inc., 1180 E. Grand St., Elizabeth, N. J.

FINISHES—Enamel

- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓪ Barrett Varnish Co., 1532 S. 50th Court, Cicero 50, Ill.
- ⓪ Dolph Co., John C., Monmouth Junction, N. J.
- ⓪ du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Egyptian Lacquer Mfg. Co., Lafayette, Md.
- ⓪ Franklin Paint & Varnish Co., Benjamin, 4820 Langdon St., Philadelphia 24, Pa.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- ⓪ Horn Co., Inc., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓪ Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.
- ⓪ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- ⓪ Schenectady Varnish Co., Schenectady, N. Y.
- ⓪ Sessions Clock Co., Forestville, Conn.
- ⓪ Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- ⓪ Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.

FINISHES—Lacquer

- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓪ Barrett Varnish Co., 1532 S. 50th Court, Cicero 50, Ill.
- ⓪ Dolph Co., John C., Monmouth Junction, N. J.
- ⓪ du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Egyptian Lacquer Mfg. Co., Lafayette, Ind.
- ⓪ Franklin Paint & Varnish Co., Benjamin, 4820 Langdon St., Philadelphia 24, Pa.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- ⓪ Horn Co., Inc., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
- ⓪ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓪ MICRO-CIRCUITS CO., New Buffalo, Mich. ADV. PG. 220.
- ⓪ Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.
- ⓪ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- ⓪ Sessions Clock Co., Forestville, Conn.
- ⓪ Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- ⓪ Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
- United Shoe Machinery Corp., 142 Federal St., Boston, Mass.

FINISHES—Luminous Materials

- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓪ Shannon Luminous Materials Co., 7356 Santa Monica Blvd., Hollywood 46, Calif.

FINISHES—Ripple

- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓪ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- ⓪ Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.

FINISHES—Varnish

- ⓪ Acme Wire Co., New Haven 14, Conn.
- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓪ Barrett Varnish Co., 1532 S. 50th Court, Cicero 50, Ill.
- ⓪ du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Egyptian Lacquer Mfg. Co., Lafayette, Ind.
- ⓪ Frankraft Paint & Varnish Co., Benjamin, 4820 Langdon St., Philadelphia 24, Pa.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- ⓪ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓪ New Wrinkle, Inc., 1819 Bankers Bldg., 105 W. Adams Ave., Chicago 3, Ill.
- ⓪ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- ⓪ Schenectady Varnish Co., Schenectady, N. Y.
- ⓪ Sessions Clock Co., Forestville, Conn.
- ⓪ Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- ⓪ Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.

FLEXIBLE SHAFT EQUIPMENT

See Machines

FLOCK & FLOCKED PAPER

- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓪ Behr-Manning Div. of Norton Co., Troy, N. Y.
- ⓪ Bestcraft Products, 14 Delancey St., New York, N. Y.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.

FLUORESCENT COMPOUNDS—Phosphors

- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓪ Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.
- ⓪ du Pont de Nemours & Co., E. I., Wilmington, Delaware.
- ⓪ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓪ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓪ Shannon Luminous Materials Co., 7356 Santa Monica Blvd., Hollywood 46, Calif.
- ⓪ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- ⓪ U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.
- ⓪ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

FLUOROMETERS

- ⓪ Coleman Instruments, Inc., 318 Madison St., Maywood, Ill.
- ⓪ Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- ⓪ Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- ⓪ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6 N. Y.

FLUX—Brazing Compounds

- American Solder & Flux Co., 2152 E. Norris St., Philadelphia 25, Pa.
- ⓪ Chase Brass & Copper Co., Inc., Waterbury 91 Conn.
- ⓪ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Eutetic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
- ⓪ Farrelloy Co., 1245 N. 26th St., Philadelphia 21, Pa.
- ⓪ GLASER LEAD CO., INC., 31 Wyckoff Ave., Brooklyn, N. Y. ADV. PG. 251.
- Goldsmith Bros. Smelting & Refining Co., 109 N. Wabash Ave., Chicago 2, Ill.
- ⓪ Handy & Harman, 82 Fulton St., New York 7, N. Y.
- ⓪ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- ⓪ Soldering Specialties Co., Summit, N. J.
- Special Chemicals Corp., 30 Irving Pl., New York 3, N. Y.
- ⓪ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

FLUX—Brazing & Soldering

- Ⓜ AMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- American Solder & Flux Co., 2152 E. Norris St., Philadelphia 25, Pa.
- Ⓜ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill. Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Eutetic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
- Ⓜ Farrelloy Co., 1245 N. 26th St., Philadelphia 21, Pa.
- Ⓜ GLASER LEAD CO., INC., 31 Wyckoff Ave., Brooklyn, N. Y. ADV. PG. 251.
- Ⓜ Handy & Harman, 82 Fulton St., New York 7, N. Y.
- Johnson Mfg. Co., Inc., Mt. Vernon, Iowa.
- Ⓜ Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- Ⓜ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓜ Soldering Specialties Co., Summit, N. J.
- Special Chemicals Corp., 30 Irving Pl., New York 3, N. Y.
- Ⓜ Superior Flux & Mfg. Co., 1302 Ontario St., Cleveland 13, Ohio.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

FLUX—Soldering

- Ⓜ Allen Co., Inc., L. B., 6751 Bryn Mawr Ave., Chicago 31, Ill.
- Ⓜ Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
- Ⓜ American Chemical Paint Co., Ambler, Pa.
- American Solder & Flux Co., 2152 E. Norris St., Philadelphia 25, Pa.
- Ⓜ Burnley Battery & Mfg. Co., Clay St., North East, Pa.
- Ⓜ Decimeter Inc., 1430 Market St., Denver 2, Colorado.
- Ⓜ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓜ Du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Eutetic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
- Ⓜ Farrelloy Co., 1245 N. 26th St., Philadelphia 21, Pa.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓜ GLASER LEAD CO., INC., 31 Wyckoff Ave., Brooklyn, N. Y. ADV. PG. 251.
- Johnson Mfg. Co., Inc., Mt. Vernon, Iowa.
- Ⓜ KESTER SOLDER CO., 4212 Wrightwood Ave., Chicago 33, Ill. ADV. PG. 267.
- Ⓜ Lenk Mfg. Co., 30 Cummington St., Boston 15, Mass.
- Ⓜ Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- Ⓜ Merck & Co., Inc., Rahway, N. J.
- Ⓜ MULTICORE SALES CORP., 164 Duane St., New York 13, N. Y. ADV. PG. 21.
- Ⓜ Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.
- Ⓜ Osborn Products, 475 Main St., Glen Elyn, Ill.
- Ⓜ Pfanstiehl Chemical Co., Metallurgical Div., 104 Lake View Ave., Waukegan, Ill.
- Ⓜ Ruby Chemical Co., 68 MacDowell St., Columbus, Ohio.
- Ⓜ Ryerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.
- Ⓜ Soldering Specialties Co., Summit, N. J.
- Special Chemicals Corp., 30 Irving Place, New York 3, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Superior Flux & Mfg. Co., 1302 Ontario St., Cleveland 13, Ohio.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

FLUXMETERS

- Ⓜ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓜ C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Ⓜ Rawson Electrical Instrument Co., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓜ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Ⓜ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓜ Varian Associates, 99 Washington St., San Carlos, Calif.

FOCUS COILS

See Coils, Television Focusing

FORKS—Electrically Driven Tuning

- Ⓜ Acme Telechron Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- Ⓜ AMERICAN TIME PRODUCTS, INC., 580 Fifth Ave., New York 19, N. Y. ADV. PG. 60.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Gaertner Scientific Corp., 1201 Wrightwood Ave., Chicago 14, Ill.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Macleod & Hanopol, Joiner St., Charlestown 29, Mass.
- Ⓜ MUIRHEAD CO., INC., Beckenham-Kent-England. ADV. PG. 71.
- Ⓜ PHILAMON LABORATORIES, 5717 Third Ave., Brooklyn 20, N. Y. ADV. PG. 84.
- Ⓜ Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- Ⓜ TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.
- Ⓜ Varo Mfg. Co., Inc., Box 638, Garland, Texas.

FORMS—Antenna

- Electronic Mechanics, Inc., 70 Clifton Blvd., Clifton, N. J.
- Ⓜ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Ⓜ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.

FORMS—Coil

See Also Bobbins

- Ⓜ ACCURATE PAPER TUBE CO., 851 N. Noble St., Chicago 22, Ill. ADV. PG. 268.
- Ⓜ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓜ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Ⓜ AMERICAN MOLDED PRODUCTS CO., 1644 N. Honore St., Chicago 22, Ill. ADV. PG. 263.
- Ⓜ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓜ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
- Ⓜ Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓜ Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
- Ⓜ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- CENTRALAB DIV. of Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓜ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Ⓜ CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓜ Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
- Ⓜ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Electronic Mechanics, Inc., 70 Clifton Blvd., Clifton, N. J.
- Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- Ⓜ Insulating Tube Co., 26 Cottage St., P. O. Box 1, Poughkeepsie, N. Y.
- Ⓜ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓜ Kirchberger & Co., Inc., M., 1425 37th St., Brooklyn 18, N. Y.
- Ⓜ Mayfair Molded Products Corp., 4440 N. Elston Ave., Chicago 30, Ill.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
- Ⓜ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓜ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓜ MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓜ NATIONAL MOLDITE CO., 1410 Chestnut Ave., Hillside 5, N. J. ADV. PG. 200.
- Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Ⓜ PRECISION PAPER TUBE CO., 2033 W. Charleston St., Chicago 47, Ill. ADV. PG. 215.
- Printloid Inc., 95 Mercer St., New York, N. Y.
- Ⓜ Quality Components, Inc., St. Marys, Pa.
- Ⓜ Speer Resistor Corp., St. Marys, Pa.
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓜ Stevens Products Inc., 86-88 Main St., East Orange, N. J.
- Ⓜ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- Ⓜ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- Ⓜ Taylor Fibre Co., Norristown, Pa.
- Ⓜ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- Ⓜ Waterbury Companies, Inc., Waterbury 90, Conn.

FORMS—Resistor

- Ⓜ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- Ⓜ CENTRALAB, Div. of Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓜ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Electronic Mechanics, Inc., 70 Clifton Blvd., Clifton, N. J.
- Ⓜ INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- Ⓜ Kirchberger & Co., Inc., M., 1425 37th St., Brooklyn 18, N. Y.
- Ⓜ Louthan Mfg. Co., East Liverpool, Ohio.
- Ⓜ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓜ MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- Ⓜ Speer Resistor Corp., St. Marys, Pa.
- Ⓜ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- Ⓜ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.

FORMS—Wire

- Accurate Spring Mfg. Co., 3811 W. Lake St., Chicago, Ill.
- Ⓜ ART WIRE & STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
- Ⓜ Barnes-Gibson-Raymond Div. of Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.
- Ⓜ Carboly Company Inc., 11139 E. Eight Mile Blvd., Detroit 32, Mich.
- Ⓜ Cuyahoga Spring Co., 10272 Berea Rd., Cleveland, Ohio.
- Ⓜ Grammes & Sons Inc., L. F., 389 Union St., Allentown 2, Pa.
- Ⓜ Hubbard Spring Co., M. D., Central Ave., Pontiac, Mich.
- Ⓜ Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
- Ⓜ Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
- Ⓜ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- Ⓜ WEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.
- Ⓜ Wickwire Spencer Steel Div., The Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y.

FREQUENCY STANDARDS

See Standards—Frequency

FURNACES—High Frequency

- Ⓜ Ajax Electrothermic Corp., Ajax Park, Trenton 5, N. J.
- Ⓜ Allis Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
- Ⓜ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ High Frequency Heating Co., 143 Glen Park Ave., Gary, Ind.
- Ⓜ Lepel High Frequency Labs., Inc., 39 W. 60th St., New York 23, N. Y.
- Ⓜ Sherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
- Weltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.

FUSE HOLDERS

See Blocks

FUSES

- Ⓜ Bel Fuse Inc., 311 Mountain Road, Union City, N. J.
- Ⓜ BUSSMANN MFG. CO., St. Louis 7, Mo. ADV. PG. 82.
- Ⓜ CHATHAM ELECTRONICS CORP., 475 Washington St., Newark 2, N. J. ADV. PG. 126.
- Ⓜ Economy Fuse & Mfg. Co., 2717 Greenview Ave., Chicago 14, Ill.
- Ⓜ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Jefferson Electric Co., Bellwood, Ill.
- Ⓜ LITTEL FUSE, INC., 4757 Ravenswood Ave., Chicago 40, Ill. ADV. PG. 164.
- Ⓜ Trico Fuse Mfg. Co., 2948 N. Fifth, Milwaukee 12, Wis.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

GAGES—Comparator

- Ⓜ Engineers Specialties Div., Universal Engraving & Colorplate Co., 980 Ellicott St., Buffalo 9, N. Y.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Metron Instrument Co., 432 Lincoln St., Denver 9, Colo.
- Scherr Co., Inc., Geo., 200 Lafayette St., New York 12, N. Y.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⊙Stevens-Arnold Inc., 22 Elkins St., South Boston 27, Mass.
- ⊙U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.

GAGES—Displacement Measuring

- ⊙Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⊙BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- ⊙GULTON MFG. CORP., Metuchen, N. J. ADV. PG. 262.
- ⊙INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- ⊙Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- ⊙Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- ⊙Schaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- ⊙Statham Laboratories, Inc., 9328 Santa Monica Blvd. Beverly Hills, Calif.
- ⊙Technology Instrument Corp., 1053 Main St., Waltham 54, Mass.

GAGES—Electronic Fuel Indicator

- ⊙Air Associates, Inc., Teterboro, N. J.
- ⊙GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⊙Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

GAGES—Electronic Inspection

- ⊙AIRCRAFT ELECTRONICS ASSOCIATES INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- ⊙ARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
- ⊙Branson Instruments, Inc., 438 Fairfield Ave., Stamford, Conn.
- ⊙Electronic Control Corp., 1573 E. Forest Ave., Detroit, Mich.
- ⊙GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⊙INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- ⊙Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- Scherr Co., Inc., George, 200 Lafayette St., New York 12, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⊙Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⊙Stevens-Arnold Inc., 22 Elkins St., South Boston 27, Mass.
- ⊙Tracerlab, Inc., 130 High St., Boston 10, Mass.

GAGES—Electronic Spring Checking

- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

GAGES—Ionization

- ⊙Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd., W. Rochester 3, N. Y.
- ⊙Eitel-McCullough, Inc., San Bruno, Calif.
- ⊙Electronic Brazing Co., 146 Glenridge Ave., Montclair, N. J.
- ⊙Fredericks Co., Geo. E., Bethayres, Pa.
- ⊙Litton Industries, San Carlos, Calif.
- ⊙Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ⊙National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- ⊙National Union Radio Corp., 350 Scotland Rd., Orange, N. J.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- ⊙RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⊙Radioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⊙WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

GAGES—Paint Depth

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- ⊙Branson Instruments, Inc., 438 Fairfield Ave., Stamford, Conn.
- ⊙Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- ⊙Gardner Lab., Inc., Henry A., 4723 Elm St., Bethesda 14, Md.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⊙Tracerlab, Inc., 130 High St., Boston 10, Mass.

GAGES—Photoelectric Dimension

- ⊙Electronic Control Corp., 1573 E. Forest Street, Detroit, Mich.
- ⊙GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⊙Industrial Electronics Co., Inc., Hanover, Mass.
- ⊙Photobell Company, 116 Nassau St., New York 7, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⊙Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

GAGES—Pirani

- ⊙Continental Electric Co., Geneva, Ill.
- ⊙Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd., W. Rochester 3, N. Y.
- Electronic Brazing Co., 146 Glenridge Ave., Montclair, N. J.
- ⊙Fredericks Co., Geo. E., Bethayres, Pa.
- ⊙Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ⊙Precision Resistor Co., 334 Badger Ave., Newark 8, N. J.
- ⊙RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

GAGES—Pressure

- Airplane & Marine Instruments, Inc., Clearfield, Pa.
- ⊙Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⊙Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ⊙Baldwin Locomotive Works, Philadelphia 42, Pa.
- ⊙Clarkstan Corp., 11927 SW Pico Blvd., Los Angeles 64, Calif.
- ⊙Control Engineering Corp., 863 Washington St., Canton, Mass.
- ⊙Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.
- ⊙ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- ⊙Electric Auto-Lite Co., The, Toledo 1, Ohio.
- ⊙Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ⊙FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ⊙GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⊙GRAY RESEARCH & DEVELOPMENT CO., 16 Arbor St., Hartford 1, Conn. ADV. PG. 239.
- ⊙Hastings Instrument Co., Box 1275, Hampton, Va.
- ⊙Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- ⊙INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Michigan. ADV. PG. 255.
- ⊙Livingston Electronic Corp., Livingston, N. J.
- ⊙Manning, Maxwell & Moore, Inc., Stratford, Conn.
- ⊙Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- ⊙Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⊙Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Sierra Electronic Corp., San Carlos, Calif.
- ⊙Statham Laboratories, Inc., 9328 Santa Monica Blvd., Beverly Hills, Calif.
- ⊙Trans-Sonics, Inc., Bedford Airport, Bedford, Mass.
- ⊙U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- ⊙Wallace & Tiernan Products Inc., Belleville, 9, N. J.

GAGES—Strain

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- ⊙Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⊙Baldwin Locomotive Works, Philadelphia 42, Pa.
- ⊙Control Engineering Corp., 863 Washington St., Canton, Mass.
- ⊙Dillon & Co., Inc., W. C., 5410 Harrison St., Chicago 44, Ill.
- ⊙Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colorado.
- ⊙INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- ⊙Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue S., Minneapolis, Minn.
- ⊙MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- ⊙North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⊙Statham Laboratories, Inc., 9328 Santa Monica Blvd., Beverly Hills, Calif.

GAGES—Ultrasonic Thickness

- Branson Instruments, Inc., 438 Fairfield Ave., Stamford, Conn.
- Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
- ⊙Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⊙SPERRY PRODUCTS, INC., Danbury, Conn. ADV. PG. 54.

GAGES—Vacuum

- ⊙Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⊙Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ⊙Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- ⊙Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- ⊙Continental Electric Co., Geneva, Ill.
- ⊙Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd., W. Rochester 3, N. Y.
- Electronic Brazing Co., 146 Glenridge Ave., Montclair, N. J.
- ⊙Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ⊙Fredericks Co., Geo. E., Bethayres, Pa.
- ⊙GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⊙Hastings Instrument Co., Box 1275, Hampton, Va.
- ⊙Haydu Brothers, Plainfield N. J.
- ⊙Litton Industries, San Carlos, Calif.
- ⊙Manning, Maxwell & Moore, Inc., Stratford, Conn.
- ⊙Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ⊙Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue S., Minneapolis, Minn.
- ⊙National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- Nurnberg Thermometer Co., Inc., 4 Corey St., Boston 32, Mass.
- ⊙RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⊙Skaneateles Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
- ⊙U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- ⊙Wallace & Tiernan Products, Inc., Belleville 9, N. J.
- ⊙Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

GALVANOMETERS

- ⊙Assembly Products, Inc., Chagrin Falls 6, Ohio.
- ⊙Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- ⊙Berndt-Bach, Inc., 7377 Beverly Rd., Los Angeles 36, Calif.
- ⊙CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- ⊙Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⊙Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- ⊙Edin Electronics Co., 207 Main St., Worcester, Mass.
- Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
- ⊙G-M LABORATORIES, INC., 4313 No. Knox Ave., Chicago. Ill. ADV. PG. 142.
- ⊙GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⊙Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- ⊙HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
- ⊙J B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ⊙Leeds & Northrup Co., 3970 Stenton Ave., Philadelphia 44, Pa.
- ⊙MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ⊙Maurer, Inc., J. A., 37-01 31st St., Long Island City, N. Y.
- ⊙Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ⊙Miller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⊙MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- ⊙RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- ⊙Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- ⊙SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- ⊙Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- ⊙Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- ⊙Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ⊙Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- ⊙WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

GASES—Nitrogen

Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 Lindel Air Products Co., Unit of Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.

GASES—Rare

Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 Haydu Brothers, Plainfield, N. J.
 Lindel Air Products Co., Unit of Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
 WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

GASKETS

Armstrong Cork Co., Lancaster, Pa.
 ATLANTIC INDIA RUBBER WORKS, INC., 571 W. Polk St., Chicago 7, Ill. ADV. PG. 271.
 Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
 Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Crane Packing Co., 1800 Cuyler Ave., Chicago 18, Ill.
 Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd. W., Rochester 3, N. Y.
 Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
 Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
 Felters Co., 210 South St., Boston, Mass.
 Garlock Packing Co., Palmyra, N. Y.
 Garrett Co., Inc., George K., D & Tioga Sts., Philadelphia 34, Pa.
 General Tire & Rubber Co., The, Silentbloc Div., Wabash, Ind.
 Lamico Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
 National Gasket & Washer Mfg. Co., Inc., 124 E. 25th St., New York 10, N. Y.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
 Printloid, Inc., 95 Mercer St., New York, N. Y.
 Taylor Fibre Co., Norristown, Pa.
 U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
 Western Felt Works, 4029 Ogden Ave., Chicago, Ill.
 Willard's, Hampden, Mass.

GEARS—Precision

Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
 Air Associates, Inc., Teterboro, N. J.
 American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
 Ampex Division, Chrysler Corp., Detroit 31, Mich.
 Arch Gear Works, Inc., Quincy, Mass.
 Beaver Gear Works, Inc., 1038 Parmele St., Rockford, Ill.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Foote Brothers Gear & Machine Corp., 4545 S. Western Blvd., Chicago 9, Ill.
 FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., Long Island City, N. Y. ADV. PG. 278.
 Gear Specialties, 2635 W. Medill Ave., Chicago 47, Ill.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
 Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 QUAKER CITY GEAR WORKS, 1908-32 N. Front St., Philadelphia, Pa. ADV. PG. 272.
 Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
 Shakeproof, Inc., Div. of Illinois Tool Wks., 2501 N. Keeler Ave., Chicago 39, Ill.
 Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
 VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

GENERATORS—Electronic Variable Frequency

Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
 American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
 BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
 Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.

Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Collins Radio Co., Cedar Rapids, Iowa.
 Communication Measurements Lab., Inc., 120 Greenwich St., New York, N. Y.
 Daven Co., 191 Central Ave., Newark 4, N. J.
 Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.
 ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 Feller Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
 GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
 Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
 KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
 M B MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.
 Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
 MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
 Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
 Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Phillips Petroleum Co., Special Products Div., Bartlesville, Okla.
 RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
 Simpson Electric Co., Div. American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
 Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
 SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
 Stencil Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
 Varo Mfg. Co., Inc., Box 638, Garland, Texas.
 Weltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.

GENERATORS—Electronic Wave

American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
 BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
 Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Collins Radio Co., Cedar Rapids, Iowa.
 GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
 Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
 KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
 Philbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
 Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
 SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
 Wappler, Inc., 27 W. 24th St., New York 10, N. Y.

GENERATORS—Gas-Engine Driven

Buda Co., The, Harvey, Ill.
 Columbia Electric Mfg. Co., 4519 Hamilton Ave., N. E., Cleveland 14, Ohio.
 Continental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.
 Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio.
 Electric Specialty Co., 211 South St., Stamford, Conn.
 Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
 Hertzner Electric Co., 12690 Elmwood Ave., Cleveland, Ohio.
 Homelite Corp., Port Chester, N. Y.
 Kato Engineering Co., 1415 First Ave., Mankato, Minn.
 Leland Electric Co., The, 1501 Webster St., Dayton 1, Ohio.
 Midco Mfg. & Distributing Co., S. 13th & Kentucky Ave., Sheboygan, Wis.
 Motoresearch Co., 1600 Junction Ave., Racine, Wis.

Onan & Sons, Inc., D. W., 3264 Royalston Ave., Minneapolis 5, Minn.
 Pioneer Electric Co., 3700 E. Olmlypic Blvd., Los Angeles 23, Calif.
 Pioneer Gen-E-Motor Corp., 5841 W. Dickens Ave., Chicago 39, Ill.
 Ready Power Co., The Power Plant Div., 11231 Freud Ave., Detroit 14, Mich.

GENERATORS—Hand Driven

Burke Electric Co., 12th & Cranberry Sts., Erie, Pa.
 CARTER MOTOR CO., 2646 N. Maplewood Ave., Chicago 47, Ill. ADV. PG. 192.
 Continental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.

GENERATORS—Harmonic Frequency

American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
 BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
 KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
 LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
 Lorain Products Corp., 1122 F St., Lorain, Ohio.
 Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
 Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 Monitor Products Co., 815 Fremont St., So. Pasadena, Calif.
 NORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
 Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
 REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

GENERATORS—Induction and Dielectric Heating

See Heating, Electronic

Ajax Electrothermic Corp., Ajax Park, Trenton 5, N. J.
 Allis Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
 BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ecco High Frequency Corp., 7020 Hudson Blvd., North Bergen, N. J.
 Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Haydu Brothers, Plainfield, N. J.
 High Frequency Heating Co., 143 Glen Park Ave., Gary, Ind.
 Lepel High Frequency Labs., Inc., 39 W. 60th St., New York 23, N. Y.
 Ohio Crankshaft Co., Tocco Div., 3800 Harvard Ave., Cleveland 11, Ohio.
 RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Sherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
 Weltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.
 Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif.

GENERATORS—Motor

Air Associates, Inc., Teterboro, N. J.
 Allis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
 Allis Co., Louis, 427 E. Stewart St., Milwaukee 7, Wis.
 American Electric Motors, Inc., Los Angeles, Calif.
 Ampex Electric Corp., 1155 Howard Ave., San Carlos, Calif.
 Bogue Electric Mfg. Co., 52 Iowa Ave., Paterson, N. J.
 Burke Electric Co., 12th & Cranberry Sts., Erie, Pa.
 CARTER MOTOR CO., 2646 Maplewood Ave., Chicago 47, Ill. ADV. PG. 192.
 Century Electric Co., 1806 Pine St., St. Louis 3, Mo.
 Columbia Electric Mfg. Co., 4519 Hamilton Ave., N. E., Cleveland 14, Ohio.
 Continental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.

(V) indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

- Ⓞ Diehl Mfg. Co., 1129 Finnerne Ave., Somerville, N. J.
- Ⓞ EASTERN AIR DEVICES, INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- Ⓞ Eicor Inc., 1501 W. Congress St., Chicago 7, Ill.
- Ⓞ ELECTRIC INDICATOR CO., 21 Parker Ave., Stamford, Conn. ADV. PG. 160.
- Ⓞ Electric Products Co., 1725 Clarkstone Road, Cleveland 12, Ohio.
- Ⓞ Electric Specialty Co., 211 South St., Stamford, Conn. Electro-Aire, Inc., 11439 Vanowen St., North Hollywood, Calif.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
- Ⓞ Gothard Mfg. Co., 2110 Clear Lake Ave., Springfield, Ill.
- Ⓞ Great Lakes Electric Mfg. Co., 17 S. Desplaines St., Chicago 6, Ill.
- Ⓞ Hertner Electric Co., 12690 Elmwood Ave., Cleveland 11, Ohio.
- Ⓞ Janette Mfg. Co., 556 W. Monroe St., Chicago 6, Ill.
- Ⓞ Kato Engineering Co., 1415 First Ave., Mankato, Minn.
- Ⓞ KOLLSMAN INSTRUMENT DIV. OF SQUARE D CO., 80-08 45th Ave., Elmhurst, N. Y. ADV. PG. 118.
- Ⓞ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓞ LELAND ELECTRIC CO., The, 1501 Webster St., Dayton 1, Ohio. ADV. PG. 246, 247.
- Ⓞ Motoresearch Co., 1600 Junction Ave., Racine, Wis.
- Ⓞ Ohio Crankshaft Co., Tocco Div., 3800 Harvard Ave., Cleveland 1, Ohio.
- Ⓞ Pioneer Electric Co., 3700 E. Olympic Blvd., Los Angeles 23, Calif.
- Ⓞ Pioneer Gen-E-Motor Corp., 5841 W. Dickens Ave., Chicago 39, Ill.
- Ⓞ RED BANK DIVISION, Bendix Aviation Corp., Red Bank, N. J. ADV. PG. 61, 127.
- Ⓞ Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield 99, Ohio.
- Ⓞ Star-Kimble Electric Co., 200 Bloomfield Ave., Bloomfield, N. J.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

GENERATORS—Pulse

- Ⓞ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ Berkeley Scientific Co., Richmond, Calif.
- Ⓞ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓞ ELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.
- Ⓞ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓞ General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓞ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓞ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓞ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓞ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Ⓞ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓞ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Ⓞ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓞ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓞ Radar Engineers, 110 University St., Seattle 1, Wash.
- Ⓞ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ Tel Instrument Co., Inc., 50 Paterson Ave., East Rutherford, N. J.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓞ Wilmette Inc., Raymond M., 1469 Church St., N. W., Washington 5, D. C.

GENERATORS—Ultrasonic

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓞ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓞ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- Ⓞ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- Ⓞ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 239.
- FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.

- Ⓞ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓞ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- Ⓞ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓞ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Ⓞ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓞ Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- Ⓞ Piezo Products Co., Whitney St., Framingham, Mass.
- Ⓞ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓞ Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
- Ⓞ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Ⓞ Valpey Crystals, Highland St., Holliston, Mass.
- Ⓞ Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

GENERATORS—Winddriven Generating Equipment

- Ⓞ Wincharger Corp., E. 7th & Division Sts., Sioux City, Iowa.
- Ⓞ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R.R., West Chester, Pa.

GENERATORS, SIGNAL—a-f

- Ⓞ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓞ American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓞ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓞ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ Clarkstan Corp., 11927 SW. Pico Blvd., Los Angeles 64, Calif.
- Ⓞ Clough Brengle Co., 6014 N. Broadway, Chicago, Ill.
- Ⓞ Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- Ⓞ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓞ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓞ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Ⓞ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓞ Electronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
- Ⓞ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓞ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓞ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓞ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓞ Marconi Instruments Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓞ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Ⓞ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- Ⓞ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Ⓞ Philbrick Researches Inc., George A., 230 Congress St., Boston 10, Mass.
- Ⓞ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓞ Premier Crystal Labs, Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Ⓞ Radio City Products Co., Inc., 152 W. 25th St., New York, N. Y.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Ⓞ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓞ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ Triumph Mfg. Co., 913 Van Buren St., Chicago 7, Ill.
- Ⓞ Weinschel Engineering Co., 123 William St., New York 7, N. Y.

GENERATORS, SIGNAL—f-m

- Ⓞ American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓞ BOONTON RADIO CORP., Boonton, N. J. ADV. PG. 107.
- Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- Ⓞ Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- Ⓞ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Ⓞ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 274.
- Ⓞ Ferris Instrument Co., 110 Cornelia St., Boonton, N. J.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓞ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- Ⓞ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓞ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓞ McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓞ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓞ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Ⓞ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓞ Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- Ⓞ Premier Crystal Labs, Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Ⓞ Radio City Products Co., Inc., 152 W. 25th St., New York, N. Y.
- Ⓞ Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Ⓞ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓞ SPERRY GYROSCOPE CO., Div. of the Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓞ Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ Triplett Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.

GENERATORS, SIGNAL—r-f

- Ⓞ Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- Ⓞ American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- Ⓞ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ BOONTON RADIO CORP., Boonton, N. J. ADV. PG. 107.
- Ⓞ Clough Brengle Co., 6014 N. Broadway, Chicago, Ill.
- Ⓞ Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- Ⓞ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓞ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓞ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓞ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓞ Douglas Radio Labs., 40 Wayland St., Boston 25, Mass.
- Ⓞ Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- Ⓞ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia, 33, Pa. ADV. PG. 238.
- Ⓞ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Ⓞ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓞ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- Ⓞ Ferris Instrument Co., 110 Cornelia St., Boonton, N. J.
- Ⓞ General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓞ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓞ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- Ⓞ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓞ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓞ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓞ McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓞ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.

① indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ① MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- ① Oak Ridge Products Mfg. Div. of Video Television Inc., 239 E. 127th St., New York 35, N. Y.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- ① Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- ① Radio City Products Co., Inc., 152 W. 25th St., New York, N. Y.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① Reiner-Electronics Co., 152 W. 25th St., New York, N. Y.
- ① Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- ① SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- ① Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ① Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

GENERATORS, SIGNAL—shf

- ① American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- ① BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ① Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- ① ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ① Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- ① Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- ① Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ① KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- ① POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

GENERATORS, SIGNAL—Sweeping

- ① Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.
- ① Clarkstan Corp., 11927 S. W., Pico Blvd., Los Angeles 64, Calif.
- ① Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- ① Corsor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- ① ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ① ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ① ELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.
- ① Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- ① HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- ① HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ① Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- ① KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ① Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ① Marconi Instrument Ltd., 23 Beaver St., New York 4, N. Y.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ① Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- ① Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- ① Radio City Products Co., Inc., 152 W. 25th St., New York 1, N. Y.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

- ① Reiner Electronic Co., 152 W. 25th St., New York 1, N. Y.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ① Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- ① SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- ① Tel-Instrument Co., Inc., 50 Paterson Ave., East Rutherford, N. J.
- ① WATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.

GENERATORS, SIGNAL—Television Synchronizing

- ① ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ① ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ① Federal Engineering Co., 37 Murray St., New York 7, N. Y.
- ① Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ① Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- ① Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- ① MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- ① Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- ① Telegrip Radio Co., 1901 S. Washtenaw, Chicago, Ill.
- ① Television Equipment Corp., 238 William St., New York 7, N. Y.
- ① Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.
- ① Tel-Instrument Co., Inc., 50 Paterson Ave., East Rutherford, N. J.

GENERATORS, SIGNAL—uhf


- ① AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- ① American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- ① BROWNING LABS., INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
- ① Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- ① ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ① Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- ① Ferris Instrument Co., 110 Cornelia St., Boonton, N. J.
- ① General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ① LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- ① Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ① McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- ① Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ① MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- ① POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ① Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5408 W. Kinzie St., Chicago 44, Ill.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ① Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- ① Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

GENERATORS, SIGNAL—vhf

- ① Airborne Instruments Lab., Inc., 160 Old Country Road, Mineola, N. Y.
- ① American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ① BOONTON RADIO CORP., Boonton, N. J. ADV. PG. 107.
- ① Collins Radio Co., Cedar Rapids, Iowa.
- ① Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- ① ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ① Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- ① Ferris Instrument Co., 110 Cornelia St., Boonton, N. J.
- ① General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- ① KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ① LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- ① Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ① McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- ① Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ① MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- ① Oak Ridge Products Mfg. Div. of Video Television Inc., 239 E. 127th St., New York 35, N. Y.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ① Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5408 W. Kinzie St., Chicago 44, Ill.
- ① Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- ① Tel Instrument Co., Inc., 50 Paterson Ave., East Rutherford, N. J.
- ① Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

GENERATORS—Square Wave

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ① BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ① Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- ① Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① DuMont Laboratories, Inc., Allen B., Instrument Div., 1000 Main Ave., Clifton, N. J.
- ① ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ① EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ① FLADER INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① Globe Products Corp., P. O. Box 197, Southport, Conn.
- ① HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- ① KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ① LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- ① Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ① Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ① MEASUREMENTS CORP., Boonton, New Jersey. ADV. PG. 145.
- ① Philbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
- ① POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

 indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

OSPERY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
 ①Elektronix, Inc., 712 S. E. Hawthorne Blvd., Portland 14, Ore.

GEOPHYSICAL APPARATUS

①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 ①CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Oklahoma. ADV. PG. 237.
 ①Daven Co., 191 Central Ave., Newark 4, N. J.
 ①Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
 ①Engineering Research Corp., Shreveport, La.
 ①Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
 Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.
 ①Hastings Instrument Co., Box 1275, Hampton, Va.
 ①Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
 ①Hogan Laboratories, Inc., 155 Perry St., New York 14, N. Y.
 ①KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
 ①Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
 ①Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
 ①Varo Mfg. Co., Inc., Box 638, Garland, Texas.
 ①Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

GETTERS

See Tube Parts

GLASS

See Insulation Materials

GLASS BONDED MICA

See Insulation Materials

GLASS FIBRE

See Insulation Materials

GLASS—Metal-to-Glass Seals

See SEALS—Metal-to-Glass

GRAPHIC RECORDING INSTRUMENTS

See Instruments, Graphic Recording

GRAPHITE—Colloidal

①Acheson Colloids Corp., Port Huron, Mich.
 ①GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 ①Grafo Colloids Corp., Sharon, Pa.
 Superior Flake Graphite Co., 33 S.-Clark St., Chicago 3, Ill.

GRIDS AND GRID SUPPORTS

See Tube Parts

GRILLES—Metal

①Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
 ①Barber-Colman Co., Rockford, Ill.
 ①Bestcraft Products, 14 Delancey St., New York, N. Y.
 ①Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
 ①Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
 ①Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
 ①INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 ①MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
 REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
 ①Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
 ①Wickwire Spencer Steel Div., The Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y.

GRILLES—Molded Plastic

American Communications Corp., 306 Broadway, New York 7, N. Y.
 American Insulator Corp., New Freedom, Pa.
 Boonton Molding Co., Boonton, N. J.
 ①Chicago Die Mold Mfg. Co., 4001 Wrightwood Ave., Chicago 39, Ill.
 ①Emeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.
 Felsenthal & Sons, Inc. G., 4100 W. Grand Ave., Chicago 51, Ill.
 Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.

Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
 ①Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 ①RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
 Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
 ①Waterbury Companies, Inc., Waterbury 90, Conn.

GRILLES—Speaker

①Cinaudagraph Speakers Inc., Div. of Aireon Mfg. Corp., 1401 Fairfax Trafficway, Kansas City, Kansas.
 Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.

GROMMETS

①AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 ①AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
 ①ATLANTIC INDIA RUBBER WORKS, INC., 571 W. Polk St., Chicago 7, Ill. ADV. PG. 271.
 Beach Precision Parts Co., Boonton, N. J.
 Carby Mfg. Co., Inc., 62 Cottage Place, Waterbury 5, Conn.
 ①Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
 ①Dzus Fastener Co., Inc., Box 785, Babylon, N. Y.
 ①FEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 ①GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 ①General Tire & Rubber Co., The, Silentbloc Div., Washburn, Ind.
 ①INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 ①J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 ①Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
 ①Lamcooid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 ①Mayfair Molded Products Corp., 4440 N. Elston Ave., Chicago 30, Ill.
 ①Mykroy Inc., Arlington Heights Airport, Arlington Heights, Ill.
 ①Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
 ①Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
 ①Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
 ①Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 ①Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
 ①United Carr Fastener Corp., Cambridge 42, Mass.
 ①U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
 ①United Shoe Machinery Corp. 142 Federal St., Boston, Mass.
 ①Vallorbs Jewel Co., Lancaster, Pa.
 ①Waterbury Companies, Inc., Waterbury 90, Conn.

GROMMETS—Fibre

Beach Precision Parts Co., Boonton, N. J.
 Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 ①Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Delaware.
 ①FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 ①GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 ①Lamcooid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 ①NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
 Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
 ①Taylor Fibre Co., Norristown, Pa.

GUIDES—Coil Wind

①AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
 ①Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
 ①Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

HARNESSES—Wire

See Also Cable Assemblies

Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
 ①ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 American Communications Corp., 306 Broadway, New York 7, N. Y.
 ①AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
 ①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.

①Belden Mfg. Co., 4649 W. Van Buren St., Chicago 44, Ill.
 ①Branston Electric Mfg. Co., Inc., 62-65 Gill Pl., Buffalo 22, N. Y.
 ①Carol Cable Co., 190 Middle St., Pawtucket, R. I.
 ①Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 ①Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
 ①Connecticut Telephone & Electric Div., Great American Industries Inc., 70 Britannia St., Meriden, Conn.
 ①Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
 ①CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
 ①Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
 ①Eastern Specialty Co., Philadelphia 40, Pa.
 Eby Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
 ①Electric Auto-Lite Co., The, Toledo 1, Ohio.
 ①ELECTRO-WIRE SERVICE, 5 Beekman St., New York 7, N. Y. ADV. PG. 269.
 Electronic Brazing Co., 146 Glenridge Ave., Montclair, N. J.
 ①Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
 ①Etraco Mfg. Co., Inc., Woods Church Rd., Flemington, N. J.
 ①Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City 1, N. Y.
 ①Haft & Sons, Inc., 79 Third St., Brooklyn 31, N. Y.
 ①Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 ①Industrial Electronics Co., Inc., Hanover, Mass.
 ①INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 ①J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 ①Kulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
 Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
 Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 ①Pacific Electriccord Co., P. O. 1260, Beverly Hills, Calif.
 ①Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
 ①PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
 ①Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
 ①Product Development Co., Inc., Arlington, N. J.
 Reiser Mfg. Co., Hagerstown, Md.
 ①Scintilla-Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
 Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S. Pasadena, Calif.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
 Star Measurements Co., 442 E. 166th St., New York 56, N. Y.
 ①SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
 Taybern Equipment Co., Inc., 120 Greenwich St., New York 6, N. Y.
 ①Wade Electric Products Co., 211 Jacob St., Sturgis, Mich.
 ①Whittaker Cable Corp., Kansas City 16, Mo.
 ①Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

HEADPHONES & HEADSETS

American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
 ①AVIOMETER DIV. of Roanwell Corp., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
 ①Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
 ①BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
 ①Cannon Co., C. F., Springfield, N. Y.
 ①Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
 ①Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
 ①Maurer, Inc., J. A., 37-01 31st St., Long Island City, N. Y.
 ①Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
 ①Murdock Mfg. Co., Wm. J., Chelsea, Mass.
 ①Permoflux Corp., 4900 W. Grand Ave., Chicago 39, Ill.
 ①Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
 ①Speak-0-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
 ①Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Taybern Equipment Co. Inc., 120 Greenwich St., New York 6, N. Y.
 ①Telex, Inc., Telex Park, St. Paul 1, Minn.
 Telephonics Corp., Park Ave., Huntington, N. Y.

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- ⓈTRIMM, INC., 400 W. Lake St., Libertyville, Ill. ADV PG. 266.
- ⓈZenith Radio Corp., 6001 Dickens Ave., Chicago 39, Ill.

HEADS—Recording

- ⓈAmplifier Corp. of America, 396 Broadway, New York 13, N. Y.
- ⓈAstatic Corp., The, Conneaut, Ohio.
- ⓈBerlant Associates, 4917 W. Jefferson Blvd., Los Angeles 16, Calif.
- ⓈBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV PG. 124, 125.
- ⓈCook Laboratories, 139 Gordon Blvd., Floral Park, N. Y.
- ⓈFairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
- ⓈHart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.
- ⓈINDIANA STEEL PRODUCTS COMPANY, THE, Valparaiso, Indiana. ADV PG. 22.
- ⓈSpeak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- ⓈStancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- ⓈWireway Corp. of America, 1331 Halsey St., Brooklyn 27, N. Y.

HEARING AID ANALYZERS

- ⓈHofmann Corp., C. L., 436 Blvd. of Allies, Pittsburgh, Pa.
- ⓈInternational Instruments, Inc., 331 East St., New Haven 11, Conn.
- ⓈMassa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- ⓈPANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV PG. 270.
- ⓈTech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

HEARING AID BATTERIES

- ⓈGeneral Dry Batteries, Inc., 13000 Athens Ave., Cleveland, Ohio.
- ⓈGlobe Phone Mfg. Co., 2 Linden St., Reading, Mass.
- ⓈManufacturers Battery Co., Sub. of Ray-O-Vac Co., Madison, Wis.
- ⓈMarathon Battery Co., Wausau, Wis.
- ⓈNATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV PG. 109.
- ⓈOlin Industries, Inc., Electrical Div., New Haven 4, Conn.
- ⓈSprague Electric Co., North Adams, Mass.
- ⓈVitamite Co., 227 W. 64th St., New York 23, N. Y.

HEARING AID CHOKES

- ⓈAurex Corp., 1117 N. Franklin St., Chicago, Ill.
- ⓈBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV PG. 250.
- ⓈELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV PG. 116.
- ⓈFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV PG. 143.
- ⓈHIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV PG. 194.
- ⓈHofmann Corp., C. L., 436 Blvd. of Allies, Pittsburgh, Pa.
- ⓈS. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
- ⓈSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- ⓈSTANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV PG. 62.
- ⓈStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- ⓈSuper Electric Products Corp., 46 Oliver St., Newark, N. J.
- ⓈU. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV PG. 266.

HEARING AID CONNECTORS

- ⓈALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV PG. 235.
- ⓈAurex Corp., 1117 N. Franklin St., Chicago, Ill.
- ⓈBRUSH DEVELOPMENT CO., THE, 3405 Perkins Ave., Cleveland 14, Ohio. ADV PG. 124, 125.
- ⓈEby Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- ⓈEtrac Mfg. Co., Inc., Woods Church Rd., Flemington, N. J.
- ⓈHofmann Corp., C. L., 436 Blvd. of Allies, Pittsburgh, Pa.

HEARING AID MICROPHONES

- ⓈAstatic Corp., The, Conneaut, Ohio.
- ⓈBRUSH DEVELOPMENT CO., THE, 3405 Perkins Ave., Cleveland 14, Ohio. ADV PG. 124, 125.
- ⓈGlobe Phone Mfg. Co., 2 Linden St., Reading, Mass.
- ⓈTibbetts Industries, Inc., Camden, Maine.
- ⓈTURNER CO., THE, 909 17th St., N. E., Cedar Rapids, Iowa. ADV PG. 54.

HEARING AID RECEIVERS

- ⓈBeltone Hearing Aid Co., Beltone Bldg., 1450 W. 19th St., Chicago 8, Ill.
- ⓈBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV PG. 124, 125.
- ⓈCENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV PG. 64, 65.
- ⓈGlobe Phone Mfg. Co., 2 Linden St., Reading, Mass.
- ⓈMurdock Mfg. Co., Wm. J. Chelsea, Mass.
- ⓈTaybren Equipment Co., Inc., 120 Greenwich St., New York 6, N. Y.
- ⓈTelex, Inc., Telex Park, St. Paul 1, Minn.

HEARING AID TRANSFORMERS

- ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ⓈAurex Corp., 1117 N. Franklin St., Chicago, Ill.
- ⓈBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV PG. 250.
- ⓈELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV PG. 116.
- ⓈFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV PG. 143.
- ⓈHIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV PG. 194.
- ⓈPeerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- ⓈRollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- ⓈS. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
- ⓈSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- ⓈStandard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
- ⓈSTANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV PG. 62.
- ⓈStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
- ⓈSuper Electric Products Corp., 46 Oliver St., Newark, N. J.
- ⓈTriad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.

HEARING AID TUBES

See Tubes—Hearing Aid

HEARING AIDS

- ⓈAurex Corp., 1117 N. Franklin St., Chicago, Ill.
- ⓈBeltone Hearing Aid Co., Beltone Bldg., 1450 W. 19th St., Chicago 8, Ill.
- ⓈGlobe Phone Mfg. Corp., 2 Linden St., Reading, Mass.
- ⓈHofmann Corp., C. L., 436 Blvd. of The Allies, Pittsburgh 19, Pa.
- ⓈLaurek Radio Mfg. Co., 3931 Monroe Ave., Wayne, Mich.
- ⓈMaico Co., Inc., 21 North 3rd St., Minneapolis, Minn.
- ⓈModern Hearing Aids Laboratory, The, 6805 Fraser St., Vancouver, B. C., Canada.
- ⓈMyers & Sons, E. A., Radioear Bldg., Beverly Rd., Pittsburgh 16, Pa.
- ⓈParavox, Inc., 2056 East 4th St., Cleveland 15, Ohio.
- ⓈPlastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- ⓈSchulmerich Electronics, Inc., Sellersville, Pa.
- ⓈSmuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ⓈSonotone Corp., P. O. Box 200, Saw Mill River Road, Elmsford, N. Y.
- ⓈTaybren Equipment Co., Inc., 120 Greenwich St., New York 6, N. Y.
- ⓈTelex, Inc., Telex Park, St. Paul 1, Minn.
- ⓈTRIMM INC., 400 W. Lake St., Libertyville, Ill. ADV PG. 266.
- ⓈWestern Sound & Electric Labs., Inc., 805 S. Fifth St., Milwaukee 4, Wis.
- ⓈZ & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.
- ⓈZenith Radio Corp., 6001 Dickens Ave., Chicago 39, Ill.

HEATING, ELECTRONIC—Accessories and Associated Equipment

- ⓈAjax Electrothermic Corp., Ajax Park, Trenton 5, N. J.
- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV PG. 169.
- ⓈElectronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV PG. 5 to 18.
- ⓈHigh Frequency Heating Co., 143 Glen Park Ave., Gary, Ind.
- ⓈInduction Heating Corp., 181 Wythe Ave., Brooklyn 11, N. Y.
- ⓈINTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV PG. 88, 89.
- ⓈLepel High Frequency Labs., Inc., 39 West 60th St., New York 23, N. Y.
- ⓈMinneapolis-Honeywell Regulator Co., 2753 4th Ave., S. Minneapolis, Minn.

- ⓈRADIO RECEPTOR CO., 251 W. 19th St., New York 11, N. Y. ADV PG. 188.
- ⓈRAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV PG. 257.
- ⓈSherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
- ⓈSherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈShort Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
- ⓈSpectrum Mfg. Co., 540 N. 63rd St., Philadelphia 31, Pa.
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- ⓈTITFLEX, INC., 500 Frelinghuysen Ave., Newark 5, N. J. ADV PG. 148.
- ⓈWeltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV PG. 77.
- ⓈWhiteman, R. A., 630 N. Wisner Ave., Park Ridge, Ill.

HEATING, ELECTRONIC—Dielectric

- ⓈAironics Mfg. Co., 5145 W. San Fernando Rd., Los Angeles 39, Calif.
- ⓈAllis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV PG. 169.
- ⓈEcco High Frequency Corp., 7020 Hudson Blvd., North Bergen, N. J.
- ⓈElectronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV PG. 5 to 18.
- ⓈGirdler Corp., Thermex Div., 224 E. Broadway, Louisville 1, Ky.
- ⓈHigh Frequency Heating Co., 143 Glen Park Ave., Gary, Ind.
- ⓈInduction Heating Corp., 181 Wythe Ave., Brooklyn 11, N. Y.
- ⓈLepel High Frequency Labs., Inc., 39 West 60th St., New York 23, N. Y.
- ⓈPan-American Electronics, Inc., 5816 S. Sante Fe Ave., Los Angeles 11, Calif.
- ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV PG. 73 to 75, Inside Back and Back Covers.
- ⓈRADIO RECEPTOR CO., 251 W. 19th St., New York 11, N. Y. ADV PG. 188.
- ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV PG. 257.
- Ⓢ"S" CORRUGATED QUENCHED GAP CO., Scientific Electric Div., 107 Monroe St., Garfield, N. J. ADV PG. 265.
- ⓈSherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
- ⓈSherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈShort Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
- ⓈSpectrum Mfg. Co., 540 N. 63rd St., Philadelphia 31, Pa.
- ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓈWeltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV PG. 77.
- ⓈWoodwelding, Inc., 3000 W. Olive Ave., Burbank, Cal.

HEATING, ELECTRONIC—Induction

- ⓈAjax Electrothermic Corp., Ajax Park, Trenton 5, N. J.
- ⓈAllis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
- ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV PG. 169.
- ⓈEcco High Frequency Corp., 7020 Hudson Blvd., North Bergen, N. J.
- ⓈElectronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV PG. 5 to 18.
- ⓈHigh Frequency Heating Co., 143 Glen Park Ave., Gary, Ind.
- ⓈInduction Heating Corp., 181 Wythe Ave., Brooklyn 11, N. Y.
- ⓈLepel High Frequency Labs., Inc., 39 West 60th St., New York 23, N. Y.
- ⓈMARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV PG. 130.
- ⓈOhio Crankshaft Co., Tocco Div., 3800 Harvard Ave., Cleveland 1, Ohio.
- ⓈProgressive Welder Co., 3050 E. Outer Drive, Detroit, Mich.
- ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ"S" CORRUGATED QUENCHED GAP CO., Scientific Electric Div., 107 Monroe St., Garfield, N. J. ADV PG. 265.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ① Sherman Industrial Electronics Co., 505 Washington Ave., Belleville 9, N. J.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① Spectrum Mfg. Co., 540 N. 63rd St., Philadelphia 31, Pa.
- ① Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ① Thordarson Electric Mfg. Div., Maguire Industries Inc., 500 W. Huron St., Chicago 10, Ill.
- ① Weltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

HEMOGLOBINOMETERS—Electronic

- ① Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- ① Fisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.
- ① Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.

HOLDERS, CRYSTAL

- ① ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- ① AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- ① Breon Labs., 1520 Evergreen Rd., Williamsport, Pa. Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Cal.
- ① CENTRALAB, Div. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- ① Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ① Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ① ELECTRICAL INDUSTRIES, INC., 44 Summer Ave., Newark 4, N. J. ADV. PG. 217.
- ① Electronic Mechanics Inc., 70 Clifton Blvd., Clifton, N. J.
- ① Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- ① HERMETIC SEAL PRODUCTS CO., 29-37 So. 6th St., Newark 7, N. J. ADV. PG. 87.
- ① Howard Mfg. Co., 1401 S. Main St., Council Bluffs, Iowa.
- ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ① KNIGHTS CO. JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ① Miller, August E., 9226 Hudson Blvd., North Bergen, N. J.
- ① Nebel Lab., R. E., 1104 Lincoln Place, Brooklyn 13, N. Y.
- ① Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- ① Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Oregon.
- ① REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ① Scientific Radio Products Co., 738 W. Broadway, Council Bluffs, Iowa.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ① STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- ① Varian Associates, 99 Washington St., San Carlos, Calif.
- ① Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

HORNS—Speaker Projector

- ① Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ① Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
- ① Brociner Electronics Lab., 1546 Second Ave., New York 28, N. Y.
- ① Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- ① Castlewood Mfg. Co., 12th & Burnett Sts., Louisville, Ky.
- ① Commercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
- ① Dilks Co., The, Seymour, Conn.
- ① ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- ① Kling Metal Spinning Co., 174 Centre St., New York 13, N. Y.
- ① Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ① Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- ① UNIVERSITY LOUDSPEAKERS INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.

HOUSINGS—Antenna

- ① Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- ① Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ① Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- ① Kennedy & Co., D. S., Cohasset, Mass.

- ① Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ① Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

HOUSINGS—Automobile Radio

- ① Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- ① Delco Radio Div., General Motors Corp., Kokomo, Ind.
- ① Felsenthal & Sons, Inc. G., 4100 W. Grand Ave., Chicago 51, Ill.
- ① Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- ① MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

HOUSINGS—Instrument

- ① Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- ① ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsy Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- ① Berkshire Laboratories, P. O. Box 70, Concord, Mass.
- ① Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- ① FALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
- ① Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- ① KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- ① Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.
- ① MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- ① PAR-METAL PRODUCTS CORP., 32-62 49th St., Long Island City 3, N. Y. ADV. PG. 242.
- ① Plastimold Corp., Attleboro, Mass.
- ① REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- ① RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- ① Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.
- ① Waterbury Companies, Inc., Waterbury 90, Conn.

HOUSINGS—Public Address System

- ① Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ① American Communications Corp., 306 Broadway, New York 7, N. Y.
- ① Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y. Castlewood Mfg. Co., 12th & Burnett Sts., Louisville, Ky.
- ① Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- ① Commercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
- ① Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- ① KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- ① Kling Metal Spinning Co., 174 Centre St., New York 13, N. Y.
- ① Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
- ① Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.
- ① MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- ① PAR-METAL PRODUCTS CORP., 32-62 49th St., Long Island City 3, N. Y. ADV. PG. 242.
- ① Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① Simpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
- ① Stephens Mfg. Corp., 8538 Warner Drive Culver City, Calif.
- ① Vibraloc Corporation, 425 Bush St., San Francisco 8, Calif.
- ① Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

HOUSINGS—Speaker

- ① Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- ① Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ① American Communications Corp., 306 Broadway, New York 7, N. Y.
- ① ART-LLOYD METAL PRODS., CORP., 2973 Cropsy Ave., Brooklyn 14, N. Y. ADV. PG. 272.

- ① Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
- ① Brociner Electronics Lab., 1546 Second Ave., New York 28, N. Y.
- ① Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio. Castlewood Mfg. Co., 12th & Burnett Sts., Louisville, Ky.
- ① Commercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
- ① Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- ① ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- ① Electronic Workshop, Inc., 351 Bleecker St., New York 14, N. Y.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- ① Hawley Products Co., St. Charles, Ill.
- ① JENSEN MFG. CO., 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91.
- ① KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- ① Kling Metal Spinning Co., 174 Centre St., New York 13, N. Y.
- ① Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
- ① MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- ① Murdoch Mfg. Co., Wm. J., Chelsea, Mass.
- ① PAR-METAL PRODUCTS CORP., 32-62 49th St., Long Island City 3, N. Y. ADV. PG. 242.
- ① REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- ① Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J., ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- ① Vibraloc Corporation, 425 Bush St., San Francisco 8, Calif.
- ① Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

IGNITION SYSTEMS—Electronic

- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.

IGNITRON

See Tubes

IMPREGNATING COMPOUNDS

See Insulating Compounds

IMPREGNATING MACHINES

See Machines

IMPREGNATING WAX

See Wax, Impregnating

INDICATORS—Antenna Position

- ① Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ① Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y.
- ① Johnson Co., E. F., Waseca, Minn.
- ① Sterling Mfg. Co., 9205 Detroit St., Cleveland 2, Ohio.

INDICATORS, ARC BACK

- ① Walkirt Co., 5808 Marilyn Ave., Culver City, Calif.

INDICATORS—Automatic Mixture Control

- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ① Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, 5, Minneapolis, Minn.

INDICATORS—Capacitor Leakage

- ① ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ① Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- ① McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

INDICATORS—Density

See Indicators, Specific Gravity

INDICATORS—Detonation Indicators & Meters

- Ⓜ Control Engineering Corp., 863 Washington St., Canton, Mass.
- Ⓜ Electro Products Labs., Inc., 549 W. Randolph St., Chicago 6, Ill.
- Ⓜ Phillips Petroleum Co., Special Products Div., Bartlesville, Okla.
- Ⓜ Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

INDICATORS—Dew Point

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Ⓜ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓜ Foxboro Co., The, Foxboro, Mass.
- Ⓜ Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓜ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

INDICATORS—Dielectric Constant

- Ⓜ H. M. R. Electronics, Inc., Grove St., New Canaan, Conn.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

INDICATORS—Film Thickness

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Ⓜ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓜ Pratt & Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- Ⓜ Tracerlab, Inc., 130 High St., Boston 10, Mass.

INDICATORS—Fluid Conductivity

- Ⓜ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓜ Foxboro Co., The, Foxboro, Mass.
- Ⓜ Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓜ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓜ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓜ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

INDICATORS—Fluid Flow

- Ⓜ Air Associates, Inc., Teterboro, N. J.
- Ⓜ Autocall Co., The, Shelby, Ohio.
- Ⓜ Bailey Meter Co., 1044 Ivanhoe Road, Cleveland 10, Ohio.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓜ Fischer & Porter Co., Hatboro, Pa.
- Ⓜ Foxboro Co., The, Foxboro, Mass.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓜ Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ Leupold & Stevens Instruments, Inc., 4445 N. E. Glisan St., Portland 13, Ore.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓜ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓜ U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.

INDICATORS—Frequency

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Berkeley Scientific Co., Richmond, Calif.
- Ⓜ Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
- Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ Furst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ GENERAL RADIO CO., 27 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓜ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓜ POTTER INSTRUMENT CO., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓜ Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- Ⓜ Westberg Mfg. Co., 612 N. Michigan Ave., Chicago 11, Ill.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif.

INDICATORS—Geiger Counter

- Alpha Laboratories, Box 184, Belmar, N. J.
- Ⓜ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Berkeley Scientific Co., Richmond, Calif.
- Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
- Ⓜ EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓜ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓜ FLADER, INC., Frederic, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓜ Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
- Ⓜ Manufacturers Eng. & Equip. Corp., Willow Grove, Pa.
- Ⓜ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- Ⓜ Nuclear Development Lab., P. O. Box 7034, Kansas City, Mo.
- Ⓜ Nuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
- Ⓜ Nuclidean Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓜ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓜ Radiation Counter Laboratories, Inc., 1844 W. 21 St., Chicago 8, Ill.
- Ⓜ Radioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- Ⓜ Tracerlab, Inc., 130 High St., Boston 10, Mass.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

INDICATORS—Hardness

- Ⓜ Barber-Colman Co., Rockford, Ill.
- Ⓜ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

INDICATORS—Humidity

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Ⓜ ECLIPSE-PIONEER DIV., BENDIX AVIATION CORP., Teterboro, N. J. ADV. PG. 176.
- Ⓜ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓜ Foxboro Co., The, Foxboro, Mass.
- Ⓜ Fibox Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Serdex, Inc., 91 Cambridge St., Boston, Mass.

- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

INDICATORS—Illumination

- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Kirkland Co., H. R., The, 8 King St., Morristown, N. J.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

INDICATORS—Liquid Level

- Ⓜ Air Associates, Inc., Teterboro, N. J.
- Ⓜ Airlectron Inc., P. O. Box 151, Caldwell, N. J.
- Ⓜ Allis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
- Autocall Co., The, Shelby, Ohio
- Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓜ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓜ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓜ Ess Instrument Co., 96 S. Washington Ave., Bergenfield, N. J.
- Ⓜ Fischer & Porter Co., Hatboro, Pa.
- Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓜ Foxboro Co., The, Foxboro, Mass.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓜ Leupold & Stevens Instruments, Inc., 4445 N. E. Glisan St., Portland 13, Ore.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓜ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓜ Mosher Electronic Controls, 130 W. 42nd St., New York, N. Y.
- Ⓜ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Trico Fuse Mfg. Co., 2948 North Fifth, Milwaukee 12, Wis.
- Ⓜ Vapor Recovery Systems Co., 2820 N. Alameda, Compton, Calif.
- Ⓜ Warrick Co., Charles F., 16251 Hamilton Ave., Detroit 3, Mich.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

INDICATORS—Materials Thickness

- Ⓜ Electric Eye Equipment Co., 16 W. Fairchild St., Danville, Ill.
- Ⓜ Fielden Electronics, Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓜ Foxboro Co., The, Foxboro, Mass.
- Ⓜ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Ⓜ Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- Ⓜ Pratt-Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.
- Ⓜ Schaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- Ⓜ Stevens-Arnold, Inc., 22 Elkins St., South Boston 27, Mass.
- Ⓜ Tracerlab, Inc., 130 High St., Boston 10, Mass.

INDICATORS—Moisture

- Ⓜ Fielden Electronics, Inc., 1171 New York Ave., Huntington Station, N. Y.
- Ⓜ Foxboro Co., The, Foxboro, Mass.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓜ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓜ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓜ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓜ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

INDICATORS—Nuclear Radiation

- Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- Applied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
- ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Berkeley Scientific Co., Richmond, Calif.
- CHATHAM ELECTRONICS CORP., 475 Washington St., Newark 2, N. J. ADV. PG. 126.
- Clarkston Corp., 11927 SW. Pico Blvd., Los Angeles 64, Calif.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
- EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- GENERAL ELECTRIC CO., Electronics Dept., Syracuse, N. Y. ADV. PG. 5 to 18.
- Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
- Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- North American Philips Co., 100 E. 42nd St., New York 17, N. Y.
- Nuclear Development Lab., P. O. Box 7034, Kansas City, Mo.
- Nuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
- Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Radioactive Products, Inc., 3201 E. Woodbridge Ave., Detroit 7, Mich.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- Tracerlab, Inc., 130 High St., Boston 10, Mass.

INDICATORS—Ocean Depth

- Edo Corp., College Point, Long Island, N. Y.
- Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.

INDICATORS—Oxygen

- Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Minneapolis-Honeywell Regulation Co., 2753 Fourth Avenue, S., Minneapolis, Minn.

INDICATORS—pH

- Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Foxboro Co., The, Foxboro, Mass.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- La Motte Chemical Products Co., Towson 4, Baltimore, Md.
- Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Mallinckrodt Chemical Works, Second & Mallinckrodt Sts., St. Louis 7, Mo.
- Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Ave., Philadelphia 44, Pa.
- National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- Wallace & Tiernan Products, Inc., Belleville 9, N. J.

INDICATORS—Photographic Exposure

- American Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
- Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.
- DEJUR-AMSCO CORP., Northern Blvd., at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- HICKOK ELECTRICAL INSTRUMENTS CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

INDICATORS—Positioning

- Air Associates, Inc., Teterboro, N. J.
- Allis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
- Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Hastings Instrument Co., Box 1275, Hampton, Va.
- INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- O'Connor & Co., John T., West Orange, N. J.
- Robinet Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Schaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Stevens-Arnold Inc., 22 Elkins St., South Boston 27, Mass.
- Varo Mfg. Co., Inc., Box 638, Garland, Texas.

INDICATORS—Power Level

- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Daven Co., 191 Central Ave., Newark 4, N. J.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

INDICATORS—Pressure

- Autocall Co., The, Shelby, Ohio.
- Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Baldwin Locomotive Works, Philadelphia 42, Pa.
- Control Engineering Corp., 863 Washington St., Canton, Mass.
- Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.
- ECLIPSE-PIONEER DIV., BENDIX AVIATION CORP., Teterboro, N. J. ADV. PG. 176.
- Electro Products Labs., 549 W. Randolph St., Chicago 6, Ill.
- FLADER, INC., Frederic, North Tonawanda, N. Y. ADV. PG. 240.
- Foxboro Co., The, Foxboro, Mass.
- INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Manning, Maxwell & Moore, Inc., Stratford, Conn.
- Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Nurnberg Thermometer Co., Inc., 4 Corey St., Boston 32, Mass.

- Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- Schaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- Serdex, Inc., 91 Cambridge St., Boston, Mass.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Sierra Electronic Corp., San Carlos, Calif.
- U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- Wallace & Tiernan Products, Inc., Belleville 9, N. J.

INDICATORS—Recording Engine

- Commercial Research Labs. Inc., 20 Bartlett Ave., Detroit 3, Mich.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.

INDICATORS—Shorted Turn

- Kartron Inc., Box 472, Huntington Beach, Calif.
- Rubicon Co., 8751 Ridge Ave., Philadelphia, Pa.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

INDICATORS—Smoke & Combustion

- Bailey Meter Co., 1044 Ivanhoe Road, Cleveland 10, Ohio.
- Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Industrial Electronics Co., Inc., Hanover, Mass.
- Lectro-Max Inc., 15 S. First St., Geneva, Ill.
- Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Photobell Company, 116 Nassau St., New York 7, N. Y.
- Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Photovolt Corp., 95 Madison Ave., New York 16, N. Y.

INDICATORS—Sound Level

- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Daven Co., 191 Central Ave., Newark 4, N. J.
- Fairchild Recording Equipment Corp., 154 St. & 7th Avenue, Whitestone, N. Y.
- GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Hart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.
- International Instruments, Inc., 331 East St., New Haven 11, Conn.
- Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., New Haven 11, Conn.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.

INDICATORS—Specific Gravity

- Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
- Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.
- Fischer & Porter Co., Hatboro, Pa.
- Foxboro Co., The, Foxboro, Mass.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

INDICATORS—Strain

- Anderson, Arthur R., 110 Woodbury Ave., Springdale, Conn.
- Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Baldwin Locomotive Works, Philadelphia 42, Pa.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓈELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.
- ⓈEllis Associates, Box 77, Pelham 65, N. Y.
- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈHathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- ⓈINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit, Mich. ADV. PG. 255.
- ⓈMinneapolis-Honeywell Regulator Co., 2753 Fourth Avenue S, Minneapolis, Minn.
- ⓈNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓈSchaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- ⓈSherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Sierra Electronic Corp., San Carlos, Calif.

INDICATORS—Telemetering

- ⓈAir Associates, Inc., Teterboro, N. J.
- ⓈApplied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈBailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ⓈBendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- ⓈBristol Co., The, Waterbury 20, Conn.
- ⓈFLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈIllinois Testing Labs, Inc., 420 N. LaSalle St., Chicago 10, Ill.
- ⓈLear, Inc., 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- ⓈLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ⓈLeupold & Stevens Instruments, Inc., 4445 N. E. Glisan St., Portland 13, Ore.
- ⓈPANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- ⓈSherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈSmuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ⓈThompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

INDICATORS—Temperature

- ⓈAssembly Products, Inc., Chagrin Falls 6, Ohio.
- ⓈAutocall Co., The, Shelby, Ohio.
- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈBailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ⓈCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓈDillon & Co., W. C., 5410 W. Harrison St., Chicago 44, Ill.
- ⓈEDISON INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129.
- ⓈFischer & Porter Co., Hatboro, Pa.
- ⓈFisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈFriez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈGordon Co., Claud S., 3000 S. Wallace St., Chicago 16, Ill.
- ⓈGeneral Controls Co., Glendale 1, Calif.
- ⓈIllinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- ⓈJ B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ⓈLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ⓈLewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- ⓈManning Maxwell & Moore, Inc., Stratford, Conn.
- ⓈMARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ⓈMeters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓈNurnberg Thermometer Co., Inc., 4 Corey St., Boston 32, Mass.
- ⓈPhiladelphia Thermometer Co., 4401 N. Sixth St., Philadelphia, Pa.
- ⓈRubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- ⓈSensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- ⓈSerdex, Inc., 91 Cambridge St., Boston, Mass.
- ⓈSimpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ⓈThwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- ⓈU. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈWheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

INDICATORS—Timing

- ⓈAirelectron, Inc., P. O. Box 151, Caldwell, N. J.
- ⓈAMERICAN CHRONOSCOPE CORP., 316 W. First St., Mt. Vernon, N. Y. ADV. PG. 84.
- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈBerkeley Scientific Co., Richmond, Calif.
- ⓈCRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- ⓈElectric Tachometer Corp., 2218 Vine St., Philadelphia 3, Pa.
- ⓈGale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈHarshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- ⓈHAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- ⓈHAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- ⓈLumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- ⓈPhotoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- ⓈPOTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- ⓈSessions Clock Co., Forestville, Conn.
- ⓈSheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- ⓈSherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈSpecial Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- ⓈStandard Electric Time Co., 89 Logan St., Springfield, Mass.

INDICATORS—Torque

- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈBaldwin Locomotive Works, Philadelphia 42, Pa.
- ⓈCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓈFLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ⓈMorill & Morill, 30 Church St., New York 7, N. Y.

INDICATORS—Turbidity

- ⓈHarshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.

INDICATORS—Vacuum

- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈBailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ⓈCentral Scientific Co., 1700 Irving Park Road, Chicago 13, Ill.
- ⓈContinental Electric Co., Geneva, Ill.
- ⓈDistillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd., W., Rochester 3, N. Y.
- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈFredericks Co., Geo. E., Bethayres, Pa.
- ⓈHarshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- ⓈHastings Instrument Co., Box 1275, Hampton, Va.
- ⓈHaydu Brothers, Plainfield, N. J.
- ⓈLiton Industries, San Carlos, Calif.
- ⓈManning, Maxwell & Moore, Inc., Stratford, Conn.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓈNational Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- ⓈManufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ⓈNurnberg Thermometer Co., Inc., 4 Corey St., Boston 32, Mass.
- ⓈU. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- ⓈWallace & Tiernan Products Inc., Belleville 9, N. J.
- ⓈWelch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

INDICATORS—Volume

- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈDaven Co., 191 Central Ave., Newark 4, N. J.
- ⓈFairchild Recording Equipment Corp., 154 St. & 7th Avenue, Whitestone, N. Y.
- ⓈHart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.
- ⓈTriplett Electrical Instrument Co., 286 Harmon St., Bluffton, Ohio.
- ⓈU. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.

INDICATORS—Weight

- ⓈAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓈBaldwin Locomotive Works, Philadelphia 42, Pa.
- ⓈCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.

- ⓈFLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈSchaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- ⓈTracerlab, Inc., 130 High St., Boston 10, Mass.

ILLUMINATION CONTROLS

See Controls, Illumination

INDUCTION HEATING

See Heating, Induction

INDUCTORS

See Chokes and Coils, Choke

INFRA-RED DRYING OVENS

See Ovens

INSPECTION EQUIPMENT—Lighting

- ⓈFostoria Pressed Steel Corp., Fostoria, Ohio.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

INSTRUMENT PARTS—Precision

- ⓈARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
- ⓈBowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md.
- ⓈBRADLEY LABS., INC., 82 Meadow St., New Haven 10, Conn. ADV. PG. 152.
- ⓈCINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- ⓈCitation Products Co., 233 E. 146th St., New York 51, N. Y.
- ⓈCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓈDaven Co., 191 Central Ave., Newark 4, N. J.
- ⓈEastern Specialty Co., Philadelphia 40, Pa.
- ⓈElm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- ⓈFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- ⓈFelsenthal & Sons Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
- ⓈFerner Co., R. Y., 110 Pleasant St., Malden, Mass.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈInstrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
- ⓈINSTRUMENT SPECIALTIES CO., INC., 254 Bergen Blvd., Little Falls, N. J. ADV. PG. 202.
- ⓈLear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- ⓈMcElroy Mfg. Corp., Littleton, Mass.
- ⓈMAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- ⓈManufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- ⓈMetropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- ⓈMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓈNEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- ⓈReeves Instrument Corp., 215 E. 91st Street, New York, N. Y.
- ⓈRubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- ⓈSmith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- ⓈSpaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y.
- ⓈStar Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
- ⓈSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- ⓈTechnology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ⓈVallorbs Jewel Co., Lancaster, Pa.
- ⓈVECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- ⓈVibration Systems, Inc., 1040 W. Fort St., Detroit 26, Mich.

INSTRUMENTS—Electronic Musical

- ⓈBaldwin Locomotive Works, Philadelphia 42, Pa.
- ⓈConn Ltd., C. G., Electronics Div., Elkhart, Ind.
- ⓈCrystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ⓈWurlitzer Co., Rudolph, The, N. Tonawanda, N. Y.

INSTRUMENTS—Graphic Recording

- ⓈAcme Telectronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- ⓈALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓈBailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ⓈBaldwin Locomotive Works, Philadelphia 42, Pa.
- ⓈBRUSH DEVELOPMENT CO., THE, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- ⓈCENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- ⓈConsolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- ⓈEdin Electronics Co., 207 Main St., Worcester, Mass. Electric Tachometer Corp., 2218 Vine St., Philadelphia 3, Pa.
- ⓈElectronic Associates, Inc., Long Branch, N. J.
- ⓈELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.
- ⓈEsterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ⓈFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- ⓈFielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
- ⓈFLADER, INC., FREDERICK, North Tonawanda, N. Y. ADV. PG. 240.
- ⓈFoxboro Co., The, Foxboro, Mass.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈGorrell & Gorrell, Haworth, N. J.
- ⓈGrass Instrument Co., 101 Old Colony Ave., Quincy, Mass.
- ⓈKAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ⓈMcElroy Mfg. Corp., Littleton, Mass.
- ⓈManning, Maxwell & Moore, Inc., Stratford Conn.
- ⓈMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓈOffner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
- ⓈORAHM INSTRUMENTS, INC., 12 W. Broadway, New York 7, N. Y. ADV. PG. 178.
- ⓈOSANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- ⓈSedex, Inc., 93 Cambridge St., Boston, Mass.
- ⓈSERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson, N. J. ADV. PG. 187.
- ⓈSOUND APPARATUS CO., Stirling, N. J. ADV. PG. 243.
- ⓈSouthwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- ⓈSpecial Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- ⓈWallace & Tiernan Products, Inc., Belleville 9, N. J.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈWESTON ELECTRICAL INSTRUMENT CORP., 614 Freylinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ⓈWheeler Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

INSTRUMENTS—Nuclear

- ⓈAnton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- ⓈApplied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
- ⓈATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- ⓈBerkeley Scientific Co., Richmond, Calif.
- ⓈCHATHAM ELECTRONICS CORP., 475 Washington St., Newark 2, N. J. ADV. PG. 126.
- ⓈClarkstan Corp., 11927 SW Pico Blvd., Los Angeles 64, Calif.
- ⓈCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- ⓈElectronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
- ⓈEL-TRONICS, INC., 2649 N. Howard St., New York 13, N. Y. ADV. PG. 238.
- ⓈFLADER, INC., FREDERICK, North Tonawanda, N. Y. ADV. PG. 240.
- ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓈGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓈKelley-Koett Mfg., Instrument Div., 12 E. 6th St., Covington, Ky.
- ⓈManufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ⓈNational Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- ⓈNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓈNuclear Development Lab., P. O. Box 7034, Kansas City, Mo.
- ⓈNuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
- ⓈNucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- ⓈPOTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- ⓈRadiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
- ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓈRadioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
- ⓈSherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

- ⓈSpecial Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- ⓈStreeter-Ames Corp., 4101 N. Ravenswood Ave., Chicago 13, Ill.
- ⓈTracerlab, Inc., 130 High St., Boston 10, Mass.
- ⓈVarian Associates, 99 Washington St., San Carlos, Calif.
- ⓈZ & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

INSTRUMENTS—Panel

- ⓈART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- ⓈAssembly Products, Inc., Chagrin Falls 6, Ohio.
- ⓈAustin Co., Inc., 335 Throop Ave., Brooklyn 21, N. Y.
- ⓈBailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ⓈBaldwin Locomotive Works, Philadelphia 42, Pa.
- ⓈBeede Electrical Instrument Co., Penacook, N. H.
- ⓈBurlington Instrument Co., Burlington, Iowa.
- ⓈCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓈElectric Design & Mfg. Corp., Burlington, Iowa.
- ⓈElectro-Mechanical Instrument Co., 812 Chestnut St., Parkside, Pa.
- ⓈFALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
- ⓈFeiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- ⓈFERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- ⓈFischer & Porter Co., Hatboro, Pa.
- ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓈInternational Instruments, Inc., 331 East St., New Haven 11, Conn.
- ⓈLewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- ⓈMARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ⓈMeters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ⓈMinneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- ⓈQ. V. S. Inc., 15 South Essex St., Orange, N. J.
- ⓈRoller-Smith, Bethlehem, Pa.
- ⓈSensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- ⓈSheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- ⓈSimpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ⓈTriplet Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- ⓈWelch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈWESTON ELECTRICAL INSTRUMENT CORP., 614 Freylinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ⓈWheeler Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

INSTRUMENTS—Ultrasonic

- ⓈBranson Instruments, Inc., 438 Fairfield Ave., Stamford, Conn.
- ⓈBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- ⓈCLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ⓈCrystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ⓈFisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.
- ⓈFREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ⓈGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓈPANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- ⓈPhotocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
- ⓈPiezo Products Co., Whitney St., Framingham, Mass.
- ⓈSherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓈSPERRY PRODUCTS, INC., Danbury, Conn. ADV. PG. 54.
- ⓈTechnology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ⓈTriplet & Barton, Inc., 831 N. Lake St., Burbank, Calif.
- ⓈValpey Crystals, Highland St., Holliston, Mass.

INSULATING COMPOUNDS
Asphalts

- ⓈBIWAX CORP., 3445 Howard St., Skokie, Ill. ADV. PG. 242.
- ⓈBorthig Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.
- ⓈDolph Co., John C., Monmouth Junction, N. J.

- ⓈHorn Co., Inc., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
- ⓈJohns-Manville, 22 E. 40th St., New York 16, N. Y.
- ⓈMITCHELL RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- ⓈSherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- ⓈStandard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
- ⓈZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

Coil Dopes

- ⓈAcme Wire Co., New Haven 14, Conn.
- ⓈBorthig Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.
- ⓈGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓈHalowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ⓈINSL-X CO., INC., THE, Water St. & Broadway, Ossining, N. Y. ADV. PG. 256.
- ⓈSchenectady Varnish Co., Schenectady, N. Y.
- ⓈSherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Enamel

- ⓈAcme Wire Co., New Haven 14, Conn.
- ⓈBakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ⓈBorthig Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.
- ⓈDu Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- ⓈHorn Co., Inc., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
- ⓈMaas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- ⓈSchenectady Varnish Co., Schenectady, N. Y.
- ⓈSherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland, Ohio.
- ⓈStandard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.

Impregnating Compounds

- ⓈAcme Wire Co., New Haven 14, Conn.
- ⓈAmerican Products Mfg. Corp., Oleander & Dublin Sts., New Orleans 18, La.
- ⓈBakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ⓈBIWAX CORP., 3445 Howard St., Skokie, Ill. ADV. PG. 242.
- ⓈBorthig Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.
- ⓈDolph Co., John C., Monmouth Junction, N. J.
- ⓈDurez Plastics & Chemicals, Inc., 1921 Walck Rd., N. Tonawanda, N. Y.
- ⓈGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓈGENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- ⓈGeorge Co., P. D., 5200 N. 2nd Street, St. Louis, Mo.
- ⓈHalowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ⓈINSL-X CO., INC., THE, Water St. & Broadway, Ossining, N. Y. ADV. PG. 256.
- ⓈIrrington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 13, N. J.
- ⓈMITCHELL RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- ⓈReichhold Chemicals, Inc., 601-707 Woodward Heights Blvd., Detroit 20, Mich.
- ⓈSauereisen Cements Co., Sauereisen Bldg., Pittsburgh 15, Pa.
- ⓈSCHENECTADY VARNISH CO., Schenectady, N. Y.
- ⓈSherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
- ⓈStandard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
- ⓈStevenson Bro. & Co., 110 Race Street, Phila. 6, Pa.
- ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ⓈZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

Insulating Varnish

- ⓈAcme Wire Co., New Haven 14, Conn.
- ⓈAmerican Products Mfg. Corp., Oleander & Dublin Sts., New Orleans 18, La.
- ⓈBakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ⓈBorthig Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.
- ⓈCommunication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- ⓈDolph, John C., Monmouth Junction, N. J.
- ⓈDow Corning Corp., Midland, Mich.
- ⓈDu Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ Durez Plastics & Chemicals, Inc., 1921 Walck Rd., N. Tonawanda, N. Y.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓥ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- George Co., P. D., 5200 N. Second St., St. Louis, Mo.
- Ⓥ Horn Co., Inc., A. C., 10th St. & 44th Ave, Long Island City 1, N. Y.
- Ⓥ INSL-X CO., THE, Water St. & Broadway, Ossining, N. Y. ADV. PG. 256.
- Ⓥ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- Ⓥ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- Ⓥ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓥ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓥ Reichhold Chemicals, Inc., 601-707 Woodward Heights Blvd., Detroit 20, Mich.
- Ⓥ SCHENECTADY VARNISH CO., Schenectady, N. Y.
- Ⓥ Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
- Ⓥ Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Lacquer

- Ⓥ Acme Wire Co., New Haven 14, Conn.
- Ⓥ American Products Mfg. Corp., Oleander & Dublin Sts., New Orleans 18, La.
- Ⓥ Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓥ Borthing Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.
- Ⓥ Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- Ⓥ Dolph Co., John C., Monmouth Junction, N. J.
- Ⓥ Du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓥ Horn Co., Inc., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
- Ⓥ INSL-X CO., INC., THE, Water St. & Broadway, Ossining, N. Y. ADV. PG. 256.
- Ⓥ Irvington Varnish & Insulation Co., 10 Argyle Terrace, Irvington 11, N. J.
- Ⓥ Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
- Ⓥ MICRO-CIRCUITS CO., New Buffalo, Mich. ADV. PG. 222.
- Ⓥ Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
- Ⓥ Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.

Phenolic Molding Compounds

- Ⓥ Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓥ Durez Plastics & Chemicals, Inc., 1921 Walck Rd., N. Tonawanda, N. Y.
- Ⓥ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓥ Irvington Varnish & Insulation Co., 10 Argyle Terrace, Irvington 11, N. J.
- Ⓥ Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Ⓥ Plaskon Division, Libbey-Owens-Ford Glass Co., 2112-24 Sylvan Ave., Toledo 6, Ohio.
- Ⓥ Reilly Tar & Chemical Corp., 1615 Merchants Bank Bldg., 11 S. Meridan St., Indianapolis, Ind.
- Ⓥ Rogers Corp., Manchester, Conn.

Pitch

- Ⓥ BIWAX CORP., 3445 Howard St., Skokie, Ill. ADV. PG. 242.
- Ⓥ MITCHELL RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓥ Reilly Tar & Chemical Corp., 1615 Merchants Bank Bldg., 11 S. Meridan St., Indianapolis, Ind.
- Ⓥ Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
- Ⓥ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

Protective Sealers

- Ⓥ Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓥ Borthing Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.
- Ⓥ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- George Co., P. D., 5200 N. 2nd Street, St. Louis, Mo.
- Ⓥ Halowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓥ INSL-X CO., INC., THE, Water St. & Broadway, Ossining, N. Y. ADV. PG. 256.
- Ⓥ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.

- Ⓥ Schenectady Varnish Co., Schenectady, N. Y.
- Ⓥ Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓥ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

Resins

- Ⓥ Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓥ BIWAX CORP., 3445 Howard St., Skokie, Ill. ADV. PG. 242.
- Ⓥ Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- Ⓥ Dow Chemical Co., Midland, Mich.
- Ⓥ Dow Corning Corp., Midland, Mich.
- Ⓥ Durez Plastics & Chemicals, Inc., 1921 Walck Rd., N. Tonawanda, N. Y.
- Ⓥ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓥ Goodyear Tire & Rubber Co., Inc., Chemical Div., 1144 E. Market St., Akron 16, Ohio.
- Ⓥ Halowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓥ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- Ⓥ Marbon Corp., Gary, Indiana.
- Ⓥ Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Ⓥ Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.
- Ⓥ Reichhold Chemicals, Inc., 601-707 Woodward Heights Blvd., Detroit 20, Mich.
- Ⓥ Schenectady Varnish Co., Schenectady, N. Y.
- Ⓥ Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓥ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

Silicone Compounds

- Ⓥ Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn.
- Ⓥ Dow Corning Corp., Midland, Mich.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓥ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓥ Irvington Varnish & Insulation Co., 10 Argyle Terrace, Irvington 11, N. J.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Varnish Cambric Coatings

- Ⓥ Acme Wire Co., New Haven 14, Conn.
- Ⓥ Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓥ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- George Co., P. D., 5200 N. 2nd St., St. Louis, Mo.
- Ⓥ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- Ⓥ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓥ Schenectady Varnish Co., Schenectady, N. Y.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Waxes

- Ⓥ BIWAX CORP., 3445 Howard St., Skokie, Ill., ADV. PG. 242.
- Ⓥ Durez Plastics & Chemicals, Inc., 1921 Walck Rd., N. Tonawanda, N. Y.
- Ⓥ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓥ Glyco Products Co., Inc., 26 Court St., Brooklyn, N. Y.
- Ⓥ Halowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, New York.
- Ⓥ Horn Co., Inc., A. C., 10th St., & 44th Ave., Long Island City 1, N. Y.
- Insulative Co., 1 Broadway, New York, N. Y.
- Ⓥ MITCHELL RAND INSULATION CO., INC., 51 Murray Street, New York 7, N. Y. ADV. PG. 92.
- Ⓥ Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
- Ⓥ Stevenson Bro. & Co., 110 Race St., Philadelphia 6, Pa.
- Ⓥ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

INSULATION MATERIALS

Aluminum Oxide

- Ⓥ Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
- Ⓥ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.

- Ⓥ Kaiser Aluminum & Chemical Sales, Inc., 1924 Broadway, Oakland 12, Calif.
- Ⓥ Merck & Co., Inc., Rahway, N. J.
- Ⓥ Norton Co., 1 New Bond St., Worcester 6, Mass.
- Ⓥ Star Porcelain Co., 61 Muirhead Ave., Trenton 9, N. J.

Asbestos

- Dobeckmum Co., The, Industrial Prods. Div., Cleveland 1, Ohio.
- Ⓥ Formica Co., The, 4640 Spring Grove Ave., Cincinnati 32, Ohio.
- Ⓥ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- Ⓥ Johns-Manville, 22 E. 40th St., New York 16, N. Y.
- Ⓥ Keasbey & Mattison, Ambler, Pa.
- Ⓥ MITCHELL RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓥ Powhatan Mining Co., Baltimore 7, Md.

Bead

- Ⓥ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Ⓥ Isolantite Mfg. Corp., Stirling, N. J.
- Ⓥ Steward Mfg. Co., D. M., Chattanooga, Tenn.

Ceramic

- Ⓥ Akron Porcelain Co., Akron 14, Ohio.
- Ⓥ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Ⓥ CENTRALAB, DIV. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓥ Colonial Insulator Co., The, 907 Grant St., Akron 11, Ohio.
- Ⓥ Crowley & Co., Inc., Henry L., 1 Central Ave., West Orange, N. J.
- Ⓥ GENERAL CERAMICS & STEATITE CORP., Keasbey N. J. ADV. PG. 219.
- Ⓥ Isolantite Mfg. Corp., Stirling, N. J.
- Ⓥ Kircherber & Co., Inc., M., 1425 37th St., Brooklyn 18, N. Y.
- Ⓥ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., Le Roy, N. Y.
- Ⓥ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓥ Louthan Mfg. Co., East Liverpool, Ohio.
- Ⓥ MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- Ⓥ Star Porcelain Co., 61 Muirhead Ave., Trenton, N. J.
- Ⓥ Steward Mfg. Co., D. M., Chattanooga, Tenn.
- Ⓥ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- Ⓥ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.

Fabric

- Ⓥ Acme Wire Co., New Haven 14, Conn.
- Ⓥ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓥ Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
- Ⓥ Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul, Minn.
- Ⓥ MITCHELL RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓥ NATIONAL VARNISHED PRODUCTS CORP., THE, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
- Ⓥ RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.

Fibre

- Ⓥ Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Ⓥ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- Ⓥ Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
- Ⓥ Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
- Ⓥ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓥ Lamicoid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
- Ⓥ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓥ Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul, Minn.
- Ⓥ MITCHELL RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓥ NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
- Ⓥ RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Ⓥ Rogers Corp., Manchester, Conn.
- Ⓥ Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
- Ⓥ Taylor Fibre Co., Norristown, Pa.
- Ⓥ Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington 99, Del.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Glass

- **BRAND & CO., WM.**, Willimantic, Conn. ADV. PG. 120, 121.
- **CORNING GLASS WORKS**, Corning, N. Y. ADV. PG. 134.
- **HERMETIC SEAL PRODUCTS CO.**, 29-37 S. 6th St., Newark 7, N. J. ADV. PG. 87.
- **Minnesota Mining & Mfg. Co.**, 900 Fauquier Ave., St. Paul, Minn.
- **MITCHELL RAND INSULATION CO., INC.**, 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- **NATIONAL VARNISHED PRODUCTS CORP., THE**, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
- **Pittsburgh Plate Glass Co.**, Pittsburgh, Pa.
- **Polan Industries**, 220 Eighth St., Huntington, West Virginia.
- **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, N. Y. ADV. PG. 147.
- **Wheaton Co., T. C.**, Industrial Div., 220 G St., Millville, N. J.

Glass Bonded Mica

- **Electronic Mechanics, Inc.**, 70 Clifton Blvd., Clifton, N. J.
- **GENERAL ELECTRIC CO.**, Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- **Huse Liberty Mica Co.**, 171 Camden St., Boston, Mass.
- **MYCALEX CORP. OF AMERICA**, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- **Mykroy, Inc.**, Arlington Heights Airport, Arlington Heights, Ill.

Glass Fibre

- **Acme Wire Co.**, New Haven 14, Conn.
- **Baer Co., N. S.**, 9 Montgomery St., Hillside, N. J.
- **BRAND & CO., WM.**, Willimantic, Conn. ADV. PG. 120, 121.
- **Continental Diamond Fibre Co.**, 16 Chapel St., Newark 16, Delaware.
- **Dielectric Materials Co.**, 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- **Formica Co., The**, 4640 Spring Grove Ave., Cincinnati 32, Ohio.
- **Franklin Fibre-Lamitex Corp.**, 12th and French Sts., Wilmington, Delaware.
- **Irvington Varnish & Insulator Co.**, 10 Argyle Terrace, Irvington 11, N. J.
- **MICA INSULATOR CO.**, Schenectady 1, N. Y. ADV. PG. 232.
- **Owens-Corning Fiberglass Corp.**, Textile Products Div., 16 E. 56th St., New York 22, N. Y.
- **Spaulding Fibre Co., Inc.**, 310 Wheeler St., Tonawanda, N. Y.

Glass Mica—Woven or Laminated

- **Continental Diamond Fibre Co.**, 16 Chapel St., Newark 16, Delaware.
- **Huse Liberty Mica Co.**, 171 Camden St., Boston, Mass.
- **Insulation Manufacturers Corp.**, 565 W. Washington Blvd., Chicago 6, Ill.
- **Irvington Varnish & Insulator Co.**, 10 Argyle Terrace, Irvington 11, N. J.
- **MITCHELL RAND INSULATION CO., INC.**, 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- **Mykroy, Inc.**, Arlington Heights Airport, Arlington Heights, Ill.
- **National Electric Coil Co.**, Columbus 16, Ohio.

Laminates, Woven Glass

- **Baer Co., N. S.**, 9 Montgomery St., Hillside, N. J.
- **Connecticut Hard Rubber Co.**, 407 East St., New Haven 9, Conn.
- **Continental Diamond Fibre Co.**, 16 Chapel St., Newark 16, Delaware.
- **Formica Co., The**, 4640 Spring Grove Ave., Cincinnati 32, Ohio.
- **Irvington Varnish & Insulator Co.**, 10 Argyle Terrace, Irvington 11, N. J.
- **Laminoid Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Ill.
- **Laminated Plastics, Inc.**, 14838 Euclid Ave., Cleveland 12, Ohio.
- **MICA INSULATOR CO.**, Schenectady 1, N. Y. ADV. PG. 232.
- **National Electric Coil Co.**, Columbus 16, Ohio.
- **NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- **Owens-Corning Fiberglass Corp.**, Textile Products Div., 16 E. 56th St., New York 22, N. Y.
- **Panelyte Div.**, St. Regis Paper Co., 230 Park Ave., New York, N. Y.
- **RICHARDSON CO., THE**, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- **Spaulding Fibre Co., Inc.**, 310 Wheeler St., Tonawanda, N. Y.
- **Synthane Corp.**, Oaks, Pa.
- **Taylor Fibre Co.**, Norristown, Pa.

Mica

- **BRAND & CO., WM.**, Willimantic, Conn. ADV. PG. 120, 121.
- **Continental Diamond Fibre Co.**, 16 Chapel St., Newark 16, Delaware.
- **GENERAL ELECTRIC CO.**, Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- **Huse Liberty Mica Co.**, 171 Camden St., Boston, Mass.
- **Irvington Varnish & Insulator Co.**, 10 Argyle Terrace, Irvington 11, N. J.
- **Macallen Co., The**, 16 Macallen St., Boston 27, Mass.
- **MICA INSULATOR CO.**, Schenectady 1, N. Y. ADV. PG. 232.
- **Micacraft Products Inc.**, 701 McCarter Highway, Newark 5, N. J.
- **MITCHELL-RAND INSULATION CO., INC.**, 51 Murray St., New York 7, N. Y. ADV. PG. 92.

Paper

- **Acme Wire Co.**, New Haven 14, Conn.
- **Aldine Paper Co., Inc.**, 535 5th Ave., New York 17, N. Y.
- **Central Paper Co., Inc.**, 2400 Lakeshore Drive, Muskegon, Mich.
- **Dobeckmun Co.**, Industrial Products Div., Cleveland 1, Ohio.
- **Hollingsworth & Vose Co.**, East Walpole, Mass.
- **Irvington Varnish & Insulator Co.**, 10 Argyle Terrace, Irvington 11, N. J.
- **Johns-Manville**, 22 E. 40th St., New York 16, N. Y.
- **Minnesota Mining & Mfg. Co.**, 900 Fauquier Ave., St. Paul, Minn.
- **Moore Co., Howard J.**, 108 Park Row, New York 7, N. Y.
- **Mosinee Paper Mills Co.**, Mosinee, Wis.
- **Rogers Corp.**, Manchester, Conn.
- **Schweitzer, Inc., Peter J.**, 405 Lexington Ave., New York 17, N. Y.
- **Smith Paper, Inc.**, Lee, Mass.
- **Taylor Fibre Co.**, Norristown, Pa.
- **Willard's**, Hampden, Mass.

Plastic**See Plastic Materials****Rubber**

- **American Hard Rubber Co.**, 11 Mercer St., New York 13, N. Y.
- **Armstrong Cork Co.**, Lancaster, Pa.
- **ATLANTIC INDIA RUBBER WORKS, INC.**, 571 W. Polk St., Chicago 7, Ill. ADV. PG. 271.
- **Connecticut Hard Rubber Co.**, 407 East St., New Haven 9, Conn.
- **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- **General Tire & Rubber Co., The**, Silentbloc Div., Wabash, Ind.
- **Irvington Varnish & Insulator Co.**, 10 Argyle Terrace, Irvington 11, N. J.
- **Luzerne Rubber Co.**, Muirhead Ave., Trenton, N. J.
- **Marbon Corp.**, Gary, Indiana.
- **Minnesota Mining & Mfg. Co.**, 900 Fauquier Ave., St. Paul, Minn.
- **U. S. Rubber Co.**, 1230 Avenue of the Americas, New York 20, N. Y.

Rubber—Conductive

- **American Hard Rubber Co.**, 11 Mercer St., New York 13, N. Y.
- **General Tire & Rubber Co., The**, Silentbloc Div., Wabash, Ind.

Steatite

- **AMERICAN LAVA CORP.**, Chattanooga, 5, Tenn. ADV. PG. 27.
- **CENTRALAB DIV.**, of Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- **Crowley & Co., Inc.**, Henry L., 1 Central Ave., West Orange, N. J.
- **GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- **Heldor Bushing & Terminal Co., Inc.**, P. O. Box 91, Orange, N. J.
- **Isolantite Mfg. Co.**, Stirling, N. J.
- **Kirchberger & Co., Inc.**, M., 1425 37th St., Brooklyn 18, N. Y.
- **Lapp Insulator Co., Inc.**, Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- **Louthan Mfg. Co.**, East Liverpool, Ohio.
- **Star Porcelain Co.**, 61 Muirhead Ave., Trenton 9, N. J.
- **Steward Mfg. Co.**, D. M., Chattanooga, Tenn.
- **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, Pa. ADV. PG. 147.
- **Thor Ceramics Inc.**, 225 Belleville Ave., Bloomfield, N. J.

INSULATION PARTS**Bead Insulation Parts**

- **AMERICAN LAVA CORP.**, Chattanooga, 5, Tenn. ADV. PG. 27.
- **CENTRALAB DIV.**, of Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- **CORNING GLASS WORKS**, Corning, N. Y. ADV. PG. 134.
- **Crane Packing Co.**, 1800 Cuyler Ave., Chicago 13, Ill.
- **GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- **HERMETIC SEAL PRODUCTS CO.**, 29-37 South 6th St., Newark 7, N. J. ADV. PG. 87.
- **Isolantite Mfg. Corp.**, Stirling, N. J.
- **Kirchberger & Co., Inc.**, M., 1425 37th St., Brooklyn 18, N. Y.
- **Laconia Corp.**, 37 S. 6th St., Newark 7, N. J.
- **Mykroy, Inc.**, Arlington Heights Airport, Arlington Heights, Ill.
- **Star Porcelain Co.**, 61 Muirhead Ave., Trenton 9, N. J.
- **Steward Mfg. Co., D. M.**, Chattanooga, Tenn.
- **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, Pa. ADV. PG. 147.
- **Waterbury Companies, Inc.**, Waterbury 90, Conn.
- **Wheaton Co., T. C.**, Industrial Div., 220 G St., Millville, N. J.
- **Wisconsin Porcelain Co.**, Sun Prairie, Wis.

Capacitor Boxes

- **Acme Folding Box Co., Inc.**, 149 E. 25th St., New York, N. Y.
- **Moore Co.**, Howard J., 108 Park Row, New York 7, N. Y.

Capacitor Films

- **Mica Fabricating Co.**, 53 Central Ave., Rochelle Park, N. J.
- **MICA INSULATOR CO.**, Schenectady 1, N. Y. ADV. PG. 232.
- **Micacraft Products, Inc.**, 701 McCarter Highway, Newark 5, N. J.

Ceramic Insulation Parts

- **AMERICAN LAVA CORP.**, Chattanooga, 5, Tenn. ADV. PG. 27.
- **CENTRALAB DIV.**, OF GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- **Crowley & Co., Inc.**, Henry L., 1 Central Ave., West Orange, N. J.
- **Electronic Mechanics, Inc.**, 70 Clifton Blvd., Clifton, N. J.
- **GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- **Hallett Mfg. Co.**, 1601 Florence Ave., Inglewood, Calif.
- **Heldor Bushing & Terminal Co., Inc.**, P. O. Box 91, Orange, N. J.
- **Isolantite Mfg. Corp.**, Stirling, N. J.
- **Kirchberger & Co., Inc.**, M., 1425 37th St., Brooklyn 18, N. Y.
- **Laconia Corp.**, 37 S. 6th St., Newark 7, N. J.
- **Lapp Insulator Co., Inc.**, Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- **Locke Incorporated**, P. O. Box 57, Baltimore 3, Md.
- **Louthan Mfg. Co.**, East Liverpool, Ohio.
- **Mica Fabricating Co.**, 53 Central Ave., Rochelle Park, N. J.
- **Mykroy, Inc.**, Arlington Heights Airport, Arlington Heights, Ill.
- **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75. Inside Back and Back Covers.
- **Scintilla-Magneto Div.** of Bendix Aviation Corp., Sidney, N. Y.
- **Star Porcelain Co.**, 61 Muirhead Ave., Trenton 9, N. J.
- **Steward Mfg. Co., D. M.**, Chattanooga, Tenn.
- **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, Pa. ADV. PG. 147.
- **Thor Ceramics Inc.**, 225 Belleville Ave., Bloomfield, N. J.
- **Wind Turbine Co.**, Tower & Antenna Div., E. Market St. & Penna. R. R. West Chester, Pa.
- **Wisconsin Porcelain Co.**, Sun Prairie, Wis.

Cut Insulation Parts

- **AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- **AMERICAN PHENOLIC CORPORATION**, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- **Beach Precision Parts Co.**, Boonton, N. J.
- **Brandywine Fibre Co.**, 15th & Poplar Sts., Wilmington, Del.
- **CAMBRIDGE THERMIONIC CORP.**, 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- **Crane Packing Co.**, 1800 Cuyler Ave., Chicago 13, Ill.
- **Crowley Co., Inc.**, Henry L., 1 Central Ave., West Orange, N. J.
- **Electronic Mechanics, Inc.**, 70 Clifton Blvd., Clifton, N. J.

① indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ① Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
 ① Franklin Mfg. Corp., A. W., 43-20 34th St., L. I. City, N. Y.
 ① GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 ① Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 ① Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 ① MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
 ① Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
 ① Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
 ① National Electric Coil Co., Columbus 16, Ohio.
 ① National Gasket & Mfg. Co., 124 E. 25th St., New York 10, N. Y.
 ① NATIONAL VARNISHED PRODUCTS CORP., THE, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
 ① Nichols Products Co., Moorestown, N. J.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 ① Plastcraft Products Co., 16 Hudson St., New York 13, N. Y.
 Printloid Inc., 95 Mercer St., New York, N. Y.
 ① RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
 ① Rogers Corp., Manchester, Conn.
 ① Taylor Fibre Co., Norristown, Pa.
 ① VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.

Extruded Insulation Parts

- ① AMERICAN LAVA CORP., Chattanooga, 5, Tenn. ADV. PG. 27.
 ① AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
 ① Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
 ① CENTRALAB DIV., OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
 ① Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn.
 ① Crowley & Co., Inc., Henry L., 1 Central Ave., West Orange, N. J.
 ① FEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 ① GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PAGE 273.
 ① GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
 ① GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 ① Isolantite Mfg. Corp., Stirling, N. J.
 ① Kirchberger & Co., Inc., M., 1425 37th St., Brooklyn 18, N. Y.
 Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 ① Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
 ① NATIONAL VARNISHED PRODUCTS CORP., THE, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
 ① Nichols Products Co., Moorestown, N. J.
 ① Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 ① Star Porcelain Co., 61 Muirhead Ave., Trenton 9, N. J.
 ① Steward Mfg. Co., D. M., Chattanooga, Tenn.
 ① STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
 ① SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
 ① Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
 ① VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.
 ① Wisconsin Porcelain Co., Sun Prairie, Wis.

Fabricated Insulation Parts

- ① AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 American Communications Corp., 306 Broadway, New York 7, N. Y.
 ① AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
 ① AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
 ① Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
 ① Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
 Beach Precision Parts Co., Boonton, N. J.
 Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 ① CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 ① CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
 ① CINCINNATI MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
 ① Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 ① Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
 Electronic Mechanics Inc., 70 Clifton Blvd., Clifton, N. J.
 Felsenthal & Sons, Inc., G., 4100 W. Grand St., Chicago 51, Ill.
 ① Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
 ① Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
 ① Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
 ① GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 ① General R-F Fittings Co., 126 Dartmouth St., Boston 16, Mass.
 ① Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 ① Huse Liberty Mica Co., 171 Camden St., Boston, Mass.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 ① Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
 ① Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
 ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 ① Isolantite Mfg. Corp., Stirling, N. J.
 ① Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
 LaMagna Mfg. Co., Inc., East Rutherford, N. J.
 ① Lamicooid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
 ① Macallen Co., The, 16 Macallen St., Boston 27, Mass.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 ① MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
 Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
 ① Molded Insulation Co., Aircraft Control Div., 335 E. Price, Philadelphia, Pa.
 ① Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
 ① MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
 ① Mykroy Inc., Arlington Heights, Airport, Arlington Heights, Ill.
 ① National Gasket & Washer Mfg. Co., 124 E. 25th St., New York 10, N. Y.
 ① NATIONAL VARNISHED PRODUCTS CORP., THE, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
 ① NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
 ① Nichols Products Co., Moorestown, N. J.
 ① Panelyte Div., St. Regis Paper Co., 230 Park Ave., New York, N. Y.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
 ① Plastcraft Products Co., 20 Hudson St., New York 13, N. Y.
 Printloid Inc., 95 Mercer St., New York, N. Y.
 ① RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
 ① Rogers Corp., Manchester, Conn.
 ① Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 ① Stevens Products Inc., 86-88 Main St., East Orange, N. J.
 ① Synthane Corp., Oaks, Pa.
 ① Taylor Fibre Co., Norristown, Pa.
 ① Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
 ① Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington 99, Del.

Insulating Cord

- ① AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
 ① GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 ① HEMINWAY & BARTLETT MFG. CO., 432 Fourth Ave., New York 16, N. Y. ADV. PG. 276.

Insulating Foil

- ① Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.

Insulating Sleeves

- ① Aircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
 ① AMERICAN MOLDED PRODUCTS CORP., 1644 N. Honore St., Chicago 22, Ill. ADV. PG. 263.
 ① Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.

- Beach Precision Parts Co., Boonton, N. J.
 ① BENTLEY HARRIS MFG. CO., Conshohocken, Pa. ADV. PG. 112.
 ① BRAND CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
 Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 ① Burndy Engineering Co., Inc., 107 Bruckner Blvd., New York 54, N. Y.
 ① CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
 ① CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
 ① Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn.
 ① Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
 ① GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
 ① GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 ① Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 ① Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
 ① Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
 ① Laconia Corp., 37 S. 6th St., Newark 7, N. J.
 Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 ① Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul, Minn.
 ① MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
 ① NATIONAL VARNISHED PRODUCTS CORP., THE, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
 ① NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
 Printloid Inc., 95 Mercer St., New York, N. Y.
 ① RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
 ① Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
 ① Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 ① Taylor Fibre Co., Norristown, Pa.
 ① Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N. J.
 ① VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.
 ① Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington 99, Del.

Laminated Insulation Parts

- ① Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
 Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
 ① CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 ① CINCINNATI MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
 ① CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
 ① Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
 Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
 ① Formica Co., The, 4640 Spring Grove Ave., Cincinnati 32, Ohio.
 ① Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
 ① Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
 ① GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 ① Huse Liberty Mica Co., 171 Camden St., Boston, Mass.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 ① Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
 ① Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
 ① Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
 ① Lamicooid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 ① MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
 Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
 ① Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 ① Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
 ① National Electric Coil Co., Columbus 16, Ohio.
 ① National Gasket & Washer Mfg. Co., Inc., 124 E. 25th St., New York 10, N. Y.
 ① NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
 ① Panelyte Div., St. Regis Paper Co., 230 Park Ave., New York 17, N. Y.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
RICARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
 Rogers Corp., Manchester, Conn.
 Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
 Synthane Corp., Oaks, Pa.
 Taylor Fibre Co., Norristown, Pa.
WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington 99, Del.

Molded Insulation Parts

ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 American Insulator Corp., New Freedom, Pa.
AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
BIWAX CORP., 3445 Howard St., Skokie, Ill. ADV. PG. 242.
 Boonton Molding Co., Boonton, N. J.
 Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
CENTRAL DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
 Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn.
 Consolidated Molded Products Corp., Scranton 2, Pa.
 Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
 Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
 Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
 Electronic Mechanics Inc., 70 Clifton Blvd., Clifton, N. J.
 Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
 Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
 Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
 Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
 Gries Reproducer Corp., 100 Willow Ave., New York 54, N. Y.
 Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
 Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
 Keasbey & Mattison, Ambler, Pa.
 Laminated Plastics, Inc., 14838 Euclid Ave., Cleveland 12, Ohio.
 Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
 Macallen Co., The, 16 Macallen St., Boston 27, Mass.
 Mack Molding Co., Wayne, N. J.
 Mayfair Molded Products Corp., 4440 N. Elston Ave., Chicago 30, Ill.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
 Mykroy Inc., Arlington Heights Airport, Arlington Heights, Ill.
 Northern Industrial Chemical Co., 7-11 Elkins St., South Boston 27, Mass.
 Remler Co., Ltd., 2101 Bryant St., San Francisco, Calif.
RICARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
ROGAN BROS., 2500 W. Irving Pk., Chicago 18, Ill. ADV. PG. 226.
 Scintilla-Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., So. Pasadena, Calif.
 Star Porcelain Co., 61 Muirhead Ave., Trenton 9, N. J.
 Taylor Fibre Co., Norristown, Pa.
 Waterbury Companies, Inc., Waterbury 90, Conn.
WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Wisconsin Porcelain Co., Sun Prairie, Wis.

Plastic Insulation Parts

ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 American Insulator Corp., New Freedom, Pa.
AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
 Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
 Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
 Beach Precision Parts Co., Boonton, N. J.
 Boonton Molding Co., Boonton, N. J.

Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.
CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 26, Ill. ADV. PG. 154.
 Consolidated Molded Prods. Corp., Scranton 2, Pa.
 Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Delaware.
 Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
 Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
 Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
 Formica Co., The, 4640 Spring Grove Ave., Cincinnati 32, Ohio.
 Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
 Gemloid Corp., 79-10 Albion Ave., Elmhurst, N. Y.
GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 Gits Molding Corp., 4600 W. Huron St., Chicago 14, Ill.
 Greenhut Insulation Co., 31 W. 21st St., New York 10, N. Y.
 Gries Reproducer Corp., 100 Willow Ave., New York 54, N. Y.
 Habermeld Mfg. Co., P. O. Box 476, Passaic, N. J.
 Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 Industrial Precision Products Co., 315-325 N. Hoyle Ave., Chicago 12, Ill.
 Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
 Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
 LaMagna Mfg. Co., Inc., East Rutherford, N. J.
 Lamicoid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 Mack Molding Co., Wayne, N. J.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 Micacraft Products Inc., 701 McCarter Highway, Newark 5, N. J.
 Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
 Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
NATIONAL VARNISHED PRODUCTS CORP., THE, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
 Nichols Products Co., Moorestown, N. J.
 Panelyte Div., St. Regis Paper Co., 230 Park Ave., New York 17, N. Y.
 Parisian Novelty Co., 3510 South Western Ave., Chicago 9, Ill.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
 Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
 Plastimold Corp., Attleboro, Mass.
 Plax Corp., P. O. Box 1019, Hartford, Conn.
 Printloid Inc., 95 Mercer St., New York, N. Y.
 Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
RICARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
ROGAN BROS., 2500 W. Irving Pk., Chicago 18, Ill. ADV. PG. 226.
 Scintilla-Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
 Sillocks-Miller Co., 10 Parker Ave. W., So. Orange, N. J.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
 Synthane Corp., Oaks, Pa.
 Taylor Fibre Co., Norristown, Pa.
VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.
 Waterbury Companies, Inc., Waterbury 90, Conn.
WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Rods

AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
 Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
 Beach Precision Parts Co., Boonton, N. J.
 Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
 Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
 Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
 Formica Co., The, 4640 Spring Grove Ave., Cincinnati 32, Ohio.

Franklin Fibre-Lamitex Corp., 12th & French Sts., Wilmington, Del.
GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 Insulating Fabricators of New England Inc., 69 Grove St., Watertown 72, Mass.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 Kirchner & Co., Inc., M., 1425 37th St., Brooklyn, N. Y.
 Lamicoid Fabricators Inc., 4545 W. Cortland St., Chicago 39, Ill.
 Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
 Mykroy Inc., Arlington Heights Airport, Arlington Heights, Ill.
 National Gasket & Washer Mfg. Co., Inc., 124 E. 25th St., New York 10, N. Y.
NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
 Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
 Printloid Inc., 95 Mercer St., New York, N. Y.
RICARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
 Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Spaulding Fibre Co. Inc., 310 Wheeler St., Tonawanda, N. Y.
 Synthane Corp., Oaks, Pa.
 Taylor Fibre Co., Norristown, Pa.
WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Screw Machine Parts

AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
CART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
BLAKE & JOHNSON CO., Waterville 48, Conn. ADV. PG. 223.
 Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
 Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
 Corbin Screw Div., American Hardware Corp., High Myrtle & Grove Sts., New Britain, Conn.
 Eastern Specialty Co., Philadelphia 40, Pa.
FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
 Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
 Heli-Coil Corp., 47-23 35th St., Long Island City 1, N. Y.
 Industrial Precision Products Co., 315-325 N. Hoyle Ave., Chicago 12, Ill.
INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
 Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
 Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
 Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
 La Magna Mfg. Co., Inc., East Rutherford, N. J.
 Lamicoid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
 Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
PRECISION METAL PRODUCTS CO. OF MALDEN, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
 Printloid Inc., 95 Mercer St., New York, N. Y.
 Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
 Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., So. Pasadena, Calif.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
V Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
V Synthane Corp., Oaks, Pa.
V Taylor Fibre Co., Norristown, Pa.
V U. S. Engineering Co., 531 Commercial St., Glendale 3, Calif.
V Vallorbs Jewel Co., Lancaster, Pa.

Sheets

VAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
VATLANTIC INDIA RUBBER WORKS, INC., 571 W. Polk St., Chicago 7, Ill. ADV. PG. 271.
V Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
V Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
V Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
V Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
V Formica Co., The, 4640 Spring Grove Ave., Cincinnati 32, Ohio.
V Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
V GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
V GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
V Johns-Manville, 22 E. 40th St., New York 16, N. Y.
V Lamicoid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
V Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
V Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
V MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
V Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
V NATIONAL VARNISHED PRODUCTS CORP., THE, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
V NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
V Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
V Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
V Printolid, Inc., 95 Mercer St., New York, N. Y.
V RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
V Rogers Corp., Manchester, Conn.
V Synthane Corp., Oaks, Pa.
V Taylor Fibre Co., Norristown, Pa.
V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Stampings & Punchings—Ceramic

VAmerican LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
VART-LLOYD METAL PRODS. CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
V CENTRALAB, DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
V Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
V GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
V Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
V Kircherberger & Co., Inc., M., 1425 37th St., Brooklyn 18, N. Y.
V Laconia Corp., 375 S. 6th St., Newark 7, N. J.
V Louthan Mfg. Co., East Liverpool, Ohio.
V Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
V Repath Co., Paul R., 641 E. 61st St., Los Angeles 1, Calif.
V Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
V Steward Mfg. Co., D. M. Chattanooga, Tenn.
V Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
V Whitehead Stamping Co., 1691 W. Lafayette Blvd., Detroit 16, Mich.
Willard's, Hampden, Mass.
V Wisconsin Porcelain Co., Sun Prairie, Wisconsin.

Stampings & Punchings—Fibre

VAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
VART-LLOYD METAL PRODS. CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
V Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
V Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
V Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
V CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
V Citation Products Co., 233 E. 146th St., New York 51, N. Y.

V Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
V Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
V Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
V Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
V Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
V Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
V Industrial Precision Products Co., 315-325 N. Hoynes Ave., Chicago 12, Ill.
V Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
V Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
V Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
V INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
V Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
V La Magna Mfg. Co., Inc., East Rutherford, N. J.
V Lamicoid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
V Mica Fabricating Co., 52 Central Ave., Rochelle Park, N. J.
V Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
V Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
V Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
V National Gasket & Washer Mfg. Co., 124 E. 25th St., New York 10, N. Y.
V NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
V Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
V RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
V Rogers Corp., Manchester, Conn.
V Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
V Taylor Fibre Co., Norristown, Pa.
V Whitehead Stamping Co., 1691 W. Lafayette Blvd., Detroit 16, Mich.
Willard's, Hampden, Mass.
V Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington 99, Del.

Stampings & Punchings—Paper—Mica

Aldine Paper Co., Inc., 535 5th Ave., New York 17, N. Y.
V Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
V Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
V Citation Products Co., 233 E. 146th St., New York 51, N. Y.
V Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
V Ford Radio & Mica Corp., 536 63rd St., Brooklyn, N. Y.
V Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
V GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
V Industrial Precision Products Co., 315-325 N. Hoynes Ave., Chicago 12, Ill.
V Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
V Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
V Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
V Lamicoid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
V Macallen Co., The, 16 Macallen St., Boston 27, Mass.
V Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
V MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
V Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
V Moore Co., Howard J., 108 Park Row, New York, N. Y.
V National Electric Coil Co., Columbus 16, Ohio.
V Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
V Whitehead Stamping Co., 1691 W. Lafayette Blvd., Detroit 16, Mich.

Tapes, Insulating

V Acme Wire Co., New Haven 4, Conn.
V Aldine Paper Co., 535 5th Ave., New York 17, N. Y.
V Bauer & Black, 222 W. Adams St., Chicago, Ill.
V BISHOP MFG. CORP., 254 W. 31st St., New York 1, N. Y. ADV. PG. 255.
V BRAND & CO., Wm., Williamant Conn. ADV. PG. 120, 121.
V Brown-Bridge Mills Inc., Troy, Ohio.

V Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn.
V Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
V Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
V Dobeckmunk Co., The, Industrial Products Div., Cleveland 1, Ohio.
V Dow Corning Corp., Midland, Mich.
V du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
V GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
V GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
V Industrial Tape Corp., New Brunswick, N. J.
V Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
V Johns-Manville, 22 E. 40th St., New York 16, N. Y.
V Keasbey & Mattison, Amblar, Pa.
V Linton & Bros. Inc., Horace, 3081 Ruth St., Philadelphia 34, Pa.
V Macallen Co., The, 16 Macallen St., Boston 27, Mass.
V Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
V MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
V Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul 6, Minn.
V National Electric Coil Co., Columbus 16, Ohio.
V NATIONAL VARNISHED PRODUCTS CORP., 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
V U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
V Wright & Sons Co., Wm. E., West Warren, Mass.

INSULATORS—Antenna Insulators & Spring Assemblies

V Aeronautical Radio Mfg. Co., 155 First Street, Mineola, N. Y.
V Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
V FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
V GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
V Isolantite Mfg. Corp., Stirling, N. J.
V J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
V Johnson Co., E. F., Waseca, Minn.
V Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
V Lapo Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
V Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
V Mueller Electric Co., 1583 E. 31st St., Cleveland 14, Ohio.
V Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
V Premax Prods. Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
V Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
V Taylor Fibre Co., Norristown, Pa.
V TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
V Ward Products Corp., Div. of the Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
V Wind Turbine Co., Tower & Antenna Div., E. Market St., & Penna. R. R., West Chester, Pa.

INSULATORS—Can Liner

Acme Folding Box Co., Inc., 141 E. 25th St., New York, N. Y.
V Lamicoid Fabricators, Inc., 4545 Cortland St., Chicago 39, Ill.
V Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
V Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
V PRECISION PAPER TUBE CO., 2033 W. Charleston St., Chicago 47, Ill. ADV. PG. 215.
V Rogers Corporation, Manchester, Conn.
V Vokar Corp., 7300 Huron River Drive, Dexter, Mich.

INSULATORS—Ceramic

VAmerican LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
V Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
V Bird Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
V CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
V Crowley & Co., Inc., Henry L., 1 Central Ave., West Orange, N. J.
V ELECTRICAL INDUSTRIES, INC., 44 Summer Ave., Newark 4, N. J. ADV. PG. 217.
Electronic Mechanics, Inc., 70 Clifton Blvd., Clifton, N. J.
V GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
V Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ✓ Isolantite Mfg. Corp., Stirling, N. J.
- ✓ Johnson Co., E. F., Waseca, Minn.
- ✓ Kirchberger & Co. Inc., M., 1425 37th St., Brooklyn 18, N. Y.
- ✓ Laconia Corp., 37 S. 6th St., Newark 7, N. J.
- ✓ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- ✓ Louthan Mfg. Co., East Liverpool, Ohio.
- ✓ Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
- ✓ MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- ✓ Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
- ✓ National Ceramic Co., 400 Southard St., Trenton 2, N. J.
- ✓ Norton Co., 1 New Bond St., Worcester 6, Mass.
- ✓ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75; Inside Back and Back Covers.
- ✓ Scintilla-Magneto Div. of Bendix Aviation Corp., Sidney, N. Y.
- ✓ Star Porcelain Co., 61 Muirhead Ave., Trenton 9, N. J.
- ✓ Steward Mfg. Co., D. M., Chattanooga, Tenn.
- ✓ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- ✓ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- ✓ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ✓ Wisconsin Porcelain Co., Sun Prairie, Wis.

INSULATORS—Feeder Spreader

- ✓ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- ✓ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ✓ Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ✓ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ Isolantite Mfg. Corp., Stirling, N. J.
- ✓ Johnson Co., E. F., Waseca, Minn.
- ✓ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- ✓ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ✓ National Ceramic Co., 400 Southard St., Trenton 2, N. J.
- ✓ Printloid, Inc., 95 Mercer St., New York, N. Y.
- ✓ Steward Mfg. Co., D. M., Chattanooga, Tenn.
- ✓ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.

INSULATORS—Fused Quartz

- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ GENERAL ELECTRIC CO., Lamp Dept., Nela Park, Cleveland 12, Ohio. ADV. PG. 5 to 18.
- ✓ Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
- ✓ Sincor Products Co., Malden, Mass.
- ✓ Thermal Syndicate Ltd., 12 E. 46th St., New York 17, N. Y.
- ✓ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.

INSULATORS—High Dielectric Paper

- ✓ Acme Wire Co., New Haven 14, Conn.
- ✓ Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- ✓ Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- ✓ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- ✓ CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- ✓ Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- ✓ Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
- ✓ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- ✓ Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
- ✓ PRECISION PAPER TUBE CO., 2033 W. Charleston St., Chicago 47, Ill. ADV. PG. 215.
- ✓ Rogers Corp., Manchester, Conn.
- ✓ Schweitzer Inc., Peter J., 405 Lexington Ave., New York 17, N. Y.
- ✓ Stevens Products Inc., 86-88 Main St., East Orange, N. J.
- ✓ Sincor Products Co., Malden, Mass.
- ✓ Taylor Fibre Co., Norristown, Pa.
- ✓ Willard's, Hampden, Mass.
- ✓ Wisconsin Porcelain Co., Sun Prairie, Wis.

INSULATORS—Mast Guy

- ✓ CENTRALAB DIV., GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- ✓ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- ✓ Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- ✓ Isolantite Mfg. Corp., Stirling, N. Y.
- ✓ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- ✓ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- ✓ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ✓ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- ✓ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.

INSULATORS—Passthrough & Bushing

- ✓ Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- ✓ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- ✓ CENTRALAB DIV., GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- ✓ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- ✓ Electronic Mechanics Inc., 70 Clifton Blvd., Clifton, N. J.
- ✓ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- ✓ HERMETIC SEAL PRODUCTS CO., 29-37 S. 6th St., Newark 7, N. J. ADV. PG. 87.
- ✓ HEYMAN MFG. CO., 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
- ✓ Industrial Precision Products Co., 315-325 N. Hoyle Ave., Chicago 12, Ill.
- ✓ Isolantite Mfg. Corp., Stirling, N. J.
- ✓ Johnson Co., E. F., Waseca, Minn.
- ✓ Laconia Corp., 37 S. 6th St., Newark 7, N. J.
- ✓ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- ✓ Litton Industries, San Carlos, Calif.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- ✓ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ✓ MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- ✓ Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
- ✓ PRECISION METAL PRODUCTS CO. OF MALDEN, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- ✓ Printloid, Inc., 95 Mercer St., New York, N. Y.
- ✓ Steward Mfg. Co., D. M., Chattanooga, Tenn.
- ✓ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- ✓ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- ✓ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ✓ Wisconsin Porcelain Co., Sun Prairie, Wis.

INSULATORS—Standoff & Cone

- ✓ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- ✓ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- ✓ Beach Precision Parts Co., Boonton, N. J.
- ✓ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ✓ Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ✓ CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- ✓ CENTRALAB DIV., GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- ✓ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- ✓ Electronic Mechanics Inc., 70 Clifton Blvd., Clifton, N. J.
- ✓ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ✓ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- ✓ HERMETIC SEAL PRODUCTS CO., 29-37 S. 6th St., Newark 7, N. J. ADV. PG. 87.
- ✓ House of Television Inc., 40 W. 4th St., New York 14, N. Y.
- ✓ Industrial Precision Products Co., 315-325 N. Hoyle Ave., Chicago 12, Ill.
- ✓ Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- ✓ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ✓ Isolantite Mfg. Corp., Stirling, N. J.
- ✓ Johnson Co., E. F., Waseca, Minn.
- ✓ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.

- ✓ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ✓ National Ceramic Co., 400 Southard St., Trenton 2, N. J.
- ✓ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- ✓ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ✓ Plasticscraft Products Co., 20 Houston St., New York 13, N. Y.
- ✓ Plastimold Corp., Attleboro, Mass.
- ✓ Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- ✓ PRECISION METAL PRODUCTS CO. OF MALDEN, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- ✓ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- ✓ Printloid, Inc., 95 Mercer St., New York, N. Y.
- ✓ South River Metal Products Co., South River, N. J.
- ✓ Steward Mfg. Co., D. M., Chattanooga, Tenn.
- ✓ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- ✓ Sincor Products Co., Malden, Mass.
- ✓ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- ✓ WINCHESTER ELECTRONICS, INC., Glenbrook, Conn. ADV. PG. 203.
- ✓ Wisconsin Porcelain Co., Sun Prairie, Wis.

INSULATORS—Strain

- ✓ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- ✓ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ✓ Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- ✓ CENTRALAB DIV., GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- ✓ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ✓ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- ✓ HEYMAN MFG. CO., 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
- ✓ Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- ✓ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ✓ Isolantite Mfg. Corp., Stirling, N. J.
- ✓ Johnson Co., E. F., Waseca, Minn.
- ✓ Laminated Plastics Inc., 14838 Euclid Ave., Cleveland 12, Ohio.
- ✓ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- ✓ Macallen Co., The, 16 Macallen St., Boston 27, Mass.
- ✓ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ✓ Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
- ✓ National Ceramic Co., 400 Southard St., Trenton 2, N. J.
- ✓ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- ✓ Steward Mfg. Co., D. M., Chattanooga, Tenn.
- ✓ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- ✓ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- ✓ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ✓ Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.
- ✓ Wisconsin Porcelain Co., Sun Prairie, Wis.

INSULATORS—Test Clip

- ✓ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ✓ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ✓ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.

INSULATORS—Thermocouple

- ✓ Isolantite Mfg. Corp., Stirling, N. J.
- ✓ Kirchberger & Co. Inc., M., 1425 37th St., Brooklyn 18, N. Y.
- ✓ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ✓ Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
- ✓ Steward Mfg. Co., D. M., Chattanooga, Tenn.
- ✓ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.
- ✓ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- ✓ Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.
- ✓ Wisconsin Porcelain Co., Sun Prairie, Wis.

INSULATORS—Tower

- ✓ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
- Ⓢ Wind Turbine Co., Tower & Antenna Div., E. Market St., & Penna. R. R., West Chester, Pa.
- Ⓢ Wisconsin Porcelain Co., Sun Prairie, Wis.

INSULATORS—Transmitting Antenna

- Ⓢ AMERICAN LAVA CORP., Chattanooga 5, Tenn. ADV. PG. 27.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ CENTRAL LAB DIV., GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓢ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓢ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓢ GENERAL CERAMICS & STEATITE CORP., Kearsbey, N. J. ADV. PG. 219.
- Ⓢ Industrial Precision Products Co., 315-325 N. Hoyne Ave., Chicago 12, Ill.
- Ⓢ Insulantite Mfg. Corp., Stirling, N. J.
- Ⓢ Johnson Co., E. F. Waseca, Minn.
- Ⓢ Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓢ Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
- Ⓢ Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Ⓢ Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- Ⓢ Wisconsin Porcelain Co., Sun Prairie, Wis.

INTEGRATORS—Electronic

- Applied Science Corp. of Princeton, The, P. O. Box 144, Princeton, N. J.
- Ⓢ ARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
- Ⓢ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓢ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
- Ⓢ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- Ⓢ Electronic Associates, Inc., Long Branch, N. J.
- Ⓢ Electronic Mechanical Products Co., 13-15-17 N. Virginia Ave., Atlantic City, N. J.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit, Mich. ADV. PG. 255.
- Ⓢ Philbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
- Ⓢ Radioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
- Ⓢ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
- Ⓢ Technitrol Engineering Co., 3212 Market St., Philadelphia, Pa.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

INTERCOMMUNICATION SYSTEMS

- Ⓢ Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓢ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓢ American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓢ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓢ AVIOMETER DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓢ Bell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio.
- Ⓢ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- Ⓢ Boom Electric & Amplifier Co., 1227 W. Washington Blvd., Chicago 7, Ill.
- Ⓢ Connecticut Telephone & Electric Div., Great American Industries, 70 Britannia St., Meriden, Conn.
- Ⓢ Cooper Electronic Products Co., 5106 Frankford Ave., Phila. 24, Pa.
- Ⓢ Dalmo Victor Co., 1414 El Camino Real, San Carlos, California.
- Ⓢ Executone Inc., 415 Lexington Ave., New York 17, N. Y.
- Ⓢ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- Ⓢ Godfrey Mfg. Co., 171 S. 2nd St., Milwaukee 4, Wis.
- Ⓢ Gray Mfg. Co., The, 16 Arbor St., Hartford, Conn.
- Ⓢ Hart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.

- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Ⓢ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓢ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Lake Mfg. Co., 2323 Chestnut St., Oakland 7, Calif.
- Ⓢ Lodge Sound Engineers, J. M., 2171 W. Washington Blvd., Los Angeles 7, Calif.
- Ⓢ Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
- Ⓢ National Intercommunicating Systems, 1531 Devon Ave., Chicago 26, Ill.
- Ⓢ Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
- Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- Ⓢ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ Rauland-Borg Corp., 3523 W. Addison St., Chicago 18, Ill.
- Ⓢ Remler Co., Ltd., 2101 Bryant St., San Francisco, Calif.
- Ⓢ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓢ Simpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ Talk-A-Phone Mfg. Co., 1512 S. Pulaski Rd., Chicago 23, Ill.
- Ⓢ Tel Autograph Corp., 16 W. 61st St., New York 23, N. Y.
- Telephonics Corp., Park Ave., Huntington, N. Y.
- Ⓢ U. S. Instrument Corp., 409 Broad St., Summit, N. J.
- Ⓢ Webster Electric Co., 1900 Clark St., Racine, Wis.
- Ⓢ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

INVERTERS

- Ⓢ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275.
- American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- Ⓢ AMERICAN TELEVISION & RADIO CO., 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- Ⓢ Continental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.
- Ⓢ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓢ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- Ⓢ ECLIPSE-PIONEER DIV., BENDIX AVIATION CORP., Teterboro, N. J. ADV. PG. 176.
- Ⓢ Elcor, Inc., 1501 W. Congress St., Chicago 7, Ill.
- Ⓢ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓢ Leland Electric Co., The, 1501 Webster St., Dayton 1, Ohio.
- Ⓢ Lorain Products Corp., 1122 F St., Lorain, Ohio.
- Ⓢ Radiart Corp., The, 3571 W. 62nd St., Cleveland 2, Ohio.
- Ⓢ Rangertone, Inc., 73 Winthrop St., Newark 4, N. J.
- Ⓢ RED BANK DIVISION, BENDIX AVIATION CORP., Red Bank, N. J. ADV. PG. 61, 127.
- Ⓢ SORENSEN & CO., INC., 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
- Ⓢ Soundscriber Corp., 146 Munson St., New Haven 4, Conn.
- Stancii-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- Ⓢ Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

IRONS—Electric Soldering

- Ⓢ Acme Electric Heating Co., 1217 Washington St., Boston, Mass.
- Ⓢ American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
- Ⓢ Drake Electric Works, 3656 Lincoln Ave., Chicago 13, Ill.
- Ⓢ Dual-Remote Control Co., Garden City, Mich.
- Ⓢ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓢ ELECTRIC SOLDERING IRON CO., W. Elm St., Deep River, Conn. ADV. PG. 106.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Hexacon Electric Company, 130 W. Clay Ave., Roselle Park, N. J.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ Kelnor Mfg. Co., 215 Kearny St., San Francisco 8, Calif.
- Ⓢ Kemode Mfg. Co., 161 W. 18th St., New York 11, N. Y.
- Ⓢ Kwikheat Mfg. Co., 3722 San Fernando Road, Glendale 4, Calif.
- Ⓢ Lenk Mfg. Co., 30 Cummington St., Boston 15, Mass.
- Ⓢ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- Multi-Products Tool Co., 123 Sussex Ave., Newark 4, N. J.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

- Ⓢ Stanley Works, The, New Britain, Conn.
- Ⓢ Transvision, Inc., 460 North Ave., New Rochelle, N. Y.
- Ⓢ Ungar Electric Tools, Inc., 615 Ducommun St., Los Angeles 54, Calif.
- Ⓢ VULCAN ELECTRIC CO., 88 Holten St., Danvers, Mass. ADV. PG. 226.
- Ⓢ Weller Mfg. Co., 806 Packer St., Easton, Pa.

ISOLATION COUPLER—f-m Antenna

- Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- Ⓢ Johnson Co., E. F. Waseca, Minn.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

ISOTOPES—Radioactive

- Ⓢ Nuclenic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓢ Tracerlab, Inc., 130 High St., Boston 10, Mass.
- Ⓢ U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

JACKS

See Plugs and Jacks

JEWELS—Glass

- Ⓢ BIRD CO., RICHARD H., 1 Spruce St., Waltham, Mass. ADV. PG. 214.
- Ⓢ Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓢ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Kilburn Glass Co., Inc., J. R., 22 S. Worcester St., Charley, Mass.
- Ⓢ Smith, Inc., Herman H., 405-44th St., Brooklyn 20, N. Y.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

JUMPERS—Bonding

- Ⓢ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- Ⓢ Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓢ Rattan Mfg. Co., The, P. O. Box 1745, New Haven 7, Conn.
- Star Measurements Co., 442 E. 166th St., New York 56, N. Y.
- Ⓢ Whitaker Cable Corp., Kansas City 16, Mo.

KEYERS & COUPLERS

- Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ Boehme Inc., H. O., 915 Broadway, New York 10, N. Y.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Erco Radio Labs, Inc., E. Stewart Ave., Garden City, N. Y.
- Ⓢ Gates Radio Co., Quincy, Ill.
- Ⓢ McElroy Mfg. Corp., Littleton, Mass.
- Ⓢ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantiguas Rd., Hicksville, L. I., N. Y.
- Ⓢ Ultradyne Electronics, Oswego, Oregon.

KEYS & CODING EQUIPMENT

- Ⓢ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓢ Boehme Inc., H. O., 915 Broadway, New York 10, N. Y.
- Ⓢ Brelco Electronics Corp., 55 Vandam St., New York 13, N. Y.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.
- Hose-McCann Telephone Co., Inc., 25th St. and 3rd Ave., Brooklyn 32, N. Y.
- Ⓢ Johnson Co., E. F. Waseca, Minn.
- Ⓢ McElroy Mfg. Corp., Littleton, Mass.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Telephonics Corp., Park Ave., Huntington, N. Y.
- Ⓢ Vibroplex Co., Inc., 833 Broadway, New York, N. Y.

KILOVOLTMETERS

- Ⓢ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓢ BETA ELECTRIC CORP., 1762 3rd Ave., New York 29, N. Y. ADV. PG. 171.
- Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.
- Ⓢ Burlington Instrument Co., Burlington, Iowa.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.

V indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

- ⓋElectric Design & Mfg. Corp., Burlington, Iowa.
- ⓋElectronic Brazing Co., 140 Glenridge Ave., Montclair, N. J.
- ⓋEsterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ⓋGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓋHEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- ⓋIndustrial Devices, Inc., 22 State Rd., Edgewater, N. J.
- ⓋManufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ⓋMARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ⓋMeters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ⓋOak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- ⓋRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓋRAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- ⓋSensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- ⓋSHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- ⓋSimpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ⓋStar Measurements Co., 442 E. 166th St., New York 56, N. Y.
- ⓋSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- ⓋTriplet Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- ⓋWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

KLAYSTRON
See Tubes

KNOBBS—Plastic Molded

- ⓋALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- American Insulator Corp., New Freedom, Pa.
- ⓋBarber-Colman Co., Rockford, Ill.
- ⓋCatalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- ⓋCelomat Corp., 521 W. 23rd St., New York, N. Y.
- ⓋChicago Die Mold Mfg. Co., 4001 Wrightwood Ave., Chicago 39, Ill.
- Cole-Hersey Co., 20 Old Colony Ave., Boston 27, Mass.
- ⓋConsolidated Molded Products Corp., Scranton 2, Pa.
- ⓋCutler-Hammer, Inc., 411 S. 12th St., Milwaukee 1, Wis.
- ⓋFEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- ⓋGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓋGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓋGits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
- Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- ⓋINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓋJ F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- ⓋJohnson Co., E. F., Waseca, Minn.
- ⓋKurz-Kasch, Inc., 1415 S. Broadway, Dayton 1, Ohio.
- ⓋMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓋMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓋNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ⓋNorthern Industrial Chemical Co., 7-11 Elkins St., South Boston 27, Mass.
- ⓋPATENT BUTTON CO. OF TENNESSEE, 2005 Century St., Knoxville, Tenn. ADV. PG. 270.
- ⓋPhilco Corp., Tioga and C Sts., Philadelphia 34, Pa.
- ⓋPlastimold Corp., Attleboro, Mass.
- ⓋRemler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- ⓋRICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- ⓋROGAN BROS., 2500 W. Irving Pk., Chicago 18, Ill. ADV. PG. 226.
- ⓋSmith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- ⓋTaylor Fibre Co., Norristown, Pa.
- Tech-Master Products Co., 443-5 Broadway, New York 13, N. Y.
- ⓋTechnology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ⓋWaterbury Companies, Inc., Waterbury 90, Conn.

KNOBBS—Wooden

- ⓋPhilco Corp., Tioga and C Sts., Philadelphia 34, Pa.
- Syracuse Ornamental Co., Inc., 581 S. Clinton St., Syracuse, N. Y.

LACQUER

See Insulating Compounds

LAMINATIONS—Transformer

- Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- ⓋEastern Specialty Co., Philadelphia 40, Pa.
- ⓋGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓋKOBZY TOOL CO., 1535 N. Dayton Ave., Chicago 22, Ill. ADV. PG. 165.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- ⓋMagnetic Metals Co., Hayes Ave. at 21st St., Camden, N. J.
- ⓋMasonite Corp., 111 W. Washington St., Chicago 2, Ill.
- ⓋRepach Co., Paul R., 641 E. 61st St., Los Angeles 1, Calif.
- ⓋRICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- ⓋSherman Lamination Co., The, Stratford, Conn.
- Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
- ⓋStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓋSuper Electric Products Corp., 46 Oliver St., Newark, N. J.
- ⓋThomas & Skinner Steel Products Co., 1122 E. 23rd St., Indianapolis, Ind.
- ⓋThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- ⓋWade Electric Products Co., 211 Jacob St., Sturgis, Mich.
- ⓋWebster-Chicago Corp., 5622 Bloomingdale Ave., Chicago 39, Ill.
- ⓋWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

LANDING SYSTEMS—Microwave

- ⓋAir Associates, Inc., Teterboro, N. J.
- American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- ⓋPhilco Corp., Tioga & C Sts. Philadelphia 34, Pa.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓋSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

LEADS—Test

- ⓋAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- ⓋALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ⓋBooth Co., Arthur E., 4124 Beverly Blvd., Los Angeles 4, Calif.
- ⓋCitation Products Co., 233 E. 146th St., New York 51, N. Y.
- ⓋCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Douglas Radio Labs., 40 Wayland St., Boston 25, Mass.
- ⓋEastern Specialty Co., Philadelphia 40, Pa.
- ⓋGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓋINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓋJ F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- ⓋKeystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- ⓋKings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- ⓋSimpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ⓋSmith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Star Measurements Co., 442 E. 166th St., New York 56, N. Y.
- ⓋUni Products, Inc., 1048 Potomac St., N. W., Washington 7, D. C.

LEATHERETTE

- ⓋHolliston Mills, Inc., Norwood, Mass.
- ⓋU. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.

LENSES—Television

- ⓋBack Video Corp., F. G., Room 2223, 500 Fifth Ave., New York, N. Y.
- ⓋTelevision Zoomar Corp., Room 2223, 500 Fifth Ave., New York, N. Y.

LENSES—Television Magnifying

- Arc Radio Corp., 523 Myrtle Ave., Brooklyn, N. Y.
- ⓋBache & Co., Semon, 636 Greenwich St., New York 14, N. Y.
- ⓋBausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- ⓋCelomat Corp., 521 W. 23rd St., New York, N. Y.
- ⓋDeitz Miracle Lens Co., 141 President St., Passaic, N. J.
- Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
- ⓋFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- ⓋHouse of Television 40 W. 4th St., New York 12, N. Y.
- ⓋHunton Plastics Co., 178 S. Van Brunt St., Englewood, N. J.
- ⓋLouis Bros., 3543 E. 16th St., Los Angeles 23, Calif.
- ⓋMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Polan Industries, 220 Eighth Street, Huntington, W. Va.
- ⓋPrecision Plastic Products, Inc., 628-30 W. Lake St., Chicago 6, Ill.
- Thalf Plastic Engineering Co., 155 Chambers St., New York, N. Y.
- ⓋTransvision, Inc., 460 North Ave., New Rochelle, N. Y.

LENSES—Television Projection

- ⓋBache & Co., Semon, 636 Greenwich St., New York 14, N. Y.
- ⓋBausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- ⓋFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- Polan Industries, 220 Eighth St., Huntington, W. Va.
- ⓋViewlex, Inc., 35-01 Queens Blvd., Long Island City 1, N. Y.

LIE DETECTORS—Electronic

- ⓋAssociated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.

LIGHTNING ARRESTORS

See Arrestors

LIGHTS—Dial and Panel

- ⓋAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- ⓋALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- ⓋAmerican Electronics Corp., 226 N. Fourth St., Columbus 15, Ohio.
- ⓋBud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ⓋDIAL LIGHT CO. OF AMERICA, INC., 900 Broadway, New York 3, N. Y. ADV. PG. 50.
- ⓋDrake Mfg. Co., 1713 Hubbard St., Chicago 22, Ill.
- ⓋFEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- ⓋFranklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- ⓋGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓋGENERAL ELECTRIC CO., Lamp Dept., Nela Park, Cleveland 12, Ohio. ADV. PG. 5 to 18.
- ⓋHart Mfg. Co., 110 Bartholomew Ave., Hartford 1, Conn.
- ⓋIndustrial Devices, Inc., 22 State Rd., Edgewater, N. J.
- ⓋJohnson Co., E. F., Waseca, Minn.
- ⓋKirkland Co., H. R., The, 8 King St., Morristown, N. J.
- ⓋMarco Industries, 210 S. Clementine, Anaheim, Calif.
- ⓋMorse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
- ⓋRUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
- ⓋSmith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- ⓋSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- ⓋTUNG-SOL LAMP WORKS, INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
- ⓋWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

LIGHTS—Photoelectric Source

- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- ⓋALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- ⓋAMERICAN CHRONOSCOPE CORP., 316 W. First St., Mt. Vernon, N. Y. ADV. PG. 84.
- ⓋElectronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- ⓋFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- ⓋGENERAL ELECTRIC CO., Lamp Dept., Nela Park, Cleveland 12, Ohio. ADV. PG. 5 to 18.
- ⓋIndustrial Electronics Co., Inc., Hanover, Mass.
- ⓋLelectro-Max Inc., 15 S. First St., Geneva, Ill.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Lumenite Electric Co., 407 So. Dearborn St., Chicago, Ill.

ⓈPhotobell Company, 116 Nassau St., New York 7, N. Y.
 Ridley Co., Inc., P. O. Box 31, Middletown, Conn.
 ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

LIGHTS—Pilot

ⓈAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 ⓈALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 ⓈAmerican Electronics Corp., 226 No. Fourth St., Columbus 15, Ohio.
 ⓈCannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
 ⓈClark Controller Co., The, 1146 E. 152nd St., Cleveland 10, Ohio.
 ⓈCole-Hershe Co., 20 Old Colony Ave., Boston 27, Mass.
 ⓈDIAL LIGHT CO. OF AMERICA, INC., 900 Broadway, New York 3, N. Y. ADV. PG. 50.
 ⓈDrake Mfg. Co., 1713 Hubbard St., Chicago 22, Ill.
 ⓈFEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 ⓈFranklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
 ⓈGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 ⓈGENERAL ELECTRIC CO., Lamp Dept., Nela Park, Cleveland 12, Ohio. ADV. PG. 5 to 18.
 ⓈHart Mfg. Co., 110 Bartholomew Ave., Hartford 1, Conn.
 ⓈHerzog Miniature Lamp Works, Inc., 12-23 Jackson Ave., Long Island City 1, N. Y.
 ⓈIndustrial Devices Inc., 22 State Rd., Edgewater, N. J.
 ⓈJohnson Co., E. F., Waseca, Minn.
 ⓈKirkland Co., H. R., The, 8 King St., Morristown, N. J.
 ⓈKulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
 ⓈMarco Industries Co., 210 So. Clementine, Anaheim, Calif.
 ⓈMorse Co., Frank W., 1300 Soldiers Field Rd., Boston 25, Mass.
 ⓈNorth American Electric Lamp Co., 1014 Tyler St., St. Louis 6, Mo.
 ⓈR. B. M. Division, Essex Wire Corp., Logansport, Ind.
 ⓈRUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
 ⓈSmith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 ⓈTING-SOL LAMP WORKS, INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
 ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

LIGHTS—Signal

ⓈAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 ⓈAT Associates, Inc., Teterboro, N. J.
 ⓈAllis-Chalmers Mfg. Co., 935 South 70th St. Milwaukee 1, Wis.
 ⓈAmerican Electronics Corp., 266 N. Fourth St., Columbus 15, Ohio.
 ⓈAnglo Corp., 4234 Lincoln Ave., Chicago 18, Ill.
 ⓈCannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
 ⓈDIAL LIGHT CO. OF AMERICA, INC., 900 Broadway, New York 3, N. Y. ADV. PG. 50.
 ⓈDrake Mfg. Co., 1713 Hubbard St., Chicago 22, Ill.
 ⓈFEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 ⓈGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 ⓈGENERAL ELECTRIC CO., Lamp Dept., Nela Park, Cleveland 12, Ohio. ADV. PG. 5 to 18.
 ⓈIndustrial Devices, Inc., 22 State Rd., Edgewater, N. J.
 ⓈJohnson Co., E. F., Waseca, Minn.
 ⓈKemiite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
 ⓈKirkland Co., H. R., The, 8 King St., Morristown, N. J.
 ⓈKulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
 ⓈMarco Industries Co., 210 So. Clementine, Anaheim, Calif.
 ⓈSmith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

LIGHTS—Stroboscopic Source

Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 ⓈAnglo Corp., 4234 Lincoln Ave., Chicago 18, Ill.
 ⓈCommunication Measurements Lab., Inc., 120 Greenwith St., New York, N. Y.
 ⓈGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.

ⓈHuggins Laboratories, 734 Hamilton Ave., Menlo Park, Calif.
 ⓈKemiite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
 ⓈNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 ⓈO'Connor & Co., John T., West Orange, N. J.
 ⓈSYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
 ⓈWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

LINKS—Antenna

ⓈAeronautical Radio Mfg. Corp., 155 First St., Mineola, N. Y.
 ⓈAndrew Corp., 363 E. 75th St., Chicago 19, Ill.
 ⓈBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 ⓈJohnson Co., E. F., Waseca, Minn.
 ⓈProduct Development Co., Inc., Arlington, N. J.
 ⓈU. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
 ⓈWard Products Corp., Div. of The Gabriel Corp., 1523 E. 45th St., Cleveland 3, Ohio.
 ⓈWind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.

LITHIUM COMPOUNDS

See Metals

LOCATORS—Electronic Metal Locators & Detectors

ⓈAllis Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
 Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
 Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
 Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.
 ⓈRadiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 ⓈRacon Electric Co., 52 E. 19th St., New York 3, N. Y.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 ⓈRADIO FREQUENCY LABS., INC., Boonton 2, N. J. ADV. PG. 172.

LOCATORS—Power Line Failure

ⓈAirelectron, Inc., P. O. Box 151, Caldwell, N. J.
 ⓈDeutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
 ⓈElectronic Associates, Inc., Long Branch, N. J.
 Eltron Inc., 407 N. Jackson St., Jackson, Mich.
 ⓈHathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
 Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
 ⓈRadar Engineers, 110 University Place, Seattle 1, Wash.

LOCATORS—Radio Interference

ⓈDeutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
 Eltron, Inc., 407 N. Jackson St., Jackson, Mich.
 ⓈFerris Instrument Co., 110 Cornelia St., Boonton, N. J.
 ⓈMEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
 ⓈSprague Electric Co., North Adams, Mass.

LOCKS—Dial

ⓈBud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
 ⓈCAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 ⓈCitation Products Co., 233 E. 146th St., New York 51, N. Y.
 ⓈGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 ⓈJohnson Co., E. F., Waseca, Minn.
 ⓈMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 ⓈNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.

LOCKS—Shaft

ⓈBud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
 ⓈCAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 ⓈCitation Products Co., 233 E. 146th St., New York 51, N. Y.
 ⓈMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 ⓈNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.

LORAN NAVIGATIONAL DEVICES

ⓈCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 ⓈHARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRadiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
 ⓈSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
 VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
 Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

LOUDSPEAKER DRIVER UNITS

ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 ⓈAtlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
 ⓈCommercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
 ⓈDilks Co., The, Seymour, Conn.
 ⓈELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
 ⓈJENSEN MFG. CO., 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91.
 ⓈLansing Sound, Inc., James B., 2439 Fletcher Drive, Los Angeles 26, Calif.
 ⓈOperadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
 ⓈRacon Electric Co., 52 E. 19th St., New York 3, N. Y.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Radio-Music Corp., Port Chester, N. Y.
 ⓈSignet Development Co., 188 W. Randolph St., Chicago 1, Ill.
 Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
 ⓈUNIVERSITY LOUDSPEAKERS INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.

LOUDSPEAKERS

ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 ⓈBest Mfg. Co., Inc., 1200 Grove St., Irvington 11, N. J.
 ⓈBozak, R. T., 90 Montrose Ave., Buffalo 14, N. Y.
 ⓈBritish Industries Corp., 164 Duane St., New York 13, N. Y.
 Brociner Electronics Laboratory, 1546 Second Ave., New York 28, N. Y.
 ⓈCarbonneau Industries, Inc., Grand Rapids, Mich.
 ⓈCinaudagraph Speakers, Inc., Division of Aireon Mfg. Corp., 1401 Fairfax Trafficway, Kansas City, Kansas.
 Cleveland Electronics, Inc., 6611 Euclid Ave., Cleveland, Ohio.
 ⓈCommercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
 ⓈCrescent Industries, Inc., 4140 Belmont Ave., Chicago 41, Ill.
 DX Radio Products Co. Inc., 2304 Armitage Ave., Chicago 47, Ill.
 ⓈDelco Radio Div., General Motors Corp., Kokomo, Ind.
 ⓈDilks Co., The, Seymour, Conn.
 ⓈELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
 ⓈGalbraith & Son, Inc., C. C., 450-454 Avenue of the Americas, New York 11, N. Y.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 ⓈGoodmans Industries, Ltd., Lancelot Rd., Wembley, Middlesex, England.
 Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
 ⓈHoll Audio Industries, Hollywood Station Box 1230, Hollywood 28, Calif.
 ⓈHorton Machine Products Co., Horton & Rockaway Aves., Valley Stream, N. Y.
 ⓈJENSEN MFG. CO., 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91.
 ⓈKellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
 ⓈLansing Sound Inc., James B., 2439 Fletcher Drive, Los Angeles 26, Calif.
 ⓈMagnavox Co., The, Components Div., Fort Wayne 4, Ind.
 ⓈMellaphone Corp., Rochester 2, N. Y.
 ⓈMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Phila., Pa.
 ⓈNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 ⓈOperadio Mfg. Co., 135th and Indiana Sts., St. Charles, Ill.
 ⓈOxford Electric Corp., 3911 S. Michigan Ave., Chicago 15, Ill.
 ⓈPermoflux Corp., 4900 W. Grand Avenue, Chicago 39, Ill.
 ⓈPhilco Corp., Tioga and C Sts., Philadelphia 34, Pa.
 ⓈPICKERING & CO., 309 Woods Ave., Oceanside, L. I., N. Y. ADV. PG. 234.
 ⓈQUAM NICHOLS CO., 526 E. 33rd Pl., Chicago 16, Ill. ADV. PG. 251.
 ⓈRacon Electric Co., 52 E. 19th St., New York 3, N. Y.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓂRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
Radio-Music Corp., Port Chester, N. Y.
ⓂROLA CO., INC., THE, 2530 Superior Ave., Cleveland 14, Ohio. ADV. PG. 43.
ⓂSignet Development Co., 188 W. Randolph St., Chicago 1, Ill.
ⓂSoundscriber Corp., 146 Munson St., New Haven 4, Conn.
Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
ⓂSterling Engineering Co., Laconia, N. H.
Taybern Equipment Co., Inc., 120 Greenwich St., New York, N. Y.
ⓂUNIVERSITY LOUDSPEAKERS, INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.
Utah, Inc., E. Franklin St., Huntington, Ind.
ⓂZenith Radio Corp., 601 Dickens Ave., Chicago 39, Ill.

LOUDSPEAKERS—Marine Speaker Systems

- ⓂAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
ⓂAmerican Communications Corp., 306 Broadway, New York 7, N. Y.
ⓂAtlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
ⓂCinaudagraph Speakers, Inc., Division of Aireon Mfg. Corp., 1401 Fairfax Trafficway, Kansas City, Kansas.
DX Radio Products Co., Inc., 2304 Armitage Ave., Chicago 47, Ill.
ⓂDiiks Co., The, Seymour, Conn.
ⓂGalbraith & Son, Inc., C. C., 450-54 Avenue of the Americas, New York 11, N. Y.
Hose-McCann Telephone Co., Inc., 25th St. and 3rd Ave., Brooklyn 32, N. Y.
ⓂIntervox Corp., 2701 California Ave., Seattle 6, Wash.
ⓂJENSEN MFG. CO., 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91.
ⓂRacon Electric Co., 52 E. 19th St., New York 3, N. Y.
ⓂRadiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
ⓂRemler Co. Ltd., 2101 Bryant St., San Francisco 10, Calif.
ⓂSignet Development Co., 188 W. Randolph St., Chicago 1, Ill.
Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
Taybern Equipment Co., 120 Greenwich St., New York 6, N. Y.
ⓂUNIVERSITY LOUDSPEAKERS, INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.
Western Sound & Electric Labs., Inc., 805 S. Fifth St., Milwaukee 4, Wis.

LOUDSPEAKERS—Tweeters & Woofers

- ⓂAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
ⓂAtlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
ⓂBozak, R. T., 90 Montrose Ave., Buffalo 14, N. Y.
ⓂBritish Industries Corp., 164 Duane St., New York 13, N. Y.
ⓂCinaudagraph Speakers, Inc., Division of Aireon Mfg. Corp., 1401 Fairfax Trafficway, Kansas City, Kan.
ⓂCommercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
ⓂELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
ⓂHoll Audio Industries, Hollywood Station Box 1230, Hollywood 28, Calif.
ⓂJENSEN MFG. CO., 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91.
ⓂKlipsch & Associates, Hope, Ark.
ⓂLansing Sound, Inc., James B., 2439 Fletcher Drive, Los Angeles 26, Calif.
ⓂMagnavox Co., The, Components Div., Fort Wayne 4, Ind.
ⓂRacon Electric Co., 52 E. 19th St., New York 3, N. Y.
ⓂRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
ⓂSimpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
ⓂUNIVERSITY LOUDSPEAKERS, INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.
Utah, Inc., E. Franklin St., Huntington, Ind.

LUBRICANTS—Dry Film

- ⓂAcheson Colloids Corp., Port Huron, Mich.
ⓂGrafo Colloids Corp., Sharon, Pa.

LUGS AND TERMINALS

- ⓂAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
ⓂAircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
ⓂAmerican Electric Cable Co., 181 Appleton St., Holyoke, Mass.

- ⓂBead Chain Mfg. Co., 110 Mountain Grove St., Bridgeport 5, Conn.
ⓂBelden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Birnback Radio Co., Inc., 145 Hudson St., New York, N. Y.
ⓂBlaco Mfg. Co., 6541 Euclid Ave., Cleveland 3, Ohio.
ⓂBUCHANAN ELECTRICAL PRODUCTS CORP., 1290 Central Ave., Hillside, N. J. ADV. PG. 214.
ⓂBurndy Engineering Co., Inc., 107 Bruckner Blvd., New York 54, N. Y.
ⓂCAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
ⓂCINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
ⓂCitation Products Co., 233 E. 146th St., New York 51, N. Y.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
ⓂCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
ⓂDante Electric Mfg. Co., Bantam, Conn.
ⓂFEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
ⓂFrankel Connector Co., 177 Hudson St., New York, N. Y.
ⓂFranklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
ⓂGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
ⓂGENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
ⓂGrammes & Sons, L. F., 389 Union St., Allentown 2, Pa.
ⓂGreene Mfg. Corp., G. G., Warren, Pa.
ⓂGregory Mfg. Co., Inc., The, 67 Franklin St., New Haven 11, Conn.
ⓂHallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
ⓂHEYMAN MFG. CO., 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
ⓂIndustrial Precision Products Co., 315-325 N. Hoyne Ave., Chicago 12, Ill.
ⓂINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
ⓂJohnson Co., E. F., Waseca, Minn.
ⓂKeystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
ⓂKolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
ⓂKulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
LaMagna Mfg. Co., Inc., East Rutherford, N. J.
Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
ⓂMorse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
ⓂNational Screw & Mfg. Co., Cleveland 4, Ohio.
ⓂPenn-Union Electric Corp., 315 State Street, Erie, Pa.
ⓂSchott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
ⓂSherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
ⓂSmith, Inc., Herman H., 405-44th St., Brooklyn 20, N. Y.
Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S. Pasadena, Calif.
ⓂStandard Electric Time Co., 89 Logan St., Springfield, Mass.
ⓂStimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
ⓂThomas & Betts Co. Inc., 36 Butler St., Elizabeth 1, N. J.
ⓂUcinite Co., Div. of United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
ⓂUnited Carr Fastener Corp., Cambridge 42, Mass.
ⓂUnited Shoe Machinery Corp., 142 Federal St., Boston, Mass.
ⓂWade Electric Products Co., 211 Jacob St., Sturgis, Mich.
ⓂWaterbury Companies, Inc., Waterbury 90, Conn.
ⓂWheaton Co., T. C., Industrial Div., 220 G St., Millville, N. J.
ⓂWhitaker Cable Corp., Kansas City 16, Mo.
Zierick Mfg. Corp., Beechwood and Rockdale Aves., New Rochelle, N. Y.

MACHINES—Blueprint

- ⓂDietzgen Co., Eugene, 2425 Sheffield Ave., Chicago 14, Ill.
ⓂParagon-Revolute Corp., 71 South Ave., Rochester 4, N. Y.
ⓂPease Co., C. F., 2601 W. Irving Park Rd., Chicago, 45, Ill.
ⓂPeck & Harvey, 5736-38 N. Western Ave., Chicago 45, Ill.
ⓂPost Co., Frederick, 3650 N. Avondale Ave., P. O. Box 803, Chicago 90, Ill.

MACHINES—Coil Winding

- ⓂAssociated Production Co., 162 N. Clinton St., Chicago 6, Ill.
ⓂAutomatic Coil Winder & Electrical Equipment Co., Ltd., Winder House, Douglas St., London, S. W. 1, England.

- ⓂBoesch Mfg. Co., Danbury, Conn.
ⓂEisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
ⓂIdeal Industries, Inc., Park and Borden Aves., Sycamore, Ill.
ⓂKAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
ⓂMICO INSTRUMENT CO., 80 Trowbridge St., Cambridge 38, Mass. ADV. PG. 263.
ⓂPRODUCTION EQUIPMENT CO., Coil Winding Machine Div., 37 W. Main St., Oyster Bay, N. Y. ADV. PG. 254.
ⓂSTEVENS MFG. CO., INC., GEO., 6022 N. Rogers Ave., Pulaski and Peterson, Chicago 30, Ill. ADV. PG. 277.
ⓂStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.
ⓂUniversal Winding Co., 1655 Elmwood Ave., Cranston 3, R. I.
Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

MACHINES—Crystal Disc Lapping & Manufacturing

- ⓂCrane Packing Co., 1800 Cuyler Ave., Chicago 13 211.
ⓂPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
ⓂREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.

MACHINES—Crystal Manufacturing & Finishing

- ⓂPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
ⓂREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.

MACHINES—Electric Soldering

- ⓂCole Radio Works, 86 Westville Ave., Caldwell, N. J.
ⓂEisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
ⓂELECTRIC SOLDERING IRON CO., W. Elm St., Deep River, Conn. ADV. PG. 106.
ⓂElectronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
ⓂIdeal Industries, Inc., Park and Borden Aves., Sycamore, Ill.
ⓂKAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
ⓂLuma Electric Equipment Co., Box 132, Toledo 1, Ohio.
Multi-Products Tool Co., 123 Sussex Ave., Newark 4, N. J.
ⓂPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
ⓂStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
ⓂStolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif.

MACHINES—Electronic Balancing

- ⓂAnnis Co., R. B., 1101 N. Delaware St., Indianapolis, Ind.
Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
ⓂSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
ⓂWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

MACHINES—Electronic Beverage Inspector

- ⓂRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

MACHINES—Electronic Computing

- ⓂARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
ⓂCole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
ⓂConsolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.
Eckert-Mauchly Computer Corp., 3747 Ridge Ave., Philadelphia 32, Pa.
ⓂElectronic Associates, Inc., Long Branch, N. J.
ⓂEngineering Research Associates, Inc., 1902 W. Minnehaha Ave., St. Paul, Minn.
ⓂFORD INSTRUMENT CO., INC., 31-10 Thomson Ave., Long Island City, N. Y. ADV. PG. 278.
ⓂPhilbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
ⓂPhilco Corp., Tioga and C Sts., Philadelphia 34, Pa.

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Phillips Petroleum Co., Special Products Div., Bartlesville, Okla.

- Ⓜ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Reeves Instrument Corp., 215 E. 91st St. New York, N. Y.
- Ⓜ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

MACHINES—Electronic Dictation

- Ⓜ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓜ Dictaphone Corp., 420 Lexington Ave., New York 17, N. Y.
- Lexas Mfg. Co., Ann Arbor, Mich.
- Meloid Insulation Co., Aircraft Control Div. 335 E. Price St., Philadelphia, Pa.
- Ⓜ Proctor Soundex Corp., 133 N. 6th Ave., Mt. Vernon, N. Y.

MACHINES—Engraving and Profiling

- Auco Engraver Co., Inc., 1776 Broadway, New York, N. Y.
- Ⓜ GREEN INSTRUMENT CO., 385 Putnam Ave., Cambridge, Mass. ADV. PG. 116.
- Ⓜ MICO INSTRUMENT CO., 86 Trowbridge St., Cambridge 38, Mass. ADV. PG. 263.
- Ⓜ NEW HERMES, INC., 13-19 University Place, New York 3, N. Y. ADV. PG. 247.
- Ⓜ Ports Mfg. Co., 3265 E. Belmont Ave., Fresno 3, Calif.
- Ⓜ Preis Engraving Machine Co., H., 649 Highway No. 29, Hillside, N. J.

MACHINES—Flexible Shaft Equipment

- Ⓜ Dumore Co., The, 1300 Seventeenth St., Racine, Wis.
- Ⓜ Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
- Ⓜ Foredom Electric Co., 27 Park Place, New York 7, N. Y.
- L. & R. Mfg. Co., 577 Elm St., Arlington, N. J.
- Ⓜ Fratt & Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.
- Ⓜ Stow Mfg. Co., 445 State St., Binghamton, N. Y.
- Ⓜ Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
- Ⓜ White Dental Mfg. Co., S. S., Industrial Div., 10 E. 40th St., New York, N. Y.

MACHINES—Glass Blowing

- Ⓜ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓜ Haydu Brothers, Plainfield, N. J.
- Ⓜ KAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
- Ⓜ Litton Industries, San Carlos, Calif.

MACHINES—Glass Working

- Ⓜ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓜ Haydu Brothers, Plainfield, N. J.
- Ⓜ KAHLE ENGINEERING CO., 1307 7th St. North Bergen, N. J. ADV. PG. 180, 181.
- Ⓜ Litton Industries, San Carlos, Calif.
- Ⓜ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Ⓜ MICO INSTRUMENT CO., 80 Trowbridge St., Cambridge 38, Mass. ADV. PG. 263.

MACHINES—Impregnating

- Ⓜ Barrett Co., Leon J., P. O. Box 378, Worcester 1, Mass.
- Ⓜ Bawser, Inc., Refrigeration Div., Terryville, Conn.
- Ⓜ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- Ⓜ Stokes Machine Co., F. J., 5850 Tabor Rd., Olney P. O. Philadelphia 20, Pa.

MACHINES—Instrument Shock Testing

- Ⓜ Ferner Co., R. Y., 110 Pleasant St., Malden, Mass.
- Ⓜ Gadgets, Inc., 3269 N. Dixie Drive, Dayton 5, Ohio.
- Ⓜ INSTRUMENT DEVELOPMENT LABORATORIES, INC., Needham Heights, Mass. ADV. PG. 243.

MACHINES—Metal and Glass Marking

- Ⓜ Adromark Co., The, 422 Morrell St., Elizabeth 4, N. J.
- Auto Engraver Co., Inc., 1776 Broadway, New York, N. Y.
- Ⓜ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓜ Haydu Brothers, Plainfield, N. J.

Ⓜ Ideal Industries, Inc., Park & Borden Aves., Sycamore, Ill.

- Ⓜ KAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
- Ⓜ Luma Electric Equipment Co., Box 132, Toledo 1, Ohio.
- Ⓜ Markem Machine Co., Keene, N. H.

MACHINES—Photocopy

- Ⓜ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓜ Dietzgen Co., Eugene, 2425 Sheffield Ave., Chicago 14, Ill.
- General Photo Products Co., Inc., 15 Summit Ave., Chatham, N. J.
- Ⓜ Haloid Co., The, 6 Haloid St., Rochester, N. Y.
- Ⓜ Hunter Photo Copyist Co., 566 Spencer St., Syracuse, N. Y.
- Ⓜ Paragon-Revolute Corp., 71 South Ave., Rochester 4, N. Y.
- Ⓜ Pease Co., C. F., 2601 W. Irving Park Rd., Chicago, Ill.
- Ⓜ Peck & Harvey, 5736-38 N. Western Ave., Chicago 45, Ill.
- Ⓜ Peerless Photo Products, Shoreham, L. I., N. Y.

MACHINES—Record Manufacturing

- Ⓜ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Ⓜ Poinsettia Co., Inc., 95 Cedar Ave., Pitman, N. J.
- Ⓜ Stokes Machine Co., F. J., 5850 Tabor Rd., Olney P. O., Philadelphia 20, Pa.

MACHINES—Tube Manufacturing

- Ⓜ BUCK ENGINEERING CO., INC., 37-41 Marcy St., Freehold, N. J. ADV. PG. 194.
- Ⓜ Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd., W., Rochester 3, N. Y.
- Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓜ Haydu Brothers, Plainfield, N. J.
- Ⓜ International Machine Works, 6904 Madison St., Guttenberg, N. J.
- Ⓜ KAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
- Ⓜ Litton Industries, San Carlos, Calif.
- Ⓜ Optical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

MACHINES—Vibration Fatigue Testing

- Ⓜ All American Tool & Mfg. Co., 1014 W. Fullerton St., Chicago 14, Ill.
- Ⓜ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓜ Callidine Co., The, 751 Main St., Winchster, Mass.
- Ⓜ Ferner Co., R. Y., 110 Pleasant St., Malden, Mass.
- Ⓜ MB MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.
- Ⓜ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

MACHINES—Whiteprint

- Ⓜ Bruning Co., Inc., Charles, 4754 Montrose Ave., Chicago 41, Ill.
- Ⓜ Dietzgen Co., Eugene, 2425 Sheffield Ave., Chicago 14, Ill.
- Ⓜ Ozalid Div. of General Aniline & Film Corp., 770 Ansoco Rd., Johnson City, N. Y.
- Ⓜ Paragon-Revolute Corp., 71 South Ave., Rochester 4, N. Y.
- Ⓜ Pease Co., C. F., 2601 W. Irving Park Rd., Chicago, Ill.
- Ⓜ Post Co., Frederick, 3650 N. Avondale Ave., Chicago 90, Ill.

MACHINES—Wire Drawing

- Ⓜ Electric Auto-Lite Co., The, Toledo 1, Ohio.
- Ⓜ KAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.

MACHINES—Wire Stripping

- Ⓜ Ideal Industries, Inc., Park & Borden Avenues, Sycamore, Ill.

MAGNETIC ANALYSIS EQUIPMENT

- Ⓜ AIRCRAFT ELECTRONICS ASSOCIATES, INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- Ⓜ Fisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.

Magnetic Analysis Corp., 42-44 Twelfth St., Long Island City 1, N. Y.

- Ⓜ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.

MAGNETIZERS AND DEMAGNETIZERS

- Ⓜ Amplifier Corp. of America, 396 Broadway, New York 13, N. Y.
- Ⓜ Annis Co., R. B., 1101 N. Delaware St., Indianapolis, Ind.
- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Electric Heat Control Co., 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓜ Hercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
- Ⓜ Ideal Industries, Inc., Park & Borden Aves., Sycamore, Ill.
- Ⓜ Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.
- Ⓜ RADIO FREQUENCY LABS., INC., Boonton, 2, N. J. ADV. PG. 172.
- Ⓜ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Smith Mfg. Co., Nathan R., 105 Pasadena Ave., So. Pasadena, Calif.
- Sperman Metal Specialties, 27 Columbia Place, Brooklyn 2, N. Y.

MAGNETOMETERS

- Ⓜ Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
- Ⓜ HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
- Ⓜ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓜ Varian Associates, 99 Washington St., San Carlos, Calif.

MAGNETRON

See Tubes

MAGNETS—Permanent

- Ⓜ Arnold Engineering Co., 147 E. Ontario St., Chicago, Ill.
- Ⓜ Carboly Company Inc., 11139 E. Eight Mile Blvd., Detroit 32, Mich.
- Ⓜ Carron Mfg. Co., 215 S. Aberdeen St., Chicago, Ill.
- Ⓜ CRUCIBLE STEEL CO. OF AMERICA, 405 Lexington Ave., New York 17, N. Y. ADV. PG. 179.
- Ⓜ General Magnetic Corp., 1001 Erwin Ave., Detroit 5, Mich.
- Ⓜ INDIANA STEEL PRODUCTS COMPANY, THE, Valparaiso, Indiana. ADV. PG. 22.
- Ⓜ MAGNETIC CORE CORP., 142-144 S. Highland Ave., Ossining, N. Y. ADV. PG. 272.
- Ⓜ Magnetic Devices Corp., 103 S. Van Brunt Ave., Englewood, N. J.
- Ⓜ Murex, Ltd., Rainham, Essex, England.
- Simmonds Saw & Steel Co., Lockport, N. Y.
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓜ Thomas & Skinner Steel Products Co., 1122 E. 23rd St., Indianapolis, Ind.

MARKERS, WIRE

See Code and Tab Markers

MASKS—Television

- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Ⓜ Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- Ⓜ Deitz Miracle Lens Co., 141 President St., Passaic, N. J.
- Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
- Ⓜ Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- Ⓜ Haberland Mfg. Co., P. O. Box 476, Passaic, N. J.
- Ⓜ Parisian Novelty Co., 3510 So. Western Ave., Chicago 9, Ill.
- Ⓜ Plastimold Corp., Attleboro, Mass.
- Ⓜ Precision Plastic Products Inc., 628-30 W. Lake St., Chicago 6, Ill.
- Ⓜ Telectro Components, 141 Belleville Ave., Belleville, N. J.

MEGAPHONES—Electronic

- Ⓜ American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓜ Audio Equipment Co., 80-20 45th Ave., Elmhurst, N. Y.
- Ⓜ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Tayberm Equipment Co., Inc., 120 Greenwich St., New York 6, N. Y.
- Ⓜ UNIVERSITY LOUDSPEAKERS, INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

MEGOHMMETERS

- Associated Research Inc., 3758 W. Belmont, Chicago 18, Ill.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Communication Measurements Lab., 120 Greenwich St., New York, N. Y.
- Electronic Brazing Co., 140 Glenridge Ave., Montclair, N. J.
- FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
- MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Precision Apparatus Co., Inc., 24-34 Horace Harding Blvd., Elmhurst, N. Y.
- RADIO FREQUENCY LABS., INC., Boonton 2, N. J. ADV. PG. 172.
- RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Simpson Electric Co., Div. American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N. Y.
- Tech Laboratories, Inc., Bergen and Edsall Blvds., Palisades Park, N. J.

METAL CONES, TELEVISION

See Cones, Metal Television

METAL PARTS—Bushings

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
- Amplex Division, Chrysler Corp., Detroit 31, Mich.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Beach Precision Parts Co., Boonton, N. J.
- Bound Brook Oil-Less Bearing Co., Bound Brook, N. J.
- CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Haydu Brothers, Plainfield, N. J.
- Heli-Coil Corp., 47-23 35th St., Long Island City 1, N. Y.
- Industrial Precision Products Co., 315-325 N. Hoeye Ave., Chicago 12, Ill.
- KEYSTONE CARBON CO., INC., Saint Marys, Pa. ADV. PG. 42.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- NEWARK SPINNING & STAMPING CO., 471 Bloy St., Newark 5, N. J. ADV. PG. 269.
- Rattan Mfg. Co., The P. O. Box 1745, New Haven 7, Conn.
- St. Mary's Carbon Co., State Rd., St. Marys, Pa.
- Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
- U. S. Graphite Co., Saginaw, Mich.

METAL PARTS—Contacts

See Contacts, Electrical

METAL PARTS—Laminated

- Haydu Brothers, Plainfield, N. J.
- Industrial Precision Products Co., 315-325 N. Hoeye Ave., Chicago 12, Ill.
- MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.

METAL PARTS—Lead

- Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Haydu Brothers, Plainfield, N. J.
- National Lead Co., 111 Broadway, New York 6, N. Y.
- Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
- Vitamite Co., 227 W. 64th St., New York 23, N. Y.

METAL PARTS—Powdered

- Amplex Division, Chrysler Corp., Detroit 31, Mich.
- Bound Brook Oil-Less Bearing Co., Bound Brook, N. J.
- KEYSTONE CARBON CO., INC., St. Marys, Pa. ADV. PG. 42.
- North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- RADIO CORES, INC., 9540 Tully Ave., Oak Lawn, Ill. ADV. PG. 260.
- St. Mary's Carbon Co., State Rd., St. Marys, Pa.
- STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- U. S. Graphite Co., Saginaw, Mich.
- Waterbury Companies, Inc., Waterbury 90, Conn.

METAL PARTS—Screw Machine

- Adel Precision Products Corp., 10777 Vanowen St., Burbank, Calif.
- Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
- ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Automatic Metal Products Co., 315 Barry St., Brooklyn 1, N. Y.
- Autoscrew Co., 216-222 W. 18th St., New York, N. Y.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Beach Precision Parts Co., Boonton, N. J.
- BIRD CO., Richard H., 1 Spruce St., Waltham, Mass. ADV. PG. 214.
- BLAKE & JOHNSON CO., Waterville 48, Conn. ADV. PG. 223.
- Buchmann Spark-Wheel Corp., 4-20 47th Ave., Long Island City 1, N. Y.
- CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Corbin Screw Div., American Hardware Corp., High Myrtle & Grove Sts., New Britain, Conn.
- Diamond Mfg. Co., Wakefield, Mass.
- Eastern Specialty Co., Philadelphia 40, Pa.
- Engineering Co., 27 Wright St., Newark, 11, N. J.
- Ericsson Screw Machine Products Co., 25 Lafayette St., Brooklyn 1, N. Y.
- FEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Haydu Brothers, Plainfield, N. J.
- Halder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- Heli-Coil Corp., 47-23 35th St., Long Island City 1, N. Y.
- Industrial Precision Products Co., 315-325 N. Hoeye Ave., Chicago 12, Ill.
- Instrument Parts Corp., P. O. 150, Dsining, N. Y.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Johnson Co., E. F. Waseca, Minn.
- Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
- Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- Manufacturers Thread Grinding, Inc., P. O. Box 66, Eatontown, N. J.
- Milford Rivet & Machine Co., Milford, Conn.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- National Screw & Mfg. Co., Cleveland 4, Ohio.
- PRECISION METAL PRODUCTS CO. OF MALDEN, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- Progressive Welder Co., 3050 E. Outer Drive, Detroit, Mich.
- QUAKER CITY GEAR WORKS, 1908-32 N. Front St., Philadelphia 22, Pa. ADV. PG. 272.
- Reisner Mfg. Co., Hagerstown, Md.
- Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
- SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Titan Metal Mfg. Co., Bellefonte, Pa.
- U. S. Engineering Co., 521 Commercial St., Glendale 3, Calif.
- United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.
- Vallorbs Jewel Co., Lancaster, Pa.
- Waltham Screw Co., 77 Rumford Ave., Waltham, Mass.

METAL PARTS—Small Metal Stampings

- ABALON PRECISION MFG. CORP., 540 Casanova St., Bronx 59, N. Y. ADV. PG. 268.
- Aklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Air-King Products Co., Inc., 170 53rd St., Brooklyn, N. Y.
- ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- American Emblem Co., Inc., P. O. Box 116R, Utica, N. Y.
- American Nut & Bolt Fastener Co., 2045 Doerr St., Pittsburgh 12, Pa.
- ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- ART WIRE & STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
- Automatic Metal Products Co., 315 Barry St., Brooklyn 1, N. Y.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Barnes-Gibson-Raymond Div. of Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.
- Carby Mfg. Co., Inc., 62 Cottage Place, Waterbury 5, Conn.
- Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Craft Mfg. Co., 3949 W. Schubert St., Chicago, Ill.
- Cutler Metal Products Co., Camden, N. J.
- Cuyahoga Spring Co., 10272 Berea Rd., Cleveland, Ohio.
- Dante Electric Mfg. Co., Bantam, Conn.
- Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Eastern Specialty Co., Philadelphia 40, Pa.
- Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- Elco Mfg. Co. Div. of Electro-Connector Corp., 110 W. Oxford St., Philadelphia 22, Pa.
- Electronic Mfg. Co., 20 Orange St., Newark, N. J.
- Engineering Co., 27 Wright St., Newark, N. J.
- Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Fryling Mfg. Co., 639 W. 12th St., Erie, Pa.
- Garrett Co., Inc., George K., D and Tioga Sts., Philadelphia 34, Pa.
- Goat Co., Inc., Fred, 314 Dean St., Brooklyn, N. Y.
- Grammes & Sons, L. F., 389 Union St., Allentown 2, Pa.
- Greene Mfg. Corp., G. G., Warren, Pa.
- Gregory Mfg. Co., Inc., The, 67 Franklin St., New Haven 11, Conn.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Haydu Brothers, Plainfield, N. J.
- HEYMAN MFG. CO., 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
- Hubbard Spring Co., M. D., Central Ave., Pontiac, Mich.
- Hunter Spring Co., Lansdale, Pa.

METAL PARTS—Small Metal Stampings

- Industrial Precision Products Co., 315-325 N. Hoeye Ave., Chicago 12, Ill.
- INSTRUMENT SPECIALTIES CO., INC., 254 Bergen Blvd., Little Falls, N. J. ADV. PG. 202.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Johnson Co., E. F., Waseca, Minn.
- Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
- Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- King Laboratories, Inc., 127 Solar St., Syracuse 4, N. Y.
- Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Kling Metal Sprinning Co., 174 Centre St., New York 13, N. Y.
- Kulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
- La Magna Mfg. Co., Inc., East Rutherford, N. J.
- Lansing Stamping Co., 1159 S. Pennsylvania Ave., Lansing, Mich.
- Market Forge Co., Everett 49, Mass.
- Mineralac Electric Co., 25 N. Peoria St., Chicago, Ill.
- Minute Man Products, Inc., 309 E. 22nd St., New York 10, N. Y.

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- Ⓞ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓞ **MULTI METAL WIRE CLOTH CO., INC.**, 1350 Garrison St., New York 59, N. Y. ADV. PG. 66.
- Ⓞ **NATIONAL CO., INC.**, 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓞ National Gasket & Washer Mfg. Co., Inc., 124 E. 25th St., New York 10, N. Y.
- Ⓞ National Screw & Mfg. Co., Cleveland 4, Ohio.
- Ⓞ **OLYMPIC METAL PRODUCTS CO., INC.**, Phillipsburg, N. J. ADV. PG. 148.
- Ⓞ **RATTON MacGUYER CO.**, 17 Virginia Ave., Providence 5, R. I. ADV. PG. 138.
- Ⓞ **Raul & Beekman Inc.**, 1801 Cortland St., Philadelphia 40, Pa.
- Ⓞ **Quadriga Mfg. Co.**, 213 W. Grand Ave., Chicago 11, Ill.
- Ⓞ **Raymond Mfg. Co.**, Div. of Associated Spring Corp., 126 S. Center St., Corry, Pa.
- Ⓞ **REF Mfg. Corp.**, Jericho Turnpike, Mineola, N. Y.
- Ⓞ **Repath Co.**, Paul R., 641 E. 61st St., Los Angeles 1, Calif.
- Ⓞ **Republic Steel Corp.**, Republic Bldg., Cleveland 1, Ohio.
- Ⓞ **Reisner Mfg. Co.**, Hagerstown, Md.
- Ⓞ **Scovill Mfg. Co.**, Industrial Fastener Div., Waterbury, Conn.
- Ⓞ **Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓞ **Stanley Works**, The, New Britain, Conn.
- Ⓞ **Star Expansion Products Co.**, 147-149 Cedar St., New York 6, N. Y.
- Ⓞ **STAVER CO., INC.**, 91 Pearl St., Brooklyn 1, N. Y. ADV. PG. 180.
- Ⓞ **Stimson Co., Inc.**, Edwin, 74 Franklin Ave., Brooklyn 5, N. Y.
- Ⓞ **PENNSYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ **Tener Engineering Corp.**, 115 Madison St., Malden 48, Mass.
- Ⓞ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓞ **Tinnerman Products Inc.**, 2038 Fulton Rd., Cleveland 13, Ohio.
- Ⓞ **Ucinite Co.**, The, Div. of United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
- Ⓞ **United Carr Fastener Corp.**, Cambridge 42, Mass.
- Ⓞ **United Screw & Bolt Corp.**, 2513 W. Cullerton St., Chicago 8, Ill.
- Ⓞ **United Shoe Machinery Corp.**, 142 Federal St., Boston, Mass.
- Ⓞ **Vallorbs Jewel Co.**, Lancaster, Pa.
- Ⓞ **VOLKERT METAL STAMPINGS INC.**, JOHN, 222-34 66th Ave., Queens Village, N. Y. ADV. PG. 63.
- Ⓞ **Walter Co., Inc.**, S., 1400 Atlantic Ave., Brooklyn 16, N. Y.
- Ⓞ **Waterbury Companies, Inc.**, Waterbury 90, Conn.
- Ⓞ **Whitehead Stamping Co.**, 1691 W. Lafayette Blvd., Detroit 16, Mich.
- Ⓞ **Wilson Co.**, The H. A., 105 Chestnut St., Newark 5, N. J.
- Ⓞ **Worcester Pressed Aluminum Corp.**, 13-15 Hope Ave., Worcester 3, Mass.
- Ⓞ **Wrought Washer Mfg. Co.**, 2264 S. Bay St., Milwaukee 7, Wis.
- Ⓞ **Zierick Mfg. Corp.**, Beechwood and Rockdale Aves., New Rochelle, N. Y.

METAL PARTS—Spinnings

- Ⓞ **Allmetal Spinning & Stamping Co.**, 1020 Willoughby Ave., Brooklyn, N. Y.
- Ⓞ **Electronic Mfg. Co.**, 20 Orange St., Newark, N. J.
- Ⓞ **Hillside Spinning & Stamping Co., Inc.**, 1429 Chestnut Ave., Hillside, N. J.
- Ⓞ **NEWARK SPINNING & STAMPING CO.**, 471 Bloy St., Hillside 5, N. J. ADV. PG. 269.
- Ⓞ **Schrader Co., J.**, 4603 Fenwick Ave., Cleveland, Ohio.

METAL PARTS—Trimings

- Ⓞ **Jacklin Stamping Co.**, 1923 Nebraska Ave., Toledo 7, Ohio.
- Ⓞ **Etched Products Corp.**, 39-01 Queens Blvd., Long Island City, N. Y.
- Ⓞ **Eastern Metals Industries**, 250 W. 54th St., New York 19, N. Y.
- Ⓞ **Krammes & Sons**, L. F., 389 Union St., Allentown 2, Pa.
- Ⓞ **Industrial Precision Products Co.**, 315-325 N. Hoyne Ave., Chicago 12, Ill.
- Ⓞ **Eirk & Blum Mfg. Co.**, 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Ⓞ **REF Mfg. Corp.**, Jericho Turnpike, Mineola, N. Y.
- Ⓞ **PENNSYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ **United Carr Fastener Corp.**, Cambridge 42, Mass.
- Ⓞ **Waterbury Companies, Inc.**, Waterbury 90, Conn.

METALLIC PAINTS

See Paints

METALS

Aluminum

- Ⓞ **Aluminum Co. of America**, Gulf Bldg., Pittsburgh, Pa.
- Ⓞ **Federated Metals Div.**, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

- Ⓞ **Kaiser Aluminum & Chemical Sales, Inc.**, 1924 Broadway, Oakland 12, Calif.
- Ⓞ **North American Philips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- Ⓞ **Revere Copper & Brass, Inc.**, 230 Park Ave., New York 17, N. Y.
- Ⓞ **Reynolds Metals Co.**, Market Research Dept., 19 E. 47th St., New York 17, N. Y.

Alnico

- Ⓞ **Arnold Engineering Co.**, 147 E. Ontario St., Chicago, Ill.
- Ⓞ **Carboloy Company, Inc.**, 11139 E. Eight Mile Blvd., Detroit 32, Mich.
- Ⓞ **Carron Mfg. Co.**, 215 S. Aberdeen St., Chicago, Ill.
- Ⓞ **INDIANA STEEL PRODUCTS COMPANY, THE**, Valparaiso, Indiana. ADV. PG. 22.

Antimony

- Ⓞ **Division Lead Co.**, 836 W. Kinzie St., Chicago 22, Ill.
- Ⓞ **Federated Metals Div.**, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓞ **National Lead Co.**, 111 Broadway, New York 6, N. Y.

Arsenic

- Ⓞ **Federated Metals Div.**, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

Barium

- Ⓞ **King Laboratories, Inc.**, 127 Solar St., Syracuse 4, N. Y.

Beryllium and Beryllium Alloys

- Ⓞ **Beryllium Corp.**, The, Reading, Pa.
- Ⓞ **Brush Beryllium Co.**, The, 4301 Perkins Ave., Cleveland 3, Ohio.
- Ⓞ **DRIVER CO., WILBUR B.**, 150 Riverside Ave., Newark 4, N. J. ADV. PG. 123.
- Ⓞ **GENERAL PLATE DIVISION, Metals & Controls Corp.**, Attleboro, Mass. ADV. PG. 245.
- Ⓞ **Mallory & Co., Inc.**, P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓞ **Wilson Co., H. A.**, The, 105 Chestnut St., Newark 5, N. J.

Brass and Bronze

- Ⓞ **Bridgeport Brass Co.**, 30 Grand St., Bridgeport, Conn.
- Ⓞ **Chase Brass & Copper Co., Inc.**, Waterbury 91, Conn.
- Ⓞ **Federated Metals Div.**, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓞ **Mallory & Co., Inc.**, P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓞ **Phosphor Bronze Corp.**, 20 Franklin St., Seymour, Conn.
- Ⓞ **Revere Copper & Brass, Inc.**, 230 Park Ave., New York 17, N. Y.
- Ⓞ **Titan Metal Mfg. Co.**, Bellefonte, Pa.

Cadmium

- Ⓞ **Division Lead Co.**, 836 W. Kinzie St., Chicago 22, Ill.
- Ⓞ **Federated Metals Div.**, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓞ **Mallory & Co., Inc.**, P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓞ **Merck & Co., Inc.**, Rahway, N. J.

Cesium Compounds

(For Photo-tubes)

- Ⓞ **Dow Chemical Co.**, Midland, Mich.
- Ⓞ **King Laboratories, Inc.**, 127 Solar St., Syracuse 4, N. Y.

Chromium

- Ⓞ **Division Lead Co.**, 836 W. Kinzie St., Chicago 22, Ill.
- Ⓞ **Electro Metallurgical Division**, Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.

Coefficient Metals

- Ⓞ **Carpenter Steel Co.**, The, 142 W. Bern St., Reading, Pa.
- Ⓞ **COHN CORP.**, Sigmund, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓞ **DRIVER-HARRIS CO.**, 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓞ **GENERAL PLATE DIVISION, Metals & Controls Corp.**, Attleboro, Mass. ADV. PG. 245.
- Ⓞ **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, Pa. ADV. PG. 147.
- Ⓞ **Wilson Co., H. A.**, The, 105 Chestnut St., Newark 5, N. J.

Columbium

- Ⓞ **Electro Metallurgical Division**, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓞ **Fansteel Metallurgical Corp.**, 2200 Sheridan Rd., North Chicago, Ill.
- Ⓞ **Metal Hydrides, Inc.**, Beverly, Mass.

Copper

- Ⓞ **Bridgeport Brass Co.**, 30 Grand St., Bridgeport, Conn.
- Ⓞ **Chase Brass & Copper Co., Inc.**, Waterbury 91, Conn.
- Ⓞ **Division Lead Co.**, 836 W. Kinzie St., Chicago 22, Ill.
- Ⓞ **Federated Metals Div.**, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓞ **Mallory & Co., Inc.**, P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓞ **Revere Copper & Brass, Inc.**, 230 Park Ave., New York 17, N. Y.

Electric Sheets

- Ⓞ **Allegheny Ludlum Steel Corp.**, H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓞ **Armco Steel Corp.**, 703 Curtis St., Middletown, Ohio.
- Ⓞ **Follansbee Steel Co.**, 3rd and Liberty Sts., Pittsburgh 30, Pa.
- Ⓞ **Mallory & Co., Inc.**, P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓞ **Republic Steel Corp.**, Republic Bldg., Cleveland 1, Ohio.

Foil-Aluminum, Tin & Lead

- Ⓞ **Aluminum Co. of America**, Gulf Bldg., Pittsburgh, Pa.
- Ⓞ **Bar-Ray Products, Inc.**, 209 25th St., Brooklyn 32, N. Y.
- Ⓞ **Federated Metals Div.**, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓞ **Johnston Foil Mfg. Co.**, 6100 S. Broadway, St. Louis 11, Mo.
- Ⓞ **Kaiser Aluminum & Chemical Sales, Inc.**, 1924 Broadway, Oakland 12, Calif.
- Ⓞ **National Lead Co.**, 111 Broadway, New York 6, N. Y.
- Ⓞ **Reynolds Metals Co.**, Market Research Dept., 19 E. 47th St., New York 17, N. Y.

Gold and Gold Alloys

- Ⓞ **AMERICAN PLATINUM WORKS**, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- Ⓞ **Baker & Co., Inc.**, 113 Astor St., Newark 5, N. J.
- Ⓞ **BRAININ CO., C. S.**, 220 Washington St., Mt. Vernon, N. Y. ADV. PG. 246.
- Ⓞ **COHN CORP., SIGMUND**, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓞ **Eastern Smelting & Refining Corp.**, 107-109 W. Brookline St., Boston 18, Mass.
- Ⓞ **GENERAL PLATE DIVISION, METALS & CONTROLS CORP.**, Attleboro, Mass. ADV. PG. 245.
- Ⓞ **Handy & Harman**, 82 Fulton St., New York 7, N. Y.
- Ⓞ **Linick Chemical Co.**, 29 E. Madison St., Chicago 2, Ill.
- Ⓞ **MAKEPEACE CO.**, D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓞ **Mallory & Co., Inc.**, P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓞ **NEY CO., J. M.**, 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓞ **Wildberg Bros. Smelting & Refining Co.**, 742 Market St., San Francisco 2, Calif.
- Ⓞ **Wilson Co., H. A.**, The, 105 Chestnut St., Newark 5, N. J.

High Permeability Alloys

- Ⓞ **Allegheny Ludlum Steel Corp.**, H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓞ **Alloy Metal Wire Co.**, 13th and Penna Ave., Prospect Park, Pa.
- Ⓞ **Arnold Engineering Co.**, 147 E. Ontario St., Chicago 11, Ill.
- Ⓞ **Carpenter Steel Co.**, The, 142 W. Bern St., Reading, Pa.
- Ⓞ **DRIVER-HARRIS CO.**, 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓞ **Magnetic Metals Co.**, Hayes Ave. at 21st St., Camden, N. J.
- Ⓞ **Mallory & Co., Inc.**, P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓞ **WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Laminated Metal Parts

- Ⓞ **GART-LLOYD METAL PRODUCTS CORP.**, 2973 Cropsey Ave., Brooklyn, N. Y. ADV. PG. 272.
- Ⓞ **Eastern Smelting & Refining Corp.**, 107-109 W. Brookline St., Boston 18, Mass.
- Ⓞ **GENERAL PLATE DIVISION, Metals & Controls Corp.**, Attleboro, Mass. ADV. PG. 245.
- Ⓞ **MAKEPEACE CO.**, D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓞ **Wilson Co., H. A.**, The, 105 Chestnut St., Newark 5, N. J.

(V) indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Lead

- Ⓢ Bar-Ray Products, Inc., 209 25th St., Brooklyn 32, N. Y.
- Ⓢ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓢ Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓢ National Lead Co., 111 Broadway, New York 6, N. Y.
- Ⓢ Soldering Specialties Co., Summit, N. J.

Lithium Compounds (for cathode tube screen settling)

- Ⓢ Merck & Co., Inc., Rahway, N. J.

Magnesium

- Ⓢ BURGESS BATTERY CO., Battery Div., Freeport, Ill. ADV. PG. 26.
- Ⓢ Dow Chemical Co., Midland, Mich.
- Ⓢ Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

Magnetic Iron Oxide (for cores)

- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ Standard Telephones & Cables Lt., Connaught House, Aldwych, London, W. C. 2, England.

METALS, MAGNETOSTRICTION

See **NICKELS** and **NICKEL** Alloys

Manganese

- Ⓢ Electro Metallurgical Division, Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓢ Plastic Metals Division, The National Radiator Co., 169 Bridge Street, Johnstown, Pa.

Mercury

- Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Ⓢ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓢ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓢ Merck & Co., Inc., Rahway, N. J.
- Ⓢ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

Molybdenum

- Ⓢ Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.
- Ⓢ CROSS CO., H., 15 Beekman St., New York, N. Y. ADV. PG. 208.
- Ⓢ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓢ Electro Metallurgical Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓢ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ Murex Ltd., Rainham-Essex-England.
- Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Monel

- Ⓢ Alloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
- Ⓢ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark N. J. ADV. PG. 123.
- Ⓢ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓢ International Nickel Co., Inc., The, 67 Wall St., New York 5, N. Y.
- Ⓢ JELLIFF MFG. CORP., C. O., 200 Pequot Ave., Southport, Conn. ADV. PG. 46.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.

Nickel and Nickel Alloys

- Ⓢ Allegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓢ Alloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
- Ⓢ Carpenter Steel Co., The, 142 W. Bern St., Reading, Pa.
- Ⓢ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓢ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark 4, N. J. ADV. PG. 123.
- Ⓢ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓢ Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

- Ⓢ Haynes Stellite Division, Union Carbide and Carbon Corp., Kokomo, Indiana.
- Ⓢ International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
- Ⓢ JELLIFF MFG. CORP., C. O., 200 Pequot Ave., Southport, Conn. ADV. PG. 46.
- Ⓢ Magnetic Metals Co., Hayes Ave. at 21st St., Camden, N. J.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ Phosphor Bronze Corp., 20 Franklin St., Seymour, Conn.
- Ⓢ Plastic Metals Division, The National Radiator Co., 169 Bridge Street, Johnstown, Pa.
- Ⓢ Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.
- Ⓢ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

Nickel Ribbon

- Ⓢ Alloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
- Ⓢ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓢ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark N. J. ADV. PG. 123.
- Ⓢ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Palladium

- Ⓢ AMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- Ⓢ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓢ BRAININ CO., C. S., 320 Washington St., Mt. Vernon, N. Y. ADV. PG. 246.
- Ⓢ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓢ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓢ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓢ Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- Ⓢ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓢ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

Phosphor Bronze

- Ⓢ Bridgeport Brass Co., 30 Grand St., Bridgeport, Conn.
- Ⓢ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓢ Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓢ KEYSTONE CARBON CO., INC., St. Marys, Pa. ADV. PG. 42.
- Ⓢ Phosphor Bronze Corp., 20 Franklin St., Seymour, Conn.
- Ⓢ Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.
- Ⓢ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

Platinum

- Ⓢ AMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- Ⓢ Baker Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓢ BRAININ CO., C. S., 320 Washington St., Mt. Vernon, N. Y. ADV. PG. 246.
- Ⓢ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓢ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓢ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓢ Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓢ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

Powdered Metals

- Ⓢ Allegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓢ ANTARA PRODUCTS, General Aniline & Film Coro., 444 Madison Ave., New York 17, N. Y. ADV. PG. 137.
- Ⓢ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓢ Fansteel Metallurgical Corp., 2200 Sheridan Pd., North Chicago, Ill.
- Ⓢ Handy & Harman, 82 Fulton St., New York 7, N. Y.
- Ⓢ INDIANA STEEL PRODUCTS COMPANY, THE, Valparaiso, Indiana. ADV. PG. 22.
- Ⓢ Metal Hydrides, Inc., Beverly, Mass.
- Ⓢ National Lead Co., 111 Broadway, New York 6, N. Y.

- Ⓢ Plastic Metals Division, The National Radiator Co., 169 Bridge St., Johnstown, Pa.
- Ⓢ Standard Telephones & Cables, Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

Silicon

- Ⓢ Allegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓢ Electro Metallurgical Division, Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ Plastic Metals Division, The National Radiator Co., 169 Bridge St., Johnstown, Pa.

Silver

- Ⓢ AMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- Ⓢ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓢ BRAININ CO., C. S., 320 Washington St., Mt. Vernon, N. Y. ADV. PG. 246.
- Ⓢ Eastern Smelting & Refining Corp., 107-109 Brookline St., Boston 18, Mass.
- Ⓢ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓢ Handy & Harman, 82 Fulton St., New York 7, N. Y.
- Ⓢ Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- Ⓢ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ Merck & Co., Inc., Rahway, N. J.
- Ⓢ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓢ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.
- Ⓢ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

Silver Alloys and Compounds

- Ⓢ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓢ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓢ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓢ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓢ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓢ Handy & Harman, 82 Fulton St., New York 7, N. Y.
- Ⓢ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓢ Mallinckrodt Chemical Works, Second and Mallinckrodt Sts., St. Louis 7, Mo.
- Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓢ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓢ Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.
- Ⓢ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.
- Ⓢ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

Steel

- Ⓢ Allegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓢ American Steel & Wire Co., U. S. Steel Corp. Sub., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓢ Armco Steel Corp., 703 Curtis St., Middletown, Ohio.
- Ⓢ Carnegie Illinois Steel Corp., U. S. Steel Corp., Sub., Carnegie Bldg., Pittsburgh, Pa.
- Ⓢ CRUCIBLE STEEL CO. OF AMERICA, 405 Lexington Ave., New York 17, N. Y. ADV. PG. 179.
- Ⓢ Lukens Steel Co. and Divisions, By-Products Steel Co. & Lukeneweld, 447 Lukens Bldg., Coatesville, Pa.
- Ⓢ Plastic Metals Division, The National Radiator Co., 169 Bridge St., Johnstown, Pa.
- Ⓢ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓢ Ryerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.
- Ⓢ Summerill Tubing Co., Div., Columbia Steel & Shafting Co., P. O. Box 1557, Pittsburgh 30, Pa.
- Ⓢ Timken Roller Bearing Co., Canton 6, Ohio.
- Ⓢ Wickwire Spencer Steel Div., The Colorado Fuel and Iron Corp., 500 Fifth Ave., New York 18, N. Y.

Steel, Electrical

- Ⓢ Allegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓢ Armco Steel Corp., 703 Curtis St., Middletown, Ohio.
- Ⓢ Carnegie-Illinois Steel Corp., U. S. Steel Corp., Sub., Carnegie Bldg., Pittsburgh, Pa.
- Ⓢ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark 4, N. J. ADV. PG. 123.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Follansbee Steel Co., Pittsburgh 30, Pa.
- Ⓜ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.

Steel, Stainless

- Ⓜ Allegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
- Ⓜ Alloy Metal Wire Co., 13th and Pennsylvania Ave., Prospect Park, Pa.
- Ⓜ Armo Steel Corp., 703 Curtis St., Middletown, Ohio.
- Ⓜ Carnegie Illinois Steel Corp., U. S. Steel Corp., Sub., Carnegie Building, Pittsburgh, Pa.
- Ⓜ Carpenter Steel Co., The, 142 W. Bern St., Reading, Pa.
- Ⓜ CRUCIBLE STEEL CO. OF AMERICA, 405 Lexington Ave., New York 17, N. Y. ADV. PG. 179.
- Ⓜ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark 4, N. J. ADV. PG. 123.
- Ⓜ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓜ KEYSTONE CARBON CO., INC., St. Marys, Pa. ADV. PG. 42.
- Ⓜ Lukens Steel Co. & Divisions, By-Products Steel Co. & Lukenweld, 447 Lukens Bldg., Coatesville, Pa.
- Ⓜ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓜ Pyerson & Son Inc., J. T., Box 8000-A, Chicago, Ill.
- Ⓜ Summerill Tubing Co., Div., Columbia Steel & Shafting Co., P. O. Box 1557, Pittsburgh 30, Pa.

Strontium

- Ⓜ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓜ King Laboratories Inc., 127 Solar St., Syracuse 4, N. Y.

Tantalum

- Ⓜ CROSS CO., H., 15 Beekman St., New York, N. Y. ADV. PG. 208.
- Ⓜ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓜ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓜ Metal Hydrides, Inc., Beverly, Mass.

Thermostatic Bi-Metals

- Ⓜ Hance Co., W. M., 1600 Beard Ave., Detroit, Mich.
- Ⓜ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓜ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

Tin

- Ⓜ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓜ Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Ⓜ GLASER LEAD CO., INC., 31 Wyckoff Ave., Brooklyn, N. Y. ADV. PG. 251.
- Ⓜ Merck & Co., Inc., Rahway, N. J.
- Ⓜ National Lead Co., 111 Broadway, New York 6, N. Y.

Tungsten

- Ⓜ Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.
- Ⓜ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓜ Electro Metallurgical Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓜ Fansiel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Mulex Ltd., Rainham-Essex-England.
- Ⓜ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓜ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

Tungsten Ribbon

- Ⓜ CROSS CO., H., 15 Beekman St., New York, N. Y. ADV. PG. 208.
- Ⓜ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓜ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Zinc

- Ⓜ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓜ Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

- Ⓜ GLASER LEAD CO., INC., 31 Wyckoff Ave., Brooklyn, N. Y. ADV. PG. 251.
- Ⓜ Merck & Co., Inc., Rahway, N. J.
- Ⓜ National Lead Co., 11 Broadway, New York 6, N. Y.
- Ⓜ New Jersey Zinc Co., 160 Front St., New York 7, N. Y.

Zirconium

- Ⓜ Electro Metallurgical Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Ⓜ Foote Mineral Co., 18 W. Chelton Ave., Philadelphia 44, Pa.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Metal Hydrides, Inc., Beverly, Mass.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

METEOROLOGICAL EQUIPMENT—Electronic

- Ⓜ Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- Ⓜ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.
- Ⓜ Hastings Instrument Co., Box 1275, Hampton, Va.
- Ⓜ McElroy Mfg. Corp., Littleton, Mass.
- Ⓜ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓜ Serdex, Inc., 91 Cambridge St., Boston, Mass.

METERS, Acceleration

See Accelerometers

METERS—Attenuation

- Ⓜ American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Cole Instrument Co., 1320 Grand Ave., Los Angeles 15, Calif.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Ⓜ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓜ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓜ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

METERS—Cable Testing

- Ⓜ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
- Ⓜ Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.
- Ⓜ Electronic Brazing Co., 140 Glenridge Ave., Montclair, N. J.
- Ⓜ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓜ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.

METERS—Counting Rate

- Ⓜ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Berkeley Scientific Co., Richmond, Calif.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
- Ⓜ Gorrell & Gorrell, Haworth, N. J.
- Ⓜ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Ⓜ Nuclear Instrument & Chemical Co., 223 W. Erie St., Chicago 10, Ill.
- Ⓜ Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓜ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
- Ⓜ Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- Ⓜ Tracerlab Inc., 130 High St., Boston 10, Mass.

METERS—d'Arsonval

See Also Galvanometers

- Ⓜ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- Ⓜ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓜ Beede Electrical Instrument Co., Inc., Penacook, N. H.
- Ⓜ Burlington Instrument Co., Burlington, Iowa.
- Ⓜ Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Electric Design & Mfg. Corp., Burlington, Iowa.
- Ⓜ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- Ⓜ International Instruments, Inc., 331 East St., New Haven 11, Conn.
- Ⓜ MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Ⓜ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Ⓜ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓜ Reliance Electric Instrument Co., 3027 Van Buren St., Chicago 12, Ill.
- Ⓜ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓜ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓜ Supreme, Inc., Greenwood, Miss.
- Ⓜ Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

METERS—Decibel

- Ⓜ Burlington Instrument Co., Burlington, Iowa.
- Ⓜ Clough Bregle Co., 6014 N. Broadway, Chicago, Ill.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ Electric Design & Mfg. Corp., Burlington, Iowa.
- Ⓜ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Ⓜ Fairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓜ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- Ⓜ International Instruments, Inc., 331 East St., New Haven 11, Conn.
- Ⓜ McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓜ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓜ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Ⓜ Scott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓜ Sierra Electronic Corp., San Carlos, Calif.
- Ⓜ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓜ Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

METERS—Distortion and Noise

- Ⓜ Audio Instrument Co., 1947 Broadway, New York 23, N. Y.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓜ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓜ OKAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓜ Marconi Instruments Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓜ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.

METERS—Elapsed Time

- Ⓜ AMERICAN CHRONOSCOPE CORP., 316 W. First St., Mt. Vernon, N. Y. ADV. PG. 84.
- Ⓜ Berkeley Scientific Co., Richmond, Calif.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ✓Burlington Instrument Co., Burlington, Iowa.
- ✓Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ✓CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- ✓GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓Gorrell & Gorrell, Haworth, N. J. Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- ✓HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- ✓Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- ✓J B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ✓Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ✓Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ✓MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ✓RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- ✓Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- ✓Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ✓Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- ✓WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

METERS—Electronic Capacitance

- ✓Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ✓GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ✓Kalbfell Labs, Inc., 1076 Morena Blvd., San Diego 10, Calif.
- MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
- McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- ✓Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.

METERS—Field Intensity

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ✓Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- ✓ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ✓FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ✓GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ✓RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ✓SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ✓STODDARD AIRCRAFT RADIO CO., 6644 Santa Monica Blvd., Hollywood 38, Calif. ADV. PG. 158.

METERS—Field Strength

- American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- Approved Electronic Instrument Corp., 142 Liberty St., New York 6, N. Y.
- ✓Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- ✓ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ✓FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ✓FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ✓GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓Lynmar Engineers Inc., 1721 Delancey St., Philadelphia 3, Pa.
- ✓Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ✓MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- ✓RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ✓Radio Transceiver Labs., 116-23 Jamaica Ave., Richmond Hill 18, N. Y.
- ✓Transvision, Inc., 460 North Ave., New Rochelle, N. Y.

METERS—f-m Deviation

- See Also Monitors.
- ✓BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
- ✓Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- ✓GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Monitor Products Co., 915 Fremont Ave., So. Pasadena, Calif.
- ✓REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.

METERS—Flow

- ✓Automatic Temperature Control Co., Inc., 5212 Putaski Ave., Philadelphia 44, Pa.
- ✓Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ✓ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- ✓Fischer & Porter Co., Hatboro, Pa.
- ✓Hastings Instrument Co., Box 1275, Hampton, Va.
- ✓Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ✓U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.

METERS—Flutter

See Meters, Wow and Flutter

METERS—Footcandle

- ✓GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Photovolt Corp., 95 Madison Ave., New York 16, N. Y.

METERS—Frequency

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- ✓BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ✓Berkeley Scientific Co., Richmond, Calif.
- ✓Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
- ✓BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
- Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- ✓CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ✓Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ✓Daven Co., 191 Central Ave., Newark 4, N. J.
- ✓Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- ✓Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ✓FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ✓Furst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
- ✓Gates Radio Co., Quincy, Ill.
- ✓GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 35, Mass. ADV. PG. 48, 49.
- ✓Gertsch Products, Inc., 11846 Mississippi Ave., Los Angeles 25, Calif.
- ✓HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ✓HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ✓J B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ✓KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓Kelloff Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- ✓LAMPKIN LABORATORIES, INC., Bradenton, Fla. ADV. PG. 278.
- ✓LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- ✓Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- ✓Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ✓Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Monitor Products Co., 915 Fremont Ave., So. Pasadena, Calif.
- ✓POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.

- ✓REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ✓Roller-Smith, Bethlehem, Pa.
- ✓Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- Sierra Electronic Corp., San Carlos, Calif.
- ✓Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ✓SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ✓Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- ✓Varian Associates, 99 Washington St., San Carlos, Calif.
- ✓Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- ✓WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

METERS—Hearing Aid

- ✓DEJUR-AMSCO CORP., Northern Blvd., at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.
- ✓International Instruments, Inc., 331 East St., New Haven 11, Conn.
- ✓J B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ✓SHURITE METERS, 61 Hamilton St., New Haven 8, Conn. ADV. PG. 216.
- ✓Sterling Mfg. Co., 9205 Detroit Ave., Cleveland 2, Ohio.
- ✓Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

METERS—Impedance

- ✓Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ✓Electrodyne Company, 32 Oliver St., Boston, Mass.
- ✓FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ✓GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓JONES ELECTRONICS CO., N. C., Bristol, Conn. ADV. PG. 138.
- ✓Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ✓POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ✓Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.
- Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
- ✓SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ✓Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ✓Varian Associates, 99 Washington St., San Carlos, Calif.
- ✓WESTON ELECTRICAL INSTRUMENT CORP., 614 Freylinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Impedance & Phase Angle Audio

- ✓Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

METERS—Light

- ✓Adair & Rhamstine, 314 Beaubien St., Detroit 26, Mich.
- Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.
- ✓DEJUR-AMSCO CORP., Northern Blvd., at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- ✓GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ✓Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ✓MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ✓Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- ✓WESTON ELECTRICAL INSTRUMENT CORP., 614 Freylinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Medical

- ✓Beede Electrical Instrument Co., Inc., Penacook, N. H. Electric Design & Mfg. Corp., Burlington, Iowa.
- ✓EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ✓Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- ✓Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

METERS—Microwave

- ① Frequency Standards Corp., Box 66, Eatontown, N. J.
- ① POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ① Varian Associates, 99 Washington St., San Carlos, Calif.
- ① Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

METERS—Modulation

See Also Monitors, Modulation.

- ① BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
- ① Burlington Instrument Co., Burlington, Iowa.
- ① Coolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 86, Ill.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① Monitor Products Co., 915 Fremont Ave., So Pasadena, Calif.
- ① PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- ① REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

METERS—Moisture

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- ① Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- ① Berkeley Scientific Co., Richmond, Calif.
- ① Delmhorst Instrument Co., 115 Cornelia St., Boonton, N. J.
- ① Fielden Electronics, Inc., 1171 New York Ave., Huntington Station, N. Y.
- ① Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ① MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- ① Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Serdex, Inc., 91 Cambridge St., Boston, Mass.
- ① Tech Laboratories, Inc., Bergen & Edsall Blvd., Palisades Park, N. J.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Null

- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ① BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Larchy, Pa. ADV. PG. 169.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ① Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

METERS—Output

- ① Assembly Products Inc., Chagrin Falls 6, Ohio.
- ① BIRD ELECTRONIC CORP., 1800 E. 38th St., Cleveland 14, Ohio. ADV. PG. 184, 185.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① Daven Co., 191 Central Ave., Newark 4, N. J.
- ① ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ① Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① International Instruments, Inc., 331 East St., New Haven 11, Conn.
- ① JONES ELECTRONICS CO., M. C., Bristol, Conn. ADV. PG. 138.
- McMirndo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- ① Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ① MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.

- Radio Design Co., 1353 Sterling Place, Brooklyn, N. Y.
- ① SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Panel

- ① ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsy Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- ① Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ① Beede Electrical Instrument Co., Inc., Penacook, N. H.
- ① Burlington Instrument Co., Burlington, Iowa.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① DEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- ① Electric Design & Mfg. Corp., Burlington, Iowa.
- ① Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- ① FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ① International Instruments, Inc., 331 East St., New Haven 11, Conn.
- ① J B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ① MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- ① Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ① Roller-Smith, Bethlehem, Pa.
- ① Sensitive Research Instrument Corp., 9 Elm St., Mt. Vernon, N. Y.
- ① Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- ① SHURITE METERS, 61 Hamilton St., New Haven 8, Conn. ADV. PG. 216.
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- ① Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—pH Meters, Recorders & Comparators

- ① Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ① Bristol Co., The, Waterbury 20, Conn.
- ① Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- ① Coleman Instruments, Inc., 318 Madison St., Maywood, Ill.
- ① Fisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- ① LaMotte Chemical Products Co., Towson 4, Baltimore, Md.
- ① Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ① Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ① Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ① National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- ① Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- ① Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Phase Angle

- ① Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① Hastings Instrument Co., Box 1275, Hampton, Va.
- ① KROHN-HITE INSTRUMENT CO., 580 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 128.
- ① Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Photoelectric Reflection

- ① American Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
- ① G-M LABORATORIES, INC., 4313 N. Knox Ave., Chicago, Ill. ADV. PG. 142.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- ① INSTRUMENT DEVELOPMENT LABORATORIES, INC., Needham Heights, Mass. ADV. PG. 243.
- Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- ① Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Power Factor

- ① Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ① Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ① Roller-Smith, Bethlehem, Pa.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Q

- ① BOONTON RADIO CORP., Boonton, N. J. ADV. PG. 107.
- ① ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ① FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- ① Marconi Instruments Ltd., 23 Beaver St., New York 4, N. Y.
- ① Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

METERS—RF Power

- ① BIRD ELECTRONIC CORP., 1800 E. 38th St., Cleveland 14, Ohio. ADV. PG. 184, 185.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① International Instruments, Inc., 331 East St., New Haven 11, Conn.
- ① JONES ELECTRONICS CO., M. C., Bristol, Conn. ADV. PG. 138.
- ① Marconi Instruments Ltd., 23 Beaver St., New York 4, N. Y.
- ① POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- ① Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- ① Rollin Co., 2070 N. Fair Oak Ave., Pasadena 3, Calif.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Sound Level

- ① Burlington Instrument Co., Burlington, Iowa.
- Electro-Mechanical Instrument Co., 812 Chetsnut St., Perkasie, Pa.
- ① Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① International Instruments, Inc., 331 East St., New Haven 11, Conn.
- ① KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ① Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- ① Simpson Electric Co., Div. American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ① Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

METERS—Standing Wave Ratio

- ① Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- ① Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.
- ① GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ① HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ① JONES ELECTRONICS CO., M. C., Bristol, Conn. ADV. PG. 138.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓢ Rollin Co., 2070 N. Fair Oaks Ave, Pasadena 3 Calif.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Varian Associates, 99 Washington St., San Carlos, Calif.
- Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

METERS—Tension

- Ⓢ Boulin Instrument Corp., 65 Madison Ave., New York 16, N. Y.
- Ⓢ Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.
- Ⓢ Saxl Instrument Co., Harvard, Mass.
- Ⓢ Sipp-Eastwood Corp., Keen & Summer Sts., Paterson, N. J.

METERS—Thermocouple

- Ⓢ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- Ⓢ Bristol Co., The, Waterbury 20, Conn.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- Ⓢ Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- Ⓢ International Instruments, Inc., 331 East St., New Haven 11, Conn.
- Ⓢ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Ⓢ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓢ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓢ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓢ Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓢ Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

METERS—Vibration

- Ⓢ AIRCRAFT ELECTRONICS ASSOCIATES, INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- Ⓢ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓢ Calidyne Co., The, 751 Main St., Winchester, Mass.
- Ⓢ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
- Ⓢ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ M B MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.
- Ⓢ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

METERS—Viscosity

- Ⓢ Fischer & Porter Co., Hatboro, Pa.
- Ⓢ Fisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.
- Ⓢ Gardner Lab., Inc., Henry A., 4723 Elm St., Bethesda 14, Md.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓢ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

METERS—Wave

- American Electroneering Co., 2112 LaBrea Ave., Los Angeles, Calif.
- Ⓢ Automatic Signal Division, 100 Regent St., East Norwalk, Conn.
- Ⓢ Decimeter, Inc., 1430 Market St., Denver 2, Colorado.
- Ⓢ Frequency Standards Corp., Box 66, Eatontown, N. J.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ MICO INSTRUMENT CO., 80 Trowbridge St., Cambridge 38, Mass. ADV. PG. 263.
- Ⓢ Microwave Equipment Co., Inc., North Caldwell, N. J.

- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Varian Associates, 99 Washington St., San Carlos, Calif.
- Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif.

METERS, WOW AND FLUTTER

- Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓢ Furst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

METERS—X-Ray Intensity

- Ⓢ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓢ General Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓢ Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓢ Picker X-Ray Corp., 300 Fourth Ave., New York 10, N. Y.
- Ⓢ Special Instruments Laboratory, inc., 1003 Highland Ave., Knoxville, Tenn.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

MICA**See Insulation Materials****MICROAMMETERS**

- Ⓢ Assembly Products, Inc., Chagrin Falls 6, Ohio.
 - Ⓢ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
 - Ⓢ Beede Electrical Instrument Co., Inc., Penacook, N. H.
 - Ⓢ BETA ELECTRIC CORP., 1762 3rd Ave., New York 29, N. Y. ADV. PG. 171.
 - Ⓢ Burlington Instrument Co., Burlington, Iowa.
 - Ⓢ Coastwise Electronics Corp., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
 - Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles, 15, Calif.
 - Ⓢ DEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
 - Ⓢ Electric Design & Mfg. Corp., Burlington, Iowa.
 - Ⓢ G-M LABORATORIES, 4313 N. Knox Ave., Chicago, Ill. ADV. PG. 142.
 - Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 - Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 - Ⓢ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
 - Ⓢ International Instruments, Inc., 331 East St., New Haven 11, Conn.
 - Ⓢ MACDONALD CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. ADV. PG. 218.
 - Ⓢ MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
 - Ⓢ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
 - Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 - Ⓢ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
 - Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 - Ⓢ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
 - Ⓢ Roller-Smith, Bethlehem, Pa.
 - Ⓢ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
 - Ⓢ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
 - Ⓢ Triplett Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.
 - Ⓢ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
 - Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 - Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- MICRO-MICROAMMETERS**
- Ⓢ Atlas Coil Winders, Inc., Stamford, Conn.
 - Ⓢ BETA ELECTRIC CORP., 1762 3rd Ave., New York 29, N. Y. ADV. PG. 171.

- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Industrial Control Co., 1462 Undercliff Ave., New York 52, N. Y.
- Ⓢ MILLIVAC INSTRUMENTS, Box 3027, New Haven, Conn. ADV. PG. 182.
- Ⓢ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓢ Varo Mfg. Co., Inc., Box 638, Garland, Texas.

MICROFARADAMETERS

- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

MICROMETERS—Electronic

- Ⓢ Carson Microameter Corp., 2 E. Main St., Little Falls, N. J.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Electro Products Labs., Inc., 549 W. Randolph St., Chicago 6, Ill.
- Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit, Mich. ADV. PG. 255.
- Ⓢ Wilmotte Inc., Raymond M., 1469 Church St., N. W., Washington 5, D. C.

MICROPHONES—Aircraft Type

- Ⓢ American Microphone Co., 370 S. Fair Oaks Ave., Pasadena 1, Calif.
- Ⓢ AVIOMETER, Div. of Roanwell Corp., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

MICROPHONES—Carbon

- Ⓢ American Microphone Co., 370 S. Fair Oaks Ave., Pasadena 1, Calif.
- Ⓢ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓢ AVIOMETER, Div. of Roanwell Corp., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓢ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ Connecticut Telephone & Electric Div. Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓢ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓢ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓢ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Ⓢ SHURE BROTHERS, INC., 225 W. Huron St., Chicago 10, Ill. ADV. PG. 19.
- Ⓢ Soundscriber Corp., 146 Munson St., New Haven, Conn.
- Ⓢ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Telephonics Corp., Park Ave., Huntington, N. Y.
- Ⓢ TURNER CO., The, 909 17th St., N. E., Cedar Rapids, Iowa. ADV. PG. 54.
- Ⓢ UNIVERSITY LOUDSPEAKERS INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231.

MICROPHONES—Condenser

- Ⓢ Altec-Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓢ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.

MICROPHONES—Contact

- Ⓢ American Microphone Co., 370 So. Fair Oaks Ave., Pasadena 1, Calif.
- Ⓢ AMPERITE CO., 561 Broadway, New York 12, N. Y. ADV. PG. 218.
- Ⓢ Astatic Corp., The Connaught, Ohio.
- Ⓢ AVIOMETER DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓜ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓜ Rowe Industries, 1702 Wayne St., Toledo 9, Ohio.
- Ⓜ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- Ⓜ TURNER CO., THE, 909 17th St., N. E. Cedar Rapids, Iowa. ADV. PG. 54.

MICROPHONES—Crystal

- Ⓜ American Microphone Co., 370 So. Fair Oaks Ave., Pasadena 1, Calif.
- Ⓜ Astatic Corp., The, Conneaut, Ohio.
- Ⓜ BUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓜ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓜ Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.
- Ⓜ Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- Ⓜ SHURE BROTHERS, INC., 225 W. Huron St., Chicago 40, Ill. ADV. PG. 19.
- Ⓜ Snotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y.
- Ⓜ Tibbetts Industries, Inc., Camden, Maine.
- Ⓜ TURNER CO., THE, 909 17th St., N. E. Cedar Rapids, Io. ADV. PG. 54.

MICROPHONES—Dynamic

- Ⓜ Atec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓜ American Microphone Co., 370 So. Fair Oaks Ave., Pasadena 1, Calif.
- Ⓜ AMPERITE CO., 561 Broadway, New York 12, N. Y. ADV. PG. 218.
- Ⓜ Astatic Corp., The, Conneaut, Ohio.
- Ⓜ VIOMETER, DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓜ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓜ Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.
- Ⓜ Hermoflux Corp., 4900 W. Grand Ave., Chicago 39, Ill.
- Ⓜ Icon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- Ⓜ SHURE BROTHERS, INC., 225 W. Huron St., Chicago 40, Ill. ADV. PG. 19.
- Ⓜ Shunderscriber Corp., 146 Munson St., New Haven 4, Conn.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, Enoland.
- Ⓜ Telephonics Corp., Park Ave., Huntington, N. Y.
- Ⓜ TURNER CO., THE, 909 17th St., N. E. Cedar Rapids, Iowa. ADV. PG. 54.

MICROPHONES, NOISE CANCELLING

- Ⓜ VIOMETER DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓜ ELECTRO VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓜ Telephonics Corp., Park Ave., Huntington, N. Y.

MICROPHONES—Velocity

- Ⓜ Atec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓜ AMPERITE CO., 561 Broadway, New York 12, N. Y. ADV. PG. 218.
- Ⓜ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓜ National Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ TURNER CO., THE, 909 17th St., N. E. Cedar Rapids, Iowa. ADV. PG. 54.

MICROSCOPES—Electron

- Ⓜ Fairand Optical Co., Inc., Bronx Blvd. & 238th St., New York 66, N. Y.
- Ⓜ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

MICROWAVE TRANSMISSION LINES & MICRO-WAVE ACCESSORIES

- Ⓜ C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- Ⓜ Kerr Co., F. C., 64-72 Howard St., Irvington, N. J.

- Ⓜ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- Ⓜ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓜ Product Development Co., Inc., Arlington, N. J.
- Ⓜ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ⓜ Schutter, Carl W., Rockville Centre, N. Y.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Ⓜ Technicraft Laboratories, Inc., Thomaston-Waterbury Rd., Thomaston, Conn.
- Ⓜ Telemark Electronics Corp., 150 Broadway, New York, N. Y.
- Ⓜ Terpening Co., L. H., 16 W. 61st St., New York, N. Y.
- Ⓜ TITFLEX, INC., 500 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 148.
- Ⓜ Varian Associates, 99 Washington St., San Carlos, Calif.
- Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

MILLIAMMETERS

- Ⓜ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- Ⓜ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓜ Beede Electrical Instrument Co., Inc., Penacook, N. H.
- Ⓜ Burlington Instrument Co., Burlington, Iowa.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ DEJUR-AMSCO CORP., Northern Blvd., at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- Ⓜ Electric Design & Mfg. Corp., Burlington, Iowa.
- Ⓜ Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.
- Ⓜ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Ⓜ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓜ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- Ⓜ International Instruments Inc., 331 East St., New Haven 11, Conn.
- Ⓜ J B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- Ⓜ MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Ⓜ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Ⓜ Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Ⓜ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓜ Reliance Instrument Co., 3027 W. Van Buren St., Chicago 12, Ill.
- Ⓜ Roller-Smith, Bethlehem, Pa.
- Ⓜ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓜ SHURITE METERS, 61 Hamilton St., New Haven 8, Conn. ADV. PG. 216.
- Ⓜ Simpson Electric Co., Div. of American Gage & Machine Co., 5218 W. Kinzie St., Chicago 44, Ill.
- Ⓜ Sterling Mfg. Co., 9205 Detroit Ave., Cleveland 2, Ohio.
- Ⓜ Supreme, Inc., Greenwood, Miss.
- Ⓜ Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- Ⓜ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

MILLIVOLTMETERS

- Ⓜ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- Ⓜ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓜ BALLANTINE LABORATORIES, Boonton, N. J. ADV. PG. 96.
- Ⓜ Beede Electrical Instrument Co., Inc., Penacook, N. H.
- Ⓜ Burlington Instrument Co., Burlington, Iowa.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
- Ⓜ DEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- Ⓜ Electric Design & Mfg. Corp., Burlington, Iowa.
- Ⓜ Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.

MILLIVOLTMETERS

- Ⓜ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- Ⓜ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓜ BALLANTINE LABORATORIES, Boonton, N. J. ADV. PG. 96.
- Ⓜ Beede Electrical Instrument Co., Inc., Penacook, N. H.
- Ⓜ Burlington Instrument Co., Burlington, Iowa.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
- Ⓜ DEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- Ⓜ Electric Design & Mfg. Corp., Burlington, Iowa.
- Ⓜ Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.

- Ⓜ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 16, Ind.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓜ Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- Ⓜ Industrial Control Co., 1462 Undercliff Ave., New York 52, N. Y.
- Ⓜ International Instruments, Inc., 331 East St., New Haven 11, Conn.
- Ⓜ MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Ⓜ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Ⓜ Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Ⓜ MILLIVAC INSTRUMENTS, Box 3027, New Haven, Conn. ADV. PG. 182.
- Ⓜ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓜ RAWSON ELECTRICAL INSTRUMENTS CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓜ Reliance Instrument Co., 3027 W. Van Buren St., Chicago 12, Ill.
- Ⓜ Roller-Smith, Bethlehem, Pa.
- Ⓜ Sensitive Research Instrument Corp., 9 Elm St., Mt. Vernon, N. Y.
- Ⓜ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓜ Sterling Mfg. Co., 9205 Detroit Ave., Cleveland 2, Ohio.
- Ⓜ Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- Ⓜ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓜ Wheelock Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

MIRRORS—Television

- Ⓜ Bache & Co., Semon, 636 Greenwich St., New York 14, N. Y.
- Ⓜ Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓜ House of Television Inc., 40 W. 4th St., New York 12, N. Y.
- Ⓜ Optical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.
- Ⓜ Pancro Mirrors Inc., 2958 Los Feliz Blvd., Los Angeles 26, Calif.
- Ⓜ Sightmaster Corp., 20 E. 35th St., New York 16, N. Y.
- Ⓜ Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.

MONITORS—Frequency

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Berkeley Scientific Co., Richmond, Calif.
- Ⓜ Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓜ DuMont Laboratories, Inc., Allen B., Television Transmitter Div., 1000 Main Ave., Clifton, N. J.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ LAMPKIN LABORATORIES, INC., Bradenton, Fla. ADV. PG. 278.
- Ⓜ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓜ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓜ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓜ Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- Ⓜ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.

MONITORS—Modulation

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.

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- Du Mont Laboratories, Inc., Allen B., 1000 Main Ave., Clifton, N. J.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
- Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.

MONITORS—Television

- Du Mont Laboratories, Inc., Allen B., Television Transmitter Div., 1000 Main Ave., Clifton, N. J.
- FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Telegrip Radio Co., 1901 S. Washtenaw, Chicago, Ill.
- Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.
- Television Utilities Corp., 1261 Broadway, New York 1, N. Y.

MONITORS—(FS) Transmitter

- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Erco Radio Labs., Inc., E. Stewart Ave., Garden City, N. Y.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Radio Mfg. Engineers, Inc., 300-302 First Ave., Peoria 6, Ill.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.

MOTORS—Fractional hp

- Air Associates Inc., Teterboro, N. J.
- Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio.
- Barber-Colman Co., Rockford, Ill.
- Bodine Electric Co., Ohio St. & Oakley Blvd., Chicago 12, Ill.
- Bogue Electric Mfg. Co., 52 Iowa Ave., Paterson, N. J.
- Burke Electric Co., 12th & Cranberry Sts., Erie, Pa.
- Carron Mfg. Co., 415 S. Aberdeen St., Chicago 7, Ill.
- Century Electric Co., 1806 Pine St., St. Louis 3, Mo.
- Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Cyclohm Motor Corp., Div., Howard Industries, Inc., Racine, Wis.
- Delco Appliance Div., General Motors Corp., 391 Lyell Ave., Rochester, N. Y.
- Diehl Mfg. Co., 1129 FINDERNE AVE., Somerville, N. J.
- Dumore Co., The, 1300 Seventeenth St., Racine, Wis.
- EASTERN AIR DEVICES, INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Etcor, Inc., 1501 W. Congress St., Chicago 7, Ill.
- ELECTRIC INDICATOR CO., 21 Parker Ave., Stamford, Conn. ADV. PG. 160.
- Electric Specialty Co., 211 South St., Stamford, Conn. Electro-Aire, Inc., 11439 Vanowen St., North Hollywood, Calif.
- Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
- Fasco Industries, Inc., Rochester 2, N. Y.
- FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., Long Island City, N. Y. ADV. PG. 278.
- G-M LABORATORIES, 4313 N. Knox Ave., Chicago, Ill. ADV. PG. 142.
- Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Gleason-Avery Inc., Auburn, N. Y.
- Globe Industries, 125 Sunrise Place, Dayton, Ohio.
- Holtzer-Cabot, Div. of National Pneumatic Co., Inc., 125 Amory St., Boston 19, Mass.
- L & R Mfg. Co., 577 Elm St., Arlington, N. J.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.

- Leland Electric Co., The, 1501 Webster St., Dayton 1, Ohio.
- Marco Industries, Inc., 788 Terrace Blvd., Depew, N. Y.
- Mission Electric Mfg. Co., 132 W. Colorado Blvd., Pasadena, Calif.
- Piqua Machine & Mfg. Co., Young & College Sts., Piqua, Ohio.
- PRICE Electric Corp., Frederick, Md.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- RED BANK DIVISION, Bendix Aviation Corp., Red Bank, N. J. ADV. PG. 61, 127.
- Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield 99, Ohio.
- Russell Electric Co., 4501 South Western Blvd., Chicago 9, Ill.
- Small Motors Inc., 2076 Elston Ave., Chicago 14, Ill.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- Star-Kimble Electric Co., 200 Bloomfield Ave., Bloomfield, N. J.
- U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 64, Calif.
- Universal Electric Co., 300 E. Main St., Owosso, Mich.
- Victor Electric Products, Inc., 2950 Robertson Ave., Cincinnati 9, Ohio.
- Wagner Electric Corp., 6400 Plymouth Ave., St. Louis, Mo.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Wincharger Corp., E. 7th & Division Sts., Sioux City, Iowa.

MOTORS—Phonograph

- Air Associates, Inc., Teterboro, N. J.
- Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio.
- Carron Mfg. Co., 415 S. Aberdeen St., Chicago 7, Ill.
- Garrard Sales Corp., 164 Duane St., New York 13, N. Y.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- General Industries Co., Taylor & Olive Sts., Elyria, Ohio.
- Gleason-Avery Inc., Auburn, N. Y.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield 99, Ohio.
- Small Motors Inc., 2076 Elston Ave., Chicago 14, Ill.
- Webster-Chicago Corp., 5622 Bloomingdale Ave., Chicago 39, Ill.
- Wincharger Corp., E. 7th & Division Sts., Sioux City, Iowa.

MOTORS—Remote Control

- Air Associates Inc., Teterboro, N. J.
- American Electric Motors, Inc., Los Angeles, Calif.
- ARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
- Barber-Colman Co., Rockford, Ill.
- Bodine Electric Co., Ohio St. & Oakley Blvd., Chicago 12, Ill.
- Diehl Mfg. Co., 1129 FINDERNE AVE., Somerville, N. J. Electro-Aire, Inc., 11439 Vanowen St., North Hollywood, Calif.
- FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., Long Island City, N. Y. ADV. PG. 278.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
- Mission Electric Mfg. Co., 132 W. Colorado Blvd., Pasadena, Calif.
- Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.

MOTORS—Servo

- Air Associates Inc., Teterboro, N. J.
- American Electric Motors, Inc., Los Angeles, Calif.
- ARMA CORP., 254 36th St., Brooklyn 32, N. Y. ADV. PG. 146.
- Barber-Colman Co., Rockford, Ill.
- Cyclohm Motor Corp., Div., Howard Industries, Inc., Racine, Wis.
- Diehl Manufacturing Co., 1129 FINDERNE AVE., Somerville, N. J.
- EASTERN AIR DEVICES INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- ELECTRIC INDICATOR CO., 21 Parker Ave., Stamford, Conn. ADV. PG. 160.
- FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., Long Island City, N. Y. ADV. PG. 278.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

- Hansen Mfg. Co., Inc., Princeton 10, Indiana.
- Holtzer-Cabot, Div. of National Pneumatic Co., Inc., 125 Amory St., Boston 19, Mass.
- KOLLSMAN INSTRUMENT DIV. of Square D Co., 80-08 45th Ave., Elmhurst, N. Y. ADV. PG. 118.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Mission Electric Mfg. Co., 132 W. Colorado Blvd., Pasadena, Calif.
- RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- TRANSICOTL CORP., 114 Worth St., New York 13, N. Y. ADV. PG. 129.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

MOTORS—Synchronous

- Barber-Colman Co., Rockford, Ill.
- Bodine Electric Co., Ohio St. & Oakley Blvd., Chicago 12, Ill.
- BRISTOL MOTOR CO., Old Saybrook, Conn. ADV. PG. 182.
- Burke Electric Co., 12th & Cranberry Sts., Erie, Pa.
- Carron Mfg. Co., 415 S. Aberdeen, Chicago 7, Ill.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Continental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.
- Cyclohm Motor Corp., Div., Howard Industries, Inc., Racine, Wis.
- EASTERN AIR DEVICES INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- ELECTRIC INDICATOR CO., 21 Parker Ave., Stamford, Conn. ADV. PG. 160.
- Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio.
- Electric Specialty Co., 211 South St., Stamford, Conn.
- Electro-Aire, Inc., 11439 Vanowen St., North Hollywood, Calif.
- Electyome Motor Products Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
- Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- Gorrell & Gorrell, Haworth, N. J.
- FORD INSTRUMENT CO., INC., 31-10 Thomson Ave., Long Island City, N. Y. ADV. PG. 278.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Gleason-Avery, Inc., Auburn, N. Y. Hagen Mfg. Co., Inc., Baraboo, Wis.
- Hansen Mfg. Co., Inc., Princeton 10, Indiana.
- HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Holtzer-Cabot Div. of National Pneumatic Co., Inc., 125 Amory St., Boston 19, Mass.
- Kato Engineering Co., 1415 First Ave., Mankato, Minn.
- KOLLSMAN INSTRUMENT DIV. of Square D Co., 80-08 45th Ave., Elmhurst, N. Y. ADV. PG. 118.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Mission Electric Mfg. Co., 132 W. Colorado Blvd., Pasadena, Calif.
- Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield 99, Ohio.
- Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
- Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- TELECHRON INC., Homer Ave., Ashland, Mass. ADV. PG. 197.
- TRANSICOTL CORP., 114 Worth St., New York 13, N. Y. ADV. PG. 129.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

MOTORS—Timing

- Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio.
- Amglo Corp., 4234 Lincoln Ave., Chicago 18, Ill.
- Barber-Colman Co., Rockford, Ill.
- Bodine Electric Co., Ohio St. & Oakley Blvd., Chicago 12, Ill.
- BRISTOL MOTOR CO., Old Saybrook, Conn. ADV. PG. 182.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Electyome Motor Products Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Gleason-Avery, Inc., Auburn, N. Y.
- Globe Industries, 125 Sunrise Pl., Dayton, Ohio.

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- Gorrell & Gorrell, Haworth, N. J.
- Hagen Mfg. Co., Inc., Baraboo, Wis.
- Hansen Mfg. Co., Inc., Princeton 10, Ind.
- HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury Conn., ADV. PG. 236.
- HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- Holtzer-Cabot Div. of National Pneumatic Co., Inc., 125 Amory St., Boston 19, Mass.
- Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.

MOUNTINGS—Meter Back

- LITTELFUSE, INC., 4757 Ravenswood Ave., Chicago 40, Ill. ADV. PG. 164.
- LORD MFG. CO., 1635 W. 12th St., Erie, Pa. ADV. PG. 55.
- MARLOW ELECTRICAL INSTRUMENT CO., Manchester, N. M. ADV. PG. 130.
- RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.

MOUNTINGS—Vibration and Shock

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- BARRY CORP., THE, 179 Sidney St., Cambridge, Mass. ADV. PG. 159.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- General Tire & Rubber Co., Silentbloc Div., Wabash, Ind.
- Hamilton Kent Mfg. Co., Kent, Ohio.
- LORD MFG. CO., 1635 W. 12th St., Erie, Pa. ADV. PG. 55.
- Mayfair Molded Products Corp., 4440 N. Elston Ave., Chicago 30, Ill.
- MB MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.
- Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- Remler Co., Ltd., 2101 Bryant St., San Francisco, Calif.
- ROBINSON AVIATION INC., Teterboro, N. J. ADV. PG. 67.
- Ucinite Co., The, Div., United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
- United Shoe Machinery Corp., 142 Federal St., Boston, Mass.
- U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.

MOUNTS—Antenna

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- Industrial Precision Products Co., 315-325 N. Hoyne Ave., Chicago 12, Ill.
- J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Magna Mfg. Co., Inc., East Rutherford, N. J.
- LaPointe-Plascomold Corp., Unionville, Conn.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.
- Product Development Co., Inc., Arlington, N. J.
- Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Rostan Corp., 202 E. 44th St., New York 17, N. Y.
- Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- South River Metal Products Co., South River, N. J.
- Taylor Fibre Co., Norristown, Pa.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.
- Ward Products Corp., Div. of The Gabriel Corp., 1523 E. 45th St., Cleveland 3, Ohio.
- Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.

MOUNTS—Thermistor

- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.

MULTIPLIERS—Crystal

- KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

MULTIPLIERS—Frequency

- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- NORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

MULTIPLIERS—Meter

- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Daven Co., 191 Central Ave., Newark 4, N. J.
- Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- INSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Precision Resistor Co., 334 Badger Ave., Newark 8, N. J.
- Radio City Products Co., Inc., 152 W. 25th St., New York 1, N. Y.
- Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Sensitive Research Instrument Corp., 9 Elm St., Mt. Vernon, N. Y.
- Tech Laboratories, Inc., Bergen & Edsall Bldgs., Palisades Park, N. J.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Freylinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

MULTITESTERS

- Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Douglas Radio Labs., 40 Wayland St., Boston, Mass.
- Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- Radio City Products Co., Inc., 152 W. 25th St., New York 1, N. Y.
- RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Star Measurements Co., 442 East 166th St., New York 56, N. Y.
- SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Freylinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

MULTIVIBRATORS

- Acme Electronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.

- EL-TRONICS, INC., 2649 No. Howard St., Philadelphia Pa. ADV. PG. 238.
- GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit, Mich. ADV. PG. 255.
- Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- NORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.

MUSIC SYSTEMS—Industrial and Commercial

- ALLIED RADIO CORP., 833 W. Jackson Blvd., Chicago 7, Ill. ADV. PG. 226.
- Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- Boom Electric & Amplifier Co., 1227 W. Washington Blvd., Chicago 7, Ill.
- Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
- Commercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
- Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Lekas Mfg. Co., Ann Arbor, Mich.
- Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
- Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Front and Back Covers.
- Radio-Music Corp., Port Chester, N. Y.
- Rauland-Borg Corp., 3523 W. Addison St., Chicago 18, Ill.
- Riggs & Jeffreys, Inc., 140 Glenridge Ave., Montclair, N. J.
- Schulerich Electronics, Inc., Sellersville, Pa.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Western Sound & Electric Labs., Inc., 805 S. Fifth St., Milwaukee 4, Wis.
- Wurlitzer Co., Rudolph, The, N. Tonawanda, N. Y.

NAILS—Special

- Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
- American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
- Atlas Tack Corp., Pleasant St., Fairhaven, Mass.
- Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Copperweld Steel Co., Glassport, Pa.
- Elastic Stop Nut Corp., 2330 Vauxhall Rd., Union, N. J.
- Greene Mfg. Corp., G. G., Warren, Pa.
- Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Hassall, Inc., John, Clay & Oakland Sts., Brooklyn 22, N. Y.
- Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
- National Screw & Mfg. Co., Cleveland 4, Ohio.
- Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Wickwire Spencer Steel Div., The Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y.

NAME PLATES

See Plates, Name

NEEDLES—Cutting

- Acton Co., Inc., H. W., 370 7th Ave., New York 1, N. Y.
- Aim Industries, 41 Union Sq., New York 3, N. Y.
- American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
- AUDIO DEVICES, INC., 444 Madison Ave., New York 22, N. Y. ADV. PG. 37.
- CAPPS CO., INC., FRANK L., 244 W. 49th St., New York 19, N. Y. ADV. PG. 262.
- Ductone Co., Keyport, N. J.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
 GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 General Industries Co., Taylor & Olive Sts., Elyria, Ohio.
 J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 Mirror Record Corp., 1133 Broadway, New York 10, N. Y.
 North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Permo, Inc., 6415 Ravenswood Ave., Chicago 26, Ill.
 Recordisc Corp., 395 Broadway, New York, N. Y.
 Recotone Corp., 251 Fourth Ave., New York 10, N. Y.
 REEVES SOUNDCRAFT CORP., 35-34 36th St., Long Island City, N. Y. ADV. PG. 171.
 Soeak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.

NEEDLES—Playback

Acton Co., Inc., H. W., 370 7th Ave., New York 1, N. Y.
 Aero Needle Co., 619 N. Michigan Ave., Chicago 11, Ill.
 Aim Industries, 41 Union Sq., New York 3, N. Y.
 American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
 Astatic Corp., The, Conneaut, Ohio.
 AUDIO DEVICES, INC., 444 Madison Ave., New York 22, N. Y. ADV. PG. 37.
 CAPPS & CO., INC., FRANK L., 244 W. 49th St., New York 19, N. Y. ADV. PG. 262.
 Clarkstan Corp., 11927 SW. Pico Blvd., Los Angeles 64, Calif.
 Duotone Co., Keyport, N. J.
 ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
 Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
 GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 General Industries Co., Taylor & Olive Sts., Elyria, Ohio.
 Gerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.
 J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 Jensen Industries Inc., 329 S. Wood St., Chicago, Ill.
 Mirror Record Corp., 1133 Broadway, New York 10, N. Y.
 Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
 Permo, Inc., 6415 Ravenswood Ave., Chicago 26, Ill.
 Pfanstiehl Chemical Co., Metallurgical Div., 104 Lake View Ave., Waukegan, Ill.
 Phonograph Needle Mfg. Co., Inc., 42 Dudley St., Providence 5, R. I.
 RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Recordisc Corp., 395 Broadway, New York, N. Y.
 Recotone Corp., 251 Fourth Ave., New York 10, N. Y.
 REEVES SOUNDCRAFT CORP., 35-34 36th St., Long Island City, N. Y. ADV. PG. 171.
 Royal Diamond Tool Co., 172 Green St., Boston 30, Mass.
 SHURE BROTHERS, INC., 225 W. Huron St., Chicago 10, Ill. ADV. PG. 19.
 Soeak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
 Tetrad Corp., 60 N. Broadway, Yonkers 2, N. Y.
 Vailorbs Jewel Co., Lancaster, Pa.
 Webster-Chicago Corp., 5622 Bloomingdale Ave., Chicago 39, Ill.

Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
 Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
 Tech Laboratories, Inc., Bergen & Edsall Bldgs., Palisades Park, N. J.
 TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
 VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

NETWORKS—Pulse Forming

Aerovox Corp., 740 Belleville Ave., New Bedford, Mass.
 Aircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
 BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Berkshire Laboratories, P. O. Box 70, Concord, Mass.
 COMMUNICATION ACCESSORIES CO., Box 345, 110th St. Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
 CONDENSER PRODUCTS CO., 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
 Deutchmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Sprague Electric Co., North Adams, Mass.
 Tech Laboratories, Inc., Bergen & Edsall Bldgs., Palisades Park, N. J.
 U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.

NEUTRON SOURCES

Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.
 U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

NUTS

AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
 Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
 American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
 Autoscrew Co., 216-222 W. 18th St., New York, N. Y.
 BLAKE & JOHNSON CO., Waterville 48, Conn. ADV. PG. 223.
 Burndy Engineering Co., Inc., 107 Bruckner Blvd., New York 54, N. Y.
 Central Screw Co., 3501 Shields Ave., Chicago 9, Ill.
 Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
 Columbia Nut & Bolt Co., 945 Main St., Bridgeport 3, Conn.
 Continental Screw Co., New Bedford, Mass.
 FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 Garrett Co., Inc., George K., D & Tioga Sts., Philadelphia 34, Pa.
 GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
 INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
 Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
 National Screw & Mfg. Co., The, Cleveland 4, Ohio.
 PALNUT CO., INC., 77 Cordier St., Irvington 11, N. J. ADV. PG. 170.
 Pheoll Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
 Progressive Mfg. Co., 50 Norwood St., Torrington, Conn.
 Rattan Mfg. Co., The, P. O. Box 1745, New Haven 7, Conn.
 Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
 Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 South River Metal Products Co., South River, N. J.
 Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
 Stronghold Screw Products, Inc., 216-222 West Hubbard St., Chicago 10, Ill.
 Tinnerman Products Inc., 2038 Fulton Rd., Cleveland 13, Ohio.
 United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.
 Westfield Metal Products Co., Inc., Elm & Burton Sts., Westfield, Mass.

NUTS—Self-Locking

Beach Precision Parts Co., Boonton, N. J.
 Boots Aircraft Nut Corp., 50 John St., Stamford, Conn.
 Columbia Nut & Bolt Co., 945 Main St., Bridgeport 3, Conn.
 Elastic Stop Nut Corp., 2330 Vauxhall Road, Union, N. J.
 FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 Garrett Co., Inc., George K., D & Tioga Sts., Philadelphia 34, Pa.
 Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
 National Screw & Mfg. Co., The, Cleveland 4, Ohio.
 PALNUT CO., INC., 77 Cordier St., Irvington 11, N. J. ADV. PG. 170.
 Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
 Shakeproof, Inc., Div. of Illinois Tool Wks., 2501 N. Keeler Ave., Chicago 39, Ill.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
 Standard Pressed Steel Co., Jenkintown 10, Pa.
 Stover Lock Nut & Machinery Corp., Hilton & Holly Sts., Easton, Pa.
 Stronghold Screw Products, Inc., 216-222 West Hubbard St., Chicago 10, Ill.
 Tinnerman Products, Inc., 2038 Fulton Rd., Cleveland 13, Ohio.
 United Carr Fastener Corp., Cambridge 42, Mass.

NUTS—Self-Sealing

Elastic Stop Nut Corp., 2330 Vauxhall Rd., Union, N. J.
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
 RADIO FREQUENCY LABS, INC., Boonton 2, N. J. ADV. PG. 172.
 Stronghold Screw Products Inc., 216-222 W. Hubbard St., Chicago 10, Ill.

OHMMETERS

Associated Research Inc., 3758 W. Belmont, Chicago 18, Ill.
 Beede Electrical Instrument Co., Inc., Penacook, N. H.
 Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
 Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.
 Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Dillon & Co., Inc., W. C., 5401 W. Harrison St., Chicago 44, Ill.
 ELECTRONIC DESIGNS, INC., Irvington, N. Y. ADV. PG. 199.
 ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Esterline-Angus Co., Inc., P. O. Box 586, Indianapolis 6, Ind.
 Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
 HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
 International Instruments, Inc., 331 East St., New Haven 11, Conn.
 J B T INSTRUMENTS, INC., 431 Chapel St., New Haven 8, Conn. ADV. PG. 261.
 Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
 Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
 Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
 Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
 MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
 Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
 Radio Design Co., 1353 Sterling Pl., Brooklyn, N. Y.
 RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
 Roller-Smith, Bethlehem, Pa.
 SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
 SHURITE METERS, 61 Hamilton St., New Haven 8, Conn. ADV. PG. 216.
 Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
 Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
 Star Measurements Co., 442 East 166th St., New York 56, N. Y.

NETWORKS—Directional Antenna Phasing

Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
 BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Collins Radio Co., Cedar Rapids, Iowa. (v)
 Gates Radio Co., Quincy, Ill.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Johnson Co., E. F., Waseca, Minn.
 Network Mfg. Corp., Bayonne, N. J.
 RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

NETWORKS—Matching

Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
 BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.
 Collins Radio Co., Cedar Rapids, Iowa.
 COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
 Daven Co., 191 Central Ave., Newark 4, N. J.
 Gates Radio Co., Quincy, Ill.
 J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 Network Mfg. Corp., Bayonne, N. J.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Sterling Mfg. Co., 9205 Detroit Ave., Cleveland 2, Ohio.
- Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N. Y.
- Ⓢ Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- Ⓢ Supreme Inc., Greenwood, Miss.
- Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓢ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuyzen Ave., Newark 5, N. J. ADV. PG. 108.

OPTICAL EQUIPMENT AND OPTICAL SPECIALTIES

- Ⓢ American Optical Co., Scientific Instrument Div., Box A, Buffalo 15, N. Y.
- Ⓢ Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓢ Bache & Co., Semon, 636 Greenwich St., New York 14, N. Y.
- Ⓢ Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- Ⓢ Buhl Optical Co., 1009 Beech Ave., Pittsburgh 12, Pa.
- Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- Ⓢ Clarkstan Corp., 11927 S.W. Pico Blvd., Los Angeles 54, Calif.
- Ⓢ Electro-Mechanical Research, Inc., Ridgefield, Conn.
- Ⓢ Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- Ⓢ Ferner Co., R. Y., 110 Pleasant St., Malden, Mass.
- Ⓢ Gaertner Scientific Corp., 1201 Wrightwood Ave., Chicago 14, Ill.
- Ⓢ Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
- Ⓢ L & R Mfg. Co., 577 Elm St., Arlington, N. J.
- Ⓢ Optical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.
- Ⓢ Perkin-Elmer Corp., The, Glenbrook, Conn.
- Ⓢ Polan Industries, 220 Eighth St., Huntington, W. Va.
- Ⓢ Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ Viewlex Inc., 35-01 Queens Blvd., Long Island City 1, N. Y.

OSCILLATORS—Audio Fork Controlled

- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
- Ⓢ MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- Ⓢ PHILAMON LABORATORIES, 5717 Third Ave., Brooklyn 20, N. Y. ADV. PG. 84.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓢ Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- Ⓢ TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.

OSCILLATORS—Audio Frequency

- Ⓢ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 4, Mass. ADV. PG. 235.
- Ⓢ Ittec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American British Technology, Inc., 57 Park Ave., New York 16, N. Y.
- American Electroengineering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ CENTRALAB DIV. OF GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓢ Clough Brengle Co., 6014 N. Broadway, Chicago, Ill.
- Coastwise Electronics Corp., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- Ⓢ Cople Instrument Co., 1320 S. Grand Ave., Los Angeles 35, Calif.
- Ⓢ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓢ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ Electronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
- Ⓢ EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 23, Pa. ADV. PG. 238.
- Erico Radio Labs., Inc., E. Stewart Ave., Garden City, N. Y.
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓢ Gates Radio Co., Quincy, Ill.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.

- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ Instrument Electronics, 42-17A Douglaston Parkway, Douglaston, L. I., N. Y.
- Ⓢ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓢ Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- Ⓢ MUIRHEAD & CO., INC., Beckenham-Kent-England. ADV. PG. 71.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Phillips Petroleum Co., Special Products Div., Bartlesville, Okla.
- Ⓢ Radex Corp., 2076 N. Elston Ave., Chicago 14, Ill.
- Ⓢ Radio City Products Co., Inc., 152 W. 25th St., New York 1, N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓢ Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W.C. 2, England.
- Ⓢ Supreme Inc., Greenwood, Miss.
- Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓢ Triumph Mfg. Co., 913 W. Van Buren St., Chicago 7, Ill.
- Ⓢ Weinschel Engineering Co., 123 William St., New York 7, N. Y.

OSCILLATORS—Cavity

- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- Ⓢ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
- Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif.

OSCILLATORS—Crystal

- American Electroengineering Co., 2112 La Brea Ave., Los Angeles, Calif.
- Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓢ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ KNIGHTS CO., James, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- Ⓢ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓢ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓢ Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- Ⓢ NORMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- Ⓢ Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.

- Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
- Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓢ Schuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓢ Valpey Crystals, Highland St., Holliston, Mass.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

OSCILLATORS, GRID DIP—High Frequency & vhf

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- LaRose & Associates, W. T., 646 Second Ave., Troy, N. Y.
- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

OSCILLATORS—Microwave Power

- American Electroengineering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Ⓢ C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓢ Decimeter, Inc., 1430 Market St., Denver 2, Colo.
- Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓢ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓢ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓢ Varian Associates, 99 Washington St., San Carlos, Calif.
- Ⓢ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

OSCILLATORS—Oven Crystal Control

- Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- Ⓢ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓢ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- Ⓢ Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- Ⓢ NORMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- Ⓢ Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- Ⓢ Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
- Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.

OSCILLATORS—Radio Frequency

- Ⓢ Ajax Electrothermic Corp., Ajax Park, Trenton 5, N. J.
- American Electroengineering Co., 2112 La Brea Ave., Los Angeles, Calif.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Bassett Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.
- Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- Ⓢ CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Coastwise Electronics Corp., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.

Ⓢ Clough Brengle Co., 6014 N. Broadway, Chicago, Ill.

Ⓢ Collins Radio Co., Cedar Rapids, Iowa.

Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.

Ⓢ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.

Ⓢ Decimeter Inc., 1430 Market St., Denver 2, Colorado.

Ⓢ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.

Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.

Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.

Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.

Ⓢ Gates Radio Co., Quincy, Ill.

Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.

Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.

Ⓢ Haydu Brothers, Plainfield, N. J.

Ⓢ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.

Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.

Ⓢ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.

Ⓢ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.

Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.

Ⓢ LAMPKIN LABORATORIES, INC., Brandenton, Fla. ADV. PG. 278.

La Rose & Associates, W. T., 646 Second Ave., Troy, N. Y.

Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.

Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.

Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.

Ⓢ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.

Ⓢ Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.

Ⓢ Philco Corp., Tioga and C Sts., Philadelphia 34, Pa.

Ⓢ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.

Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.

Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.

Ⓢ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.

Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.

Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.

Ⓢ Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.

Ⓢ Ross Mfg. Co., 860 Washington St., Burlington, Iowa.

Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

Ⓢ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.

Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

Ⓢ Superior Instruments Co., 337 Fulton St., New York 7, N. Y.

Ⓢ Supreme, Inc., Greenwood, Miss.

Ⓢ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

Ⓢ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.

Ⓢ Weltron Co., 19500 West 8 Mile Rd., Detroit 19, Mich.

Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

OSCILLATORS—Ultra-Low Frequency

Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.

Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.

Ⓢ KRÖHN-HITE INSTRUMENT CO., 580 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 128.

OSCILLATORS—Ultrasonic

Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.

Ⓢ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.

Ⓢ CENTRALAB DIV. OF GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.

Ⓢ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.

Ⓢ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.

Ⓢ Fisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.

Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.

Ⓢ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.

Ⓢ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.

Ⓢ Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.

Ⓢ Piezo Products Co., Whitney St., Framingham, Mass.

Ⓢ Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.

Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.

Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn, N. Y.

Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Tex.

Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

Ⓢ Submarine Signal Div., Raytheon Mfg. Co., Waltham 54, Mass.

Ⓢ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.

Ⓢ Valpey Crystals, Highland St., Holliston, Mass.

OSCILLOGRAPHS—Direct Writing See Oscillographs, Recording

OSCILLOGRAPHS—Multi-Element

Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.

Ⓢ BRUSH DEVELOPMENT CO., THE, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.

Ⓢ CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Oklahoma. ADV. PG. 237.

Ⓢ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.

Ⓢ Edin Electronics Co., 207 Main St., Worcester, Mass.

Ⓢ Electrofax Corp., 30 Burtis Ave., New Canaan, Conn.

Ⓢ ELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.

Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.

Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

Ⓢ HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.

Ⓢ Miller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.

Ⓢ Photron Instrument Co., 6516 Detroit Ave., Cleveland 2, Ohio.

Ⓢ RAHM INSTRUMENTS INC., 12 West Broadway, New York 7, N. Y. ADV. PG. 178.

Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.

Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.

Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

OSCILLOGRAPHS—Recording

Ⓢ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.

Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.

Ⓢ BRUSH DEVELOPMENT CO., THE, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.

Ⓢ CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Oklahoma. ADV. PG. 237.

Ⓢ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.

Ⓢ Edin Electronics Co., 207 Main St., Worcester, Mass.

Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.

Ⓢ Electrofax Corp., 30 Burtis Ave., New Canaan, Conn.

Ⓢ ELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.

Ⓢ Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.

Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

Ⓢ Grass Instrument Co., 101 Old Colony Ave., Quincy, Mass.

Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.

Ⓢ HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.

Ⓢ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.

Ⓢ Miller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.

Ⓢ Offner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.

Ⓢ Photron Instrument Co., 6516 Detroit Ave., Cleveland 2, Ohio.

Ⓢ RAHM INSTRUMENTS, INC., 12 West Broadway, New York 7, N. Y. ADV. PG. 178.

Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.

Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.

Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

Ⓢ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Ⓢ Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

OSCILLOGRAPHS—Transient Study See Oscilloscopes, Cathode Ray

OSCILLOSCOPES—Cathode Ray

For Accessories—See Hoods, Viewing

American British Technology, Inc., 57 Park Ave., New York 16, N. Y.

Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.

Ⓢ BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.

Ⓢ Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.

Ⓢ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.

Ⓢ Corsor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.

Ⓢ Du Mont Laboratories, Inc., Allen B., Instrument Div., 1000 Main Ave., Clifton, N. J.

Ⓢ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.

Ⓢ ELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.

Eltron, Inc., 407 N. Jackson St., Jackson, Mich.

Ⓢ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.

Ⓢ Federal Telecommunication Labs., Inc., 500 Washington Ave., Nutley 10, N. J.

Ⓢ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.

Ⓢ First Electronics, 10A S. Jefferson St., Chicago 6, Ill.

Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.

Ⓢ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.

Ⓢ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.

Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.

Ⓢ Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.

Ⓢ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.

Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.

Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.

Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.

Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.

Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.

Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 72 to 75, Inside Back and Back Covers.

Ⓢ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

Ⓢ Supreme, Inc., Greenwood, Miss.

Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Ⓢ Tektronix, Inc., 712 S. E. Hawthorne Blvd., Portland 14, Ore.

Ⓢ Telemark Electronics Corp., 150 Broadway, New York, N. Y.

Ⓢ Television Equipment Corp., 238 William St., New York 7, N. Y.

Ⓢ Triumph Mfg. Co., 913 W. Van Buren St., Chicago 7, Ill.

Ⓢ WATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.

Ⓢ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

OSCILLOSCOPES—Portable Projection

Ⓢ BETA ELECTRIC CORP., 1762 Third Ave., New York 29, N. Y. ADV. PG. 171.

Ⓢ DuMont Laboratories, Inc., Allen B., Instrument Div., 1000 Main Ave., Clifton, N. J.

Ⓢ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.

Ⓢ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.

Ⓢ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.

Ⓢ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.

Ⓢ Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.

Ⓢ Television Equipment Corp., 238 William St., New York 7, N. Y.

Ⓢ Triumph Mfg. Co., 913 W. Van Buren St., Chicago 7, Ill.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

WENS—Electric

- Acme Electric Heating Co., 1217 Washington St., Boston, Mass.
- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Atlas Electric Products Co., P. O. Box 1591 Erie, Pa.
- Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Eisler Engineering Co., Inc., 740 S. 13th St., Newark 9, N. J.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Harshaw Scientific Div. of the Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- KAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
- Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Litton Industries, San Carlos, Calif.
- STEINER-IVES CO., 16 Avenue L, Newark 5, N. J. ADV. PG. 271.
- Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.
- Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- Young Brothers Co., 1829 Columbus Rd., Cleveland, Ohio.

WENS—Infra-Red Drying

- Fostoria Pressed Steel Corp., Fostoria, Ohio.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Miskella Infra-Red Co., The, E. 73rd & Grand Ave., Cleveland 4, Ohio.

PAINTS—Conductive (For Printed Circuit)

- Acheson Colloids Corp., Port Huron, Mich.
- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Bou Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Egyptian Lacquer Mfg. Co., Lafayette, Ind.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 23.
- Laque & Co., Inc., Alfred, 227 34th St., Brooklyn, N. Y.
- Horn Co., Inc., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
- Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
- MICRO-CIRCUITS CO., New Buffalo, Mich. ADV. PG. 222.
- Sauereisen Cements Co., Sauereisen Bldg., Pittsburgh 15, Pa.

PANELS—Instrument

- Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
- Acromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- Aphouser Corp., 104 Brookline Ave., Boston, Mass.
- ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Austin Co., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- FALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Höpp Press, Inc., 460 W. 34th St., New York, N. Y.
- Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
- KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Lamicroid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
- LOJACK PRECISION CORP., 93 Worth St., New York 13, N. Y. ADV. PG. 261.
- Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
- Masonite Corp., 111 W. Washington St., Chicago 2, Ill.
- MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis, Minn.

- MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
- Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
- Pierce Template Corp., 2646 N. Coral St., Philadelphia 25, Pa.
- Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Premier Metal Etching Co., 21-03 44th Ave., Long Island City, N. Y.
- Printloid Inc., 95 Mercer St., New York, N. Y.
- REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
- Stamford Metal Specialty Co., Inc., 429 W. Broadway, New York 12, N. Y.
- Standard Electric Time Co., 89 Logan St., Springfield, Mass.
- Sun Dial Corp., E. Passaic Ave., Caldwell Township, N. J.
- Taylor Fibre Co., Norristown, Pa.
- Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
- Waterbury Companies, Inc., Waterbury 90, Conn.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

PANELS—Receiver & Transmitter

- American Communications Corp., 306 Broadway, New York 7, N. Y.
- ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- Gates Radio Co., Quincy, Ill.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Johnson Co., E. F., Waseca, Minn.
- KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- Langevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y.
- LOJACK PRECISION CORP., 93 Worth St., New York 13, N. Y. ADV. PG. 261.
- Masonite Corp., 111 W. Washington St., Chicago 2, Ill.
- MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- MYCALEX CORP. OF AMERICA, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Pierce Template Corp., 2646 N. Coral St., Philadelphia 25, Pa.
- Printloid Inc., 95 Mercer St., New York, N. Y.
- REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

PANELS—Relay Rack

- ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- Autocall Co., The, Shelby, Ohio.
- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.

- Gates Radio Co., Quincy, Ill.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Johnson Co., E. F., Waseca, Minn.
- KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- Langevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y.
- Lenkurt Electric Co., Inc., San Carlos, Calif.
- LOJACK PRECISION CORP., 93 Worth St., New York 13, N. Y. ADV. PG. 261.
- Masonite Corp., 111 W. Washington St., Chicago 2, Ill.
- Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Northeastern Engineering, Inc., Manchester, N. H.
- PAR-METAL PRODUCTS CORP., 32-62 49th St., Long Island City 3, N. Y. ADV. PG. 242.
- Pierce Template Corp., 2646 N. Coral St., Philadelphia 25, Pa.
- Printloid Inc., 95 Mercer St., New York, N. Y.
- REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

PAPER**See Insulation Materials****PAPER—Facsimiles Recording**

- ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Alfax Paper & Engineering Co., 40 Riverside Ave., Brockton 27 E. B., Mass.
- Correll & Correll, Haworth, N. J.
- Hogan Laboratories, Inc., 155 Perry St., New York 14, N. Y.
- Ozald Division of General Aniline & Film Corp., 770 Anso Rd., Johnson City, N. Y.
- Schweitzer Inc., Peter J., 405 Lexington Ave., New York 17, N. Y.
- TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.
- Western Union Telegraph Co., 60 Hudson St., New York 13, N. Y.

PERMEAMETERS—High H

- Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.

PHENOLIC MOLDING COMPOUNDS**See Insulating Compounds****PHONOGRAPHS—Electric Phonographs & Record Players**

- Admiral Corp., 3800 Cortland St., Chicago 47, Ill.
- Aim Industries, 41 Union Square, New York 3, N. Y.
- Air-King Products Co., Inc., 170 53rd St., Brooklyn, N. Y.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- Audio Industries, Michigan City, Ind.
- Audio-Master Co., 23 W. 45th St., New York 19, N. Y.
- Autocrat Radio Co., 3855 N. Hamilton Ave., Chicago, Ill.
- Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- Bowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md. Broadcasting Program Service, 23 W. 45th St., New York 19, N. Y.
- Califone Corp., 1041 N. Sycamore Ave., Hollywood 38, Calif.
- Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.
- Coronet Radio & Television Corp., 500 W. 52nd St., New York 19, N. Y.
- Crescent Industries, Inc., 4140 Belmont Ave., Chicago 41, Ill.
- Electronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
- Emerson Radio & Phonograph Corp., 111 Eighth Ave., New York, N. Y.
- Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- Fada Radio & Electric Co., Inc., 525 Main St., Belleville, N. J.
- Fairchild Recording Equipment Corp., 154th St. and 7th Ave., Whitestone, N. Y.
- Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
 Lectronic Research Labs., 1021 Callowhill St., Philadelphia 23, Pa.
 M. P. Concert Installations, Fairfield 10, Conn.
 ⓈMagna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
 ⓈMeck Industries, John, Liberty at Pennsylvania, Plymouth, Ind.
 Mirror Record Corp., 1133 Broadway, New York 10, N. Y.
 ⓈNewcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
 ⓈRauland-Borg Corp., 3523 W. Addison St., Chicago 18, Ill.
 ⓈRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 ⓈRek-O-Kut Co., Inc., 38-01 Queens Blvd., Long Island City, N. Y.
 Riggs & Jeffreys, Inc., 140 Glenridge Ave., Montclair, N. J.
 ⓈScott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.
 Seeburg Corp., J. P., 1500 N. Dayton Ave., Chicago 22, Ill.
 ⓈShevers Inc., Harold, 123 W. 64th St. New York 23, N. Y.
 ⓈSimpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
 Symphonic Radio & Electronic Corp., 292-8 Main St., Cambridge 42, Mass.
 Symphony Radio & Television Corp., 721 N. Martel Ave., Los Angeles 46, Calif.
 Teletip Radio Co., 1901 S. Washtenaw, Chicago, Ill.
 ⓈTele-Tone Radio Corp., 540 W. 58th St., New York 19, N. Y.
 ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 Western Sound & Electric Labs., Inc., 805 S. Fifth St., Milwaukee 4, Wis.
 ⓈWilcox-Gay Corp., Charlotte, Michigan.
 Z & W Machine Products Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

PHOTOFLASH EQUIPMENT—Electronic

ⓈAmglo Corp., 4234 Lincoln Ave., Chicago 18, Ill.
 ⓈDormitzer Electric & Mfg. Co., Inc., 89 Brighton Ave., Boston 34, Mass.
 ⓈEastman Kodak Co., Industrial Photographic Sales Div., 343 State St., Rochester 4, N. Y.
 Electronic Products Div., Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y.
 Eltron, Inc., 407 N. Jackson St., Jackson, Mich.
 ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 ⓈHEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
 ⓈINDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
 ⓈJen Products Co., 419 W. 42nd St., New York 18, N. Y.
 ⓈKalbfell Labs., Inc., 1076 Morena Blvd., San Diego 10, Calif.
 ⓈKemlite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
 MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
 ⓈManufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 ⓈPhotocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
 ⓈPhotographic Products, Inc., 955 N. Mansfield Ave., Hollywood 38, Calif.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 ⓈThordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.

PHOTOGRAPHIC MATERIAL—Films and Papers for Recording Instruments

ⓈAnso Div. of General Aniline & Film Corp., Binghamton, N. Y.
 Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
 Ⓢdu Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
 ⓈEastman Kodak Co., Industrial Photographic Sales Div., 343 State St., Rochester 4, N. Y.
 ⓈHaloid Co., The, 6 Haloid St., Rochester, N. Y.
 Miller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.
 ⓈPeerless Photo Products, Shoreham, L. I., N. Y.

PHOTOGRAPHIC MATERIALS—Spectrographic Instruments

ⓈEastman Kodak Co., Industrial Photographic Sales Div., 343 State St., Rochester 4, N. Y.
 ⓈNational Spectrographic Laboratories, Inc., 6300 Euclid Ave., Cleveland 3, Ohio.

PHOTOGRAPHIC MATERIALS—X-Ray Films

ⓈAnso Div. of General Aniline & Film Corp., Binghamton, N. Y.
 ⓈBar-Ray Products, Inc., 209 25th St., Brooklyn 32, N. Y.

Ⓢdu Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
 ⓈEastman Kodak Co., Industrial Photographic Sales Div., 343 State St., Rochester 4, N. Y.
 ⓈGeneral Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
 ⓈNorth American Philips Co., 100 E. 42nd St., New York 17, N. Y.

PHOTOMETERS

ⓈAdair & Rhamstine, 314 Beaubien St., Detroit 26, Mich.
 ⓈAmerican Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
 ⓈBarclay Instruments Div., The Patent Button Co., Waterbury 88, Conn.
 ⓈBrociner-Mass Instruments, Inc., 1546 Second Ave., New York 28, N. Y.
 Davies Laboratories, Inc., 4725 Queensbury Rd., Riverdale, Md.
 ⓈElectronic Workshop, Inc., 351 Bleeker St., New York 14, N. Y.
 ⓈFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
 ⓈGardner Lab., Inc., Henry A., 4723 Elm St., Bethesda 14, Md.
 ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 ⓈLeeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
 ⓈNational Technical Laboratories, 820 Mission St., South Pasadena, Calif.
 ⓈPerkin-Elmer Corp., The, Glenbrook, Conn.
 Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
 ⓈRubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
 ⓈWelch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
 ⓈWESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

PH METERS, RECORDERS AND COMPARATORS

See Meters

PHOTOCOPIERS

See Machines

PHOTOTUBES AND PHOTOCCELLS

See Tubes

PICKUPS—Crystal

See Crystal Cartridges

PICKUPS—Industrial

Applied Science Corp., of Princeton, The, P. O. Box 44, Princeton, N. J.
 ⓈControl Engineering Corp., 863 Washington St., Canton, Mass.
 ⓈFLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
 ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 ⓈHathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.

PICKUPS—Magnetic

ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 ⓈAstatic Corp., The, Conneaut, Ohio.
 ⓈAudak Co., 500 Fifth Ave., New York, N. Y.
 ⓈCaltron Co., 1406 Hobart Blvd., Los Angeles 6, Calif.
 ⓈClarkstan Corp., 11927 S. W. Pico Blvd., Los Angeles 64, Calif.
 ⓈCommercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
 Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Ill.
 ⓈFairchild Recording Equipment Corp., 154th St. and 7th Ave., Whitestone, N. Y.
 ⓈGarrard Sales Corp., 134 Duane St., New York 13, N. Y.
 Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
 ⓈHathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
 M. P. Concert Installations, Fairfield 10, Conn.
 ⓈPICKERING & CO., 309 Woods Ave., Oceanside, L. I., N. Y. ADV. PG. 234.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Radio-Music Corp., Port Chester, N. Y.
 ⓈRowe Industries, 1702 Wayne St., Toledo 9, Ohio.
 ⓈValco Mfg. Co., 4700 W. Walton St., Chicago 51, Ill.
 ⓈWebster Electric Co., 1900 Clark St., Racine, Wis.

PICKUPS—Photoelectric

ⓈAMERICAN CHRONOSCOPE CORP., 316 W. First St., Mt. Vernon, N. Y. ADV. PG. 84.
 ⓈAmerican Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
 ⓈAstatic Corp., The, Conneaut, Ohio.
 ⓈFORD INSTRUMENT CO., INC., 31-10 Thomson Ave., Long Island City, N. Y. ADV. PG. 278.
 ⓈPOTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck N. Y. ADV. PG. 204.
 ⓈStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.

PICKUPS—Quartz Crystal

Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
 ⓈCommercial Research Laboratories, Inc., 20 Bartlett Ave., Detroit 3, Mich.
 ⓈKNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
 ⓈPolytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
 ⓈREEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.

PICKUPS—Transcription and Phonograph

ⓈAltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 ⓈAmerican Microphone Co., 370 So. Fair Oaks Ave., Pasadena 1, Calif.
 ⓈAstatic Corp., The, Conneaut, Ohio.
 ⓈAudak Co., 500 Fifth Ave., New York, N. Y.
 ⓈBRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
 ⓈClarkstan Corp., 11927 S. W. Pico Blvd., Los Angeles 64, Calif.
 ⓈFairchild Recording Equipment Corp., 154th St. and 7th Ave., Whitestone, N. Y.
 ⓈGates Radio Co., Quincy, Ill.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 ⓈGRAY RESEARCH & DEVELOPMENT CO., 16 Arbor St., Hartford 1, Conn. ADV. PG. 239.
 ⓈLear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
 ⓈLivingston Electronic Corp., Livingston, N. J.
 M. P. Concert Installations, Fairfield 10, Conn.
 ⓈProctor Soundex Corp., 133 N. 6th Ave., Mt. Vernon, N. Y.
 ⓈRADIO CORP. OF AMERICA, PCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Radio-Music Corp., Port Chester, N. Y.
 ⓈSonotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y.
 ⓈTetrad Corp., 60 N. Broadway, Yonkers 2, N. Y.

PILOT LIGHT ASSEMBLIES

ⓈAEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. Y. ADV. PG. 138.
 ⓈALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 ⓈDIAL LIGHT CO. OF AMERICA, 900 Broadway, New York 3, N. Y. ADV. PG. 50.
 ⓈFEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 ⓈIndustrial Devices, Inc., 22 State Rd., Edgewater, N. J.
 ⓈJohnson Co., E. F., Waseca, Minn.
 ⓈKulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
 Micarta Fabrications, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
 ⓈMorse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
 ⓈPass & Seymour, Inc., Solvay Station, Syracuse, N. Y.
 ⓈPhilmore Mfg. Co., 113 University Place, New York 3, N. Y.
 ⓈR. B. M. Division, Essex Wire Corp., Logansport, Ind.
 ⓈRUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
 ⓈSmith, Inc., Herman H., 405 44th St., Brooklyn 29, N. Y.
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 ⓈWade Electric Products Co., 211 Jacob St., Sturgis, Mich.

PILOTS—Automatic


ⓈLear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
 ⓈSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

PITCH

See Insulating Compounds

PIVOTS—Instrumental Jewel

Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
 ⓈGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

 indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Miller Mfg. Co., M. A., 1169 E. 43rd St., Chicago 15, Ill.
- Permo, Inc., 6415 Ravenswood Ave., Chicago 26, Ill.
- Vallorbs Jewel Co., Lancaster, Pa.

PLASTIC MATERIALS

Allyls

- Plaskon Division, Libbey-Owens-Ford Glass Co., 2112-24 Sylvan Ave., Toledo 6, Ohio.

Cellulose Acetate

- American Products Mfg. Corp., Oleander & Dublin Sts., New Orleans 18, La.
- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.
- Celanese Corp. of America, 180 Madison Ave., New York 16, N. Y.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Hercules Powder Co., Inc., 900 Market St., Wilmington 99, Del.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Oppenheimer Inc., Alan D., 582-586 Exchange St., Buffalo, N. Y.
- Plax Corp., P. O. Box 1019, Hartford, Conn.
- Polymer Corp., The, Reading, Pa.
- Tennessee Eastman Corp., Subsidiary Eastman Kodak Co., Kingsport, Tenn.

Cellulose Acetate Butyrate

- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Oppenheimer Inc., Alan D., 582-586 Exchange St., Buffalo, N. Y.
- Plax Corp., P. O. Box 1019, Hartford, Conn.
- Polymer Corp., The, Reading, Pa.
- Tennessee Eastman Corp., Subsidiary Eastman Kodak Co., Kingsport, Tenn.

Cellulose Nitrate

- du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
- Hercules Powder Co., Inc., 900 Market St., Wilmington 99, Delaware.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Oppenheimer Inc., Alan D., 582-584 Exchange St., Buffalo, N. Y.

Ethyl Cellulose

- American Products Mfg. Co., Oleander and Dublin Sts., New Orleans 18, La.
- Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.
- Dow Chemical Co., Midland, Mich.
- Hercules Powder Co., Inc., 900 Market St., Wilmington 99, Del.
- Oppenheimer Inc., Alan D., 582-586 Exchange St., Buffalo, N. Y.
- Plax Corp., P. O. Box 1019, Hartford, Conn.
- Polymer Corp., The, Reading, Pa.

Melamine Formaldehyde

- American Cyanamid Co., Plastics Div., 30 Rockefeller Plaza, New York 20, N. Y.
- Baer Co., N. S., 9 Montgomery St., Hillside, N. Y.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
- Panelyte Div., St. Regis Paper Co., 230 Park Ave., New York, N. Y.
- Plaskon Division Libbey-Owens-Ford Glass Co., 2112-24 Sylvan Ave., Toledo 6, Ohio.
- Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
- RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Synthane Corp., Oaks, Pa.
- Taylor Fibre Co., Norristown, Pa.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Methyl Methacrylate

- Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.

- Oppenheimer Inc., Alan D., 582-586 Exchange St., Buffalo, N. Y.
- Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
- Plax Corp., P. O. Box 1019, Hartford, Conn.
- Rohm & Haas, Washington Square, Philadelphia 5, Pa.

Phenol Formaldehyde—(Phenolics)

- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Borden Co., The, Chemical Div., 350 Madison Ave., New York 17, N. Y.
- Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- Durez Plastics & Chemicals, Inc., 1921 Walck Rd., No. Tonawanda, N. Y.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
- Panelyte Div., St. Regis Paper Co., 230 Park Ave., New York, N. Y.
- Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
- Reichhold Chemicals, Inc., 601-707 Woodward Heights Blvd., Detroit 20, Mich.
- RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Rogers Corp., Manchester, Conn.
- Synthane Corp., Oaks, Pa.
- Synvar Corp., 415 E. Front St., Wilmington, Del.
- Taylor Fibre Co., Norristown, Pa.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Polyethylene

- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Howard Mfg. Corp., 1401 S. Main St., Council Bluffs, Iowa.
- Oppenheimer, Inc., Alan D., 582-586 Exchange St., Buffalo, N. Y.
- Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
- Plax Corp., P. O. Box 1019, Hartford, Conn.
- Polymer Corp., The, Reading, Pa.

Polystyrene

- American Products Mfg. Corp., Oleander and Dublin Sts., New Orleans 18, La.
- Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.
- Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Dow Chemical Co., Midland, Mich.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Koppers Co., Inc., Chemical Div., Koppers Bldg., Pittsburgh 19, Pa.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Oppenheimer Inc., Alan D., 582-586 Exchange St., Buffalo, N. Y.
- Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
- Plax Corp., P. O. Box 1019, Hartford, Conn.

Polytetrafluoroethylene

- Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
- du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.

Resins

- Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Borden Co., The, Chemical Div., 350 Madison Ave., New York 17, N. Y.
- Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- Durez Plastics & Chemicals, Inc., 1921 Walck Rd., No. Tonawanda, N. Y.
- GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 and 18.
- Goodrich Chemical Co., B. F., Rose Bldg., Cleveland 15, Ohio.

- Goodyear Tire & Rubber Co., Inc., Chemical Div., 1144 E. Market St., Akron 16, Ohio.
- Halowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Hercules Powder Co., Inc., 900 Market St., Wilmington 99, Del.
- Marbon Corp., Gary, Ind.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Paisley Products Inc., 1770 Canalport Ave., Chicago 16, Ill.
- Plaskon Division, Libbey-Owens-Ford Glass Co., 2112-24 Sylvan Ave., Toledo 6, Ohio.
- Reichhold Chemicals, Inc., 601-707 Woodward Heights Blvd., Detroit 20, Mich.
- Schenectady Varnish Co., Schenectady, N. Y.
- Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
- Synvar Corp., 415 E. Front St., Wilmington, Del.
- ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

Urea Formaldehyde

- American Cyanamid Co., Plastics Div., 30 Rockefeller Plaza, New York 20, N. Y.
- Borden Co., The, Chemical Div., 350 Madison Ave., New York 17, N. Y.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Paisley Products Inc., 1770 Canalport Ave., Chicago 16, Ill.
- Plaskon Division, Libbey-Owens-Ford Glass Co., 2112-24 Sylvan Ave., Toledo 6, Ohio.
- Reichhold Chemicals, Inc., 601-707 Woodward Heights Blvd., Detroit 20, Mich.
- RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.

Vinyl Compounds

- Bakelite Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.
- Borden Co., The, Chemical Div., 350 Madison Ave., New York 17, N. Y.
- Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Dow Chemical Co., Midland, Mich.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Goodrich Chemical Co., B. F., Rose Bldg., Cleveland 15, Ohio.
- Goodyear Tire & Rubber Co., Inc., Chemical Div., 1144 E. Market St., Akron 16, Ohio.
- Marbon Corp., Gary, Indiana.
- Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
- Paisley Products Inc., 1770 Canalport Ave., Chicago 16, Ill.
- Technical Supply Co., Radiocrafters, 1156 Commonwealth Ave., Boston 34, Mass.

PLATES—Instruction

- Acromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
- Emeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.
- Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
- Hopp Press Inc., 460 W. 34th St., New York, N. Y.
- Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
- Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
- MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
- Plastic Fabricators Co., 440 Sansome Street, San Francisco 13, Calif.
- Premier Metal Etching Co., 21-03 44th Ave., Long Island City, N. Y.

PLATES—Name

- Acromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
- American Emblem Co., Inc., P. O. Box 116R, Utica, N. Y.
- Apahouser Corp., 104 Brookline Ave., Boston, Mass.
- Art Roll Leaf Stamping Co., 3610 Palisade Ave., Union City, N. J.
- Austin Co., Inc., O., 335 Throop Ave., Brooklyn 21, N. Y.
- Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Brady Co., W. H., Dept. 33, 815 N. Third St., Milwaukee 3, Wis.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.
 Emeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.
 Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.
 GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
 Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
 Grammes & Sons Inc., L. F., 389 Union St., Allentown 2, Pa.
 Hopp Press Inc., 460 W. 34th St., New York, N. Y.
 Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
 Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
 INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 Lamicoid Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
 MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
 Panelyte Div., St. Regis Paper Co., 230 Park Ave., New York, N. Y.
 Parisian Novelty Co., 3510 S. Western Ave., Chicago 9, Ill.
 Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.
 Plastic Fabricators Co., 440 Sansome Street, San Francisco 11, Calif.
 Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
 Premier Metal Etching Co., 21-03 44th Ave., Long Island City, N. Y.
 Printloid Inc., 95 Mercer St., New York, N. Y.
 Reinsner Mfg. Co., Hagerstown, Md.
 Sillocks-Miller Co., 10 Parker Ave., W., So. Orange, N. J.
 Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
 U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
 U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.
 Waterbury Companies, Inc., Waterbury 90, Conn.

PLATING—Metal on Plastic

- Austin Co., O., Inc., 335 Throop Ave., Brooklyn 21, N. Y.
 Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
 Waterbury Companies, Inc., Waterbury 90, Conn.

PLATING—Precision Metal

- COHAN-EPNER CO., INC., 142 W. 14th St., New York 11, N. Y. ADV. PG. 254.
 ELECTRO-TEC CORP., 53 Bergen Turnpike, Little Ferry, N. J. ADV. PG. 198.
 Keystone Chromium Corp., Buffalo, N. Y.
 Neptune-Power Plus Products Co., Detroit, Mich.
 Swartz & Co., Chicago, Ill.

PLUGS—Terminal

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
 CINCH MFG. CO., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
 Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Eastern Specialty Co., Philadelphia 40, Pa.
 Elco Mfg. Co. Div. of Electro-Connector Corp, 110 W. Oxford St., Phila. 22, Pa.
 Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
 GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 HERMETIC SEAL PRODUCTS CO., 29-37 S. 6th St., Newark 7, N. J. ADV. PG. 87.
 INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 Johnson Co., E. F., Waseca, Minn.
 Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
 MALCO TOOL & MFG. CO., 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
 Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 National Screw & Mfg. Co., Cleveland 4, Ohio.
 RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Standard Electric Time Co., 89 Logan St., Springfield, Mass.
 States Co., 19 New Park Ave., Hartford 6, Conn.

PLUGS AND JACKS

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 Audio Development Co., 2833 13th Ave., Minneapolis 7, Minn.
 Audio Equipment Sales, 153 W. 33rd St., New York 1, N. Y.
 AVIOMETER DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
 Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
 Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
 Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
 Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
 CINCH MFG. CO., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
 Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
 Eby, Inc., Hugh H., 4700 Stenton Ave., Phila. 44, Pa.
 Elco Mfg. Co., Div. of Electro-Connector Corp, 110 W. Oxford St., Philadelphia 22, Pa.
 GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
 Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 Johnson Co., E. F., Waseca, Minn.
 JONES DIV., HOWARD B., Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
 Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
 Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
 Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Molded Insulation Co., Aircraft Products Div., 335 E. Price St., Philadelphia, Pa.
 Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
 Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
 Plastimold Corp., Attleboro, Mass.
 Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
 Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
 Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Standard Electric Time Co., 89 Logan St., Springfield, Mass.
 Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 States Co., 19 New Park Ave., Hartford 6, Conn.
 SWITCHCRAFT, INC., 1328-30 N. Halsted St., Chicago 22, Ill. ADV. PG. 162.
 Telephonics Corp., Park Ave., Huntington, N. Y.
 Ucinite Co. Div. of United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.
 WINCHESTER ELECTRONICS, INC., Glenbrook, Conn. ADV. PG. 203.

POINTERS—Dial

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 Baldwin Locomotive Works, Philadelphia 42, Pa.
 Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
 Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Emeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.
 Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.
 Gemloid Corp., 79-10 Albion Ave., Elmhurst, N. Y.
 GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
 Grammes & Sons, Inc., L. F., 389 Union St., Allentown 2, Pa.
 J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 Parisian Novelty Co., 3510 South Western Ave., Chicago 9, Ill.
 PATENT BUTTON CO. OF TENNESSEE, 2005 Century St., Knoxville, Tenn. ADV. PG. 270.

- Plastimold Corp., Attleboro, Mass.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Ucinite Co. Div. of United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
 Uniform Tubes, Shurs Lane & Larivston St., Roxborough, Philadelphia, Pa.
 U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.
 Vallorbs Jewel Co., Lancaster, Pa.

Polonium

- Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.
 U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

POSTS—Binding

- AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
 Berkshire Laboratories, P. O. Box 70, Concord, Mass.
 BROWN ELECTRO-MEASUREMENT CORP., 4637 SE. Hawthorne Blvd., Portland 15, Oregon. ADV. PG. 276.
 CAMBRIDGE THERMIONIC CORP., 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
 CINCH MFG. CO., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
 Citation Products Co., 233 E. 146th St., New York 51, N. Y.
 Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Eastern Specialty Co., Philadelphia 40, Pa.
 Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
 FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
 Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
 GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Insulation Mfg. Co., 11 New York Ave., Brooklyn, N. Y.
 INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
 MALCO TOOL & MFG. CO., 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
 NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
 Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 States Co., 19 New Park Ave., Hartford 6, Conn.
 Stronghold Screw Products Inc., 216-222 W. Hubbard St., Chicago 10, Ill.
 SUPERIOR ELECTRIC CO., THE 83 Meadow St., Bristol, Conn. ADV. PG. 110, 111.
 WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

POTENTIOMETERS

- Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
 Amalgamated Electronics, Electronics Road, Clinton Corners, N. Y.
 BROWN ELECTRO-MEASUREMENT CORP., 4637 SE. Hawthorne Blvd., Portland 15, Oregon. ADV. PG. 276.
 CENTRALAB, DIV. GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
 CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
 Daven Co., 191 Central Ave., Newark 4, N. J.
 DEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
 Gamewell Co., The, Upper Newton Falls 64, Mass.
 GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 49, 49.
 Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
 HELIPOT CORP., 916 Meridian Ave., South Pasadena, Calif. ADV. PG. 101.
 INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
 Mallory & Co., Inc., P. R. 3029 E. Washington St., Indianapolis 6, Ind.
 MUIRHEAD & CO., INC., Beckenham-Kent-England. ADV. PG. 71.
 North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 OHMITE MFG CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
 Precision Electronic Components, Reg'd., P. O. Box 264, Granby, Quebec, Canada.
 Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
 Smucker & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
 SOUND APPARATUS CO., Stirling, N. J. ADV. PG. 243.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- **STACKPOLE CARBON CO.**, St. Marys, Pa. ADV. PG. 66, 167.
- **Tech Laboratories, Inc.**, Bergen & Edsall Bldvs., Palisades Park, N. J.
- **Technology Instrument Corp.**, 1058 Main St., Waltham 54, Mass.
- **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

POTENTIOMETERS—Linear & Non Linear Precision Wire Wound

- **Amalgamated Electronics**, Electronics Road, Clinton Corners, N. Y.
- **BROWN ELECTRO-MEASUREMENT CORP.**, 4637 S. E. Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
- **CENTRALAB, DIV. GLOBE UNION INC.**, 900 E. Keefer Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- **CINEMA ENGINEERING CO.**, 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- **CLAROSTAT MFG. CO., INC.**, Dover, N. H. ADV. PG. 227.
- **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- **Daven Co.**, 191 Central Ave., Newark 4, N. J.
- **DE-JUR-AMSCO CORP.**, Northern Blvd., at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- **Electronic Associates, Inc.**, Long Branch, N. J.
- **Fairchild Camera & Instrument Corp.**, 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
- **Ford Engineering Co.**, 2738 Colorado Blvd., Los Angeles 41, Calif.
- **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **GENERAL RADIO CO.**, 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- **GIBBS DIVISION, GEORGE W. BORG CORP.**, Delavan, Wis. ADV. PG. 198, 199.
- **HELIPOT CORP.**, 916 Meridian Ave., S. Pasadena Calif. ADV. PG. 101.
- **INTERNATIONAL RESISTANCE CO.**, 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- **Jarvis Electronics Corp.**, 6058 W. Fullerton Ave., Chicago 39, Ill.
- **Muter Co.**, 1255 S. Michigan Ave., Chicago, Ill.
- **RAWSON ELECTRICAL INSTRUMENT CO.**, 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- **Reeves Instrument Corp.**, 215 E. 91st St., New York, N. Y.
- **Tech Laboratories, Inc.**, Bergen & Edsall Bldvs., Palisades Park, N. J.
- **Technology Instrument Corp.**, 1058 Main St., Waltham 54, Mass.

POTENTIOMETERS—Portable Instrument

- **Associated Research, Inc.**, 3758 W. Belmont, Chicago 18, Ill.
- **BROWN ELECTRO-MEASUREMENT CORP.**, 4637 SE Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
- **CENTRALAB, DIV. GLOBE UNION INC.**, 900 E. Keefer Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- **CLAROSTAT MFG. CO., INC.**, Dover, N. H. ADV. PG. 227.
- **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- **Fisher Scientific Co.**, 717 Forbes St., Pittsburgh 19, Pa.
- **Foxboro Co.**, The Foxboro, Mass.
- **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **Geophysical Instrument Co.**, 1820 N. Nash St., Arlington, Va.
- **Leeds & Northrup Co.**, 4970 Stenton Ave., Philadelphia 44, Pa.
- **Rubicon Co.**, 3751 Ridge Ave., Philadelphia, Pa.
- **Sensitive Research Instrument Corp.**, 9 Elm Ave., Mt. Vernon, N. Y.
- **Tech Laboratories, Inc.**, Bergen & Edsall Bldvs., Palisades Park, N. J.
- **Welch Scientific Co.**, W. M., 1515 Sedgwick St., Chicago 10, Ill.
- **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- **Wheelco Instruments Corp.**, 847 W. Harrison St., Chicago 7, Ill.

POTS—Soldering

- **Acme Electric Heating Co.**, 1217 Washington St., Boston, Mass.
- **ELECTRIC SOLDERING IRON CO.**, W. Elm St., Deep River, Conn. ADV. PG. 106.
- **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **KAHLE ENGINEERING CO.**, 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
- **Kellogg Switchboard & Supply Co.**, 6650 S. Cicero Ave., Chicago 38, Ill.
- **Stolle Engineering & Mfg. Co.**, 3970 S. Grand Ave., Los Angeles 27, Calif.
- **Tech Laboratories, Inc.**, Bergen and Edsall Bldvs., Palisades Park, N. J.
- **Waage Electric Inc.**, 54 Park Place, New York 7, N. Y.
- **WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

POTS AND TANKS—Heating

- **Acme Electric Heating Co.**, 1217 Washington St., Boston, Mass.
- **Aeroil Products Co., Inc.**, Wesley St., South Hackensack, N. J.
- **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **Lukens Steel Co. and Divisions, By-Products Steel Co. & Lukenweld**, 447 Lukens Bldg., Coatesville, Pa.
- **Sta-Warm Electric Co.**, Ravenna, Ohio.
- **Waage Electric Inc.**, 54 Park Pl., New York 7, N. Y.

POWDERS—Magnetic

- **Arnold Engineering Co.**, 147 E. Ontario St., Chicago 11, Ill.
- **Carroll Mfg. Co.**, 415 S. Aberdeen St., Chicago 7, Ill.
- **MODEL Metals Division, The National Radiator Co.**, 169 Bridge St., Johnstown, Pa.
- **Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W.C. 2, England.
- **WILLIAMS & CO., C. K.**, 2001 Lynch Ave., East St. Louis, Mo. ADV. PG. 148.

POWDERS—Polishing

- **Linick Chemical Co.**, 29 E. Madison St., Chicago 2, Ill.
- **Norton Co.**, 1 New Bond St., Worcester 6, Mass.
- **Ryerson & Son, Inc., J. T.**, Box 8000-A, Chicago, Ill.
- **WILLIAMS & CO., C. K.**, 2001 Lynch Ave., East St. Louis, Mo. ADV. PG. 148.

POWER SUPPLIES

- **Air Associates, Inc.**, Teterboro, N. J.
- **AIRPAX PRODUCTS CO.**, 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275.
- **Altec Lansing Corp.**, 161 Avenue of the Americas, New York 13, N. Y.
- **American Electroneering Co.**, 2112 S. La Brea Ave., Los Angeles, Calif.
- **AMERICAN TELEVISION & RADIO CO.**, 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- **ATOMIC INSTRUMENT CO.**, 160 Charles St., Boston, Mass. ADV. PG. 218.
- **Audio Equipment Sales**, 153 W. 33rd St., New York 1, N. Y.
- **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- **BETA ELECTRIC CORP.**, 1762 3rd Ave., New York 29, N. Y. ADV. PG. 171.
- **Booth Co.**, Arthur E., 4124 Beverly Blvd., Los Angeles 4, Calif.
- **Bunnell & Co., J. H.**, 81 Prospect St., Brooklyn, N. Y.
- **Carnine & Bitter**, 2332 Ontario Rd., N. W., Washington 9, D. C.
- **Collins Audio Products Co.**, P. O. Box 368, Westfield, N. J.
- **Collins Radio Co.**, Cedar Rapids, Iowa.
- **Communication Measurements Lab.**, 120 Greenwich St., New York, N. Y.
- **CORNELL-DUBILIER ELECTRIC CORP.**, South Plainfield, N. J. ADV. PG. 70.
- **Electricoil Transformer Co.**, Westery Rd., Ossining, N. Y.
- **Electro Products Labs, Inc.**, 549 W. Randolph St., Chicago 6, Ill.
- **Electronic Engineering Corp.**, 624 Ridge Rd., Lyndhurst, N. J.
- **EL-TRONICS, INC.**, 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- **Electronic Controls Co. of New York**, 3124 Avenue I, Brooklyn 10, N. Y.
- **ESPY ELECTRONIC CORP., DAWKINS**, 11747 W. Pico Blvd., Los Angeles 34, Calif. ADV. PG. 105.
- **Fairchild Recording Equipment Corp.**, 154th St. and 7th Ave., Whitestone, N. Y.
- **Fansteel Metallurgical Corp.**, 2200 Sheridan Rd., Chicago, Ill.
- **FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- **Furst Electronics**, 10A S. Jefferson St., Chicago 6, Ill.
- **Garys Radio Co.**, Quincy, Ill.
- **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **GENERAL ELECTRIC CO.**, Electronics Dept., Electronics Park, Sylvania, N. Y. ADV. PG. 5 to 18.
- **GENERAL RADIO CO.**, 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- **HARVEY RADIO LABS., INC.**, 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- **Hasstons Instrument Co.**, Box 1275, Hampton, Va.
- **HEATH CO.**, Benton Harbor, Mich. ADV. PG. 279.
- **HIGHLAND ENGINEERING CO.**, 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- **Huonins Laboratories**, 734 Hamilton Ave., Menlo Park, Calif.
- **INDUCTOGRAPH PRODUCTS**, 236 W. 55th St., New York, N. Y. ADV. PG. 234.
- **James Vibrapow Co.**, 3224 Armitage Ave., Chicago 47, Ill.
- **K-V Transformer Corp.**, 4414 Park Ave., New York 54, N. Y.

- **Kaar Engineering Co.**, 2995 Middlefield Rd., Palo Alto, Calif.
- **KEPCO LABS., INC.**, 149-14 41st Ave., Flushing, N. Y. ADV. PG. 150.
- **Langevin Mfg. Corp.**, 37 W. 65th St., New York 23, N. Y.
- **Leotron Research Labs.**, 1021 Callowhill St., Philadelphia 23, Pa.
- **Lenkurt Electric Co., Inc.**, San Carlos, Calif.
- **Lynmar Engineers, Inc.**, 1721 Delancey St., Philadelphia 3, Pa.
- **McColpin-Christie Corp.**, 4922 S. Figueroa St., Los Angeles 37, Calif.
- **Magnetic Instrument Co.**, 82 W. Main St., West Orange, N. J.
- **Millen Mig. Co.**, James, 150 Exchange St., Malden, Mass.
- **Minnesota Electronics Corp.**, The, 97 E. Fifth St., St. Paul 1, Minn.
- **MODEL RECTIFIER CORP.**, 1510 Nostrand Ave., Brooklyn 26, N. Y. ADV. PG. 273.
- **NATIONAL CO., INC.**, 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- **Newcomb Audio Products Co.**, 6824 Lexington Ave., Hollywood 38, Calif.
- **Nucleonic Corp. of America**, The, 497 Union St., Brooklyn 31, N. Y.
- **OPAD-GREEN CO.**, 71 Warren St., New York 7, N. Y. ADV. PG. 274.
- **OREGON ELECTRONIC MFG. CO.**, 206 S. W. Washington St., Portland 4, Ore. ADV. PG. 205.
- **Osborne Transformer Corp.**, 948 E. Lafayette Ave., Detroit 7, Mich.
- **Polarad Electronics Corp.**, 100 Metropolitan Ave., Brooklyn 11, N. Y.
- **POLYTECHNICAL RESEARCH & DEVELOPMENT CO., INC.**, 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- **Power Equipment Co.**, 55 Antoinette St., Detroit 2, Mich.
- **Press Wireless Mfg. Co., Inc.**, Cantiague Rd., Hicksville, L. I., N. Y.
- **Radiart Corp.**, The, 3571 W. 62nd St., Cleveland 2, Ohio.
- **RAYTHEON MFG. CO.**, Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- **Schauer Mfg. Corp.**, 2119 Reading Rd., Cincinnati 2, Ohio.
- **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- **Smuckler & Co., Inc.**, A. F., 202 Tillary St., Brooklyn 1, N. Y.
- **SORENSEN & CO., INC.**, 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
- **SPERRY GYROSCOPE CO.**, Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- **STANDARD TRANSFORMER CORP.**, Elston, Kedzie and Addison, Chicago 18, Ill. ADV. PG. 62.
- **Stephens Mfg. Corp.**, 8538 Warner Drive, Culver City, Calif.
- **Telemark Electronics Corp.**, 150 Broadway, New York, N. Y.
- **Telequip Radio Co.**, 1901 S. Washtenaw, Chicago, Ill.
- **Ther Electric & Machine Works**, 15 S. Jefferson St., Chicago, Ill.
- **Thordarson Electric Mfg. Div., Maguire Industries, Inc.**, 500 W. Huron St., Chicago 10, Ill.
- **Varo Mfg. Co., Inc.**, Box 638, Garland, Tex.
- **Wilcox Electric Co.**, 1400 Chestnut St., Kansas City, Mo.

POWER SUPPLIES—High Voltage

- **Altec Lansing Corp.**, 161 Avenue of the Americas, New York 13, N. Y.
- **American Electroneering Co.**, 2112 S. La Brea Ave., Los Angeles, Calif.
- **AMERICAN TELEVISION & RADIO CO.**, 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- **ATOMIC INSTRUMENT CO.**, 160 Charles St., Boston, Mass. ADV. PG. 218.
- **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- **BETA ELECTRIC CORP.**, 1762 3rd Ave., New York 29, N. Y. ADV. PG. 171.
- **Carnine & Bitter**, 2332 Ontario Rd., NW, Washington 9, D. C.
- **Cascade Television Co.**, 179 South St., Newark, N. J.
- **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- **Collins Radio Co.**, Cedar Rapids, Iowa.
- **CONDENSER PRODUCTS CO.**, 1375 N. Branch St., Chicago 22, Ill. ADV. PG. 213.
- **Cossor (Canada) Ltd.**, 301-303 Windsor St., Halifax, N. S., Canada.
- **Electricoil Transformer Co.**, Westery Rd., Ossining, N. Y.
- **Electronic Brazing Co.**, 146 Glenridge Ave., Montclair, N. J.
- **Electronic Engineering Corp.**, 624 Ridge Rd., Lyndhurst, N. J.
- **ELECTRONIC MEASUREMENTS CO.**, Red Bank, N. J. ADV. PG. 139.
- **Eitron, Inc.**, 407 N. Jackson St., Jackson, Mich.
- **EL-TRONICS, INC.**, 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- **Embassy Engineering Corp.**, 224 E. 204th St., New York 58, N. Y.

V indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

- Ⓟ **ESPY ELECTRONIC CORP., DAWKINS**, 11747 W. Pico Blvd., Los Angeles 34, Calif. ADV. PG. 105.
- Ⓞ **Essex Electronics**, Berkeley Heights, N. J.
- Ⓞ **FEDERAL TELEPHONE & RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓞ **FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓞ **Fiuke Engineering Co.**, John, Box 755, Springdale, Conn.
- Ⓞ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓞ **Furst Electronics**, 10A S. Jefferson St., Chicago 6, Ill.
- Ⓞ **Gates Radio Co.**, Quincy, Ill.
- Ⓞ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ **GENERAL ELECTRIC CO.**, Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ **HARVEY RADIO LABS., Inc.**, 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Ⓞ **Inductograph Laboratory**, Box 76, Brookfield, Conn.
- Ⓞ **INDUCTOGRAPH PRODUCTS**, 236 W. 55th St., New York, N. Y. ADV. PG. 234.
- Ⓞ **K-V Transformer Corp.**, 4414 Park Ave., New York 57, N. Y.
- Ⓞ **KEPCO LABS., INC.**, 149-14 41st Ave., Flushing, N. Y. ADV. PG. 150.
- Ⓞ **Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Ⓞ **MODEL RECTIFIER CORP.**, 1510 Nostrand Ave., Brooklyn, N. Y. ADV. PG. 273.
- Ⓞ **Moullic Specialties Co.**, 1005-1007 W. Washington St., Bloomington, Ill.
- Ⓞ **Nucleonic Corp. of America**, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓞ **Polarad Electronics Corp.**, 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓞ **POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC.**, 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓞ **Press Wireless Mfg. Co., Inc.**, Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓞ **Radioactive Products, Inc.**, 3201 E. Woodbridge St., Detroit 7, Mich.
- Ⓞ **RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ **SPELLMAN TELEVISION CO., INC.**, 3029 Webster Ave., New York 11, N. Y. ADV. PG. 164.
- Ⓞ **SPERRY GYROSCOPE CO.**, Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓞ **Telemark Electronics Corp.**, 150 Broadway, New York, N. Y.
- Ⓞ **Teletronics Laboratory, Inc.**, 352 Maple Ave., Westbury, L. I., N. Y.
- Ⓞ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓞ **Varian Associates**, 99 Washington St., San Carlos, Calif.

POWER SUPPLIES—Regulated

- Ⓞ **Altec Lansing Corp.**, 161 Avenue of the Americas, New York 13, N. Y.
- Ⓞ **American British Technology Inc.**, 57 Park Ave., New York 16, N. Y.
- Ⓞ **American Electroengineering Co.**, 2112 S. La Brea Ave., Los Angeles, Calif.
- Ⓞ **AMERICAN TELEVISION & RADIO CO.**, 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- Ⓞ **Amplifier Corp. of America**, 396 Broadway, New York 13, N. Y.
- Ⓞ **ATOMIC INSTRUMENT CO.**, 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓞ **Audio Equipment Sales**, 153 W. 33rd St., New York 1, N. Y.
- Ⓞ **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ **BETA ELECTRIC CORP.**, 1762 3rd Ave., New York 29, N. Y. ADV. PG. 171.
- Ⓞ **BROWNING LABORATORIES, INC.**, 750 Main St., Winchester, Mass. ADV. PG. 30.
- Ⓞ **C.G.S. LABORATORIES, INC.**, 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓞ **Carnine & Bitter**, 2332 Ontario Rd., NW, Washington 9, D. C.
- Ⓞ **Cascade Television Co.**, 179 South St., Newark, N. J.
- Ⓞ **CHATHAM ELECTRONICS CORP.**, 475 Washington St., Newark 2, N. J. ADV. PG. 126.
- Ⓞ **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓞ **Communication Measurements Lab., Inc.**, 120 Greenwich St., New York, N. Y.
- Ⓞ **CORNELL-DUBILIER ELECTRIC CORP.**, South Plainfield, N. J. ADV. PG. 70.
- Ⓞ **Cossor (Canada) Ltd.**, 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓞ **Douglas Radio Labs.**, 40 Wayland St., Boston 25, Mass.
- Ⓞ **Electron Equipment Corp.**, 917 Meridian Ave., South Pasadena, Calif.
- Ⓞ **Electronic Engineering Corp.**, 624 Ridge Rd., Lyndhurst, N. J.
- Ⓞ **ELECTRONIC MEASUREMENTS CO.**, Red Bank, N. J. ADV. PG. 139.
- Ⓞ **EL-TRONICS, INC.**, 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓞ **ESPY ELECTRONIC CORP., DAWKINS**, 11747 W. Pico Blvd., Los Angeles 34, Calif. ADV. PG. 105.

- Ⓞ **Fansteel Metallurgical Corp.**, 2200 Sheridan Rd., Chicago, Ill.
- Ⓞ **FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓞ **FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓞ **Fiuke Engineering Co.**, John, Box 755, Springdale, Conn.
- Ⓞ **Furst Electronics**, 10A S. Jefferson St., Chicago 6, Ill.
- Ⓞ **Gates Radio Co.**, Quincy, Ill.
- Ⓞ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ **GENERAL ELECTRIC CO.**, Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ **HARVEY RADIO LABS., INC.**, 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Ⓞ **Hastings Instrument Co.**, Box 1275, Hampton, Va.
- Ⓞ **Howard Co.**, The, 934 Drexel Rd., Drexel Hill, Pa.
- Ⓞ **INDUCTOGRAPH PRODUCTS**, 236 W. 55th St., New York, N. Y. ADV. PG. 234.
- Ⓞ **INDUSTRIAL ELECTRONICS, INC.**, 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Ⓞ **KEPCO LABS., INC.**, 149-14 41st Ave., Flushing, N. Y. ADV. PG. 150.
- Ⓞ **LAMBDA ELECTRONIC CORP.**, 103-02 Northern Blvd., Corona, N. Y. ADV. PG. 268.
- Ⓞ **MacLeod & Hanopol**, 10 Joiner St., Charlestown 29, Mass.
- Ⓞ **Magnetic Instrument Co.**, 82 W. Main St., West Orange, N. J.
- Ⓞ **Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Ⓞ **Miller Corp.**, Wm., 362 W. Colorado St., Pasadena, Calif.
- Ⓞ **Moullic Specialties Co.**, 1005-1007 W. Washington St., Bloomington, Ill.
- Ⓞ **Nucleonic Corp. of America**, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓞ **OREGON ELECTRONIC MFG. CO.**, 206 S. W. Washington St., Portland 4, Ore. ADV. PG. 205.
- Ⓞ **Philbrick Associates, Inc.**, George A., 230 Congress St., Boston 10, Mass.
- Ⓞ **Polarad Electronics Corp.**, 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓞ **POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC.**, 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓞ **Power Equipment Co.**, 55 Antoinette St., Detroit 2, Mich.
- Ⓞ **Press Wireless Mfg. Co., Inc.**, Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓞ **Process & Instruments**, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓞ **Radioactive Products, Inc.**, 3201 E. Woodbridge St., Detroit 7, Mich.
- Ⓞ **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ **RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ **Richardson Allen Corp.**, 15 W. 20th St., New York 11, N. Y.
- Ⓞ **Servomechanisms, Inc.**, 142 Mineola Blvd., Mineola, N. Y.
- Ⓞ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ **Smuckler & Co., Inc.**, A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓞ **SORENSEN & CO., INC.**, 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
- Ⓞ **SPELLMAN TELEVISION CO., INC.**, 3029 Webster Ave., New York 11, N. Y. ADV. PG. 164.
- Ⓞ **SPENCER-KENNEDY LABS., INC.**, 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- Ⓞ **SPERRY GYROSCOPE CO.**, Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓞ **Stancill-Hoffman Corp.**, 1016 N. Highland Ave., Hollywood 38, Calif.
- Ⓞ **SUPERIOR ELECTRIC CO.**, 83 Meadow St., Bristol, Conn. ADV. PG. 110, 111.
- Ⓞ **Telemark Electronics Corp.**, 150 Broadway, New York, N. Y.
- Ⓞ **Teletronics Laboratory, Inc.**, 352 Maple Ave., Westbury, L. I., N. Y.
- Ⓞ **Ther Electric & Machine Works**, 15 S. Jefferson St., Chicago, Ill.
- Ⓞ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓞ **Varian Associates**, 99 Washington St., San Carlos, Calif.
- Ⓞ **Varo Mfg. Co., Inc.**, Box 638, Garland, Texas.

PRE-AMPLIFIERS FOR COMMUNICATION RECEIVERS

- Ⓞ **American Communications Corp.**, 306 Broadway, New York 7, N. Y.
- Ⓞ **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ **Decimeter, Inc.**, 1430 Market St., Denver 2, Colorado.
- Ⓞ **Gates Radio Co.**, Quincy, Ill.
- Ⓞ **Gonset Co.**, 72 E. Tujunga Ave., Burbank, Calif.
- Ⓞ **Kaar Engineering Co.**, 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓞ **Lynmar Engineers, Inc.**, 1721 Delancey St., Philadelphia 3, Pa.

- Ⓞ **Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Ⓞ **NORTHERN RADIO CO., INC.**, 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- Ⓞ **Radio Mfg. Engineers Inc.**, 300-302 First Ave., Peoria 6, Ill.
- Ⓞ **RAYTHEON MFG. CO.**, Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ **Z & W Machine Products Inc.**, Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

PRE-SELECTORS

- Ⓞ **Air Associates, Inc.**, Teterboro, N. J.
- Ⓞ **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ **Gonset Co.**, 72 E. Tujunga Ave., Burbank, Calif.
- Ⓞ **Maryland Electronic Mfg. Corp.**, 5009 Calvert Rd., College Park, Md.
- Ⓞ **Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Ⓞ **Polarad Electronics Corp.**, 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓞ **Radio Mfg. Engineers Inc.**, 300-302 First Ave., Peoria 6, Ill.
- Ⓞ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.

PRESSES—Hydraulic Molding

- Ⓞ **Hydraulic Press Mfg. Co.**, Mt. Gilead, Ohio.
- Ⓞ **Poinsettia Co., Inc.**, 95 Cedar Ave., Pitman, N. J.
- Ⓞ **Short Wave Plastic Forming Co.**, 2921 W. Alameda St., Burbank, Calif.
- Ⓞ **Stokes Machine Co.**, F. J., 5850 Tabor Rd., Olney P. O., Philadelphia 20, Pa.

PRINTED OR STAMPED CIRCUITS

See Circuits

PROBES

- Ⓞ **AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓞ **Commercial Radio Sound Corp.**, 575 Lexington Ave., New York 22, N. Y.
- Ⓞ **ELECTRONIC DESIGNS, INC.**, Irvington, N. Y. ADV. PG. 199.
- Ⓞ **GENERAL RADIO CO.**, 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓞ **HEATH CO.**, Benton Harbor, Mich. ADV. PG. 279.
- Ⓞ **INSULINE CORP. OF AMERICA**, 30-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓞ **Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- Ⓞ **MILLIVAC INSTRUMENTS**, Box 3027, New Haven, Conn. ADV. PG. 182.
- Ⓞ **Nuclear Instrument & Chemical Corp.**, 223 W. Erie St., Chicago 10, Ill.
- Ⓞ **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ **RADIO FREQUENCY LABS., INC.**, Boonton 2, N. J. ADV. PG. 172.
- Ⓞ **Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓞ **SPENCER-KENNEDY LABS., INC.**, 186 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 256.
- Ⓞ **SYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ **United Technical Labs.**, Box 425-W, Morristown, N. J.
- Ⓞ **WATERMAN PRODUCTS CO., INC.**, 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.

PRODUCTION TUBE TESTING EQUIPMENT

- Ⓞ **BUCK ENGINEERING CO., INC.**, 37-41 Marcy St., Freehold, N. J. ADV. PG. 194.
- Ⓞ **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓞ **Electronic Engineering Corp.**, 624 Ridge Rd., Lyndhurst, N. J.
- Ⓞ **MacLeod & Hanopol**, 10 Joiner St., Charlestown 29, Mass.
- Ⓞ **PANORAMIC RADIO PRODUCTS, INC.**, 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓞ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ **Sierra Electronic Corp.**, San Carlos, Calif.

PROJECTION TUBES

See Tubes, Television Projection

PROTECTIVE SEALERS

See Insulating Compounds

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

PSYCHO GALVANOMETERS

- ① Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- ① Electro-Medical Lab., Inc., Holliston, Mass.

PUBLIC ADDRESS SYSTEMS

See Sound Systems, Complete

PULLERS—Radio Tube

- ① GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ① Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.

PULLEYS—Dial

- ① AMERICAN MOLDED PRODUCTS CO., 1644 N. Honore St., Chicago 22, Ill. ADV. PG. 263.
- ① Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- ① FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- ① GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ① Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.

PUNCHES—Metal

- ① Eyelet Tool Co., 188 Dorchester Ave., Boston, Mass.
- ① Greene Mfg. Corp., G. G., Warren, Pa.
- ① Industrial Precision Products Co., 315-325 N. Hoyne Ave., Chicago 12, Ill.
- ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ① Oneill-Irwin Mfg. Co., 316 8th Ave., Lake City, Minn.
- ① Wiedemann Machine Co., 4272 Wissahickon Ave., Philadelphia 32, Pa.

PUSHBUTTONS

- ① Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- ① Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.
- ① Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
- ① Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- ① Emeloid Co., Inc., The, 1239 Central Ave., Hillside 5, Ill. J.
- ① Federal Electric Products Co., 50 Paris St., Newark, N. J.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① Reisher Mfg. Co., Hagerstown, Md.
- ① RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

PYROMETERS AND POTENTIOMETER PYROMETERS

- ① Assembly Products, Inc., Chagrin Falls 6, Ohio.
- ① Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- ① Beede Electrical Instrument Co., Inc., Penacook, N. H.
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ① Foxboro Co., The, Foxboro, Mass.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① Harshaw Scientific Div. of The Harshaw Chemical Co., 1915 E. 97th St., Cleveland 6, Ohio.
- ① Illinois Testing Labs. Inc., 420 N. La Salle St., Chicago 10, Ill.
- ① J B T INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ① Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- ① Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- ① Meiers, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- ① Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne and Roberts Aves., Philadelphia 44, Pa.
- ① Nurnberg Thermometer Co., Inc., 4 Corey St., Boston 32, Mass.
- ① Richards Co., Inc., Arklay S., 78 Winchester St., Newton Highlands 61, Mass.
- ① Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- ① Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.

- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ① Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

QUARTZ—Raw

- ① Breon Laboratories, 1520 Evergreen Rd., Williamsport, Pa.
- ① Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ① Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- ① Diamond Drill Carbon Co., 53-63 Park Row, New York 7, N. Y.
- ① KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ① Monitor Products Co., 915 Fremont Ave., So. Pasadena, Calif.

QUARTZ—Unfinished Crystals

- ① BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- ① Breon Laboratories, 1520 Evergreen Rd., Williamsport, Pa.
- ① CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ① Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ① Eidson Electronic Co., 1802 N. Third St., Temple, Texas.
- ① KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- ① Miller, August E., 9226 Hudson Blvd., North Bergen, N. J.
- ① Monitor Products Co., 915 Fremont Ave., So. Pasadena, Calif.
- ① Nebel Lab., R. E., 1104 Lincoln Pl., Brooklyn 13, N. Y.
- ① Piezo Products Co., Whitney St., Framingham, Mass.
- ① Polytech Devices, Inc., 1180 1/2 E. Grand St., Elizabeth, N. J.
- ① Premier Crystal Labs., Inc., 79-89 Seventh Ave., New York 11, N. Y.
- ① REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ① Scientific Radio Products Co., 738 W. Broadway, Council Bluffs, Iowa.
- ① Valpey Crystals, Highland St., Holliston, Mass.
- ① Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

RACKS—Relay

- ① ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- ① Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ① ART-LLOYD METAL PRODUCTS CORP., 2973 Croysey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- ① Autocall Co., The, Shelby, Ohio.
- ① Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- ① Bud Radio Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- ① CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- ① Collins Radio Co., Cedar Rapids, Iowa.
- ① Cutler Metal Products Co., Camden, N. J.
- ① Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.
- ① FALSTROM CO., 44 Falstrom Court, Passaic, N. J. ADV. PG. 162.
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ① INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ① Johnson Co., E. F., Waseca, Minn.
- ① KARP METAL PRODUCTS CO., INC., 215 63rd St., Brooklyn 20, N. Y. ADV. PG. 53.
- ① Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
- ① Lenkurt Electric Co., Inc., San Carlos, Calif.
- ① Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ① MULTI METAL WIRE CLOTH CO., INC., 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- ① NATIONAL CO. INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ① Northeastern Engineering, Inc., Manchester, N. H.
- ① PAR-METAL PRODUCTS CORP., 32-62 49th St., Long Island City 3, N. Y. ADV. PG. 242.
- ① Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- ① REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① Walter Co., Inc., S., 1400 Atlantic Ave., Brooklyn 16, N. Y.

RADAR NAVIGATIONAL DEVICES

- ① Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- ① American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- ① Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- ① Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ① Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ① Collins Radio Co., Cedar Rapids, Iowa.
- ① Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- ① FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① Giffilan Bros., Inc., 1815 Venice Blvd., Los Angeles 6, Calif.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ① Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- ① RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ① Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RADAR SYSTEMS AND EQUIPMENT—Aircraft Landing

- ① Air Associates, Inc., Teterboro, N. J.
- ① Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, N. Y.
- ① American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- ① Automatic Signal Division, 100 Regent St., East Norwalk, Conn.
- ① Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ① Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ① Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① Giffilan Bros., Inc., 1815 Venice Blvd., Los Angeles 6, Calif.
- ① Kennedy & Co., D. S., Cohasset, Mass.
- ① Microwave Equipment Co., Inc., North Caldwell, N. J.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

RADAR SYSTEMS AND EQUIPMENT—Altimeters

- ① American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

RADAR SYSTEMS AND EQUIPMENT—Receivers

- ① Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, N. Y.
- ① Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ① Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ① Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ① Giffilan Bros., Inc., 1815 Venice Blvd., Los Angeles 6, Calif.
- ① Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ① Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- ① Racon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ① RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ① RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ① Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ① SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Telemark, Inc., 100 Greyrock Pl., Stamford, Conn.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.

RADAR SYSTEMS AND EQUIPMENT—Trainers

- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Electronic Associates, Inc., Long Branch, N. J.
- Gilfillan Bros., Inc., 1815 Venice Blvd., Los Angeles 6, Calif.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

RADAR SYSTEMS AND EQUIPMENT—Transmitters

- Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, N. Y.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Gilfillan Bros., Inc., 1815 Venice Blvd., Los Angeles 6, Calif.
- Microwave Equipment Co., Inc., North Caldwell, N. J.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RADIO ISOTOPES

See *Isotopes, Radioactive*

RADIOSONDES—Electrical Measurement Type

- Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Northeastern Engineering, Inc., Manchester, N. H.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.

RADIUM

- Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.
- St. John X-Ray Laboratory, Califon, N. J.
- U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

RATIOMETERS

- EDISON, INC., THOMAS A., INSTRUMENT DIV., W. Orange, N. J. ADV. PG. 129.
- Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

REACTORS

See *Chokes and Coils, Choke*

REACTORS—Saturable

- Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
- Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- COMMUNICATION ACCESSORIES CO., Box 345, 110th St., & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
- Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich.
- Electron Mfg. Co., 4596 Elston Ave., Chicago, Ill.
- Electro Engineering Works, 6021 College Ave., Oakland 18, Calif.
- FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
- K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
- Osborne Transformer Corp., 948 E. Lafayette Ave., Detroit 7, Mich.
- S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.
- SORENSON & CO., INC., 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
- Ther Electric & Machine Works, 15 S. Jefferson St., Chicago, Ill.

RECEIVERS—Aircraft

- Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- Air Associates, Inc., Teterboro, N. J.
- AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- Belmont Radio Corp., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Collins Radio Co., Cedar Rapids, Iowa.
- Communications Co. Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S. (Canada).
- Eckstein Radio & Television Co., LeRoy, Minn.
- Electronic Specialty Co., 3456 Glendale Blvd., Los Angeles 39, Calif.
- Eltron, Inc., 407 N. Jackson St., Jackson, Mich.
- Erco Radio Labs, Inc., E. Stewart Ave., Garden City, N. Y.
- Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
- Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Telemark, Inc., 100 Greyrock Pl., Stamford, Conn.

RECEIVERS—a-m Fixed Frequency

- American Communications Corp., 306 Broadway, New York 7, N. Y.
- American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bassett, Inc., Rex, 307-11 N.W., 1st Ave., Fort Lauderdale, Fla.
- Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Breloco Electronics Corp., 55 Vandam St., New York 13, N. Y.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
- Collins Radio Co., Cedar Rapids, Iowa.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.

- Coronet Radio & Television Corp., 500 W. 52nd St., New York 19, N. Y.
- Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Erco Radio Labs, Inc., E. Stewart Ave., Garden City, N. Y.
- Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Gates Radio Co., Quincy, Ill.
- Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Hammerlund Mfg. Co., 460 W. 34th St., New York 6, N. Y.
- Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- Hastings Instrument Co., Box 1275, Hampton, Va.
- Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Kinsey Radio Mfg. Co., 5807 Oak St., Omaha 7, Nebraska.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Link Radio Corp., 125 W. 17th St., New York, N. Y.
- NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Northeastern Engineering, Inc., Manchester, N. H.
- Northern Radio Co., 314 Bell St., Seattle 1, Wash.
- Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

RECEIVERS—a-m/f-m Communication

- Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- American Communications Corp., 306 Broadway, New York 7, N. Y.
- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bassett, Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Collins Radio Co., Cedar Rapids, Iowa.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- Fisher Radio Corp., 41 E. 47th St., New York, N. Y.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Hastings Instrument Co., Box 1275, Hampton, Va.
- Kinsey Radio Mfg. Co., 5807 Oak St., Omaha 7, Nebr.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Radio Mfg. Engineers, Inc., 300-302 First Ave., Peoria 6, Ill.
- Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Schuttig & Co., Inc., 9th & Kearney Sts., N.E., Washington 17, D. C.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

RECEIVERS—Automatic Radio Alarm

- Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

RECEIVERS—Automobile

- Bassett, Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Delco Radio Div., General Motors Corp., Kokomo, Ind.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Eckstein Radio & Television Co., LeRoy, Minn.
- Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ SYLVANIA ELECTRIC PRODUCTS, INC., Radio & Television Div., 254 Rano St., Buffalo 7, N. Y. ADV. PG. 286 to 290.
- Ⓜ Walls-Gardner & Co., 2701 N. Kildare Ave., Chicago 39, Ill.

RECEIVERS—Coin Operated

- Ⓜ American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Coronet Radio & Television Corp., 500 W. 52nd St., New York 19, N. Y.
- Ⓜ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓜ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓜ Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
- Ⓜ Mattison Television & Radio Corp., 893 Broadway, New York 3, N. Y.
- Ⓜ National Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
- Ⓜ Northeastern Engineering, Inc., Manchester, N. H.

RECEIVERS—Communication and Amateur

- Ⓜ Bassett Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ Eckstein Radio & Television Co., LeRoy, Minn.
- Ⓜ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓜ Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- Ⓜ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Hallcrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Ⓜ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- Ⓜ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓜ Kinsey Radio Mfg. Co., 5807 Oak St., Omaha 7, Nebr.
- Ⓜ Lear Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Ⓜ McMurdo Silver Co., 1240 Main St., Hartford 3, Conn.
- Ⓜ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓜ Radio Mfg. Engineers, Inc., 300-302 First Ave., Peoria 6, Ill.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.
- Ⓜ West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.
- Ⓜ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

RECEIVERS—Crystal Sets

- Ⓜ Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- Ⓜ Laurehk Radio Mfg. Co., 3931 Monroe Ave., Wayne, Mich.
- Ⓜ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓜ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Ⓜ Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- Ⓜ Taylors Equipment Co., Inc., 120 Greenwich St., New York 6, N. Y.
- Ⓜ Telequip Radio Co., 1901 S. Washtenaw, Chicago, Ill.

RECEIVERS—Diversity Reception

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Erco Radio Labs., Inc., E. Stewart Ave., Garden City, N. Y.
- Ⓜ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓜ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓜ Schuttig & Co., Inc., 9th & Kearney Sts., N.E., Washington 17, D. C.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.

RECEIVERS—Fixed Frequency

- Ⓜ Air Associates, Inc., Teterboro, N. J.
- Ⓜ American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Bassett, Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓜ Breico Electronics Corp., 55 Vandam St., New York 13, N. Y.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Carnine & Bitter, 2332 Ontario Rd., NW, Washington 9, D. C.
- Ⓜ Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Ⓜ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓜ EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓜ Erco Radio Labs., Inc., E. Stewart Ave., Garden City, N. Y.
- Ⓜ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓜ Hallcrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Ⓜ Hastings Instrument Co., Box 1275, Hampton, Va.
- Ⓜ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓜ Kalbfell Labs., Inc., 1076 Morena Blvd., San Diego 10, Calif.
- Ⓜ Kinsey Radio Mfg. Co., 5807 Oak St., Omaha 7, Nebraska.
- Ⓜ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓜ Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md.
- Ⓜ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓜ Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓜ Northeastern Engineering, Inc., Manchester, N. H.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓜ Radio Specialty Mfg. Co., 2023 S. E. 6th Ave., Portland 14, Ore.
- Ⓜ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.
- Ⓜ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓜ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

RECEIVERS—f-m

- Ⓜ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Ⓜ Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Ⓜ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ Espey Mfg. Co., Inc., 528 E. 72nd St., New York 19, N. Y.
- Ⓜ Fada Radio & Electric Co., Inc., 575 Main St., Belleville, N. J.
- Ⓜ Fisher Radio Corp., 41 E. 47th St., New York, N. Y.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Hallcrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Ⓜ HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Ⓜ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓜ Kalbfell Labs., Inc., 1076 Morena Blvd., San Diego 10, Calif.
- Ⓜ Kinsey Radio Mfg. Co., 5807 Oak St., Omaha 7, Nebraska.
- Ⓜ Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md.
- Ⓜ Mattison Television & Radio Corp., 893 Broadway, New York 3, N. Y.
- Ⓜ Meissner Mfg. Div., Maguire Industries Inc., Mt. Carmel, Ill.
- Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.

- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Schuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C.
- Ⓜ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Standard Telephones & Cables Co., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ SYLVANIA ELECTRIC PRODUCTS, INC., Radio & Television Div., 254 Rano St., Buffalo 7, N. Y. ADV. PG. 286 to 290.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RECEIVERS—Loran

- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

RECEIVERS—Marine

- Ⓜ Applied Electronics Co., 1246 Folsom St., San Francisco 3, Calif.
- Ⓜ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ Erco Radio Labs., Inc., E. Stewart Ave., Garden City, N. Y.
- Ⓜ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Harvey-Wells Electronics Inc., North St., Southbridge, Mass.
- Ⓜ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓜ Jefferson, Inc., Ray, 40 E. Merrick Rd., Freeport L. I., N. Y.
- Ⓜ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓜ Northern Radio Co., 314 Bell St., Seattle 1, Wash.
- Ⓜ Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa., ADV. PG. 32.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RECEIVERS—Microwave

- Ⓜ Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.
- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓜ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ SPERRY GYROSCOPE CO. Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

RECEIVERS—Panoramic

- Ⓜ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Ⓜ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓜ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

RECEIVERS—Portable & Mobile

- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bassett Inc., Rex., 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Doolittle Radio Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- EL-TRONICS, INC., 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Rosen Engineering Products, Inc., Raymond, 32nd & Walnut Sts., Philadelphia 4, Pa.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

RECEIVERS—Radio Direction Finder

- Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- Applied Electronics Co., 1246 Folsom St., San Francisco 3, Calif.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.
- FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Grady Instrument Co., 689 Belmont St., Belmont 78, Mass.
- Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
- Jefferson, Inc., Ray, 40 E. Merrick Rd., Freeport, L. I., N. Y.
- Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- Northern Radio Co., 314 Bell St., Seattle 1, Wash.
- Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.
- RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.

RECEIVERS—Railroad

- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 39, Pa. ADV. PG. 77.

RECEIVERS—uhf

- Air Associates, Inc., Teterboro, N. J.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn N. Y.
- Carnine & Bitter, 2332 Ontario Rd., N.W., Washington 9, D. C.
- Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- EL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.

- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md.
- McMurdo Silver Co., 1240 Main St., Hartford 48, Mass. ADV. PG. 33 to 36.
- NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- SPERRY GYROSCOPE CO. Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Telemark, Inc., 100 Greyrock Pl., Stamford, Conn.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

RECEIVERS—vht

- Air Associates, Inc., Teterboro, N. J.
- Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Collins Radio Co., Cedar Rapids, Iowa.
- Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Link Radio Corp., 125 W. 17th St., New York, N. Y.
- McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md.
- Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- National Electronics Labs., Inc., 1713 Kalorama Rd., N. W., Washington 9, D. C.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Radio Mfg. Engineers, Inc., 300-302 First Ave., Peoria 6, Ill.
- RADIO RECEPTOR CO., 251 W. 19th St., New York, N. Y. ADV. PG. 188.
- RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Schuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C.
- Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Telemark, Inc., 100 Greyrock Pl., Stamford, Conn.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

RECEIVERS, HOME

1. a-m phono, Console
2. a-m phono, Table
3. a-m Console
4. a-m Portable
5. a-m Table
6. a-m Vest Pocket
7. a-m/f-m phono, Console
8. a-m/f-m phono, Table
9. a-m/f-m Console
10. a-m/f-m Portable
11. a-m/f-m Table
12. f-m Console
13. f-m Portable
14. f-m Table
15. t-v Console
16. t-v Portable
17. t-v Table
18. f-m/t-v Console
19. f-m/t-v Table
20. a-m/f-m/t-v Console
21. am-/f-m/t-v Table
22. a-m/f-m/t-v phono, Console
23. Recorder and Phonograph combination
24. Built-in wall type

- Admiral Corp., 3800 Cortland St., Chicago 47, Ill. 1-2-4-5-7-15-17-20-22.
- Air-King Products Co., Inc., 170-53rd St., Brooklyn, N. Y. 1-2-3-4-5-6-7-8-11-15-17-18-19-20-21-22-23.
- Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. 15-17-24.
- American Communications Corp., 306 Broadway, New York 7, N. Y. 5-24.
- Andrea Radio Corp., 27-01 Bridge Plaza North, Long Island City 1, N. Y. 4-18-19-20-21-22.
- Anstley Radio & Television Inc., 41 St. Joes Ave., Trenton 9, N. J. 7-15-17-20-22.
- Audio Industries, Michigan City, Ind. 23.
- Autocrat Radio Co., 3855 N. Hamilton Ave., Chicago, Ill. 5.
- Automatic Radio Mfg. Co., Inc., 122 Brookline Ave., Boston, Mass. 2-3-4-5-6-8-9-14-23.
- Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill. 4-5-6-7-11-15-16-17-22.
- Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. 1-5-7-11-15-17-20-22.
- Bowers Battery & Spark Plug Co., Reading, Pa. 14-17.
- Calbest Engineering & Electronics Co., 828 N. Highland Ave., Hollywood 38, Calif. 2-5-17-18-19-22.
- Capehart-Farnsworth Corp., Fort Worth, Indiana. 7-15-17-20-22.
- Cascade Television Co., 179 South St., Newark, N. J. 15-17.
- Collins Audio Products Co., P. O. Box 368, Westfield, N. J. 24.
- Commercial Equipment Co., Inc., Box 168, Lawrence, Kansas. 6.
- Coronet Radio & Television Corp., 500 W. 52nd St., New York 19, N. Y. 2-4-5.
- Coscor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada. 1-3-5-15-17.
- Crosley Div., Avco Mfg. Corp., Cincinnati 25, Ohio. 1-2-3-4-5-11-15-16-17-22-24.
- DeWald Radio Mfg. Corp., 35-15 37th Ave., Long Island City, N. Y. 2-4-5-7-11-15-17.
- DuMont Laboratories, Inc., Allen B., Television Receiver Div., Market St., East Paterson, N. J. 15-17-18-19-20-22-24.
- Eckstein Radio & Television Co., LeRoy, Minn. 5.
- Emerson Radio & Phonograph Corp., 111 8th Ave., New York, N. Y. 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-21-22.
- Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y. 1-2-3-4-5-7-8-9-10-24.
- Fada Radio & Electric Co., Inc., 525 Main St., Belleville, N. J. 3-4-7-8-9-11-14-15-17-20-22.
- Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y. 23.
- Federal Television Corp., 137-9-41 Duane St., New York 13, N. Y. 15-17-18-19-22.
- Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill. 16.
- Fisher Radio Corp., 41 E. 47th St., New York, N. Y. 7-15-18-20-22.
- Flush Wall Radio Co., 9 W. Park St., Newark 2, N. J. 24.
- Freed Radio Corp., 200 Hudson St., New York, N. Y. 7-11-12-15-20-22.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. 1-2-3-4-5-7-8-9-10-11-12-13-14-15-17-20-21-22-23. ADV. PG. 5 to 18.
- Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England. 2-5.
- HEATH CO., Benton Harbor, Mich. 5. ADV. PG. 279.
- Hi-Par Products Co., Fitchburg, Mass. 15.
- Hoffman Radio Corp., 3716 S. Hill St., Los Angeles 7, Calif. 5-7-15-17-21-22.
- International Television Corp., 238 William St., New York 7, N. Y. 15-17-18-19-20-21-22.
- Jackson Industries, Inc., 58 E. Cullerton St., Chicago 16, Ill. 1-7-15-17-22.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y. 15-16-17-20-21-22.
- Kaye-Halbert Corp., 3555 Hayden Ave., Culver City, Calif. 15-17.
- Laurrek Radio Mfg. Co., 3931 Monroe Ave., Wayne, Michigan. 6.
- M. P. Concert Installations, Fairfield 10, Conn. 7-15-17-20-23.
- Magnavox Co., The Components Div., Fort Wayne 4, Indiana. 1-7-17-22.
- Mattison Television & Radio Corp., 893 Broadway New York 3, N. Y. 4-5-8-15-16-17.
- Meck Industries, John, Liberty at Pennsylvania, Plymouth, Ind. 4-5-15-17-22.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill. 4-7-17-23.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia Pa. 5-23.
- NATIONAL COMPANY, INC., 61 Sherman St., Malden 48, Mass. 15-17. ADV. PG. 33 to 36.
- National Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y. 4-5-7-11-15-17-20-21-22.
- Nielsen Television Corp., Newton Rd., Norwalk, Conn. 15-17.
- Noblitt Sparks Industries, Columbus, Indiana. 1-4-5-7-11-15-17-22.
- Olympic Radio & Television, Inc., 34-01 38th Ave., Long Island City, N. Y. 4-5-7-15-17-20-22.
- Orthon Corp., The Electronic Div., 196 Albion Ave., Paterson 2, N. J. 1-2-3-5-24.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓞ Pentron Corp., The, 611 W. Division St., Chicago 10, Ill. 23.
- Ⓞ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. 1-2-3-4-5-7-8-9-10-11-15-17-20-21-22.
- Ⓞ Philmore Mfg. Co., 113 University Place, New York 3, N. Y. 15-17-18-19.
- Ⓞ Pilot Radio Corp., 37-06 36th St., Long Island City, N. Y. 15-16-17-18-19-20-21-22.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. 1-2-4-5-7-11-14-17-20-22. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. 1-3-4-7-9-11-14-15-16-17-18-20-21-22. ADV. PG. 257.
- Ⓞ Remington Radio Corp., 80 Main St., White Plains, N. Y. 18-19.
- Ⓞ S. M. A. CO., 4721 N. Kedzie, Chicago, Ill. 15-17-18-19-22. ADV. PG. 277.
- Ⓞ Scott Radio Labs, Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill. 7-9-15-17-20-22.
- Ⓞ Sentinel Radio Corp., 2100 Dempster St., Evanston, Ill. 4-5-6-7-8-9-11-15-16-17-20-21-22.
- Ⓞ Shevers Inc., Harold, 123 W. 64th St., New York 23, N. Y. 1-2-7-15.
- Ⓞ Sightmaster Corp., 20 E. 35th St., New York 16, N. Y. 15-17-18-19-24.
- Ⓞ Simpson Mfg. Co., Inc., Mark, 32-38 49th St., Long Island City 3, N. Y. 23.
- Ⓞ Sovereign Television Co., 5508 New Utrecht Ave., Brooklyn 19, N. Y. 15-17.
- Ⓞ Sparton Radio-Television Div., The Sparks-Withington Co., Jackson, Mich. 4-5-11-15-17-22.
- Ⓞ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y. 23.
- Ⓞ Stewart-Warner Electric Div., Stewart-Warner Corp., 1326 Diversey Pkwy., Chicago 14, Ill. 4-5-7-11-15-17-20-22.
- Ⓞ Solle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 27, Calif. 5-15-17.
- Ⓞ Stromberg-Carlson Co., Rochester 3, N. Y. 15-17-22.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Radio & Television Div., 254 Rano St., Buffalo 7, N. Y. 2-3-4-5-6-7-8-9-11-15-17-18-20-22. ADV. PG. 286 to 290.
- Ⓞ Symphony Radio & Television Corp., 721 N. Martel Ave., Los Angeles 46, Calif. 1-2-4-5-15-17-18-19-20-21-22-23.
- Ⓞ Title King Corp., 601 W. 26th St., New York 1, N. Y. 22-23.
- Ⓞ Title-Tone Radio Co., 540 W. 58th St., New York 19, N. Y. 4-5-15-16-17.
- Ⓞ Transvision, Inc., 460 North Ave., New Rochelle, N. Y. 15-17-18-19-20-21-22.
- Ⓞ Trav-Ler Radio Corp., 571 W. Jackson Blvd., Chicago, Ill. 2-4-5-15.
- Ⓞ U. S. Television Mfg. Corp., 3 W. 61st St., New York 23, N. Y. 15-17-18-19-20-22.
- Ⓞ Video Corp. of America, 229 W. 28th St., New York 1, N. Y. 15-17-18-19-20-21-22.
- Ⓞ Wells-Gardner & Co., 2701 N. Kildare Ave., Chicago 34, Ill. 1-2-3-4-5-7-8-9-11-15-17-22.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. 2-3-4-5-7-8-9-10-11-15-17. ADV. PG. 77.
- Ⓞ Wilcox-Gay Corp., Charlotte, Mich. 7-15-17-18-19-24-22-23.
- Ⓞ Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Ill. 2-9-11-14-15-17-22.

RECORDERS—Blood Pressure

- Ⓞ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓞ Edin Electronics Co., 207 Main St., Worcester, Mass.
- Ⓞ Gorrell & Gorrell, Haworth, N. J.
- Ⓞ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓞ RAHM INSTRUMENTS INC., 12 West Broadway, New York 7, N. Y. ADV. PG. 178.
- Ⓞ OSANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Ⓞ Technitrol Engineering Co., 3212 Market St., Philadelphia, Pa.

RECORDERS—Density

See Recorders, Specific Gravity

RECORDERS—Dielectric Constant

- Ⓞ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓞ Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

RECORDERS—Electronic Office Recorders & Pflaybacks

- Ⓞ Air-King Products Co., Inc., 170 53rd St., Brooklyn, N. Y.
- Ⓞ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓞ Crescent Industries, Inc., 4140 Belmont Ave., Chicago 41, Ill.
- Ⓞ Dictaphone Corp., 420 Lexington Ave., New York 17, N. Y.

- Ⓞ EDISON INC., THOMAS A., 51 Lakeside Ave., West Orange, N. J. ADV. PG. 129.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ Gray Mfg. Co., The, 16 Arbor St., Hartford, Conn.
- Ⓞ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓞ Lekas Mfg. Co., Ann Arbor, Mich.
- Ⓞ MILES REPRODUCER CO., INC., 812 Broadway, New York 3, N. Y. ADV. PG. 275.
- Ⓞ Pentron Corp., The, 611 W. Division St., Chicago 10, Ill.
- Ⓞ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓞ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- Ⓞ Teletronics Corp., 8479 Higuera St., Culver City, Calif.
- Ⓞ Wireway Corp. of America, 1331 Halsey St., Brooklyn 27, N. Y.

RECORDERS—Electronic Rotary Stylus

- Ⓞ Fielden Electronics Inc., 1171 New York Ave., Huntinton Station, N. Y.
- Ⓞ MILES REPRODUCER CO., INC., 812 Broadway, New York 3, N. Y. ADV. PG. 275.

RECORDERS—Electronic Self-Balancing

Recorders and Indicators

- Ⓞ Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- Ⓞ Antenna Research Lab., Inc., 797 Thomas Lane, Columbus 9, Ohio.
- Ⓞ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓞ Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.
- Ⓞ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓞ Foxboro Co., The, Foxboro Mass.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓞ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓞ Schevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- Ⓞ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.

RECORDERS—Facsimile

- Ⓞ Acme Teletronix Div. of NEA Service Inc., West Third & Lakeside, Cleveland 13, Ohio.
- Ⓞ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓞ Rummel & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
- Ⓞ Fairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
- Ⓞ Hoan Laboratories, Inc., 155 Perry St., New York 14, N. Y.
- Ⓞ MEL-ov Mfg. Corp., Littleton, Mass.
- Ⓞ MURHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- Ⓞ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓞ TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.

RECORDERS—Film

- Ⓞ Acme Teletronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- Ⓞ Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓞ Berndt-Bach, Inc., 7377 Beverly Blvd., Los Angeles 36, Calif.
- Ⓞ Electrodine Company, 32 Oliver St., Boston, Mass.
- Ⓞ Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- Ⓞ Hart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.
- Ⓞ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓞ HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
- Ⓞ Maurer Inc., J. A., 37-01 31st St., Long Island City, N. Y.
- Ⓞ MILES REPRODUCER CO., INC., 812 Broadway, New York 3, N. Y. ADV. PG. 275.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ Stencil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RECORDERS—Film Thickness

- Ⓞ Tracerlab, Inc., 130 High St., Boston 10, Mass.

RECORDERS—Fluid Conductivity

- Ⓞ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓞ Foxboro Co., The, Foxboro, Mass.
- Ⓞ Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓞ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓞ Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

RECORDERS—Fluid Flow

- Ⓞ Autocall Co., The, Shelby, Ohio.
- Ⓞ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓞ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ Fischer & Porter Co., Hattboro, Pa.
- Ⓞ Foxboro Co., The, Foxboro, Mass.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ Leupold & Stevens Instruments, Inc., 4445 N.E. Glisan St., Portland 13, Ore.
- Ⓞ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

RECORDERS—Frequency

- Ⓞ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓞ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓞ SOUND APPARATUS CO., Stirling, N. J. ADV. PG. 243.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RECORDERS—Humidity

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Ⓞ Bristol Co., The, Waterbury 20, Conn.
- Ⓞ Fielden Electronics Inc., 1171 New York Ave., Huntinton Station, N. Y.
- Ⓞ Foxboro Co., The, Foxboro, Mass.
- Ⓞ Friez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ Manning, Maxwell & Moore, Inc., Stratford Conn.
- Ⓞ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓞ Serdex Inc., 91 Cambridge St., Boston, Mass.

RECORDERS—Liquid Level

- Ⓞ Autocall Co., The, Shelby, Ohio.
- Ⓞ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓞ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓞ Bristol Co., The, Waterbury 20, Conn.
- Ⓞ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓞ Fischer & Porter Co., Hattboro, Pa.
- Ⓞ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓞ Foxboro Co., The, Foxboro, Mass.
- Ⓞ Friez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓞ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia, 44, Pa.
- Ⓞ Leupold & Stevens Instruments, Inc., 4445 N. E. Glisan St., Portland 13, Ore.
- Ⓞ Manning, Maxwell & Moore, Inc., Stratford Conn.
- Ⓞ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓞ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson, N. J. ADV. PG. 187.

RECORDERS—Magnetic Tape

- Ⓞ Amrex Electric Corp., 1155 Howard Ave., San Carlos, Calif.
- Ⓞ Amolifier Corp. of America, 396 Broadway, New York 13, N. Y.
- Ⓞ Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓞ Audiograph Co., 1414 El Camino Real, San Carlos, Calif.
- Ⓞ Audio-Master Co., 23 W. 45th St., New York 19, N. Y.
- Ⓞ Bell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio.
- Ⓞ Berlant Associates, 4917 W. Jefferson Blvd., Los Angeles 16, Calif.
- Ⓞ Broadcasting Program Service, 23 W. 45th St., New York 19, N. Y.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- **CINEMA ENGINEERING CO.**, 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- **Elcor, Inc.**, 1501 W. Congress St., Chicago 7, Ill.
- **Fairchild Recording Equipment Corp.**, 154th St. & 7th Ave., Whitestone, N. Y.
- **Feiler Engineering Co.**, 1601 S. Federal St., Chicago 10, Ill.
- **Gates Radio Co.**, Quincy, Ill.
- **General Communication Co.**, 530 Commonwealth Ave., Boston 15, Mass.
- **General Industries Co.**, Taylor & Olive Sts., Elyria, Ohio.
- **Lekas Mfg. Co.**, Ann Arbor, Mich.
- **MAGNECORD, INC.**, 360 N. Michigan Ave., Chicago 1, Ill. ADV. PG. 187.
- **Magnetic Records Co.**, 7120 Melrose St., Los Angeles, Calif.
- **Maurer, Inc., J. A.**, 37-01 31st St., Long Island City, N. Y.
- **Molded Insulation Co.**, Aircraft Control Div., 335 E. Price St., Phila., Pa.
- **Operadio Mfg. Co.**, 135th & Indiana Sts., St. Charles, Ill.
- **Pentron Corp.**, The, 611 W. Division St., Chicago 10, Ill.
- **Permoflux Corp.**, 4900 W. Grand Ave., Chicago 39, Ill.
- **Press Wireless Mfg. Co., Inc.**, Cantiague Rd., Hicksville, L. I., N. Y.
- **PRESTO RECORDING CORP.**, Paramus, N. J. ADV. PG. 94, 95.
- **Process & Instruments**, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- **Proctor Soundex Corp.**, 133 N. 6th Ave., Mt. Vernon, N. Y.
- **RADIO CORP. OF AMERICA**, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- **Simpson Mfg. Co., Inc.**, Mark, 32-28 49th St., Long Island City 3, N. Y.
- **Speak-O-Phone Recording & Equipment Co.**, 23 W. 60th St., New York, N. Y.
- **Stancil-Hoffman Corp.**, 1016 N. Highland Ave., Hollywood 38, Calif.
- **Webster Electric Co.**, 1900 Clark St., Racine, Wis.
- **Wilcox-Gay Corp.**, Charlotte, Michigan.
- **Wireway Corp. of America**, 1331 Halsey St., Brooklyn 27, N. Y.

RECORDERS—Materials Thickness

- **Electric Eye Equipment Co.**, 16 W. Fairchild St., Danville, Ill.
- **Foxboro Co.**, The, Foxboro, Mass.
- **Schaevitz Engineering**, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.
- **Tracerlab, Inc.**, 130 High St., Boston 10, Mass.

RECORDERS—Mechanical

- **Annis Co.**, R. B., 1101 N. Delaware St., Indianapolis, Ind.
- **Autocall Co.**, The, Shelby, Ohio.
- **Automatic Temperature Control Co., Inc.**, 5212 Pulaski Ave., Philadelphia 44, Pa.
- **Bristol Co.**, The, Waterbury 20, Conn.
- **Bunnell & Co., J. H.**, 81 Prospect St., Brooklyn, N. Y.
- **Cyclotron Specialties Co.**, Moraga 8, Calif.
- **FLADER, INC., FREDERIC**, North Tonawanda, N. Y. ADV. PG. 240.
- **Gorrell & Gorrell**, Haworth, N. J.
- **Streeter-Amet Corp.**, 4101 N. Ravenswood Ave., Chicago 13, Ill.
- **West Coast Electronics Co.**, 1601 S. Burlington St., Los Angeles 6, Calif.

RECORDERS—Moisture

- **Fielden Electronics Inc.**, 1171 New York Ave., Huntington Station, N. Y.
- **Foxboro Co.**, The, Foxboro, Mass.
- **Marconi Instruments, Ltd.**, 23 Beaver St., New York 4, N. Y.
- **Minneapolis-Honeywell Regulator Co.**, Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

RECORDERS—Nuclear Radiation

- **Anton Electronic Laboratories, Inc.**, 1226-1238 Flushington Ave., Brooklyn 6, N. Y.
- **Applied Physics Corp.**, 30 W. Green St., Pasadena 1, Calif.
- **ATOMIC INSTRUMENT CO.**, 160 Charles St., Boston, Mass. ADV. PG. 218.
- **Cossor (Canada) Ltd.**, 301-303 Windsor St., Halifax, N. S., Canada.
- **Cyclotron Specialties Co.**, Moraga 8, Calif.
- **Electronic Products Co.**, 111 E. 3rd St., Mt. Vernon, N. Y.
- **EL-TRONICS, INC.**, 2649 N. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- **Geophysical Instrument Co.**, 1820 N. Nash St., Arlington, Va.
- **North American Phillips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- **Nuclear Instrument & Chemical Corp.**, 223 W. Erie St., Chicago 10, Ill.

- **Nucleonic Corp., of America**, The, 497 Union St., Brooklyn 31, N. Y.
- **POTTER INSTRUMENT CO., INC.**, 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- **Radioactive Products, Inc.**, 3201 E. Woodbridge St., Detroit 7, Mich.
- **Special Instruments Laboratory, Inc.**, 1003 Highland Ave., Knoxville, Tenn.
- **Tracerlab, Inc.**, 130 High St., Boston 10, Mass.

RECORDERS—Oxygen

- **Bailey Meter Co.**, 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- **Leeds & Northrup Co.**, 4970 Stenton Ave., Philadelphia 44, Pa.
- **Minneapolis-Honeywell Regulator Co.**, 2753 Fourth Ave., S., Minneapolis, Minn.

RECORDERS—pH

- **Bailey Meter Co.**, 1044 Ivanhoe Road, Cleveland 10, Ohio.
- **Bristol Co., The**, Waterbury 20, Conn.
- **Fisher Research Lab.**, 1961 University Ave., Palo Alto, Calif.
- **Foxboro Co.**, The, Foxboro, Mass.
- **Leeds & Northrup Co.**, 4970 Stenton Ave., Philadelphia 44, Pa.
- **Marconi Instruments, Ltd.**, 23 Beaver St., New York 4, N. Y.
- **Minneapolis-Honeywell Regulator Co.**, Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

RECORDERS—Potentiometer

- **Bailey Meter Co.**, 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- **Bristol Co., The**, Waterbury 20, Conn.
- **Electronic Associates, Inc.**, Long Branch, N. J.
- **Foxboro Co.**, The, Foxboro, Mass.
- **Leeds & Northrup Co.**, 4970 Stenton Ave., Philadelphia 44, Pa.
- **Minneapolis-Honeywell Regulator Co.**, Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- **North American Phillips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- **SOUND APPARATUS CO.**, Stirling, N. J. ADV. PG. 243.
- **Thwing-Albert Instrument Co.**, 5351 Pulaski Ave., Philadelphia 44, Pa.

RECORDERS—Power Level

- **Automatic Temperature Control Co., Inc.**, 5212 Pulaski Ave., Philadelphia 44, Pa.
- **SOUND APPARATUS CO.**, Stirling, N. J., ADV. PG. 243.

RECORDERS—Pressure

- **Autocall Co.**, The, Shelby, Ohio.
- **Automatic Temperature Control Co., Inc.**, 5212 Pulaski Ave., Philadelphia 44, Pa.
- **Bailey Meter Co.**, 1044 Ivanhoe Road, Cleveland 10, Ohio.
- **Bristol Co.**, The, Waterbury 20, Conn.
- **Control Engineering Corp.**, 863 Washington St., Canton, Mass.
- **Electro Products Labs., Inc.**, 549 W. Randolph St., Chicago 6, Ill.
- **Esterline-Angus Co., Inc.**, P. O. Box 596, Indianapolis 6, Ind.
- **Fischer & Porter Co.**, Hatboro, Pa.
- **FLADER, INC., FREDERIC**, North Tonawanda, N. Y. ADV. PG. 240.
- **Foxboro Co.**, The, Foxboro, Mass.
- **Friez Instrument Div.**, Bendix Aviation Corp., Baltimore 4, Md.
- **Hathaway Instrument Co.**, 1315 S. Clarkson St., Denver 10, Colo.
- **Leeds & Northrup Co.**, 4970 Stenton Ave., Philadelphia 44, Pa.
- **Manning, Maxwell & Moore, Inc.**, Stratford, Conn.
- **Minneapolis-Honeywell Regulator Co.**, Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- **SANBORN CO.**, 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- **Serdex, Inc.**, 91 Cambridge St., Boston, Mass.
- **Technitrol Engineering Co.**, 3212 Market St., Philadelphia, Pa.
- **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

RECORDERS—Smoke and Combustion

- **Bailey Meter Co.**, 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- **Bristol Co.**, The, Waterbury 20, Conn.
- **Combustion Control Corp.**, 77 Broadway, Cambridge 42, Mass.
- **Ess Instrument Co.**, 96 So. Washington Ave., Bergenfield, N. J.
- **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

- **Leeds & Northrup Co.**, 4970 Stenton Ave., Philadelphia 44, Pa.
- **Minneapolis-Honeywell Regulator Co.**, 2753 Fourth Avenue, S., Minneapolis, Minn.
- **Photobell Company**, 116 Nassau St., New York 7, N. Y.
- **Photoswitch, Inc.**, 77 Broadway, Cambridge 42, Mass.

RECORDERS—Sound Level

- **BRUSH DEVELOPMENT CO.**, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- **Fairchild Recording Equipment Corp.**, 154th St. & 7th Avenue, Whitestone, N. Y.
- **KAY ELECTRIC CO.**, 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- **SOUND APPARATUS CO.**, Stirling, N. J. ADV. PG. 243.

RECORDERS—Sound and Phonograph

- **Arlington Electric Products, Inc.**, 500 W. 52nd St., New York 19, N. Y.
- **Audak Co.**, 500 Fifth Ave., New York, N. Y.
- **Audio Industries**, Michigan City, Ind.
- **Berndt-Bach, Inc.**, 7377 Beverly Blvd., Los Angeles 36, Calif.
- **Cook Laboratories**, 139 Gordon Blvd., Floral Park, N. Y.
- **Fada Radio & Electric Co., Inc.**, 525 Main St., Belleville, N. J.
- **Fairchild Recording Equipment Corp.**, 154th St. & 7th Ave., Whitestone, N. Y.
- **Feiler Engineering Co.**, 1601 S. Federal St., Chicago 16, Ill.
- **KAY ELECTRIC CO.**, 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- **Maurer, Inc., J. A.**, 37-01 31st St., Long Island City, N. Y.
- **Meissner Mfg. Div.**, Maguire Industries, Inc., Mt. Carmel, Ill.
- **MILES REPRODUCER CO., INC.**, 812 Broadway, New York 3, N. Y. ADV. PG. 275.
- **Mirror Record Corp.**, 1133 Broadway, New York 10, N. Y.
- **PRESTO RECORDING CORP.**, Paramus, N. J. ADV. PG. 94, 95.
- **RADIO CORP. OF AMERICA**, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- **Rek-O-Kut Co., Inc.**, 38-01 Queens Blvd., Long Island City, N. Y.
- **Scully Machine Co.**, 62 Walter St., Bridgeport, Conn.
- **Simpson Mfg. Co., Inc.**, Mark, 32-28 49th St., Long Island City 3, N. Y.
- **Soundscriber Corp.**, 146 Munson St., New Haven 4, Conn.
- **Speak-O-Phone Recording & Equipment Co.**, 23 W. 60th St., New York, N. Y.
- **Webster-Chicago Corp.**, 5622 Bloomingdale Ave., Chicago 39, Ill.
- **West Coast Electronics Co.**, 1601 S. Burlington St., Los Angeles 6, Calif.
- **Wilcox-Gay Corp.**, Charlotte, Michigan.
- **Wireway Corp. of America**, 1331 Halsey St., Brooklyn 27, N. Y.

RECORDERS—Specific Gravity

- **Ess Instrument Co.**, 96 S. Washington Ave., Bergenfield, N. J.
- **Fischer & Porter Co.**, Hatboro, Pa.
- **Foxboro Co.**, The, Foxboro, Mass.
- **Leeds & Northrup Co.**, 4970 Stenton Ave., Philadelphia 44, Pa.
- **Minneapolis-Honeywell Regulator Co.**, Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

RECORDERS—Strain

- **Automatic Temperature Control Co., Inc.**, 5212 Pulaski Ave., Philadelphia 44, Pa.
- **Baldwin Locomotive Works**, Philadelphia 42, Pa.
- **Bendix Aviation Corp.**, Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- **BRUSH DEVELOPMENT CO.**, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- **CENTURY GEOPHYSICAL CORP.**, 133 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- **Consolidated Engineering Corp.**, 620 Lake Ave., Pasadena 4, Calif.
- **Edin Electronics Co.**, 207 Main St., Worcester, Mass.
- **ELECTRONIC TUBE CORP.**, 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.
- **Ellis Associates**, Box 77, Pelham 65, N. Y.
- **Foxboro Co.**, The, Foxboro, Mass.
- **Hathaway Instrument Co.**, 1315 S. Clarkson St., Denver 10, Colo.
- **HEILAND RESEARCH CORP.**, 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
- **Minneapolis-Honeywell Regulator Co.**, 2753 Fourth Avenue, S., Minneapolis, Minn.
- **ORAHM INSTRUMENTS INC.**, 12 West Broadway, New York 7, N. Y. ADV. PG. 178.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Ⓢ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.

RECORDERS—Tape

- Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- Ⓢ Ampex Electric Corp., 1155 Howard Ave., San Carlos, Calif.
- Ⓢ Ampro Corp., 2835 North Western Ave., Chicago 18, Ill.
- Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓢ Berlant Associates, 4917 W. Jefferson Blvd., Los Angeles 16, Calif.
- Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓢ Burnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓢ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Electronic Workshop, Inc., 351 Bleecker St., New York 14, N. Y.
- Ⓢ Fairchild Recording Equipment Corp., 154th St. & 7th Avenue, Whitestone, N. Y.
- Ⓢ Feller Engineering Co., 1601 S. Federal St., Chicago 15, Ill.
- Ⓢ Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ General Industries Co., Taylor & Olive Sts., Elyria, Ohio.
- Ⓢ Leks Mfg. Co., Ann Arbor, Mich.
- Ⓢ McElroy Mfg. Corp., Littleton, Mass.
- Ⓢ MAGNECORD, INC., 360 N. Michigan Ave., Chicago 1, Ill. ADV. PG. 187.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓢ National Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
- Ⓢ Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
- Ⓢ Pentron Corp., The, 611 W. Division St., Chicago 10, Ill.
- Ⓢ Pelmoflux Corp., 4900 W. Grand Ave., Chicago 39, Ill.
- Ⓢ PRESTO RECORDING CORP., Paramus, N. J. ADV. PG. 94, 95.
- Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ Proctor Soundex Corp., 133 N. 6th Ave., Mt. Vernon, N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ Rambertone, Inc., 73 Winthrop St., Newark 4, N. J.
- Ⓢ SOMAR RADIO CORP., 59 Myrtle Ave., Brooklyn 1, N. Y. ADV. PG. 204.
- Ⓢ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- Stancel-Hoffman Corp., 1016 N. Highland Ave., Hollywood, Calif.
- Ⓢ Wilcox-Gay Corp., Charlotte, Michigan.

RECORDERS—Telemetering

- Ⓢ Ampex Electric Corp., 1155 Howard Ave., San Carlos, Calif.
- Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
- Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Bailey Meter Co., 1044 Ivanhoe Road, Cleveland 10, Ohio.
- Ⓢ Bristol Co., The, Waterbury 20, Conn.
- Ⓢ Clark Instrument Corp., 910 King St., Silver Spring, Md.
- Ⓢ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓢ Fischer & Porter Co., Hatboro, Pa.
- Ⓢ Friez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ HEILAND RESEARCH CORP., 130 E. 5th Ave., Denver 9, Colo. ADV. PG. 242.
- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ Leopold & Stevens Instruments, Inc., 4445 N. E. Gilsan St., Portland 13, Ore.
- Ⓢ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Ⓢ Stancel-Hoffman Corp., 1016 N. Highland Ave., Hollywood, Calif.
- Ⓢ Thompson & Associates, John E., 7210 Yates Ave., Chicago 49, Ill.
- West Coast Electronics Co., 1601 S. Burlington St., Los Angeles 6, Calif.

RECORDERS—Telephone Recording Equipment

- Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓢ Dictaphone Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓢ EDISON INC., THOMAS A., 51 Lakeside Ave., West Orange, N. J. ADV. PG. 129.
- Hart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.
- Ⓢ MILES REPRODUCER CO., INC., 812 Broadway, New York 3, N. Y. ADV. PG. 275.
- Ⓢ Peirce Wire Recorder Corp., 1328 Sherman Ave., Evanston, Ill.
- Ⓢ Soundscriber Corp., 146 Munson St., New Haven 4, Conn.
- Ⓢ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓢ Telectronics Corp., 8479 Higuera St., Culver City, Calif.
- Ⓢ Wilcox-Gay Corp., Charlotte, Michigan.
- Ⓢ Wireway Corp. of America, 1331 Halsey St., Brooklyn 27, N. Y.

RECORDERS—Temperature

- Ⓢ Autocal Co., The, Shelby, Ohio.
- Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Bailey Meter Co., 1044 Ivanhoe Road, Cleveland 10, Ohio.
- Ⓢ Bristol Co., The, Waterbury 20, Conn.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Fischer & Porter Co., Hatboro, Pa.
- Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓢ Foxboro Co., The, Foxboro, Mass.
- Ⓢ Friez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓢ Gordon Co., Claud S., 3000 S. Wallace St., Chicago 16, Ill.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ Manning, Maxwell & Moore, Inc., Stratford, Conn.
- Ⓢ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Serdex, Inc., 91 Cambridge St., Boston, Mass.
- Ⓢ Thwin-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓢ Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

RECORDERS—Timing

- Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Cyclotron Specialties Co., Moraga 8, Calif.
- Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.
- Ⓢ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis, Ind.
- Ⓢ Gorrell & Gorrell, Haworth, N. J.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓢ Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- Ⓢ Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- Streeter-Amef Corp., 4101 N. Ravenswood Ave., Chicago 13, Ill.

RECORDERS—Torque

- Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.

RECORDERS—Vacuum

- Ⓢ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓢ Bristol Co., The, Waterbury 20, Conn.
- Ⓢ Control Engineering Corp., 863 Washington St., Canton, Mass.
- Ⓢ Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd., W., Rochester 3, N. Y.
- Ⓢ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓢ Foxboro Co., The, Foxboro, Mass.
- Ⓢ Fredericks Co., Geo. E., Bethayres, Pa.

- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ Manning, Maxwell & Moore, Inc., Stratford, Conn.
- Ⓢ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓢ National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

RECORDERS—Weight

- Ⓢ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓢ Foxboro Co., The, Foxboro, Mass.
- Ⓢ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Ⓢ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson, N. J. ADV. PG. 187.

RECORDERS—Wire

- Air-King Products Co., Inc., 170 53rd St., Brooklyn, N. Y.
- Ⓢ Audiograph Co., 1414 El Camino Real, San Carlos, Calif.
- Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓢ Crescent Industries, Inc., 4140 Belmont Ave., Chicago 41, Ill.
- Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
- Electronic Products Div., Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y.
- Ⓢ Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Ⓢ MILES REPRODUCER CO., INC., 812 Broadway, New York 3, N. Y. ADV. PG. 275.
- Mirror Recorder Corp., 1133 Broadway, New York 10, N. Y.
- Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓢ National Polytronics, Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
- Ⓢ Peirce Wire Recorder Corp., 1328 Sherman Ave., Evanston, Ill.
- Ⓢ Pentron Corp., 611 W. Division St., Chicago 10, Ill.
- Ⓢ Recordisc Corp., 395 Broadway, New York, N. Y.
- Ⓢ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- Ⓢ Webster-Chicago Corp., 5622 Bloomingdale Ave., Chicago 39, Ill.
- Ⓢ Wireway Corp. of America, 1331 Halsey St., Brooklyn 27, N. Y.

RECORDING HEADS

See Heads, Recording

RECORDS—Phonograph

- Audio-Master Co., 23 W. 45th St., New York 19, N. Y.
- Broadcasting Program Service, 23 W. 45th St., New York 19, N. Y.
- Ⓢ Cook Laboratories, 139 Gordon Blvd., Floral Park, N. Y.
- Ⓢ Decca Records, Inc., 50 West 57th St., New York 19, N. Y.
- Ⓢ Poinsettia Co., Inc., 95 Cedar Ave., Pitman, N. J.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Riggs & Jeffreys, Inc., 140 Glenridge Ave., Montclair, N. J.
- Ⓢ Schott Co. Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
- Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- Ⓢ Tempo Record Co. of America, 8540 Sunset Blvd., Hollywood 46, Calif.
- Ⓢ Wilcox-Gay Corp., Charlotte, Michigan.

RECTIFIERS—Crystal

- Ⓢ Kemtron Electron Products, Inc., 23 Brown St., Salem, Mass.
- Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

RECTIFIERS—Copper Oxide, Copper Sulphide or Selenium

See Rectifiers—Metallic

RECTIFIERS—Metallic

- Ⓢ AMERICAN TELEVISION & RADIO CO., 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- Ⓢ BRADLEY LABS., INC., 82 Meadow St., New Haven 10, Conn. ADV. PG. 152.
- Ⓢ Clark Electronic Labs., Box 165, Palm Springs, Calif.
- Ⓢ Conant Labs., 6500 O St., Lincoln 5, Nebr.
- Ⓢ Electrico Transformer Co., Westerly Rd., Ossining, N. Y.

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- Electron Equipment Corp., 917 Meridian Ave., South Pasadena, Calif.
 Ⓢ Electronic Controls Co. of New York, 3124 Avenue I, Brooklyn 10, N. Y.
 Ⓢ Electronic Rectifier, Inc., 737 N. East St., Indianapolis, Ind.
 Ⓢ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
 Ⓢ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ Green Electric Co., W., 130 Cedar St., New York, N. Y.
 Ⓢ International Rectifier Corp., 6809 S. Victoria Ave., Los Angeles 43, Calif.
 Ⓢ KOTRON RECTIFIER CORP., A Standard Arcturus Affiliate, 54 Clark St., Newark 4, N. J. ADV. PG. 249.
 Ⓢ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Ⓢ McColepin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif.
 Melco Products, Inc., 22 E. Hennepin Ave., Minneapolis 1, Minn.
 Ⓢ Mellaphone Corp., Rochester 2, N. Y.
 Ⓢ MODEL RECTIFIER CORP., 1510 Nostrand Ave., Brooklyn 26, N. Y. ADV. PG. 273.
 Ⓢ OPAD-GREEN CO., 71 Warren St., New York 7, N. Y. ADV. PG. 274.
 Ⓢ RADIO RECEPTOR CO., 251 W. 19th St., New York 11, N. Y. ADV. PG. 188.
 Ⓢ Rectifier Engineering Co., 1803 E. Seventh St., Los Angeles 21, Calif.
 Richardson Allen Corp., 15 W. 20th St., New York 11, N. Y.
 Ⓢ Sarkes Tarzian Inc., 415 N. College Ave., Bloomington, Ind.
 Ⓢ Schauer Mfg. Corp., 2119 Reading Rd., Cincinnati 2, Ohio.
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Ⓢ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
 Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
 Ⓢ Ther Electric & Machine Works, 15 S. Jefferson St., Chicago, Ill.
 Ⓢ Vickers Electric Div., Vickers, Inc., 1815 Locust St., St. Louis 3, Mo.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Ⓢ Z & W Machine Products, Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

RECTIFIERS—Tube Rectifying Units

- American Communications Corp., 306 Broadway, New York 7, N. Y.
 Ⓢ AMERICAN TELEVISION & RADIO CO., 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
 Ⓢ Amperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
 Electronic Transformer Co., Westerly Rd., Ossining, N. Y.
 Electron Equipment Corp., 917 Meridian Ave., South Pasadena, Calif.
 Ⓢ Furst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
 Ⓢ McColepin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif.
 Ⓢ Mellaphone Corp., Rochester 2, N. Y.
 Ⓢ National Spectrographic Laboratories, Inc., 6300 Euclid Ave., Cleveland 3, Ohio.
 Northeastern Engineering, Inc., Manchester, N. H.
 Ⓢ Power Equipment Co., 55 Antoinette St., Detroit 2, Mich.
 Ⓢ Rectifier Engineering Co., 1803 E. Seventh St., Los Angeles 21, Calif.
 Richardson Allen Corp., 15 W. 20th St., New York 11, N. Y.
 Ⓢ Ther Electric & Machine Works, 15 S. Jefferson St., Chicago, Ill.
 Ⓢ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
 Weltronic Co., 1950 West 8 Mile Rd., Detroit 19, Mich.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Ⓢ Z & W Machine Products, Inc., Electronics Div., 5151 St. Clair Ave., Cleveland 3, Ohio.

REGULATORS—Current

- Ⓢ Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
 Ⓢ Electric Regulator Corp., 1938 Park Ave., New York 35, N. Y.
 Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Ⓢ Furst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.

- Ⓢ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ SØRENSEN & CO., INC., 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
 Ⓢ Varo Mfg. Co., Box 638, Garland, Texas.
 Ⓢ Vickers Electric Division, Vickers, Inc., 1815 Locust St., St. Louis 3, Mo.
 Weltronic Co., 1950 West 8 Mile Rd., Detroit 19, Mich.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

REGULATORS—Frequency

- Ⓢ BRUSH DEVELOPMENT CO., 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
 Ⓢ Burlington Instrument Co., Burlington, Iowa.
 Ⓢ C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
 Ⓢ Electric Regulator Corp., 1938 Park Ave., New York 35, N. Y.
 Ⓢ Gaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
 Ⓢ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 Ⓢ Offner Electronics, Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
 Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
 Ⓢ Robinette, Co., W. C., 802 Fair Oaks Ave., S. Pasadena, Calif.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Sierra Electronic Corp., San Carlos, Calif.
 Ⓢ Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
 Ⓢ Vickers Electric Division, Vickers, Inc., 1815 Locust St., St. Louis 3, Mo.

REGULATORS—Voltage Regulators and Stabilizers

- Ⓢ American Transformer Co., 285 Emmett St., Newark, N. J.
 Ⓢ ECLIPSE-PIONEER Div., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
 Ⓢ Electric Auto-Lite Co., The Toledo 1, Ohio.
 Ⓢ Electric Regulator Corp., 1938 Park Ave., New York 35, N. Y.
 Ⓢ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif.
 Ⓢ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
 Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Ⓢ Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
 Ⓢ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 Ⓢ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
 Ⓢ Furst Electronics, 10A S. Jefferson St., Chicago 6, Ill.
 Ⓢ Gaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194.
 Ⓢ LAMBDA ELECTRONICS CORP., 103-02 Northern Blvd., Corona, N. Y. ADV. PG. 268.
 Ⓢ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 Ⓢ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
 Ⓢ RED BANK DIVISION, Bendix Aviation Corp., Red Bank, N. J. ADV. PG. 61, 127.
 Richardson Allen Corp., 15 W. 20th St., New York 11, N. Y.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Ⓢ Sola Electric Co., 4633 W. 16th St., Chicago 50, Ill.
 Ⓢ SØRENSEN & CO., INC., 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
 Ⓢ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
 Ⓢ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
 Ⓢ States Co., 19 New Park Ave., Hartford 6, Conn.
 Ⓢ SUPERIOR ELECTRIC CO., THE, 83 Meadow St., Bristol, Conn. ADV. PG. 110, 111.
 Ⓢ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
 Ⓢ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover.
 Ⓢ Varo Mfg. Co., Inc., Box 638, Garland, Texas.
 Ⓢ Vickers Electric Division, Vickers, Inc., 1815 Locust St., St. Louis 3, Mo.
 Weltronic Co., 1950 West 8 Mile Rd., Detroit 19, Mich.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

NOTE:

Throughout all relay listings: (h) indicates hermetically sealed types

RELAYS—Aircraft Type

- Ⓢ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
 Ⓢ AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
 Ⓢ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
 Ⓢ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
 Ⓢ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
 Ⓢ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
 Ⓢ Control Engineering Corp., 863 Washington St., Canton, Mass. (h)
 Ⓢ Cook Electric Co., 2700 Southport Ave., Chicago, Ill. (h)
 Ⓢ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis. (h)
 Ⓢ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
 Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
 Ⓢ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
 Ⓢ Leach Relay Co., Inc., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
 Ⓢ McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo. (h)
 Ⓢ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
 Ⓢ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
 Ⓢ Price Electric Corp., Frederick, Md. (h)
 Ⓢ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
 Ⓢ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y. (h)
 Ⓢ Standard Electrical Products Co., 402 E. 1st St., Dayton 3, Ohio. (h)
 Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England. (h)
 Ⓢ Sterling Engineering Co., Laconia, N. H. (h)
 Ⓢ Struthers-Dunn, Inc., 150 N. 13th Street, Philadelphia 7, Pa. (h)
 Ⓢ Varo Mfg. Co., Inc., Box 638, Garland, Texas. (h)
 Ⓢ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)

RELAYS—Capacitance Operated

- Ⓢ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
 Ⓢ Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.
 Ⓢ Niagara Electron Laboratories, Andover, N. Y.
 Ⓢ Photobell Company, 116 Nassau St., New York 7, N. Y.
 Ⓢ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.

RELAYS—Coaxial

- Ⓢ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
 Ⓢ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
 Ⓢ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31.
 Ⓢ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
 Ⓢ Price Electric Corp., Frederick, Md. (h)
 Ⓢ Product Development Co., Inc., Arlington, N. J.
 Ⓢ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.

RELAYS—d'Arsonval

- Ⓢ Assembly Products, Inc., Chagrin Falls 6, Ohio.
 Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
 Ⓢ EDISON INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129. (h)
 Ⓢ Electric Design & Mfg. Corp., Burlington, Iowa.
 Ⓢ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
 Ⓢ Triplett Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.
 Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Ⓢ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

RELAYS—Differential

- Ⓢ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
 Ⓢ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
 Ⓢ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)

① indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ① Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ① Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ① Cook Electric Co., 2700 Southport Ave., Chicago, Ill. (h)
- ① EDISON INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129. (h)
- ① Electric Regulator Corp., 1938 Park Ave., New York 3, N. Y. (h)
- ① KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- ① McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo. (h)
- ① PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ① Price Electric Corp., Frederick, Md. (h)
- ① SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- ① Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y. (h)
- ① Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- ① Sterling Engineering Co., Laconia, N. H. (h)
- ① WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

RELAYS—Electronic Current

- ① Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ① ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- ① American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- ① Automatic Electric Sales Co., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa. (h)
- ① Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill. (h)
- ① Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif. (h)
- ① Corona Engineering Service, 94-52 Corona Ave., Elmhurst, N. Y. (h)
- ① Deitz Co., S. J., Box 65, W. Englewood, N. J. (h)
- ① Michigan Control Corp., 1573 E. Forest St., Detroit, Mich. (h)
- ① Fischer Scientific Co., 717 Forbes St., Pittsburgh 19, Pa. (h)
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ① Gorrell & Gorrell, Haworth, N. J. (h)
- ① Industrial Electronics Co., Inc., Hanover, Mass. (h)
- ① KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- ① Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ① Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- ① Manning, Maxwell & Moore, Inc., Stratford, Conn. (h)
- ① PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ① POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- ① Price Electric Corp., Frederick, Md. (h)
- ① R. B. M. Division, Essex Wire Corp., Logansport, Ind. (h)
- ① SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 8, N. J. ADV. PG. 187. (h)
- ① SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- ① Signal Engineering & Mfg. Co., 154-6 W. 14th Street, New York, N. Y. (h)
- ① Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- ① Sterling Engineering Co., Laconia, N. H. (h)
- ① Varo Mfg. Co., Box 638, Garland, Texas. (h)
- ① WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108. (h)

RELAYS—Frequency Selective

- ① Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ① ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif. (h)
- ① Control Corp., 718 Central Ave., Minneapolis 14, Minn. (h)
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ① Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill. (h)
- ① Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ① Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y. (h)
- ① Stevens-Arnold, Inc., 22 Elkins St., South Boston 27, Mass. (h)
- ① Varo Mfg. Co., Inc., Box 638, Garland, Texas. (h)

- ① Wallace & Tiernan Products, Inc., Belleville 9, N. J. (h)
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108. (h)

RELAYS—General Purpose

- ① Adams & Westlake Co., Michigan St., Elkhart, Ind. (h)
- ① Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ① Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis. (h)
- ① ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- ① American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- ① Autocall Co., The, Shelby, Ohio. (h)
- ① Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ① Automatic Switch Co., 391 Lakeside Ave., Orange, N. J. (h)
- ① Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y. (h)
- ① Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ① Cook Electric Co., 2700 Southport Ave., Chicago, Ill. (h)
- ① Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis. (h)
- ① Durakool Inc., 1010 N. Main St., Elkhart, Ind. (h)
- ① GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18. (h)
- ① GRAYBILL, 4524 W. Madison St., Chicago 24, Ill. ADV. PG. 250. (h)
- ① GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31 (h)
- ① KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- ① Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ① Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis, Minn. (h)
- ① PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ① POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- ① Price Electric Corp., Frederick, Md. (h)
- ① R. B. M. Div., Essex Wire Corp., Logansport, Ind. (h)
- ① SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- ① Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y. (h)
- ① Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- ① Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England. (h)
- ① Sterling Engineering Co., Laconia, N. H. (h)
- ① Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- ① WARD LEONARD ELECTRIC CO., 31 South Street, Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- ① Warrick Co., Chas. F., 16251 Hamilton Ave., Detroit 3, Mich. (h)
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108. (h)

RELAYS—Impulse

- ① Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ① ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- ① Autocall Co., The, Shelby, Ohio. (h)
- ① Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa. (h)
- ① Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ① Gates Radio Co., Quincy, Ill. (h)
- ① Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill. (h)
- ① Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ① PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ① Price Electric Corp., Frederick, Md. (h)
- ① SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- ① Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y. (h)
- ① Sterling Engineering Co., Laconia, N. H. (h)
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- ① Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill. (h)

RELAYS—Industrial Control

- ① Adams & Westlake Co., Michigan St., Elkhart, Ind. (h)
- ① Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ① Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wisconsin. (h)

- ① ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- ① American Relay & Control, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- ① Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ① Automatic Signal Division, 100 Regent St., East Norwalk, Conn. (h)
- ① Automatic Switch Co., 391 Lakeside Ave., Orange, N. J. (h)
- ① Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa. (h)
- ① Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ① Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio. (h)
- ① Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill. (h)
- ① Corona Engineering Service, 94-52 Corona Ave., Elmhurst, N. Y. (h)
- ① Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis. (h)
- ① Deitz Co., S. J., Box 65, W. Englewood, N. J. (h)
- ① Durakool, Inc., 1010 N. Main St., Elkhart, Ind. (h)
- ① General Controls Co., Glendale 1, Calif. (h)
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ① Gorrell & Gorrell, Haworth, N. J. (h)
- ① GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- ① INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255. (h)
- ① KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- ① Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ① Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- ① Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis, Minn. (h)
- ① POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- ① PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ① Price Electric Corp., Frederick, Md. (h)
- ① R. B. M. Div., Essex Wire Corp., Logansport, Ind. (h)
- ① SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- ① Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y. (h)
- ① Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- ① Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- ① WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- ① WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh, Pa. ADV. PG. 77. (h)
- ① WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108. (h)

RELAYS—Instrument

- ① Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ① AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- ① ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- ① American Relay & Controls Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- ① Assembly Products, Inc., Chagrin Falls 6, Ohio. (h)
- ① Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ① Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif. (h)
- ① Electric Design & Mfg. Corp., Burlington, Iowa. (h)
- ① GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ① KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- ① Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ① Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- ① Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn. (h)
- ① PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ① POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- ① Roller-Smith, Bethlehem, Pa. (h)
- ① SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- ① Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y. (h)
- ① Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill. (h)
- ① Triplett Electrical Instrument Co., 286 Harmon Rd., Bluffton, Ohio. (h)
- ① WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)

RELAYS—Keying and Break-In

- ① Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ① ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)

Ⓟ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Boehme Inc., H. O., 915 Broadway, New York 10, N. Y.
- Ⓟ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- Ⓟ Leach Relay Co., Inc., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Ⓟ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓟ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓟ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓟ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓟ Stevens-Arnold, Inc., 22 Elkins St., South Boston 27, Mass.
- Ⓟ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)

RELAYS—Latching

- Ⓟ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓟ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓟ Autocall Co., The, Shelby, Ohio.
- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.
- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
- Ⓟ Control Corp., 718 Central Ave., Minneapolis 14, Minn.
- Ⓟ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓟ Gates Radio Co., Quincy, Ill.
- Ⓟ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- Ⓟ Hoffman Engineering Corp., Anoka, Minn.
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- Ⓟ Leach Relay Co., Inc., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Ⓟ LELAND INC., G. H., 123 Webster St., Dayton 2, Ohio. ADV. 246, 247. (h)
- Ⓟ North Electric Mfg. Co., 501 S. Market St., Galion, Ohio.
- Ⓟ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓟ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓟ Price Electric Corp., Frederick, Md. (h)
- Ⓟ R. B. M. Division, Essex Wire Corporation, Logansport, Ind.
- Ⓟ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓟ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓟ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
- Ⓟ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- Ⓟ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)

RELAYS—Mercury

- Ⓟ Adams & Westlake Co., Michigan St., Elkhart, Ind.
- Ⓟ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ Durakool, Inc., 1020 N. Main St., Elkhart, Ind.
- Ⓟ Ebert Electronics Corp., 185-09 Jamaica Ave., Hollis 7, N. Y. (h)
- Ⓟ Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- Ⓟ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓟ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
- Ⓟ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)

RELAYS—Multipole

- Ⓟ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓟ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓟ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓟ Autocall Co., The, Shelby, Ohio.
- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.

- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓟ Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Ⓟ LELAND INC., G. H., 123 Webster Ave., Dayton 2, Ohio. ADV. PG. 246, 247. (h)
- Ⓟ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓟ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓟ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓟ Price Electric Corp., Frederick, Md. (h)
- Ⓟ R. B. M. Div., Essex Wire Corp., Logansport, Ind. (h)
- Ⓟ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓟ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓟ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓟ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- Ⓟ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

RELAYS—Overload and Underload

- Ⓟ Adams & Westlake Co., Michigan St., Elkhart, Ind. (h)
- Ⓟ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓟ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓟ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
- Ⓟ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill. (h)
- Ⓟ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓟ EDISON INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129. (h)
- Ⓟ Federal Electric Products Co., 50 Paris St., Newark, N. J.
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓟ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- Ⓟ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓟ JENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115. (h)
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- Ⓟ Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Ⓟ Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- Ⓟ Price Electric Corp., Frederick, Md. (h)
- Ⓟ R. B. M. Division, Essex Wire Corp., Logansport, Ind. (h)
- Ⓟ Roller-Smith, Bethlehem, Pa.
- Ⓟ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓟ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓟ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓟ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- Ⓟ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

RELAYS—Photoelectric

- Ⓟ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓟ Airflectron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓟ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓟ American Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓟ Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- Ⓟ Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓟ Gorrell & Gorrell, Haworth, N. J.
- Ⓟ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓟ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 260. (h)
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- Ⓟ Lectro-Max Inc., 15 S. First St., Geneva, Ill.

- Lumenite Electric Co., 407 So. Dearborn St., Chicago 5, Ill.
- Ⓟ O'Connor & Co., John T., West Orange, N. J.
- Ⓟ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓟ Photobell Company, 116 Nassau St., New York 7, N. Y.
- Ⓟ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓟ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204. (h)
- Ⓟ Price Electric Corp., Frederick, Md. (h)
- Ⓟ Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓟ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓟ Special Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.
- Ⓟ Sterling Engineering Co., Laconia, N. H. (h)
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- Ⓟ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108. (h)
- Ⓟ Worner Electronic Devices, Rankin, Ill.

RELAYS—Plate Circuit

- Ⓟ Adams & Westlake Co., Michigan St., Elkhart, Ind.
- Ⓟ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓟ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓟ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ Control Corp., 718 Central Ave., Minneapolis 14, Minn.
- Ⓟ Control Engineering Corp., 863 Washington St., Canton, Mass. (h)
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- Ⓟ Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Ⓟ PHILLIPS CONTROL CORP., 82 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓟ POTTER & BRUMFIELD, Princeton, Ind. ADV. PG. 58. (h)
- Ⓟ Price Electric Corp., Frederick, Md. (h)
- Ⓟ R. B. M. Div., Essex Wire Corp., Logansport, Ind. (h)
- Ⓟ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓟ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓟ Spencer Thermostat Co., 34 Forest St., Attleboro, Mass.
- Ⓟ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓟ Sterling Engineering Co., Laconia, N. H. (h)
- Ⓟ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

RELAYS—Polarized

- Ⓟ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- Ⓟ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓟ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓟ Barber-Colman Co., Rockford, Ill.
- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ EDISON, INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129. (h)
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214. (h)
- Ⓟ Magnetic Devices, Inc., 712 East St., Frederick, Md. (h)
- Ⓟ Price Electric Corp., Frederick, Md. (h)
- Ⓟ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓟ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓟ Stevens-Arnold, Inc., 22 Elkins St., South Boston 27, Mass. (h)
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

RELAYS—Power

- Ⓟ Adams & Westlake Co., Michigan St., Elkhart, Ind.
- Ⓟ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓟ Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- Ⓟ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓟ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓟ Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.
- Ⓟ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓟ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill. (h)
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Gordon Specialties Co., 906 W. North Ave., Chicago 22, Ill.
- Ⓜ JENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- Ⓜ KURMAN ELECTRIC CO. INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Ⓜ Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- Ⓜ Magnetic Devices Inc., 712 East St., Frederick, Md.
- Ⓜ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓜ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ R. B. M. Division, Essex Wire Corp., Logansport, Ind. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓜ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓜ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- Ⓜ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

- Ⓜ Warrick Co., Charles F., 16251 Hamilton Ave., Detroit 3, Mich.
- Ⓜ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

RELAYS—Sequence

- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ Autocall Co., The, Shelby, Ohio.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓜ LELAND INC., G. H., 123 Webster Ave., Dayton 2, Ohio. ADV. PG. 246, 147.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓜ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓜ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

- Ⓜ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓜ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- Ⓜ Warrick Co., Charles F., 16251 Hamilton Ave., Detroit 3, Mich.

RELAYS—Stepping

- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ Autocall Co., The, Shelby, Ohio.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- Ⓜ LELAND, INC., G. H., 123 Webster St., Dayton 2, Ohio. ADV. PG. 246, 247.
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)

RELAYS—Rotary

- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ Autocall Co., The, Shelby, Ohio.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ LELAND, INC., G. H., 123 Webster St., Dayton 2, Ohio. ADV. PG. 246, 247.
- Ⓜ Magnetic Devices, Inc., 712 East St., Frederick, Md.
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ U. S. Instrument Corp., 409 Broad St., Summit, N. J.

RELAYS—Shock-Resisting

- Ⓜ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓜ Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓜ KURMAN ELECTRIC CO. INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Ⓜ Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Ⓜ Magnetic Devices, Inc., 712 East St., Frederick, Md.
- Ⓜ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓜ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓜ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓜ Stevens-Arnold Inc., 22 Elkins St., South Boston 27, Mass. (h)
- Ⓜ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
- Ⓜ U. S. Instrument Corp., 409 Broad St., Summit, N. J.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RELAYS—Telephone

- Ⓜ Adams & Westlake Co., Michigan St., Elkhart, Ind. (h)
- Ⓜ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓜ AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓜ Autocall Co., The, Shelby, Ohio.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ Control Corp., 718 Central Ave., Minneapolis 14, Minn.
- Ⓜ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill. (h)
- Ⓜ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- Ⓜ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓜ KURMAN ELECTRIC CO. INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Ⓜ North Electric Mfg. Co., 501 S. Market St., Galion, Ohio.
- Ⓜ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓜ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ R. B. M. Div. Essex Wire Corp., Logansport, Ind. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓜ Standard Electrical Products Co., Dayton 3, Ohio. (h)
- Ⓜ Sterling Engineering Co., Laconia, N. H. (h)

RELAYS—Sensitive Control

- Ⓜ Adams & Westlake Co., Michigan St., Elkhart, Ind.
- Ⓜ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓜ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓜ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓜ Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ Control Engineering Corp., 863 Washington St., Canton, Mass. (h)
- Ⓜ Delta Co., S. J., Box 65, W. Englewood, N. J.
- Ⓜ EDISON INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129. (h)
- Ⓜ General Controls Co., Glendale 1, Calif.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓜ Gorrell & Gorrell, Haworth, N. J.
- Ⓜ KURMAN ELECTRIC CO. INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Ⓜ Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Ⓜ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill. (h)
- Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- Ⓜ Magnetic Devices, Inc., 712 East St., Frederick, Md.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓜ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓜ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- Ⓜ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- Ⓜ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓜ Sterling Engineering Co., Laconia, N. H. (h)
- Ⓜ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- Ⓜ Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- Ⓜ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)

RELAYS—Snap-Action

- Ⓜ Adams & Westlake Co., Michigan St., Elkhart, Ind. (h)
- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- Ⓜ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill. (h)
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓜ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- Ⓜ KURMAN ELECTRIC CO. INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Ⓜ Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓜ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓜ POTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- Ⓜ Price Electric Corp., Frederick, Md. (h)
- Ⓜ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.

RELAYS—Temperature Compensated

- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓜ KURMAN ELECTRIC CO. INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- Ⓜ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓜ PHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- Ⓜ SIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- Ⓜ Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.

RELAYS—Time Delay

- Ⓜ Adams & Westlake Co., Michigan St., Elkhart, Ind.
- Ⓜ Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- Ⓜ Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- Ⓜ ALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- Ⓜ AMERICAN GAS ACCUMULATOR CO., 1029 Newark Ave., Elizabeth, N. J. ADV. PG. 66.
- Ⓜ American Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓂAMPERITE CO., 561 Broadway, New York 12, N. Y. ADV. PG. 218. (h)
- ⓂAutocall Co., The, Shelby, Ohio.
- ⓂAutomatic Electric Sales Co., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ⓂAutomatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- ⓂClare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ⓂClark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
- ⓂCook Electric Co., 2700 Southport Ave., Chicago 14, Ill. (h)
- ⓂCRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208. (h)
- ⓂDeitz Co., S. J., Box 65, W. Englewood, N. J. Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
- ⓂEagle Signal Corp., Moline, Illinois.
- ⓂEDISON, INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129. (h)
- ⓂElectronic Control Corp., 1573 E. Forest St., Detroit, Mich.
- ⓂGaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ⓂGUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31. (h)
- ⓂHAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236. (h)
- ⓂHAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- ⓂIndustrial Electronics Co., Inc., Hanover, Mass.
- ⓂIndustrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- ⓂKURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- ⓂLeach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ⓂLectro-Max, Inc., 15 S. First St., Geneva, Ill.
- ⓂLektra Laboratories, 30 E. 10th St., New York 3, N. Y. (h)
- ⓂLumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
- ⓂPHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ⓂPOTTER & BRUMFIELD, Princeton, Ind. ADV. PG. 58. (h)
- ⓂPrice Electric Corp., Frederick, Md. (h)
- ⓂSIGMA INSTRUMENTS, INC., 80 Ceylon St., Boston 22, Mass. ADV. PG. 195. (h)
- ⓂSignal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- ⓂSpencer Thermostat Co., 34 Forest St., Attleboro, Mass.
- ⓂStandard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- ⓂSterling Engineering Co., Laconia, N. H. (h)
- ⓂStruthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- ⓂUlanet Co., George, 413 Market St., Newark 5, N. J.
- ⓂVaro Mfg. Co., Inc., Box 638, Garland, Tex.
- ⓂWARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)
- ⓂWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

RELAYS—Transfer

- ⓂAdams & Westlake Co., Michigan St., Elkhart, Ind.
- ⓂAdvance Electric & Relay Co., 2435 Naomi St., Burbank, Calif. (h)
- ⓂALLIED CONTROL CO., INC., 2 East End Ave., New York 21, N. Y. ADV. PG. 98, 99. (h)
- ⓂAmerican Relay & Controls, Inc., 4901 W. Flournoy St., Chicago 44, Ill. (h)
- ⓂAutomatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ⓂAutomatic Switch Co., 391 Lakeside Ave., Orange, N. J.
- ⓂClare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ⓂGates Radio Co., Quincy, Ill.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5 N. Y. ADV. PG. 5 to 18. (h)
- ⓂJENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- ⓂKURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- ⓂLeach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif. (h)
- ⓂMinneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ⓂPHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230. (h)
- ⓂPOTTER & BRUMFIELD, Princeton, Indiana. ADV. PG. 58. (h)
- ⓂPrice Electric Corp., Frederick, Md. (h)
- ⓂSignal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- ⓂStruthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa. (h)
- ⓂWARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52. (h)

RELAYS—Vacuum Contact

- ⓂClare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill. (h)
- ⓂEitel-McCullough, Inc., San Bruno, Calif.
- ⓂJENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- ⓂKelllogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- ⓂMack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa. (h)
- ⓂSignal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- ⓂSperti, Inc., Cincinnati, Ohio.

RELAYS—Vibrating Reed Type

- ⓂAMERICAN TELEVISION & RADIO CO., 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- ⓂAutomatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill. (h)
- ⓂBiddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
- ⓂBunnell & Co., J. H. 81 Prospect St., Brooklyn, N. Y.
- ⓂControl Corp., 718 Central Ave., Minneapolis 14, Minn.
- ⓂKURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- ⓂSignal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
- ⓂStevens-Arnold, Inc., 22 Elkins St., South Boston 27, Mass. (h)
- ⓂVokar Corp., 7300 Huron River Drive, Dexter, Mich.

RESINS

See Insulating Compounds

RESISTANCE SPECIALTIES

- Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
- ⓂBerkshire Laboratories, P. O. Box 70, Concord, Mass.
- ⓂBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- ⓂCIMA CORP., 91 Boylston St., Jamaica Plains 30, Mass. ADV. PG. 269.
- ⓂCINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- ⓂCLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- ⓂDaven Co., 191 Central Ave., Newark 4, N. J.
- ⓂDEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- ⓂERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂHELIPOT CORP., 916 Meridian Ave., So. Pasadena, Calif. ADV. PG. 101.
- ⓂINSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- ⓂINTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- ⓂMEPCO, INC., 35-37 Abbott Ave., Morristown, N. J. ADV. PG. 196.
- ⓂOhio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.
- ⓂOHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- ⓂPlastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- ⓂPrecision Resistor Co., 334 Badger Ave., Newark 8, N. J.
- ⓂRESISTANCE PRODUCTS CO., 714 Race St., Harrisburg, Pa. ADV. PG. 190.
- ⓂRubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- ⓂSHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- ⓂTech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. Y.
- ⓂWellwyn Electronic Components, Inc., 234 E. 46th St., New York 17, N. Y.

RESISTORS

Fixed Composition

1. Low wattage
2. Temperature sensitive
3. High frequency
4. High megohm
5. High voltage
6. High wattage
7. Voltage sensitive
8. Resistor-suppressor

Variable Composition

9. Controls & potentiometers

Wire Wound

10. 2 Watts and under
11. 4 to 35 Watts
12. 4 to 500 Watts
13. 500 to 1500 Watts
14. Precision low voltage
15. Precision high voltage
16. Rf non-inductive

Variable Wire Wound

17. 4 Watts and under
18. 5 to 25 Watts
19. 25 Watts and over
20. 500 Watts and over
21. Slide wire
22. Adjustable
23. Rheostat—potentiometer types

Note: (h) indicates hermetically sealed types.

- ⓂAcme Electric Heating Co., 1217 Washington St., Boston, Mass. 12-13. (h)
- ⓂAllen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis. 1-9.
- ⓂAmalgamated Electronics, Electronic Road, Clinton Corners, N. Y. 23.
- ⓂAssociated Research Inc., 3788 W. Belmont Ave., Chicago 18, Ill. 10.
- ⓂBarber-Colman Company, Rockford, Ill. 2.
- ⓂBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. 10-11-14-15-16. ADV. PG. 250.
- ⓂBRADLEY LABS., 82 Meadow St., New Haven, Conn. 2-7. ADV. PG. 152.
- ⓂBROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Ore. 10-14-17-18-21-22-23. ADV. PG. 276.
- ⓂCarborundum Co., Globar Div., Niagara Falls, N. Y. 1-2-5-6-7-8.
- ⓂCarter Parts Company, 213 Institute Place, Chicago 10, Ill. 9-10.
- ⓂCENTRALAB DIVISION, GLOBE-UNION INC., 900 Keefe Ave., Milwaukee 1, Wis. 9-17-18-19-23. ADV. PG. 64, 65.
- ⓂChicago Telephone Supply Corp., 1142 W. Beardsley Ave., Elkhart, Ind. 9-17.
- ⓂCIMA CORP., 91 Boylston St., Jamaica Plains 30, Mass. 11-12-13-14-15-16. ADV. PG. 269.
- ⓂCINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. 10-11-14-21-23. ADV. PG. 186.
- ⓂClark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio. 12-13.
- ⓂCLAROSTAT MFG. CO., INC., Dover, N. H. 9-10-11-12-14-15-16-17-18-19-21-22-23. ADV. PG. 227. (h)
- ⓂCoil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y. 11-12-13-14-16.
- ⓂConsolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill. 3-10-14.
- ⓂContinental Carbon, Inc., 13900 Lorain Ave., Cleveland 11, Ohio. 1-8-10.
- ⓂDaven Co., 191 Central Ave., Newark 4, N. J. 10-14-16-22-23. (h)
- ⓂDavis Electric Co., Cape Girardeau, Mo. 11-14-18-19.
- ⓂDEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. 17-18-19-23. ADV. PG. 267.
- ⓂELECTRICAL REACTANCE CORP., Elm St., Franklinville, N. Y. 11. ADV. PG. 28, 29.
- ⓂElliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y. 13.
- ⓂERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. 1-8. ADV. PG. 47.
- ⓂFairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y. 23.
- ⓂFederal Instrument Corp., 14-02 Broadway, Long Island City 6, N. Y. 10-14.
- ⓂFord Engineering Co., 2738 Colorado Blvd., Los Angeles 41, Calif. 23.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. 11-13-18-20-22. ADV. PG. 5 to 18.
- ⓂGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. 10-14-16-17-18-22-23. ADV. PG. 48, 49.
- ⓂGiannini & Co., Inc., 285 W. Colorado St., Pasadena 1, Calif. 17-23.
- ⓂGreylin Co., Box 258, Chicago 90, Ill. 10-14.
- ⓂHARDWICK, HINDLE INC., 40 Hermon Street, Newark, N. J. 11-12-18-19-20-21-22-23. ADV. PG. 119.
- ⓂHELIPOT CORP., 916 Meridian Ave., South Pasadena, Calif. 17-18-23. ADV. PG. 101.
- ⓂI-T-E CIRCUIT BREAKER CO., 19th and Hamilton Sts., Philadelphia 30, Pa. 10-11-12-17-18-19-22. ADV. PG. 40, 41.
- ⓂINSTRUMENT RESISTORS CO., 1036 Commerce Ave., Union, N. J. 3-4-7-8-10-14-15-16. ADV. PG. 174, 175.
- ⓂINTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. 1-3-4-5-6-7-8-9-10-11-12-14-15-16-17-18-19-22-23. ADV. PG. 88, 89. (h)
- ⓂK. F. Development Co., 820 Woodside Way, San Mateo, Calif. 23.
- ⓂKEYSTONE CARBON CO., INC., St. Marys, Pa. 2. ADV. PG. 42.
- ⓂKupfrian Mfg. Co., Binghamton, N. Y. 13.
- ⓂLectrohm Inc., 5939 Archer Ave., Chicago 38, Ill. 2-10-14-15.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 42, Pa. 10-14-16-21-22-23. (h)
- Ⓜ MACDONALD & CO., INC., W. S., 33 University Rd., Cambridge 38, Mass. 10-14. ADV. PG. 218.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind. 2-3-10-14-15-17.
- Ⓜ MEPCO INC., 35-37 Abbot Ave., Morristown, N. J. 10-14-15. ADV. PG. 196.
- Ⓜ Micamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y. 10.
- Ⓜ Milwaukee Resistor Co., 700 W. Virginia St., Milwaukee 4, Wis. 10-12-18-19-22.
- Ⓜ Model Engineering & Mfg., Inc., Huntington, Ind. 11-12-18-19-22.
- Ⓜ Mutter Co., 1255 S. Michigan Ave., Chicago, Ill. 11-17-18-23.
- Ⓜ Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio. 5-7-8-10-11-12-22.
- Ⓜ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. 3-9-10-11-12-13-14-16-18-19-20-21-22. ADV. PG. 83.
- Ⓜ Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y. 4-5.
- Ⓜ Precision Resistor Co., 334 Badger Ave., Newark 8, N. J. 10-11-14-15. (h)
- Ⓜ RESISTANCE PRODUCTS CO., 714 Race St., Harrisburg 2, Pa. 3-4-5-6-10-14. ADV. PG. 190.
- Ⓜ Resistors, Inc., 5226 W. 26th St., Chicago 50, Ill. 11-12-18-19.
- Ⓜ REX RHEOSTAT CO., 3 Foxhurst Rd., Baldwin, N. Y. 12-13-19-21-22-23. ADV. PG. 255.
- Ⓜ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa. 14.
- Ⓜ St. Mary's Carbon Co., State Rd., St. Marys, Pa. 1-2-5-6-7-8.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. 10-11-12-14-15-16-21. ADV. PG. 221. (h)
- Ⓜ Speer Resistor Corp., St. Marys, Pa. 1-2-5-6-7-8.
- Ⓜ Sprague Electric Co., North Adams, Mass. 4-5-6-11-12-14-15. (h)
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. 1. ADV. PG. 166, 167.
- Ⓜ Sterling Engineering Co., Laconia, N. H. 10-14.
- Ⓜ STURAKOFF CERAMIC & MFG. CO., Latrobe, Pa. 2-7. ADV. PG. 147.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Bldvs., Palisades Park, N. J. 3-9-14-16-17-23.
- Ⓜ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass. 17-18-21-22-23. (h)
- Ⓜ VICTOREEN INSTRUMENT CO., 5806 Hough Ave., Cleveland 3, Ohio. 3-4. ADV. PG. 241.
- Ⓜ WARD LEONARD ELECTRIC CO., 21 South St., Mt. Vernon, N. Y. 11-12-13-16-19-20-22-23. ADV. PG. 51, 52.
- Ⓜ Welwyn Electronic Components, Inc., 234 E. 46th St., New York 17, N. Y. 11-12.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. 3-10-23. ADV. PG. 77.
- Ⓜ White Dental Mfg Co., S. S., Industrial Div., 10 East 40th St., New York 16, N. Y. 1-4-5.
- Ⓜ Wilkor Products Inc., 2882 Detroit Ave., Cleveland 13, Ohio. 10-11.
- Ⓜ Wirt Co., 5221 Greene St., Philadelphia, Pa. 10-11-12-13-17-23.

RHEOSTATS

- Acme Electric Heating Co., 1217 Washington St., Boston, Mass.
- Ⓜ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
- Ⓜ CENTRALAB, DIV., GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 7, Wis. ADV. PG. 64, 65.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
- Ⓜ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- Ⓜ Columbia Electric Mfg. Co., 4519 Hamilton Ave., N.E., Cleveland 14, Ohio.
- Ⓜ Cutler Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ DEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- Ⓜ Eastern Specialty Co., Philadelphia 40, Pa.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. 48, 49.
- Ⓜ HARDWICK, HINDLE INC., 40 Hermon St., Newark 5, N. J. ADV. PG. 119.
- Ⓜ HELIPOT CORP., 916 Meridian Ave., S. Pasadena, Calif. ADV. PG. 101.
- Ⓜ INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York, N. Y. ADV. PG. 109.
- Ⓜ National Electric Controller Co., 5307 Ravenswood Ave., Chicago, Ill.
- Ⓜ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- Ⓜ REX RHEOSTAT CO., 3 Foxhurst Rd., Baldwin, N. Y. ADV. PG. 255.

- Ⓜ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Ⓜ WARD LEONARD ELECTRIC CO., 31 South St., Mount Vernon, N. Y. ADV. PG. 51, 52.

RHEOSTATS—Slide Wire

- Ⓜ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
- Ⓜ Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Ⓜ CIMA CORP., 91 Boylston St., Jamaica Plains 30, Mass. ADV. PG. 269.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ HARDWICK, HINDLE INC., 40 Hermon St., Newark 5, N. J. ADV. PG. 119.
- Ⓜ HELIPOT CORP., 916 Meridian Ave., So. Pasadena, Calif. ADV. PG. 101.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- Ⓜ REX RHEOSTAT CO., 3 Foxhurst Rd., Baldwin, N. Y. ADV. PG. 255.
- Ⓜ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Ⓜ Technology Instrument Corp., 1058 Main St., Waltham 54, Mass.
- Ⓜ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

RINGS—Carbon Packing

- Ⓜ Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill. Electro-Nite Carbon Co., 1133 E. Columbia Ave., Phila. 25, Pa.
- Ⓜ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓜ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- Ⓜ Pure Carbon Co., St. Marys, Pa.
- Ⓜ St. Mary's Carbon Co., State Rd., St. Marys, Pa.
- Ⓜ Speer Carbon Co., Lincoln Ave., St. Marys, Pa.
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.

RINGS—Collector

- Ⓜ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓜ Baldwin Locomotive Works, Philadelphia 42, Pa.
- Ⓜ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓜ Kent Co., F. C., 64-72 Howard St., Irvington, N. J.
- Ⓜ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.

RINGS—Oil Sealing

- Ⓜ Amplex Division, Chrysler Corp., Detroit 31, Mich.
- Ⓜ Armstrong Cork Co., Lancaster, Pa.
- Ⓜ Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill. Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Ⓜ Garlock Packing Co., Palmyra, N. Y.
- Ⓜ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓜ Johns-Manville, 22 E. 40th St., New York 16, N. Y.
- Ⓜ Pure Carbon Co., St. Marys, Pa.

RINGS—Retaining

- Ⓜ Barnes-Gibson-Raymond Div. of Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.
- Ⓜ Cuyahoga Spring Co., 10272 Berea Rd., Cleveland, Ohio. Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Ⓜ Garrett Co., Inc., George K., D and Tioga Sts., Philadelphia 34, Pa.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓜ Grammes & Sons Inc., L. F., 389 Union St., Allentown 2, Pa.
- Ⓜ National Lock Washer Co., 40 Hermon St., Newark 5, N. J.
- Ⓜ Walides Kohinoor Inc., 47-16 Austel Place, Long Island City 1, N. Y.

RIVETS

- Ⓜ American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
- Ⓜ Atlas Tack Corp., Pleasant St., Fairhaven, Mass.
- Ⓜ Autoscrew Co., 216-222 W. 18th St., New York, N. Y.
- Ⓜ BLAKE & JOHNSON CO., Waterville 48, Conn. ADV. PG. 223.
- Ⓜ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓜ Cherry Rivet Co., 231 Winston St., Los Angeles 13, Calif.

- Ⓜ Chicago Rivet & Machine Co., 9600 W. Jackson Blvd., Chicago, Ill.
- Ⓜ du Pont de Nemours & Co., Inc., E. I., Wilmington, Delaware.
- Ⓜ FEDERAL SCREW PRODUCTS INC., 224 Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Gries Reproducer Corp., 100 Willow Ave., New York 54, N. Y.
- Ⓜ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Ⓜ Hassall Inc., John, Clay & Oakland Sts., Brooklyn 22, N. Y.
- Ⓜ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓜ Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- Ⓜ Milford Rivet & Machine Co., Milford, Conn.
- Ⓜ National Screw & Mfg. Co., The, Cleveland 4, Ohio.
- Ⓜ Progressive Mfg. Co., 50 Norwood St., Torrington, Conn.
- Ⓜ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓜ Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
- Tubular Rivet & Stud Co., Wallaston 70, Mass.
- Ⓜ United Shoe Machinery Corp., 142 Federal St., Boston, Mass.

RUBBER

See Insulation Materials

RUBBER—Conductive

See Insulation Materials

ROOMS—Screen

- Ⓜ ACE ENGINEERING & MACHINE CO., INC., 3642 N. Lawrence St., Philadelphia 40 Pa. ADV. PG. 271.

SCALES—Oscilloscope

- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓜ Millen Mfg., Co., James, 150 Exchange St., Malden, Mass.
- Printloid Inc., 95 Mercer St., New York, N. Y.
- Ⓜ Supreme, Inc., Greenwood, Miss.
- Ⓜ WATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.

SCANNERS—Reflected & Transmitted Light

- Ⓜ Acme Teletronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- Ⓜ Airlectron, Inc., P. O. Box 151 Caldwell, N. J.
- Ⓜ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓜ Fisher-Pierce Co., Inc., 70 Ceylon St., Boston 21, Mass.
- Ⓜ Hogan Laboratories, Inc., 155 Perry St., New York 14, N. Y.
- Ⓜ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓜ McElroy Mfg. Corp., Littleton, Mass.
- Ⓜ O'Connor & Co., John T., West Orange, N. J.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- Ⓜ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓜ TIMES FACSIMILE CORP., 223 W. 43rd St., New York 18, N. Y. ADV. PG. 50.

SCRAMBLERS—Speech

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.

SCREENS—Television Projection

- Ⓜ Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.

SCREWS

- Ⓜ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓜ ALLEN MFG. CO., Hartford, Conn. ADV. PG. 80.
- Ⓜ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Ⓜ Aluminum Co. of America, Gulf Bldg., Pittsburg, Pa.
- Ⓜ American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓟ American Screw Co., Willimantic, Conn.
- Ⓟ Autoscrew Co., 216-222 W. 18th St., New York, N. Y.
- Ⓟ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓟ BLAKE & JOHNSON CO., Waterville 48, Conn. ADV. PG. 223.
- Ⓟ Bristol Co., The, Waterbury 20, Conn.
- Ⓟ Central Screw Co., 3501 Shields Ave., Chicago 9, Ill.
- Ⓟ Chandler Products Co., 1491 Chardon Rd., Cleveland, Ohio.
- Ⓟ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓟ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Ⓟ Continental Screw Co., New Bedford, Mass.
- Ⓟ Corbin Screw Div., American Hardware Corp., High, Myrtle & Grove Sts., New Britain, Conn.
- Ⓟ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓟ Berner Co., R. Y., 110 Pleasant St., Malden, Mass.
- Ⓟ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓟ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Ⓟ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓟ Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- Ⓟ Milford Rivet & Machine Co., Milford, Conn.
- Ⓟ Morris Co., J. I., 394 Elm St., Southbridge, Mass.
- Ⓟ National Screw & Mfg. Co., The, Cleveland 4, Ohio.
- Ⓟ Parker-Kalon Corp., 200 Varick St., New York 14, N. Y.
- Ⓟ Pheoil Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
- Ⓟ Pilgrim Mfg. Co., 155 Chestnut St., Providence, R. I.
- Ⓟ PRECISION METAL PRODUCTS CO. OF MALDEN, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- Ⓟ Progressive Mfg. Co., 50 Norwood St., Torrington, Conn.
- Ⓟ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓟ Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
- Ⓟ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓟ South River Metal Products Co., South River, N. J.
- Ⓟ Standard Pressed Steel Co., Jenkintown 10, Pa.
- Ⓟ Stronghold Screw Products, Inc., 216-222 W. Hubbard St., Chicago 10, Ill.
- Ⓟ United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.
- Ⓟ Vallorbs Jewel Co., Lancaster, Pa.
- Ⓟ Waltham Screw Co., 77 Rumford Ave., Waltham, Mass.
- Ⓟ York Materials Co., Inc., P. O. Box 510, Jamaica, N. Y.

SCREWS—Self-Tapping

- Ⓟ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Ⓟ American Screw Co., Willimantic, Conn.
- Ⓟ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓟ BLAKE & JOHNSON CO., Waterville 48, Conn. ADV. PG. 223.
- Ⓟ Central Screw Co., 3501 Shields Ave., Chicago 9, Ill.
- Ⓟ Continental Screw Co., New Bedford, Mass.
- Ⓟ Corbin Screw Div., American Hardware Corp., High, Myrtle & Grove Sts., New Britain, Conn.
- Ⓟ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓟ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓟ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Ⓟ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓟ Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- Ⓟ Milford Rivet & Machine Co., Milford, Conn.
- Ⓟ National Screw & Mfg. Co., The, Cleveland 4, Ohio.
- Ⓟ Parker-Kalon Corp., 200 Varick St., New York 14, N. Y.
- Ⓟ Pheoil Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
- Ⓟ Pilgrim Mfg. Co., 155 Chestnut St., Providence, R. I.
- Ⓟ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓟ Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
- Ⓟ Shakeproof Inc., Div. of Illinois Tool Wks., 2501 N. Keeler Ave., Chicago 39, Ill.
- Ⓟ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓟ Southington Hardware Mfg. Co., Southington, Conn.
- Ⓟ Stronghold Screw Products, Inc., 216-222 W. Hubbard St., Chicago 10, Ill.
- Ⓟ United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.

SCREWS—Set

- Ⓟ ALLEN MFG. CO., Hartford, Conn. ADV. PG. 80.
- Ⓟ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- Ⓟ American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
- Ⓟ Autoscrew Co., 216-222 W. 18th St., New York 11, N. Y.
- Ⓟ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.

- Ⓟ Bristol Co., The, Waterbury 20, Conn.
- Ⓟ Central Screw Co., 3501 Shields Ave., Chicago 9, Ill.
- Ⓟ Corbin Screw Div., American Hardware Corp., High, Myrtle & Grove Sts., New Britain, Conn.
- Ⓟ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓟ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓟ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Ⓟ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓟ Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- Ⓟ Moore Inc., George W., 100 Beaver St., Waltham, Mass.
- Ⓟ National Screw & Mfg. Co., The, Cleveland 4, Ohio.
- Ⓟ Parker-Kalon Corp., 200 Varick St., New York 14, N. Y.
- Ⓟ Pheoil Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
- Ⓟ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓟ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓟ Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
- Ⓟ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓟ Standard Pressed Steel Co., Jenkintown 10, Pa.
- Ⓟ Stronghold Screw Products, Inc., 216-222 W. Hubbard St., Chicago 10, Ill.
- Ⓟ United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.
- Ⓟ Waltham Screw Co., 77 Rumford Ave., Waltham, Mass.

SEALS—Carbon

- Ⓟ Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
- Ⓟ Electro-Nite Carbon Co., 1133 E. Columbia Ave., Philadelphia 25, Pa.
- Ⓟ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓟ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- Ⓟ Pure Carbon Co., St. Marys, Pa.
- Ⓟ St. Mary's Carbon Co., State Road, St. Marys, Pa.
- Ⓟ Sealor Corp., 45 Willard Ave., Providence 5, R. I.
- Ⓟ Spector Carbon Co., Lincoln Ave., St. Marys, Pa.
- Ⓟ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓟ U. S. Graphite Co., Saginaw, Mich.

SEALS—Hermetic

- Ⓟ AMERICAN TELEVISION & RADIO CO., 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- Ⓟ CENTRAL DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓟ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓟ Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
- Ⓟ ELECTRICAL INDUSTRIES, INC., 44 Summer Ave., Newark 4, N. J. ADV. PG. 217.
- Ⓟ Electronic Mechanics Inc., 70 Clifton Blvd., Clifton, N. J.
- Ⓟ ELECTRO-SEAL CORP., 946 Lee St., Des Plaines, Ill. ADV. PG. 90.
- Ⓟ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓟ Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
- Ⓟ Fusite Corp., Carthage at Hannaford, Cincinnati 12, Ohio.
- Ⓟ GENERAL CERAMICS & SEATITE CORP., Keasbey, N. J. ADV. PG. 219.
- Ⓟ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- Ⓟ HERMETIC SEAL PRODUCTS CO., 29-37 South 6th St., Newark 7, N. J. ADV. PG. 264.
- Ⓟ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
- Ⓟ Sperti Inc., Cincinnati 12, Ohio.
- Ⓟ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 166, 167.
- Ⓟ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.
- Ⓟ Wheaton Co., T. C., Industrial Division, 220 G St., Millville, N. J.
- Ⓟ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

SEALS—Metal-to-Glass

- Ⓟ Armstrong Cork Co., Lancaster, Pa.
- Ⓟ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Ⓟ Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd. W., Rochester 3, N. Y.
- Ⓟ Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
- Ⓟ ELECTRICAL INDUSTRIES, INC., 44 Summer Ave., Newark 4, N. J. ADV. PG. 217.
- Ⓟ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓟ Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
- Ⓟ Fusite Corp., Carthage at Hannaford, Cincinnati 12, Ohio.

- Ⓟ HERMASEAL CO., INC., Riverside Drive, Elkhart, Ind. ADV. PG. 264.
- Ⓟ HERMETIC SEAL PRODUCTS CO., 29-37 South 6th St., Newark, N. J. ADV. PG. 87.
- Ⓟ Litton Industries, San Carlos, Calif.
- Ⓟ MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Ⓟ Radiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
- Ⓟ Sperti Inc., Cincinnati 12, Ohio.
- Ⓟ STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 166, 167.
- Ⓟ Varian Associates, 99 Washington St., San Carlos, Calif.
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓟ Wheaton Co., T. C., Industrial Div., 220 G St., Millville, N. J.
- Ⓟ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

SEALS—Oil

- Ⓟ Armstrong Cork Co., Lancaster, Pa.
- Ⓟ Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
- Ⓟ Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Ⓟ Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
- Ⓟ Garlock Packing Co., Palmyra, N. Y.
- Ⓟ General Tire & Rubber Co., The, Sifentloc Div., Wabash, Ind.
- Ⓟ GRAPHITE METALLIZING CORP., 1041 Nepperhan Ave., Yonkers 3, N. Y. ADV. PG. 76.
- Ⓟ Helder Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- Ⓟ Johns-Manville, 22 E. 40th St., New York 16, N. Y.
- Ⓟ Sealor Corp., 45 Willard Ave., Providence 5, R. I.
- Ⓟ U. S. Graphite Co., Saginaw, Mich.
- Ⓟ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

SELECTIVE CALLING APPARATUS

- Ⓟ American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓟ Autocall Co., The, Shelby, Ohio.
- Ⓟ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓟ Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- Ⓟ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓟ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓟ Stevens-Arnold, Inc., 22 Elkins St., South Boston 27, Mass.

SERVOMECHANISMS

See Controls, Servo

SHAFTS

- Ⓟ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓟ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Ⓟ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓟ Johnson Co., E. F. Waseca, Minn.
- Ⓟ Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- Ⓟ National Screw & Mfg. Co., Cleveland 4, Ohio.
- Ⓟ Piezo Mfg. Corp., 110 E. 42nd St., New York 17, N. Y.
- Ⓟ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓟ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.

SHAFTS—Flexible

- Ⓟ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓟ BREEZE CORPNS., INC., 41 S. Sixth St., Newark 7, N. J. ADV. PG. 93.
- Ⓟ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓟ Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
- Ⓟ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓟ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓟ Johnson Co., E. F., Waseca, Minn.
- Ⓟ Kupfrian Mfg. Co., 350 State St., Binghamton, N. Y.
- Ⓟ Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- Ⓟ STEWART MFG. CORP., F. W., 4311 Ravenswood Ave., Chicago 13, Ill. ADV. PG. 104.
- Ⓟ Stow Mfg. Co., 445 State St., Binghamton, N. Y.
- Ⓟ White Dental Mfg. Co., S. S., Industrial Div., 10 E. 40th St., New York, N. Y.

SHAPERS—Television Signal

- Ⓟ Telequip Radio Co., 1901 S. Washtenaw, Chicago, Ill.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

SHIELDING—Electrostatic

- Ⓞ Achson Colloids Corp., Port Huron, Mich.
- Ⓞ **CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓞ Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
- Ⓞ Kupfrian Mfg. Co., 350 State St., Binghamton, N. Y.
- Ⓞ Metal Textile Corp., 647 E. First Ave., Roselle, N. J.
- Ⓞ Sisakraft Co., The, 205 W. Wacker Drive, Chicago 6, Ill.
- Ⓞ Uniform Tubes, Shurs Lane & Larviston St., Roxborough, Philadelphia, Pa.

SHIELDING—Radio Ignition

- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓞ **BOSCON INSULATED WIRE & CABLE CO.**, 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓞ **BREEZE CORPNS, INC.**, 41 S. Sixth St., Newark 7, N. J. ADV. PG. 93.
- Ⓞ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓞ Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
- Ⓞ Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
- Ⓞ Flexa Wire Co., Inc., 70 W. First St., Oswego, N. Y.
- Ⓞ Hallatt Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓞ Kupfrian Mfg. Co., 350 State St., Binghamton, N. Y.
- Ⓞ Metal Textile Corp., 647 E. First Ave., Roselle, N. J.
- Ⓞ New England Electrical Works, Lisbon, N. H.
- Ⓞ Uniform Tubes, Shurs Lane and Larviston St., Roxborough, Philadelphia, Pa.

SHIELDING—Sheet or Screen

- Ⓞ Metal Textile Corp., 647 E. First Ave., Roselle, N. J.
- Ⓞ Sisakraft Co., The, 205 W. Wacker Drive, Chicago 6, Ill.

SHIELDS—Cathode Ray Tube

- Ⓞ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓞ **ELECTRONIC TUBE CORP.**, 1200 E. Mermaid Lane, Philadelphia 18, Pa. ADV. PG. 156.
- Ⓞ Magnetic Metals Co., Hayes Ave. at 21st St., Camden, N. J.
- Ⓞ Magnetics, Inc., P. O. Box 761, Butler, Pa.
- Ⓞ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓞ **MULTI METAL WIRE CLOTH CO., INC.**, 1350 Garrison Ave., New York 59, N. Y. ADV. PG. 66.
- Ⓞ **WATERMAN PRODUCTS CO., INC.**, 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.

SHIELDS—Coil

- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ Hallatt Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓞ **INSULINE CORP. OF AMERICA, 36-02 35th Ave.**, Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓞ **KOBZY TOOL CO.**, 1535 N. Dayton Ave., Chicago 22, Ill. ADV. PG. 165.
- Ⓞ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓞ Millen Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓞ Paul & Beekman Inc., 1801 Cortland St., Philadelphia 40, Pa.
- Ⓞ Worcester Pressed Aluminum Corp., 13-15 Hope Avenue, Worcester 3, Mass.

SHIELDS—Lead

- Ⓞ Anchor Metal Co., 87 Walker St., New York 13, N. Y.
- Ⓞ **ATOMIC INSTRUMENT CO.**, 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓞ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓞ Chicago Expansion Bolt Co., 1338 Concord Pl., Chicago 22, Ill.
- Ⓞ Hallatt Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓞ Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
- Ⓞ Technical Associates, 3730 San Fernando Rd., Glendale, Calif.
- Ⓞ Vitamite Co., 227 W. 46th St., New York 23, N. Y.

SHIELDS—Transformer

- Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- Ⓞ Industrial Precision Products Co., 315-325 N. Hoeyne Ave., Chicago 12, Ill.
- Ⓞ Kling Metal Spinning Co., 174 Centre St., New York 13, N. Y.
- Ⓞ Magnetic Metals Co., Hayes Ave., & 21st St., Camden, N. J.
- Ⓞ Magnetics, Inc., P. O. Box 761, Butler, Pa.
- Ⓞ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 300 W. Huron St., Chicago 10, Ill.

- Ⓞ Triad Transformer Mfg. Co., 2254 Sepulveda, Blvd., Los Angeles 64, Calif.
- Ⓞ Worcester Pressed Aluminum Corp., 13-15 Hope Avenue, Worcester 3, Mass.

SHIELDS—Tube

- Ⓞ **ALDEN PRODUCTS CO.**, 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓞ **ATOMIC INSTRUMENT CO.**, 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓞ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ **CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓞ Eby, Inc., Hugh H., 4700 Stenton Ave., Phila. 44, Pa.
- Ⓞ Elco Mfg. Co., Div. of Electro-Connector Corp., 110 W. Oxford St., Phila. 22, Pa.
- Ⓞ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓞ Goat Co., Inc., Fred, 314 Dean St., Brooklyn, N. Y.
- Ⓞ Industrial Precision Products Co., 315-325 N. Hoeyne Ave., Chicago 12, Ill.
- Ⓞ **INSULINE CORP. OF AMERICA, 36-02 35th Ave.**, Long Island City, N. Y. ADV. PG. 246-247.
- Ⓞ **J F D MFG. CO.**, 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓞ Johnson Co., E. F., Waseca, Minn.
- Ⓞ Methode Mfg. Corp., 1733 N. Milwaukee Ave., Chicago 47, Ill.
- Ⓞ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓞ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- Ⓞ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓞ **STAVER CO., INC.**, 91 Pearl St., Brooklyn 1, N. Y. ADV. PG. 180.
- Ⓞ Worcester Pressed Aluminum Corp., 13-15 Hope Avenue, Worcester 3, Mass.

SHIFTER—Signal

- Ⓞ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.

SHUNTS—Meter

- Ⓞ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- Ⓞ Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.
- Ⓞ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- Ⓞ **CLAROSTAT MFG. CO., INC.**, Dover, N. H. ADV. PG. 227.
- Ⓞ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓞ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓞ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓞ **INSTRUMENT RESISTORS CO.**, 1036 Commerce Ave., Union, N. J. ADV. PG. 174, 175.
- Ⓞ **MARION ELECTRICAL INSTRUMENT CO.**, Manchester, N. H. ADV. PG. 130.
- Ⓞ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Ⓞ Precision Resistor Co., 334 Badger Ave., Newark 8, N. J.
- Ⓞ Roller-Smith, Bethlehem, Pa.
- Ⓞ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓞ **SHALLCROSS MFG. CO.**, 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓞ Simpson Electric Co., Div. American Gage & Machine Co., 5208 W. Kinzie Street, Chicago 44, Ill.
- Ⓞ Triplett Electric Instrument Co., 286 Harmon Road, Bluffton, Ohio.
- Ⓞ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- Ⓞ **WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓞ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

SIGNAL SHIFTER

See Shifter, Signal

SILICON

See Metals

SILICONE—Compounds

See Insulating Compounds

SLEEVES—Antenna Copper Splicing

- Ⓞ Copperweld Steel Co., Glassport, Pa.
- Ⓞ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓞ Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.

SOCKETS—Battery

- Ⓞ **ALDEN PRODUCTS CO.**, 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓞ **CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓞ Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ Elco Mfg. Co. Div. of Electro-Connector Corp., 110 W. Oxford Ave., Phila. 22, Pa.
- Ⓞ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓞ **J F D MFG. CO.**, 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓞ **MYCALEX TUBE SOCKET CORP.**, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 161.

SOCKETS—Crystal

- Ⓞ **CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓞ Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- Ⓞ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓞ Isolantite Mfg. Corp., Stirling, N. J.
- Ⓞ Johnson Co., E. F., Waseca, Minn.
- Ⓞ Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- Ⓞ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓞ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓞ **MYCALEX TUBE SOCKET CORP.**, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 161.
- Ⓞ **NATIONAL CO., INC.**, 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

SOCKETS—Dial and Pilot Light

- Ⓞ **AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓞ **ALDEN PRODUCTS CO.**, 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓞ **DIAL LIGHT COMPANY OF AMERICA, INC.**, 900 Broadway, New York 3, N. Y. ADV. PG. 50.
- Ⓞ Drake Mfg. Co., 1713 Hubbard St., Chicago, Ill.
- Ⓞ **FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓞ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓞ Johnson Co., E. F., Waseca, Minn.
- Ⓞ Kulkka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
- Ⓞ Marco Industries Co., 210 S. Clementine, Anaheim, Calif.
- Ⓞ Micarta Fabricators, Inc., 5324 Ravenswood Ave., Chicago 40, Ill.
- Ⓞ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓞ Morse Co., Frank W., 1300 Soldiers Rd., Boston 35, Mass.
- Ⓞ **MYCALEX TUBE SOCKET CORP.**, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 161.
- Ⓞ Ucinite Co., Div. of United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
- Ⓞ Wade Electric Products Co., 211 Jacob St., Sturgis, Mich.

SOCKETS—Microwave Tube

- Ⓞ **AMERICAN PHENOLIC CORPORATION**, 1830 S. 54th Ave., Chicago 54, Ill. ADV. PG. 191.
- Ⓞ **CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓞ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓞ **MYCALEX TUBE SOCKET CORP.**, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 161.
- Ⓞ **RAYTHEON MFG. CO.**, Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.

SOCKETS—Miniature Sockets & Connectors

- Ⓞ **ALDEN PRODUCTS CO.**, 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓞ **AMERICAN PHENOLIC CORPORATION**, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓞ **CENTRALAB DIV. OF GLOBE UNION INC.**, 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓞ **CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Ⓞ Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
- Ⓞ **DIAL LIGHT CO. OF AMERICA**, 900 Broadway, New York 3, N. Y. ADV. PG. 50.
- Ⓞ Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- Ⓞ Elco Mfg. Co. Div. of Electro-Connector Corp., 110 W. Oxford St., Phila. 22, Pa.
- Ⓞ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓞ **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓂHaft & Sons Inc., 79 Third St., Brooklyn 31, N. Y.
- ⓂHallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- ⓂINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓂJohnson Co., E. F., Waseca, Minn.
- ⓂJONES DIV., HOWARD B., CINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- ⓂMethode Mfg. Corp., 1733 N. Milwaukee Ave., Chicago 47, Ill.
- ⓂMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓂMorse Co., Frank W., 1300 Soldiers Rd., Boston 35, Mass.
- ⓂMYCALEX TUBE SOCKET CORP., 60 Clifton Blvd., Clifton, N. J. ADV. PG. 161.
- ⓂNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓂRemler Co., Ltd., 2101 Bryant St., San Francisco, Calif.
- Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ⓂStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓂVector Electronic Co., 1101 Riverside Drive, Los Angeles 31, Calif.

SOCKETS—Tube

- ⓂALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- ⓂAMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- ⓂBunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ⓂCENTRAL DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- ⓂCINCH MFG. CORP., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- ⓂEitel-McCullough, Inc., San Bruno, California.
- ⓂElco Mfg. Co. Div. of Electro-Connector Corp., 110 W. Oxford St., Phila. 22, Pa.
- ⓂFEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- ⓂFranklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- ⓂGENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓂGENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ⓂINSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓂIsolantite Mfg. Corp., Stirling, N. J.
- ⓂJ F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- ⓂJohnson Co., E. F., Waseca, Minn.
- ⓂMethode Mfg. Corp., 1733 N. Milwaukee Ave., Chicago 47, Ill.
- ⓂMillen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ⓂMolded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- ⓂMYCALEX TUBE SOCKET CORP., 60 Clifton Blvd., Clifton, N. J. ADV. PG. 161.
- ⓂNATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- ⓂNetwork Mfg. Corp., Bayonne, N. J.
- ⓂPhilmore Mfg. Co., 113 University Place, New York 3, N. Y.
- ⓂRemler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.
- ⓂUcinite Co., Div. of United-Carr Fastener Corp., 459 Water-town St., Newtonville, Mass.
- ⓂVector Electronic Co., 1101 Riverside Drive, Los Angeles 31, Calif.

SOLDER

- ⓂAluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
- ⓂAlpha Metals, Inc., 363 Hudson Ave., Brooklyn 1, N. Y.
- ⓂAnchor Metal Co., 87 Walker St., New York 13, N. Y.
- ⓂBrach Mfg. Corp., 200 Central Ave., Newark 4, N. J.
- ⓂCerro de Pasco Copper Corp., 40 Wall St., New York 5, N. Y.
- ⓂChase Brass & Copper Co., Inc., Waterbury 91, Conn. Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- ⓂEnthoven & Sons Ltd., H. J., London, England.
- ⓂEsser, Maurice H., 113 N. Water St., Rochester 4, N. Y.
- Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
- ⓂFarrelly Co., 1245 N. 26th St., Philadelphia 21, Pa.
- ⓂFederated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- ⓂGLASER LEAD CO., INC., 31 Wyckoff Ave., Brooklyn, N. Y. ADV. PG. 251.
- ⓂKESTER SOLDER CO., 4212 Wrightwood Ave., Chicago 33, Ill. ADV. PG. 267.
- ⓂLenk Mfg. Co., 30 Cummington St., Boston 15, Mass.
- ⓂMAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- ⓂMulticore Sales Corp., 164 Duane St., New York 13, N. Y.
- ⓂNational Lead Co., 111 Broadway, New York 6, N. Y.

- ⓂNew York Solder Co., 684 E. 133rd St., New York 54, N. Y.
- ⓂRuby Chemical Co., 68 McDowell St., Columbus 1, Ohio.
- ⓂRyerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.
- ⓂSoldering Specialties Co., Summit, N. J.
- ⓂStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ⓂSuper Flow Solder Co., Inc., 90 State St., Albany, N. Y.
- ⓂWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SOLDER—Aluminum

- ⓂDivision Lead Co., 836 W. Kinzie St., Chicago 22, Ill. Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- ⓂFarrelly Co., 1245 N. 26th St., Philadelphia 21, Pa.
- ⓂFederated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
- Johnson Mfg. Co., Inc., Mount Vernon, Iowa.
- ⓂKESTER SOLDER CO., 4212 Wrightwood Ave., Chicago 33, Ill. ADV. PG. 267.
- ⓂLenk Mfg. Co., 30 Cummington St., Boston 15, Mass.
- ⓂSoldering Specialties Co., Summit, N. J.

SOLDER—Platinum

- ⓂAMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- ⓂBaker & Co., Inc., 113 Astor St., Newark 5, N. J.
- ⓂCOHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- ⓂDivision Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- ⓂHandy & Harman, 82 Fulton St., New York 7, N. Y.
- ⓂNEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- ⓂWildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

SOLDER—Rings and Preforms

- ⓂAlpha Metals, Inc., 363 Hudson Ave., Brooklyn 1, N. Y.
- ⓂAMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- ⓂAnchor Metal Co., 87 Walker St., New York 13, N. Y.
- ⓂDivision Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- ⓂEastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
- ⓂGLASER LEAD CO., INC., 31 Wyckoff Ave., Brooklyn, N. Y. ADV. PG. 251.
- ⓂHandy & Harman, 82 Fulton St., New York 7, N. Y.
- ⓂKESTER SOLDER CO., 4212 Wrightwood Ave., Chicago 33, Ill. ADV. PG. 267.
- Krieg & Co., Charles W., 52 Dickerson St., Newark, N. J.
- ⓂMAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- ⓂMULTICORE SALES CORP., 164 Duane St., New York 13, N. Y. ADV. PG. 21.
- ⓂNational Lead Co., 111 Broadway, New York 6, N. Y.
- ⓂNEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- ⓂSoldering Specialties Co., Summit, N. J.

SOLDER—Silver

- ⓂAMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
- ⓂAnchor Metal Co., 87 Walker St., New York 13, N. Y.
- ⓂBaker & Co., Inc., 113 Astor St., Newark 5, N. J.
- ⓂChase Brass & Copper Co., Inc., Waterbury 91, Conn.
- ⓂDivision Lead Co., 836 W. Kinzie St., Chicago 22, Ill. Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.
- ⓂEastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
- ⓂFarrelly Co., 1245 N. 26th St., Philadelphia 21, Pa.
- ⓂGENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- ⓂHandy & Harman, 82 Fulton St., New York 7, N. Y.
- ⓂMAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- ⓂNEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- ⓂSoldering Specialties Co., Summit, N. J.
- ⓂWildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

SOLDERING GUNS

See Tools, Soldering Guns

SOLDERING IRONS—Electric

See Irons, Electric Soldering

SOLENOIDS

- ⓂA. P. W. Co., 72 W. Main St., Rockaway, N. J.
- ⓂAdel Precision Products Corp., 10777 Van Owen St., Burbank, Calif.
- ⓂAurex Corp., 1117 N. Franklin St., Chicago, Ill.
- ⓂAutomatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Bittermann Electric Co., Box 665, Canaan, Conn.
- ⓂBOND ELECTRONICS CORP., 88 Franklin Place, Summit, N. J. ADV. PG. 250.
- ⓂCannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.
- ⓂConnecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- ⓂDavis & Co., Dean W., Kentland, Ind.
- ⓂEASTERN AIR DEVICES, INC., 585 Dean St., Brooklyn 17, N. Y. ADV. PG. 258.
- Electro-Aire, Inc., 11439 Vanowen St., North Hollywood, Calif.
- ⓂGeneral Controls Co., Glendale 1, Calif.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂGUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31.
- ⓂHercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
- ⓂHOULIHAN CO., T. J., 2508-14 W. Lawrence St., Chicago 25, Ill. ADV. PG. 276.
- ⓂMcQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
- ⓂMagnavox Co., The Components Div., Fort Wayne 4, Indiana.
- Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- ⓂNational Acme Co., 176 E. 131st St., Cleveland 8, Ohio.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- ⓂPHILLIPS CONTROL CORP., 84 W. Jefferson St., Joliet, Ill. ADV. PG. 230.
- ⓂR. B. M. Div., Essex Wire Corp., Logansport, Ind.
- ⓂRADIO CORES, INC., 9540 Tully Ave., Oak Lawn, Ill. ADV. PG. 260.
- ⓂRoebing's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S. Pasadena, Calif.
- ⓂSTANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- ⓂStandard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
- ⓂWheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

SOLENOIDS—Rotary

- ⓂDavis & Co., Dean W., Kentland, Ind.
- ⓂGENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓂLELAND, INC., G. H., 125 Webster St., Dayton 2, Ohio. ADV. PG. 246, 247.

SONIC LOCATING EQUIPMENT

- ⓂRacon Electric Co., 52 E. 19th St., New York 3, N. Y.
- ⓂRAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ⓂTriplett & Barton, Inc., 831 N. Lake St., Burbank, Calif.

SORTERS—Electronic

See Controls—Counting & Sorting

SOUND SYSTEMS—Complete

- ⓂAllied Radio Corp., 833 W. Jackson Blvd., Chicago 7, Ill.
- ⓂAlltec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- ⓂAmerican Communications Corp., 306 Broadway, New York 7, N. Y.
- ⓂBARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Arlington Electric Products, Inc., 500 W. 52nd St., New York 19, N. Y.
- ⓂBell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio.
- ⓂBoom Electric & Amplifier Co., 1227 W. Washington Blvd., Chicago 7, Ill.
- ⓂCommercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.
- ⓂGalbraith & Son, Inc., C. C., 450-54 Avenue of the Americas, New York 11, N. Y.
- ⓂDilks Co., The Seymour, Conn.
- ⓂExecutone, Inc., 415 Lexington Ave., New York 17, N. Y.
- ⓂGale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- ⓂGates Radio Co., Quincy, Ill.
- Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.
- ⓂNational Intercommunicating Systems, 1531 Devon Ave., Chicago 26, Ill.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
- Ⓜ Precision Electronics, 641 Milwaukee Ave., Chicago 42, Ill.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ Radio-Music Corp., Port Chester, N. Y.
- Ⓜ Rauland-Borg Corp., 3523 W. Addison St., Chicago 18, Ill.
- Ⓜ Riggs & Jeffreys, Inc., 140 Glenridge Ave., Montclair, N. J.
- Ⓜ Schilmerich Electronics, Inc., Sellersville, Pa.
- Ⓜ Seeburgh Corp., J. P., 1500 N. Dayton Ave., Chicago 22, Ill.
- Ⓜ Shelton Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Stephens Mfg. Corp., 8538 Warner Drive, Culver City, Calif.
- Ⓜ Western Sound & Electric Labs., Inc., 805 S. 5th St., Milwaukee 4, Wis.

SOURCES—Alpha Ray

- Ⓜ Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.
- Ⓜ Technical Associates, 3730 San Fernando Rd., Glendale 4, Calif.
- Ⓜ U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

SPEAKERS

See Loudspeakers

SPECTROMETERS—Mass

- Ⓜ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa. Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓜ Vacuum Electronic Engineering Co., 316 37th St., Brooklyn 2, N. Y.

SPECTROMETERS and SPECTROGRAPHS

- Ⓜ Applied Research Laboratories, 4336 San Fernando Rd., Glendale 4, Calif.
- Ⓜ Baird Associates, Inc., 33 University Rd., Cambridge 38, Mass.
- Ⓜ Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- Ⓜ Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Ⓜ Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- Ⓜ Gaertner Scientific Corp., 1201 Wrightwood Ave., Chicago 14, Ill.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓜ Jarrell-Ash Co., 165 Newbury St., Boston 16, Mass.
- Ⓜ North American Phillips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓜ Perkin-Elmer Corp., The, Glenbrook, Conn.
- Ⓜ Varian Associates, 99 Washington St., San Carlos, Calif.
- Ⓜ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

SPECTROPHOTOMETERS

- Ⓜ Applied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
- Ⓜ Baird Associates, Inc., 33 University Rd., Cambridge 38, Mass.
- Ⓜ Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- Ⓜ Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- Ⓜ Coleman Instruments, Inc., 318 Madison St., Maywood, Ill.
- Ⓜ Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- Ⓜ Gaertner Scientific Corp., 1201 Wrightwood Ave., Chicago 14, Ill.
- Ⓜ Gardner Lab., Inc., Henry A., 4723 Elm St., Bethesda 14, Md.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓜ Jarrell-Ash Co., 165 Newbury St., Boston 16, Mass.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
- Ⓜ Perkin-Elmer Corp., The, Glenbrook, Conn.
- Ⓜ Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
- Ⓜ Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

SPECTROSCOPIC SOURCE UNITS

- Ⓜ Applied Research Labs., 4336 San Fernando Rd., Glendale 4, Calif.
- Ⓜ Baird Associates, Inc., 33 University Ave., Cambridge 38, Mass.
- Ⓜ Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
- Ⓜ Jarrell-Ash Co., 165 Newbury St., Boston 16, Mass.
- Ⓜ National Spectrographic Laboratories, Inc., 6300 Euclid Ave., Cleveland 3, Ohio.

SPEEDOMETERS—Electric

- Ⓜ AMERICAN CHRONOSCOPE CORP., 316 W. First St., Mt. Vernon, N. Y. ADV. PG. 84.
- Ⓜ C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Electric Tachometer Corp., 2218 Vine St., Philadelphia 3, Pa.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Westberg Mfg. Co., 612 N. Michigan Ave., Chicago 11, Ill.

SPRINGS

- Ⓜ Accurate Spring Mfg. Co., 3811 W. Lake St., Chicago, Ill.
- Ⓜ Ace Spring Mfg. Co., 77 W. Houston St., New York 12, N. Y.
- Ⓜ All Weather Springs, 140 Cedar St., New York 6, N. Y.
- Ⓜ Barnes-Gibson-Raymond Div. of Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.
- Ⓜ Cuyahoga Spring Co., 10272 Berea Rd., Cleveland, Ohio.
- Ⓜ Dzus Fastener Co., Inc., Box 785, Babylon, N. Y.
- Ⓜ Garrett Co., Inc., George K., D & Tioga Sts., Philadelphia 34, Pa.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓜ Hubbard Spring Co., M. D., Central Ave., Pontiac, Mich.
- Ⓜ Hunter Spring Co., Lansdale, Pa.
- Ⓜ INSTRUMENT SPECIALTIES CO. INC., 254 Bergen Blvd., Little Falls, N. J. ADV. PG. 202.
- Ⓜ Jones Spring Co., W. B., 124 E. 7th St., Cincinnati, Ohio.
- Ⓜ Peck Spring Co., 9 King St., Plainville, Conn.
- Ⓜ Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
- Ⓜ Reliable Spring & Wire Forms Co., Fulton Rd. & Paris Ave., Cleveland 9, Ohio.
- Ⓜ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓜ U. S. Steel Wire Spring Co., 7800 Finney Ave., Cleveland 5, Ohio.
- Ⓜ WEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.
- Ⓜ Wickwire Spencer Steel Div., The, Colorado Fuel and Iron Corp., The, 500 Fifth Avenue, New York 18, N. Y.

SPRINGS—Antenna Tension

- Ⓜ Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
- Ⓜ Barnes-Gibson-Raymond Div., Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.
- Ⓜ Raymond Mfg. Co. Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
- Ⓜ Reliable Spring & Wire Forms Co., Fulton Rd. & Paris Ave., Cleveland 9, Ohio.
- Ⓜ Ward Products Corp., Div. of The Gabriel Corp., 1523 E. 45th St., Cleveland 3, Ohio.
- Ⓜ WEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.

SPRINGS—Instrument Hairsprings

- Ⓜ Barnes-Gibson-Raymond Div., Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.
- Ⓜ Precision Products Co., 26 Bedford St., Waltham 54, Mass.
- Ⓜ Raymond Mfg. Co. Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
- Ⓜ U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.

SPRINGS—Precision

- Ⓜ Accurate Spring Mfg. Co., 3811 W. Lake St., Chicago, Ill.
- Ⓜ Barnes-Gibson-Raymond Div., Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.
- Ⓜ Chatillon & Sons, John, 93 Cliff St., New York 7, N. Y.
- Ⓜ Hunter Spring Co., Lansdale, Pa.
- Ⓜ INSTRUMENT SPECIALTIES CO. INC., 254 Bergen Blvd., Little Falls, N. J. ADV. PG. 202.
- Ⓜ Lewis Spring & Mfg. Corp., 2656 W. North Ave., Chicago 47, Ill.

- Ⓜ Raymond Mfg. Co. Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
- Ⓜ Reliable Spring & Wire Forms Co., Fulton Rd. & Paris Ave., Cleveland 9, Ohio.
- Ⓜ WEBSTER SPRING CORP., 176-182 Johnson St., Brooklyn 1, N. Y. ADV. PG. 237, 278.
- Ⓜ Wickwire Spencer Steel Div., The, Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y.

STANDARDS—Capacitance

- Ⓜ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE. Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
- Ⓜ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Greylin Co., Box 258, Chicago 90, Ill.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
- Ⓜ MUIRHEAD & CO., INC., Beckenham-Kent-England. ADV. PG. 71.

STANDARDS—Frequency

- Ⓜ AMERICAN TIME PRODUCTS, INC., 580 Fifth Ave., New York 19, N. Y. ADV. PG. 60.
- Ⓜ Analysis Instrument Co., P. O. Box 231, East Paterson, N. J.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Bassett Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ BLILEY ELECTRIC CO., Union Station Bldg., Erie, Pa. ADV. PG. 136.
- Ⓜ CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓜ FREED TRANSFORMER CO., INC., 1736 Feirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- Ⓜ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓜ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓜ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓜ Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- Ⓜ NORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- Ⓜ PHILAMON LABORATORIES, 5717 Third Ave., Brooklyn 20, N. Y. ADV. PG. 84.
- Ⓜ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Ⓜ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓜ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓜ SPERRY GYROSCOPE CO., Div. of Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.
- Ⓜ Varo Mfg. Co., Inc., Box 638, Garland, Texas.
- Ⓜ Westline Electronics Co., 11660 Olympic Blvd., Los Angeles 25, Calif.

STANDARDS—Gamma Ray

- Ⓜ Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.
- Ⓜ Technical Associates, 3730 San Fernando Rd., Glendale 4, Calif.
- Ⓜ Tracerlab, Inc., 130 High St., Boston 10, Mass.
- Ⓜ U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

STANDARDS—Inductance

- Ⓜ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
- Ⓜ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓜ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.

STANDARDS—Laboratory Time

- Ⓜ AMERICAN CHRONOSCOPE CORP., 316 W. First St., Mt. Vernon, N. Y. ADV. PG. 84.
- Ⓜ AMERICAN TIME PRODUCTS, INC., 580 Fifth Ave., New York 19, N. Y. ADV. PG. 60.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓢ NORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- Ⓢ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓢ Standard Electric Time Co., The, 89 Logan St., Springfield, Mass.
- Ⓢ Varo Mfg. Co., Inc., Box 638, Garland, Texas.

STANDARDS—Resistance

- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓢ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ Greylin Co., Box 258, Chicago 90, Ill.
- Ⓢ Instrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
- Ⓢ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓢ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Ⓢ Sensitive Research Instrument Corporation, 9 Elm Avenue, Mount Vernon, N. Y.
- Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.

STANDARDS EQUIPMENT—Calibration

- Ⓢ Bassett Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Ⓢ Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.
- Ⓢ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓢ Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y.
- Ⓢ MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Ⓢ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓢ RADIO FREQUENCY LABS., INC., Boonton 2, N. J. ADV. PG. 172.
- Ⓢ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓢ Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Ⓢ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.

STANDARDS—Microphone

- Ⓢ AMPERITE CO., 561 Broadway, New York 12, N. Y. ADV. PG. 218.
- Ⓢ Astatic Corp., The, Conneaut, Ohio.
- Ⓢ Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
- Ⓢ AVIOMETER DIV. of Roanwell Corp., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓢ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
- Ⓢ Eastern Mike-Stand Co., 56 Christopher Ave., Brooklyn 12, N. Y.
- Ⓢ ELECTRO-VOICE, INC., Buchanan, Mich. ADV. PG. 207.
- Ⓢ MILES REPRODUCER CO., INC., 812 Broadway, New York 3, N. Y. ADV. PG. 275.
- Ⓢ Olesen Co., Otto K., 1534 Cahuenga, Hollywood 28, Calif.
- Ⓢ Racon Electric Co., Inc., 52 East 19th St., New York 3, N. Y.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ TURNER CO., THE, 909 17th Street, N.E., Cedar Rapids, Iowa. ADV. PG. 54.

STANDARDS—Speaker

- Ⓢ Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
- Ⓢ Dilks Co., The, Seymour, Conn.
- Ⓢ Racon Electric Co., 52 E. 19th St., New York 3, N. Y.

STEATITE

See Insulation Materials

STENCILS—Metal Marking

- Ⓢ Acromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
- Ⓢ Numeral Stamp & Tool Co., Huguenot Park, Staten Island 12, N. Y.

STETHOGRAPHS AND STETHOPHONES

- Ⓢ Edin Electronics Co., 207 Main St., Worcester, Mass.
- Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.

STETHOSCOPES—Amplifying

- Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Ⓢ Western Sound & Electric Labs., Inc., 805 S. Fifth St., Milwaukee 4, Wis.

STIMULATORS

- Ⓢ Electrodyne Company, 32 Oliver St., Boston, Mass.
- Ⓢ Electro-Medical Lab., Inc., Holliston, Mass.
- Ⓢ ELECTRONIC TUBE CORP., 1200 E. Mermaid Ave., Philadelphia 18, Pa. ADV. PG. 156.
- Ⓢ Grass Instrument Co., 101 Old Colony Ave., Quincy, Mass.
- Ⓢ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa. Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- Ⓢ GRAHM INSTRUMENTS, INC., 12 West Broadway, New York 7, N. Y. ADV. PG. 178.
- Ⓢ SANBORN CO., 39 Osborn St., Cambridge 39, Mass. ADV. PG. 219.
- Ⓢ Wappler, Inc., 27 W. 24th St., New York 10, N. Y.

STRAIN RELIEFS

- Ⓢ Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- Ⓢ HEYMAN MFG. CO., 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
- Ⓢ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓢ WALKER CO., GEORGE, 118 Amsterdam Ave., Passaic, N. J. ADV. PG. 208.

STRIPPERS—Wire

- Ⓢ Aircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
- Ⓢ Eraser Co., Inc., The, Rush Wire Stripper Div., 104 S. State St., Syracuse 2, N. Y.
- Ⓢ Fidelity Chemical Products Corp., 472 Frelinghuysen Ave., Newark, N. J.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Ideal Industries, Inc., Park & Borden Aves., Sycamore, Ill.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓢ Pyramid Products Co., 2224 S. State St., Chicago, Ill.
- Ⓢ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Smith Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

STROBOSCOPES

- Ⓢ Communication Measurements Lab., Inc., 120 Greenwich St., New York, N. Y.
- Ⓢ Conn Ltd., C. G. Electronics Div., Elkhart, Ind.
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓢ Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.
- Ⓢ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓢ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

STROBOTRONS

See Tubes

SUPPRESSORS—Auto Radio Ignition

- Ⓢ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓢ Camburn, Inc., 32-40 57th St., Woodside, N. Y.
- Ⓢ Carborundum Co., Global Div., Niagara Falls, N. Y.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ Continental Carbon, Inc., 13900 Lorain Ave., Cleveland 11, Ohio.
- Ⓢ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓢ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- Ⓢ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓢ INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ National Electronic Mfg. Co., 35-05 36th St., Long Island City 5, N. Y.

- Ⓢ Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

SUPPRESSORS—Fluorescent Light

- Ⓢ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
- Ⓢ Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
- Ⓢ Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓢ Sprague Electric Co., North Adams, Mass.

SUPPRESSORS—Noise

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Bassett Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- Ⓢ Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓢ Continental Carbon, Inc., 13900 Lorain Ave., Cleveland 11, Ohio.
- Ⓢ Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.
- Ⓢ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- Ⓢ Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, L. I., N. Y.
- Ⓢ Fisher Radio Corp., 41 E. 47th St., New York, N. Y.
- Ⓢ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓢ Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓢ Scott, Inc., Hermon Hosmer, 385 Putnam Ave., Cambridge 39, Mass.
- Ⓢ Somerset Laboratories, Inc., 1701 Palisades Ave., Union City, N. J.
- Ⓢ Sprague Electric Co., North Adams, Mass.
- Ⓢ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

SUPPRESSORS—Parasitic

- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Carborundum Co., The, Global Div., Niagara Falls, N. Y.
- Ⓢ Coil Winders, Inc., 61 Bergen St., Brooklyn 2, N. Y.
- Ⓢ ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa. ADV. PG. 47.
- Ⓢ INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 8, Pa. ADV. PG. 88, 89.
- Ⓢ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.

SURFACE ANALYZERS AND COMPARATORS

See Analyzers

SUSPENSIONS—Speaker

- Ⓢ Hawley Products Co., St. Charles, Ill.

SWITCH PARTS

Call Letter Tabs

- Ⓢ Plastic Fabricators Co., 440 Sansome St., San Jesus-Blair Dr., Silver Spring, Md.
- Ⓢ Printloid, Inc., 95 Mercer St., New York 12, N. Y.

SWITCHBOARDS—Radio

- Ⓢ American Communications Corp., 306 Broadway, New York 7, N. Y.
- Ⓢ Northeastern Engineering, Inc., Manchester, N. H.
- Ⓢ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

SWITCHES—Automatic

- Ⓢ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓢ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓢ Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.
- Ⓢ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓢ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓢ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Ⓢ Fasco Industries, Inc., Rochester 2, N. Y.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Federal Electric Products Co., 50 Paris St., Newark, N. J.
- Ⓜ General Controls Co., Glendale 1, Calif.
- Ⓜ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓜ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.

SWITCHES—Coaxial Cable

- Ⓜ BIRD ELECTRONIC CORP., 1800 E. 38th St., Cleveland 14, Ohio. ADV. PG. 184, 185.
- Ⓜ Designers for Industry, Inc., 2915 Detroit Ave., Cleveland 13, Ohio.
- Ⓜ General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
- Ⓜ Product Development Co., Inc., Arlington, N. J.
- Ⓜ Selector Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
- Ⓜ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass.

SWITCHES—Control

- Ⓜ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓜ CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
- Ⓜ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 21, Ill. ADV. PG. 31.
- Ⓜ J-B-L Instrument Co., Sycamore & Mill Rds., Clifton Heights, Pa.
- Ⓜ Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
- Ⓜ Micro Switch, Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis, Minn.
- Ⓜ Mu Switch Division, Arco Switch Co., 38 Pequit St., Canton, Mass.
- Ⓜ National Acme Co., 176 E. 131st St., Cleveland 8, Ohio.
- Ⓜ Roller-Smith, Bethlehem, Pa.
- Ⓜ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—Decade

- Ⓜ BROWN ELECTRO-MEASUREMENT CORP., 4637 SE Hawthorne Blvd., Portland 15, Oregon. ADV. PG. 276.
- Ⓜ CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
- Ⓜ J-B-L Instrument Co., Sycamore & Mill Rds., Clifton Heights, Pa.
- Ⓜ Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

SWITCHES—Duplex

- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.

SWITCHES—Electronic

- Ⓜ Acro Electric Co., 1305 Superior Ave., Cleveland 14, Ohio.
- Ⓜ Airborne Electronics Co., Metropolitan Airport, Hangar No. 3, Van Nuys, Calif.
- Ⓜ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.

- Ⓜ CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓜ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
- Ⓜ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓜ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓜ Lewis & Kaufman, Inc., P. O. Box 337, 90 El Rancho Ave., Los Gatos, Calif.
- Ⓜ Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Manning, Maxwell & Moore, Inc., Stratford, Conn.
- Ⓜ Philbrick Researches, Inc., 230 Congress St., Boston 10, Mass.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.

SWITCHES—Float Type

- Ⓜ Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- Ⓜ Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
- Ⓜ Micro Switch Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Ⓜ Trumbull Electric Mfg. Co., Plainville, Conn.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—Key

- Ⓜ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill.
- Ⓜ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓜ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—Knife

- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- Ⓜ Federal Electric Products Co., 50 Paris St., Newark, N. J.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓜ Gregory Mfg. Co., Inc., The, 67 Franklin St., New Haven 11, Conn.
- Ⓜ Hetherington, Inc., Sharon Hill, Pa.
- Ⓜ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓜ Koltan Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓜ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Ⓜ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓜ Trumbull Electric Mfg. Co., Plainville, Conn.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ Wood Electric Co., Inc., C. D., 70-17 83rd St., Glendale, L. I., N. Y.

SWITCHES—Lever

- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill.
- Ⓜ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Ⓜ GENERAL CONTROL COMPANY, 1200 Soldiers Field Rd., Boston 34, Mass. ADV. PG. 149.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.

- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Ⓜ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓜ SWITCHCRAFT, INC., 1328-30 N. Halsted St., Chicago 22, Ill. ADV. PG. 162.

SWITCHES—Limit

- Ⓜ Acro Electric Co., 1316 Superior Ave., Cleveland 14, Ohio.
- Ⓜ Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓜ Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
- Ⓜ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓜ General Controls Co., Glendale 1, Calif.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Hetherington, Inc., Sharon Hill, Pa.
- Ⓜ Micro Switch, Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- Ⓜ Mu Switch Division, Acro Switch Co., 38 Pequit St., Canton 31, Mass.
- Ⓜ National Acme Co., 176 E. 131st St., Cleveland 8, Ohio.
- Ⓜ ROTRON MFG. CO., INC., 7-9 Schoonmaker Lane, Woodstock, N. Y. ADV. PG. 160.
- Ⓜ Unimax Switch Div. of W. L. Maxson Corp., 460 W. 34th St., New York 1, N. Y.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—Mercury

- Ⓜ Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
- Ⓜ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis, Minn.

SWITCHES—Pressure Operated

- Ⓜ Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- Ⓜ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓜ Coral Designs, P. O. Box 248, Forest Hills, N. Y.
- Ⓜ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Magnavox Co., The Components Div., Fort Wayne 4, Indiana.
- Ⓜ Micro Switch Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue, S., Minneapolis, Minn.
- Ⓜ U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—Rotary and Band Change

- Ⓜ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓜ Ark-Les Switch Corp., 55 Water St., Watertown 72, Mass.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ CENTRALAB DIV. OF GLOBE UNION INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓜ CLAROSTAT MFG. CO., INC., Dover, N. H. ADV. PG. 227.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ Eastern Specialty Co., Philadelphia 40, Pa.
- Ⓜ General Control Company, 1200 Soldiers Field Rd., Boston 34, Mass. ADV. PG. 149.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
- Ⓜ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓜ J-B-L Instrument Co., Sycamore & Mill Rds., Clifton Heights, Pa.
- Ⓜ JBT INSTRUMENTS INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- Ⓜ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
- Ⓜ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓜ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓜ SWITCHCRAFT, INC., 1328-30 N. Halsted St., Chicago 22, Ill. ADV. PG. 162.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓜ U. S. Instrument Corp., 409 Broad Street, Summit, N. J.

SWITCHES—Safety

- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓜ Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- Ⓜ Federal Electric Products Company, 50 Paris St., Newark, N. J.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Hetherington, Inc., Sharon Hill, Pa.
- Ⓜ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓜ Micro Switch Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Ⓜ Mu Switch Division, Acro Switch Co., 38 Pequit St., Canton, Mass.
- Ⓜ ROTRON MFG. CO., INC., 7-9 Schoonmaker Lane, Woodstock, N. Y. ADV. PG. 260.
- Ⓜ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
- Ⓜ Trumbull Electric Mfg. Co., Plainville, Conn.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—Slide

- Ⓜ Ark-Les Switch Corp., 55 Water St., Watertown 72, Mass.
- Ⓜ CENTRALAB DIV., Globe Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓜ Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
- Ⓜ Dual-Remote Control Co., Garden City, Mich.
- Ⓜ Elpar Co., 539 Market St., Camden 2, N. J.
- Ⓜ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
- Ⓜ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓜ Micro Switch Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
- Ⓜ Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓜ Smith, Inc., Herman H., 405-44th St., Brooklyn 20, N. Y.
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓜ States Co., 19 New Park Ave., Hartford 6, Conn.
- Ⓜ Wirt Co., 5221 Greene Street, Philadelphia 44, Pa.

SWITCHES—Snap Action

- Ⓜ Acro Electric Co., 1316 Superior Ave., Cleveland, Ohio.
- Ⓜ AVIOMETER DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓜ CENTRALAB DIV. OF GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee, Wis. ADV. PG. 64, 65.
- Ⓜ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓜ Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ Elpar Co., 539 Market St., Camden 2, N. J.
- Ⓜ GENERAL CONTROL COMPANY, 1200 Soldiers Field Rd., Boston 34, Mass. ADV. PG. 149.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓜ GRAYHILL, 4524 N. Madison St., Chicago 24, Ill. ADV. PG. 250.
- Ⓜ GUARDIAN ELECTRIC MFG. CO., 1621 W. Walnut St., Chicago 12, Ill. ADV. PG. 31.
- Hetherington, Inc., Sharon Hill, Pa.
- Ⓜ Hoffman Engineering Corp., Anoka, Minn.

- Ⓜ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓜ Micro Switch Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Ⓜ Mu Switch Division, Acro Switch Co., 38 Pequit St., Canton, Mass.
- Ⓜ National Acme Co., 176 E. 131st St., Cleveland 8, Ohio.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓜ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓜ Ucinite Co. Div. of United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.

SWITCHES—Step Type

- Ⓜ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Communication Measurements Lab., Inc., 120 Greenwich St., New York, N. Y.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- Ⓜ RADIO RECEPTOR CO., 251 W. 19th St., New York 11, N. Y. ADV. PG. 188.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

SWITCHES—Tap

- Ⓜ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓜ CENTRALAB DIV., GLOBE UNION, INC., 900 E. Keefe Ave., Milwaukee 1, Wis. ADV. PG. 64, 65.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Communication Products Co., Inc., Broadway & Clark St., Keyport, N. J.
- Ⓜ Daven Co., 191 Central Ave., Newark 4, N. J.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ GRAYHILL, 4524 N. Madison St., Chicago 24, Ill. ADV. PG. 250.
- Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
- Ⓜ Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
- Ⓜ OHMITE MFG. CO., 4835 W. Flournoy St., Chicago 44, Ill. ADV. PG. 83.
- Ⓜ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓜ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.

SWITCHES—Thermal

- Ⓜ Acro Electric Co., 1305 Superior Ave., Cleveland 14, Ohio.
- Ⓜ Barber-Colman Co., Rockford, Ill.
- Ⓜ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓜ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓜ EDISON, INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129.
- Ⓜ Kulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
- Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa.
- Ⓜ Manning, Maxwell & Moore, Inc., Stratford, Conn.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- Ⓜ Mu Switch Division, Acro Switch Co., 38 Pequit St., Canton, Mass.
- Ⓜ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
- Ⓜ Ulanet Co., George, 413 Market St., Newark 5, N. J.
- Ⓜ U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—Time

- Ⓜ Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
- Ⓜ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓜ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓜ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.

- Ⓜ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓜ Eagle Signal Corp., Moline, Ill.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Ⓜ HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- Ⓜ Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- Ⓜ Landis & Gyr, Inc., 104 Fifth Ave., New York 11, N. Y.
- Ⓜ Lekra Laboratories, 30 E. 10th St., New York 3, N. Y.
- Ⓜ Liebel-Flarsheim Co., 303 W. Third St., Cincinnati 2, Ohio.
- Ⓜ Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- Ⓜ Paragon Electric Co., Two Rivers, Wisconsin.
- Ⓜ Reliance Automatic Lighting Co., 1919 Mead St., Racine, Wis.
- Ⓜ Rhodes, Inc., M. H., 30 Bartholomew Ave., Hartford, Conn.
- Ⓜ Tark Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
- Ⓜ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

SWITCHES—Toggle and Pushbutton

- Ⓜ Acro Electric Co., 1305 Superior Ave., Cleveland 14, Ohio.
- Ⓜ Ark-Les Switch Corp., 55 Water St., Watertown 72, Mass.
- Ⓜ Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.
- Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Ⓜ Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill.
- Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
- Ⓜ Cutler-Hammer Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓜ FEDERAL SCREW PRODUCTS, INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓜ GENERAL CONTROL COMPANY, 1200 Soldiers Field Rd., Boston 34, Mass. ADV. PG. 149.
- Ⓜ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓜ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport, Conn. ADV. PG. 5 to 18.
- Ⓜ GRAYHILL, 4524 N. Madison St., Chicago 24, Ill. ADV. PG. 250.
- Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
- Ⓜ Hart Mfg. Co., 110 Bartholomew Ave., Hartford 1, Conn.
- Hetherington, Inc., Sharon Hill, Pa.
- Ⓜ Howard Mfg. Corp., 1401 South Main St., Council Bluffs, Iowa.
- Ⓜ Hubbell, Inc., Harvey, Bridgeport 2, Conn.
- Ⓜ INSULINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓜ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓜ Kulka Electric Mfg. Co., 30 South St., Mt. Vernon, N. Y.
- Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓜ Micro Switch Div. of First Industrial Corp., 7 Spring St., Freeport, Ill.
- Ⓜ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- Ⓜ Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
- Ⓜ Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
- Ⓜ Pass & Seymour, Inc., Solvay Station, Syracuse, N. Y.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
- Ⓜ R. B. M. Div., Essex Wire Corp., Logansport, Ind.
- Ⓜ RUSSELL & STOLL CO., INC., 125 Barclay St., New York 7, N. Y. ADV. PG. 211.
- Ⓜ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓜ SWITCHCRAFT, INC., 1328-30 N. Halsted St., Chicago 22, Ill. ADV. PG. 162.
- Ⓜ Ucinite Co., The, Div. United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
- Ⓜ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

SWITCHES—TR

- Ⓜ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

SWITCHES—Vacuum

- Ⓥ CHATHAM ELECTRONICS CORP., 475 Washington St., Newark 2, N. J. ADV. PG. 126.
- Ⓥ Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.
- Ⓥ Cutter-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.
- Ⓥ Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd. W., Rochester 3, N. Y.
- Ⓥ Eitel-McCullough Inc., San Bruno, Calif.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ JENNINGS RADIO MFG. CO., 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.
- Ⓥ Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa.
- Ⓥ Skaneateles Mfg. Co., Inc., 122 Dickerson St., Syracuse, N. Y.
- Ⓥ Sperti Inc., Cincinnati 12, Ohio.
- Ⓥ U. S. Gauge Div., American Machine & Metals, Inc., Sellersville, Pa.
- Ⓥ Wallace & Tiernan Products, Inc., Belleville 9, N. J.

SYNCHRONIZERS—Electronic

- Ⓥ Acme Electronic Div., of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- Ⓥ Burlington Instrument Co., Burlington, Iowa.
- Ⓥ Control Corp., 718 Central Ave., Minneapolis 14, Minn.
- Ⓥ Electronic Associates, Inc., Long Branch, N. J.
- Ⓥ NORRMAN LABORATORIES, ERNST, Williams Bay, Wis. ADV. PG. 177.
- Ⓥ Press Wireless Mfg. Co., Inc., Cantigue Rd., Hicksville, L. I., N. Y.
- Ⓥ Rangertone, Inc., 73 Winthrop St., Newark 4, N. J.

SYNCHRONIZERS—Electronic Aircraft Magneto

- Ⓥ SPERRY GYROSCOPE CO., Div. of Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

SYNCHROSCOPES

- Ⓥ BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
- Ⓥ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓥ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- Ⓥ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- Ⓥ Radioactive Products, Inc., 3201 E. Woodbridge St., Detroit 7, Mich.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- Ⓥ WATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.
- Ⓥ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TACHOMETERS—Electronic

- Ⓥ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓥ Berkeley Scientific Co., Richmond, Calif.
- Ⓥ C. G. S. LABORATORIES, INC., 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- Ⓥ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓥ Electric Heat Control Co., The, 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓥ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- Ⓥ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓥ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Ⓥ Ideal Industries, Inc., Park & Bordon Avenues, Syracuse, Ill.
- Ⓥ ILLI ELECTRIC CO., 14 Maple Ave., Pinebrook, N. J. ADV. PG. 193.
- Ⓥ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ Nuclonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓥ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓥ Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N. Y.
- Ⓥ Westberg Mfg. Co., 612 N. Michigan Ave., Chicago 11, Ill.
- Ⓥ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Avenue, Newark 5, N. J. ADV. PG. 108.
- Ⓥ Zernickow Co., O., 15 Park Row, New York 7, N. Y.

TAPE—Magnetic Recording

- Ⓥ AUDIO DEVICES INC., 444 Madison Ave., New York 22, N. Y. ADV. PG. 37.
- Ⓥ BRUSH DEVELOPMENT CO., THE, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Ⓥ Fidelitone Corp., 1616 Devon Ave., Chicago 26, Ill.
- Ⓥ Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul, Minn.
- Ⓥ Orradio Industries, Opelika, Ala.
- Ⓥ REEVES SOUNDRAFT CORP., 35-54 36th St., Long Island City, N. Y. ADV. PG. 171.

TAPES

See Insulation Parts

TECHNICAL BOOKS—Publishers

The following listings do not carry the V identification as individual books are not listed.

- Academic Press Inc., 125 E. 23rd St., New York 10, N. Y.
- American Institute of Electrical Engineers, 33 W. 39th St., New York, N. Y.
- American Radio Relay League, West Hartford, Conn.
- American Standards Association, 70 E. 45th St., New York, N. Y.
- Audel & Co., Theodore, 49 W. 23rd St., New York, N. Y.
- Bernards Publishers Ltd., The Gramplans, Western Gate, London W. 6, England.
- Boyce-Roche Book Co., 460 Bloomfield Ave., Montclair, N. J.
- Chapman & Hall Ltd., 37 Essex St., London, W. C. 2, England.
- Day Co. Inc., John, 62 W. 45th St., New York, N. Y.
- Dover Publications Inc., 1780 Broadway, New York, N. Y.
- Editors and Engineers Ltd., Santa Barbara, Calif.
- Electronics Research Publishing Co., Inc., 480 Canal St., New York 13, N. Y.
- Elsevier Publishing Co., Inc., 215 Fourth Ave., New York, N. Y.
- Engineers Council for Professional Development, 29 W. 39th St., New York, N. Y.
- Federal Telephone & Radio Corp., Publication Dept., 67 Broad St., New York 4, N. Y.
- Harper & Brothers, 49 E. 33rd St., New York, N. Y.
- Industrial Research Service, Dover, N. H.
- Institute of Radio Engineers, Inc., 1 E. 79th St., New York, N. Y.
- International Publishers Co., 381 Fourth Ave., New York, N. Y.
- Interscience Publishers Inc., 215 Fourth Ave., New York 3, N. Y.
- Irwin Inc., Richard D., 3201 S. Michigan Ave., Chicago 16, Ill.
- McGraw-Hill Book Company, Inc., 330 W. 42nd St., New York 18, N. Y.
- Macmillan Co., The, 60 Fifth Ave., New York 11, N. Y.
- Maedel Publishing House, 593 East 38th St., Brooklyn 3, N. Y.
- Murray Hill Books Inc., 232 Madison Ave., New York, N. Y.
- National Bureau of Standards, Washington, D. C.
- Nelson & Sons, Thomas, 385 Madison Ave., New York, N. Y.
- Oxford University Press, 114 Fifth Ave., New York, N. Y.
- Philips Gloeilampenfabrieken, N. V., Eindhoven, The Netherlands.
- Philosophical Library, Publishers, 15 E. 40th St., New York 16, N. Y.
- Pitman Publishing Corp., 2 W. 45th St., New York, N. Y.
- Prentice-Hall Inc., 70 Fifth Ave., New York, N. Y.
- Princeton University Press, Princeton, N. J.
- Radcraft Publications Inc., 25 W. Broadway, New York, N. Y.
- Radio Corporation of America, R C A Laboratories Div., Princeton, N. J.
- Radio Corporation of America, Tube Dept., Harrison, N. J.
- Rider Publications Inc., John F., 480 Canal St., New York 13, N. Y.
- Ronald Press Co., The, 15 E. 26th St., New York 10, N. Y.
- Sams Co. Inc., Howard W., 2201 E. 46th St., Indianapolis 5, Ind.
- Stechert-Hafner Inc., 31 East 10th St., New York, N. Y.
- United Catalog Publishers Inc., 110 Lafayette St., New York, N. Y.
- Universal Scientific Co. Inc., Vincennes, Ind.
- University of Chicago Press, The, Chicago, Ill.
- VanNostrand Co., Inc., D., 250 Fourth Ave., New York 3, N. Y.
- Wiley & Sons Inc., John, 440 Fourth Ave., New York, N. Y.

TELEMETERING SYSTEMS—Electronic

- Ⓥ Ampex Electric Corp., 1155 Howard Ave., San Carlos, Calif.
- Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.

- Ⓥ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓥ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓥ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.
- Ⓥ Clarke Instrument Corp., 910 King St., Silver Spring, Md.
- Ⓥ Control Corp., 718 Central Ave., Minneapolis 14, Minn.
- Ⓥ Electro-Mechanical Research, Inc., Ridgefield, Conn.
- Ⓥ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓥ Friez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓥ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ Lear, Inc., 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- Ⓥ Leuppold & Stevens Instruments, Inc., 4445 N. E. Gilsan St., Portland 13, Ore.
- Ⓥ Lynch Co., F. W., 151 2nd St., San Francisco, Calif.
- Ⓥ Melpar, Inc., 452 Swann Ave., Alexandria, Va.
- Ⓥ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓥ Rosen Engineering Products, Inc., Raymond, 32nd & Walnut Sts., Philadelphia 4, Pa.
- Ⓥ SERVO-TEK PRODUCTS CO., 4 Godwin Ave., Paterson 1, N. J. ADV. PG. 187.
- Ⓥ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓥ Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.

TELEPHONES—Handsets

- Ⓥ Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.
- Ⓥ AVIOMETER DIV. OF ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y. ADV. PG. 66.
- Ⓥ Connecticut Telephone & Electric Div., Great American Industries, 70 Britannia St., Meriden, Conn.
- Ⓥ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓥ Murdock Mfg. Co., Wm. J., Chelsea, Mass.
- Ⓥ North Electric Mfg. Co., 501 S. Market St., Galion, Ohio.
- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ Telephonics Corp., Park Ave., Huntington, N. Y.
- Ⓥ U. S. Instrument Corp., 409 Broad St., Summit, N. J.
- Ⓥ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

TELEVISION MASKS

See Masks, Television

TELEVISION PROJECTION SCREENS

See Screens, Television Projection

TELEVISION SYSTEMS—Industrial

- Ⓥ Bace Television Corp. Green & Leuning Sts., South Hackensack, N. J.
- Ⓥ Bell Television, 147 West 42nd St., New York 17, N. Y.
- Ⓥ Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Ⓥ GRAY RESEARCH & DEVELOPMENT CO., 16 Arbor St., Hartford 1, Conn. ADV. PG. 239.
- Ⓥ Hi-Par Products Co., Fitchburg, Mass.
- Ⓥ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓥ Multiple Television Mfg. Co., 987 Hegeman Ave., Brooklyn 8, N. Y.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ Polaroid Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ Remington Rand, Inc., Vericon Dept., 315 4th Ave., New York, N. Y.
- Ⓥ Telequip Radio Co., 1901 S. Washtenaw, Chicago, Ill.
- Ⓥ Teletronics Laboratory, Inc., 352 Maple Ave., Westbury, L. I., N. Y.
- Ⓥ Television Equipment Corp., 238 William St., New York 7, N. Y.
- Ⓥ Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.
- Ⓥ Television Utilities Corp., 1261 Broadway, New York 1, N. Y.

TERMINAL BLOCKS

- Ⓥ Aircraft-Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
- Ⓥ ALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.

V indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

- AMERICAN LAVA CORP.**, Chattanooga 5, Tenn. ADV. PG. 27.
- AMERICAN PHENOLIC CORPORATION**, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Baer Co.**, N. S., 9 Montgomery St., Hillside, N. J.
- BUCHANAN ELECTRICAL PRODUCTS CORP.**, 1290 Central Ave., Hillside, N. J. ADV. PG. 214.
- Burke Electric Co.**, 12th & Cranberry Sts., Erie, Pa.
- Burdny Engineering Co., Inc.**, 107 Bruckner Blvd., New York 54, N. Y.
- CAMBRIDGE THERMIONIC CORP.**, 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Cinema Engineering Co.**, 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
- Citation Products Co.**, 233 E. 146th St., New York 51, N. Y.
- Connecticut Telephone & Electric Div.**, Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Continental Diamond Fibre Co.**, 16 Chapel St., Newark 16, Del.
- Cook Electric Co.**, 2700 Southport Ave., Chicago 14, Ill.
- Curtis Development & Mfg. Co.**, 1 N. Crawford Ave., Chicago 24, Ill.
- Eby Inc.**, Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- Electrical Refractories Co.**, 50 Clark St., East Palestine, Ohio.
- Electronic Mechanics Inc.**, 70 Clifton Blvd., Clifton, N. J.
- FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Franklin Mfg. Corp.**, A. W., 43-20 34th St., Long Island City, N. Y.
- GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Greenhut Insulation Co.**, 31 W. 21st St., New York, N. Y.
- INSULINE CORP. OF AMERICA**, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- JONES DIV., HOWARD B.**, Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Kellogg Switchboard & Supply Co.**, 6650 S. Cicero Ave., Chicago 38, Ill.
- Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- Kolton Electric Mfg. Co.**, 123 New Jersey Railroad Ave., Newark 5, N. J.
- Kulka Electric Mfg. Co., Inc.**, 30 South St., Mt. Vernon, N. Y.
- Lamico Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Ill.
- Loral Electronics Corp.**, 794 E. 140th St., New York 54, N. Y.
- MALCO TOOL & MFG. CO.**, 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
- Masonite Corp.**, 111 W. Washington St., Chicago 2, Ill.
- Micarta Fabricators, Inc.**, 5324 Ravenswood Ave., Chicago 40, Ill.
- Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Miller Co.**, J. W. 5917 S. Main St., Los Angeles, Calif.
- Molded Insulation Co.**, Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- MOLDING CORP. OF AMERICA**, Pawtucket, R. I. ADV. PG. 230.
- Murdock Mfg. Co.**, Wm. J., Chelsea, Mass.
- NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- Penn Fibre & Specialty Co.**, 2020 E. Westmoreland St., Philadelphia 34, Pa.
- Printloid Inc.**, 95 Mercer St., New York, N. Y.
- RICHARDSON CO, THE**, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- States Co.**, 19 New Park Ave., Hartford 6, Conn.
- Taylor Fibre Co.**, Norristown, Pa.
- Triad Transformer Mfg. Co.**, 2254 Sepulveda Blvd., Los Angeles 64, Calif.
- U. S. Instrument Corp.**, 409 Broad St., Summit, N. J.
- Wade Electric Products Co.**, 211 Jacob St., Sturgis, Mich.
- WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TERMINAL BOARDS

- AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- ALDEN PRODUCTS CO.**, 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- American Communications Corp.**, 306 Broadway, New York 7, N. Y.
- Austin Co., Inc.**, O., 335 Throop Ave., Brooklyn 21, N. Y.
- Baer Co.**, N. S., 9 Montgomery St., Hillside, N. J.
- BUCHANAN ELECTRICAL PRODUCTS CORP.**, 1290 Central Ave., Hillside, N. J. ADV. PG. 214.
- Burdny Engineering Co., Inc.**, 107 Bruckner Blvd., New York 54, N. Y.
- CAMBRIDGE THERMIONIC CORP.**, 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Cannon Electric Development Co.**, 3209 Humboldt St., Los Angeles 31, Calif.
- CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Citation Products Co.**, 233 E. 146th St., New York 51, N. Y.
- Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Connecticut Telephone & Electric Div.**, Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Cook Electric Co.**, 2700 Southport Ave., Chicago 14, Ill.
- Electronic Mechanics Inc.**, 70 Clifton Blvd., Clifton, N. J.
- FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Franklin Mfg. Corp.**, A. W., 43-20 34th St., Long Island City, N. Y.
- GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Greenhut Insulation Co.**, 31 W. 21st St., New York, N. Y.
- INSULINE CORP. OF AMERICA**, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- JONES DIV., HOWARD B.**, Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- Kings Electronics Co., Inc.**, 811 Lexington Ave., Brooklyn 21, N. Y.
- Kolton Electric Mfg. Co.**, 123 New Jersey Railroad Ave., Newark 5, N. J.
- Kulka Electric Mfg. Co., Inc.**, 30 South St., Mt. Vernon, N. Y.
- Lamico Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Ill.
- Loral Electronics Corp.**, 794 E. 140th St., New York 54, N. Y.
- MALCO TOOL & MFG. CO.**, 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
- Masonite Corp.**, 111 W. Washington St., Chicago 2, Ill.
- Micarta Fabricators, Inc.**, 5324 Ravenswood Ave., Chicago 40, Ill.
- Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Miller Co.**, J. W. 5917 S. Main St., Los Angeles, Calif.
- Molded Insulation Co.**, Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- Penn Fibre & Specialty Co.**, 2020 E. Westmoreland St., Philadelphia 34, Pa.
- Penn-Union Electric Corp.**, 315 State Street, Erie, Pa.
- Philmore Mfg. Co.**, 113 University Place, New York 3, N. Y.
- PRECISION METAL PRODUCTS CO. OF MALDEN**, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- Printloid Inc.**, 95 Mercer St., New York, N. Y.
- Remler Co., Ltd.**, 2101 Bryant St., San Francisco, Calif.
- RICHARDSON CO, THE**, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Servomechanisms, Inc.**, 142 Mineola Blvd., Mineola, N. Y.
- Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- States Co.**, 19 New Park Ave., Hartford 6, Conn.
- Taylor Fibre Co.**, Norristown, Pa.
- Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ucinite Co., The**, Div. United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
- U. S. Engineering Co.**, 521 Commercial St., Glendale 3, Calif.
- Wade Electric Products Co.**, 211 Jacob St., Sturgis, Mich.
- Waterbury Companies, Inc.**, Waterbury 90, Conn.

- CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Citation Products Co.**, 233 E. 146th St., New York 51, N. Y.
- Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Connecticut Telephone & Electric Div.**, Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Eby, Inc.**, Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.
- Electronic Mechanics Inc.**, 70 Clifton Blvd., Clifton, N. J.
- FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Franklin Mfg. Corp.**, A. W., 43-20 34th St., Long Island City, N. Y.
- GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Greenhut Insulation Co.**, 31 W. 21st St., New York, N. Y.
- INSULINE CORP. OF AMERICA**, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- JONES DIV., HOWARD B.**, Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- Kings Electronics Co., Inc.**, 811 Lexington Ave., Brooklyn 21, N. Y.
- Kolton Electric Mfg. Co.**, 123 New Jersey Railroad Ave., Newark 5, N. J.
- Kulka Electric Mfg. Co., Inc.**, 30 South St., Mt. Vernon, N. Y.
- Lamico Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Ill.
- Loral Electronics Corp.**, 794 E. 140th St., New York 54, N. Y.
- MALCO TOOL & MFG. CO.**, 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
- Masonite Corp.**, 111 W. Washington St., Chicago 2, Ill.
- Micarta Fabricators, Inc.**, 5324 Ravenswood Ave., Chicago 40, Ill.
- Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Miller Co.**, J. W. 5917 S. Main St., Los Angeles, Calif.
- Molded Insulation Co.**, Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- Penn Fibre & Specialty Co.**, 2020 E. Westmoreland St., Philadelphia 34, Pa.
- PRECISION METAL PRODUCTS CO. OF MALDEN**, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- Printloid Inc.**, 95 Mercer St., New York, N. Y.
- RICHARDSON CO, THE**, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Spaulding Fibre Co., Inc.**, 310 Wheeler St., Tonawanda, N. Y.
- States Co.**, 19 New Park Ave., Hartford 6, Conn.
- Taylor Fibre Co.**, Norristown, Pa.
- Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ucinite Co., The**, Div. United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
- U. S. Engineering Co.**, 521 Commercial St., Glendale 3, Calif.
- Wade Electric Products Co.**, 211 Jacob St., Sturgis, Mich.

TERMINAL STRIPS

- AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- ALDEN PRODUCTS CO.**, 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- American Communications Corp.**, 306 Broadway, New York 7, N. Y.
- AMERICAN PHENOLIC CORPORATION**, 1830 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Austin Co., Inc.**, O., 335 Throop Ave., Brooklyn 21, N. Y.
- Baer Co.**, N. S., 9, Montgomery St., Hillside, N. J.
- Birnbach Radio Co., Inc.**, 145 Hudson St., New York, N. Y.
- BUCHANAN ELECTRICAL PRODUCTS CORP.**, 1290 Central Ave., Hillside, N. J. ADV. PG. 214.
- Burdny Engineering Co., Inc.**, 107 Bruckner Blvd., New York 54, N. Y.
- CAMBRIDGE THERMIONIC CORP.**, 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- Cannon Electric Development Co.**, 3209 Humboldt St., Los Angeles 31, Calif.
- CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Citation Products Co.**, 233 E. 146th St., New York 51, N. Y.
- Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Connecticut Telephone & Electric Div.**, Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- Cook Electric Co.**, 2700 Southport Ave., Chicago 14, Ill.
- Electronic Mechanics Inc.**, 70 Clifton Blvd., Clifton, N. J.
- FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Franklin Mfg. Corp.**, A. W., 43-20 34th St., Long Island City, N. Y.
- GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Greenhut Insulation Co.**, 31 W. 21st St., New York, N. Y.
- INSULINE CORP. OF AMERICA**, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- JONES DIV., HOWARD B.**, Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- Kings Electronics Co., Inc.**, 811 Lexington Ave., Brooklyn 21, N. Y.
- Kolton Electric Mfg. Co.**, 123 New Jersey Railroad Ave., Newark 5, N. J.
- Kulka Electric Mfg. Co., Inc.**, 30 South St., Mt. Vernon, N. Y.
- Lamico Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Ill.
- Loral Electronics Corp.**, 794 E. 140th St., New York 54, N. Y.
- MALCO TOOL & MFG. CO.**, 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
- Masonite Corp.**, 111 W. Washington St., Chicago 2, Ill.
- Micarta Fabricators, Inc.**, 5324 Ravenswood Ave., Chicago 40, Ill.
- Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Miller Co.**, J. W. 5917 S. Main St., Los Angeles, Calif.
- Molded Insulation Co.**, Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- Penn Fibre & Specialty Co.**, 2020 E. Westmoreland St., Philadelphia 34, Pa.
- Penn-Union Electric Corp.**, 315 State Street, Erie, Pa.
- Philmore Mfg. Co.**, 113 University Place, New York 3, N. Y.
- PRECISION METAL PRODUCTS CO. OF MALDEN**, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- Printloid Inc.**, 95 Mercer St., New York, N. Y.
- Remler Co., Ltd.**, 2101 Bryant St., San Francisco, Calif.
- RICHARDSON CO, THE**, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Servomechanisms, Inc.**, 142 Mineola Blvd., Mineola, N. Y.
- Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- States Co.**, 19 New Park Ave., Hartford 6, Conn.
- Taylor Fibre Co.**, Norristown, Pa.
- Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- U. S. Engineering Co.**, 521 Commercial St., Glendale 3, Calif.
- Wade Electric Products Co.**, 211 Jacob St., Sturgis, Mich.
- Waterbury Companies, Inc.**, Waterbury 90, Conn.

- Electronic Mechanics Inc.**, 70 Clifton Blvd., Clifton, N. J.
- FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Franklin Mfg. Corp.**, A. W., 43-20 34th St., Long Island City, N. Y.
- GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Greene Mfg. Corp.**, G. G., Warren, Pa.
- HERMETIC SEAL PRODUCTS CO.**, 29-37 South 6th St., Newark 7, N. J. ADV. PG. 87.
- Insulation Mfg. Co.**, 11 New York Ave., Brooklyn, N. Y.
- INSULINE CORP. OF AMERICA**, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- JONES DIV., HOWARD B.**, Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 155.
- Kellogg Switchboard & Supply Co.**, 6650 S. Cicero Ave., Chicago 38, Ill.
- Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- Kolton Electric Mfg. Co.**, 123 New Jersey Railroad Ave., Newark 5, N. J.
- Kulka Electric Mfg. Co., Inc.**, 30 South St., Mt. Vernon, N. Y.
- LaMagna Mfg. Co., Inc.**, East Rutherford, N. J.
- Lamico Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Ill.
- Loral Electronics Corp.**, 794 E. 140th St., New York 54, N. Y.
- Micarta Fabricators, Inc.**, 5324 Ravenswood Ave., Chicago 40, Ill.
- Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Miller Co.**, J. W., 5917 S. Main St., Los Angeles, Calif.
- Molded Insulation Co.**, Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- MOLDING CORP. OF AMERICA**, Pawtucket, R. I., ADV. PG. 230.
- NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- Northern Industrial Chemical Co.**, 7-11 Elkins St., South Boston 27, Mass.
- Penn Fibre & Specialty Co.**, 2020 E. Westmoreland St., Philadelphia 34, Pa.
- Penn-Union Electric Corp.**, 315 State Street, Erie, Pa.
- Philmore Mfg. Co.**, 113 University Place, New York 3, N. Y.
- PRECISION METAL PRODUCTS CO. OF MALDEN**, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- Printloid Inc.**, 95 Mercer St., New York, N. Y.
- Remler Co., Ltd.**, 2101 Bryant St., San Francisco, Calif.
- RICHARDSON CO, THE**, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Servomechanisms, Inc.**, 142 Mineola Blvd., Mineola, N. Y.
- Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- States Co.**, 19 New Park Ave., Hartford 6, Conn.
- Taylor Fibre Co.**, Norristown, Pa.
- Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- U. S. Engineering Co.**, 521 Commercial St., Glendale 3, Calif.
- Vector Electronic Co.**, 1101 Riverside Drive, Los Angeles 31, Calif.
- Wade Electric Products Co.**, 211 Jacob St., Sturgis, Mich.
- Waterbury Companies, Inc.**, Waterbury 90, Conn.

TERMINALS

- AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- Aircraft-Marine Products, Inc.**, 1523 N. Fourth St., Harrisburg, Pa.
- ALDEN PRODUCTS CO.**, 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
- Bead Chain Manufacturing Co.**, 110 Mountain Grove St., Bridgeport 5, Conn.
- Belden Mfg. Co.**, 4647 W. Van Buren St., Chicago 44, Ill.
- BUCHANAN ELECTRICAL PRODUCTS CORP.**, 1290 Central Ave., Hillside, N. J. ADV. PG. 214.
- Burdny Engineering Co., Inc.**, 107 Bruckner Blvd., New York 54, N. Y.
- CAMBRIDGE THERMIONIC CORP.**, 445 Concord Ave., Cambridge, Mass. ADV. PG. 72.
- CINCH MFG. CORP.**, 1026 S. Homan Ave., Chicago 24, Ill. ADV. PG. 154.
- Citation Products Co.**, 233 E. 146th St., New York 51, N. Y.
- Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Cook Electric Co.**, 2700 Southport Ave., Chicago 14, Ill.
- Dante Electric Mfg. Co.**, Bantam, Conn.
- Eastern Specialty Co.**, Philadelphia 40, Pa.

Ⓟ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓟ **FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓟ **Frankel Connector Co.**, 177 Hudson St., New York, N. Y.
- Ⓟ **Franklin Mfg. Corp.**, A. W., 43-20 34th St., Long Island City, N. Y.
- Ⓟ **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓟ **GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- Ⓟ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓟ **GENERAL ELECTRIC CO.**, Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓟ **Grammes & Sons, Inc.**, L. F., 389 Union St., Allentown 2, Pa.
- Ⓟ **Hallett Mfg. Co.**, 1601 Florence Ave., Inglewood, Calif.
- Ⓟ **HEYMAN MFG. CO.**, 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
- Ⓟ **Ilisco Copper Tube & Products Inc.**, Mariemont Ave., Mariemont, Cincinnati 27, Ohio.
- Ⓟ **INSULINE CORP. OF AMERICA**, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- Ⓟ **Isclantite Mfg. Corp.**, Stirling, N. J.
- Ⓟ **Johnson Co.**, E. F., Waseca, Minn.
- Ⓟ **Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- Ⓟ **Kolton Electric Mfg. Co.**, 123 New Jersey Railroad Ave., Newark 5, N. J.
- Ⓟ **Kulka Electric Mfg. Co., Inc.**, 30 South St., Mt. Vernon, N. Y.
- Ⓟ **LaMagna Mfg. Co., Inc.**, East Rutherford, N. J.
- Ⓟ **Lewis Engineering Co.**, 52 Rubber Ave., Naugatuck, Conn.
- Ⓟ **Loral Electronics Corp.**, 794 E. 140th St., New York 54, N. Y.
- Ⓟ **LUNDEY ASSOCIATES**, Mfg. Div., 694 Main St., Waltham 54, Mass. ADV. PG. 277.
- Ⓟ **MALCO TOOL & MFG. CO.**, 4025 W. Lake St., Chicago 24, Ill. ADV. PG. 234.
- Ⓟ **Micarta Fabricators, Inc.**, 5324 Ravenswood Ave., Chicago 40, Ill.
- Ⓟ **Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Ⓟ **Molded Insulation Co.**, Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓟ **MOLDING CORP. OF AMERICA**, Pawtucket, R. I. ADV. PG. 230.
- Ⓟ **Moise Co.**, Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
- Ⓟ **National Screw & Mfg. Co.**, Cleveland 4, Ohio.
- Ⓟ **PA-TON-MACGUYER CO.**, 17 Virginia Ave., Providence 5, R. I. ADV. PG. 138.
- Ⓟ **PRECISION METAL PRODUCTS CO. OF MALDEN**, 342 Eastern Ave., Malden 48, Mass. ADV. PG. 220.
- Ⓟ **St. Mary's Carbon Co.**, State Rd., St. Marys, Pa.
- Ⓟ **Schott Co.**, Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓟ **Shakeproof Inc.**, Div. of Illinois Tool Wks., 2501 N. Keeler Ave., Chicago 39, Ill.
- Ⓟ **Sherman Mfg. Co.**, H. B., 22 Barney St., Battle Creek, Mich.
- Ⓟ **Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓟ **Stimpson Co., Inc.**, Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
- Ⓟ **Thomas & Betts Co., Inc.**, 36 Butler St., Elizabeth, N. J.
- Ⓟ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓟ **Triad Transformer Mfg. Co.**, 2254 Sepulveda Blvd., Los Angeles 64, Calif.
- Ⓟ **United Shoe Machinery Corp.**, 142 Federal St., Boston 3, Mass.
- Ⓟ **U. S. Engineering Co.**, 521 Commercial St., Glendale 3, Calif.
- Ⓟ **Vaco Products Co.**, 317 E. Ontario St., Chicago 11, Ill.
- Ⓟ **Waste Electric Products Co.**, 211 Jacob St., Sturgis, Mich.
- Ⓟ **Waterbury Companies, Inc.**, Waterbury 90, Conn.
- Ⓟ **Zierick Mfg. Corp.**, Beechwood & Rockdale Aves., New Rochelle, N. Y.

TERMINALS—Hermetically Sealed

- Electronic Mechanics, Inc., 70 Clifton Blvd., Clifton, N. J.
- Ⓟ **Fuste Corp.**, Carthage at Hannaford, Cincinnati 12, Ohio.
- Ⓟ **GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- Ⓟ **Helcor Bushing & Terminal Co., Inc.**, P. O. Box 91, Orange, N. J.
- Ⓟ **HERMASEAL CO., INC.**, Riverside Drive, Elkhart, Ind. ADV. PG. 264.
- Ⓟ **Litton Industries**, San Carlos, Calif.
- Ⓟ **LUNDEY ASSOCIATES**, Mfg. Div., 694 Main St., Waltham 54, Mass. ADV. PG. 277.
- Ⓟ **MOLDING CORP. OF AMERICA**, Pawtucket, R. I. ADV. PG. 230.
- Ⓟ **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, Pa. ADV. PG. 147.
- Ⓟ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- Ⓟ **Triad Transformer Mfg. Co.**, 2254 Sepulveda Blvd., Los Angeles 64, Calif.

- Ⓟ **Vitreoseal Corp.**, The, 918 Oak St., Wyoming, Cincinnati 15, Ohio.
- Ⓟ **Wheaton Co., T. C.**, Industrial Division, 220 G Street, Millville, N. J.

TEST CHAMBERS

See Chambers, Test

TESTERS—Automatic Tube and Set

- Ⓟ **BUCK ENGINEERING CO.**, 37-41 Marcy St., Freehold, N. J. ADV. PG. 194.
- Ⓟ **Coastwise Electronics Corp.**, 130 N. Beaudry Ave., Los Angeles, Calif.
- Ⓟ **Dayco Radio Corp.**, 915 Valley St., Dayton 4, Ohio.
- Ⓟ **Feiler Engineering Co.**, 1601 S. Federal St., Chicago 16, Ill.
- Ⓟ **Metropolitan Electronics & Instruments Co.**, 106 Fifth Ave., New York 11, N. Y.
- Ⓟ **Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- Ⓟ **Radio City Products Co., Inc.**, 152 W. 25th St., New York 1, N. Y.
- Ⓟ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓟ **Simpson Electric Co.**, Div. American Gage & Machine Co., 5208 W. Kinzie St., Chicago, Ill.
- Ⓟ **Star Measurements Co.**, 442 East 166th St., New York 56, N. Y.
- Ⓟ **Supreme, Inc.**, Greenwood, Miss.
- Ⓟ **SYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- Ⓟ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TESTERS—Battery

- Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- Ⓟ **Electric Heat Control Co.**, 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓟ **Feiler Engineering Co.**, 1601 S. Federal St., Chicago 16, Ill.
- Ⓟ **HEATH CO.**, Benton Harbor, Mich. ADV. PG. 279.
- Ⓟ **International Instruments, Inc.**, 331 East St., New Haven 11, Conn.
- Ⓟ **J B T INSTRUMENTS, INC.**, 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- Ⓟ **McColpin-Christie Corp.**, 4922 S. Figueroa St., Los Angeles 37, Calif.
- Ⓟ **Metropolitan Electronics & Instruments Co.**, 106 Fifth Ave., New York 11, N. Y.
- Ⓟ **Rectifier Engineering Co.**, 1803 E. Seventh St., Los Angeles 21, Calif.
- Ⓟ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓟ **Simpson Electric Co.**, Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓟ **Sterling Mfg. Co.**, 9205 Detroit Ave., Cleveland 2, Ohio.
- Ⓟ **Supreme, Inc.**, Greenwood, Miss.
- Ⓟ **Triplett Electrical Instruments Co.**, 286 Harmon Rd., Bluffton, Ohio.
- Ⓟ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓟ **Willard Storage Battery Co.**, 246 E. 131st St., Cleveland 1, Ohio.

TESTERS—Capacitor

- Ⓟ **Aerovox Corp.**, 740 Belleville Ave., New Bedford, Mass.
- Ⓟ **Bradshaw Instruments Co.**, 348 Livingston St., Brooklyn 17, N. Y.
- Ⓟ **BROWN-ELECTRO MEASUREMENT CORP.**, 4637 SE Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
- Ⓟ **Clippard Instrument Laboratory, Inc.**, 1125 Bank St., Cincinnati 14, Ohio.
- Ⓟ **Crough Bregle Co.**, 6014 N. Broadway, Chicago, Ill.
- Ⓟ **CORNELL-DUBILIER ELECTRIC CORP.**, South Plainfield, N. J. ADV. PG. 70.
- Ⓟ **Electric Heat Control Co.**, 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓟ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓟ **HEATH CO.**, Benton Harbor, Mich. ADV. PG. 279.
- Ⓟ **Industrial Instruments Inc.**, 17 Pollack Ave., Jersey City 5, N. J.
- Ⓟ **Jackson Electrical Instrument Co.**, 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓟ **Kalbfell Labs., Inc.**, 1076 Morena Blvd., San Diego 10, Calif.
- Ⓟ **McMurdo Silver Co., Inc.**, 1240 Main St., Hartford 3, Conn.
- Ⓟ **Metropolitan Electronics & Instruments Co.**, 106 Fifth Ave., New York 11, N. Y.
- Ⓟ **Radio City Products Co., Inc.**, 152 W. 25th St., New York 1, N. Y.
- Ⓟ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓟ **Simpson Electric Co.**, Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓟ **Sprague Electric Co.**, North Adams, Mass.
- Ⓟ **Takk Corp.**, Newark, Ohio.
- Ⓟ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TESTERS—Circuit

- Ⓟ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Ⓟ **Biddle Co.**, James G., 1316 Arch St., Philadelphia 7, Pa.
- Ⓟ **Bradshaw Instrument Co.**, 348 Livingston St., Brooklyn 17, N. Y.
- Ⓟ **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓟ **Communication Measurements Lab., Inc.**, 120 Greenwich St., New York, N. Y.
- Ⓟ **CORNELL-DUBILIER ELECTRIC CORP.**, South Plainfield, N. J. ADV. PG. 70.
- Ⓟ **Electronic Workshop, Inc.**, 351 Bleecker St., New York 14, N. Y.
- Ⓟ **Feiler Engineering Co.**, 1601 S. Federal St., Chicago 16, Ill.
- Ⓟ **Fordham Mfg. Co.**, 2220 Pearsall Ave., New York 67, N. Y.
- Ⓟ **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓟ **Gits Molding Corp.**, 4600 W. Huron St., Chicago 44, Ill.
- Ⓟ **Industrial Devices, Inc.**, 22 State Rd., Edgewater, N. J.
- Ⓟ **Instrument Laboratories**, 315 W. Walton Place, Chicago 10, Ill.
- Ⓟ **Jackson Electrical Instrument Co.**, 16 S. Patterson Blvd., Dayton 1, Ohio.
- Ⓟ **Metropolitan Electronics & Instruments Co.**, 106 Fifth Ave., New York 11, N. Y.
- Ⓟ **Meissner Mfg. Div.**, Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓟ **Oak Ridge Products Mfg. Div. of Video Television, Inc.**, 239 E. 127th St., New York 35, N. Y.
- Ⓟ **Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- Ⓟ **Precision Apparatus Co., Inc.**, 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- Ⓟ **Precision Electronics**, 641 Milwaukee Ave., Chicago 22, Ill.
- Ⓟ **Radex Corp.**, 2076 N. Elston Ave., Chicago 14, Ill.
- Ⓟ **Radio City Products Co., Inc.**, 152 W. 25th St., New York 1, N. Y.
- Ⓟ **Reiner Electronics Co.**, 152 W. 25th Street, New York, N. Y.
- Ⓟ **Roller-Smith**, Bethlehem, Pa.
- Ⓟ **SHALLCROSS MFG. CO.**, 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓟ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓟ **Simpson Electric Co.**, Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓟ **Star Measurements Co.**, 442 E. 166th St., New York 56, N. Y.
- Ⓟ **Super Instruments Co.**, 337 Fulton St., New York 7, N. Y.
- Ⓟ **Supreme, Inc.**, Greenwood, Miss.
- Ⓟ **WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓟ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TESTERS—Coating Thickness

- American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
- Ⓟ **Branson Instruments, Inc.**, 438 Fairfield Ave., Stamford, Conn.
- Ⓟ **Gardner Lab., Inc.**, Henry A., 4723 Elm St., Bethesda 14, Md.
- Ⓟ **Marconi Instruments, Ltd.**, 23 Beaver St., New York 4, N. Y.
- Ⓟ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓟ **Tracerlab, Inc.**, 130 High St., Boston 10, Mass.

TESTERS—Coil

- Ⓟ **Biddle Co.**, James G., 1316 Arch St., Philadelphia 7, Pa.
- Ⓟ **BROWN ELECTRO-MEASUREMENT CORP.**, 4637 SE Hawthorne Blvd., Portland 15, Ore. ADV. PG. 276.
- Ⓟ **Crough Bregle Co.**, 6014 N. Broadway, Chicago, Ill.
- Ⓟ **Electric Heat Control Co.**, 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓟ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Ⓟ **Gits Molding Corp.**, 4600 W. Huron St., Chicago 44, Ill.
- Ⓟ **Haydu Brothers**, Plainfield, N. J.
- Ⓟ **Kartron, Inc.**, Box 472, Huntington Beach, Calif.
- Ⓟ **Photobell Company**, 116 Nassau St., New York 7, N. Y.
- Ⓟ **Rubicon Co.**, 3751 Ridge Ave., Philadelphia, Pa.
- Ⓟ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.

TESTERS—Color Infra Red

- Ⓟ **PRECISE MEASUREMENTS CO.**, 942 Kings Highway, Brooklyn 23, N. Y. ADV. PG. 250.

TESTERS—Continuity

- Ⓟ **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓟ **CORNELL-DUBILIER ELECTRIC CORP.**, South Plainfield, N. J. ADV. PG. 70.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ELECTRONIC DESIGNS INC., Irvington, N. Y. ADV. PG. 199.
- Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- GENERAL CEMENT MFG. CO., 919 Taylor Ave. Rockford, Ill. ADV. PG. 273.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.
- Instrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
- Karttron Inc., Box 472, Huntington Beach, Calif.
- SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
- Supreme, Inc., Greenwood, Miss.

TESTERS—Crystal Testing

- Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Berkshire Laboratories, P. O. Box 70, Concord, Mass.
- CLARK CRYSTAL CO., 2 Farm Rd., Marlboro, Mass. ADV. PG. 210.
- ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- KNIGHTS CO., JAMES, 131 S. Wells St., Sandwich, Ill. ADV. PG. 190.
- Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
- PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.
- SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

TESTERS—Distortion

- Audio Instrument Co., 1947 Broadway, New York 23, N. Y.
- BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Doolittle Radio, Inc., 741 S. Loomis Blvd., Chicago 36, Ill.
- FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Hofmann Corp., C. L., 436 Blvd. of Allies, Pittsburgh, Pa.
- Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

TESTERS—Ink Penetration

- Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Thwing-Albert Instrument Co., 5351 Pulaski Avenue, Philadelphia 44, Pa.

TESTERS—Insulation

- ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- BETA ELECTRIC CORP., 1762 3rd Ave., New York 29, N. Y. ADV. PG. 171.
- Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Electronic Brazing Co., 140 Glenridge Ave., Montclair, N. J.
- FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Holtzer-Cabot, Div. of National Pneumatic Co., Inc., 125 Amory St., Boston 19, Mass.
- Ideal Industries Inc., Park & Borden Avenues, Sycamore, Ill.
- Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- Photobell Company, 116 Nassau St., New York 7, N. Y.

- Radio City Products Co., Inc., 152 W. 25th St., New York 1, N. Y.
- RADIO FREQUENCY LABS., INC., Boonton 2, N. J. ADV. PG. 172.
- Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N. Y.
- Takk Corp., Newark, Ohio.
- WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TESTERS—Meter

- Booth Co., Arthur B., 4124 Beverly Blvd., Los Angeles 4, Calif.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.
- MARION ELECTRICAL INSTRUMENT CO., Manchester, N. H. ADV. PG. 130.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.
- Radio City Products Co., Inc., 152 W. 25th St., New York 1, N. Y.
- RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Reiner Electronics Co., 152 W. 25th St., New York, N. Y.
- Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.
- Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TESTER—Microwave Radar Testing Equipment

- American Electroneering Co., 2112 S. LaBrea Ave., Los Angeles, Calif.
- Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.
- General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.
- GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- Leru Laboratories, Inc., 360 Bleecker St., New York 14, N. Y.
- Liton Industries, San Carlos, Calif.
- Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
- Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Microwave Equipment Co., Inc., North Caldwell, N. J.
- PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- Philco Corp., Tioga and C Sts., Philadelphia 34, Pa.
- Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- SPERRY GYROSCOPE CO., Div. of Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Varian Associates, 99 Washington St., San Carlos, Calif.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

TESTERS—Moisture Detection

- Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- MEASUREMENTS CORP., Boonton, N. J. ADV. PG. 145.
- North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TESTERS—Radar Tube

- Microwave Equipment Co., Inc., North Caldwell, N. J.
- POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

TESTERS—Transconductance Tube

- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Philco Corp., Tioga and C Sts., Philadelphia 34, Pa.
- Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- Radio City Products Co., Inc., 152 W. 25th St., New York 1, N. Y.
- Sensitive Research Instrument Corporation, 9 Elm Ave., Mt. Vernon, N. Y.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TESTERS—Voltage Neon

- ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- Dante Electric Mfg. Co., Bantam, Conn.
- Fordham Mfg. Co., 2220 Pearsall Ave., New York 67, N. Y.
- Fox Valley Instrument Co., Ingleside, Ill.
- Ideal Industries, Inc., Park & Borden Aves., Sycamore, Ill.
- Industrial Devices, Inc., 22 State Rd., Edgewater, N. J.
- Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- Mineralac Electric Co., 25 N. Peoria St., Chicago, Ill.
- Nichols Products Co., Moorestown, N. J.
- Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Superior Instruments Co., 227 Fulton St., New York 7, N. Y.
- WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

THERMISTORS

- Friez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- KEYSTONE CARBON CO., INC., Saint Marys, Pa. ADV. PG. 42.
- North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- SERVO CORP. OF AMERICA, 2020 Jericho Turnpike, New Hyde Park, N. Y. ADV. PG. 269.
- Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- STUPAKOFF CERAMIC & MFG. CO., Latrobe, Pa. ADV. PG. 147.

THERMOCOUPLES

- American Thermo Electric Co., 67 E. 8th St., New York 3, N. Y.
- Atlas Coil Winders, Inc., Stamford, Conn.
- Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Bristol Co., The, Waterbury 20, Conn.
- Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- FIELD ELECTRICAL INSTRUMENT CO., 109 E. 184th St., New York 53, N. Y. ADV. PG. 204.
- Foxboro Co., The, Foxboro, Mass.
- General Controls Co., Glendale 1, Calif.
- GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- J B T INSTRUMENTS INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

Ⓟ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓟ Perkin-Elmer Corp., The, Glenbrook, Conn.
- Ⓟ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- Ⓟ Reeder & Co., Charles M., 171 Victor Ave., Detroit 3 Mich.
- Ⓟ Richards Co., Inc., Arklay S., 78 Winchester St., Newton Highlands 61, Mass.
- Ⓟ Sensitive Research Instrument Corporation, 9 Elm Ave., Mt. Vernon, N. Y.
- Ⓟ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓟ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- Ⓟ Uniform Tubes, Shurs Lane & Larviston St., Roxborough, Philadelphia, Pa.
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓟ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓟ Wheelco Instruments Co., 847 W. Harrison St., Chicago 7 Ill.

THERMOCOUPLES—Pyrometric

- Ⓟ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓟ Bistol Co., The, Waterbury 20, Conn.
- Ⓟ Cable Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓟ Daltons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- Ⓟ Foxboro Co., The, Foxboro, Mass.
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓟ Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- Ⓟ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓟ Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Ⓟ Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
- Ⓟ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓟ Reeder & Co., Charles M., 171 Victor Ave., Detroit 3 Mich.
- Ⓟ Richards Co., Inc., Arklay S., 78 Winchester St., Newton Highlands 61, Mass.
- Ⓟ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- Ⓟ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓟ Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

THERMOMETERS—Platinum Contact

- Ⓟ Mack Electrical Devices, Inc., 43 Glenside Ave., Wyncote, Pa.
- Ⓟ Nurnberg Thermometer Co., 4 Corey St., Boston 32, Mass.
- Ⓟ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.

THERMOMETERS—Resistance

- Ⓟ Bailey Meter Co., 1044 Ivanhoe Rd., Cleveland 10, Ohio.
- Ⓟ Cable Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- Ⓟ EDISON, INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129.
- Ⓟ Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.
- Ⓟ Foxboro Co., The, Foxboro, Mass.
- Ⓟ Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.
- Ⓟ J. B. T. INSTRUMENTS, INC., 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- Ⓟ Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
- Ⓟ Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Ⓟ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓟ Ruze-de Forest, Inc., 76 Massachusetts Ave., Cambridge 39, Mass.
- Ⓟ SHALLCROSS MFG. CO., 10 Jackson Ave., Collingdale, Pa. ADV. PG. 221.
- Ⓟ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- Ⓟ Thwing-Albert Instrument Co., 5351 Pulaski Ave., Philadelphia 44, Pa.
- Ⓟ Trans-sonics, Inc., Bedford Airport, Bedford, Mass.
- Ⓟ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓟ Wheelco Instruments Co., 847 W. Harrison St., Chicago 7, Ill.

THERMOPILES

- Ⓟ Atlas Coil Winders, Inc., Stamford, Conn.
- Ⓟ Epoley Lab., Inc., The, Newport, R. I.
- Ⓟ FIELD ELECTRICAL INSTRUMENT CO., 109 E. 184th St., New York 53, N. Y. ADV. PG. 204.
- Ⓟ Illinois Testing Labs., Inc., 420 N. LaSalle St., Chicago 10, Ill.

- Ⓟ Litton Industries, San Carlos, Calif.
- Ⓟ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- Ⓟ Perkin-Elmer Corp., The, Glenbrook, Conn.
- Ⓟ Reeder & Co., Charles M., 171 Victor Ave., Detroit 3 Mich.

THYRATRONS

See Tubes

TIMERS—Automatic Cycle

- Ⓟ Adams & Westlake Co., Michigan St., Elkhart, Ind.
- Ⓟ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓟ Automatic Signal Division, 100 Regent St., East Norwalk, Conn.
- Ⓟ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓟ Bristol Co., The, Waterbury 20, Conn.
- Ⓟ Coral Designs, Box 248, Forest Hills, N. Y.
- Ⓟ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Ⓟ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓟ Eagle Signal Corp., Moline, Illinois.
- Ⓟ Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- Ⓟ GENERAL CONTROL COMPANY, 1200 Soldiers Field Rd., Boston 34, Mass. ADV. PG. 149.
- Ⓟ General Controls Co., Glendale 1, Calif.
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓟ HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Ⓟ HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- Ⓟ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- Ⓟ Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
- Ⓟ Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
- Ⓟ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓟ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- Ⓟ Paragon Electric Co., Two Rivers, Wis.
- Ⓟ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓟ Robotron Corp., 5570 W. Chicago Blvd., Detroit 4, Mich.
- Ⓟ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
- Ⓟ Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
- Ⓟ Wallace & Tiernan Products, Inc., Belleville 9, N. J.
- Ⓟ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- Ⓟ Wilson & Co., G. C., 2 N. Passaic Ave., Chatham, N. J.
- Ⓟ Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Automatic Interval

- Ⓟ Adams & Westlake Co., Michigan St., Elkhart, Ind.
- Ⓟ Airborne Electronics Co., Metropolitan Airport, Hangar No. 3, Van Nuys, Calif.
- Ⓟ Airtron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓟ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓟ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓟ Coral Designs, Box 248, Forest Hills, N. Y.
- Ⓟ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Ⓟ Deitz Co., S. J., Box 65, W. Englewood, N. J.
- Ⓟ Dimco-Gray Co., 207 E. Sixth St., Dayton, Ohio.
- Ⓟ Eagle Signal Corp., Moline, Ill.
- Ⓟ Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
- Ⓟ GENERAL CONTROL COMPANY, 1200 Soldiers Field Rd., Boston 34, Mass. ADV. PG. 149.
- Ⓟ General Controls Co., Glendale 1, Calif.
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓟ General Electric X-Ray Corp., 4855 W. McGeech Ave., Milwaukee, Wis.
- Ⓟ HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Ⓟ HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- Ⓟ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓟ Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- Ⓟ Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
- Ⓟ Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
- Ⓟ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- Ⓟ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- Ⓟ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.

- Ⓟ Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
- Ⓟ Paragon Electric Co., Two Rivers, Wis.
- Ⓟ Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
- Ⓟ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓟ Pratt & Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.
- Ⓟ Reliance Automatic Lighting Co., 1919 Mead St., Racine, Wis.
- Ⓟ Rhodes Inc., M. A., 30 Bartholomew Ave., Hartford, Conn.
- Ⓟ Robotron Corp., 5570 W. Chicago Blvd., Detroit 4, Mich.
- Ⓟ Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
- Ⓟ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
- Ⓟ TELECHRON INC., Homer Ave., Ashland, Mass. ADV. PG. 197.
- Ⓟ Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
- Ⓟ Tracerlab, Inc., 130 High St., Boston 10, Mass.
- Ⓟ Wallace & Tiernan Products, Inc., Belleville 9, N. J.
- Ⓟ Walsler Automatic Timer Corp., Graybar Building, New York, N. Y.
- Ⓟ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52.
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓟ Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Automatic Reset

- Ⓟ Airtron, Inc., P. O. Box 151, Caldwell, N. J.
- Ⓟ ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. PG. 218.
- Ⓟ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓟ Berkeley Scientific Co., Richmond, Calif.
- Ⓟ Coral Designs, Box 248, Forest Hills, N. Y.
- Ⓟ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Ⓟ Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
- Ⓟ Eagle Signal Corp., Moline, Illinois.
- Ⓟ GENERAL CONTROL COMPANY, 1200 Soldiers Field Rd., Boston 34, Mass. ADV. PG. 149.
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓟ HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Ⓟ HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- Ⓟ Industrial Electronics Co., Inc., Hanover, Mass.
- Ⓟ Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- Ⓟ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. 214.
- Ⓟ Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
- Ⓟ Liebel-Flarsheim Co., 303 W. Third St., Cincinnati 2, Ohio.
- Ⓟ Lumeite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
- Ⓟ Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue S., Minneapolis, Minn.
- Ⓟ Paragon Electric Co., Two Rivers, Wisconsin.
- Ⓟ POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
- Ⓟ QUAKER CITY GEAR WORKS, 1908-32 N. Front St., Philadelphia 22, Pa. ADV. PG. 272.
- Ⓟ Robotron Corp., 5570 W. Chicago Blvd., Detroit 4, Mich.
- Ⓟ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓟ Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
- Ⓟ Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
- Ⓟ Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N. J.
- Ⓟ WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52.
- Ⓟ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓟ Wilson & Co., G. C., 2 N. Passaic Ave., Chatham, N. J.
- Ⓟ Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Hour Counting

- Ⓟ Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
- Ⓟ CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
- Ⓟ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓟ Gorrell & Gorrell, Haworth, N. J.
- Ⓟ Harshaw Scientific Div., of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Ⓟ HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
- Ⓟ HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
- Ⓟ Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
 V National Instrument Co., 246 Walnut St., Newtonville 60, Mass.
 V Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
 V Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
 V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Impulse

V ATOMIC INSTRUMENT CO., 160 Charles St., Boston, Mass. ADV. 218.
 V Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 V Berkeley Scientific Co., Richmond, Calif.
 V Coral Designs, Box 248, Forest Hills, N. Y.
 V CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
 V Eagle Signal Corp., Moline, Illinois.
 V Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
 V Gorrell & Gorrell, Haworth, N. J.
 V HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
 V Industrial Electronics Co., Inc., Hanover, Mass.
 V Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
 V Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
 V POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
 V Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
 V Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
 V Tracerlab Inc., 130 High St., Boston 10, Mass.
 V Wallace & Tiernan Products, Inc., Belleville 9, N. J.
 Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Inertia

V Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.

TIMERS—Motor Operated

V Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
 V Amglo Corp., 4234 Lincoln Ave., Chicago 18, Ill.
 V Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 V CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
 V Eagle Signal Corp., Moline, Illinois.
 V Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
 V General Controls Co., Glendale 1, Calif.
 V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 V Gorrell & Gorrell, Haworth, N. J.
 V HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
 V HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
 V Industrial Electronics Co., Inc., Hanover, Mass.
 V Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
 V KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
 V Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
 V Liebel-Flarsheim Co., 303 W. Third St., Cincinnati 2, Ohio.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
 V Paragon Electric Co., Two Rivers, Wisconsin.
 V Price Electric Corp., Frederick, Md.
 V Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
 V Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
 V Standard Electric Time Co., The, 89 Logan St., Springfield, Mass.
 V Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
 V TELECHRON INC., Homer Ave., Ashland, Mass. ADV. PG. 197.
 V Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
 V Tracerlab, Inc., 130 High St., Boston 10, Mass.
 V WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. 51, 52.
 V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Multicontact

V Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 V CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
 V Eagle Signal Corp., Moline, Illinois.
 V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 V HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
 V HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
 V Industrial Timer Corp., 155 Edison Pl., Newark 5, N. J.
 V Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
 V Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
 V WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52.
 V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Percentage

V Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 V CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
 V Eagle Signal Corp., Moline, Ill.
 V HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
 V Tuttle & Kift, 1823 N. Monitor St., Chicago 39, Ill.
 Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Photoelectric

V Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 V Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee, Wis.
 V Deitz Co., S. J., Box 65, W. Englewood, N. J.
 V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 V Industrial Electronics Co., Inc., Hanover, Mass.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago, Ill.
 V Photobell Company, 116 Nassau St., New York 7, N. Y.
 V Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
 V POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
 V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TIMERS—Sequence

V Adams & Westlake Co., Michigan St., Elkhart, Ind.
 V Airlectron, Inc., P. O. Box 151, Caldwell, N. J.
 V Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 V Coral Designs, Box 248, Forest Hills, N. Y.
 V CRAMER CO., INC., R. W., Box 13, Centerbrook, Conn. ADV. PG. 208.
 V Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
 V Eagle Signal Corp., Moline, Illinois.
 V Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.
 V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 V Gorrell & Gorrell, Haworth, N. J.
 V HAYDON CO., A. W., THE, 232 N. Elm St., Waterbury, Conn. ADV. PG. 236.
 V HAYDON MFG. CO., INC., 584 E. Elm St., Torrington, Conn. ADV. PG. 102, 103.
 V Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
 V Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
 V Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
 V Paragon Electric Co., Two Rivers, Wisconsin.
 V POTTER INSTRUMENT CO., INC., 115 Cutter Mill Rd., Great Neck, N. Y. ADV. PG. 204.
 Robotron Corp., 5570 W. Chicago Blvd., Detroit 4, Mich.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
 V Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
 V Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
 V Walsing Automatic Timer Corp., Graybar Bldg., New York, N. Y.
 Weltronic Co., 19500 West 8 Mile Rd., Detroit 19, Mich.
 V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 V Wilson & Co., G. C., 2 N. Passaic Ave., Chatham, N. J.
 Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.

TIMERS—Thermal

V EDISON, INC., THOMAS A., Instrument Div., West Orange, N. J. ADV. PG. 129.
 V General Controls Co., Glendale 1, Calif.
 V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 V KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
 V Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
 V Spencer Thermostat Co., 34 Forest St., Attleboro, Mass.
 V Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio.
 V Struthers-Dunn, Inc., 150 N. 13th St., Philadelphia 7, Pa.
 V Ulanet Co., George, 413 Market St., Newark 5, N. J.
 V WARD LEONARD ELECTRIC CO., 31 South St., Mt. Vernon, N. Y. ADV. PG. 51, 52.

TIMERS—Welding

V Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 V Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.
 V Coral Designs, Box 248, Forest Hills, N. Y.
 V Cutler-Hammer, Inc., 411 N. 12th St., Milwaukee 1, Wis.
 V Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
 V GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 V Industrial Electronics Co., Inc., Hanover, Mass.
 V Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
 Robotron Corp., 5570 W. Chicago Blvd., Detroit 4, Mich.
 Weltronic Co., 19500 West 8 Mile Road, Detroit 19, Mich.
 V WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
 V Wilson & Co., G. C., 2 N. Passaic Ave., Chatham, N. J.

TITRATION APPARATUS

V Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
 V Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
 V Fischer Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.
 Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 V National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
 V Photovolt Corp., 95 Madison Ave., New York 16, N. Y.

TOOLS—Acetylene Soldering

V Linde Air Products Co., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.

TOOLS—Resistance Soldering

V Ideal Industries, Inc., Park & Borden Avenues, Sycamore, Ill.
 V Progressive Welder Co., 3050 E. Outer Drive, Detroit, Mich.
 V Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

TOOLS—Small Insulated

V AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
 V Bonney Forge & Tool Works, Allentown, Pa.
 V Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
 V Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn.
 V GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
 V J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 V Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
 V Park Metalware Co., 28 Bank St., Orchard Park, N. Y.
 Phonograph Needle Mfg. Co., Inc., 42 Dudley St., Providence 5, R. I.
 V Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 V Stanley Works, The, New Britain, Conn.
 V United Shoe Machinery Corp., 142 Federal St., Boston, Mass.
 V Waterbury Companies, Inc., Waterbury 91, Conn.

TRACERS, RADIOACTIVE

See Isotopes

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

TRACERS—Signal

- Castwise Electronics Corp., 130 N. Beaudry Ave., Los Angeles, Calif.
- Couglas Radio Labs., 40 Wayland St., Boston 25, Mass.
- ELECTRONIC INSTRUMENT CO., INC.**, 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- Feiler Engineering Co.**, 1601 S. Federal St., Chicago 16, Ill.
- HEATH CO.**, Benton Harbor, Mich. ADV. PG. 279.
- McMurdo Silver Co., 1240 Main St., Hartford 3, Conn.
- MEASUREMENTS CORPORATION**, Boonton, N. J. ADV. PG. 145.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Oak Ridge Products Mfg. Div. of Video Television, Inc.**, 239 E. 127th St., New York 35, N. Y.
- Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- Radio City Products Co., Inc.**, 152 W. 25th St., New York 1, N. Y.
- RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- RADIO FREQUENCY LABS., INC.**, Boonton 2, N. J. ADV. PG. 172.
- Reiner Electronics Co.**, 152 W. 25th St., New York, N. Y.
- Special Products Co.**, 9115 Brookville Rd., P. O. Box 471, Silver Spring, Maryland.

TRANSCEIVERS—Aviation

- Bendix Radio Communications Div.**, Bendix Aviation Corp., Baltimore 4, Md.
- Collins Radio Co.**, Cedar Rapids, Iowa.
- Communications Co., Inc.**, 300 Greco Ave., Coral Gables 34, Fla.
- Cossor (Canada), Ltd.**, 301-303 Windsor St., Halifax, N. S., Canada.
- Lear, Inc.**, 110 Ionia Ave., NW., Grand Rapids 2, Mich.
- Mitchell Industries, Inc.**, Camp Wolters, Mineral Wells, Texas.
- Radio Specialty Mfg. Co.**, 2023 S. E. Sixth Ave., Portland 14, Ore.
- Sherren Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- Smuckler & Co., Inc.**, A. F. 202 Tillary St., Brooklyn 1, N. Y.

TRANSCEIVERS—Back-Pack

- BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bendix Radio Communications Div.**, Bendix Aviation Corp., Baltimore 4, Md.
- Communications Co., Inc.**, 300 Greco Ave., Coral Gables 34, Fla.
- Doolittle Radio, Inc.**, 7421 S. Loomis Blvd., Chicago 36, Ill.
- Plastics & Electronics Co.**, 272 Northland Ave., Buffalo 8, N. Y.
- Radio Specialty Mfg. Co.**, 2023 S. E. Sixth Ave., Portland 14, Ore.
- Smuckler & Co., Inc.**, A. F. 202 Tillary St., Brooklyn 1, N. Y.

TRANSCEIVERS—Hand-Pack

- BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bendix Radio Communications Div.**, Bendix Aviation Corp., Baltimore 4, Md.
- Communications Co., Inc.**, 300 Greco Ave., Coral Gables 34, Fla.
- Doolittle Radio, Inc.**, 7421 S. Loomis Blvd., Chicago 36, Ill.
- Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- Radio Specialty Mfg. Co.**, 2023 S. E. Sixth Ave., Portland 14, Ore.
- Radio Transceiver Labs.**, 116-23 Jamaica Ave., Richmond Hill 18, N. Y.
- Smuckler & Co., Inc.**, A. F. 202 Tillary St., Brooklyn 1, N. Y.

TRANSCEIVERS—Lifeboat

- BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Radio Specialty Mfg. Co.**, 2023 S. E. Sixth Ave., Portland 14, Ore.
- Smuckler & Co., Inc.**, A. F. 202 Tillary St., Brooklyn 1, N. Y.

TRANSCEIVERS—uhf

- BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Carnie & Bitter**, 2332 Ontario Rd., NW., Washington 9, D. C.
- Communications Co., Inc.**, 300 Greco Ave., Coral Gables 34, Fla.
- Jamaica Television Mfg. Co.**, 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Kaar Engineering Co.**, 2995 Middlefield Rd., Palo Alto, Calif.

- RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Smuckler & Co., Inc.**, A. F., 202 Tillary St., Brooklyn 1, N. Y.

TRANSCEIVERS—vhf

- BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Bendix Radio Communications Div.**, Bendix Aviation Corp., Baltimore 4, Md.
- Collins Radio Co.**, Cedar Rapids, Iowa.
- Communications Co., Inc.**, 300 Greco Ave., Coral Gables 34, Fla.
- Doolittle Radio, Inc.**, 7421 S. Loomis Blvd., Chicago 36, Ill.
- Jamaica Television Mfg. Co.**, 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Kaar Engineering Co.**, 2995 Middlefield Rd., Palo Alto, Calif.
- Lear, Inc.**, 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Mitchell Industries, Inc.**, Camp Wolters, Mineral Wells, Tex.
- Philco Corp.**, Tioga and C Sts., Philadelphia 34, Pa.
- Radio Specialty Mfg. Co.**, 2023 S.E. Sixth Ave., Portland 14, Ore.
- RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Smuckler & Co., Inc.**, A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Standard Telephones & Cables, Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- Telephonics Corp.**, Park Ave., Huntington, N. Y.

TRANSducers—Ultrasonic

- BRUSH DEVELOPMENT CO.**, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
- Crystal Research Labs., Inc.**, 29 Allyn St., Hartford, Conn.
- Edo Corp.**, College Point, Long Island, N. Y.
- Massa Laboratories**, 3868 Carnegie St., Cleveland, Ohio.
- Piezo Products Co.**, Whitney St., Framingham, Mass.
- RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Submarine Signal Div.**, Raytheon Mfg. Co., Waltham, Mass.
- Westline Electronics Co.**, 11660 Olympic Blvd., Los Angeles 25, Calif.

NOTE:

Throughout all transformer listings:
(h) indicates hermetically sealed types

TRANSFORMERS—Audio

- ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- Acro Products Co.**, 5330 Baltimore Ave., Philadelphia, Pa. (h)
- Acro Transformer Mfg. Corp.**, 21-20 33rd Ave., Long Island City, N. Y. (h)
- Airdesign, Inc.**, 241 Fairfield Ave., Upper Darby, Pa. (h)
- AIRPAX PRODUCTS CO.**, 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- Altec Lansing Corp.**, 161 Avenue of the Americas, New York 13, N. Y. (h)
- American Transformer Co.**, 285 Emmett St., Newark, N. J. (h)
- Audio Development Co.**, 2833 13th Ave. S., Minneapolis 7, Minn. (h)
- Bendix Radio Communications Div.**, Bendix Aviation Corp., Baltimore 4, Md. (h)
- Best Mfg. Co., Inc.**, 1200 Grove St., Irvington 11, N. J. (h)
- Bogen Co., Inc.**, David, 663 Broadway, New York 12, N. Y. (h)
- CHICAGO TRANSFORMER DIV.**, Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225. (h)
- Crest Transformer Corp.**, 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Clarkstan Corp.**, 11927 S.W. Pico Blvd., Los Angeles 64, Calif. (h)
- Davis & Co.**, Dean W., Kentland, Ind. (h)
- Delco Radio Div.**, General Motors Corp., Kokomo, Ind. (h)
- Dinon Coil Co., Inc.**, Caledonia, N. Y. (h)
- Electran Mfg. Co.**, 4596 Elston Ave., Chicago 30, Ill. (h)
- Electrical Windings, Inc.**, 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
- Electro Engineering Works**, 6021 College Ave., Oakland 18, Calif. (h)
- Electronic Products Div.**, Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y. (h)
- ELECTRONIC TRANSFORMER CO., INC.**, 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Empire Coil Co., Inc.**, 238 Huguenot St., New Rochelle, N. Y. (h)
- FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Foster Transformer Co., Inc.**, 3820 Colerain Ave., Cincinnati 23, Ohio. (h)

- FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- General Transformer Co.**, 18240 Harwood Ave., Homewood, Ill. (h)
- Goslin Electric & Mfg. Co.**, 2921 W. Olive St., Burbank, Calif. (h)
- Gramer Company, The**, 2734 N. Pulaski Rd., Chicago 39, Ill. (h)
- Haldorson Company, The**, 4500 Ravenswood Ave., Chicago 40, Ill. (h)
- Hartley Co., Ltd.**, H. A., 152 Hammersmith Rd., London W. 6, England. (h)
- HIGHLAND ENGINEERING CO.**, 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Inductive Equipment Co.**, Gettysburg, Pa. (h)
- Jefferson Electric Co.**, Bellwood, Ill. (h)
- JENSEN MFG. CO.**, 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91. (h)
- K-V Transformer Corp.**, 4414 Park Ave., New York 57, N. Y. (h)
- KENYON TRANSFORMER CO., INC.**, 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
- Langevin Mfg. Corp.**, 37 W. 65th St., New York 23, N. Y. (h)
- Lenkurt Electric Co., Inc.**, San Carlos, Calif. (h)
- Magnetic Windings Div.**, Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- Melco Products, Inc.**, 22 E. Hennepin Ave., Minneapolis 1, Minn. (h)
- Merit Coil & Transformer Corp.**, 4427 N. Clark St., Chicago 40, Ill. (h)
- NEW YORK TRANSFORMER CO., INC.**, Third Ave., Alpha, N. J. ADV. PG. 184. (h)
- Peerless Electrical Products Co.**, 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Permoflux Corp.**, 4900 W. Grand Ave., Chicago 39, Ill. (h)
- Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa. (h)
- Philmore Mfg. Co.**, 113 University Place, New York 3, N. Y. (h)
- RADIO CORP. OF AMERICA**, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers. (h)
- Radio-Music Corp.**, Port Chester, N. Y. (h)
- Radionic Transformer Co.**, 411 S. Sangamon St., Chicago 7, Ill. (h)
- RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257. (h)
- Red Arrow Electric Corp.**, 100 Coit St., Irvington 11, N. J. (h)
- ROLA CO. INC.**, 2530 Superior Ave., Cleveland 14, Ohio. ADV. PG. 43. (h)
- S. N. C. Mfg. Co., Inc.**, Box 277, Oshkosh, Wis. (h)
- Southwestern Industrial Electronic Co.**, 2831 Post Oak Rd., Houston 19, Tex. (h)
- Standard Electrical Products Co.**, 402 E. 1st St., Dayton, Ohio. (h)
- STANDARD TRANSFORMER CORP.**, Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- Super Electric Products Corp.**, 46 Oliver St., Newark, N. J. (h)
- Tele-Video Corp.**, 241 Fairfield Ave., Upper Darby, Pa. (h)
- Thermador Electric Mfg. Co.**, 5119 District Blvd., Los Angeles 22, Calif. (h)
- Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Transformer Engineers**, 389 South Arroyo Parkway, Pasadena, Calif. (h)
- Triad Transformer Mfg. Co.**, 2254 Sepulveda Blvd., Los Angeles, Calif. (h)
- Union Electric Products Co.**, 24 Edison Pl., Newark 2, N. J. (h)
- UNITED TRANSFORMER CO.**, 150 Varick St., New York 13, N. Y. Inside Front Cover. (h)
- UNIVERSITY LOUDSPEAKERS, INC.**, 80 Kensico Ave., White Plains, N. Y. ADV. PG. 231. (h)
- Utah, Inc.**, E. Franklin St., Huntington, Ind. (h)
- WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- Wheeler Insulated Wire Co., Inc.**, 150 E. Aurora St., Waterbury 91, Conn. (h)

TRANSFORMERS—Auto

- ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- Acro Products Co.**, 5330 Baltimore Ave., Philadelphia, Pa. (h)
- Acro Transformer Mfg. Corp.**, 21-20 33rd Ave., Long Island City, N. Y. (h)
- Airdesign, Inc.**, 241 Fairfield Ave., Upper Darby, Pa. (h)
- AIRPAX PRODUCTS CO.**, 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- Altec Lansing Corp.**, 161 Avenue of the Americas, New York 13, N. Y. (h)
- American Transformer Co.**, 285 Emmett St., Newark, N. J. (h)
- Audio Development Co.**, 2833 13th Ave. S., Minneapolis 7, Minn. (h)
- Bendix Radio Communications Div.**, Bendix Aviation Corp., Baltimore 4, Md. (h)
- CHICAGO TRANSFORMER DIV.**, Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225. (h)

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Ⓢ Davis & Co., Dean W., Kentland, Ind. (h)
- Ⓢ Dinion Coil Co., Inc., Caledonia, N. Y. (h)
- Ⓢ Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich. (h)
- Ⓢ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J. (h)
- Ⓢ Electron Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)
- Ⓢ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
- Ⓢ Electriccoil Transformer Co., Westerly Rd., Ossining, N. Y. (h)
- Ⓢ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
- Ⓢ ELECTRONIC TRANSFORMER CO. INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓢ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Ⓢ Foster Transformer Co., Inc., 3820 Colerain Ave., Cincinnati 23, Ohio. (h)
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓢ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49. (h)
- Ⓢ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- Ⓢ Gramer Company, The, 2734 N. Pulaski Rd., Chicago 39, Ill. (h)
- Ⓢ Halldorsen Company, The, 4500 Ravenswood Ave., Chicago 40, Ill. (h)
- Ⓢ Hercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y. (h)
- Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓢ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓢ Jefferson Electric Co., Bellwood, Ill. (h)
- Ⓢ JENSEN MFG. CO., 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91. (h)
- Ⓢ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- Ⓢ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
- Ⓢ Langevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y. (h)
- Ⓢ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- Ⓢ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- Ⓢ Melco Products, Inc., 22 E. Hennepen Ave., Minneapolis 1, Minn. (h)
- Ⓢ Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill. (h)
- Ⓢ Miller Co., B. F., P. O. Box 568, Trenton 4, N. J. (h)
- Ⓢ NEW YORK TRANSFORMER CO., INC., Third Ave., Alpha, N. J. ADV. PG. 184. (h)
- Ⓢ Nothelfer Winding Labs., 9 Albermarle Ave., Trenton 3, N. J. (h)
- Ⓢ OPAD-GREEN CO., 71 Warren St., New York 7, N. Y. ADV. PG. 274. (h)
- Ⓢ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓢ Radionic Transformer Co., 411 S. Sangamon St., Chicago 7, Ill. (h)
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257. (h)
- Ⓢ Red Arrow Electric Corp., 100 Coit St., Irvington, N. J. (h)
- Ⓢ S. N. C. Mfg. Co., Box 277, Oshkosh, Wis. (h)
- Ⓢ SORENSON & CO., INC., 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141. (h)
- Ⓢ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓢ STANDARD TRANSFORMER CORP., Elston, Kedzie and Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- Ⓢ Super Electric Products Corp., 46 Oliver St., Newark, N. J. (h)
- Ⓢ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓢ Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- Ⓢ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓢ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
- Ⓢ Union Electric Products Co., 24 Edson Pl., Newark 2, N. J. (h)
- Ⓢ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. Inside Front Cover. (h)
- Ⓢ Wagner Electric Corp., 6400 Plymouth Ave., St. Louis, Mo. (h)
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

TRANSFORMERS—Blocking Oscillator

- Ⓢ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169. (h)
- Ⓢ CHICAGO TRANSFORMER DIV., Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225. (h)
- Ⓢ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178. (h)

- Ⓢ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Ⓢ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
- Ⓢ Electronic Products Div., Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y. (h)
- Ⓢ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓢ Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y. (h)
- Ⓢ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓢ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- Ⓢ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill. (h)
- Ⓢ Halldorsen Co., The, 4500 Ravenswood Ave., Chicago 40, Ill. (h)
- Ⓢ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓢ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- Ⓢ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- Ⓢ Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill. (h)
- Ⓢ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. (h)
- Ⓢ Philmore Mfg. Co., 113 University Place, New York 3, N. Y. (h)
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers. (h)
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257. (h)
- Ⓢ ROLA CO., INC., THE, 2530 Superior Ave., Cleveland 14, Ohio. ADV. PG. 43. (h)
- Ⓢ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- Ⓢ Sickles Co., F. W., P. O. Box 330, Chicopee, Mass. (h)
- Ⓢ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233. (h)
- Ⓢ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓢ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- Ⓢ Super Electric Products Corp., 46 Oliver St., Newark, N. J. (h)
- Ⓢ Teletron Co., The, 4019 Prospect Ave., Cleveland 3, Ohio. (h)
- Ⓢ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓢ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓢ Transformer Engineers, 389 S. Arroyo Pkwy., Pasadena, Calif. (h)
- Ⓢ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
- Ⓢ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
- Ⓢ Utah, Inc., E. Franklin St., Huntington, Ind. (h)
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- Ⓢ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn. (h)

TRANSFORMERS—Current

- Ⓢ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
- Ⓢ Annis Co., R. B., 1101 N. Delaware St., Indianapolis, Ind. (h)
- Ⓢ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill. (h)
- Ⓢ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif. (h)
- Ⓢ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178. (h)
- Ⓢ Davis & Co., Dean W., Kentland, Ind. (h)
- Ⓢ Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich. (h)
- Ⓢ Electron Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)
- Ⓢ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
- Ⓢ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓢ Easterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind. (h)
- Ⓢ Etraco Mfg. Co., Inc., Woods Church Rd., Flemington, N. J. (h)
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓢ Gravoce Labs., Inc., 2 East End Ave., New York 21, N. Y. (h)
- Ⓢ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓢ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓢ INSTRUMENT ELECTRONICS, 42-17 A. Douglaston Pkwy., Douglaston, L. I., N. Y. ADV. PG. 260. (h)
- Ⓢ Instrument Laboratories, 315 W. Walton Place, Chicago 10, Ill. (h)

- Ⓢ Johnson Co., E. F., Waseca, Minn. (h)
- Ⓢ Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J. (h)
- Ⓢ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- Ⓢ Miller Co., B. F., P. O. Box 568, Trenton 4, N. J. (h)
- Ⓢ Nothelfer Winding Labs., 9 Albermarle Ave., Trenton 3, N. J. (h)
- Ⓢ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓢ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257. (h)
- Ⓢ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- Ⓢ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓢ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif. (h)
- Ⓢ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓢ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

TRANSFORMERS—Discriminator

- Ⓢ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- Ⓢ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J. (h)
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169. (h)
- Ⓢ BURNELL & CO., 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59. (h)
- Ⓢ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178. (h)
- Ⓢ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill. (h)
- Ⓢ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓢ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓢ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182. (h)
- Ⓢ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓢ HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46. (h)
- Ⓢ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- Ⓢ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- Ⓢ Millen Mfg. Co., James, 150 Exchange St., Malden, Mass. (h)
- Ⓢ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36. (h)
- Ⓢ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. (h)
- Ⓢ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 18, Ill. ADV. PG. 233. (h)
- Ⓢ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓢ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif. (h)
- Ⓢ Super Electric Products Corp., 46 Oliver St., Newark, N. J. (h)
- Ⓢ Teleradio Engineering Corp., 99 Wall St., New York 5, N. Y. (h)
- Ⓢ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓢ U. S. ELECTRONICS CORP., 276 Warren St., Lyndhurst, N. J. ADV. PG. 266. (h)
- Ⓢ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)

TRANSFORMERS—Impedance Matching

- Ⓢ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- Ⓢ Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa. (h)
- Ⓢ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- Ⓢ Airdesign, Inc., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓢ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
- Ⓢ Audio Development Co., 2833 13th Ave. S., Minneapolis 7, Minn. (h)
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169. (h)
- Ⓢ CHICAGO TRANSFORMER DIV., Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225. (h)
- Ⓢ Cinaudagraph Speakers, Inc., Div. of Aireon Mfg. Corp., 1401 Fairfax Trafficway, Kansas City, Kan. (h)
- Ⓢ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178. (h)
- Ⓢ Communication Products Co., Inc., Broadway and Clark St., Keyport, N. J. (h)
- Ⓢ Crest Transformer Corp., 1834-36 North Ave., Chicago 22, Ill. (h)
- Ⓢ Davis & Co., Dean W., Kentland, Ind. (h)
- Ⓢ Electron Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
- Ⓥ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
- Ⓥ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓥ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Ⓥ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓥ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- Ⓥ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill. (h)
- Ⓥ Halldorson Co., The, 4500 Ravenswood Ave., Chicago 40, Ill. (h)
- Ⓥ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓥ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓥ JENSEN MFG. CO., 6601 S. Laramie Ave., Chicago 38, Ill. ADV. PG. 91. (h)
- Ⓥ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- Ⓥ Langevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y. (h)
- Ⓥ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- Ⓥ Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn 19, N. Y. (h)
- Ⓥ Lynmar Engineers, Inc., 1721 Delancy St., Philadelphia 3, Pa. (h)
- Ⓥ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. and Hobson Blvd., Easton, Pa. (h)
- Ⓥ Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill. (h)
- Ⓥ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36. (h)
- Ⓥ NEW YORK TRANSFORMER CO., INC., Third Ave., Alpha, N. J. ADV. PG. 184. (h)
- Ⓥ Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif. (h)
- Ⓥ Oxford Electric Corp., 3911 S. Michigan Ave., Chicago 15, Ill. (h)
- Ⓥ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓥ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57. (h)
- Ⓥ Product Development Co., Inc., Arlington, N. J. (h)
- Ⓥ Radio-Music Corp., Port Chester, N. Y. (h)
- Ⓥ Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J. (h)
- Ⓥ ROLA CO., INC., THE, 2530 Superior Ave., Cleveland 14, Ohio. ADV. PG. 43. (h)
- Ⓥ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- Ⓥ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓥ STANDARD TRANSFORMER CORP., Elston, Kedzie and Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- Ⓥ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓥ Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- Ⓥ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓥ Transformer Engineers, 389 S. Arroyo Parkway, Pasadena, Calif. (h)
- Ⓥ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
- Ⓥ Union Electric Products Co., 24 Edison Pl., Newark 2, N. J. (h)
- Ⓥ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
- Ⓥ UNIVERSITY LOUSPEAKERS, INC., 80 S. Kensico Ave., White Plains, N. Y. ADV. PG. 231. (h)
- Ⓥ Utah, Inc., E. Franklin St., Huntington, Ind. (h)
- Ⓥ Workshop Associates, Inc., 66 Needham St., Newton Highlands 61, Mass. (h)

TRANSFORMERS—Instrument

- Ⓥ Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa. (h)
- Ⓥ Airdesign, Inc., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓥ Annis Co., R. B., 1101 N. Delaware St., Indianapolis, Ind. (h)
- Ⓥ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill. (h)
- Ⓥ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169. (h)
- Ⓥ Burlington Instrument Co., Burlington, Iowa. (h)
- Ⓥ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif. (h)
- Ⓥ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. and Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178. (h)
- Ⓥ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Ⓥ Davis & Co., Dean W., Kentland, Ind. (h)
- Ⓥ Dinion Coil Co., Inc., Caledonia, N. Y. (h)
- Ⓥ Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich. (h)
- Ⓥ Electran Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)
- Ⓥ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
- Ⓥ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)

- Ⓥ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind. (h)
- Ⓥ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓥ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓥ Halldorson Co., The, 4500 Ravenswood Ave., Chicago 40, Ill. (h)
- Ⓥ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓥ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓥ Instrument Laboratories, 315 W. Walton Place, Chicago 10, Ill. (h)
- Ⓥ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- Ⓥ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- Ⓥ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- Ⓥ Northern Communications Mfg. Corp., 210 E. 40th St., New York 16, N. Y. (h)
- Ⓥ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓥ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- Ⓥ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86. (h)
- Ⓥ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓥ Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- Ⓥ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓥ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- Ⓥ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108. (h)

TRANSFORMERS—Microphone

- Ⓥ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- Ⓥ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- Ⓥ Airdesign, Inc., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓥ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- Ⓥ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
- Ⓥ American Transformer Co., 285 Emmet St., Newark, N. J. (h)
- Ⓥ Audio Development Co., 2833 13th Ave. S., Minneapolis 7, Minn. (h)
- Ⓥ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Ⓥ Davis & Co., Dean W., Kentland, Ind. (h)
- Ⓥ Dinion Coil Co., Inc., Caledonia, N. Y. (h)
- Ⓥ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
- Ⓥ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓥ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Ⓥ Foster Transformer Co., Inc., 3820 Colerain Ave., Cincinnati 23, Ohio. (h)
- Ⓥ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓥ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- Ⓥ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill. (h)
- Ⓥ Halldorson Company, The, 4500 Ravenswood Ave., Chicago 40, Ill. (h)
- Ⓥ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓥ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓥ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- Ⓥ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
- Ⓥ Langevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y. (h)
- Ⓥ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- Ⓥ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- Ⓥ Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill. (h)
- Ⓥ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓥ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- Ⓥ SHURE BROTHERS, INC., 225 W. Huron St., Chicago 10, Ill. ADV. PG. 19. (h)
- Ⓥ STANDARD TRANSFORMER CORP., Elston, Kedzie and Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- Ⓥ Stolle Engineering & Manufacturing Co., 3970 S. Grand Ave., Los Angeles 37, Calif. (h)
- Ⓥ Super Electric Products Corp., 46 Oliver St., Newark, N. J. (h)
- Ⓥ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓥ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓥ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
- Ⓥ Union Electric Products Co., 24 Edison Place, Newark 2, N. J. (h)

- Ⓥ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. Inside Front Cover. (h)
- Ⓥ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn. (h)

TRANSFORMERS—Microwave

- Ⓥ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- Ⓥ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. (h)
- Ⓥ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y. (h)
- Ⓥ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓥ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- Ⓥ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓥ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓥ K-V Transformer Corp., 4414 Pake Ave., New York 57, N. Y. (h)
- Ⓥ Microwave Equipment Co., Inc., North Caldwell, N. J. (h)
- Ⓥ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. (h)
- Ⓥ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57. (h)
- Ⓥ Product Development Co., Inc., Arlington, N. J. (h)
- Ⓥ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257. (h)
- Ⓥ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86. (h)
- Ⓥ Technifac Laboratories, Inc., Thomaston-Waterbury Rd., Thomaston, Conn. (h)
- Ⓥ Varian Associates, 99 Washington St., San Carlos, Calif. (h)
- Ⓥ VECTRON, INC., 235 High St., Waltham, Mass. ADV. PG. 266. (h)
- Ⓥ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass. (h)

TRANSFORMERS—Miniature

- Ⓥ A. P. W. Co., 72 W. Main St., Rockaway, N. J. (h)
- Ⓥ Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa. (h)
- Ⓥ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- Ⓥ Airdesign, Inc., 241 Fairfield Ave., Upper Darby, Pa. (h)
- Ⓥ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- Ⓥ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
- Ⓥ American Transformer Co., 285 Emmet St., Newark, N. J. (h)
- Ⓥ Audio Development Co., 2833 13th Ave. S., Minneapolis 7, Minn. (h)
- Ⓥ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169. (h)
- Ⓥ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. (h)
- Ⓥ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. and Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178. (h)
- Ⓥ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Ⓥ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓥ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Ⓥ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓥ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓥ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- Ⓥ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓥ Inductive Equipment Co., Gettysburg, Pa. (h)
- Ⓥ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- Ⓥ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
- Ⓥ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- Ⓥ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- Ⓥ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- Ⓥ Permoflux Corp., 4900 W. Grand Ave., Chicago 39, Ill. (h)
- Ⓥ Raytheon MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257. (h)
- Ⓥ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- Ⓥ Sonotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y. (h)
- Ⓥ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas. (h)
- Ⓥ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- Ⓥ STANDARD TRANSFORMER CORP., Elston, Kedzie and Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- Ⓥ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif. (h)

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ⓧ Super Electric Products Corp., 46 Oliver St., Newark, N. J. (h)
- ⓧ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
- ⓧ Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- ⓧ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- ⓧ Transformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif. (h)
- ⓧ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
- ⓧ Union Electric Products Co., 24 Edison Pl., Newark 2, N. J. (h)
- ⓧ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. Inside Front Cover. (h)
- ⓧ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

TRANSFORMERS—Plug-in

- ⓧ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. Adv. PG. 210. (h)
- ⓧ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- ⓧ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. (h)
- ⓧ Davis & Co., Dean W., Kentland, Ind. (h)
- ⓧ Electrocoil Transformer Co., Westerly Rd., Ossining, N. Y. (h)
- ⓧ Electron Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)
- ⓧ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- ⓧ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- ⓧ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- ⓧ Inductive Equipment Co., Gettysburg, Pa. (h)
- ⓧ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- ⓧ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
- ⓧ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- ⓧ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- ⓧ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36. (h)
- ⓧ Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif. (h)
- ⓧ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- ⓧ Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J. (h)
- ⓧ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- ⓧ Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Tex. (h)
- ⓧ Super Electric Products Corp., 46 Oliver St., Newark, N. J. (h)
- ⓧ Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- ⓧ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- ⓧ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
- ⓧ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)

TRANSFORMERS—Power

- ⓧ ACME ELECTRIC CORP., 31 Water St., Cuba N. Y. ADV. PG. 210. (h)
- ⓧ Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa. (h)
- ⓧ Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- ⓧ Airdesign, Inc., 241 Fairfield Ave., Upper Darby, Pa. (h)
- ⓧ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- ⓧ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
- ⓧ AMERICAN TELEVISION & RADIO CO., 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275. (h)
- ⓧ American Transformer Co., 285 Emmett St., Newark, N. J. (h)
- ⓧ Audio Development Co., 2833 13th Ave. S., Minneapolis 7, Minn. (h)
- ⓧ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. (h)
- ⓧ Bittermann Electric Co., Box 665, Canaan, Conn. (h)
- ⓧ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y. (h)
- ⓧ CHICAGO TRANSFORMER DIV., Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill. ADV. PG. 225. (h)
- ⓧ Cole Radio Works, 86 Westville Ave., Caldwell, N. J. (h)
- ⓧ Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill. (h)
- ⓧ DANO ELECTRIC CO., Main St., Winsted, Conn. ADV. PG. 273. (h)
- ⓧ Davis & Co., Dean W., Kentland, Ind. (h)
- ⓧ Delco Radio Div. General Motors Corp., Kokomo, Ind. (h)
- ⓧ Dinion Coil Co., Inc., Caledonia, N. Y. (h)
- ⓧ Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich. (h)
- ⓧ Eisler, Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J. (h)

- ⓧ Electron Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)
- ⓧ Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
- ⓧ Electrocoil Transformer Co., Westerly Rd., Ossining, N. Y. (h)
- ⓧ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
- ⓧ Electro Mfg. Co., Inc., Woods Church Rd., Flemington, N. J. (h)
- ⓧ Electronic Products Div., Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y. (h)
- ⓧ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- ⓧ Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y. (h)
- ⓧ FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- ⓧ Foster Transformer Co., Inc., 3820 Colerain Ave., Cincinnati 23, Ohio. (h)
- ⓧ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- ⓧ Gaveco Labs., Inc., 2 East Ave., New York 21, N. Y. (h)
- ⓧ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ⓧ General Transformer Co., 18240 Harwood Ave., Homewood, Ill. (h)
- ⓧ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- ⓧ Gramer Co., The, 2734 N. Pulaski Rd., Chicago 39, Ill. (h)
- ⓧ Halldorson Co., The, 4500 Ravenswood Ave., Chicago 40, Ill. (h)
- ⓧ Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England. (h)
- ⓧ Hercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y. (h)
- ⓧ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- ⓧ Inductive Equipment Co., Gettysburg, Pa. (h)
- ⓧ Jefferson Electric Co., Bellwood, Ill. (h)
- ⓧ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- ⓧ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
- ⓧ Langevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y. (h)
- ⓧ Lenkurt Electric Co., Inc., San Carlos, Calif. (h)
- ⓧ Light Electric Corp., 214 Lackawanna Ave., Newark 4, N. J. (h)
- ⓧ Magnetic Instrument Co., 82 W. Main St., West Orange, N. J. (h)
- ⓧ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- ⓧ Melco Products, Inc., 22 E. Hennepen Ave., Minneapolis 1, Minn. (h)
- ⓧ Mellaphone Corp., Rochester 2, N. Y. (h)
- ⓧ Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill. (h)
- ⓧ Miller Co., B. F., P. O. Box 568, Trenton 4, N. J. (h)
- ⓧ NEW YORK TRANSFORMER CO., INC., Third Ave., Alpha, N. J. ADV. PG. 184. (h)
- ⓧ Nothelfer Winding Labs., 9 Albemarle Ave., Trenton 3, N. J. (h)
- ⓧ OPAD-GREEN CO., 71 Warren St., New York 7, N. Y. ADV. PG. 274. (h)
- ⓧ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- ⓧ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa. (h)
- ⓧ Philmore Mfg. Co., 113 University Place, New York 3, N. Y. (h)
- ⓧ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257. (h)
- ⓧ Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J. (h)
- ⓧ "S" CORRUGATED QUENCHED GAP CO., Scientific Electric Div., 107 Monroe St., Garfield, N. J. ADV. PG. 265. (h)
- ⓧ S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis. (h)
- ⓧ SORENSON & CO., INC., 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141. (h)
- ⓧ Sorgel Electric Co., 838 W. National Ave., Milwaukee 4, Wis. (h)
- ⓧ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86. (h)
- ⓧ Standard Electrical Products Co., 402 E. 1st St., Dayton, Ohio. (h)
- ⓧ STANDARD TRANSFORMER CORP., Elston, Kedzie and Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- ⓧ Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y. (h)
- ⓧ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif. (h)
- ⓧ Super Electric Products Corp., 46 Oliver St., Newark, N. J. (h)
- ⓧ Tech-Master Products Co., 443-5 Broadway, New York 13, N. Y. (h)
- ⓧ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
- ⓧ Ther Electric & Machine Works, 15 S. Jefferson St., Chicago, Ill. (h)
- ⓧ Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- ⓧ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- ⓧ Transformer Engineers, 389 S. Arroyo Parkway, Pasadena, Calif. (h)

- ⓧ Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif. (h)
- ⓧ Union Electric Products Co., 24 Edison Pl., Newark 2, N. J. (h)
- ⓧ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. Inside Front Cover. (h)
- ⓧ Utah, Inc., E. Franklin St., Huntington, Ind. (h)
- ⓧ Wagner Electric Corp., 6400 Plymouth Ave., St. Louis, Mo. (h)
- ⓧ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)
- ⓧ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn. (h)

TRANSFORMERS—Pulse

- ⓧ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- ⓧ Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa. (h)
- ⓧ Arco Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y. (h)
- ⓧ Airdesign, Inc., 241 Fairfield Ave., Upper Darby, Pa. (h)
- ⓧ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275. (h)
- ⓧ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y. (h)
- ⓧ American Transformer Co., 285 Emmett St., Newark, N. J. (h)
- ⓧ Audio Development Co., 2833 13th Ave. S., Minneapolis 7, Minn. (h)
- ⓧ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md. (h)
- ⓧ COMMUNICATION ACCESSORIES CO., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178. (h)
- ⓧ Dinion Coil Co., Inc., Caledonia, N. Y. (h)
- ⓧ Electron Mfg. Co., 4596 Elston Ave., Chicago 30, Ill. (h)
- ⓧ Electro Engineering Works, 6021 College Ave., Oakland 18, Calif. (h)
- ⓧ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- ⓧ Foster Transformer Co., Inc., 3820 Colerain Ave., Cincinnati 23, Ohio. (h)
- ⓧ FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- ⓧ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ⓧ Goslin Electric & Mfg. Co., 2921 W. Olive St., Burbank, Calif. (h)
- ⓧ HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- ⓧ Inductive Equipment Co., Gettysburg, Pa. (h)
- ⓧ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y. (h)
- ⓧ KENYON TRANSFORMER CO., INC., 840 Barry St., New York 59, N. Y. ADV. PG. 135. (h)
- ⓧ Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. & Hobson Blvd., Easton, Pa. (h)
- ⓧ Melco Products, Inc., 22 E. Hennepen Ave., Minneapolis 1, Minn. (h)
- ⓧ Nothelfer Winding Labs., 9 Albemarle Ave., Trenton 3, N. J. (h)
- ⓧ Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif. (h)
- ⓧ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257. (h)
- ⓧ Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J. (h)
- ⓧ SPERRY GYROSCOPE CO. Div of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86. (h)
- ⓧ Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif. (h)
- ⓧ Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa. (h)
- ⓧ Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- ⓧ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- ⓧ Transformer Engineers, 389 S. Arroyo Parkway, Pasadena, Calif. (h)
- ⓧ UNITED TRANSFORMER CO., 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
- ⓧ Utah, Inc., E. Franklin St., Huntington, Ind. (h)
- ⓧ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77. (h)

TRANSFORMERS—r-f

- ⓧ ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- ⓧ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J. (h)
- ⓧ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169. (h)
- ⓧ Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y. (h)
- ⓧ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill. (h)
- ⓧ ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- ⓧ FUGLE-MILLER LABORATORIES, 398 Main St., Metuchen, N. J. ADV. PG. 164. (h)
- ⓧ HARNETT ELECTRIC CORP., 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182. (h)

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ **HILLBURN ELECTRONIC PRODUCTS CO.**, 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
- Ⓥ **HOULIHAN CO.**, T. J., 2508-14 Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ **Johnson Co.**, E. F., Waseca, Minn.
- Ⓥ **Lenkurt Electric Co., Inc.**, San Carlos, Calif.
- Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn 19, N. Y.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y. (h)
- Ⓥ **Lynmar Engineers, Inc.**, 1721 Delancey St., Philadelphia 3, Pa.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓥ **Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Ⓥ **Miller Co.**, J. W., 5917 S. Main St., Los Angeles, Calif.
- Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
- Ⓥ **NATIONAL CO., INC.**, 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- Ⓥ **Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ **RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- Ⓥ **Stolle Engineering & Mfg. Co.**, 3970 S. Grand Ave., Los Angeles 37, Calif.
- Ⓥ **Super Electric Products Corp.**, 46 Oliver St., Newark, N. J. (h)
- Ⓥ **Teletron Co.**, The, 4019 Prospect Ave., Cleveland 3, Ohio.
- Ⓥ **Teleradio Engineering Corp.**, 99 Wall St., New York 5, N. Y.
- Ⓥ **U. S. ELECTRONICS CORP.**, 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.

TRANSFORMERS—r-f and i-f

- Ⓥ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Ⓥ **Automatic Mfg. Corp.**, 65 Gouverneur St., Newark 4, N. J.
- Ⓥ **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓥ **Caddell-Burns Mfg. Co.**, 480 Broome St., New York 13, N. Y.
- Ⓥ **Collins Radio Co.**, Cedar Rapids, Iowa.
- Ⓥ **Delco Radio Div.**, General Motors Corp., Kokomo, Ind.
- Dietz Design & Mfg. Co., 5810 Park Ave., Kansas City 4, Mo.
- Ⓥ **Doolittle Radio, Inc.**, 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓥ **ELECTRONIC TRANSFORMER CO., INC.**, 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓥ **Essex Electronics**, Berkeley Heights, N. J. (h)
- Ⓥ **FUGLE-MILLER LABORATORIES**, 398 Main St., Metuchen, N. J. ADV. PG. 164.
- Ⓥ **HARNETT ELECTRIC CORP.**, 138 Haven Ave., Port Washington, L. I., N. Y. ADV. PG. 182.
- Ⓥ **HILLBURN ELECTRONIC PRODUCTS CO.**, 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
- Ⓥ **HOULIHAN CO.**, T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ **Lenkurt Electric Co., Inc.**, San Carlos, Calif. (h)
- Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn 19, N. Y.
- Loral Electronics Corp., 794 E. 140th St., New York 54, N. Y. (h)
- McMurdo Silver Co., 1240 Main St., Hartford 3, Conn.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓥ **Millen Mfg. Co.**, James, 150 Exchange St., Malden, Mass.
- Ⓥ **Miller Co.**, J. W., 5917 S. Main St., Los Angeles, Calif.
- Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
- Ⓥ **NATIONAL CO., INC.**, 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
- Ⓥ **North American Philips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- Ⓥ **Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ **RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Rollan Electrical Co., 8020 S. South Park, Chicago, Ill.
- Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
- Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
- Ⓥ **Stanwyck Winding Company**, 137 Walsh Ave., Newburgh, N. Y.
- Ⓥ **Stolle Engineering & Mfg. Co.**, 3970 S. Grand Ave., Los Angeles 37, Calif.
- Ⓥ **Super Electric Products Corp.**, 46 Oliver St., Newark, N. J. (h)
- Tech-Master Products Co., 443-5 Broadway, New York 13, N. Y.
- Ⓥ **Teleradio Engineering Corp.**, 99 Wall St., New York 5, N. Y.
- Ⓥ **U. S. ELECTRONICS CORP.**, 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.

TRANSFORMERS—Rhombic Antenna Coupling

- Ⓥ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Ⓥ **Andrew Corp.**, 363 E. 75th St., Chicago 19, Ill.
- Ⓥ **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ **Lenkurt Electric Co., Inc.**, San Carlos, Calif. (h)
- Ⓥ **Miller Co.**, J. W., 5917 S. Main St., Los Angeles, Calif.
- Ⓥ **U. S. ELECTRONICS CORP.**, 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.

TRANSFORMERS—Tone Oscillator

- Ⓥ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. (h) ADV. PG. 210.
- Ⓥ **Acro Transformer Mfg. Corp.**, 21-20 33rd Ave., Long Island City, N. Y. (h)
- Ⓥ **BARKER & WILLIAMSON**, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓥ **Bendix Radio Communications Div.**, Bendix Aviation Corp., Baltimore 4, Md. (h)
- Ⓥ **BURNELL & CO.**, 45 Warburton Ave., Yonkers 2, N. Y. ADV. PG. 59.
- Ⓥ **COMMUNICATION ACCESSORIES CO.**, Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo. ADV. PG. 178.
- Ⓥ **ELECTRONIC TRANSFORMER CO., INC.**, 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓥ **FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓥ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ **KENYON TRANSFORMER CO., INC.**, 840 Barry St., New York 59, N. Y. ADV. PG. 135.
- Ⓥ **Lenkurt Electric Co., Inc.**, San Carlos, Calif. (h)
- Ⓥ **Super Electric Products Corp.**, 46 Oliver St., Newark, N. J. (h)
- Ⓥ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓥ **U. S. ELECTRONICS CORP.**, 276 Warren St., Lyndhurst, N. J. ADV. PG. 266.
- Ⓥ **UNITED TRANSFORMER CO.**, 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)

TRANSFORMERS—Ultrasonic

- Ⓥ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Ⓥ **Acro Transformer Mfg. Corp.**, 21-20 33rd Ave., Long Island City, N. Y. (h)
- Ⓥ **Audio Development Co.**, 2833 13th Ave., S. Minneapolis 7, Minn. (h)
- Ⓥ **COMMUNICATION ACCESSORIES CO.**, Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Missouri. ADV. PG. 178.
- Ⓥ **ELECTRONIC TRANSFORMER CO., INC.**, 215 W. 25th St., New York, N. Y. ADV. PG. 116.
- Ⓥ **FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- Ⓥ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ **KENYON TRANSFORMER CO., INC.**, 840 Barry St., New York 59, N. Y. ADV. PG. 135.
- Ⓥ **Lenkurt Electric Co., Inc.**, San Carlos, Calif.
- Ⓥ **RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.

TRANSFORMERS—Vacuum Microwave

- Ⓥ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Ⓥ **Foster Transformer Co., Inc.**, 3820 Colerain Ave., Cincinnati 23, Ohio. (h)
- Inductive Equipment Co., Gettysburg, Pa.
- JENNINGS RADIO MFG. CO.**, 1098 E. William St., San Jose 12, Calif. ADV. PG. 114, 115.

TRANSFORMERS—Vibrator

See Transformers, Power

TRANSFORMERS—Voltage Regulating

- Ⓥ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210.
- Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
- Ⓥ **American Transformer Co.**, 285 Emmett St., Newark, N. J.
- Annis Co., R. B., 1101 N. Delaware St., Indianapolis, Ind.
- Ⓥ **Crest Transformer Corp.**, 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Ⓥ **Electrical Windings, Inc.**, 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
- Ⓥ **Electro Engineering Works**, 6021 College Ave., Oakland 18, Calif. (h)
- Ⓥ **ELECTRONIC TRANSFORMER CO., INC.**, 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)

- Ⓥ **FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Ⓥ **Foster Transformer Co., Inc.**, 3820 Colerain Ave., Cincinnati 23, Ohio. (h)
- Ⓥ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓥ **Gates Radio Co.**, Quincy, Ill.
- Ⓥ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓥ **GENERAL RADIO CO.**, 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓥ **Gramer Co.**, The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- Ⓥ **Halldorson Co.**, The, 4500 Ravenswood Ave., Chicago 40, Ill.
- Ⓥ **HIGHLAND ENGINEERING CO.**, 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Ⓥ **J F D MFG. CO.**, 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓥ **Magnetic Instrument Co.**, 82 W. Main St., West Orange, N. J.
- Melco Products, Inc., 22 E. Hennepin Ave., Minneapolis 1, Minn.
- Ⓥ **Miller Co.**, B. F., P. O. Box 568, Trenton 4, N. J.
- Ⓥ **North American Philips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- Ⓥ **RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓥ **Sola Electric Co.**, 4633 W. 16th St., Chicago 50, Ill. (h)
- Ⓥ **SORENSON & CO., INC.**, 375 Fairfield Ave., Stamford, Conn. ADV. PG. 141.
- Ⓥ **Standard Electrical Products Co.**, 402 E. 1st St., Dayton, Ohio. (h)
- Ⓥ **STANDARD TRANSFORMER CORP.**, Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62. (h)
- Ⓥ **SUPERIOR ELECTRIC CO., THE**, 83 Meadow St., Bristol, Conn. ADV. PG. 110, 111.
- Ⓥ **Thermador Electric Mfg. Co.**, 5119 District Blvd., Los Angeles 22, Calif. (h)
- Ⓥ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓥ **Union Electric Products Co.**, 24 Edison Pl., Newark 2, N. J.
- Ⓥ **UNITED TRANSFORMER CO.**, 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)
- Ⓥ **WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSFORMERS—Welding

- Ⓥ **ACME ELECTRIC CORP.**, 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- Ⓥ **AMERICAN TRANSFORMER CO.**, 285 Emmett St., Newark, N. J.
- Arco Transformer & Electrical Co., 1602 S. Hanna St., Fort Wayne, Ind. (h)
- Ⓥ **Crest Transformer Corp.**, 1834-36 W. North Ave., Chicago 22, Ill. (h)
- Ⓥ **Davis & Co.**, Dean W., Kentland, Ind.
- Ⓥ **Eisler Engineering Co., Inc.**, 740 S. 13th St., Newark 3, N. J.
- Ⓥ **Electran Mfg. Co.**, 4596 Elston Ave., Chicago 30, Ill.
- Ⓥ **Electrocoil Transformer Co.**, Westerly Rd., Ossining, N. Y.
- Ⓥ **Electro Engineering Works**, 6021 College Ave., Oakland 18, Calif. (h)
- Ⓥ **ELECTRONIC TRANSFORMER CO., INC.**, 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- Ⓥ **Etraco Mfg. Co., Inc.**, Woods Church Rd., Flemington, N. J.
- Ⓥ **FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81. (h)
- Ⓥ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- Ⓥ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- Ⓥ **Hercules Electric & Mfg. Co., Inc.**, 2500 Atlantic Ave., Brooklyn 7, N. Y.
- Ⓥ **HIGHLAND ENGINEERING CO.**, 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- Light Electric Corp., 214 Lackawanna Ave., Newark 4, N. J.
- Ⓥ **Nothelfer Winding Labs.**, 9 Albemarle Ave., Trenton 3, N. J.
- Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- Ⓥ **Progressive Welder Co.**, 3050 E. Outer Dr., Detroit, Mich.
- Ⓥ **RAYTHEON MFG. CO.**, Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓥ **Red Arrow Electric Corp.**, 100 Coit St., Irvington 11, N. J.
- Ⓥ **Sorgel Electric Co.**, 838 W. National Ave., Milwaukee 4, Wis.
- Ⓥ **STANDARD TRANSFORMER CORP.**, Elston, Kedzie & Addison, Chicago 18, Illinois. ADV. PG. 62. (h)
- Ⓥ **Thordarson Electric Mfg. Div.**, Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- Ⓥ **UNITED TRANSFORMER CO.**, 150 Varick St., New York 13, N. Y. ADV. PG. Inside Front Cover. (h)

V indicates . . . **IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE**

TRANSFORMERS—X-Ray

- ①ACME ELECTRIC CORP., 31 Water St., Cuba, N. Y. ADV. PG. 210. (h)
- ①Davis & Co., Dean W., Kentland, Ind.
- ①Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich. (h)
- ①Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill. (h)
- ①Electrocoil Transformer Co., Westerly Rd., Ossining, N. Y.
- ①ELECTRONIC TRANSFORMER CO., INC., 215 W. 25th St., New York, N. Y. ADV. PG. 116. (h)
- ①Etraco Mfg. Co., Inc., Woods Church Rd., Flemington, N. J.
- ①FERRANTI ELECTRIC, INC., 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81 (h)
- ①Foster Transformer Co., Inc., 3820 Colerain Ave., Cincinnati 23, Ohio. (h)
- ①FREED TRANSFORMER CO., INC., 1736 Weirfield St., Brooklyn 27, N. Y. ADV. PG. 143. (h)
- ①GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18. (h)
- ①General Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
- ①HIGHLAND ENGINEERING CO., 32 Holman Blvd., Hicksville, N. Y. ADV. PG. 194. (h)
- ①North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ①Nothelfer Winding Labs., 9 Albemarle Ave., Trenton 3, N. J.
- ①Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 1, Calif.
- ①Picker X-Ray Corp., 300 Fourth Ave., New York 10, N. Y.
- ①Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J. (h)
- ①Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif. (h)
- ①Thoardarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill. (h)
- ①Triplet & Barton, Inc., 831 N. Lake St., Burbank, Calif.
- ①UNITED TRANSFORMER CO., 150 Varick St., New York 7, N. Y. ADV. PG. Inside Front Cover. (h)
- ①WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSISTORS

- ①GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ①RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.

TRANSMISSION LINES

See Cable, Coaxial or Waveguides

TRANSMITTERS—Aircraft

- ①Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- ①Air Associates Inc., Teterboro, N. J.
- ①AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- ①Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- ①Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ①Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ①Collins Radio Co., Cedar Rapids, Iowa.
- ①Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- ①Electronic Specialty Co., 3456 Glendale Blvd., Los Angeles 39, Calif.
- ①GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ①Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
- ①Lear, Inc., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
- ①Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- ①RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ①RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ①Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ①Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- ①Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

TRANSMITTERS—Amateur

- ①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ①Collins Radio Co., Cedar Rapids, Iowa.
- ①Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.

- ①EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ①Hallcrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- ①Harvey-Wells Electronics Inc., North St., Southbridge, Mass.
- ①Johnson Co., E. F., Waseca, Minn.
- ①McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- ①Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- ①Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
- ①Radio Transceiver Labs., 116-23 Jamaica Ave., Richmond Hill 18, N. Y.
- ①RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①Sierra Electronics Corp., San Carlos, Calif.
- ①Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ①STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
- ①Teletronics Laboratory, Inc., 352 Maple Ave., Westbury, L. I., N. Y.
- ①Transmitter Equipment Mfg. Co., Inc., 345 Hudson St., New York 14, N. Y.

TRANSMITTERS—Broadcast

- ①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ①Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ①Collins Radio Co., Cedar Rapids, Iowa.
- ①Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.
- ①Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.
- ①FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ①Gates Radio Co., Quincy, Ill.
- ①GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ①Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- ①RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ①Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.
- ①RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ①REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①Smuckler & Co., Inc., 202 Tillary St., Brooklyn 1, N. Y.
- ①Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ①Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- ①WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSMITTERS—Broadcast STL

- ①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ①Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ①FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ①GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ①HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- ①Link Radio Corp., 125 W. 17th St., New York, N. Y.
- ①RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ①Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.
- ①RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

TRANSMITTERS—Citizen's Radio

- ①Carnine & Bitter, 2332 Ontario Rd., NW, Washington 9, D. C.
- ①Philo Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

TRANSMITTERS—Color Television

- ①Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- ①RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSMITTERS—Direction Finding

- ①Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- ①Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ①Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.
- ①Grady Instrument Co., 689 Belmont St., Belmont 78, Mass.
- ①RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ①Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.

TRANSMITTERS—f-m

- ①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ①Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- ①Collins Radio Co., Cedar Rapids, Iowa.
- ①Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- ①Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- ①EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- ①FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- ①Gates Radio Co., Quincy, Ill.
- ①GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- ①HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- ①Hastings Instrument Co., Box 1275, Hampton, Va.
- ①Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md.
- ①Philo Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ①RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ①Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.
- ①RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ①REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- ①Schuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- ①SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ①Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- ①WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSMITTERS—Facsimile

- ①Acme Teletronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
- ①ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- ①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ①Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ①Hogan Laboratories, Inc., 155 Perry St., New York 14, N. Y.
- ①McElroy Mfg. Corp., Littleton, Mass.
- ①MUIRHEAD & CO., LTD., Beckenham-Kent-England. ADV. PG. 71.
- ①Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- ①Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ①TIMES FACSIMILE CORP., 229 W. 43rd St., New York 18, N. Y. ADV. PG. 50.
- ①WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSMITTERS—Fixed Frequency

- ①Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- ①Applied Electronics Co., 1246 Folsom St., San Francisco 3, Calif.
- ①Audiograph Co., 1414 El Camino Real, San Carlos, Calif.
- ①BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- ①Bassett Inc., Rex, 307-11 N.W. 1st Ave., Fort Lauderdale, Fla.
- ①Belmont Radio Co., Div., Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- ①Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- ①Collins Radio Co., Cedar Rapids, Ohio.
- ①Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓜ EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓜ Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.
- Ⓜ Gates Radio Co., Quincy, Ill.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Hastings Instrument Co., Box 1275, Hampton, Va.
- Ⓜ Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Ⓜ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓜ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓜ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓜ Maryland Electronic Mfg. Corp., 5009 Calvert Road, College Park, Maryland.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- Ⓜ RADIO RECEPTOR CO., 251 W. 19th St., New York 11, N. Y. ADV. PG. 188.
- Ⓜ Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓜ Schuttig & Co., Inc., 9th & Kearney Sts., N.E., Washington 17, D. C.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Sierra Electronic Corp., San Carlos, Calif.
- Ⓜ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Technical Materiel Corporation, The, 453 West 47th St., New York 19, N. Y.
- Ⓜ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓜ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

TRANSMITTERS—Fixed Station Communication

- Ⓜ Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- Ⓜ Audiograph Co., 1414 El Camino Real, San Carlos, Calif.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- Ⓜ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓜ EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓜ Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.
- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ Gates Radio Co., Quincy, Ill.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Ⓜ HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Ⓜ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓜ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓜ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓜ McEroy Mfg. Corp., Littleton, Mass.
- Ⓜ Maryland Electronic Mfg. Corp., 5009 Calvert Road, College Park, Maryland.
- Ⓜ McMurdo Silver Co., 1240 Main St., Hartford 3, Conn.
- Ⓜ Northern Radio Co., 314 Bell St., Seattle 1, Wash.
- Ⓜ NORTHERN RADIO CO., INC., 143-145 W. 22nd St., New York 11, N. Y. ADV. PG. 132, 133.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Sierra Electronic Corp., San Carlos, Calif.
- Ⓜ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

- Ⓜ Technical Materiel Corporation, The, 453 West 47th St., New York 19, N. Y.
- Ⓜ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

TRANSMITTERS—Loran

- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

TRANSMITTERS—Marine

- Ⓜ Applied Electronics Co., 1246 Folsom St., San Francisco 3, Calif.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓜ Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.
- Ⓜ Fisher Research Lab., Inc., 1961 University Ave., Palo Alto, Calif.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Grady Instrument Co., 689 Belmont St., Belmont 78, Mass.
- Ⓜ Harvey-Wells Electronics Inc., North St., Southbridge, Mass.
- Ⓜ Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Ⓜ Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Ⓜ Jefferson, Inc., Ray, 40 E. Merrick Road, Freeport, L. I., N. Y.
- Ⓜ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓜ Maryland Electronic Mfg. Corp., 5009 Calvert Road, College Park, Maryland.
- Ⓜ Northern Radio Co., 314 Bell St., Seattle 1, Wash.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- Ⓜ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Ⓜ Tayber Equipment Co., Inc., 120 Greenwich St., New York, N. Y.
- Ⓜ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓜ Williams Ship-Radio Co., 4366 Mentone St., San Diego 7, Calif.

TRANSMITTERS—Microwave

- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ Federal Telecommunication Labs., Inc., 500 Washington Ave., Nutley 10, N. J.
- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Microwave Equipment Co., Inc., North Caldwell, N. J.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓜ Press Wireless Mfg. Co., Inc., Cantiaque Rd., Hicksville, L. I., N. Y.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓜ Varian Associates, 99 Washington St., San Carlos, Calif.
- Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

TRANSMITTERS—Portable and Mobile Radio-telephone

- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Bassett Inc., Rex, 307-11 N. W. 1st Ave., Fort Lauderdale, Fla.
- Ⓜ Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓜ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓜ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓜ EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Grady Instrument Co., 689 Belmont St., Belmont 78, Mass.
- Ⓜ Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Ⓜ HARVEY RADIO LABS., INC., 447 Concord Ave., Cambridge, Mass. ADV. PG. 104.
- Ⓜ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓜ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓜ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓜ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓜ Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.
- Ⓜ Radio Transceiver Labs., 116-23 Jamaica Ave., Richmond Hill 18, N. Y.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓜ Transmitter Equipment Co., Inc., 345 Hudson St., New York 19, N. Y.
- Ⓜ West Coast Electronics Co., 1601 S. Burlington Ave., Los Angeles 6, Calif.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSMITTERS—Pulse Time Modulation

- Ⓜ Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- Ⓜ Federal Telecommunication Labs., Inc., 500 Washington Ave., Nutley 10, N. J.
- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ Molded Insulation Co., Aircraft & Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ Sierra Electronic Corp., San Carlos, Calif.
- Ⓜ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓜ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.

TRANSMITTERS—Radar

- Ⓜ Air Associates, Inc., Teterboro, N. J.
- Ⓜ Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, L. I., N. Y.
- Ⓜ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓜ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓜ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓜ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓜ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓜ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓜ Reeves Instrument Corp., 215 E. 91st St., New York, N. Y.
- Ⓜ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓜ Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
- Ⓜ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

TRANSMITTERS—Radio Range

- Ⓞ Air Associates, Inc., Teterboro, N. J.
- Ⓞ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓞ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓞ LAVOIE LABORATORIES, Morganville, N. J. ADV. PG. 151.
- Ⓞ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓞ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSMITTERS—Railroad

- Ⓞ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓞ Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Ⓞ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓞ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TRANSMITTERS—Television

- Ⓞ DuMont Laboratories, Inc., Allen B., Television Transmitter Div., 1000 Main Ave., Clifton, N. J.
- Ⓞ Federal Telecommunication Labs., Inc., 500 Washington Ave., Nutley 10, N. J.
- Ⓞ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓞ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ REEVES-HOFFMAN CORP., 321 Cherry St., Carlisle, Pa. ADV. PG. 32.
- Ⓞ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ Tel Instrument Co., Inc., 50 Paterson Ave., East Rutherford, N. J.
- Ⓞ Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.

TRANSMITTERS—uhf

- Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓞ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- Ⓞ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓞ EL-TRONICS INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
- Ⓞ Federal Telecommunication Labs. Inc., 500 Washington Ave., Nutley 10, N. J.
- Ⓞ Gates Radio Co., Quincy, Ill.
- Ⓞ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓞ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓞ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓞ Maryland Electronics Mfg. Corp., 5009 Calvert Road, College Park, Maryland.
- Ⓞ McMurdo Silver Co., 1240 Main St., Hartford 3, Conn.
- Ⓞ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ Rosen Engineering Products, Inc., Raymond, 32nd & Walnut Sts., Philadelphia 4, Pa.
- Ⓞ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ Sierra Electronic Corp., San Carlos, Calif.
- Ⓞ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓞ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- Ⓞ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓞ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Mo.

TRANSMITTERS—vhf

- Ⓞ Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
- Ⓞ AIRCRAFT RADIO CORP., Boonton, N. J. ADV. PG. 198, 199.
- Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
- Ⓞ Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, N. Hollywood, Calif.
- Ⓞ Bendix Radio Communications Div., Bendix Aviation Corp., Baltimore 4, Md.
- Ⓞ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- Ⓞ Capehart-Farnsworth Corp., Fort Wayne, Indiana.
- Ⓞ Collins Radio Co., Cedar Rapids, Iowa.
- Ⓞ Communications Co., 300 Greco Ave., Coral Gables 34, Fla.
- Ⓞ Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.
- Ⓞ Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.
- Ⓞ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓞ Gates Radio Co., Quincy, Ill.
- Ⓞ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓞ Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- Ⓞ Kaar Engineering Co., 2995 Middlefield Rd., Palo Alto, Calif.
- Ⓞ Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
- Ⓞ Link Radio Corp., 125 W. 17th St., New York, N. Y.
- Ⓞ Maryland Electronic Mfg. Corp., 5009 Calvert Road, College Park, Maryland.
- Ⓞ McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
- Ⓞ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
- Ⓞ National Electronics Labs., Inc., 1713 Kalorama Rd., N. W., Washington 9, D. C.
- Ⓞ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓞ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ RADIO RECEPTOR CO., 251 W. 19th St., New York, N. Y. ADV. PG. 188.
- Ⓞ Radio Specialty Mfg. Co., 2023 S. E. 6th Ave., Portland 14, Ore.
- Ⓞ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- Ⓞ Rosen Engineering Products, Inc., Raymond, 32nd & Walnut Sts., Philadelphia 4, Pa.
- Ⓞ Schuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C.
- Ⓞ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- Ⓞ Sierra Electronic Corp., San Carlos, Calif.
- Ⓞ Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
- Ⓞ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓞ Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓞ Wilcox Electric Co., 1400 Chestnut St., Kansas City, Missouri.

TRAPS—Wave

- Ⓞ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓞ Decimeter, Inc., 1430 Market St., Denver 2, Colorado.
- Ⓞ HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.
- Ⓞ House of Television Inc., 40 W. 4th St., New York 12, N. Y.
- Ⓞ Lynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.
- Ⓞ Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓞ Orthon Corp., The, Electronic Division, 196 Albion Ave., Paterson 2, N. J.
- Ⓞ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓞ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- Ⓞ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
- Ⓞ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.

TRIMMER—Capacitors

See Capacitors

TUBE PARTS

Anodes, Carbon

- Ⓞ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- Ⓞ Speer Carbon Co., Lincoln Ave., St. Marys, Pa.

- Ⓞ STACKPOLE CARBON CO., St. Marys, Pa. ADV. PG. 166, 167.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Anodes, Gold

- Ⓞ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓞ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓞ JOHNSON & HOFFMAN INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Ⓞ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium Pa. ADV. PG. 286 to 290.
- Ⓞ Wildberg Bros., Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

Anodes, Graphite

- Ⓞ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- Ⓞ Speer Carbon Co., Lincoln Ave., St. Marys, Pa.
- Ⓞ STACKPOLE CARBON CO., St. Marys Pa. ADV. PG. 166, 167.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Anodes, Metal

- Ⓞ Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
- Ⓞ ART WIRE & STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
- Ⓞ Eitel-McCullough, Inc., San Bruno, Calif.
- Ⓞ Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓞ Fansteel Metallurgical Corp., 2200 Sheridan Road, North Chicago, Ill.
- Ⓞ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓞ JOHNSON & HOFFMAN INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Ⓞ NEWARK SPINNING & STAMPING CO., 471 Bloy St., Hillside 5, N. J. ADV. PG. 269.
- Ⓞ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓞ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓞ STAYER CO., INC., 91 Pearl St., Brooklyn 1, N. Y. ADV. PG. 180.
- Ⓞ SUPERIOR TUBE CO., 2504 Germantown Pike, Norristown, Pa. ADV. PG. 44, 45.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ United Carr Fastener Corp., Cambridge 42, Mass.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Anodes, Metallized Graphite

- Ⓞ Speer Carbon Co., Lincoln Ave., St. Marys, Pa.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Anodes, Silver

- Ⓞ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓞ JOHNSON & HOFFMAN INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Ⓞ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ Wildberg Bros., Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

Base Pins

- Ⓞ ART WIRE AND STAMPING CO., 22 High Street, Newark 2, N. J. ADV. PG. 198.
- Ⓞ Bead Chain Mfg. Co., 110 Mountain Grove St., Bridgeport 5, Conn.
- Ⓞ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓞ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓞ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Bases

- Ⓞ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓞ AMERICAN LAVA CORP., Chattanooga, 5, Tenn. ADV. PG. 27.
- Ⓞ Continental Electric Co., Geneva, Ill.
- Ⓞ Electronic Mfg. Co., 20 Orange St., Newark, N. J.
- Ⓞ Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓞ Engineering Co., 27 Wright St., Newark, N. J.
- Ⓞ GENERAL CERAMICS & STEATITE CORP., Keasbey, N. J. ADV. PG. 219.

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓥ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓥ Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
- Ⓥ Owens-Illinois Glass Co., Toledo, Ohio.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ Shaw Insulator Co., 160 Coit St., Irvington 11, N. J.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ Tior Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Bulbs & Envelopes

- Ⓥ American Structural Products Co., Toledo 1, Ohio.
- Ⓥ CORNING GLASS WORKS, Corning, N. Y. ADV. PG. 134.
- Polan Industries, 220 Eighth St., Huntington, W. Va.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ Zenith Optical Co., Div. of Polan Industries, Huntington 19, W. Va.

Caps

- Ⓥ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 6, Mass. ADV. PG. 235.
- Ⓥ Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.
- Ⓥ Electronic Mfg. Co., 20 Orange St., Newark, N. J. Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓥ Engineering Co., 27 Wright St., Newark, N. J.
- Ⓥ Goat Co., Inc., Fred, 314 Dean St., Brooklyn, New York.
- Ⓥ Johnson Co., E. F., Waseca, Minn.
- Ⓥ JOHNSON & HOFFMAN, INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Cathode Ray Tube Powders

- Ⓥ du Pont de Nemours & Co., Inc., E. I., Patterson Screen Div., Towanda, Pa.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.

Cathode Ray Tube Side Contacts

- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Cathode Sleeves and Tubes

- Ⓥ NEWARK SPINNING & STAMPING CO., 471 Bloy St., Hillside 5, N. J. ADV. PG. 269
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ Superior Tube Co., 2504 Germantown Pike, Norristown, Pa. ADV. PG. 44, 45.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Conductive Paints

See Paints, Conductive

Filament Wire

- Ⓥ Alloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
- Ⓥ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓥ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark 4, N. J. ADV. PG. 123.
- Ⓥ Eaiser Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓥ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

Getters

- Ⓥ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓥ Kemet Division, Union Carbide & Carbon Corp., Madison Ave. & 117th St., Cleveland 1, Ohio.
- Ⓥ King Laboratories Inc., 127 Solar St., Syracuse 4, N. Y.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.

Grids and Supports

- Ⓥ ART WIRE & STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
- Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓥ Goat Co., Inc., Fred, 314 Dean St., Brooklyn, N. Y.
- Ⓥ Haydu Brothers, Plainfield, N. J.
- Ⓥ JOHNSON & HOFFMAN, INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Ⓥ NATIONAL CARBON DIVISION, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. ADV. PG. 109.
- Ⓥ NEWARK SPINNING & STAMPING CO., 471 Bloy St., Hillside 5, N. J. ADV. PG. 269.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Grid Wire

- Ⓥ Alloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
- Ⓥ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark 4, N. J. ADV. PG. 123.
- Ⓥ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓥ Eaiser Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓥ Eitel-McCullough Inc., San Bruno, Calif.
- Ⓥ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓥ Kemet Division, Union Carbide & Carbon Corp., Madison Ave. & 117th St., Cleveland 1, Ohio.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- Ⓥ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

Heat Radiators

- Ⓥ Eitel-McCullough, Inc., San Bruno, Calif.
- Ⓥ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓥ JOHNSON & HOFFMAN, INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Metal Supports

- Ⓥ ART WIRE AND STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
- Ⓥ Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.
- Ⓥ Electronic Mfg. Co., 20 Orange St., Newark, N. J. Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓥ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓥ Goat Co., Inc., Fred, 314 Dean St., Brooklyn, N. Y.
- Ⓥ Greene Mfg. Corp., G. G., Warren, Pa.
- Ⓥ Haydu Brothers, Plainfield, N. J.
- Ⓥ JOHNSON & HOFFMAN, INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Ⓥ NEWARK SPINNING & STAMPING CO., 471 Bloy St., Hillside 5, N. J. ADV. PG. 269.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ STAVAR CO., INC., 91 Pearl St., Brooklyn 1, N. Y. ADV. PG. 180.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Mica Supports

- Ⓥ JOHNSON & HOFFMAN, INC., 65 Ongley St., Rockville Center, L. I., N. Y. ADV. PG. 113.
- Mica Fabricating Co., 53 Central Ave., Rochelle, Park, N. J.
- Ⓥ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓥ Micacraft Products Inc., 701 McCarter Highway, Newark 5, N. J.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

Tube Seal Leads

- Ⓥ Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland 5, Ohio.
- Ⓥ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓥ Engineering Co., 27 Wright St., Newark, N. J.
- Ⓥ Fansteel Metallurgical Corp., 2200 Sheridan Rd., Chicago, Ill.
- Ⓥ HERMETIC SEAL PRODUCTS CO., 29-37 South 6th St., Newark 7, N. J. ADV. PG. 87.
- Ⓥ NATIONAL ELECTRONICS, INC., Geneva, Illinois. ADV. PG. 100.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

Water Jackets

- Ⓥ Amperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
- Ⓥ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓥ Machlett Laboratories, Springdale, Conn.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ ROTRON MFG. CO., INC., 7-9 Schoonmaker Lane, Woodstock, N. Y. ADV. PG. 260.

Wire Parts

- Ⓥ ART WIRE AND STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
- Ⓥ Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.
- Ⓥ Electronic Mfg. Co., 20 Orange St., Newark, N. J. Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.
- Ⓥ Goat Co., Inc., Fred, 314 Dean St., Brooklyn, N. Y.
- Ⓥ Haydu Brothers, Plainfield, N. J.
- Ⓥ Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TUBES—Ballast

- Ⓥ AMPERITE CO., 561 Broadway, New York 12, N. Y. ADV. PG. 218.
- Ⓥ Electronic Enterprises, Inc., 65 7th Ave., Newark 4, N. J.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ TUNG-SOL LAMP WORKS INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.

TUBES—Battery Charger

- Ⓥ Baldor Electric Co., 4353 Duncan Ave., St. Louis, Mo.
- Ⓥ Continental Electric Co., Geneva, Ill.
- Ⓥ Electric Heat Control Co., The, 9123 Inman Ave., Cleveland 5, Ohio.
- Ⓥ ELECTRONS, INC., 127 Sussex Ave., Newark 4, N. J. ADV. PG. 255.
- Ⓥ McCoolpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif.
- Ⓥ NATIONAL ELECTRONICS, INC., Geneva, Ill. ADV. PG. 100.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

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TUBES—Bolometer

Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 ⓈSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

TUBES—Cathode Ray

ⓈAcheson Colloids Corp., Port Huron, Mich.
 ⓈArcturus Electronics, Inc., 54 Clark St., Newark, N. J.
 ⓈCapehart-Farnsworth Corp., Fort Wayne, Indiana.
 ⓈCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 ⓈDuMont Laboratories, Inc., Allen B., Instrument Div., 1000 Main Ave., Clifton, N. J.
 ⓈELECTRONIC TUBE CORP., 1200 E. Mermaid Ave., Philadelphia 18, Pa. ADV. PG. 156.
 Eureka Television & Tube Corp., 69 Fifth Ave., Hawthorne, N. J.
 ⓈGuardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
 ⓈHaydu Brothers, Plainfield, N. J.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 ⓈGENERAL ELECTRIC CO., 101 Hazel St., Paterson, N. J. ADV. PG. 265.
 ⓈLansdale Tube Co., Church Rd., Lansdale, Pa.
 ⓈNational Union Radio Corp., 350 Scotland Rd., Orange, N. J.
 ⓈNorth American Philips Co., 100 East 42nd St., New York 17, N. Y.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 ⓈRAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
 ⓈSarkes Tarzian Inc., 415 N. College Ave., Bloomington, Ind.
 ⓈSheldon Arcturus Co., 76-86 Coit St., Irvington, N. J.
 ⓈStandard Arcturus Corp., 54 Clark St., Newark 4, N. J.
 ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓈSYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
 ⓈTaylor Tubes, Inc., 2312 Wabansia Ave., Chicago 47, Ill.
 ⓈTEL-O-TUBE CORP. OF AMERICA, Paterson, N. J. ADV. PG. 267.
 ⓈTHOMAS ELECTRONICS, INC., 118 9th St., Passaic, N. J. ADV. PG. 216.
 ⓈTransvision, Inc., 460 North Ave., New Rochelle, N. Y.
 ⓈTUNG-SOL LAMP WORKS, INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
 ⓈVacuum Tube Products, 302 North Clementine St., Oceanside, Calif.
 ⓈWATERMAN PRODUCTS CO., INC., 2445-63 Emerald St., Philadelphia 25, Pa. ADV. PG. 252.
 ⓈZetka Television Tubes, Inc., 131-37 Getty Ave., Clifton, N. J.

TUBES—Detector

ⓈCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
 ⓈNational Union Radio Corp., 350 Scotland Rd., Orange, N. J.
 ⓈNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 ⓈRAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
 ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓈSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

TUBES—Electrometer

ⓈCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 ⓈHeintz & Kaufman Div. of The Robert Dollar Co., 947 Broadway, Redwood City, Calif.
 ⓈRAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
 ⓈSonotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y.
 ⓈVICTOREEN INSTRUMENT CO., 5806 Hough Ave., Cleveland 3, Ohio. ADV. PG. 241.
 ⓈWESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Geiger

Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 ⓈAmperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
 ⓈAnton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.

ⓈBALLANTINE LABORATORIES, INC., Boonton, N. J. ADV. PG. 96.
 ⓈCyclotron Specialties Co., Moraga 8, Calif.
 ⓈDistillation Products Industries, Vacuum Equip. Div., 755 Ridge Road West, Rochester 3, N. Y.
 ⓈECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
 Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
 ⓈEL-TRONICS, INC., 2649 No. Howard St., Philadelphia 33, Pa. ADV. PG. 238.
 ⓈGENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
 ⓈGeophysical Instrument Co., 1820 N. Nash St., Arlington, Va.
 ⓈGuardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
 Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 ⓈKelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
 ⓈManufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 ⓈNorth American Philips Co. Inc., 100 E. 42nd St., New York 17, N. Y.
 ⓈNuclear Development Lab., P. O. Box 7034, Kansas City, Mo.
 ⓈNuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
 ⓈNuclonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
 ⓈOmaha Scientific Supply Co., 3601 N. 24th St., Omaha 10, Neb.
 ⓈRadiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 ⓈRAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
 ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓈSYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
 ⓈTechnical Associates, 3730 San Fernando Rd., Glendale 4, Calif.
 ⓈTracerlab Inc., 130 High St., Boston 10, Mass.
 ⓈVICTOREEN INSTRUMENT CO., 5806 Hough Ave., Cleveland 3, Ohio. ADV. PG. 241.
 ⓈWESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Germicidal

Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
 ⓈGENERAL ELECTRIC CO., Lamp Dept., Nela Park, Cleveland 12, Ohio. ADV. PG. 5 to 18.
 ⓈGuardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
 ⓈKermite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
 Shannon Luminous Materials Co., 7356 Santa Monica Blvd., Hollywood 46, Calif.
 Sperti Inc., Cincinnati, Ohio.
 Ultra-Violet Products, Inc., 145 Pasadena Ave., S. Pasadena, Calif.
 ⓈWESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Hearing Aid

ⓈAmperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
 Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.
 Precision Tube Co., Inc., 3828 Terrace St., Philadelphia 28, Pa.
 ⓈRAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
 ⓈSonotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y.
 ⓈStandard Arcturus Corp., 54 Clark St., Newark 4, N. J.
 ⓈSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

TUBES—Industrial

ⓈAmperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
 ⓈContinental Electric Co., Geneva, Ill.
 ⓈCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 ⓈECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
 ⓈEitel-McCullough, Inc., San Bruno, Calif.
 ⓈElectronic Enterprises Inc., 65-7th Ave., Newark 4, N. J.
 ⓈELECTRONS, INC., 127 Sussex Ave., Newark 4, N. J. ADV. PG. 255.
 ⓈFEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 ⓈGuardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
 ⓈHeintz & Kaufman Div. of The Robert Dollar Co., 947 Broadway, Redwood City, Calif.
 Isolantite Mfg. Corp., Stirling, N. J.
 Kip Electronics Corp., 155 Waverly Place, New York 14, N. Y.
 ⓈKuthe Laboratories, 150 Summit St., Newark 4, N. J.
 ⓈMachlett Laboratories, Springdale, Conn.

ⓈNATIONAL ELECTRONICS, INC., Geneva, Ill. ADV. PG. 100.
 ⓈNational Union Radio Corp., 350 Scotland Rd., Orange, N. J.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 ⓈRAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
 ⓈStandard Arcturus Corp., 54 Clark St., Newark 4, N. J.
 ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓈTaylor Tubes, Inc., 2312 Wabansia Ave., Chicago 47, Ill.
 ⓈUnited Electronics Co., 42 Spring St., Newark 2, N. J.
 ⓈWESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Klystron

Bomac Laboratories, Beverly, Mass.
 ⓈECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
 ⓈFEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 Lewis & Kaufman, Inc., P. O. Box 337, 90 El Rancho Ave., Los Gatos, Calif.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 ⓈRAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
 ⓈSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
 ⓈStandard Arcturus Corp., 54 Clark St., Newark 4, N. J.
 ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓈSYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
 ⓈVarian Associates, 99 Washington St., San Carlos, Calif.

TUBES—magnetron

ⓈAmperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
 ⓈAnton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
 Bomac Laboratories, Beverly, Mass.
 ⓈFEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 ⓈGuardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
 ⓈLitton Industries, San Carlos, Calif.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 ⓈRAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
 ⓈStandard Arcturus Corp., 54 Clark St., Newark 4, N. J.
 ⓈStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓈSYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

TUBES—Mass Spectrometer

ⓈManufacturers Engr. & Equip. Corp., Willow Grove, Pa. Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
 ⓈVacuum Electronic Engineering Co., 316 37th St., Brooklyn 2, N. Y.

TUBES—Microwave Receiving or Transmitting

ⓈAmperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
 Bomac Laboratories, Beverly, Mass.
 ⓈECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
 ⓈGENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
 ⓈKent Co., F. C., 64-72 Howard St., Irvington, N. J.
 ⓈKuthe Laboratories, Inc., 150 Summit St., Newark 4, N. J.
 Lewis & Kaufman, Inc., P. O. Box 337, 90 El Rancho Ave., Los Gatos, Calif.
 ⓈLitton Industries, San Carlos, Calif.
 ⓈNational Union Radio Corp., 350 Scotland Rd., Orange, N. J.
 ⓈPhilco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 ⓈRADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 ⓈRAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
 ⓈSPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- Ⓥ TUNG-SOL LAMP WORKS, INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
- Ⓥ Varian Associates, 99 Washington St., San Carlos, Calif.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Phototubes and Photocells

- Ⓥ American Scientific Co., P. O. Box 1, Highbridge Station, New York 52, N. Y.
- Ⓥ Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- Ⓥ Continental Electric Co., Geneva, Ill.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ INSTRUMENT DEVELOPMENT LABORATORIES, INC., Needham Heights, Mass. ADV. PG. 243.
- Ⓥ Photobell Company, 116 Nassau St., New York 7, N. Y.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ripley Co., Inc., P. O. Box 31, Middletown, Conn.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., Electronics Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.
- Ⓥ WESTON ELECTRICAL INSTRUMENT CORP., 614 Fellinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

TUBES—Pirani

- Ⓥ Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd., W., Rochester 3, N. Y.
- Ⓥ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓥ Fredericks Co., Geo. E., Bethayres, Pa.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ Heintz & Kaufman Div. of The Robert Dollar Co., 947 Broadway, Redwood City, Calif.
- Ⓥ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- Ⓥ Vacuum Tube Products, 302 N. Clementine St., Ocean-side, Calif.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Quartz (for Short Wave Medical Apparatus)

- Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.
- Hanovia Chemical & Mfg. Co., 233 N. J. R. R. Ave., Newark, N. J.
- Ⓥ Kemlite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
- Ⓥ Thermal Syndicate Ltd., 12 E. 46th St., New York 17, N. Y.
- Ultra-Violet Products, Inc., 145 Pasadena Ave., S. Pasadena, Calif.

TUBES—Receiving

- Ⓥ Amperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
- Ⓥ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓥ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ Hytron Radio & Electronics Corp., 76 Lafayette St., Salem, Mass.
- Ⓥ National Union Radio Corp., 350 Scotland Rd., Orange, N. J.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ RAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ TUNG-SOL LAMP WORKS INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Rectifying

- Ⓥ Amperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
- Ⓥ CHATHAM ELECTRONICS CORP., 475 Washington St., Newark 2, N. J. ADV. PG. 126.

- Ⓥ Continental Electric Co., Geneva, Ill.
- Ⓥ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓥ ECLIPSE-PIONEER DIV., Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- Ⓥ Eitel-McCullough, Inc., San Bruno, Calif.
- Ⓥ Electronic Enterprises Inc., 65 7th Ave., Newark 4, N. J.
- Ⓥ ELECTRONS INC., 127 Sussex Ave., Newark 4, N. J. ADV. PG. 255.
- Ⓥ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ GENERAL ELECTRONICS, INC., 101 Hazel St., Paterson, N. J. ADV. PG. 265.
- Ⓥ Guardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
- Ⓥ Heintz & Kaufman, Div. of The Robert Dollar Co., 947 Broadway, Redwood City, Calif.
- Ⓥ Hytron Radio & Electronics Corp., 76 Lafayette St., Salem, Mass.
- Ⓥ Kuthe Laboratories, Inc., 150 Summit St., Newark 4, N. J.
- Ⓥ McColin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif.
- Ⓥ Machlett Laboratories, Springdale, Conn.
- Ⓥ NATIONAL ELECTRONICS, INC., Geneva, Ill. ADV. PG. 100.
- Ⓥ National Union Radio Corp., 350 Scotland Rd., Orange, N. J.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ RAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
- Ⓥ Sheldon Electric Co., 76-86 Coit St., Irvington, N. J.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ Taylor Tubes, Inc., 2312 Wabansia Ave., Chicago 47, Ill.
- Ⓥ TUNG-SOL LAMP WORKS INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
- Ⓥ United Electronics Co., 42 Spring St., Newark 2, N. J.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Sonic Gas-Filled

- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- Bomac Laboratories, Beverly, Mass.
- Ⓥ Guardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.

TUBES—Strobotron

- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- Bomac Laboratories, Beverly, Mass.
- Ⓥ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- Ⓥ Kemlite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

TUBES—Subminiature

- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ RAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 247.
- Ⓥ Sonotone Corp., P. O. Box 200, Saw Mill River Rd., Elmsford, N. Y.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- Ⓥ TUNG-SOL LAMP WORKS INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
- Ⓥ VICTOREEN INSTRUMENT CO., 5806 Hough St., Cleveland 3, Ohio. ADV. PG. 241.

TUBES—Television

See Tubes, Cathode Ray

TUBES—Television Pickup

- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ Remington Rand, Inc., Vericon Dept., 315 4th Ave., New York, N. Y.

TUBES—Television Picture

- American Television, Inc., 523 S. Plymouth St., Chicago 6, Ill.
- Ⓥ Arcturus Electronics, Inc., 54 Clark St., Newark, N. J.
- Ⓥ DuMont Laboratories, Inc., Allen B. Tube Div. & General Offices, 750 Bloomfield Ave., Clifton, N. J.
- Ⓥ Eitel-McCullough, Inc., San Bruno, Calif.
- Ⓥ Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.
- Ⓥ Eureka Television & Tube Corp., 69 Fifth Ave., Hawthorne, N. J.
- Ⓥ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ GENERAL ELECTRONICS, INC., 101 Hazel St., Paterson, N. J. ADV. PG. 265.
- Ⓥ Guardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
- Ⓥ Haydu Brothers, Plainfield, N. J.
- Ⓥ Hytron Radio & Electronics Corp., 76 Lafayette St., Salem, Mass.
- Ⓥ National Union Radio Corp., 350 Scotland Rd., Orange, N. J.
- Ⓥ National Video Corp., 3019 W. 47th St., Chicago, Ill.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ Rauland Corp., 4545 N. Knox Ave., Chicago 41, Ill.
- Ⓥ RAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
- Ⓥ Sheldon Electric Co., 76-86 Coit St., Irvington, N. J.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- Ⓥ TEL-O-TUBE CORP. OF AMERICA, Paterson, N. J. ADV. PG. 267.
- Ⓥ TUNG-SOL LAMP WORKS INC., 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
- Ⓥ Vacuum Tube Products, 302 North Clementine St., Ocean-side, Calif.

TUBES—Television Projection

- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ National Union Radio Corp., 350 Scotland Rd., Orange, N. J.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ Vacuum Tube Products, 302 N. Clementine St., Ocean-side, Calif.

TUBES—Thyratron

- Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
- Ⓥ Amperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
- Bomac Laboratories, Beverly, Mass.
- Ⓥ CHATHAM ELECTRONICS CORP., 475 Washington St., Newark 2, N. J. ADV. PG. 126.
- Ⓥ Continental Electric Co., Geneva, Ill.
- Ⓥ DuMont Laboratories, Inc., Allen B., Instrument Div., 1000 Main Ave., Clifton, N. J.
- Ⓥ Eitel-McCullough, Inc., San Bruno, Calif.
- Ⓥ Electronic Enterprises, Inc., 65 7th Ave., Newark 4, N. J.
- Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.
- Ⓥ ELECTRONS INC., 127 Sussex Ave., Newark 4, N. J. ADV. PG. 255.
- Ⓥ FEDERAL TELEPHONE & RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓥ GENERAL ELECTRIC CO., Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- Ⓥ GENERAL ELECTRONICS, INC., 101 Hazel St., Paterson, N. J. ADV. PG. 265.
- Ⓥ Guardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
- Ⓥ Kuthe Laboratories, Inc., 150 Summit St., Newark 4, N. J.
- Ⓥ NATIONAL ELECTRONICS, INC., Geneva, Ill. ADV. PG. 100.
- Ⓥ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓥ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓥ RAYTHEON MFG. CO., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
- Ⓥ Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
- Ⓥ Standard Telephone & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- Ⓥ United Electronics Co., 42 Spring St., Newark 2, N. J.
- Ⓥ WESTINGHOUSE ELECTRIC CORP., Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Transmitting and Power

- Ⓥ Amperex Electronic Corp., 25 Washington St., Brooklyn, N. Y.
- Ⓥ CHATHAM ELECTRONICS CORP., 475 Washington St., Newark 2, N. J. ADV. PG. 126.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- **Cossor (Canada) Ltd.**, 301-303 Windsor St., Halifax, N. S., Canada.
- **Eitel-McCullough, Inc.**, San Bruno, Calif.
- **Electronic Enterprises, Inc.**, 65 7th Ave., Newark 4, N. J.
- **Electronic Products Co.**, 111 E. Third St., Mt. Vernon, N. Y.
- **FEDERAL TELEPHONE AND RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- **GENERAL ELECTRIC CO.**, Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **General Electronics, Inc.**, 101 Hazel St., Paterson, N. J.
- **Guardian Electronics Corp.**, 614 W. 51st St., New York 19, N. Y.
- **Heintz & Kaufman Div. of the Robert Dollar Co.**, 947 Broadway, Redwood City, Calif.
- **Hytron Radio & Electronics Corp.**, 76 Lafayette St., Salem, Mass.
- **Kuthe Laboratories, Inc.**, 150 Summit St., Newark 4, N. J.
- **Lewis & Kaufman, Inc.**, P. O. Box 337, 90 El Rancho Ave., Los Gatos, Calif.
- **Litton Industries**, San Carlos, Calif.
- **Machlett Laboratories**, Springdale, Conn.
- **National Union Radio Corp.**, 350 Scotland Rd., Orange, N. J.
- **RADIO CORP. OF AMERICA**, RCA Victor Div. Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- **Standard Arcturus Corp.**, 54 Clark St., Newark 4, N. J.
- **Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- **SYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- **Taylor Tubes, Inc.**, 2312 Wabansia Ave., Chicago 47, Ill.
- **TUNG-SOL LAMP WORKS INC.**, 95 Eighth Ave., Newark 4, N. J. ADV. PG. 38.
- **United Electronics Co.**, 42 Spring St., Newark 2, N. J.
- **WESTINGHOUSE ELECTRIC CORP.**, Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—TR and Anti TR

- **Bomac Laboratories**, Beverly, Mass.
- **ECLIPSE-PIONEER DIV.**, Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- **GENERAL ELECTRIC CO.**, Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **RAYTHEON MFG. CO.**, Power Tube Div., Waltham 54, Mass. ADV. PG. 257.
- **Standard Arcturus Corp.**, 54 Clark St., Newark 4, N. J.
- **SYLVANIA ELECTRIC PRODUCTS, INC.**, 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- **WESTINGHOUSE ELECTRIC CORP.**, Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—uhf

- **ECLIPSE-PIONEER DIV.**, Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- **Eitel-McCullough Inc.**, San Bruno, Calif.
- **FEDERAL TELEPHONE & RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- **GENERAL ELECTRIC CO.**, Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **Heintz & Kaufman Div. of The Robert Dollar Co.**, 947 Broadway, Redwood City, Calif.
- **Lewis & Kaufman, Inc.**, P. O. Box 337, 90 El Rancho Ave., Los Gatos, Calif.
- **Machlett Laboratories**, Springdale, Conn.
- **National Union Radio Corp.**, 350 Scotland Rd., Orange, N. J.
- **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- **RAYTHEON MFG. CO.**, Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
- **Standard Arcturus Corp.**, 54 Clark St., Newark 4, N. J.
- **Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- **SYLVANIA ELECTRIC PRODUCTS, INC.**, 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.
- **United Electronics Co.**, 42 Spring St., Newark 2, N. J.
- **WESTINGHOUSE ELECTRIC CORP.**, Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—Vacuum Thermocouple

- **American Thermo Electric Co.**, 67 E. 8th St., New York 3, N. Y.
- **Amperex Electronic Corp.**, 25 Washington St., Brooklyn 1, N. Y.
- **BALLANTINE LABS., INC.**, Boonton, N. J. ADV. PG. 96.
- **CHATHAM ELECTRONICS CORP.**, 475 Washington St., Newark 2, N. J. ADV. PG. 126.
- **Cossor (Canada) Ltd.**, 301-303 Windsor St., Halifax, N. S., Canada.

- **FEDERAL TELEPHONE & RADIO CORP.**, 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- **Guardian Electronics Corp.**, 614 W. 51st St., New York 19, N. Y.
- **Hastings Instrument Co.**, Box 1275, Hampton, Va.
- **Isolantite Mfg. Corp.**, Stirling, N. J.
- **National Research Corp.**, 70 Memorial Drive, Cambridge 42, Mass.
- **RAYTHEON MFG. CO.**, Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
- **Reeder & Co.**, Charles M., 171 Victor Ave., Detroit 3, Mich.
- **Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- **SYLVANIA ELECTRIC PRODUCTS, INC.**, 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

TUBES—Voltage Regulating

- **Aerolux Light Corp.**, 653 11th Ave., New York 19, N. Y.
- **Amperex Electronic Corp.**, 25 Washington St., Brooklyn 1, N. Y.
- **Anton Electronic Laboratories, Inc.**, 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- **Cossor (Canada) Ltd.**, 301-303 Windsor St., Halifax, N. S., Canada.
- **ECLIPSE-PIONEER DIV.**, Bendix Aviation Corp., Teterboro, N. J. ADV. PG. 176.
- **Electronic Enterprises, Inc.**, 65 7th Ave., Newark 4, N. J.
- **Electronic Products Co.**, 111 E. 3rd St., Mt. Vernon, N. Y.
- **GENERAL ELECTRIC CO.**, Electronics Dept., Tube Div., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- **Guardian Electronics Corp.**, 614 W. 51st St., New York 19, N. Y.
- **Kuthe Laboratories, Inc.**, 150 Summit St., Newark 4, N. J.
- **National Union Radio Corp.**, 350 Scotland Rd., Orange, N. J.
- **North American Philips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- **RAYTHEON MFG. CO.**, Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass. ADV. PG. 257.
- **Standard Arcturus Corp.**, 54 Clark St., Newark 4, N. J.
- **Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London, W. C. 2, England.
- **VICTOREEN INSTRUMENT CO.**, 5806 Hough Ave., Cleveland 3, Ohio. ADV. PG. 241.
- **WESTINGHOUSE ELECTRIC CORP.**, Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBES—X-Ray

- **Amperex Electronic Corp.**, 25 Washington St., Brooklyn 1, N. Y.
- **Anton Electronic Laboratories, Inc.**, 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
- **Guardian Electronics Corp.**, 614 W. 51st St., New York 19, N. Y.
- **Machlett Laboratories**, Springdale, Conn.
- **North American Philips Co., Inc.**, 100 East 42nd St., New York, N. Y.
- **Picker X-Ray Corp.**, 300 Fourth Ave., New York 10, N. Y.
- **Standard Telephones & Cables Ltd.**, Connaught House, Aldwych, London W. C. 2, England.
- **WESTINGHOUSE ELECTRIC CORP.**, Electronic Tube Sales Dept., Bloomfield, N. J. ADV. PG. 78, 79.

TUBING—Aluminum Waveguide

- **GENERAL PLATE DIVISION**, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- **Kaiser Aluminum & Chemical Sales, Inc.**, 1924 Broadway, Oakland 12, Calif.
- **SUPERIOR TUBE CO.**, 2504 Germantown Pike, Norristown, Pa. ADV. PG. 44, 45.
- **Uniform Tubes, Shurs Lane & Laruiston Co.**, Roxborough, Philadelphia, Pa.

TUBING—Brass or Copper

- **Bridgeport Brass Co.**, 30 Grand St., Bridgeport, Conn.
- **Chase Brass & Copper Co., Inc.**, Waterbury 91, Conn.
- **Ilisco Copper Tube & Products, Inc.**, Mariemont Ave., Mariemont, Cincinnati 27, Ohio.
- **JELLIFF MFG. CORP.**, C. O., 200 Pequot Ave., Southport, Conn. ADV. PG. 46.
- **Phelps Dodge Copper Products Corp.**, 40 Wall St., New York 5, N. Y.
- **Precision Tube Co.**, 3828 Terrace St., Philadelphia 28, Pa.
- **Production Engineering Co.**, 173 Sargeant Ave., Clifton, N. J.
- **Revere Copper & Brass Inc.**, 230 Park Ave., New York 17, N. Y.
- **Schutter, Carl W.**, Rockville Centre, N. Y.
- **Uniform Tubes, Shurs Lane & Laruiston Co.**, Roxborough, Philadelphia, Pa.

TUBING—Ceramic

- **AMERICAN LAVA CORP.**, Chattanooga 5, Tenn. ADV. PG. 27.
- **Crowley & Co., Inc.**, Henry L., 1 Central Ave., West Orange, N. J.
- **Electrical Refractories Co.**, 50 Clark St., East Palestine, Ohio.
- **GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- **Isolantite Mfg. Corp.**, Stirling, N. J.
- **Kirchberger & Co., Inc.**, M., 1425 37th St., Brooklyn 18, N. Y.
- **Louthan Mfg. Co.**, East Liverpool, Ohio.
- **Locke Incorporated**, P. O. Box 57, Baltimore 3, Md.
- **Mykroy, Inc.**, Arlington Heights Airport, Arlington Heights, Ill.
- **Norton Co.**, 1 New Bond St., Worcester 6, Mass.
- **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, Pa. ADV. PG. 147.
- **Thor Ceramics Inc.**, 225 Belleville Ave., Bloomfield, N. J.

TUBING—Fabric

- **Anchor Webbing Co.**, P. O. Box 1624, Providence, R. I.
- **BRAND & CO., WM.**, Willimantic, Conn. ADV. PG. 120, 121.
- **Dielectric Materials Co.**, 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- **Franklin Fibre-Lamitex Corp.**, 12th and French Sts., Wilmington, Delaware.
- **GENERAL ELECTRIC CO.**, Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- **Insulation Manufacturers Corp.**, 565 W. Washington Blvd., Chicago 6, Ill.
- **Mitchell-Rand Insulation Co., Inc.**, 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- **National Varnished Products Corp.**, 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
- **VARFLEX CORP.**, 308 N. Jay St., Rome, N. Y. ADV. PG. 259.

TUBING—Fibre

- **Baer Co.**, N. S., 9 Montgomery St., Hillside, N. J.
- **Brandywine Fibre Co.**, 15th & Poplar Sts., Wilmington, Del.
- **CLEVELAND CONTAINER CO., THE**, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- **Franklin Fibre-Lamitex Corp.**, 12th & French Sts., Wilmington, Del.
- **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- **Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- **Lamicoid Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Ill.
- **MITCHELL-RAND INSULATION CO., INC.**, 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- **National Gasket & Mfg. Co., Inc.**, 124 E. 25th St., New York 10, N. Y.
- **NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- **PARAMOUNT PAPER TUBE CO.**, 614 Lafayette St., Fort Wayne, Ind. ADV. PG. 176.
- **Spaulding Fibre Co., Inc.**, 310 Wheeler St., Tonawanda, N. Y.
- **Taylor Fibre Co.**, Norristown, Pa.
- **VARFLEX CORP.**, 308 N. Jay St., Rome, N. Y. ADV. PG. 259.
- **Wilmington Fibre Specialty Co.**, P. O. Drawer 1028, Wilmington 99, Del.

TUBING—Fused Quartz

- **GENERAL ELECTRIC CO.**, Lamp Dept., Nela Park, Cleveland 12, Ohio. ADV. PG. 5 to 18.

TUBING—Glass

- **American Structural Products Co.**, Toledo 1, Ohio.
- **Bache & Co., Semon**, 636 Greenwich St., New York, N. Y.
- **BRAND & CO., WM.**, Willimantic, Conn. ADV. PG. 120, 121.
- **Brandywine Fibre Co.**, 15th & Poplar Sts., Wilmington, Del.
- **CORNING GLASS WORKS**, Corning, N. Y. ADV. PG. 134.
- **GENERAL ELECTRIC CO.**, Lamp Dept., Nela Dept., Cleveland 12, Ohio. ADV. PG. 5 to 18.
- **MITCHELL-RAND INSULATION CO., INC.**, 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- **Harshaw Scientific Div. of the Harshaw Chemical Co.**, 1945 E. 97th St., Cleveland 6, Ohio.

TUBING—Glass Fibre Insulation

- **BENTLEY-HARRIS MFG. CO.**, Conshohocken, Pa. ADV. PG. 112.
- **BRAND & CO., WM.**, Willimantic, Conn. ADV. PG. 120, 121.
- **Brandywine Fibre Co.**, 15th & Poplar Sts., Wilmington, Del.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓜ Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Delaware.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- Ⓜ Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- Ⓜ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓜ National Electric Co., Columbus 16, Ohio.
- Ⓜ NATIONAL VARNISHED PRODUCTS CORP., 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
- Ⓜ NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
- Ⓜ Taylor Fibre Co., Norristown, Pa.
- Ⓜ VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.

TUBING—Knitted Wire

- Ⓜ Metal Textile Corp., 647 E. First Ave., Roselle, N. J.

TUBING—Metal and Alloy

- Ⓜ Bishop & Co., J., Platinum Works, Malvern, Pa.
- Ⓜ Bundy Tubing Co., 8109 E. Jefferson Ave., Detroit 14, Mich.
- Ⓜ Carpenter Steel Co., 142 West Bern St., Reading, Pa.
- Ⓜ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓜ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- Ⓜ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓜ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 295.
- Ⓜ Haynes Stellite Division, Union Carbide & Carbon Corp., Kokomo, Indiana.
- Ⓜ International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
- Ⓜ Kaiser Aluminum & Chemical Sales, Inc., 1924 Broadway, Oakland 12, Calif.
- Ⓜ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓜ National Lead Co., 111 Broadway, New York 6, N. Y.
- Ⓜ Precision Tube Co., 3828 Terrace St., Philadelphia 28, Pa.
- Ⓜ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- Ⓜ Revere Copper & Brass, Inc., 230 Park Avenue, New York 17, N. Y.
- Ⓜ Summerill Tubing Co., Div. Columbia Steel & Shafting Co., P. O. Box 1557, Pittsburgh 30, Pa.
- Ⓜ SUPERIOR TUBE CO., 2504 Germantown Pike, Norristown, Pa. ADV. PG. 44, 45.
- Ⓜ Timken Roller Bearing Co., The, Canton, Ohio.
- Ⓜ Uniform Tubes, Shurs Lane & Larviston St., Roxborough, Philadelphia, Pa.

TUBING—Mica

- Ⓜ Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
- Ⓜ Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- Ⓜ Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- Ⓜ Macallen Co., The, 16 Macallen St., Boston 27, Mass.
- Ⓜ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓜ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.

TUBING—Nickel

- Ⓜ Bishop & Co., J., Platinum Works, Malvern, Pa.
- Ⓜ Bundy Tubing Co., 8109 E. Jefferson Ave., Detroit 14, Mich.
- Ⓜ International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
- Ⓜ Precision Tube Co., 3828 Terrace St., Philadelphia 28, Pa.
- Ⓜ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- Ⓜ SUPERIOR TUBE CO., 2504 Germantown Pike, Norristown, Pa. ADV. PG. 44, 45.

TUBING—Paper

- Ⓜ ACCURATE PAPER TUBE CO., 851 N. Noble St., Chicago 22, Ill. ADV. PG. 268.
- Ⓜ CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- Ⓜ Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Del.
- Ⓜ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓜ PARAMOUNT PAPER TUBE CORP., 614 Lafayette St., Fort Wayne 4, Ind. ADV. PG. 176.
- Ⓜ PRECISION PAPER TUBE CO., 2033 W. Charleston St., Chicago 47, Ill. ADV. PG. 215.
- Ⓜ Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S. Pasadena, Calif.

TUBING—Plastic

- Ⓜ Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
- Ⓜ B & C Insulation Products, Inc., Lincoln Highway, Iselin, N. J.
- Ⓜ Baer Co., N. S., 9 Montgomery St., Hillside, N. J.
- Ⓜ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓜ Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- Ⓜ Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Ⓜ CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- Ⓜ Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
- Ⓜ Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ Formica Co., The, 4640 Spring Grove Ave., Cincinnati 32, Ohio.
- Ⓜ Franklin Fibre-Lamitex Corp., 12th & French Sts., Wilmington, Del.
- Ⓜ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓜ Industrial Synthetics Corp., 225 North Ave., Garwood, N. J.
- Ⓜ Insulating Tube Co., 26 Cottage St., P. O. Box 1, Poughkeepsie, N. Y.
- Ⓜ Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
- Ⓜ Lamicoide Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
- Ⓜ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓜ Micrafast Products Inc., 701 McCarter Highway, Newark 5, N. J.
- Ⓜ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓜ NATIONAL VARNISHED PRODUCTS CORP., 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
- Ⓜ NATIONAL VULCANIZED FIBRE CO., Wilmington, Del. ADV. PG. 183.
- Ⓜ Panelyte Div., T. Regis Paper Co., 230 Park Ave., New York, N. Y.
- Ⓜ Parkwood Corp., Wakefield, Mass.
- Ⓜ Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.
- Ⓜ Plex Corp., P. O. Box 1019, Hartford, Conn.
- Ⓜ PRECISION PAPER TUBE CO., 2033 W. Charleston St., Chicago 47, Ill. ADV. PG. 215.
- Ⓜ RICHARDSON CO., THE, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- Ⓜ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, California.
- Ⓜ Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
- Ⓜ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Ⓜ Synthane Corp., Oaks, Penna.
- Ⓜ Taylor Fibre Co., Norristown, Pa.
- Ⓜ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
- Ⓜ U. S. Stoneware Co., The, Akron 9, Ohio.
- Ⓜ VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.

TUBING—Precious Metal

- Ⓜ Baker & Co., Inc., 113 Astor St., Newark 5, N. J.
- Ⓜ Bishop & Co., J., Platinum Works, Malvern, Pa.
- Ⓜ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓜ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓜ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓜ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- Ⓜ Uniform Tubes, Shurs Lane & Larviston St., Roxborough, Philadelphia, Pa.
- Ⓜ Wildberg Bros. Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.

TUBING—Steel

- Ⓜ Armco Steel Corp., 703 Curtis St., Middletown, Ohio.
- Ⓜ Bishop & Co., J., Platinum Works, Malvern, Pa.
- Ⓜ Bundy Tubing Co., 8109 E. Jefferson Ave., Detroit 14, Mich.
- Ⓜ Carpenter Steel Co., Union, N. J.
- Ⓜ CRUCIBLE STEEL CO. OF AMERICA, 405 Lexington Ave., New York 17, N. Y. ADV. PG. 179.
- Ⓜ Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.
- Ⓜ Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
- Ⓜ Revere Copper & Brass Inc., 230 Park Avenue, New York 17, N. Y.
- Ⓜ Ryerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.
- Ⓜ Summerill Tubing Co., Div. Columbia Steel & Shafting Co., P. O. Box 1557, Pittsburgh 30, Pa.
- Ⓜ SUPERIOR TUBE CO., 2504 Germantown Pike, Norristown, Pa. ADV. PG. 44, 45.
- Ⓜ Timken Roller Bearing Co., The, Canton, Ohio.
- Ⓜ Uniform Tubes, Shurs Lane & Larviston St., Roxborough, Philadelphia, Pa.

TUBING—Synthetic Resin

- Ⓜ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓜ Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.
- Ⓜ CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- Ⓜ Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Del.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ Industrial Synthetics Corp., 225 North Ave., Garwood, N. J.
- Ⓜ Insulating Tube Co., 26 Cottage St., P. O. Box 1, Poughkeepsie, N. Y.
- Ⓜ Lamicoide Fabricators, Inc., 4545 W. Cortland St., Chicago 39, Ill.
- Ⓜ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓜ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓜ Parkwood Corp., Wakefield, Mass.
- Ⓜ Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
- Ⓜ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Ⓜ Taylor Fibre Co., Norristown, Pa.
- Ⓜ Western Felt Works, 4029 Ogden Ave., Chicago, Ill.
- Ⓜ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

TUBING—Varnished or Lacquered

- Ⓜ Alpha Wire Corp., 50 Howard St., New York 13, N. Y.
- Ⓜ Anchor Webbing Co., P. O. Box 1624, Providence, R. I.
- Ⓜ B & C Insulation Products, Inc., Lincoln Highway, Iselin, N. J.
- Ⓜ BENTLEY-HARRIS MFG. CO., Conshohocken, Pa. ADV. PG. 112.
- Ⓜ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓜ CLEVELAND CONTAINER CO., THE, 6201 Barberton Ave., Cleveland 2, Ohio. ADV. PG. 153.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓜ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓜ Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- Ⓜ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓜ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓜ National Electric Co., Columbus 16, Ohio.
- Ⓜ NATIONAL VARNISHED PRODUCTS CORP., 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
- Ⓜ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- Ⓜ VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.

TUBING—Varnished Cambric Insulation

- Ⓜ Alpha Wire Corp., 50 Howard St., New York 13, N. Y.
- Ⓜ Anchor Webbing Co., P. O. Box 1624, Providence, R. I.
- Ⓜ BENTLEY-HARRIS MFG. CO., Conshohocken, Pa. ADV. PG. 112.
- Ⓜ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓜ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓜ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- Ⓜ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- Ⓜ GENERAL ELECTRIC CO., Chemical Dept., Pittsfield, Mass. ADV. PG. 5 to 18.
- Ⓜ Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- Ⓜ MICA INSULATOR CO., Schenectady 1, N. Y. ADV. PG. 232.
- Ⓜ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.
- Ⓜ NATIONAL VARNISHED PRODUCTS CORP., 211 Randolph Ave., Woodbridge, N. J. ADV. PG. 248.
- Ⓜ VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.

TUNERS—a-m

- Ⓜ Adaptol Co., 120 New Lots Ave., Brooklyn, N. Y.
- Ⓜ Aladdin Radio Industries, Inc., 501 W. 35th St., Chicago 16, Ill.
- Ⓜ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
- Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓜ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

Ⓜ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
 Ⓜ Delco Radio Div., General Motors Corp., Kokomo, Ind. Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
 Ⓜ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
 Hartley Co., Inc., H. A., 152 Hammersmith Rd., London W. 6, England.
 Kinsey Radio Mfg. Co., 5804 Oak St., Omaha 7, Neb.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Ⓜ Sargent-Raymont Co., The, 212 Ninth St., Oakland 7, Calif.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

TUNERS—f-m

Ⓜ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 Ⓜ Atlas Coil Winders, Inc., Stamford, Conn.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓜ BROWNING LABORATORIES, INC., 750 Main St., Winchester Mass. ADV. PG. 30.
 Ⓜ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
 Ⓜ DuMont Laboratories, Inc., Allen B., Television Receiver Div., Market St., East Paterson, N. J.
 Ⓜ Fisher Radio Corp., 41 E. 47th St., New York, N. Y.
 Ⓜ HEATH CO., Benton Harbor, Mich. ADV. PG. 279.
 Kinsey Radio Mfg. Co., 5807 Oak St., Omaha 7, Neb.
 Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
 Ⓜ Sargent-Raymont Co., The, 212 Ninth St., Oakland 9, Calif.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.

TUNERS—f-m-a-m

Ⓜ Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
 Ⓜ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
 Ⓜ BROWNING LABORATORIES, INC., 750 Main St., Winchester, Mass. ADV. PG. 30.
 Ⓜ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
 Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.
 Ⓜ Fisher Radio Corp., 41 E. 47th St., New York, N. Y.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Ⓜ Radio Craftsmen, Inc., 1341 S. Michigan Ave., Chicago 5, Ill.
 Ⓜ Sargent-Raymont Co., The, 212 Ninth St., Oakland 7, Calif.
 Ⓜ Scott Radio Labs., Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.

TUNERS—Klystron

Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Ⓜ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
 Ⓜ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC., 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
 Ⓜ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.

TUNERS—Microwave

Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Ⓜ Microwave Equipment Co., Inc., North Caldwell, N. J.
 Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓜ Polarad Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.
 Ⓜ POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC. 202 Tillary St., Brooklyn 1, N. Y. ADV. PG. 56, 57.
 Ⓜ Varian Associates, 99 Washington St., San Carlos, Calif.
 Ⓜ Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.

TUNERS—Permeability

Ⓜ Aladdin Radio Industries Inc., 501 W. 35th St., Chicago 16, Ill.
 Ⓜ Atlas Coil Winders, Inc., Stamford, Conn.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.

Ⓜ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
 Ⓜ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
 Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Ⓜ Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
 Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
 Ⓜ Radio Condenser Co., Camden, N. J.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Ⓜ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.
 Ⓜ Teleradio Engineering Corp., 99 Wall St., New York 5, N. Y.

TUNERS—Television

Ⓜ Aladdin Radio Industries Inc., 501 W. 35th St., Chicago 16, Ill.
 Ⓜ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 DX Radio Products Co., Inc., 2304 Armitage Ave., Chicago 47, Ill.
 Ⓜ DuMont Laboratories, Inc., Allen B., Electronic Parts Div., Market St., East Paterson, N. J.
 Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
 Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Ⓜ Emerson Radio & Phonograph Corp., 111 8th Ave., New York, N. Y.
 Ⓜ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
 Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
 Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
 Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
 Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
 Ⓜ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
 Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓜ Radio Condenser Co., Camden, N. J.
 Ⓜ S. M. A. CO., 4721 N. Kedzie, Chicago, Ill. ADV. PG. 277.
 Ⓜ Sarkes Tarzian Inc., 415 N. College Ave., Bloomington, Ind.
 Ⓜ Scott Radio Labs., Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Variable Condenser Corp., 65 Hope St., Brooklyn, N. Y.
 Vokar Corp., 7300 Huron River Drive, Dexter, Mich.

TUNERS—Television rf

Ⓜ Aladdin Radio Industries Inc., 501 W. 35th St., Chicago 16, Ill.
 Ⓜ Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.
 Ⓜ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
 Ⓜ DuMont Laboratories, Inc., Allen B., Electronic Parts Div., Market St., East Paterson, N. J.
 Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.
 Ⓜ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
 Ⓜ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
 Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
 Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
 Ⓜ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
 Ⓜ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
 Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Ⓜ S. M. A. CORP., 4721 N. Kedzie, Chicago, Ill. ADV. PG. 277.
 Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Ⓜ STANDARD COIL PRODUCTS CO., 2329 N. Pulaski Rd., Chicago 39, Ill. ADV. PG. 233.

TUNERS—uhf Ring

Ⓜ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
 Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
 Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif.

TUNING DEVICES—Receiver Mechanical

Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Ⓜ Collins Audio Products Co., P. O. Box 368, Westfield, N. J.
 Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
 Ⓜ Delco Radio Div., General Motors Corp., Kokomo, Ind.
 Ⓜ Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
 Ⓜ General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.
 Ⓜ Grigsby-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
 Ⓜ Kupfrian Mfg. Co., 350 State St., Binghamton, N. Y.
 Ⓜ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
 Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
 Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
 Ⓜ Radio Condenser Co., Camden, N. J.
 Ⓜ Teletronics Laboratory, Inc., 352 Maple Ave., Westbury, L. I., N. Y.

TUNING DEVICES—Transmitter Mechanical

Ⓜ Audiograph Co., 1414 El Camino Real, San Carlos, Calif.
 Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
 Ⓜ Collins Radio Co., Cedar Rapids, Iowa.
 Ⓜ Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
 Ⓜ Kupfrian Mfg. Co., 350 State St., Binghamton, N. Y.
 Ⓜ Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
 Ⓜ NATIONAL CO., INC., 61 Sherman St., Malden 48, Mass. ADV. PG. 33 to 36.
 Ⓜ Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.

TUNING DEVICES—Turntable Units

Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.

TURNABLES—Recording and Transcription

Ⓜ Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio.
 Ⓜ Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.
 Ⓜ Carron Mfg. Co., 415 S. Aberdeen St., Chicago 7, Ill.
 Ⓜ CINEMA ENGINEERING CO., 1510 W. Verdugo Ave., Burbank, Calif. ADV. PG. 186.
 Ⓜ Fairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.
 Ⓜ Gates Radio Co., Quincy, Ill.
 Ⓜ GRAY RESEARCH & DEVELOPMENT CO., 16 Arbor St., Hartford 1, Conn. ADV. PG. 239.
 Ⓜ PRESTO RECORDING CORP., Paramus, N. J. ADV. PG. 94, 95.
 Ⓜ Proctor Soundex Corp., 133 N. 6th Ave., Mt. Vernon, N. Y.
 Ⓜ R K Electronic Products, 445 N. Circle Drive, Fresno 4, Calif.
 Ⓜ RADIO CORP. OF AMERICA, RCA Victor Div., General Offices, Camden, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
 Radio-Music Corp., Port Chester, N. Y.
 Ⓜ Rek-O-Kut Co., Inc., 38-01 Queens Blvd., Long Island City, N. Y.

TWEETERS

See Loudspeakers

URANIUM

Ⓜ Mallinckrodt Chemical Works, Second & Mallinckrodt Sts., St. Louis 7, Mo.

ULTRASONIC EQUIPMENT

Refer to any of the following:
 Crystals, Ultrasonic
 Gages, Ultrasonic Thickness
 Generators, Ultrasonic
 Transducers, Ultrasonic

VACUUM GAGES

See Gages, Vacuum or Pirani

VACUUM INDICATING, RECORDING AND CONTROL EQUIPMENT

Ⓜ Bowser, Inc., Refrigeration Div., Terryville, Conn.
 Ⓜ Clarke Instrument Corp., 910 King St., Silver Spring, Md.
 Ⓜ Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd. W., Rochester 3, N. Y.
 Ⓜ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis, Ind.
 Ⓜ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ✓ Foxboro Co., The, Foxboro, Mass.
- ✓ Fredericks Co., Geo. E., Bethayres, Pa.
- ✓ Hastings Instrument Co., Box 1275, Hampton, Va.
- ✓ Litton Industries, San Carlos, Calif.
- ✓ Manning, Maxwell & Moore, Inc., Stratford, Conn.
- ✓ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ✓ Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
- ✓ National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- ✓ Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- ✓ Skaneateles Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
- ✓ Stokes Machine Co., F. J., 5850 Tabor Rd., Olney P. O., Philadelphia 20, Pa.
- ✓ Vacuum Electronic Engineering Co., 316 37th St., Brooklyn 2, N. Y.
- ✓ Wallace & Tiernan Products, Inc., Belleville 9, N. J.
- ✓ WESTON ELECTRICAL INSTRUMENT CORP., 614 Felinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

VACUUM PUMPS—High

- ✓ Beach-Russ Co., 50 Church St., New York 7, N. Y.
- ✓ Central Scientific Co., 1700 Irving Park Road, Chicago 13, Ill.
- ✓ Clarendon Glass Blowing Co., 772 2nd St., Secaucus, N. J.
- ✓ Distillation Products Industries, Vacuum Equipment Div., 755 Ridge Rd. W., Rochester 3, N. Y.
- ✓ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- ✓ Eitel-McCullough Inc., San Bruno, Calif.
- ✓ Fredericks Co., Geo. E., Bethayres, Pa.
- ✓ Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- ✓ Hayco Bros., Plainfield, N. J.
- ✓ International Machine Works, 6904 Madison St., Guttenberg, N. J.
- ✓ KAHLE ENGINEERING CO., 1307 Seventh St., North Bergen, N. J. ADV. PG. 180, 181.
- ✓ Kinney Mfg. Co., 3529 Washington St., Boston, Mass.
- ✓ Lear, Inc., 110 Ionia Ave., NW, Grand Rapids 2, Mich.
- ✓ Litton Industries, San Carlos, Calif.
- ✓ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ✓ National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- ✓ Nelson Vacuum Pump Co., Geo. F., 2133 Fourth St., Berkeley 10, Calif.
- ✓ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ✓ Optical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.
- ✓ Stokes Machine Co., F. J., 5850 Tabor Rd., Olney P. O., Philadelphia 20, Pa.
- ✓ Weld Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.

Vacuum Tube Voltmeter

See **Voltmeters, Electronic**

VACUUM UNITS

- ✓ Bowser, Inc., Refrigeration Div., Terryville, Conn.
- ✓ Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.
- ✓ Clarendon Glass Blowing Co., 772 2nd St., Secaucus, N. J.
- ✓ Distillation Product Industries, Vacuum Equipment Div., 755 Ridge Rd. W., Rochester 3, N. Y.
- ✓ Leiman Brothers, 114 Christie St., Newark 5, N. J.
- ✓ National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
- ✓ Process & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.
- ✓ Skaneateles Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
- ✓ Stokes Machine Co., F. J., 5850 Tabor Rd., Olney P. O., Philadelphia 20, Pa.

VALVES—Solenoid

- ✓ Adel Precision Products Corp., 10777 Van Owen St., Burbank, Calif.
- ✓ Air Associates, Inc., Teterboro, N. J.
- ✓ Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.
- ✓ Caltron Co., 1406 S. Hobart Blvd., Los Angeles 6, Calif.
- ✓ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- ✓ Cutler-Hammer Inc., 411 N. 12th St., Milwaukee 1, Wis.
- ✓ Distillation Product Industries, Vacuum Equipment Div., 755 Ridge Rd. W., Rochester 3, N. Y.
- ✓ General Controls Co., Glendale 1, Calif.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ Gleason-Avery, Inc., Auburn, N. Y.
- ✓ Hydraulic Press Mfg. Co., Mt. Gilead, Ohio.

- ✓ Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave. S., Minneapolis, Minn.
- ✓ Progressive Welder Co., 3050 E. Outer Drive, Detroit, Mich.
- ✓ Skinner Electric Valve Div., The Skinner Chuck Co., 40 Belden Ave., Norwalk, Conn.

VARISTORS

- ✓ BRADLEY LABS., INC., 82 Meadow St., New Haven 10, Conn. ADV. PG. 152.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York 19, N. Y. ADV. PG. 286 to 290.

VARNISH CAMBRIC COATINGS

Varnish, Insulating

See **Insulating Compounds**

VIBRATION ANALYSIS EQUIPMENT

- ✓ AIRCRAFT ELECTRONICS ASSOCIATES, INC., 1031 New Britain Ave., Hartford 10, Conn. ADV. PG. 214.
- ✓ Calidyne Co., The, 751 Main St., Winchester, Mass.
- ✓ CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- ✓ Commercial Research Labs., Inc., 20 Bartlett Ave., Detroit 3, Mich.
- ✓ Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.
- ✓ Coscor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- ✓ Electro Products Labs., Inc., 549 W. Randolph St., Chicago 6, Ill.
- ✓ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- ✓ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- ✓ HEILAND RESEARCH CORP., 130 East 5th Avenue, Denver 9, Colo. ADV. PG. 242.
- ✓ INDUSTRIAL ELECTRONICS, INC., 2457 Woodward Ave., Detroit 1, Mich. ADV. PG. 255.
- ✓ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓ M B MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.
- ✓ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ✓ Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- ✓ Miller Corp., Wm., 362 W. Colorado St., Pasadena, Calif.
- ✓ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ✓ PANORAMIC RADIO PRODUCTS, INC., 10 South Second Ave., Mt. Vernon, N. Y. ADV. PG. 270.
- ✓ Scott Inc., Herman Hosmer, 385 Putnam Ave., Cambridge 39, Mass.
- ✓ SOUND APPARATUS CO., Stirling, N. J. ADV. PG. 24.
- ✓ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ✓ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

VIBRATION ANALYSIS EQUIPMENT—Electronic Balancing

- ✓ CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ Gisholt Machine Co., 1245 E. Washington Ave., Madison 3, Wis.
- ✓ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ✓ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

VIBRATION ANALYSIS EQUIPMENT—High Temperature Fatigue

- ✓ M B MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.

VIBRATION ANALYSIS EQUIPMENT—Vibration Fatigue

- ✓ All American Tool & Mfg. Co., 1014 W. Fullerton St., Chicago 14, Ill.
- ✓ Baldwin Locomotive Works, Philadelphia 42, Pa.
- ✓ Calidyne Co., The, 751 Main St., Winchester, Mass.
- ✓ CENTURY GEOPHYSICAL CORP., 1333 N. Utica, Tulsa 3, Okla. ADV. PG. 237.
- ✓ Dilks Co., The, Seymour, Conn.
- ✓ Electro Products Labs., 549 W. Randolph St., Chicago 6, Ill.

- ✓ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓ L. A. B. Corp., 31 Union Place, Summit, N. J.
- ✓ M B MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.
- ✓ Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.
- ✓ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

VIBRATORS

- ✓ Aerovox Corp., 740 Belleville Ave., New Bedford, Mass.
- ✓ AIRPAX PRODUCTS CO., 1024 Greenmount Ave., Baltimore 2, Md. ADV. PG. 275.
- ✓ AMERICAN TELEVISION & RADIO CO., 300 E. Fourth St., St. Paul 1, Minn. ADV. PG. 275.
- ✓ CORNELL-DUBILIER ELECTRIC CORP., South Plainfield, N. J. ADV. PG. 70.
- ✓ Eltron, Inc., 407 N. Jackson St., Jackson, Mich.
- ✓ James Vibrapowr Co., 3224 W. Armitage Ave., Chicago 47, Ill.
- ✓ KURMAN ELECTRIC CO., INC., 35-18 37th St., Long Island City 1, N. Y. ADV. PG. 214.
- ✓ M B MFG. CO., 1060 State St., New Haven 11, Conn. ADV. PG. 253.
- ✓ Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
- ✓ Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
- ✓ Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
- ✓ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ✓ Radiart Corp., The, 3571 W. 62nd St., Cleveland 2, Ohio.
- ✓ Servomechanisms, Inc., 142 Mineola Blvd., Mineola, N. Y.
- ✓ Stow Mfg. Co., 445 State St., Binghamton, N. Y.
- ✓ Vokar Corp., 7300 Huron River Drive, Dexter, Mich.

VISCOSIMETERS WITH ELECTRONIC RECORDERS

- ✓ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ✓ Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
- ✓ RAYTHEON MFG. CO., Power Tube Div., Waltham 54, Mass. ADV. PG. 257.

VOLTAGE SUPPLIES—Decade

- ✓ Berkshire Laboratories, P. O. Box 70, Concord, Mass.
- ✓ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ✓ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.

VOLTMETERS—Crystal

- ✓ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ✓ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓ Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.

VOLTMETERS

- ✓ Assembly Products, Inc., Chagrin Falls 6, Ohio.
- ✓ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- ✓ Beede Electrical Instrument Co., Inc., Penacook, N. H.
- ✓ Burlington Instrument Co., Burlington, Iowa.
- ✓ Coastwise Electronics Co., Inc., 130 N. Beaudry Ave., Los Angeles, Calif.
- ✓ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ✓ DEJUR-AMSCO CORP., Northern Blvd. at 45th St., Long Island City 1, N. Y. ADV. PG. 267.
- ✓ Dillon & Co., Inc., W. C., 5420 W. Harrison St., Chicago 44, Ill.
- ✓ Electric Design & Mfg. Corp., Burlington, Iowa.
- ✓ Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.
- ✓ ELECTRONIC INSTRUMENT CO., INC., 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ✓ ELECTRONIC MEASUREMENTS CO., Red Bank, N. J. ADV. PG. 139.
- ✓ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ GENERAL RADIO CO., 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ✓ Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- ✓ HEWLETT-PACKARD CO., 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ✓ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ✓ Industrial Devices, Inc., 22 State Rd., Edgewater, N. J.
- ✓ International Instruments, Inc., 331 East St., New Haven 11, Conn.

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- ⓪ **JBT INSTRUMENTS, INC.**, 441 Chapel St., New Haven 8, Conn. ADV. PG. 261.
- ⓪ **MARION ELECTRICAL INSTRUMENT CO.**, Manchester, N. H. ADV. PG. 130.
- ⓪ **Meters, Inc.**, 915 Westfield Blvd., Indianapolis 20, Ind.
- ⓪ **Metropolitan Electronics & Instruments Co.**, 106 Fifth Ave., New York 11, N. Y.
- ⓪ **Norton Electrical Instrument Co.**, 59 Hilliard St., Manchester, Conn.
- ⓪ **Oak Ridge Products Mfg. Div. of Video Television, Inc.**, 239 E. 127th St., New York 35, N. Y.
- ⓪ **Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ **Precision Electronics**, 641 Milwaukee Ave., Chicago 22, Ill.
- ⓪ **Pyramid Instrument Corp.**, 49 Howard St., New York, N. Y.
- ⓪ **Reliance Instrument Co.**, 3027 W. Van Buren St., Chicago 12, Ill.
- ⓪ **Roller-Smith, Bethlehem, Pa.**
- ⓪ **Sensitive Research Instrument Corporation**, 9 Elm Avenue, Mount Vernon, N. Y.
- ⓪ **SHURITE METERS**, 61 Hamilton St., New Haven 6, Conn. ADV. PG. 216.
- ⓪ **Simpson Electric Co.**, Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ⓪ **Sterling Mfg. Co.**, 9205 Detroit Ave., Cleveland, Ohio.
- ⓪ **SYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- ⓪ **Transvision Inc.**, 460 North Ave., New Rochelle, N. Y.
- ⓪ **Triplett Electrical Instrument Co.**, 286 Harmon Rd., Bluffton, Ohio.
- ⓪ **Welch Scientific Co.**, W. M., 1515 Sedgwick St., Chicago 10, Ill.
- ⓪ **WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Westinghouse 30, Pa. ADV. PG. 77.
- ⓪ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

VOLTMETERS—Electronic

- ⓪ **American British Technology, Inc.**, 57 Park Ave., New York 16, N. Y.
- ⓪ **Audio Instrument Co.**, 1947 Broadway, New York 23, N. Y.
- ⓪ **BALLANTINE LABORATORIES, INC.**, Boonton, N. J. ADV. PG. 96.
- ⓪ **Barber Labs.**, Alfred W., 32-44 Francis Lewis Blvd., Flushing, N. Y.
- ⓪ **BETA ELECTRIC CORP.**, 1762 Third Ave., New York 29, N. Y. ADV. PG. 171.
- ⓪ **C. G. S. LABORATORIES, INC.**, 36 Ludlow St., Stamford, Conn. ADV. PG. 244.
- ⓪ **Coastwise Electronics Co., Inc.**, 130 N. Beaudry Ave., Los Angeles, Calif.
- ⓪ **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓪ **Daven Co.**, 191 Central Ave., Newark 4, N. J.
- ⓪ **ELECTRONIC DESIGNS, INC.**, Irvington, N. Y. ADV. PG. 199.
- ⓪ **ELECTRONIC INSTRUMENT CO., INC.**, 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ⓪ **ELECTRONIC MEASUREMENTS CO.**, Red Bank, N. J. ADV. PG. 139.
- ⓪ **Feiler Engineering Co.**, 1601 S. Federal St., Chicago, 16, Ill.
- ⓪ **Fluke Engineering Co.**, John, Box 755, Springdale, Conn.
- ⓪ **FREED TRANSFORMER CO., INC.**, 1736 Weirfield Ave., Brooklyn 27, N. Y. ADV. PG. 143.
- ⓪ **Furst Electronics**, 10A S. Jefferson St., Chicago 6, Ill.
- ⓪ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓪ **GENERAL RADIO CO.**, 275 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 48, 49.
- ⓪ **HEATH CO.**, Benton Harbor, Mich. ADV. PG. 279.
- ⓪ **HEWLETT-PACKARD CO.**, 395 Page Mill Rd., Palo Alto, Calif. ADV. PG. 68, 69.
- ⓪ **HICKOK ELECTRICAL INSTRUMENT CO.**, 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ⓪ **Industrial Control Co.**, 1462 Undercliff Ave., New York 52, N. Y.
- ⓪ **INSTRUMENT ELECTRONICS**, 42-17A Douglaston Blvd., Douglaston, L. I., N. Y. ADV. PG. 260.
- ⓪ **Jackson Electrical Instrument Co.**, 16 S. Patterson Blvd., Dayton 1, Ohio.
- ⓪ **KAY ELECTRIC CO.**, 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ⓪ **KROHN-HITE INSTRUMENT CO.**, 580 Massachusetts Ave., Cambridge 39, Mass. ADV. PG. 128.
- ⓪ **McMurdo Silver Co., Inc.**, 1240 Main St., Hartford 3, Conn.
- ⓪ **Marconi Instruments, Ltd.**, 23 Beaver St., New York 4, N. Y.
- ⓪ **MEASUREMENTS CORP.**, Boonton, N. J. ADV. PG. 145.
- ⓪ **Metropolitan Electronics & Instruments Co.**, 106 Fifth Ave., New York 11, N. Y.
- ⓪ **MILLIVAC INSTRUMENTS**, Box 3027, New Haven, Conn. ADV. PG. 182.
- ⓪ **North American Philips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- ⓪ **Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ **Precision Apparatus Co., Inc.**, 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- ⓪ **Radio City Products Co., Inc.**, 152 W. 25th St., New York 1, N. Y.

- ⓪ **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓪ **Reiner Electronics Co.**, 152 W. 25th St., New York, N. Y.
- ⓪ **Roller-Smith, Bethlehem, Pa.**
- ⓪ **Sherron Electronics Co.**, 1201 Flushing Ave., Brooklyn 6, N. Y.
- ⓪ **Sierra Electronic Corp.**, San Carlos, Calif.
- ⓪ **Simpson Electric Co.**, Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ⓪ **Southwestern Industrial Electronic Co.**, 2831 Post Oak Rd., Houston 19, Texas.
- ⓪ **Supreme, Inc.**, Greenwood, Miss.
- ⓪ **SYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- ⓪ **Varo Mfg. Co., Inc.**, Box 638, Garland, Texas.
- ⓪ **Western-Electro-Acoustics Labs.**, 621 Spring St., Los Angeles 14, Calif.
- ⓪ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.
- ⓪ **Wheeler Instruments Co.**, 847 W. Harrison St., Chicago 7, Ill.

VOLTMETERS—Electrostatic

- ⓪ **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓪ **FERRANTI ELECTRIC, INC.**, 30 Rockefeller Plaza, New York 20, N. Y. ADV. PG. 81.
- ⓪ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓪ **Sensitive Research Instrument Corporation**, 9 Elm Ave., Mt. Vernon, N. Y.

VOLTAGE REGULATORS & STABILIZERS

See **Regulators, Voltage Regulators & Stabilizers**

VOLT-OHM-MILLIAMMETERS

- ⓪ **Beede Electrical Instrument Co., Inc.**, Penacook, N. H.
- ⓪ **Coastwise Electronics Co., Inc.**, 130 N. Beaudry Ave., Los Angeles, Calif.
- ⓪ **Cole Instrument Co.**, 1320 S. Grand Ave., Los Angeles 15, Calif.
- ⓪ **Douglas Radio Labs.**, 40 Wayland St., Boston 25, Mass.
- ⓪ **ELECTRONIC DESIGNS, INC.**, Irvington, N. Y. ADV. PG. 199.
- ⓪ **ELECTRONIC INSTRUMENT CO., INC.**, 276 Newport St., Brooklyn 12, N. Y. ADV. PG. 274.
- ⓪ **Feiler Engineering Co.**, 1601 S. Federal St., Chicago 16, Ill.
- ⓪ **GENERAL ELECTRIC CO.**, Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ⓪ **Harshaw Scientific Div. of The Harshaw Chemical Co.**, 1945 E. 97th St., Cleveland 6, Ohio.
- ⓪ **HEATH CO.**, Benton Harbor, Mich. ADV. PG. 279.
- ⓪ **HICKOK ELECTRICAL INSTRUMENT CO.**, 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ⓪ **Instrument Laboratories**, 315 W. Walton Place, Chicago 10, Ill.
- ⓪ **International Instruments, Inc.**, 331 East St., New Haven 11, Conn.
- ⓪ **Jackson Electrical Instrument Co.**, 16 S. Patterson Blvd., Dayton 1, Ohio.
- ⓪ **McMurdo Silver Co.**, 1240 Main St., Hartford 3, Conn.
- ⓪ **MARION ELECTRICAL INSTRUMENT CO.**, Manchester, N. H. ADV. PG. 130.
- ⓪ **Meters, Inc.**, 915 Westfield Blvd., Indianapolis 20, Ind.
- ⓪ **Metropolitan Electronics & Instruments Co.**, 106 Fifth Ave., New York 11, N. Y.
- ⓪ **MILLIVAC INSTRUMENTS**, Box 3027, New Haven, Conn. ADV. PG. 182.
- ⓪ **North American Philips Co., Inc.**, 100 E. 42nd St., New York 17, N. Y.
- ⓪ **Philco Corp.**, Tioga & C Sts., Philadelphia 34, Pa.
- ⓪ **Precision Apparatus Co., Inc.**, 92-27 Horace Harding Blvd., Elmhurst, N. Y.
- ⓪ **Precision Electronics**, 641 Milwaukee Ave., Chicago 22, Ill.
- ⓪ **Radio City Products Co., Inc.**, 152 W. 25th St., New York 1, N. Y.
- ⓪ **RADIO CORP. OF AMERICA**, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- ⓪ **Radio Design Co.**, 1353 Sterling Place, Brooklyn, N. Y.
- ⓪ **Reiner Electronics Co.**, 152 W. 25th St., New York, N. Y.
- ⓪ **Simpson Electric Co.**, Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ⓪ **Star Measurements Co.**, 442 East 166th St., New York 56, N. Y.
- ⓪ **Sterling Mfg. Co.**, 9205 Detroit Ave., Cleveland 2, Ohio.
- ⓪ **Superior Instruments Co.**, 337 Fulton St., New York 7, N. Y.
- ⓪ **Supreme, Inc.**, Greenwood, Miss.
- ⓪ **SYLVANIA ELECTRIC PRODUCTS, INC.**, Emporium, Pa. ADV. PG. 286 to 290.
- ⓪ **Triplett Electrical Instrument Co.**, 286 Harmon Rd., Bluffton, Ohio.
- ⓪ **WESTINGHOUSE ELECTRIC CORP.**, P. O. Box 868, Westinghouse 30, Pa. ADV. PG. 77.
- ⓪ **WESTON ELECTRICAL INSTRUMENT CORP.**, 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

WASHERS—Insulating

- ⓪ **AEROLITE ELECTRONIC HARDWARE CORP.**, 507 26th St., Union City, N. J. ADV. PG. 138.
- ⓪ **ATLANTIC INDIA RUBBER WORKS, INC.**, 571 W. Polk St., Chicago 7, Ill. ADV. PG. 271.
- ⓪ **Baer Co.**, N. S., 9 Montgomery St., Hillside, N. J.
- ⓪ **Beach Precision Parts Co.**, Boonton, N. J.
- ⓪ **BIWAX CORP.**, 3445 Howard St., Skokie, Ill. ADV. PG. 242.
- ⓪ **Brandywine Fibre Co.**, 15th & Poplar Sts., Wilmington, Del.
- ⓪ **Continental Diamond Fibre Co.**, 16 Chapel St., Newark 16, Del.
- ⓪ **Electronic Mechanics, Inc.**, 70 Clifton Blvd., Clifton, N. J.
- ⓪ **FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- ⓪ **Felsenthal & Sons, Inc.**, G., 4100 W. Grand Ave., Chicago 51, Ill.
- ⓪ **Franklin Fibre-Lamitex Corp.**, 12th & French Sts., Wilmington, Del.
- ⓪ **Franklin Mfg. Corp.**, A. W., 43-20 34th St., Long Island City, N. Y.
- ⓪ **GENERAL CEMENT MFG. CO.**, 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ⓪ **GENERAL CERAMICS & STEATITE CORP.**, Keasbey, N. J. ADV. PG. 219.
- ⓪ **Hallett Mfg. Co.**, 1601 Florence Ave., Inglewood, Calif.
- ⓪ **Industrial Precision Products Co.**, 315-325 N. Hoynes Ave., Chicago 12, Ill.
- ⓪ **Insulating Fabricators, Inc.**, 150 Union Ave., East Rutherford, N. J.
- ⓪ **Insulation Manufacturers Corp.**, 565 W. Washington Blvd., Chicago 6, Ill.
- ⓪ **INSULINE CORP. OF AMERICA**, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ⓪ **Isolantite Mfg. Corp.**, Stirling, N. J.
- ⓪ **Keystone Electronics Co.**, 50-52 Franklin St., New York 13, N. Y.
- ⓪ **Kirchberger & Co., Inc.**, M., 1425 37th St., Brooklyn 18, N. Y.
- ⓪ **Laconia Corp.**, 37 S. 6th St., Newark 7, N. J.
- ⓪ **LaMagna Mfg. Co., Inc.**, East Rutherford, N. J.
- ⓪ **Lamicoid Fabricators, Inc.**, 4545 W. Cortland St., Chicago 39, Illinois.
- ⓪ **Louthan Mfg. Co.**, East Liverpool, Ohio.
- ⓪ **Mica Fabricating Co.**, 53 Central Ave., Rochelle Park, N. J.
- ⓪ **MICA INSULATOR CO.**, Schenectady 1, N. Y. ADV. PG. 232.
- ⓪ **Micacraft Products Inc.**, 701 McCarter Highway, Newark 5, N. J.
- ⓪ **Moore Co.**, Howard J., 108 Park Row, New York 7, N. Y.
- ⓪ **MYCALEX CORP. OF AMERICA**, 60 Clifton Blvd., Clifton, N. J. ADV. PG. 163.
- ⓪ **Mykroy, Inc.**, Arlington Heights Airport, Arlington Heights, Ill.
- ⓪ **National Gasket & Washer Mfg. Co.**, 124 E. 25th St., New York 10, N. Y.
- ⓪ **NATIONAL VULCANIZED FIBRE CO.**, Wilmington, Del. ADV. PG. 183.
- ⓪ **Parisian Novelty Co.**, 3510 South Western Ave., Chicago 9, Ill.
- ⓪ **Penn Fibre & Specialty Co.**, 2020 E. Westmoreland St., Philadelphia 34, Pa.
- ⓪ **Plastic Accessories, Inc.**, 93 Mercer St., New York 12, N. Y.
- ⓪ **Plax Corp.**, P. O. Box 1019, Hartford, Conn.
- ⓪ **Printoid Inc.**, 95 Mercer St., New York, N. Y.
- ⓪ **Quadrif Mfg. Co.**, 213 W. Grand Ave., Chicago 11, Ill.
- ⓪ **RICHARDSON CO.**, The, 2767 Lake St., Melrose Park, Ill. ADV. PG. 144.
- ⓪ **Rogers Corp.**, Manchester, Connecticut.
- ⓪ **Schott Co.**, Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- ⓪ **Smith, Inc.**, Herman H., 405 44th St., Brooklyn 20, N. Y.
- ⓪ **Spaulding Fibre Co., Inc.**, 310 Wheeler St., Tonawanda, N. Y.
- ⓪ **Steward Mfg. Co.**, D. M., Chattanooga, Tenn.
- ⓪ **Stronghold Screw Products Inc.**, 216-222 W. Hubbard St., Chicago 10, Ill.
- ⓪ **STUPAKOFF CERAMIC & MFG. CO.**, Latrobe, Pa. ADV. PG. 147.
- ⓪ **Taylor Fibre Co.**, Norristown, Pa.
- ⓪ **Thor Ceramics Inc.**, 225 Belleville Ave., Bloomfield, N. J.
- ⓪ **Waterbury Companies, Inc.**, Waterbury 90, Conn.
- ⓪ **Wilmington Fibre Specialty Co.**, P. O. Drawer 1028, Wilmington 99, Del.
- ⓪ **Wrought Washer Mfg. Co.**, 2264 S. Bay St., Milwaukee 7, Wis.

WASHERS—Lock

- ⓪ **Acklin Stamping Co.**, 1923 Nebraska Ave., Toledo 7, Ohio.
- ⓪ **Allmetal Screw Products Co., Inc.**, 33 Greene St., New York 13, N. Y.
- ⓪ **American Nut & Bolt Fastener Co.**, 2045 Doerr St., Pittsburgh 12, Pa.
- ⓪ **Autoscrew Co.**, 216-222 W. 18th St., New York, N. Y.
- ⓪ **Chase Brass & Copper Co., Inc.**, Waterbury 91, Conn.
- ⓪ **FEDERAL SCREW PRODUCTS INC.**, 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.

V indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- ✓ Garrett Co., Inc., G. K., D & Tioga Sts., Phila. 34, Pa.
- ✓ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ✓ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- ✓ Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- ✓ National Lock Washer Co., 40 Hermon St., Newark 5, N. J.
- ✓ Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
- ✓ Penn-Union Electric Corp., 315 State Street, Erie, Pa.
- ✓ Philadelphia Steel & Wire Corp., Penn St. & Belfield Avenue, Philadelphia, Pa.
- ✓ Positive Lock Washer Co., 181 Miller St., Newark, N. J.
- ✓ Ryerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.
- ✓ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- ✓ Shakeproof, Inc., Div. of Illinois Tool Wks., 2501 N. Keeler Ave., Chicago 39, Ill.
- ✓ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- ✓ Standard Locknut & Lockwasher, Inc., 510 N. Capitol Ave., Indianapolis, Ind.
- ✓ Stronghold Screw Products, Inc., 216-222 West Hubbard St., Chicago 10, Ill.
- ✓ United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago 8, Ill.
- ✓ Waldes Kohinoor, Inc., 47-16 Austel Place, Long Island City 1, N. Y.
- ✓ Wrought Washer Mfg. Co., 2264 S. Bay St., Milwaukee 7, Wis.

WASHERS—Metal

- ✓ ABROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- ✓ Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
- ✓ American Nut & Bolt Fastener Co., 2045 Doerr St., Pittsburgh 12, Pa.
- ✓ ART-LLOYD METAL PRODUCTS CORP., 2973 Cropsey Ave., Brooklyn 14, N. Y. ADV. PG. 272.
- ✓ Atlas Tack Corp., Pleasant St., Fairhaven, Mass.
- ✓ Autoscrew Co., 216-222 W. 18th St., New York, N. Y.
- ✓ Bair Co., N. S., 9 Montgomery St., Hillside, N. J.
- ✓ Bound Brook Oil-Less Bearing Co., Bound Brook, N. J.
- ✓ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- ✓ Citation Products Co., 233 E. 146th St., New York 51, N. Y.
- ✓ Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.
- ✓ FEDERAL SCREW PRODUCTS INC., 224 W. Huron St., Chicago 10, Ill. ADV. PG. 271.
- ✓ Fel Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.
- ✓ Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City, N. Y.
- ✓ Garrett Co., Inc., G. K., D & Tioga Sts., Phila. 34, Pa.
- ✓ GENERAL CEMENT MFG. CO., 919 Taylor Ave., Rockford, Ill. ADV. PG. 273.
- ✓ Greene Mfg. Corp., G. G., Warren, Pa.
- ✓ Harper Co., H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- ✓ HEYMAN MFG. CO., 300 Michigan Ave., Kenilworth, N. J. ADV. PG. 26.
- ✓ Hubbard Spring Co., M. D., Central Ave., Pontiac, Mich.
- ✓ Industrial Precision Products Co., 315-325 N. Hoyne Ave., Chicago 12, Ill.
- ✓ INSTALINE CORP. OF AMERICA, 36-02 35th Ave., Long Island City, N. Y. ADV. PG. 246, 247.
- ✓ International Powder Metallurgy Co., 439 W. Main St., Ridgway, Pa.
- ✓ La Magna Mfg. Co., Inc., East Rutherford, N. J.
- ✓ Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
- ✓ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- ✓ National Gasket & Washer Mfg. Co., 124 E. 25th St., New York 10, N. Y.
- ✓ Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Phila. 34, Pa.
- ✓ Pheon Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
- ✓ Quadrif Mfg. Co., 213 W. Grand Ave., Chicago 11, Ill.
- ✓ Ryerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.
- ✓ Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.
- ✓ Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
- ✓ Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
- ✓ Stanley Works, The, New Britain, Conn.
- ✓ Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
- ✓ Stronghold Screw Products, Inc., 216-222 West Hubbard St., Chicago 10, Ill.
- ✓ United Screw & Bolt Co., 2513 W. Cullerton St., Chicago 8, Ill.
- ✓ Whitehead Stamping Co., 1691 W. Lafayette Blvd., Detroit 16, Mich.
- ✓ Wrought Washer Mfg. Co., 2264 S. Bay St., Milwaukee 7, Wis.
- ✓ York Materials Co., Inc., P. O. Box 510, Jamaica, N. Y.

WATTMETERS

- ✓ Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
- ✓ BIRD ELECTRONIC CORP., 1800 E. 38th St., Cleveland 14, Ohio. ADV. PG. 184, 185.
- ✓ Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.
- ✓ Esterline-Angus Co., Inc., P. O. Box 596, Indianapolis 6, Ind.
- ✓ Fluke Engineering Co., John, Box 755, Springdale, Conn.
- ✓ GENERAL ELECTRIC CO., Apparatus Dept., Schenectady 5, N. Y. ADV. PG. 5 to 18.
- ✓ Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- ✓ HICKOK ELECTRICAL INSTRUMENT CO., 10514 Dupont Ave., Cleveland, Ohio. ADV. PG. 215.
- ✓ JONES ELECTRONICS CO., M. C., Bristol, Conn. ADV. PG. 138.
- ✓ Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
- ✓ Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
- ✓ Norton Electrical Instrument Co., 59 Hilliard St., Manchester, Conn.
- ✓ RAWSON ELECTRICAL INSTRUMENT CO., 111 Potter St., Cambridge 42, Mass. ADV. PG. 156.
- ✓ Reliance Instrument Co., 3027 W. Van Buren St., Chicago 12, Ill.
- ✓ Sensitive Research Instrument Corporation, 9 Elm Ave., Mt. Vernon, N. Y.
- ✓ Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
- ✓ SPERRY GYROSCOPE CO., Div. of The Sperry Corp., Great Neck, N. Y. ADV. PG. 85, 86.
- ✓ Triplett Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.
- ✓ Welch Scientific Co., W. M., 1515 Sedgwick St., Chicago 10, Ill.
- ✓ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.
- ✓ WESTON ELECTRICAL INSTRUMENT CORP., 614 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 108.

WAVEGUIDES—Combination Rigid & Flexible

- ✓ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ✓ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ✓ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓ Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- ✓ Microwave Equipment Co., Inc., North Caldwell, N. J.
- ✓ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- ✓ Product Development Co., Inc., Arlington, N. J.
- ✓ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ✓ Schutter, Carl W., Rockville Centre, N. Y.
- ✓ Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ✓ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ✓ Technicraft Laboratories, Inc., Thomaston-Waterbury Rd., Thomaston, Conn.
- ✓ Terpening Co., L. H., 16 W. 61st St., New York, N. Y.

WAVEGUIDES—Flexible

- ✓ AIRTRON, INC., 101 E. Elizabeth Ave., Linden, N. J. ADV. PG. 46.
- ✓ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ✓ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ✓ Product Development Co., Inc., Arlington, N. J.
- ✓ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ✓ Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.
- ✓ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ✓ Technicraft Laboratories, Inc., Thomaston-Waterbury Rd., Thomaston, Conn.
- ✓ Terpening Co., L. H., 16 W. 61st St., New York, N. Y.
- ✓ TITFLEX, INC., 500 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 148.

WAVEGUIDES—Rigid

- ✓ AIRTRON, INC., 101 E. Elizabeth Ave., Linden, N. J. ADV. PG. 46.
- ✓ Bunnell & Co., J. H., 81 Prospect St., Brooklyn, N. Y.
- ✓ Crystal Research Labs., Inc., 29 Allyn St., Hartford, Conn.
- ✓ KAY ELECTRIC CO., 14 Maple Ave., Pine Brook, N. J. ADV. PG. 193.
- ✓ Kent Co., F. C., 64-72 Howard St., Irvington, N. J.
- ✓ Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
- ✓ MAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
- ✓ Microwave Equipment Co., Inc., North Caldwell, N. J.
- ✓ Product Development Co., Inc., Arlington, N. J.
- ✓ Schutter, Carl W., Rockville Centre, N. Y.
- ✓ Selectar Industries, Inc., 401 E. 138th St., New York 54, N. Y.

- ✓ Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
- ✓ Technicraft Laboratories, Inc., Thomaston-Waterbury Rd., Thomaston, Conn.
- ✓ Terpening Co., L. H., 16 W. 61st St., New York, N. Y.
- ✓ TITFLEX, INC., 500 Frelinghuysen Ave., Newark 5, N. J. ADV. PG. 148.
- ✓ Varian Associates, 99 Washington St., San Carlos, Calif.

WAX IMPREGNATING

- ✓ Glyco Products Co., Inc., 26 Court St., Brooklyn, N. Y.
- ✓ Halowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- ✓ Stevenson Bro. & Co., 110 Race St., Philadelphia 6, Pa.
- ✓ ZOPHAR MILLS, INC., 112-130 26th St., Brooklyn 32, N. Y. ADV. PG. 192.

WAXES

See Insulating Compounds

WEDGES—Wood Slot

- ✓ MITCHELL-RAND INSULATION CO., INC., 51 Murray St., New York 7, N. Y. ADV. PG. 92.

WELDERS—Electronic Controlled

- ✓ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- ✓ Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
- ✓ KAHLE ENGINEERING CO., 1307 7th St., North Bergen, N. J. ADV. PG. 180, 181.
- ✓ Progressive Welder Co., 3050 E. Outer Dr., Detroit, Mich.
- ✓ RAYTHEON MFG. CO., Equipment Sales Div., Waltham 54, Mass. ADV. PG. 257.
- ✓ Sciaky Bros., Inc., 4915 W. 67th St., Chicago 38, Ill.
- ✓ Vangtronic Corp., The, 237 John St., Bridgeport 3, Conn.

WINDING MACHINES, COIL

See Coil Winding Machines

WIRE Aluminum

- ✓ Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
- ✓ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ✓ Flexo Wire Co., Inc., 70 W. First St., Oswego, N. Y.
- ✓ General Cable Corp., 420 Lexington Ave., New York 20, N. Y.
- ✓ House of Television Inc., 40 W. 4th St., New York 12, N. Y.
- ✓ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- ✓ House of Television Inc., 40 W. 4th St., New York 12, N. Y.
- ✓ Kaiser Aluminum & Chemical Sales, Inc., 1924 Broadway, Oakland 12, Calif.
- ✓ Little Falls Alloys, Inc., 190 Caldwell Ave., Paterson 1, N. J.
- ✓ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- ✓ Reynolds Metals Co., Market Research Dept., 19 E. 47th St., New York 17, N. Y.
- ✓ Uniform Tubes, Shurs Lane & Larviston St., Roxborough, Philadelphia, Pa.

WIRE—Annunciator

- ✓ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- ✓ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- ✓ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- ✓ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- ✓ Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- ✓ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- ✓ Connecticut Telephone & Electric Div., Great American Industries, Inc., 70 Britannia St., Meriden, Conn.
- ✓ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- ✓ CORNISH WIRE CO., 15 Park Row, N. York 7, N. Y. ADV. PG. 140.
- ✓ Diamond Wire & Cable Co., Sycamore, Ill.
- ✓ Federal Wire & Cable Corp., Haverstraw, N. Y.
- ✓ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- ✓ Goldmark Wire Co., James, The, 75 Murray St., New York 7, N. Y.
- ✓ Plaistoid Corp., 10 Mill Rd., Hamburg, N. J.
- ✓ Roebbling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- ✓ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

WIRE—Antenna

- Ⓢ AEROLITE ELECTRONIC HARDWARE CORP., 507 26th St., Union City, N. J. ADV. PG. 138.
- Ⓢ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓢ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓢ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓢ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓢ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓢ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Brach Mfg. Co., 200 Central Ave., Newark 4, N. J. 121.
- Ⓢ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓢ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ Copperweld Steel Co., Glassport, Pa.
- Ⓢ CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Ⓢ Cossar (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓢ Diamond Wire & Cable Co., Sycamore, Ill.
- Ⓢ Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
- Ⓢ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓢ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓢ Federal Wire & Cable Corp., Haverstraw, N. Y.
- Ⓢ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓢ Flexo Wire Co., Inc., 70 W. First St., Oswego, N. Y.
- Ⓢ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓢ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Ⓢ J F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓢ Johnson Co., E. F., Waseca, Minn.
- Ⓢ PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Ⓢ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓢ Plastic Wire & Cable Corp., Jewett City, Conn.
- Ⓢ Roebing's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓢ TECHNICAL APPLIANCE CORP., Sherbourne, N. Y. ADV. PG. 201.
- Ⓢ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

WIRE—Asbestos Insulated

- Ⓢ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓢ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓢ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Ⓢ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓢ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓢ Collyer Insulated Wire Co., 249 Roosevelt Ave., Pawtucket, R. I.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ Cossar (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓢ Diamond Wire & Cable Co., Sycamore, Ill.
- Ⓢ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓢ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport, Conn. ADV. PG. 5 to 18.
- Ⓢ Okonite Co., Canal St., Passaic, N. J.
- Ⓢ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓢ Roebing's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓢ Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Ⓢ ROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓢ Western Insulated Wire Co., 2421 E. 30th St., Los Angeles, Calif.

WIRE—Ceramic Insulated

- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ Sprague Electric Co., North Adams, Mass.

WIRE—Copper

- Ⓢ Acme Wire Co., New Haven 14, Conn.
- Ⓢ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓢ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.

- Ⓢ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓢ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓢ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Ⓢ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓢ Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Ⓢ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓢ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ Copperweld Steel Co., Glassport, Pa.
- Ⓢ CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Ⓢ Diamond Wire & Cable Co., Sycamore, Ill.
- Ⓢ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓢ Flexo Wire Co., 70 W. First St., Oswego, N. Y.
- Ⓢ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Goldmark Wire Co., James, 75 Murray St., New York 7, N. Y.
- Ⓢ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Ⓢ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓢ Nonotuck Mfg. Co., Holyoke, Mass.
- Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓢ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓢ Product Development Co., Inc., Arlington, N. J.
- Ⓢ Roebing's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓢ ROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓢ Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
- Sun Copper & Wire Co., 132 Beckwith Ave., Paterson, N. J.
- Ⓢ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓢ TRUSCON STEEL CO., Youngstown, Ohio. ADV. PG. 173.
- Ⓢ Whitaker Cable Corp., Kansas City 16, Mo.

WIRE—Copper, Insulated

- Ⓢ Acme Wire Co., New Haven 14, Conn.
- Ⓢ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓢ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓢ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓢ AMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
- Ⓢ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓢ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓢ Ansonia Electrical Co., 63 Main St., Ansonia, Conn.
- Ⓢ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓢ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓢ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓢ Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Ⓢ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓢ Collyer Insulated Wire Co., 249 Roosevelt Ave., Pawtucket, R. I.
- Ⓢ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Ⓢ Diamond Wire & Cable Co., Sycamore, Ill.
- Ⓢ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓢ ELECTRO-WIRE SERVICE, 5 Beekman St., New York 7, N. Y. ADV. PG. 269.
- Ⓢ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓢ Federal Wire & Cable Corp., Haverstraw, N. Y.
- Ⓢ FLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
- Ⓢ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓢ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport, Conn. ADV. PG. 5 to 18.
- Ⓢ General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
- Goldmark Wire Co., James, 75 Murray St., New York 7, N. Y.
- Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Ⓢ Hazard Insulated Wire Works Div., The, Okonite Co., Wilkes-Barre, Pa.
- Ⓢ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.

- Ⓢ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓢ LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓢ New England Electrical Works, Inc., Lisbon, N. H.
- Ⓢ Okonite Co., Canal St., Passaic, N. J.
- Ⓢ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓢ Plastic Wire & Cable Corp., Jewett City, Conn.
- Ⓢ Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Ⓢ Rea Magnetic Wire Co., E. Pontiac St., Fort Wayne, Ind.
- Ⓢ Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Ⓢ Roebing's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓢ ROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓢ Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
- Slepian Co., Arthur, Bridgeport, Conn.
- Ⓢ Standard Telephones & Cables, Ltd., Connaught House, Aldwych, London, W. C. 2, England.
- Sun Copper & Wire Co., 132 Beckwith Ave., Paterson, N. J.
- Ⓢ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
- Ⓢ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
- Ⓢ Western Insulated Wire Co., 2421 E. 30th St., Los Angeles, Calif.
- Ⓢ Whitaker Cable Corp., Kansas City 16, Mo.
- Ⓢ Whitney Blake Co., New Haven, Conn.

WIRE—Cut and Stripped

- Ⓢ Cycle Electronic Laboratories, 14 Northfield Ave., West Orange, N. J.
- Ⓢ ELECTRO-WIRE SERVICE, 5 Beekman St., New York 7, N. Y. ADV. PG. 269.
- Ⓢ Electroloid Co., 145-03 Jamaica Ave., Jamaica, L. I., N. Y.
- Ⓢ Sheroid Specialty Products, 68 E. 131st St., New York, N. Y.
- Ⓢ Smith Mfg. Co., Nathan R., 105 Pasadena Ave., S. Pasadena, Calif.

WIRE—Enameled

- Ⓢ Acme Wire Co., New Haven 14, Conn.
- Ⓢ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓢ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓢ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓢ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓢ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓢ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓢ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓢ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓢ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Goldmark Wire Co., James, 75 Murray St., New York 7, N. Y.
- Ⓢ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓢ Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
- Ⓢ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓢ Rea Magnet Wire Co., E. Pontiac St., Fort Wayne, Ind.
- Ⓢ Roebing's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Slepian Co., Arthur, Bridgeport, Conn.
- Sun Copper & Wire Co., 132 Beckwith Ave., Paterson, N. J.
- Ⓢ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

WIRE—Fine Wire Specialties

- Ⓢ Acme Wire Co., New Haven 14, Conn.
- Ⓢ Alloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
- Ⓢ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓢ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓢ ART WIRE & STAMPING CO., 227 High St., Newark 2, N. J. ADV. PG. 198.
- Ⓢ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓢ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓢ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.

Ⓥ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓥ DRIVER CO., WILBUR B., 150 Riverside Ave., Newark 4, N. J. ADV. PG. 123.
- Ⓥ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓥ Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
- Ⓥ GENERAL PLATE DIVISION, METALS & CONTROLS CORP., Attleboro, Mass. ADV. PG. 245.
- Goldmark Wire Co., James, 75 Murray St., New York 7, N. Y.
- Ⓥ Grammes & Sons, Inc., L. F., 389 Union St., Allentown 2, Pa.
- Ⓥ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Ⓥ Little Falls Alloys, Inc., 190 Caldwell Ave., Paterson 1, N. J.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓥ New England Electrical Works Inc., Lisbon, N. H.
- Ⓥ NEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Secor Metals Corp., 228 E. 45th St., New York 17, N. Y.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 or 290.
- Ⓥ Wickwire Spencer Steel Div., The Colorado Fuel and Iron Corp., The, 500 Fifth Avenue, New York 18, N. Y.
- Ⓥ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

WIRE—Glass Insulated

- Ⓥ Acme Wire Co., New Haven 14, Conn.
- Ⓥ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓥ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓥ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓥ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓥ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓥ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓥ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓥ Carol Cable Co., 190 Middle St., Pawtucket, R. I.
- Ⓥ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓥ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓥ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓥ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓥ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Ⓥ DRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
- Ⓥ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓥ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓥ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport, Conn. ADV. PG. 5 to 18.
- Ⓥ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ LENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
- Ⓥ Okonite Co., Canal St., Passaic, N. J.
- Ⓥ PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Ⓥ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Ⓥ Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Ⓥ Product Development Co., Inc., Arlington, N. J.
- Ⓥ Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Ⓥ Roebling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓥ RÔME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓥ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Ⓥ VARFLEX CORP., 308 N. Jay St., Rome, N. Y. ADV. PG. 259.

WIRE—Guy

- Ⓥ Alpha Wire Corp., 50 Howard St., New York 13, N. Y.
- Ⓥ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓥ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓥ Brach Mfg. Co., 200 Central Ave., Newark 4, N. J.
- Ⓥ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓥ Copperweld Steel Co., Glassport, Pa.

- Ⓥ CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Ⓥ House of Television, 40 W. 4th St., New York 12, N. Y.
- Ⓥ JFD MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓥ Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
- Ⓥ Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
- Ⓥ Roebling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓥ TECHNICAL APPLIANCE CORP., Sherburne, N. Y. ADV. PG. 201.
- Ⓥ Wickwire Spencer Steel Div., The Colorado Fuel and Iron Corp., The, 500 Fifth Avenue, New York 18, N. Y.

WIRE—Hookup

- Ⓥ ALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
- Ⓥ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓥ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓥ AMERICAN PHENOLIC CORPORATION, 183 S. 54th Ave., Chicago 54, Ill. ADV. PG. 191.
- Ⓥ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓥ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓥ Ansonia Electrical Co., 63 Main St., Ansonia, Conn.
- Ⓥ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓥ BOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
- Ⓥ BRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
- Ⓥ Chester Cable Corp., Chester, N. Y.
- Ⓥ Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
- Ⓥ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓥ CORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
- Ⓥ Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
- Ⓥ Diamond Wire & Cable Co., Sycamore, Ill.
- Ⓥ Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
- Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.
- Ⓥ ELECTRO-WIRE SERVICE, 5 Beekman St., New York 7, N. Y. ADV. PG. 269.
- Ⓥ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓥ FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
- Ⓥ Federal Wire & Cable Corp., Haverstraw, N. Y.
- Ⓥ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓥ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn. ADV. PG. 5 to 18.
- Ⓥ JFD MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
- Ⓥ LENZ ELECTRIC MFG. CO., 1751 Northwestern Ave., Chicago 47, Ill. ADV. PG. 122.
- Ⓥ PHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
- Ⓥ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Philadelphia Insulated Wire Co., 220 N. 3rd St., Philadelphia, Pa.
- Ⓥ Plastic Wire & Cable Corp., Jewett City, Conn.
- Ⓥ Plastoid Corp., 10 Mill Rd., Hamburg, N. J.
- Ⓥ Product Development Co., Inc., Arlington, N. J.
- Ⓥ Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Ⓥ RÔME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Ⓥ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
- Tensolite Corp., 7 Hudson St., N. Tarrytown, N. Y.
- Ⓥ U. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.

WIRE—Litz

- Ⓥ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓥ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Ⓥ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓥ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Guthman, Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Ⓥ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
- Ⓥ New England Electrical Works, Inc., Lisbon, N. H.
- Philadelphia Insulated Wire Co., 220 N. 3rd St., Philadelphia, Pa.
- Slepien Co., Arthur, Bridgeport, Conn.
- Ⓥ Stevens Wire Insulating Co., 6022 N. Rogers Ave., Pulaski & Peterson, Chicago 30, Ill.
- Ⓥ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

WIRE—Magnet

- Ⓥ Acme Wire Co., New Haven 14, Conn.
- Ⓥ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓥ American Steel & Wire Co., U. S. Steel Corp. Subs., Rockefeller Bldg., Cleveland 13, Ohio.
- Ⓥ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Ⓥ Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓥ Chase Brass & Copper Co., Inc., Waterbury 91, Conn.
- Ⓥ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓥ Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
- Ⓥ General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
- Ⓥ GENERAL ELECTRIC CO., Construction Materials Dept., 1285 Boston Ave., Bridgeport, Conn. ADV. PG. 5 to 18.
- Goldmark Wire Co., James, 75 Murray St., New York 7, N. Y.
- Guthman, Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Ⓥ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Inductive Equipment Co., Gettysburg, Pa.
- Ⓥ New England Electrical Works, Inc., Lisbon, N. H.
- Ⓥ Phelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
- Philadelphia Insulated Wire Co., 220 N. 3rd St., Philadelphia, Pa.
- Ⓥ Rea Magnet Wire Co., E. Pontiac St., Fort Wayne, Ind.
- Ⓥ Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.
- Ⓥ Roebling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
- Ⓥ RÔME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
- Slepien Co., Arthur, Bridgeport, Conn.
- Ⓥ Sprague Electric Co., North Adams, Mass.
- Ⓥ Sun Copper & Wire Co., 132 Beckwith Ave., Paterson, N. J.
- Ⓥ Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.

WIRE—Molybdenum

- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓥ Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.
- Ⓥ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓥ Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.

WIRE—Nickel Clad Copper

- Ⓥ Alloy Metal Wire Co., 13th & Penna Ave., Prospect Park, Pa.
- Ⓥ Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
- Ⓥ Flexo Wire Co., Inc., 70 W. First St., Oswego, N. Y.
- Ⓥ GENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
- Ⓥ Little Falls Alloys, Inc., 190 Caldwell Ave., Paterson 1, N. J.
- Ⓥ SYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
- Ⓥ Wilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

WIRE—Phosphor Bronze

- Ⓥ Alpha Wire Corp., 50 Howard St., New York, N. Y.
- Ⓥ American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
- Ⓥ Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
- Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
- Ⓥ Chase Brass and Copper Co., Inc., Waterbury 91, Conn.
- Ⓥ COHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
- Ⓥ Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
- Ⓥ Flexo Wire Co., Inc., 70 W. First St., Oswego, N. Y.
- Ⓥ HUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
- Ⓥ Little Falls Alloys, Inc., 190 Caldwell Ave., Paterson 1, N. J.
- Ⓥ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓥ Phosphor Bronze Corp., 20 Franklin St., Seymour, Conn.
- Ⓥ Riverside Metal Co., Riverside, N. J.
- Ⓥ Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.
- Ⓥ SURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. 229.

Ⓜ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

WIRE—Plastic Insulated

- ⓂALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 ⓂAlpha Wire Corp., 50 Howard St., New York, N. Y.
 ⓂAmerican Electric Cable Co., 181 Appleton St., Holyoke, Mass.
 ⓂAnaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
 ⓂAnchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
 ⓂAnsonia Electrical Co., 63 Main St., Ansonia, Conn.
 ⓂBOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
 ⓂBRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
 ⓂChester Cable Corp., Chester, N. Y.
 ⓂCollyer Insulated Wire Co., 249 Roosevelt Ave., Pawtucket, R. I.
 Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
 ⓂConsolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
 ⓂCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 ⓂDiamond Wire & Cable Co., Sycamore, Ill.
 ⓂDielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
 ⓂELECTRO-WIRE SERVICE, 5 Beekman St., New York 7, N. Y. ADV. PG. 269.
 ⓂEssex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
 ⓂFEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 ⓂFederal Wire & Cable Corp., Haverstraw, N. Y.
 ⓂFLADER, INC., FREDERIC, North Tonawanda, N. Y. ADV. PG. 240.
 ⓂGeneral Cable Corp., 420 Lexington Ave., New York 17, N. Y.
 ⓂGeneral Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
 ⓂHazard Insulated Wire Works Div., The Okonite Co., Wilkes-Barre, Pa.
 ⓂHUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
 ⓂKaiser Aluminum & Chemical Sales, Inc., 1924 Broadway, Oakland 12, Calif.
 ⓂLENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
 ⓂOkonite Co., Canal St., Passaic, N. J.
 ⓂPHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
 ⓂPhelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
 Philadelphia Insulated Wire Co., 220 N. 3rd St., Philadelphia, Pa.
 ⓂPlastic Wire & Cable Corp., Jewett City, Conn.
 ⓂPlastoid Corp., 10 Mill Rd., Hamburg, N. J.
 ⓂRoebling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.
 ⓂROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
 ⓂSimplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
 ⓂStandard Telephones & Cables, Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Sun Copper & Wire Co., 132 Beckwith Ave., Paterson, N. J.
 ⓂSURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
 Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
 ⓂU. S. Rubber Co., 1230 Avenue of the Americas, New York 20, N. Y.
 ⓂWhitney Blake Co., New Haven, Conn.

WIRE—Platinum

- ⓂAMERICAN PLATINUM WORKS, N. J. R. R. Ave. at Oliver St., Newark 5, N. J. ADV. PG. 265.
 ⓂBaker & Co., Inc., 113 Astor St., Newark 5, N. J.
 ⓂBishop & Co., J., Platinum Works, Malvern, Pa.
 ⓂCOHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
 ⓂEastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.
 ⓂGENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
 Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
 ⓂNEY CO., J. M., 179 Elm St., Hartford, Conn. ADV. PG. 142.
 Seccon Metals Corp., 228 E. 45th St., New York 17, N. Y.
 ⓂWildberg Bros., Smelting & Refining Co., 742 Market St., San Francisco 2, Calif.
 ⓂWilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

WIRE—Resistance and Filament

- ⓂALDEN PRODUCTS CO., 117 No. Main St., Brockton 64, Mass. ADV. PG. 235.
 ⓂAlloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
 ⓂAlpha Wire Corp., 50 Howard St., New York, N. Y.
 ⓂCOHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
 ⓂDRIVER CO., WILBUR B., 150 Riverside Ave., Newark, 4, N. J. ADV. PG. 123.

- ⓂDRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
 Goldmark Wire Co., James, 75 Murray St., New York 7, N. Y.
 ⓂJELLIFF MFG. CORP., C. O., 200 Pequot Ave., Southport, Conn. ADV. PG. 46.
 ⓂLewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
 ⓂNorth American Philips Co., 100 E. 42nd St., New York 17, N. Y.
 Precision Resistor Co., 334 Badger Ave., Newark 8, N. J.
 ⓂSYLVANIA ELECTRIC PRODUCTS, INC., 500 5th Ave., New York 18, N. Y. ADV. PG. 286 to 290.

WIRE—Shielded

- ⓂALDEN PRODUCTS CO., 117 N. Main St., Brockton 64, Mass. ADV. PG. 235.
 ⓂAlpha Wire Corp., 50 Howard St., New York, N. Y.
 ⓂAmerican Electric Cable Co., 181 Appleton St., Holyoke, Mass.
 ⓂAMERICAN PHENOLIC CORPORATION, 1830 S. 54th Ave., Chicago 50, Ill. ADV. PG. 191.
 ⓂAnaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
 ⓂAnsonia Electrical Co., 63 Main St., Ansonia, Conn.
 Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.
 ⓂBelden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
 Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.
 Bishop & Co., J., Platinum Works, Malvern, Pa.
 ⓂBOSTON INSULATED WIRE & CABLE CO., 63 Bay St., Boston 25, Mass. ADV. PG. 157.
 ⓂBRAND & CO., WM., Willimantic, Conn. ADV. PG. 120, 121.
 ⓂCarol Cable Co., 190 Middle St., Pawtucket, R. I.
 ⓂChase Brass & Copper Co., Inc., Waterbury 91, Conn.
 ⓂChester Cable Corp., Chester, N. Y.
 ⓂCollyer Insulated Wire Co., 249 Roosevelt Ave., Pawtucket, R. I.
 ⓂColumbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.
 ⓂConsolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
 ⓂCORNISH WIRE CO., 15 Park Row, New York 7, N. Y. ADV. PG. 140.
 ⓂCossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.
 ⓂDiamond Wire & Cable Co., Sycamore, Ill.
 ⓂDielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.
 ⓂElliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.
 ⓂEssex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
 ⓂFEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Rd., Clifton, N. J. ADV. PG. 23 to 25.
 ⓂFederal Wire & Cable Corp., Haverstraw, N. Y.
 ⓂGeneral Cable Corp., 420 Lexington Ave., New York 17, N. Y.
 ⓂGeneral Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.
 ⓂHallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
 ⓂJ F D MFG. CO., 6101-23 Sixteenth Ave., Brooklyn, N. Y. ADV. PG. 254, 264.
 ⓂKupfrian Mfg. Co., 350 State St., Binghamton, N. Y.
 ⓂLENZ ELECTRIC MFG. CO., 1751 North Western Ave., Chicago 47, Ill. ADV. PG. 122.
 ⓂLewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
 ⓂOkonite Co., Canal St., Passaic, N. J.
 ⓂPHALO PLASTICS CORP., 25 Foster St., Worcester 8, Mass. ADV. PG. 212.
 ⓂPhelps Dodge Copper Products Corp., 40 Wall St., New York 5, N. Y.
 Philadelphia Insulated Wire Co., 220 N. 3rd St., Philadelphia, Pa.
 ⓂPlastic Wire & Cable Corp., Jewett City, Conn.
 ⓂPlastoid Corp., 10 Mill Rd., Hamburg, N. J.
 ⓂPrecision Tube Co., Inc., 3828 Terrace St., Philadelphia 28, Pa.
 ⓂROME CABLE CORP., 330 Ridge St., Rome, N. Y. ADV. PG. 131.
 ⓂSimplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
 ⓂStandard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 ⓂSURPRENANT MFG. CO., 199 Washington St., Boston 10, Mass. ADV. PG. 229.
 Tensolite Corp., The, 7 Hudson St., N. Tarrytown, N. Y.
 ⓂUniform Tubes, Shurs Lane and Lauriston St., Roxborough, Philadelphia, Pa.
 ⓂWestern Insulated Wire Co., 2421 E. 30th St., Los Angeles, Calif.
 ⓂWhitney Blake Co., New Haven, Conn.

WIRE—Silver Plated

- ⓂAmerican Electric Cable Co., 181 Appleton St., Holyoke, Mass.
 ⓂCOHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
 ⓂConsolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Ill.
 ⓂEastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.

- ⓂGENERAL PLATE DIVISION, Metals & Controls Corp., Attleboro, Mass. ADV. PG. 245.
 ⓂHUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
 ⓂLittle Falls Alloys, Inc., 190 Caldwell Ave., Paterson 1, N. J.
 ⓂMAKEPEACE CO., D. E., Attleboro, Mass. ADV. PG. 97.
 ⓂNorth American Philips Co., 100 E. 42nd St., New York 17, N. Y.
 ⓂSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
 ⓂWilson Co., H. A., The, 105 Chestnut St., Newark 5, N. J.

WIRE—Stainless Steel

- ⓂAllegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
 ⓂAlloy Metal Wire Co., 13th and Penna. Ave., Prospect Park, Pa.
 ⓂAmerican Steel & Wire Co., U. S. Steel Corp., Subs., Rockefeller Bldg., Cleveland 13, Ohio.
 ⓂCarpenter Steel Co., The, 142 West Bern St., Reading, Pa.
 ⓂCOHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
 ⓂCRUCIBLE STEEL CO. OF AMERICA, 405 Lexington Ave., New York 17, N. Y. ADV. PG. 179.
 ⓂDRIVER CO., WILBUR B., 150 Riverside Ave., Newark, N. J. ADV. PG. 123.
 ⓂDRIVER-HARRIS CO., 201 Middlesex St., Harrison, N. J. ADV. PG. 117.
 ⓂHUDSON WIRE CO., Winsted Div., Winsted, Conn. ADV. PG. 168.
 ⓂIndiana Steel & Wire Co., 700 Council St., Muncie, Ind.
 ⓂLittle Falls Alloys, Inc., 190 Caldwell Ave., Paterson 1, N. J.
 ⓂRepublic Steel Corp., Republic Building, Cleveland 1, Ohio.
 ⓂRyerson & Son, Inc., J. T., Box 3000-A, Chicago, Ill.
 ⓂSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.

WIRE—Tungsten

- ⓂCleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.
 ⓂCOHN CORP., SIGMUND, 44 Gold St., New York, N. Y. ADV. PG. 176.
 ⓂEisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.
 ⓂFansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
 ⓂNorth American Philips Co., 100 E. 42nd St., New York 17, N. Y.
 ⓂSYLVANIA ELECTRIC PRODUCTS, INC., Emporium, Pa. ADV. PG. 286 to 290.
 ⓂWESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

WIRE RECORDER ASSEMBLIES

- Air King Products Co., Inc., 170 53rd St., Brooklyn, N. Y.
 ⓂBRUSH DEVELOPMENT CO., THE, 3405 Perkins Ave., Cleveland 14, Ohio. ADV. PG. 124, 125.
 ⓂLear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
 Whitaker Cable Corp., Kansas City 16, Mo.
 ⓂWireway Corp. of America, 1331 Halsey St., Brooklyn 27, N. Y.

WOOFERS

See Loudspeakers

X-RAY EQUIPMENT—Industrial

- ⓂAllis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
 ⓂBar-Ray Products, Inc., 209 25th St., Brooklyn 32, N. Y.
 ⓂFarrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
 ⓂGeneral Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
 Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
 ⓂHigh Voltage Engineering Corp., 7 University Rd., Cambridge 38, Mass.
 ⓂKelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
 ⓂNorth American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
 ⓂPicker X-Ray Corp., 300 Fourth Ave., New York 10, N. Y.
 ⓂRadiation Counter Laboratories, Inc., 1844 W. 21st St., Chicago 8, Ill.
 St. John X-Ray Laboratory, Califon, N. J.
 ⓂStandard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
 ⓂTriplett & Barton, Inc., 831 N. Lake St., Burbank, Calif.

Ⓢ indicates . . . IN PRODUCTION • AVAILABILITY • UNRESTRICTED FOR GENERAL USE

- Ⓢ Triplet & Barton, Inc., 831 N. Lake St., Burbank, Calif.
- Ⓢ VICTOREEN INSTRUMENT CO., 5806 Hough Ave., Cleveland 3, Ohio. ADV. PG. 241.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

YOKES, DEFLECTION

- Ⓢ A. P. W. Co., 72 W. Main St., Rockaway, N. J.
- Ⓢ Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio.
- Ⓢ Amplex Division, Chrysler Corp., Detroit 31, Mich.
- Ⓢ BARKER & WILLIAMSON, 235 Fairfield Ave., Upper Darby, Pa. ADV. PG. 169.
- Ⓢ Corona Engineering Service, 94-52 Corona Ave., Elmhurst, N. Y.
- Ⓢ Radio Products Co., Inc., 2305 Armitage Ave., Chicago 47, Ill.
- Ⓢ Diehl Mfg. Co., 1129 FINDERNE AVE., Somerville, N. J.
- Ⓢ DuMont Laboratories, Inc., Allen B., Electronic Parts Div., Market St., East Paterson, N. J.
- Ⓢ GENERAL ELECTRIC CO., Electronics Dept., Electronics Park, Syracuse, N. Y. ADV. PG. 5 to 18.
- Ⓢ Guthman Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Ⓢ HILLBURN ELECTRONIC PRODUCTS CO., 55 Nassau Ave., Brooklyn 22, N. Y. ADV. PG. 46.

- Ⓢ VICTOREEN INSTRUMENT CO., 5806 Hough Ave., Cleveland 3, Ohio. ADV. PG. 241.
- Ⓢ WESTINGHOUSE ELECTRIC CORP., P. O. Box 868, Pittsburgh 30, Pa. ADV. PG. 77.

X-RAY EQUIPMENT—Medical

- Ⓢ Allis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
- Ⓢ Bar-Ray Products, Inc., 209 25th St., Brooklyn 32, N. Y.
- Ⓢ Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.
- Ⓢ General Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.
- Ⓢ GIBBS DIVISION, GEORGE W. BORG CORP., Delavan, Wis. ADV. PG. 198, 199.
- Ⓢ High Voltage Engineering Corp., 7 University Rd., Cambridge 38, Mass.
- Ⓢ Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
- Ⓢ North American Philips Co., Inc., 100 E. 42nd St., New York 17, N. Y.
- Ⓢ Picker X-Ray Corp., 300 Fourth Ave., New York 10, N. Y.
- Ⓢ Radiation Counter Laboratories, Inc., 1844 West 21st St., Chicago 8, Ill.

- Ⓢ HOULIHAN CO., T. J., 2508-14 W. Lawrence Ave., Chicago 25, Ill. ADV. PG. 276.
- Ⓢ I-T-E CIRCUIT BREAKER CO., 19th & Hamilton Sts., Philadelphia 30, Pa. ADV. PG. 40, 41.
- Ⓢ K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- Ⓢ Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
- Ⓢ Philco Corp., Tioga & C Sts., Philadelphia 34, Pa.
- Ⓢ RADIO CORP. OF AMERICA, RCA Victor Div., Tube Dept., Harrison, N. J. ADV. PG. 73 to 75, Inside Back and Back Covers.
- Ⓢ ROLA CO., INC., THE, 2530 Superior Ave., Cleveland 14, Ohio. ADV. PG. 43.
- Ⓢ Ross Mfg. Co., 860 Washington St., Burlington, Iowa.
- Ⓢ STANDARD TRANSFORMER CORP., Elston, Kedzie & Addison, Chicago 18, Ill. ADV. PG. 62.
- Ⓢ Tech-Master Products Co., 443-5 Broadway, New York 13, N. Y.
- Ⓢ Teletron Co., The, 4019 Prospect Ave., Cleveland 3, Ohio.
- Ⓢ Teleradio Engineering Corp., 99 Wall St., New York, N. Y.
- Ⓢ Television Laboratories, Inc., 542 N. Parkside Ave., Chicago 44, Ill.
- Ⓢ Todd-Tran Corp., 156 Gramatan Ave., Mt. Vernon, N. Y.

TRADE NAME INDEX

The following list, provided by manufacturers, comprises the registered trade names of products in or related to the electronic field. It is intended for use in determining the manufacturer's name when only a trade name is known. Addresses can be obtained by referring to the Manufacturers Index on page D-151. Only coined trade names are listed, as it was deemed unnecessary to include a company name, even though it was a registered trade name, inasmuch as the manufacturer's identity was immediately apparent.

- "A" NICKEL**
International Nickel Co., Inc.
- A & A**
Electricoil Coil Winding Co.
- ACA**
Amplifier Corp. of America
- ACE**
American Hard Rubber Co.
- ACE**
Arro Expansion Bolt Co.
- ACE**
Crosley Corp.
- ACME-MOLD**
Acme Wire Co.
- ACOUSTICEL**
Brush Development Co.
- ACRAWAX C**
Glyco Products Co., Inc.
- ACROCEL**
Acromark Co.
- ACROCUT**
Acromark Co.
- ACROD**
Acme Electric Heating Co.
- ACRO-ETCH**
Acromark Co.
- ACROFLEX**
Anchor Plastics Co., Inc.
- ACROGRAVE**
Acromark Co.
- ACROHEX**
Acromark Co.
- ACRO-INK**
Acromark Co.
- ACROM**
Acme Electric Heating Co.
- ACROMARKER**
Acromark Co.
- ACRO PLAC**
Acromark Co.
- ACRO-PRINTER**
Acromark Co.
- ACROSNAP**
Acro Electric Co.
- ACROSOUND**
Acro Products Co.
- ACROTOOL**
Acromark Co.
- ACROVISION**
Acro Products Co.
- ACRYLOID**
Rohm & Haas Co.
- ACRYWELD**
American Phenolic Corp.
- ACTRON**
Radionic Transformer Co.
- ADAPTORS**
ABC Radio Labs.
- ADC**
Audio Development Co.
- ADJUSTOHM**
Ward Leonard Electric Co.
- ADJUST-A-CONE**
Quam Nichols Co.
- ADJUST-A-VOLT**
Standard Electrical Products Co.
- ADLAKE**
Adams & Westlake Co.
- AEC**
American Electroneering Co.
- ADVANCE**
Driver-Harris Co.
- AECO**
American Elec. Cable Co.
- AERIOTRON**
Westinghouse Electric Corp.
- AERO**
Sheffield Instrument Corp.
- AEROCOM**
Aeronautical Communications Equipment Co.
- AEROCON**
Aerovox Corp.
- AERO-GUN**
Shallcross Mfg. Co.
- AEROLENE**
Aerovox Corp.
- AEROLITE**
Aerovox Corp.
- AERO-MAGNETTE**
Heinemann Electric Co.
- "AERONAUT" PRODUCTS**
Aeronautical Radio Mfg. Co.
- AEROPPOINT**
Aero Needle Co.
- AERO SEAL**
Breeze Corpn., Inc.
- AERO-THREAD**
Heli-Coil Corp.
- AEROTROL**
Cook Electric Co.
- AGA**
American Gas Accumulator Co.
- AGASTAT**
American Gas Accumulator Co.
- AGWADAG**
Acheson Colloids Corp.
- AICO**
American Insulator Corp.
- AIDEX**
Aldine Paper Co., Inc.
- AIDRITE**
Aldine Paper Co., Inc.
- AIR O FRESH**
Melco Products, Inc.
- AIRACOUSTIC**
Johns-Manville Sales Corp.
- AIRBOY**
Mitchell Industries, Inc.
- AIR-COM**
Aermotive Equipment Corp.
- AIRCORE**
Communication Products Co., Inc.
- AIRDESIGN**
Tele-Video Corp.
- AIRFLEX**
Transradio Ltd.
- AIRFONE**
Electronic Specialty Co.
- AIR INDUCTORS**
Barker & Williamson
- AIR-LOOP**
Franklin Mfg. Corp., A. W.
- AIR-O-LINE**
Brown Instrument Co.
- AIR-RAY**
Edin Electronics Co.
- AIRSCOOT**
Mitchell Industries, Inc.
- AJAX**
Sherwin Williams Co.
- AJAX-NORTHRUP**
Ajax Electrothermic Corp.
- AJUST-A-VOLT**
Standard Electrical Products Co.
- AKRA-OHM**
Shallcross Mfg. Co.
- ALABAX**
Pass & Seymour, Inc.
- ALCOA**
Aluminum Company of America
- ALCROHM**
Magnetic Metals Co.
- ALCUPLATE**
General Plate Division Metals & Control Corp.
- ALDEX**
Aldine Paper Co.
- ALFERON**
Driver-Harris Co.
- ALGCO**
Auburn Manufacturing Co.
- ALL-HYDRAULIC**
Hydraulic Press Mfg. Co.
- ALMET**
Alloy Metal Wire Co.
- ALNOR**
Illinois Testing Labs., Inc.
- ALODINE**
American Chemical Paint Co.
- ALPHATRON**
Alpha Laboratories
- ALPHATRON**
National Research Corp.
- ALPO**
Standard Varnish Works.
- ALRAY**
Alloy Metal Wire Co.
- ALROK**
Aluminum Co. of America
- ALSCO**
Automatic Switch Co.
- ALSTLOY**
Doehler-Jarvis Corp.
- ALSIMAG**
American Lava Corp.
- ALSIPLATE**
General Plate Division Metals & Controls Corp.
- ALUMATREET**
Farrelloy Co.
- ALUMAWELD**
Johnson Mfg. Co., Inc.
- ALUMILITE**
Aluminum Co. of America
- ALUNDUM**
Norton Co.
- ÄLZAK**
Aluminum Co. of America
- AMINCO**
American Instrument Co.
- ALUMINUM OILITE**
Amplex Div.
Chrysler Corp.
- ALUNDUM**
Norton Co.
- AMBERLITE**
Rohm & Haas Co.
- AMBEROL**
Rohm & Haas Co.
- AMCO**
American Solder & Flux Co.
- AMCON**
American Condenser Co.
- AMECO**
American Electronics Corp.
- AMERBESTOS**
American Steel & Wire Co.,
U. S. Steel Corp., Sub.
- AMERCLAD**
American Steel & Wire Co.,
U. S. Steel Corp., Sub.
- AMERFLEX**
Marco Industries.
- AMERGLASS**
American Steel & Wire Co.
U. S. Steel Corp., Sub.
- AMERICAN**
Manning, Maxwell & Moore, Inc.
- AMERICAN BEAUTY**
American Electrical Heater Co.
- AMERICAN ELECTRIC**
The Kelley-Koett Mfg. Co., Inc.
- AMERICAN-PHILLIPS**
American Screw Co.
- AMERINE**
American Insulator Corp.
- AMERLAC**
American Electric Cable Co.
- AMERPLASTIC**
American Electric Cable Co.
- AMERSTRAND**
American Steel & Wire Co.,
U. S. Steel Corp., Sub.
- AMERTRAN**
American Transformer Co.
- AMINCO**
American Instrument Co.
- AMMOGAS**
Westinghouse Electric Corp.
- AMO**
General Cement Mfg. Co.
- AMOILS**
Distillation Products Industries.
- AMPEC**
Centralab Div.
Globe Union, Inc.
- AMPHENOL**
American Phenolic Corporation.
- AMPLICAL**
Rauland-Borg Corp.
- AMPLICORP**
Amplifier Corp. of America.
- AMPLIMUSE**
Crystal Research Labs., Inc.
- AMPLI-PRESS**
Aircraft-Marine Products, Inc.
- AMPLISET**
Bristol Co., The.
- AMPLUG**
Electrodyne Co.
- AMP-O-MATIC**
Aircraft-Marine Products, Inc.
- AMPROBE**
Pyramid Instrument Corp.
- AMPTRON**
Friez Instrument Div.
Bendix Aviation Corp.
- AMPYROL**
American Steel & Wire Co.,
U. S. Steel Corp. Sub.
- AMRAD**
Crosley Corp.
- AMRECON**
American Relay & Controls, Inc.
- AMVAR**
American Steel & Wire Co.,
U. S. Steel Corp. Sub.
- ANACONDA**
American Brass Co.
- ANADEL**
Joseph Dixon Crucible Co.
- AN-COR-LOL**
Laminated Shim Co., Inc.
- ANKOSEAL**
Ansonia Electrical Co.
- ANTECO**
Automatic Electric Co.
- ANTEN-A-CATOR**
Gordon Specialties Co.
- ANTENNAPLEX**
Radio Corp. of America.
- ANTILINK**
American Nut & Bolt Fastener Co.
- ANYVOLT**
Sorenson & Co.
- APELCO**
Applied Electronics Co.

APW
 American Platinum Works.
AQUADAG
 Acheson Colloids Corp.
AQUALITE
 National Vulcanized Fibre Co.
AQUALUX
 Westinghouse Electric Corp.
AQUA-NIL
 Standard Electrical Products Co.
AQUAPLATE
 Bache & Co., Semon.
AQUIFLUX
 Special Chemicals Co.
ARC-RITE
 Mellaphone Corp.
ARCTURUS
 Standard Arcturus Corp.
ARGOFLEX
 Argus, Inc.
ARISTA
 Coronet Radio & Television Corp.
ARKLESS
 Economy Fuse & Mfg. Co.
ARL
 Applied Research Labs.
ARLAB
 Radionic Transformer Co.
ARLAVOX
 Radionic Transformer Co.
ARMATITE
 Mica Insulator Co.
ARMITE
 Spaulding Fibre Co., Inc.
ARRESTONE
 Armstrong Cork Co.
ARVIN
 Noblitt Sparks Industries
ASBESTOSPAK
 Felt Products Mfg. Co.
ASCO
 Automatic Switch Co.
ASHCROFT
 Manning, Maxwell & Moore, Inc.
ASTRA-SONIC
 The Pentron Corp.
ATC
 Automatic Temperature Control Co., Inc.
ATOM
 Sprague Electric Co.
ATCOTRAN
 Automatic Temperature Control Co., Inc.
ATOMEER
 Maico Co., Inc.
ATR
 American Television & Radio Co.
ATTIC-V-BEAM
 Telrex, Inc.
AUBESTON
 Auburn Manufacturing Co.
AUDAX
 Audak Co.
AUDIAD
 Magnecord, Inc.
AUDICLE
 Sonotone Corp.
AUDIGAGE
 Branson Instruments, Inc.
AUDIODISCS
 Audio Devices, Inc.
AUDIOID
 Cook Laboratories.
AUDIOSCOPE
 Sonotone Corp.
AUDITRON
 Sonotone Corp.
AUDIO-LINE
 Audio Equipment Sales.
AUDIO MASTER
 Broadcasting Program Service.
AUDIO RULE
 Audio Equipment Sales.
AUDIPOINTS
 Audio Devices, Inc.
AUDIO TAPE
 Audio Devices, Inc.
AUDITION
 Reeves Soundcraft Corp.
AUDOGRAPH
 The Gray Mfg. Co.
AURICON
 Berndt-Bach, Inc.
AUTOCROMATIC
 Acton Co., H. W.
AUTO-DRY AIRE
 Communication Products Co., Inc.
AUTODYNE
 Westinghouse Electric Corp.
AUTOLUBE
 International Powder Metallurgy Co.
AUTOMANIC
 Premax Products Div. Chisholm-Ryder Co., Inc.
AUTOMATIC TERMINATOR
 Aircraft-Marine Products, Inc.
AUTOMIX
 Westinghouse Electric Corp.
AUTOPLATER
 Tracerlab, Inc.
AUTOSCALER
 Tracerlab, Inc.
AUTOSET
 Bristol Co., The.
AUTO-SONIC
 Vendo Co.
AUTOSYN
 Eclipse-Pioneer Div.
 Bendix Aviation Corp.

AUTOTROL
 Westinghouse Electric Corp.
AUTOTUNE
 Collins Radio Co.
AUTOVALVE
 Westinghouse Electric Corp.
AUTRASTAT
 Ward Leonard Electric Co.
AVIGATOR
 Mitchell Industries, Inc.
AWEBECO
 Anchor Webbing Co.
AXIFLO
 Westinghouse Electric Corp.
B-2
 Peck & Harvey
B&W
 Barker & Williamson.
BAACH—INTERNATIONAL
 International Machine Works
BABY-LISTENER
 Lyman Electronic Corp.
BADGER
 Reliance Automatic Lighting Co.
BALAC
 Conant Laboratories.
BALOWSTER
 F. G. Back Video Corp.
BANDBOX
 Crosley Corp.
BANTAM
 Aerovox Corp.
BANTAM GT
 Hytron Radio & Electronics Corp.
BANTAM JR
 Hytron Radio & Electronics Corp.
BARANM
 Ward Leonard Elec. Co.
BARCOL
 Barber Colman Co.
BARCOMBO
 Electronic Enterprises, Inc.
BAREX
 King Laboratories, Inc.
BAROHM
 Ward Leonard Electric Co.
BARRYMOUNT
 Barry Corp., The.
BASS REFLEX
 Jensen Mfg. Co.
BATTERY SCOPE
 McColepin-Christie Corp.
BATRYPOWER
 Radiart Corp.
BAT'S-EYE RADARECTOR
 D. S. Kennedy.
BEAVER
 Cornell-Dubilier Electric Corp.
BECHAMINE
 Peichhold Chemicals, Inc.
BECKMAN
 National Technical Laboratories.
BECO
 Brown Electro-Measurement Corp.
BECO
 Westinghouse Electric Corp.
BEE
 Buchanan Electrical Products Corp.
BEETLE
 American Cyanamid Co.
 Plastics Div.
BELCO
 Boque Electric Co.
BELFONE
 Bell Sound Systems, Inc.
BELFONE MESTRO
 Bell Sound Systems, Inc.
BELL-TIME
 Industrial Timer Corp.
BEN HAR
 Bentley, Harris Mfg. Co.
BENELEX
 Masonite Corp.
BEPCO
 Buchanan Electrical Products Corp.
BEPGER
 Republic Steel Corp.
BERKELEY DECIMAL
 Berkeley Scientific Co.
BERKSHIRE
 Radio Corporation of America
"BEST PRODUCTS"
 Cossor (Canada) Ltd.
BESTO-WIRE
 Rhode Island Insulated Wire Co.
BETTER LIVING
 Sonotone Corp.
B.I.W.
 Boston Insulated Wire & Cable Co.
BIMORPH
 Brush Development Co.
BINAC
 Eckert-Mauchly Computer Corp.
BI-SEAL
 Bishop Mfg. Corp.
BL
 Browning Laboratories, Inc.
BLACK DIAMOND
 Dunton Co., M. W.
BLACLIN
 Frederick Post Co.
BLUE BEAVER
 Condenser Corp. of America.
BLUE STREAK
 American Electric Cable Co.
BLUEBIRD
 Radio Corporation of America

BOARDMASTER
 Universal Drafting Machine Corp.
BONALLOY
 Bonney Forge & Tool Works
BOND
 Olin Industries, Inc.
BONDERITE
 Parker Rust Proof Co.
BOND-ROD
 Sherman Mfg. Co., H. B.
BOVIE
 Liebel-Flarsheim Co.
BOXSEAL
 Paisley Products Inc.
BRADLEY
 De Jur-Amsco Corp.
BRANDES
 Cannon Co., C. F.
BRANTRONIC
 Branston Electric Mfg. Co., Inc.
BRAZO
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
BRENKERT
 Radio Corp. of America
BREWSTER
 Maguire Industries
BRIDGER
 Audio Instrument Co.
BRILLIANTONE
 Acton Co., H. W.
BRINELCO
 Brinell Co., The
BRISTO
 Bristol Co., The
BROADBAND
 Racon Electric Co.
BROADCASTER
 Reeves Soundcraft Corp.
BRONCO
 General Plate Division
 Metals & Controls Corp.
BRONCO
 Western Insulated Wire Co.
BRONCO BESTON
 Western Insulated Wire Co.
BRONZOCHROME
 Eutectic Welding Alloys Co.
BROWN DEVIL
 Ohmrite Mfg. Co.
BROWN X
 Pass & Seymour, Inc.
BRYANT
 Westinghouse Electric Corp.
BUDGET
 Aircraft Marine Products Inc.
BUG, THE
 Vibroplex Co., Inc.
BUILT IN WATCHMAN
 Westinghouse Electric Corp.
BULLDOG
 Phelps Dodge Copper Products Corp.
BULLS-I-UNITS
 Kirkland Co., H. R.
BULPLATE
 Herlec Corp.
BULPLATE
 Sprague Electric Co.
BUNDYWELD
 Bundy Tubing Co.
BUSHEND
 Buchanan Electrical Products Corp.
BUSS
 Bussmann Mfg. Co.
BUTACITE
 E. I. du Pont de Nemours Co., Inc.
BUTTON MICAS
 Erie Resistor Corp.
B&W
 Barker & Williamson
BUZZ-TIME
 Industrial Timer Corp.
C-B
 Caddell-Burns Mfg. Co.
C & C
 McColepin-Christie Corp.
CMSZ ALLOY
 Electro Metallurgical Co.
 Unit of Union Carbide & Carbon Corp.
CALIVOLTER
 Calidyne Co., The
CALLMASTER
 Lyman Electronic Corp.
CALORIMETER
 Whiteman, R. A.
CAMBIRCROID
 American Electric Cable Co.
CAMCO
 Camburn, Inc.
CANDOHMS
 Muter Co.
CANNON-BALL
 Cannon Co., C. F.
CAPACIOLOG
 Wheelco Instruments Co.
CAPACITROL
 Wheelco Instruments Co.
CAPE COD
 Submarine Signal Div.
 Raytheon Mfg. Co.
CAPEHART
 Capehart-Farnsworth Corp.
CAPOHMIST
 Special Products Co.
CAPRISTOR
 Jeffers Electronics Co.
CARBIC
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.

CARBOFILM
Wilkor Products, Inc.

CARBOLITE
Linde Air Products Co.
Unit of Union Carbide & Carbon Corp.

CARBOMITE
Continental Carbon, Inc.

CARBONYL
General Aniline & Film Corp.

CARDAX
Electro-Voice, Inc.

CARDIETTE
Sanborn Co.

CARDIOFAX
Electrofax Corp.

CARDIOSCRIBE
General Electric X-Ray Corp.

CARDIOTRON
Electro-Physical Labs., Inc.

CARDYNE
Electro-Voice, Inc.

CARILLON DYNAMIC
Miller Mfg. Co., M. A.

CARRON-AIRE
Carron Mfg. Co.

CARTRIJ-DRY
Pyramid Electric Co.

CASCADE
Audio Industries

CASCADE
Linde Air Products Co.
Unit of Union Carbide & Carbon Corp.

CASCAMITE
The Borden Co.,
Chemical Division

CASCO
The Borden Co.,
Chemical Division

CASCOPHEN
The Borden Co.,
Chemical Division

CASCOREZ
The Borden Co.,
Chemical Division

CASTORDAG
Acheson Colloids Corp.

CATABOND
Catalin Corp. of America

CATAPAK
Catalin Corp. of America

CATAVAR
Catalin Corp. of America

CAT'S EYE
Ess Instrument Co.

CAVALCADE
Molded Insulation Co.
Aircraft Control Div.

CCC CHICAGO
Chicago Condenser Corp.

CCO
Bibley Electric Co.

C-D SEAL
Cornell-Dubilier Electric Corp.

CECOR
Commercial Equipment Co., Inc.

CECOTITE
Cook Electric Co.

CELAB
Clark Electronic Labs

CELASCREEN
Celanese Corp. of America

CELCON
Celanese Corp. of America

CELECTRAY
Weston Electrical Instrument Corp.

CELLO-BOND
Paisley Products, Inc.

CELLUFOAM
Masonite Corp.

CELLULOID
Celanese Corp. of America

CELORON
Continental Diamond Fibre Co.

CELVACENE
Distillation Products Industries

CENCO
Central Scientific Co.

CENTRALINE
Central Paper Co., Inc.

CERAMAG
Stackpole Carbon Co.

CERAMICON
Erie Resistor Corp.

CERAMICAPS
Muter Co.

CEREX
Monsanto Chemical Co.
Plastics Div.

CERISSO
Isolantite Mfg. Corp.

CEROC
Sprague Electric Co.

CERTI-CRIMP
Aircraft-Marine Products, Inc.

CETRON
Continental Electric Co.

CHALLENGER
Recorder
Rek-O-Kut Co., Inc.

CHAMPION
Crucible Steel Co. of America

CHAMPION No. 180
Division Lead Co.

CHANALYST
Radio Corporation of America

CHAN-L-MOUNT
Lord Mfg. Co.

CHARGALYZER
McColpin-Christie Corp.

CHARG-O-MATIC
Hertner Electric Co.

CHASS-EZ
General Cement Mfg. Co.

CHEMACO
Koppers Co.

CHEMIGLAS
Technicraft Supply Co., Radiocrafters

CHEMIFLUX
Technicraft Supply Co., Radiocrafters

CHEMIGUM
Goodyear Tire & Rubber Co.

CHERRIO
Crosley Corp.

CHEMLON
Crane Packing Co.

CHIME-MATIC
Executone, Inc.

CHINALAK
Dolph Co., John C.

CHROMARFLASH
Triumph Mfg. Co.

CHROMAX
Driver-Harris Co.

CHROMEX
Pass & Seymour, Inc.

CHROMO-FLASH
Photographic Products, Inc.

CHRONOLOG
National Acme Co.

CHRONO-SPRAY
Paragon Electric Co.

CHRONOTRON
Eclipse Pioneer Div.
Bendix Aviation Corp.

CIMET
Driver-Harris Co.

CINCH
National Lead Co.

CINE BALOWSTAR
Jen Products Co.

CINE-VOICE
Berndt-Bach Inc.

CIRCLATRON
Gadgets, Inc.

CIRCLE B
Bristol Motor Co.

CIRCLE ESS
Stewart Mfg. Corp., F. W.

CIRCLET
Trumbull Electric Mfg. Co.

CIRCUITMASTER
Fordham Mfg. Co.

CIRCUTROLS
Kollsman Instrument Div. of Square D Co.

"CL"
Alpha Wire Corp.

CLAM PIPE
Mueller Electric Co.

CLASSIC
Jensen Industries, Inc.

CLASSIC POINT
Eldeen Co., The

CLASSMETER
Nuclear Instrument & Chemical Corp.

CLEARSITE
Economy Fuse & Mfg. Co.

CLEARSONIC
U. S. Television Mfg. Corp.

CLETALLOY
Cleveland Tungsten, Inc.

CLETRON
Cleveland Electronics, Inc.

CLEVE-TUNG
Cleveland Tungsten, Inc.

CLINICAL ANALYZER
Brociner-Mass Instruments, Inc.

CLIP ON
Ferranti Electric, Inc.

CMH
Chicago Metal Hose Corp.

COATINGAGE
Branson Instruments, Inc.

CO-AX
Transradio Ltd.

COAXITUBE
Precision Tube Co., Inc.

COAXWITCH
Bird Electronic Corp.

COBANIC
Driver Co., Wilbur B.

CODUR
Maas & Waldstein Co.

COHARDITE
Connecticut Hard Rubber Co.

COHRLASTIC
Connecticut Hard Rubber Co.

COLONIAL
Pyramid Products Co.

COLOR-EYE
Instrument Development Laboratories, Inc.

COLORTOP
Trico Fuse Mfg. Co.

COMCO
Communications Co., Inc.

COMET
Driver-Harris Co.

COMMULAC
Martindale Electric Co.

COMMUNOPHONES
Bogen Co., David

COMMUTATOR RESURFACERS
Ideal Industries, Inc.

COMPACTUATOR
Air Associates, Inc.

COMPAR
Goodyear Tire & Rubber Co.

COMPARITOL
Scherr Co., Inc., George

COMPA-STATION
Motorola Inc.

COMPO
Bound Brook Oil-Less Bearing Co.

COMPO
Muter Co.

COMPREGNITE
Borden Co., The, Chemical Div.

COMTONE
Communications Co., Inc.

CONCERT
Jensen Industries, Inc.

CONCERT GRAND
Stewart-Warner Corp.

CONCERTONE
Berlant Associates

CONDENS-O-WELD
Westinghouse Electric Corp.

CONDUCTALUTE
Sauereisen Cements Co.

CONFESIONAIRE, THE
Audio Equipment Co., Inc.

CONFIDENCER
Aviometer Corp.

CONICAL-V-BEAM
Telrex Inc.

CONNSONATA
Conn Ltd., C. G.

CONNSONETTE
Conn Ltd., C. G.

CONPERNIK
Westinghouse Electric Corp.

CONTROFLEX
Eagle Signal Corp.

CONTROLITE
Ward Leonard Electric Co.

CONVECTRON
Eclipse Pioneer Div.
Bendix Aviation Corp.

CONVERS-O-CALL
National Intercommunicating Systems

COOKE
R. Y. Ferner Co.

COOLER-PROOF
Paisley Products Inc.

COOLIDGE
General Electric X-Ray Corp.

COPOLENE
American Phenolic Corp.

COPRENE
Maas & Waldstein Co.

COPROX
Bradley Labs., Inc.

COREPROOF
Magnetic Metals Co.

COREX
Standard Varnish Works

CORKOUSTIC
Armstrong Cork Co.

CORMER
Coronet Radio & Television Corp.

CORNELL
Video Corp. of America

COROHON
Wilkor Products, Inc.

CORONOX
Westinghouse Electric Corp.

COROX
Westinghouse Electric Corp.

CORRIB
Ohmite Mfg. Co.

CORULITE
Premax Products Div.
Chisholm-Ryder Co., Inc.

CORWICO
Cornish Wire Co.

COSMALITE
Cleveland Container Co., The

CO-SPIRAL
Stephens Mfg. Corp.

COTO
Coto-Coil Co., Inc.

COTTONITE
Acme Wire Co.

COUNTOMATIC
Instrument Development Labs.

COUPLATE
Centralab Div.
Globe Union Inc.

COX
Commercial Research Labs., Inc.

CO-X
Boston Insulated Wire & Cable Co.

COXPROX
Bradley Labs.

CRAFTSMEN
Radio Craftsmen, Inc.

CRAPO
Indiana Steel & Wire Co.

CREME-O-WAX
General Cement Mfg. Co.

CRESCENDON
Crosley Corp.

CRESTRAN
Crest Transformer Corp.

CROLITE
Crowley & Co., Inc., Henry L.

CROLOY
Crowley & Co., Inc., Henry L.

CROMALOY
Linde Air Products Co.
Unit of Union Carbide & Carbon Corp.

CROTHANE
Crowley & Co., Inc., Henry L.

CRUCIBLE WELD
 Westinghouse Electric Corp.
CROWN
 Tele King Corp.
CRYSCON
 Crystal Research Labs., Inc.
CRYSTALAB
 Crystal Research Labs., Inc.
CRYSTALEAR
 Brush Development Co.
CRYSTALIGNED
 Magnetic Metals Co.
CRYSTALINER
 Monitor Products Co.
CRYSTAL-SEAL
 Gits Molding Corp.
CRYSTAL-VOX
 Laurehk Radio Mfg. Co.
CRYSTOGRAPH
 Offner Electronics, Inc.
CRYSTOLON
 Norton Co.
C S P
 Westinghouse Electric Corp.
CUNICO
 Arnold Engineering Co.
CUNIFE
 Arnold Engineering Co.
CUNNINGHAM
 Radio Corp. of America
CUPALOY
 Westinghouse Electric Corp.
CUPRON
 Driver Co., Wilbur B.
CUSHIONTONE
 Armstrong Cork Co.
CUSTOMODE
 Jensen Mfg. Co.
CYCLE-PROGRESS
 Automatic Temperature Control Co.
CYCELOG
 The Foxboro Co.
CYCL-FLEX
 Eagle Signal Corp.
CYCLE-RAY
 Friez Instrument Div.
 Bendix Aviation Corp.
CYCLE-FLEX
 Wilson & Co., G. C.
CYCLE-TROL
 Cyclotron Specialties Co.
CYCLOTROL
 Minneapolis-Honeywell Regulator Co.
D 54
 Mallory & Co., Inc., P. R.
"D" NICKEL
 The International Nickel Co., Inc.
DAG
 Acheson Colloids Corp.
DALBAR
 Electronic Enterprises
DALE
 Electronic Development Co.
DALMOTRON
 Dalmo Victor Co.
DAMASCENE
 Linick Chemical Co.
DAMASCITE
 Amplex Div.
 Chrysler Corp.
DANDEE
 Aerovox Corp.
DA-NITE
 Bendix Aviation Corp.
DAVENOIL
 Daven Co.
DAVOHM
 Daven Co.
DC 4
 Dow Corning Corp.
DC SILICONES
 Dow Corning Corp.
DC 200 and DC 500
 Dow Corning Corp.
DC 703
 Dow Corning Corp.
DC 801, DC 802, DC 803, DC 804
 Dow Corning Corp.
DC 993 and DC 996
 Dow Corning Corp.
DC 2103
 Dow Corning Corp.
DE ARMOND
 Rowe Industries
DE FOREST
 Radio Corporation of America
DECATRAN
 Melco Products, Inc.
DECOHM
 Davis Electric Co.
DEEMINIZER
 Crystal Research Labs., Inc.
DE-FROST-IT
 Paragon Electric Co.
DEHYDRA
 Wappler, Inc.
DE-ION
 Westinghouse Electric Corp.
DEKA-XTAL
 Scientific Radio Products Co.
DELTAMAX
 Allegheny Ludlum Steel Corp.
DELTAMAX
 Arnold Engineering Co.
DEMCO
 Dormitizer Electric & Mfg. Co., Inc.
DEOXIDINE
 American Chemical Paint Co.

DEOXO
 Baker & Co., Inc.
DENSITE
 West-Virginia Pulp & Paper Co.
 Pulp Products Dept.
DESCO
 Dietz Design & Mfg. Co.
DESPARD
 Pass & Seymour, Inc.
DETECT-A-FIRE
 Fenwal, Inc.
DETECTOMETER
 Dillon & Co., Inc., W. C.
DETERMOHM
 Ohmite Mfg. Co.
DEW POINTER
 Illinois Testing Labs., Inc.
DIABO
 Tibbetts Industries, Inc.
DIACLOR
 Sangamo Electric Co.
DIACONE
 Altec Lansing Corp.
DI-ACRO
 O'Neil Irwin Mfg. Co.
DIAL
 Nebel Lab., R. E.
DIALCO
 Dial Light Co. of America
DIAMATROL
 Standard Electronics Research Corp.
DIAMOND
 Continental Diamond Fibre Co.
DIAMOND
 Tetrad Corp.
DIAMOND G
 Garrett Co., Inc., G. K.
DIAMOND H
 Hart Mfg. Co.
DIAMOND PRODUCTS
 Garrett Co., Inc., George K.
DIAMONTINE
 Linick Chemical Co.
DIAPHLEX
 Cook Electric Co.
DIATRON
 Consolidated Engineering Corp.
DICO
 Diamond Mfg. Co.
DIEFLEX
 Insulation Manufacturers Corp.
DIEGRAF
 Grafo Colloids Corp.
DIELITE
 Wirt Co.
DI-FAN
 Andrew Co.
DI-FORMED
 Precision Paper Tube Co.
DILECTENE
 Continental Diamond Fibre Co.
DILECTO
 Continental Diamond Fibre Co.
DIMMERETTE
 Ward Leonard Electric Co.
DIPLOIT
 Dielectric Materials Co.
DIPMASTER
 Aerofil Products Co.
DIPWITE
 Special Chemicals Co.
DIPWRAP
 Paisley Products Inc.
DISCALOY
 Westinghouse Electric Corp.
DISCAPS
 Radio Materials Corp.
DISCOHM
 Ward Leonard Electric Co.
DISPATCHER
 Motorola Inc.
DISPLAY KING
 Gale Dorothea Mechanisms
DIVCO
 Division Lead Co.
DIVIDOHM
 Ohmite Mfg. Co.
DOBAR
 Dobeckmun Co., The
 Industrial Products Div.
DOBRO
 Valco Mfg. Co.
DOG
 Radio Corporation of America
DOLER
 Doehler-Jarvis Corp.
DOLFLEX
 Dolph Co., John C.
DOLITE
 Doehler-Jarvis Corp.
DONUT
 Associated Research Inc.
DOPLEX
 Dobeckmun Co., The
 Industrial Products Div.
DOISMETER
 Instrument Development Labs.
DOT
 United-Carr Fastener Corp.
DOWMETAL
 Dow Chemical Co.
D. R. C.
 Dayco Radio Corp.
DRIMETER
 Fielden Electronics Inc.
DRI-N-TITE
 Horn Co., Inc., A. C.

DRIOX
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
DRITHERM
 North American Electric Lamp Co.
DU KANE
 Operadio Mfg. Co.
DU NOUY
 Central Scientific Co.
DUAL DANDEE
 Aerovox Corp.
DUALDRUM
 Gorrell & Gorrell
DUAL-HORN
 Brociner Electronics Laboratory
DUART
 Maas & Waldstein Co.
DUBLER
 Precision Plastic Products Inc.
DUBL-X
 Telrex, Inc.
DUCCO
 E. I. du Pont de Nemours & Co., Inc.
DUCON
 Dual-Remote Control Co.
DULAC
 Maas & Waldstein Co.
DULUX
 E. I. du Pont de Nemours & Co., Inc.
DUOCARB
 Driver Co., Wilbur B.
DUOCRE X
 Horn Co., Inc., A. C.
DUODIAL
 Helipod Corp.
DUO-FLEX
 Dumore Co., The
DUO-PULSE
 Automatic Temperature Control Co., Inc.
DUOSCALE
 Tracerlab, Inc.
DUO-SEAL
 Welch Scientific Co., W. M.
DUO-SPEED
 V-M Corp.
DUPLEX
 Altec Lansing Corp.
DURALINE
 Universal Drafting Machine Corp.
DURALON
 U. S. Stoneware Co., The
DURASHIELD
 Plastic Fabricators Co.
DURATAPE
 Rahm Instruments, Inc.
DURATIP
 Weller Mfg. Co.
DURATRON
 Hofmann Corp., C. L.
DURITE
 Borden Co., The, Chemical Div.
DURO
 Rogers Corp.
DUROID
 Rogers Corp.
DUTCH BOY
 National Lead Co.
DX MASTERSPEAKERS
 DX Radio Products Co., Inc.
DYEPRINT
 Times Facsimile Corp.
DYKANOL
 Cornell-Dubilier
 Electric Corp.
DYNACOL
 Crosley Corp.
DYNAGAGE
 Photocon Research Products
DYNALOG
 Foxboro Co., The
DYNAMASTER
 Bristol Co., The
DYNAPHONE
 Ansley Radio Corp.
DYNA-TACH
 Electric Tachometer Corp.
DYNATHERM
 American Diathermy Productions
DYNATONE
 Ansley Radio Corp.
DYNATONE
 Crosley Corp.
DYNETRIC
 Gisholt Machine Co.
DYNETRIC
 Westinghouse Electric Corp.
DYNOGRAPH
 Annis Co., R. B.
DYNOGRAPH
 Offner Electronics, Inc.
DYNOID
 McQuay-Norris Mfg. Co.
E. A. D.
 Eastern Air Devices, Inc.
"E" NICKEL
 The International Nickel Co., Inc.
EAI
 Electronic Associates, Inc.
EARSET
 Telex, Inc.
EASY-FLO
 Handy & Harman
EBROK
 Richardson Co.
ECCO
 Triad Transformer Mfg. Co.

ECHOPHONE
Hallicrafters Co.

ECKCO
Eckstein Radio & Television Co.

ECO
Economy Fuse & Mfg. Co.

ECONOFLEX
Elliott Mfg. Co.

ECONO-SLIDE
Grant Pulley & Hardware Co.

EDGEOHM
Ward Leonard Electric Co.

EDIPHONE
Edison Inc., Thomas A.

EDIPROBE
Electronic Designs, Inc.

EDUCATOR
Operadio Mfg. Co.

EDUCATOR
Wilcox-Gay Corp.

EEI
Electronic Enterprises Inc.

EICO
Electronic Instrument Co. Inc.

8-BALL
Ward Products Corp., Div. of The Gabriel Co.

EIMAC
Eitel-McCullough, Inc.

EJECT-O-MATIC
Multi-Products Tool Co.

EKOTAPE
Webster Electric Co.

EL
Electrons, Inc.

ELASTOBOND
Paisley Products, Inc.

ELASTRON
Industrial Synthetics Corp.

ELCOFONE
Loral Electronics Corp.

ELECTONE
Northeastern Engineering, Inc.

ELECTR O VANE
Brown Instrument Co.

ELECTREX
Gorrell & Gorrell

ELECTRICORD
Pacific Electriccord Company

ELECTRITE
West Virginia Pulp & Paper Co.
Pulp Products Dept.

ELECTRIX
U. S. Rubber Co.

ELECTRO-CAL
Industrial Electronics, Inc.

ELECTROCAM
Westinghouse Electric Corp.

ELECTRO-COUNTER
Lansing Engineering Co., Electronics Div.

ELECTROD
Teletronics Corp.

ELECTRO-LARYNX
Aurex Corp.

ELECTROLIMIT
Pratt Whitney Div., Niles-Bement-Pond Co.

ELECTROMANOMETER
Sanborn Co.

ELECTRO-MATIC
Automatic Signal Div.

ELECTROMAX
Leeds & Northrup Co.

ELECTROMET
Electro Metallurgical Division
Union Carbide & Carbon Corp.

ELECTRON BELL
Rigas & Jeffreys, Inc.

ELECTRONAMIC
Precision Apparatus Co.

ELECTRONIC DOORMAN
John T. O'Connor & Co.

ELECTRONIC EAR
Sonotone Corp.

ELECTRONIC FEATHER
Westinghouse Electric Corp.

ELECTRONIC HANDYMAN
John T. O'Connor & Co.

ELECTRONIK
Minneapolis-Honeywell Regulator Co.

ELECTROPHOT
Adair & Rhamstine

ELECTROPHOTOMETER
Fisher Scientific Co.

ELECTROSE
Insulation Mfg. Co.

ELECTROTEMP
Westinghouse Electric Corp.

ELECTROTHERM
Thermionic Engr. Corp.

ELECTROX
Schauer Mfg. Corp.

ELECTR-O-VANE
Minneapolis-Honeywell Regulator Co.

ELECTUNER
General Instrument Corp.

ELENCO
Electronic Engineering Corp.

ELEPHANT
Phosphor Bronze Corp.

ELINCO
Electric Indicator Co.

ELINCOR
Electronic Indicator Corp.

ELKALOY
P. R. Mallory & Co., Inc.

ELKONITE
P. R. Mallory & Co., Inc.

ELKONIUM
P. R. Mallory & Co., Inc.

ELLANAR
L & R Mfg. Co.

EL-MENCO
Electro Motive Mfg. Co.

ELMET
North American Philips Co., Inc.

ELVANOL
E. I. du Pont de Nemours & Co., Inc.

EMC
Electric Motor Corp.

EMDECO
Magnetic Devices Corp.

EMICO
Electro-Mechanical Instrument Co.

EMPCO
Electronic Mechanical Products Co.

EMPIRE
Mica Insulator Co.

EMPIRE
Russell, Burdsall & Ward Bolt and Nut Co.

ENAMELITE
Acme Wire Co.

ENDURO
Republic Steel Corp.

ENDUR-PRENE
General Insulated Wire Works, Inc.

ENE-VOLT
Gorrell & Gorrell

ENPO
Piqua Machine & Mfg. Co.

EONITE
U. S. Rubber Co.

EOPRENE
U. S. Rubber Co.

EPCO
Etched Products Corp.

EPLAB
Eppley Lab., Inc., The

EQUALOAD
Keystone Carbon Co., Inc.

ERSIN MULTICORE
Multicore Sales Corp.

ESCO
Electric Specialty Co.

ESICO
Electric Soldering Iron Co.

ESNA
Elastic Stop Nut Corp. of America

ES-NAILS
Elastic Stop Nut Corp.

ETHOCEL
Dow Chemical Co.

ETHYLON
American Phenolic Corp.

ETCO
Electronic Transformer Co., Inc.

EUREKA
Morse Co., Frank W.

EUTEC-SILVER-WELD
Eutectic Welding Alloys Corp.

EUTECHROM
Eutectic Welding Alloys Corp.

EUTECROD
Eutectic Welding Alloys Corp.

EUTECTOR
Eutectic Welding Alloys Corp.

EUTECTRODE
Eutectic Welding Alloys Corp.

EVABRITE
Bache & Co., Semon

EVALAST
Bache & Co., Semon

EVEN-BREAK
Electric Eye Equipment Co.

EVENRAY
Fostoria Pressed Steel Corp.

EVERLASTING
Harper Co., The, H. M.

EVELYN
Rubicon Co.

EVEREADY
National Carbon Division,
Union Carbide & Carbon Corp.

EVERLOCK
Thompson-Bremer & Co.

EVER-LOK
Russell & Stoll Co., Inc.

EXCELLALL
Frederick Post Co.

EXIDE
Electric Storage Battery Co.

EXPLAINETTE
Operadio Mfg. Co.

EYE WITNESS
Radio Corporation of America

E-Z
Pyramid Products Co.

E-Z CODE
Western Lithograph Co.
E-Z Code Div.

E-Z CUE
Amplifier Corp. of America

FARADON
Cornell-Dubilier Electric Corp.

FARATRON
Lumenite Electric Co.

FARCO
Farrelloy Co.

FASTACK
Paisley Products, Inc.

FASTENEEING
Central Screw Co.

FASTICK
Paisley Products, Inc.

FASTOP
Lear, Inc.

FATHOMETER
Raytheon Mfg. Co.

FAST'S
Koppers Co., Inc.

FAXIMILE
Hogan Laboratories, Inc.

FAXPAPER
Hogan Laboratories, Inc.

FEATHERIDE
Webster Electric Co.

FEDCO
Federal Engineering Co.

FEDERAL RECORDER
Conn Ltd., C. G.

FEL-PAK
Felt Products Mfg. Co.

FEL-PRO
Felt Products Mfg. Co.

FENOX
Bakelite Corp.

FERRAMIC
General Ceramics & Steatite Corp.

FERRET
Coastwise Electronic Co., Inc.

FERROTUNE
S-W Inductor Co.

FIBERGLAS
Owens-Corning Fiberglas Corp.

FIBRACOUSTIC
Johns-Manville Sales Corp.

FIBESTOS
Monsanto Chemical Co., Plastics Div.

FIBRETONE
Johns-Manville Sales Corp.

FIDELITONE
Permo, Inc.

FIFTY-FOUR
Cardwell Mfg. Corp., Allen D.

FILMGRAPH
Miles Reproducer Co., Inc.

FILMSCRIBER
Miles Reproducer Co., Inc.

FILNIC
Driver-Harris Co.

FILPEEC
Centralab Div., Globe Union Inc.

FILTERETTE
Deutschmann Corp., Tobe

FILTERNOYS
Continental Carbon, Inc.

FILTERS L
Sprague Electric Co.

FILTERVOLT
Insuline Corp. of America

FIRE DEVIL
Littelfuse, Inc.

FIREYE
Combustion Control Corp.

FISHERFONE
Fisher Research Lab.

FIVER
Crosley Corp.

FLAG GRIP
Aircraft-Marine Products, Inc.

FLAME-OTROL
Wheelco Instrument Co.

FLAME-WARDEN
Combustion Research Laboratories, Inc.

FLASH
Sheldon Electric Co.

FLATAACK
Paisley Products Inc.

FLATWRAP
Paisley Products Inc.

FLEET CONTROL
Hammarlund Mfg. Co.

FLEXAGUIDE
Airtron Inc.

FLEX-A-POWER
Trumbull Electric Mfg. Co.

FLEXARC
Westinghouse Electric Corp.

FLEXIFLAT
Paisley Products Inc.

FLEXIFONE
Operadio Mfg. Co.

FLEXILUGS
Frankel Connector Co.

FLEXISPLICES
Frankel Connector Co.

FLEXITIP
Weller Mfg. Co.

FLEXI-TROL
Wilson & Co., G. C.

FLEXITONE
Operadio Mfg. Co.

FLEXITUBE
Walter L. Schott Co.

FLEXLOC
Standard Pressed Steel Co.

FLEXOPULSE
Eagle Signal Corp.

FLEX-SOK
Stupakoff Ceramic & Mfg. Co.

FLEX-STAFF
Pfanstiehl Chemical Co.

FLEXTACK
Paisley Products Inc.

FLIGHT COM
Communications Co., Inc.

FLIGHTWEIGHT
Bendix Aviation Corp.

FLIPON
Westinghouse Electric Corp.

FLOATING JEWEL
Crosley Corp.

FLOOD-FLASH
Photobell Company

FLOSOL
American Chemical Paint Co.

FLOTROL
 Lorain Products Corp.
FLOWRATOR
 Fischer & Porter Co.
FLUORADEX
 Westinghouse Electric Corp.
FLUORO-RECORD
 Fairchild Camera & Instrument Corp.
FLUOROSPOT
 Westinghouse Electric Corp.
FLUOROVUE
 Westinghouse Electric Corp.
FLUSH-LITE
 Littelfuse, Inc.
FLUTO
 Pass & Seymour Inc.
FLUTOLIER
 Pass & Seymour Inc.
FLUX GATE
 Eclipse-Pioneer Div., Bendix Aviation Corp.
FLUXRITE
 National Lead Co.
FM-G
 General Controls Co.
F. N. A.
 Paisley Products, Inc.
FOOTROL
 General Control Company
FORDMICA
 Ford Radio & Mica Corp.
FORTICEL
 Celanese Corp. of America
FORTISAN
 Celanese Corp. of America
'49' ALLOY
 Magnetic Metals Co.
FOSTERITE
 Westinghouse Electric Corp.
FOTOLECTRIC
 Worner Electronic Devices
F. P. INDUCTUNER
 Mallory & Co., Inc., P. R.
FRAHM
 Biddle Co., James G.
FREE-CUT INVAR '36'
 Carpenter Steel Co.
FREED-EISEMANN
 Freed Radio Corp.
FREE-VANE
 Bristol Co., The
FREQUEMATIC
 Federal Telephone & Radio Corp.
FROST
 Chicago Telephone Supply Corp.
FURNATRON
 Westinghouse Electric Corp.
FURZEHILL
 American British Technology, Inc.
FUSETRON
 Bussmann Mfg. Co.
FUSTATS
 Bussmann Mfg. Co.
FYBERGLASS
 Eraser Co., Inc.
 Rush Wire Stripper Div.
FYBEROID
 Wilmington Fibre Specialty Co.
GI
 General Industries Co.
G-C
 General Cement Mfg. Co.
G-MAX
 Flight Research Engineering Corp.
G-METER
 Schottland, Frederick D.
GALVANOID
 Wickwire Spencer Steel, Div., Colorado Fuel & Iron Corp.
GALVEX
 Wickwire Spencer Steel, Div., Colorado Fuel & Iron Corp.
GAMMATRON
 Heintz & Kaufman Ltd.
GARCEAU
 Electro-Medical Lab., Inc.
GEMCOTE
 Gemloid Corp.
GEMFLEX
 Gemloid Corp.
GEMGLEEN
 Gemloid Corp.
GEMLIKE
 Gemloid Corp.
GEMLITE
 Gemloid Corp.
GEMLOID
 Gemloid Corp.
GEMWELD
 Gemloid Corp.
GENEMOTOR
 Carter Motor Co.
GENERAL BRAND
 General Dry Batteries, Inc.
GENERALITIES
 Fostoria Pressed Steel Corp.
GENEVALOC
 Bendix Aviation Corp., Pacific Div.
GEN-RAL
 Muter Co.
GEON
 Goodrich Chemical Co., B. F.
GIBSILOY
 Gibson Electric Co.
GIBSON-SPRINGS
 Associated Spring Corp.

GLAMORTONE
 Crosley Corp.
GLASOHM
 Clarostat Mfg. Co., Inc.
GLASS SEALING '42', '426', '49'
 Carpenter Steel Co.
GLASSMIKE
 Condenser Products Co.
GLASTIC
 Laminated Plastics, Inc.
GLENNITE
 Gulton Mfg. Corp.
GLIDER
 Shure Brothers
GLOBAL
 Molded Insulation Co., Aircraft Control Div.
GLOBAR
 Carborundum Co.
GLOBE TROTTER
 Radio Corporation of America
GLO-TECH
 Fischer & Porter Co.
GLYDAG
 Acheson Colloids Corp.
GOLDEN BEAM
 Motorola Inc.
GOLDEN THROAT
 Radio Corporation of America
GOLDEN VIEW
 Motorola Inc.
GOLDEN VOICE
 Motorola Inc.
GOLD-SEAL
 Miller Co., B. F.
GOODELL
 Minnesota Electronics Corp.
GOOD-RITE
 Goodrich Chemical Co., B. F.
GOTHAM
 Shevers Inc., Harold
GOTHARD
 Johnson Co., E. F.
G-P
 Erie Resistor Corp.
GRACOIL
 Gramer Co., The
GRAFOIL
 Brush Development Co.
GRAFOLUX
 Grafo Colloids Corp.
GRAFO CONCENTRATE
 Grafo Colloids Corp.
GRALAB
 Dimco-Gray Co.
GRANODINE
 American Chemical Paint Co.
GRAPHALLOY
 Graphite Metallizing Corp.
GRAVIGAGE
 Ess Instrument Co.
GREENOHM
 Clarostat Mfg. Co., Inc.
GRENZ
 Westinghouse Electric Corp.
GRIDNIC
 Driver-Harris Co.
GRIP-HOLD
 JFD Mfg. Co.
GRIP-POINT
 Vaco Products Co.
GRIP TIGHT
 Paisley Products, Inc.
GRIPMASTER
 Walker Co., George
GRIPPER
 Scovill Mfg. Co., Industrial Fastener Div.
GRIPITITE
 Stevens-Walden, Inc.
GRIP-X
 Rattan Mfg. Co., The
GRIZZLY
 U. S. Rubber Co.
GUEST TELEVISION
 Industrial Television, Inc.
GUITAN
 Rowe Industries
GYRO
 Sperry Gyroscope Co.
GYROPILOT
 Sperry Gyroscope Co.
GYROSYN
 Sperry Gyroscope Co.
HABIRLENE
 Phelps Dodge Copper Products Corp.
HABIRSHAW
 Phelps Dodge Copper Products Corp.
HAFTSON
 Haft & Son, Inc.
HALLOWELL
 Standard Pressed Steel Co.
HALOWAX
 Union Carbide & Carbon Corp.
HAM CRYSTALS
 Nebel Lab., R. E.
HAMMERTONE
 Maas & Waldstein Co.
HANDI-GLOW
 Industrial Devices Inc.
HANDI-PHONE
 Murdock Mfg. Co., Wm J.
HANDIE TALKIE
 Motorola, Inc.
HANDY ANDY
 Rattan Mfg. Co., The.
HANDY-FLUX
 Handy & Harman.

HANDYVAR
 Martindale Electric Co.
HAR-CAM
 Harvey Radio Labs., Inc.
HARTRON
 Hart & Co., Inc. Frederick.
HARVEL
 Irvington Varnish & Insulator Co.
HARVEY
 Harvey Wells Electronics, Inc.
HARVEY
 Peck & Harvey
HASCROME
 Haynes Stellite Co.,
 Unit of Union Carbide & Carbon Corp.
HASTELLOY
 Haynes Stellite Co.,
 Unit of Union Carbide & Carbon Corp.
HAYSTELLITE
 Haynes Stellite Co.,
 Unit of Union Carbide & Carbon Corp.
HAZACODE
 Hazard Insulated Wire Works Div.,
 The Okonite Co.
HAZACORD
 Hazard Insulated Wire Works Div.,
 The Okonite Co.
HAZAKROME
 Hazard Insulated Wire Works Div.,
 The Okonite Co.
HAZARDEX
 Hazard Insulated Wire Works Div.,
 The Okonite Co.
HAZEGAGE
 Ess Instrument Co.
HC
 Nebel Lab., R. E.
HEAD
 Industrial Electronics, Inc.
HEATEX
 Acme Wire Co.
HEATH KIT
 Heath Co.
HEETMASTER
 Aerofil Products Co.
HEETMOR
 Acme Electric Heating Co.
HELIOFLASH No. 124
 MacLeod & Hanopol
HELLI-O-LITES
 C. F. Pease Co.
HELIOS
 Keuffel & Esser Co.
HELISCOPE
 Crosley Corp.
HERCO
 Hercules Electric & Mfg. Co., Inc.
HERCULES
 Acromark Co.
HERCULES
 Rubicon Co.
HERCULES
 Shure Brothers, Inc.
HERECROL
 Heresite & Chemical Co.
HERMETICIAN
 Fusite Corp.
HERMICO
 Hermetic Seal Products Co.
HEX-LOK
 Boots Aircraft-Nut Corp.
HEXLOX
 Prestol Corp.
HEX-SCRU
 Stronghold Screw Products
HEYCO
 Heyman Mfg. Co.
HI-BALL
 Radiart Corp.
HI-FARAD
 Aerovox Corp.
HI-FLUX
 Annis Co., R. B.
HI-G
 General Controls Co.
HIGH PERMEABILITY '49'
 Carpenters Steel Co.
HIGH STABILITY
 Welwyn Electronic Components Co.
HI-KAPS
 Centralab Div.
 Globe Union, Inc.
HI K CERAMICONS
 Erie Register Corp.
HINJON
 Thomas & Betts Co., Inc.
HIPERCO
 Westinghouse Electric Corp.
HIPERNIK
 Westinghouse Electric Corp.
HIPERSIL
 Westinghouse Electric Corp.
HIPOWER
 Radiart Corp.
HI-Q
 Electrical Reactance Corp.
HIS MASTER'S VOICE
 Radio Corporation of America
HI-TEMP
 Dielectric Materials Co.
HI-TEMP
 Rome Cable Corp.
HI-VOLT
 Industrial Devices, Inc.
HYVOKAPS
 Centralab Div.
 Globe Union, Inc.

HOBBY-FLEX
 Dumore Co., The
HOLD-HEET
 Russell Electric Co.
HOLD-TITE
 U. S. Rubber Co.
HOLLYTRAN
 Transformer Engineers
HOLTITE
 Continental Screw Co.
HOMAC
 Hose-McCann Telephone Co., Inc.
HOMEAISE
 Bogue Electric Mfg. Co.
HORNAC
 Horn Co., Inc., A. C.
HORNET
 New York Transformer Co., Inc.
HOT NAILS
 House of Television Inc.
HOUSE OF HEARING
 Sonotone Corp.
HP
 Hewlett-Packard Co.
HQ-129-X
 Hammarlund Mfg. Co.
H. R. S.
 Dine and Co., Inc., F. E.
HUMIDIGRAPH
 Bristol Co., The
HUMIDI-STEEL
 Pyramid Electric Co.
HUMIDOLAIN
 Star Porcelain Co.
HURLETRON
 Electric Eye Equipment Co.
HUSITE
 Huse Liberty Mica Co.
HUSHATONE
 Brush Development Co.
HUSKY
 Price Electric Corp.
HYCAR
 Goodrich Chemical Co., B. F.
HYDENT
 Burndy Engineering Co.
HYDEWA
 Leon J. Barrett Co.
HYDEX
 Jensen Mfg. Co.
HYDRAMOTOR
 General Controls Co.
HYDRAULIC
 White Rodgers Electric Co.
HYDROCORDER
 Raymond Rosen Engineering Products, Inc.
HYDROGRAF
 Grafo Colloids Corp.
HYDROSEC
 U. S. Rubber Co.
HY-EFF
 Taylor Mfg. Co.
HYFLEX
 Irvington Varnish & Insulator Co.
HYFLUX
 Indiana Steel Products Company
HYHERVAC
 Central Scientific Co.
HYLINK
 Burndy Engineering Co.
HY LOW
 Stevens Products Inc.
HYLUG
 Burndy Engineering Co.
HYMU
 Magnetic Metals Co.
HYMU "80"
 Carpenter Steel Co.
HYPASS
 Sprague Electric Co.
HYPER
 Radio Music Corp.
HYPER-MAG
 Radio-Music Corp.
HYPERSONIC
 Brush Development Co.
HYPERVAC
 Central Scientific Co.
HYPEX
 Jensen Mfg. Co.
HYPOT
 Associated Research, Inc.
HYPRESS
 Burndy Engineering Co.
HY-PUSS
 Sprague Electric Co.
HY-Q 75
 Hytron Radio & Electronics Corp.
HYSTERSET
 Ward Leonard Electric Co.
HYTEMCO
 Driver-Harris Co.
HYTOOL
 Burndy Engineering Co.
HYVAC
 Central Scientific Co.
HYVOL
 Aerovox Corp.
ICA
 Insuline Corp. of America
I. D. C.
 Motorola Inc.
ICE-STIK
 Paisley Products, Inc.
ICONIC
 Altec Lansing Corp.

IDECO
 International Derrick & Equip. Co.
IGNITO-CHEK
 Ionic Equipment Co.
ILLINI-HYCAPS
 Illinois Condenser Co.
ILLITRON
 Illinois Tool Works, Electronics Div.
IMC
 Insulation Mfrs. Corp.
IMCOR
 Insulation Manufacturers Corp.
IMMERSATHERM
 Mercaid Corp.
IMPEDOMETER
 Electrodyne Company.
IMPERIAL
 Indiana Steel & Wire Co.
IMPREGNITE
 Standard Varnish Works
INCA
 Phelps Dodge Copper Products Corp.
INCELOID
 American Products Mfg. Co.
INCO
 International Nickel Co., Inc., The
INCONEL
 Alloy Metal Wire Co.
INCONEL
 International Nickel Co., Inc., The
INCREVOLT
 Sorensen & Co.
INDALLOY
 Indiana Steel Products Company
INDCO
 Industrial Condenser Corp.
INDELCO
 Industrial Electronics Co., Inc.
INDUCTORIDS
 De Coursey Engr. Lab.
INDUCTOTHERM
 General Electric X-Ray Corp.
INDUCTUNER
 Mallory & Co., Inc., P. R.
INDUR
 Reilly Tar & Chemical Corp.
INDUSTRIAL TELECEIVERS
 Industrial Television, Inc.
INERTAIRE
 Westinghouse Electric Corp.
INERTEEN
 Westinghouse Electric Corp.
INET
 Industrial Electronics & Transformer Co.
INFERNOCOTE
 Wirt Co.
INMANCO
 Insulation Manufacturers Corp.
INPUTROLS
 Wheelco Instruments Co.
IN-RES-CO
 Instrument Resistors Co.
INSA-LUTE
 Sauerisen Cements Co.
INSANOL
 Westinghouse Electric Corp.
INSL
 Insl-x Co., Inc.
INSL-X
 Centro Research Laboratories, Inc.
INSTAGRAPH
 Bristol Co., The
INSTANSOLDER
 Cole Radio Works
INSTOMATIC
 Sanborn Co.
INSULAZED
 Magnetic Metals Co.
INSULCON
 Stupakoff Ceramic & Mfg. Co.
INSUROK
 The Richardson Co.
INTELIN
 Federal Telephone & Radio Corp.
INTERLINK
 Federal Telephone & Radio Corp.
INTER-VIEWER
 Larrimore Sales Co.
INTUC
 Insulating Tube Co.
INVAR "36"
 Carpenter Steel Co.
IONOTRON
 U. S. Radium Corp.
IRC
 International Resistance Co.
IRIS
 American Scientific Co.
IRN
 Williams & Co., C. K.
IRON OILITE
 Amplex Div.
 Chrysler Corp.
IRRADIOMETERS
 Sensitive Research Instrument Co.
IRV-O-LITE
 Irvington Varnish & Insulator Co.
IRV-O-VOLT
 Irvington Varnish & Insulator Co.
ISO-ELASTIC
 John Chatillon & Sons
ISOMODE
 M B Mfg. Co.
ISOPLANE
 Motorola, Inc.
ISO-Q
 Isolantite Mfg. Corp.

ISO-Q
 Motorola Inc.
ISO-RAMIC
 John Meck Industries
ISOTRON
 Consolidated Engineering Corp.
ITELITE
 I-T-E Circuit Breaker Co.
IVI-FLEX
 Irvington Varnish & Insulator Co.
IVORY X
 Pass & Seymour, Inc.
JACK KNIFE
 Radio Merchandise Sales
JACKLEAN
 Commercial Radio Sound Corp.
JADE POWDER
 Linick Chemical Co.
JAGABI
 Biddle Co., James G.
JECO
 Jarvis Electronics Corp.
JERKIT
 Littlefuse Inc.
JETFLEX
 Cook Electric Co.
JETLINE
 Carbonneau Industries, Inc.
JIFFY
 Minerallac Electric Co.
JK
 James Knights Co.
J. M.
 Paisley Products, Inc.
JOHN CRANE
 Crane Packing Co.
J-T
 Jefferson-Travis, Inc.
JUPITER GUM
 Paisley Products, Inc.
K 42 B
 Westinghouse Electric Corp.
"K" MONEL
 The International Nickel Co., Inc.
"KR" MONEL
 The International Nickel Co., Inc.
K-TRAN
 Automatic Mfg. Co.
KALWOOD
 Keller Products, Inc.
KANTARK
 Trico Fuse Mfg. Co.
KANTLINK
 Positive Lock Washer Co.
KANTLINK
 American Nut & Bolt Fastener Co.
KAPPA
 Wright & Sons Co., William E.
KARADIO
 Eckstein Radio & Television Co.
KARBOMET
 Driver-Harris Co.
KARMA
 Driver-Harris Co.
KARRO PAK
 Felt Products Mfg. Co.
KATHANODE
 Gould Storage Battery Corp.
KATOLIGHT
 Kato Engineering Co.
KAYGREY
 Rogers Corp.
KAYPAR
 Rogers Corp.
KAYROK
 Rogers Corp.
KELLER POLYGRAPH
 Associated Research, Inc.
KELEKET
 Kelly-Koett Mfg. Co., Inc., The
KEMGO
 Markem Machine Co.
KENEX
 Westinghouse Electric Corp.
KENITE
 Keystone Electronics Co.
KEN-RAD
 General Electric Co.
KETOS
 Crucible Steel Co. of America
KIC
 Kemet Division, Union Carbide & Carbon Corp.
KERATYM
 Horn Co., Inc., A. C.
K-H
 Khrohn-Hite Instrument Co.
KILOVOLT
 Caddell-Burns Mfg. Co.
KING
 Electric Heat Control Co., The
KING MARKWELL
 Markem Machine Co.
KINSETTE
 Kinsey Radio Mfg. Co.
KITCHENAIRE
 Radio Craftsmen
KITCHENOLA
 Radio Craftsmen
KLAMP-TITE
 I-T-E Circuit Breaker Co.
KLEER-VU
 American Kleer-Vu Plastics
KLIPLOK
 Trico Fuse Mfg. Co.
KLIPSCHORN
 Klipsch & Associates
KLIPXIT
 Vaco Products Co.

KLIXON
 Spencer Thermostat Co.
KLYDONOGRAPH
 Westinghouse Electric Corp.
KNIGHT
 Allied Radio Corp.
KNOCKOMETER
 Sperry Gyroscope Co.
KODAGRAPH
 Eastman Kodak Co.
KODAK
 Eastman Kodak Co.
KOHINOOR
 Waldes Kohinoor, Inc.
KOILED KORD
 Kellogg Switchboard & Supply Co.
KOLORDISK
 Central Div., Globe Union Inc.
KONAL
 Westinghouse Electric Corp.
KON-NEC-TOR
 General Electric Co.
KOOLOHM
 Sprague Electric Co.
KOTAL
 U. S. Rubber Co.
KOTRON
 Standard Arcturus Corp.
KOVAR
 Stupakoff Ceramic & Mfg. Co.
KOVAR
 Westinghouse Electric Corp.
KOVAR-ZIP
 Waldes Kohinoor, Inc.
KRISTON
 Goodrich Chemical Co., B. F.
KROME KOAT
 General Cement Mfg. Co.
KRYSTAL KOAT
 General Cement Mfg. Co.
K-TRAN
 Automatic Mfg. Corp.
KUPEC
 Centralab, Div. Globe Union, Inc.
K-V-O
 Sprague Electric Co.
KWIKFLUX
 Special Chemicals Co.
KWIK-KALL
 J. M. Loge Sound Engineers
"L" NICKEL
 The International Nickel Co., Inc.
LABVOLT
 Electrodyn Co.
LACKON
 Sun Dial Corp.
LAMCO
 La Magna Mfg. Co., Inc.
LAMICOID
 Mica Insulator Co.
LAMICOID
 Insulating Fabricators, Inc.
LAMICORES
 Magnetic Metals Co.
LAMIFORM
 Lamicoide Fabricators
LAMINAC
 American Cyanamid Co., Plastics Div.
LAMIPACKS
 Magnetic Metals Co.
LAMITEX
 Franklin Fibre-Lamitex Corp.
LAUXEIN
 Monsanto Chemical Co., Plastics Div.
LAUXITE
 Monsanto Chemical Co., Plastics Div.
LAVA
 Kirchberger & Co., Inc., M.
LAVITE
 Steward Mfg. Co., D. M.
LAVOLAIN
 Star Porcelain Co.
LAYTEX
 U. S. Rubber Co.,
LAZY-X
 Radiart Corp.
L-C CHECKER
 Aerovox Corp.
LEAK
 British Industries Corp.
LEARADIO
 Lear, Inc.
LEARAVIAN
 Lear, Inc.
LEARMATIC
 Lear, Inc.
LEATHAFLEX
 Paisley Products, Inc.
LECTURN
 J. M. Loge Sound Engineers
LECTROVISION
 Transvision, Inc.
LEDEX
 Leland, Inc., H.
LEESONA
 Universal Winding Co.
L-F
 Leibel-Flarsheim Co.
LEKTRO
 Conn Ltd., C. G.
LE-LAND
 Leland Electric Co.
LEROY
 Keuffel & Esser Co.
LEVEL
 White Rodgers Elec. Co.

LEXEL
 Dobeckmun Co., The
LIBERTY
 American Communications Corp.
"LH"
 Micro Switch Div.
LIFE-LIKE
 Arc Radio Corp.
LIFE-LINE
 Westinghouse Electric Corp.
LIFE-SAVER
 Cole Radio Works
LIFETIME
 Reynolds Metals Co.
LIGHT WATCHMAN
 Ripley Co., Inc.
LIGHTNING BUG
 Vibroplex Co., Inc.
LIGNOTITE
 Paisley Products, Inc.
LIGNOTOX
 Paisley Products, Inc.
LIMITROL
 Wheelco Instruments Co.
LIMITRON
 Arma Corp.
LIN-DE
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
LINDOX
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
LINE STARTER
 Westinghouse Electric Corp.
LINE-O-LIFE
 Carter Motor Co.
LITE-GAGE
 Photocon Research Products
LITE-O-STAT
 Viewlex, Inc.
LITTLE DEVIL
 Ohmite Mfg. Co.
LITTLEPHONE
 Doolittle Radio, Inc.
LITTLE GIANT
 Crucible Steel Co. of America
LOADBOND
 Catalin Corp. of America
LOAD CARRIERS
 Market Forge Co.
LOAD LIFT
 Market Forge Co.
LOAD-MOBILE
 Market Forge Co.
LOAD MOVERS
 Market Forge Co.
LOAD PAC
 Market Forge Co.
LOAD SKIDS
 Market Forge Co.
LOAD-VEYOR
 Market Forge Co.
LOALIN
 Catalin Corp. of America
LOCALITIES
 Fostoria Pressed Steel Corp.
LOCKETITE
 Locke Incorporated
LOCKSEAM
 Superior Tube Co.
LOCK-TITE
 Continental Screw Co.
LOCK-TITE
 Thomas & Betts Co., Inc.
LOGATEN
 Kalbfell Labs., Inc.
LOGE LECTERN
 Loge Sound Engineers, J. M.
LOGGER
 Audio Instrument Co.
LOHM
 Driver-Harris Co.
LOMU
 Magnetic Metals Co.
LOPOPHM
 Ward Leonard Electric Co.
L'TATRO
 Eckstein Radio & Television Co.
LUCERO
 Driver-Harris Co.
LUCITE
 E. I. du Pont de Nemours & Co., Inc.
LUG-CLIP
 Littelfuse, Inc.
LUKENWELD
 Lukens Steel Co.
LUMAPANE
 Celanese Corp. of America
LUMARITH
 Celanese Corp. of America
LUMETRON
 Photovolt Corp.
LUSTERIZED
 American Electric Cable Co.
LUSTERLAC
 American Electric Cable Co.
LUSTREX
 Monsanto Chemical Co.
 Plastics Div.
LUSTROM
 Monsanto Chemical Co.
 Plastics Div.
LUXATHERM
 Branston Electric Mfg. Co.
LUXIFLUX
 Special Chemicals Co.

LUXOMETER
 Electronic Mechanical Products Co.
LUXTAR
 Viewlex, Inc.
LUXTRON
 Bradley Labs., Inc.
LYNN
 Vaco Products Co.
LYRIC
 Rauland-Borg Corp.
LYT-L-TUNER
 S. M. A. Co.
MAESTRO
 Reeves Soundcraft Corp.
MAFORCO
 Market Forge Co.
MAGIC DOOR
 Stanley Works, The
MAGICORE
 Crowley & Co., Inc., Henry L.
MAGICTONE
 Radio Development & Research Co.
MAGIC WAND
 Ward Products Corp, Div. of The Gabriel Co.
MAGMOTOR
 Carter Motor Co.
MAGNAC
 Magnetic Devices, Inc.
MAGNATELE
 Electro Engineering & Mfg. Co.
MAGNATONE
 Magna Electronics Co.
MAGNECORDER
 Magnecord, Inc.
MAGNEMATIC
 Amplifier Corp. of America
MAGNEMUSE
 Amplifier Corp. of America
MAGNERAMA
 Amplifier Corp. of America
MAGNERASER
 Amplifier Corp. of America
MAGNERIBBON
 Amplifier Corp. of America
MAGNESCOPE
 Amplifier Corp. of America
MAGNESONIC
 Sound Recorder and Reproducer Corp.
MAGNESYN
 Eclipse-Pioneer Div.
 Bendix Aviation Corp.
MAGNETAPE
 Amplifier Corp. of America
MAGNETONE
 Brush Development Company, The
MAGNETRONIC
 Cook Electric Co.
MAGNETTE
 Heinemann Electric Co.
MAGNETWIN
 Amplifier Corp. of America
MAGNILASTIC
 Cook Electric Co.
MAGNISET
 Bristol Co., The
MAGNO
 Driver-Harris Co.
MAGNORITE
 Norton Co.
MAIL-A-VOICE
 Brush Development Co.
MALTESE
 Bache & Co., Semon
MARFORCO
 Market Forge Co.
MARINERS PATHFINDER
 Raytheon Mfg. Co.
MARK-TIME
 Rhodes Inc., M. H.
MARR
 Rattan Mfg. Co., The
MASCO
 Simpson Mfg. Co., Inc., Mark
MASTERLOUIT
 Kellogg Switchboard & Supply Co.
MASTERPHONE
 Kellogg Switchboard & Supply Co.
MASTERPRO
 Rek-O-Kut Co.
MATSURF
 Arkwright Finishing Co.
MAXIMAR
 General Electric X-Ray Corp.
MAXMIXER
 Special Products Co.
MAXISCOPE
 General Electric X-Ray Corp.
M. B. C.
 Ray-O-Vac Co.
MCA
 Molding Corp. of America
MEASURAY
 Sheffield Corp.
MEASURTEST
 Marconi Instruments Ltd.
MECHANI-SEAL
 Fafnir Bearing Co.
MEDIQUARTZ
 Dallons Labs.
MEDISINE
 Dallons Labs.
MEDITHERM
 Dallons Labs.
MEFCO
 Production Engrg. Co.
MEG-METER
 Winslow Co., Inc., The

MEGA-MARKER
Kay Electric Co.

MEGA-MATCH
Kay Electric Co.

MEGA-NODE
Kay Electric Co.

MEGA-PIPPER
Kay Electric Co.

MEGA-PIX
Kay Electric Co.

MEGA-PULSER
Kay Electric Co.

MEGASTYRENE
Transradio Ltd.

MEGA-SWEEP
Kay Electric Co.

MEGALIGNER
Kay Electric Co.

MEGALYZER
Kay Electric Co.

MEGALYZER JR.
Kay Electric Co.

MEGATENNA
Kay Electric Co.

MEGAVAC
Central Scientific Co.

MEGA-X
Kay Electric Co.

MEGGER
Biddle Co., James G.

MEGOHMER
Sticht Co., Inc., Herman H.

MEG-O-MAX
Sprague Electric Co.

MEGOTONE
Aim Industries

MEISSNER
Maguire Industries

MELMAC
American Cyanamid Co., Plastic Div.

MELODISC
Home Recording Products Corp.

MELPAK
Melpar, Inc.

MEMCO
Maryland Electronic Mfg. Corp.

MEMOBELT
Dictaphone Corp.

MERCTRON
Ebert Electronics Corp.

MERCU-TROL
Mack Electrical Devices, Inc.

MERCURY
Kemlite Labs.

MERCURY
Vulcan Electric Co.

MERCURYSTAT
Westinghouse Electric Corp.

MERITONE
Autocrat Radio Co.

MERITONE
American Laubscher Corp.

MERITUNE
Polytech Devices, Inc.

MEROLA
Crosley Corp.

MERRYMAKER
Crosley Corp.

METAL MIKE
Sperry Gyroscope Co.
Div. of the Sperry Corp.

METAL SHIELDED WIRE
Uniform Tubes

METALASTIC
Cook Electric Co.

METALITE
Ashtron Corp.

METALIX
North American Phillips Co., Inc.

METALSEAL
Brush Development Company, The

METAMETER
Bristol Co., The

METAPHONE
Bristol Co., The

METAVANE
Bristol Co., The

METCLAD
I-T-E Circuit Breaker Co.

METERMAX
Leeds & Northrup Co.

METEROL
Automatic Temperature Control Co.

METEX
Metal Textile Corp.

METL-CAN
Pyramid Electric Co.

MET-L-FLEX
Robinson Aviation, Inc.

METRO-LITE
Viewlex, Inc.

METRONOMA
Crystal Research Labs, Inc.

METROSCOPE
Photocon Research Products

METROTHERM
General Controls Co.

MIC
Molded Insulation Co.
Aircraft Control Div.

MICABOND
Continental Diamond Fibre Co.

MICA-GLAS
National Electric Coil Co.

MICANITE
Mica Insulator Co.

MICARTA
Westinghouse Electric Corp.

MICO
Mica Insulator Co.

MICRO
New Hampshire Ball Bearings

MICROACT
Bristol Co., The

MICRODISC
Wagner Recorder Mfg. Corp.

MICRODRILL
Teletronics Laboratory, Inc.

MICRODYNE
Audak Co.

MICROFLASH
General Radio Co.

MICROFLEX
Eagle Signal Corp.

MICROLINE
Sperry Gyroscope Co.

MICRO-MATCH
Jones Electronics Co., M. C.

MICROMAX
Leeds & Northrup Co.

MICRO-MIKER
Kalbfell Labs., Inc.

MICROMOTORS
Redmond Co., Inc.

MICROPOSITIONER
Barber-Colman Co.

MICRO-POT
Gibbs Div.
George W. Borg Corp.

MICRO-PULSER
Kay Electric Co.

MICROSEN
Manning, Maxwell & Moore, Inc.

MICROSIL
Magnetic Metals Co.

MICROTHERM
Barber-Colman Co.

MICROTHERM
Raytheon Mfg. Co.

MICROTORQUE
Giannini & Co., Inc.

MICRO-TROLLER
Westinghouse Electric Corp.

MICROVAC
Stokes Machine Co., F. J.

MICROVOLT
Ferris Instrument Co.

MICRO WEAVE
Holliston Mills Inc., The

MIDGET
Sprague Electric Co.

MIDGETROL
P. R. Mallory & Co., Inc.

MIDOHM
Driver-Harris Co.

MIDWAY
Cardwell Mfg. Corp., Allen D.

MIGHTY MIDGET
Sperman Metal Specialties

MIJAKON
Fast & Co., John E.

MIKASUB
Fast & Co., John E.

MIKE
Cornell-Dubilier Electric Corp.

MILCO
Miller Mfg. Co., M. A.

MILLISEC RELAY
Stevens-Arnold, Inc.

MINALITE
Westinghouse Electric Corp.

MINATROL
Westinghouse Electric Corp.

MINERALIGHT
Ultra-Violet Products, Inc.

MINIGRAPH
Westinghouse Electric Corp.

MINI-AMP
Industrial Devices, Inc.

MINI MAX
National Carbon Division,
Union Carbide & Carbon Corp.

MINISCALER
Atomic Instrument Co.

MINI-SHIELD
Staver Co., Inc.

MINI-SIGNAL
Premier Crystal Labs., Inc.

MINI-SPRING
Staver Co., Inc.

MINITAPE
Stancil-Hoffman Corp.

MINI-VOLT
Industrial Devices, Inc.

MINSTREL
Crosley Corp.

MINSUA
Keuffel & Esser Co.

MINUTE MAN
Ward Products Corp.,
Div. of The Gabriel Co.

MIRACLE POINT
Gerett Corp., M. A.

MIRROR TONE
Meck Industries, John
M. L. S.
Paisley Products Inc.

MODIFIED HILO
Driver Co., Wilbur B.

MODUFLOW
Minneapolis-Honeywell Regulator Co.

MODULITE
Berndt-Bach, Inc.

MODU-WAVE
Sciaky Bros., Inc.

MOLDARTA
Westinghouse Electric Corp.

MOLDITE
National Moldite Co.

MOLDLOCK
American Brass Co.

MOLDTEX
Racon Electric Co.

MOLD-TITE
United Condenser Corp.

MOLECULE SQUEEZER
Robinette Co., W. C.

MONEL
The International Nickel Co., Inc.

MONISEAL
Magnetic Metals Co.

MONISEAL "444"
Carpenter Steel Co.

MON-KEY
Electric Eye Equipment Co.

MONOBLOCK
Winchester Electronics Co.

MONOCOIL
Elliott Mfg. Co.

MONOBAR
Tibbetts Industries, Inc.

MONODRUM
Gorrell & Gorrell

MONOMOTORS
Redmond Co., Inc.

MONO-PAC
Beltone Hearing Aid Co.

MONOPHONE
Automatic Electric Co.

MONOPLEX
Shure Brothers, Inc.

MONOSET
Bristol Co., The

MONOSET
Telex, Inc.

MONOTUBE
Tuttle & Kift

MONTE CARLO
Televista Corp. of America

MOODY-KIT
Phonograph Needle Mfg. Co., Inc.

MORTEX
Moore Co., Howard J.

MOTO-MITE
Globe Industries

MOTORLITE
Ward Leonard Electric Co.

MOTOR WATCHMAN
Westinghouse Electric Corp.

MOT-O-TROL
Westinghouse Electric Corp.

MOTRON
Robinette Co., W. C.

MPB
Miniature Precision Bearings, Inc.

M-SCOPE
Fisher Research Lab.

MUCHROHM
Magnetic Metals Co.

MUL-TEL
Brach Mfg. Corp.

MUL-TV
Jerrold Electronics Corp.

MULTI-ANALYST
Electronic Instrument Co., Inc.

MULTIBREAKER
Square D Co.

MULTICARDIOTRON
Electro-Physical Labs.

MULTICORE
British Industries Corp.

MULTICOUNTER
Atomic Instrument Co.

MULTICOUPLER
Amy, Aceves & King, Inc.

MULTIFAX
Western Union Telegraph Co.

MULTIFLEX
Eagle Signal Corp.

MULTI-LOW-RANGE
Dillion & Co., Inc., W. C.

MULTI-MASTER
Precision Apparatus Co.

MULTIMET
Haynes Stellite Co.
Unit of Union Carbide & Carbon Corp.

MULTIMETER
Rawson Electrical Instrument Co.

MULTIPLANE
Lord Mfg. Co.

MULTIPLE SHOT
Gits Molding Corp.

MULTIPOT
Ford Engineering Co.

MULTIPOWER
E. A. Mvers & Sons

MULTI-RECTIFIER
Green Electric Co., Inc.

MULTISCALER
Atomic Instrument Co.

MULTISCOPE
Acme Telectronic Div.
NEA Service Inc.

MULTI-SWAGE PROCESS
Bead Chain Mfg. Co., The

MULTITPOL
Ward Leonard Electric Co.

MULTIVIDEO
Industrial Television, Inc.

MULTIVISION
Industrial Television, Inc.

MULTIVISION SCREEN
 House of Television, Inc.
MULTIVOLT
 Ohmite Mfg. Co.
MUSICON
 Lekas Mfg. Co.
MUSIKING
 Symphony Radio & Television Corp.
MYCALEX 400
 Mycalex Corp. of America
MYCALEX 410
 Mycalex Corp. of America
MYCALEX K
 Mycalex Corp. of America
MYKAPLAST
 United Condenser Corp.
MYKROY
 Electronic Mechanics, Inc.
MYSTAPHONE
 Taybern Equipment Co.
MYSTERY
 Taybern Equipment Co.
MYVACENE-S
 Distillation Products Industries
MYVAWAX-S
 Distillation Products Industries
 999 "PLUS"
 Handy & Harman
NA-ALD
 Alden Products Co.
NALCO
 National Lead Co.
NALCO
 North American Electric Lamp Co.
NAMCO
 National Acme Co.
NASAT
 Westinghouse Electric Corp.
NATIONAL
 Valco Mfg. Co.
NATVAR
 National Varnished Products Corp.
NAUGAHYDE
 U. S. Rubber Co.
NEILLITE
 Watertown Mfg. Co.
NEMCO
 National Electronic Mfg. Co.
N. E. M. S.
 National Electrical Machine Shops, Inc.
NEOLAY
 U. S. Rubber Co.
NE-O-LITE
 General Cement Mfg. Co.
NEPEC
 Centralab Div.
 Globe Union Inc.
NEUTRASEAL
 Cook Electric Co.
NEVERSLIP
 Philadelphia Steel & Wire Co.
NEYDIUM
 Ney Co., J. M.
NEY-ORO
 Ney Co., J. M.
NICAD
 Nickel Cadmium Battery Corp.
NICHROME
 Driver-Harris Co.
NILSTAIN
 Driver Co., Wilbur B.
NILVAR
 Driver-Harris Co.
NIREX
 Driver-Harris Co.
NITE-T-LITE
 Littlefuse, Inc.
NITRON
 Monsanto Chemical Co.
 Plastics Div.
NOARK
 Federal Electric Products Co.
NOBATRON
 Sorensen & Co., Inc.
NOBLELOY
 Continental Carbon, Inc.
NOFLAME-COR
 Cornish Wire Co.
NO FOME
 L & R Mfg. Co.
NOISERASER
 Minnesota Electronics Corp.
NOKORODE
 Dunton Co., D. W., The
NOMU
 Magnetic Metals Co.
NON-LINK
 Positive Lock Washer Co.
NO-OX
 Walter L. Schott Co.
NORBIDE
 Norton Co.
NORELCO
 North American Philips Co., Inc.
NORLOC
 Norton Labs., Inc.
NORTHEAST
 Delco Appliance Div.
 General Motors Corp.
NTC
 Keystone Carbon Co., Inc.
N. U.
 National Union Radio Corp.
NU-BLAC
 Star Porcelain Co.
NUCAMITE
 National Union Radio Corp.
NUCLEOMETER
 Radiation Counter Laboratories, Inc.
NUKEMITE
 Nukem Products Corp.
NU PAMITE
 National Union Radio Corp.
NWL
 Nothelfer Winding Labs.
NYLOK
 Production Engrg. Co.
NYLON
 du Pont de Nemours & Co., Inc., E. I.
NYLONITE
 Plastic Wire & Cable Corp.
NYLON-ZIP
 Walides Kohinoor Inc.
OAKWOOD
 Osborn Products
OCTOIL-S
 Distillation Products Industries
OHIOHM
 Ohio Carbon Co.
OHMAX
 Driver-Harris Co.
OHMOID
 Wilmington Fibre Specialty Co.
OHM-SPUN
 States Co.
OILDAG
 Acheson Colloids Corp.
OILITE
 Amplex Division
 Chrysler Corp.
OKOBESTOS
 Okonite Co.
OKOGLASS
 Okonite Co.
OKOLENE
 Okonite Co.
OKOLITE
 Okonite Co.
OKOPRENE
 Okonite Co.
OKOSEAL
 Okonite Co.
1000 SPAR
 Standard Varnish Works
OPTIMATIC
 Minneapolis-Honeywell Regulator Co.
OPTIMIKE
 Instrument Development Laboratories, Inc.
OPTO-MATIC
 Trico Fuse Mfg. Co.
ORACO
 Oak Ridge Antennas Div. of
 Video Television Inc.
ORIENTER
 Lear, Inc.
ORTHOCHROM
 Rohm & Haas Co.
ORTHOLITE
 Rohm & Haas Co.
ORTHOSONIC
 Electronic Labs., Inc.
OSAGE
 Linick Chemical Co.
OSISO
 Westinghouse Electric Corp.
OSCILLO-RECORD
 Fairchild Camera & Instrument Corp.
OSSCO
 Omaha Scientific Supply Co.
OUNCER
 United Transformer Corp.
OXYHEMOGRAPH
 Photocon Research Products
OXWELD
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
OZALID
 General Aniline & Film Corp., Ozalid Div.
PAISOL
 Paisley Products, Inc.
PAISTEX
 Paisley Products, Inc.
PAISTIC
 Paisley Products, Inc.
PAISTICK
 Paisley Products, Inc.
PALINEY
 Ney Co., J. M.
PAL
 Palnut Co., Inc.
PAMARCO
 Paper Machinery & Research, Inc.
PANADAPTOR
 Panoramic Radio Products, Inc.
PANALYZOR
 Panoramic Radio Products, Inc.
PANDEX
 Westinghouse Electric Corp.
PANELTONE
 Ansley Radio Corp.
PANELYTE
 St. Regis Paper Co., Panelyte Div.
PANORAMOSCOPE
 Panoramic Radio Products, Inc.
PANTO
 Preis Engraving Machine Co.
PANT-O-JECTOR
 Engineers Specialties Div.
 Universal Engraving & Colorplate Co.
PANT-O-SCRIBER
 Engineers Specialties Div. Universal Engraving
 & Colorplate Co.
PAPERITE
 Acme Wire Co.
PARACORE
 U. S. Rubber Co.
PARA-FLUX
 Radio Music Corp.
PARAGON
 Keuffel & Esser Co.
PARAPLEX
 Rohm & Haas Co.
PARCO LUBRITE
 Parker Rust Proof Co.
PARISIANOID
 Parisian Novelty Co.
PASSMOUR
 Pass & Seymour, Inc.
PATHFINDER
 Submarine Signal Div.,
 Raytheon Mfg. Co.
PATTERSON LUMINESCENT
 du Pont de Nemours & Co., Inc., E. I.
P. E. C.
 Centralab Div.
 Globe Union Inc.
P. E. C.
 Precision Electronic Components Reg'd.
PECO
 Pacific Electriccord Co.
PEE-WEE
 Mueller Electric Co.
PEERLESS
 Altec Lansing Corp.
PEERLESS
 National Vulcanized Fibre Co.
PEL-X
 Holliston Mills, Inc., The
PEM
 Penn Engineering & Mfg. Corp.
PENACOLITE
 Koppers Co., Inc.
PERFECT-O-CUT
 Tablet & Ticket Co.
PERKINS
 Westinghouse Electric Corp.
PERMACEL
 Industrial Tape Corp.
PERMACELL
 U. S. Rubber Co.
PERMADINE
 American Chemical Paint Co.
PERMAKAY
 Motorola, Inc.
PERMALITIES
 Universal Microphone Co.
PERMALLOY
 Arnold Engineering Co.
PERMANITE
 Foote Mineral Co.
PERMANITE
 I-T-E Circuit Breaker Co.
PERMA-POWER
 General Transformer Corp.
PERMAZINC
 Locke Incorporated
PERMENDUR
 Arnold Engineering Co.
PERMENORM
 Arnold Engineering Co.
PHANO
 Dixon Crucible Co., Joseph
PHAGSTRON
 Stolle Engineering & Mfg. Co.
PHASEFORMER
 Eastern Specialty Co.
PHENOCOTE
 Wirt Co.
PHENOFLEX
 Dielectric Materials Co.
PHENOL FIBRE
 Taylor Fibre Co.
PHENOLITE
 National Vulcanized Fibre Co.
PHILHARMONIC
 Espey Mfg. Co., Inc.
PHIL-TROL
 Phillips Control Corp.
PHONOPHRAGMS
 Magnetic Metals Co.
PHOS-COPPER
 Westinghouse Electric Corp.
PHOTACT
 Keuffel & Esser Co.
PHOTELOMETER
 Central Scientific Co.
PHOTO-ARC
 Peerless Photo Products
PHOTOLUX
 Westinghouse Electric Corp.
PHOTOPHONE
 Radio Corporation of America
PHOTO-TROLLER
 Westinghouse Electric Corp.
PHOTOTRONIC
 Weston Electrical Instrument Corp.
PHOTOX
 Westinghouse Electric Corp.
PHOTRONIC
 Weston Electrical Instrument Co.
PICTURE-PERFECT
 Louis Bros.
PIEZO-RAY
 Commercial Research Labs., Inc.
PILOTONE
 Pilot Radio Corp.
PILOTROL
 Bailey Meter Co.
PINCOR
 Pioneer Gen-E-Motor Corp.

P-K

Parker Kalon Corp.
PLASKON ALKYD
 Plaskon Div., Libbey-Owens-Ford Glass Co.
PLAST-CORIRON
 Plastics Metals Division
 The National Radiator Co.
PLASTACELE
 du Pont de Nemours & Co., Inc., E. I.
PLASTICLEAN
 House of Television
PLASTICON
 Plastic Wire & Cable Corp.
PLASTI-GRIP
 Aircraft-Marine Products, Inc.
PLASTIMOLD
 Emerson Radio & Phonograph Corp.
PLAST-IRON
 Plastics Metals Division
 National Radiator Co., The
PLASTITE
 Whitney Blake Co.
PLAST-MAGNETITE
 Plastic Metals Division
 National Radiator Co., The
PLAST-MANGANESE
 Plastic Metals Division
 National Radiator Co., The
PLAST-NICKEL
 Plastic Metals Division
 National Radiator Co., The
PLAST-O-DIP
 Aeroil Products Co.
PLASTOK
 Richardson Co.
PLASTO PAK
 Standard Varnish Works
PLAST-SILICON
 Plastic Metals Division
 National Radiator Co., The
PLAST-SPONGE
 Plastic Metals Division
 National Radiator Co., The
PLAST-STEEL
 Plastic Metals Division
 National Radiator Co., The
PLATO
 Raytheon Mfg. Co.
PLAX PAK
 Plax Corp.
PLAYBACK
 Reeves Soundcraft Corp.
PLAYBOY
 Carbonneau Industries, Inc.
PLAYBOY
 Crosley Corp.
PLAYSALL
 Carbonneau Industries, Inc.
PLAYTIME
 Crosley Corp.
PLENTI-POWER
 Westinghouse Electric Corp.
PLEXENE
 Pohn & Haas Co.
PLEXICON
 Erie Resistor Corp.
PLEXIGLAS
 Rohm & Haas Co.
PLIABOOK
 Paisley Products, Inc.
PLIASTIC
 Paisley Products, Inc.
PLIATAB
 Paisley Products, Inc.
PLIOBOND
 Goodyear Tire & Rubber Co.
PLIOGRIP
 Goodyear Tire & Rubber Co.
PLIOLITE
 Goodyear Tire & Rubber Co.
PLIOTHERM
 Goodyear Tire & Rubber Co.
PLIO-TUF
 Goodyear Tire & Rubber Co.
PLIOVIC
 Goodyear Tire & Rubber Co.
PLYA-SEAL
 Fafnir Bearing Co.
PLYMOUTH
 Meck Industries, John
PLYOPHEN
 Reichhold Chemicals, Inc.
PN
 Brush Development Co.
POCKETSCOPE
 Waterman Products Co., Inc.
POLAROID
 Pioneer Scientific Corp.
POLATENNA
 Capehart-Farnsworth Corp.
POLATRON
 Capehart-Farnsworth Corp.
POLECTRON
 General Aniline & Film Corp.
POLICARB
 Driver Co., Wilbur B.
POLIMERATOR
 Short Wave Plastic Forming Co.
POLINEAR RECORDER
 Sound Apparatus Co.
POLYCO
 Polymer Corp., The
POLYFLEX
 Plax Corp.
POLYMET
 Cosmic Radio Corp.

POLY-PENDANCE
 Standard Transformer Corp.
POLYPHONIC SOUND
 Universal Broadcast Equipment Corp.
POLY PLASTIC
 Standard Varnish Works
POLYRANGER
 Sensitive Research Instrument Corp.
POLYTHENE
 du Pont de Nemours & Co., Inc., E. I.
POLY THERM
 Dielectric Materials Co.
POLY-VISO
 Sanborn Co.
POLYWELD
 American Phenolic Corp.
PORTA-FLEXER
 Miskella Infra-Red Co.
PORTA-POWER
 General Transformer Corp.
PORTAPOWER
 Electronic Labs., Inc.
PORTENTIOTROLS
 Wheelco Instruments Co.
PORT-O-REEL
 Industrial Electrical Works
PORTRONIC
 Photographic Products, Inc.
POTENTIOTIALS
 Wheelco Instruments Co.
POST-LITE
 Littelfuse, Inc.
POWDERMET
 Powdered Metal Products Corp.
POWDIRON
 Bound Brook Oil-Less Bearing Co.
POWER BOOSTER
 McColpin-Christie Corp.
POWEREEL
 Industrial Electrical Works
POWER-FLEX
 Dumore Co., The
POWER STREAK
 American Electric Cable Co.
POWER VOICE
 Taybern Equipment Co.
POWERSTAT
 Superior Electric Co.
POWMINCO
 Powhatan Mining Co.
POWRMIKE
 University Loudspeakers, Inc.
PRECEPTRON
 Sonotone Corp.
PRECIPITRON
 Westinghouse Electric Corp.
PRECISIONAIRE
 Sheffield Corp.
PRECISIONER
 Maico Co., Inc.
PRECISION-GAUGED
 Precision Products Co.
PREGWOOD
 Formica Insulation Co.
PREMIER-TONE
 Premier Metal Etching Co.
PRESET
 Bristol Co., The
PRESSOVAC
 Central Scientific Co.
PresSURE
 Buchanan Electrical Products Corp.
PRESSUREGRAPH
 Electro Products Labs., Inc.
PRESTEEL
 Worcester Pressed Steel Co.
PRESTITE
 Westinghouse Electric Corp.
PREST-O-LITE
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
PREST-O-WELD
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
PRESSWOOD
 Masonite Corp.
PESTROL
 Gerett Corp., M. A.
PRIVATE EYE
 Television Utilities Corp.
PRMCO
 Ports Mfg. Co.
PRODELIN
 Product Development Co., Inc.
PROGAR
 Langevin Co., Inc.
PROKAR
 Sprague Electric Co.
PROJECTALL
 Tressell Television Productions, Inc.
PROMATIC
 General Control Company
PROMCO
 Progressive Mfg. Co.
PROPELLAIR
 Robbins & Myers, Inc.
PROTECTOGLD
 Minneapolis-Honeywell Regulator Co.
PROTECTORELAY
 Minneapolis-Honeywell Regulator Co.
PROTECTRON
 Brinnell Company, The
PROTEGRAM
 North American Philips Co., Inc.
PROVAC
 Electronic Designs, Inc.

PRYSTAL
 Catalin Corp. of America
P. S.
 Motorola, Inc.
P & S
 Pass & Seymour, Inc.
PURATONE
 Brach Mfg. Corp.
PUREBON
 Pure Carbon Co.
PURIFIL
 Electric Eye Equipment Co.
PUROX
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
PWC
 Plastic Wire & Cable Corp.
PYGMY
 Vulcan Electric Co.
PYRALIN
 du Pont de Nemours & Co., Inc., E. I.
PYKEX
 Corning Glass Works
PYROCON
 Illinois Testing Labs., Inc.
PYRODYN
 Skydyne, Inc.
PYROLANCE
 Illinois Testing Labs., Inc.
PYROMASTER
 Bristol Co., The
PYROMATIC
 Welwyn Electronic Components, Inc.
PYROTETER
 Electro-Tech Equipment Co.
PYROTIRON
 Bailey Meter Co.
PYROVAC
 Eitel-McCullough, Inc.
Q-LACE
 Guthman Inc., Edwin I.
Q-MAX
 Communication Prods. Co., Inc.
QUAD-EX
 Telrex Inc.
QUADREX
 Westinghouse Electric Corp.
QUADRILINE
 Radio Engineering Labs., Inc.
QUADROCONDEX
 Westinghouse Electric Corp.
QUANTOMETERS
 Applied Research Laboratories
QUARTZ Q
 Millen Mfg. Co., James
QUELARC
 Pyle-National Co.
QUICKLAG
 Westinghouse Electric Corp.
QUICK-LOCK
 Simmons Fastener Corp.
QUIETONE
 Cornell-Dubilier Electric Corp.
QUIK-CALL
 Motorola, Inc.
QUIK-LABELS
 Brady Co., W. H.
QUIK-SHOT
 Kemode Mfg. Co.
QUINORGO
 Johns-Manville Sales Corp.
QUINTERRA
 Johns-Manville Sales Corp.
"R" MONEL
 International Nickel Co., Inc., The
RACON BROADBAND
 Racon Electric Co.
RAD-A-COR
 Magnetic Core Corp.
RADAIR
 Bassett Inc., Rex
RADALARM
 Communications Co., Inc.
RADAMETER
 Raytheon Mfg. Co.
RADARANGE
 Raytheon Mfg. Co.
RADELIN
 U. S. Radium Corp.
RADEX
 Boston Insulated Wire & Cable Co.
RADIOCARB A
 Driver Co., Wilbur B.
RADIOEAR
 Myers & Sons, E. A.
RADIO INDUCTOGRAPH
 Inductograph Lab.
RADIOHM
 Driver-Harris Co.
RADIOHM
 Centralab Div.
 Globe Union, Inc.
RADIOLA
 Radio Corp. of America
RADIOMARINE
 Radio Corp. of America
RADIO-PILOT
 Fisher Research Lab.
RADIOSURG
 Electronic Equipment & Instrument Co.
RADIO THERM
 Westinghouse Electric Corp.
RADIOTRON
 Radio Corp. of America
RAD-O-RECORDER
 Makam, Inc.

RADOT
Press Wireless Mfg. Co., Inc.

RAILITE
Amplex Div.
Chrysler Corp.

RAKSCOPE
Waterman Products Co., Inc.

RANCOSTAT
Ranco, Inc.

RANGE LUGS
Frankel Connector Co.

RANGE MASTER
Bradshaw Instruments Co.

RANGER
Electronic Specialty Co.

RANGER
J. F. D. Mfg. Co.

RANGER
Westinghouse Electric Corp.

RANGERECD
Rangertone, Inc.

RANGEREORDER
Rangertone, Inc.

RANGESPLICES
Frankel Connector Co.

RANGETAPS
Frankel Connector Co.

RATOSIGHTS
Fisher & Porter Co.

RATOSLEEVEES
Fisher & Porter Co.

RATOTRONIC
Fisher & Porter Co.

RAYCHRONIX
Radioactive Products, Inc.

RAYCHRONOMETER
Radioactive Products, Inc.

RAY-DEC
Frederic Flader, Inc.

RAYDIST
Hastings Instrument Co.

RAYFUSER
Radioactive Products, Inc.

RAYMERSON
Trumbull Electric Mfg. Co.

RAYOFLEX
Schott Co., Walter L.

RAYONIC
Waterman Products Co., Inc.

RAYSONDE
Friez Instrument Div.
Bendix Aviation Corp.

PAYPHOTO
Times Facsimile Corp.

RAYTHEON-BELMONT
Belmont Radio Co., Div. Raytheon Mfg. Co.

RAYTHERM
Raytheon Mfg. Co.

RAY-X
Raytheon Mfg. Co.

R B & W
Russell, Burdshall & Ward Bolt and Nut Co.

R/C
Radio Condenser Co.

RCA
Radio Corp. of America

RCA VICTOR
Radio Corp. of America

REACTRON
United Condenser Corp.

READO
Crosley Corp.

RECEPTRON
Howard Mfg. Corp.

PE-CIPK-IT
Heinemann Electric Co.

RECO
Rectifier Engineering Co.

RECO
Reynolds Electric Co.

RECORDALL
Miles Reproducer Co., Inc.

RECORDIO
Wilcox-Gay Corp.

RECORDION
Wilcox-Gay Corp.

RECORDIOPOINT
Wilcox-Gay Corp.

RECORDISES
Recordisc Corp.

RECORDO
Wilcox-Gay Corp.

RE-CORD-O-FONE
Bell Sound Systems, Inc.

RECTICHARGER
Raytheon Mfg. Co.

RECTIFILTER
Raytheon Mfg. Co.

RECTIGON
Westinghouse Electric Corp.

RECTOMATIC
Westinghouse Electric Corp.

RECTOPLATER
Mallory & Co., Inc., P. R.

RECTOSTARTER
McColpin-Christie Corp.

RECTOX
Westinghouse Electric Corp.

RECTROL
Electro-Tech Equipment Co.

REDFLASH
Vaco Products Co.

RED HEAD
Girdler Corp.
Thermex Div.

RED LETTER
Ruby Chemical Co.

RED SEAL
Radio Corporation of America

RED STREAK
Brown-Bridge Mills, Inc.

REFLECTAR
Back Video Corp., F. G.

REFRACTALOY
Westinghouse Electric Corp.

REGOHM
Electric Regulator Corp.

REGULITE
Ward Leonard Electric Co.

REKORDER
Gorrell & Gorrell

REL
Radio Engineering Labs., Inc.

RELATROL
Automatic Temperature Control Co.

RELAYMATIC
Kellogg Switchboard & Supply Co.

RELIO
U. S. Rubber Co.

REMACO
Clarkstan Corp.

REMALLOY
Arnold Engineering Co.

REMBRANDT
Remington Radio Corp.

REMOTE-O-CABLE
J. F. D. Mfg. Co.

REN
Nebel Lab., R. E.

REPEATER
Kemlite Labs.

RESIGUM
Paisley Products Inc.

RESIMENE
Monsanto Chemical Co.
Plastics Div.

RESIN-FIVE
Kester Solder Co.

RESINITE
Precision Paper Tube Co.

RESINOX
Monsanto Chemical Co.
Plastics Div.

REST-RAP
Paisley Products Inc.

RESISTOL
Colyver Insulated Wire Co.

RETRAX
Aviometer Div. of Roanwell Corp.

REVEPSIT
Rattan Mfg. Co., The

REX
Crucible Steel Co. of America

REX
Shure Brothers, Inc.

REXFLEX
Chicago Metal Hose Corp.

REXON
Hamilton Kent Mfg. Co., Inc.

REXTUBE
Chicago Metal Hose Corp.

REXVANE
Westinghouse Electric Corp.

REXWELD
Chicago Metal Hose Corp.

REZISTAL
Crucible Steel Co. of America

RHINOBESTOS
Westinghouse Electric Corp.

RHOMAX
Magnetic Metals Co.

RHOMU
Magnetic Metals Co.

RHONITE
Rohm & Haas Co.

RIB FLEX
Ward Leonard Electric Co.

RIBOHM
Ward Leonard Electric Co.

RICHELAIN
Richardson Co.

RIGFAST
Oak Ridge Products Mfg. Div. of Video
Television, Inc.

RINKOLIN
Standard Varnish Works

R. I. P.
Westinghouse Electric Corp.

RITEOHM
Ohmite Mfg. Co.

R & M
Robbins & Myers, Inc.

R M B
Landis & Gyr, Inc.

RME
Radio Mfg. Engineers, Inc.

ROBOLITES
Universal Microphone Co.

ROBOTROL
Reliance Automatic Lighting Co.

ROGER
Aviometer Div. of Roanwell Corp.

ROL-TOP
Boots Aircraft Nut Corp.

POLLPINS
Elastic Stop Nut Corp.

ROTABRAKE
Lear, Inc.

ROTALYZER
Kay Electric Co.

ROTA-TOWER
Easy-Up Tower Co.

ROTO-BEAM
Gordon Specialties Co.

ROTO BEAM
Kings Electronics Co.

ROTO-COUNT
Automatic Temperature Control Co., Inc.

ROTO-DISPLAY KING
Gale Dorothea Mechanisms

ROTO FORMER
Westinghouse Electric Corp.

ROTOMATIC
Johnson Co., E. F.

ROTOMOUNT
Premax Products Div.
Chisholm-Ryder, Inc.

ROTOTROL
Westinghouse Electric Corp.

ROTO-VISION
Illinois Wood Products Corp.

RO-TRAN
Rome Cable Corp.

ROYAL
General Lead Batteries Co.

ROYAL
U. S. Rubber Co.

ROYAL CORD
U. S. Rubber Co.

ROYAL GOLD
U. S. Rubber Co.

ROYAL JEWEL
Jensen Industries, Inc.

ROYAL MASTER
U. S. Rubber Co.

ROYALITE
U. S. Rubber Co.

R P C
Resistance Products Co.

R S M C
Radio Specialty Mfg. Co.

R T L
Peirce Wire Recorder Corp.

RUBALT
Hague & Co., Inc., Alfred

RUBCORD
U. S. Rubber Co.

RUB-EROK
Richardson Co.

RUBSEC
U. S. Rubber Co.

RUB-TEX
Richardson Co.

RUBYFLUID
Ruby Chemical Co.

RUCCO
Ruby Chemical Co.

RUF KOAT
General Cement Mfg. Co.

RUSH
Eraser Co., Inc.

R V
Clarkstan Corp.

RYERTEX
Ryerson & Son, Inc., Joseph T.

SAFE-T-PLUG
Littelfuse Inc.

SAFE-T-SPARKY
Littelfuse Inc.

SAFLEX
Square D Co.

SAFLEX
Monsanto Chemical Co.

SANACOUSTIC
Johns-Manville Sales Corp.

SANFORD-BENNET
Rubicon Co.

SARAN
Dow Chemical Co.

SAUTER TIME SWITCHES
Cramer Co., Inc., R. W.

SAV-A-SHAFT
National Union Radio Corp.

S/B
Vaco Products Co.

SCALE-O-MATIC
Technical Associates

SCHENCK
Ferner Co., R. Y.

SCOTCH TAPE
Minnesota Mining & Mfg. Co.

SCOTTIE
Remler Co., Ltd.

SEALDOHM
Daven Co.

SEALEX
General Ceramic & Steatite Corp.

SEALNUT
Radio Frequency Labs., Inc.

SEAL-O-FLANGE
Communication Prods. Co., Inc.

SEALSTIX
Central Scientific Co.

SEAMASTER
Dine & Co., Inc., F. E.

SELECTO-CALL
Federal Telephone & Radio Corp.

SELECT-O-PHONE
Kellogg Switchboard & Supply Co.

SELECTOVISION
Communication Measurements Lab. Inc.

SELECTRO-PLATERS
Green Electric Co., Inc.

SELETRON
Radio Receptor Co.

SELFLUBE
Keystone Carbon Co., Inc.

SEMCO
Stolle Engineering & Mfg. Co.

SEMS
Lamson & Sessions Co.

SENSATHERM
 Mercoid Corp.
SENSICON
 Motorola Inc.
SENSITROL
 Weston Electrical Instrument Corp.
SENSITRON
 Weston Electrical Instrument Corp.
SENTINEL
 Photobell Company
SENTINEL
 Westinghouse Electric Corp.
SEPIATONE
 Frederick Post Co.
SERRASOID
 Radio Engineering Labs., Inc.
SERVICE-MIKE
 Cornell-Dubilier Electric Corp.
SERVOBOARD
 Servo Corp. of America
SERVOFLIGHT
 Servo Corp. of America
SERVOGRAPH
 Fielden Electronics Inc.
SERVOGRAPH
 Servo-Tek Products Co.
SERVOSCOPE
 Servo Corp. of America
SERVOTHERM
 Servo Corp. of America.
SERVOTRON
 Raytheon Mfg. Co.
SERV-RITE
 Gordon Co., Claud S.
SHADOWCONTROL
 Autotron Co., The
SHADOWCOUNT
 Autotron Co., The
SHADOWMASTER
 Autotron Co., The
SHANNON GLOW
 Shannon Luminous Materials Co.
SHARP FOCUS TELEVISION
 Andrea Radio Corp.
SHELDON
 Jackson Industries, Inc.
SHUR GRIP
 Parker-Kalon Corp.
SHURITE
 J B T Instruments Inc.
SHURLOCK
 Pass & Seymour, Inc.
SIECO
 Sherman Industrial Electronics Co.
SIGHT METER
 Weston Electrical Instrument Co.
SIGNALINER
 Feiler Engineering Co.
SILANEAL
 Dow Corning Corp.
SILASTIC
 Dow Corning Corp.
SILCAZ
 Electro Metallurgical Co.
 Unit of Union Carbide & Carbon Corp.
SILENTBLOC
 The General Tire & Rubber Co.
 Silentbloc Div.
SILENT SENTINEL
 Westinghouse Electric Corp.
SILFLEX
 Variflex Corp.
SIL-FOS
 Handy & Harman
SILKENITE
 Acme Wire Co.
SILVALOY
 Linde Air Products Co.
 Unit of Union Carbide & Carbon Corp.
SILVERCOTE
 Little Falls Alloys, Inc.
SILVERMIKE
 Condenser Corp. of America
SILVER-Q
 Decimeter, Inc.
SILVERSTAT
 Westinghouse Electric Corp.
SILVERTONE
 Colonial Radio Corp.
SIMPAC
 Westinghouse Electric Corp.
SIMPLI-FLEX
 Radiart Corp., The
SIMPLYTROL
 Assembly Prods., Inc.
SIXTY
 Shure Brothers
SKAN
 G-M Laboratories
SKANASCOPE
 Skaneateles Mfg. Co., Inc.
SKL
 Spencer-Kennedy Labs., Inc.
SKORESIN
 Skoning Corp.
S. K. S.
 Paisley Products, Inc.
SKYFONE
 Hallicrafters Co.
SKYGUIDE
 Philco Corp.
SKY-KING
 J. F. D. Mfg. Co.
SKYPLY
 Skydyne, Inc.
SKY-WEIGHT
 Continental Electronics, Ltd.

SLIDEOHM
 Aerovox Corp.
SLIPSTICK
 Decimeter, Inc.
SLIPSYN
 Westinghouse Electric Corp.
SLO-BLO
 Littelfuse, Inc.
SMOKGAGE
 Ess Instrument Co.
SMUTBATH
 Special Chemicals Co.
SMZ
 Electro Metallurgical Co.
 Unit of Union Carbide & Carbon Corp.
SNAP-LOCK
 National Acme Co.
SNAP-LOCK ANTENNA
 Oak Ridge Products Mfg. Div. of
 Video Television, Inc.
SNIFFER
 Nuclear Instrument & Chemical Corp.
SO-HARD
 Southington Hardware Mfg. Co.
SOLDALLOY
 Mallory & Co., Inc., P. R.
SOLDERALL
 Brach Mfg. Corp.
SOLDER MASTER
 Hexacon Electric Co.
SOLDERLITE
 Weller Mfg. Co.
SOLISTRAND
 Aircraft-Marine Products Inc.
SOLOTRON
 Modern Hearing Aids Laboratory, The
SOLU-BRIDGE
 Industrial Instruments, Inc.
SONACTOR
 Kay Electric Co.
SONA-GRAPH
 Kay Electric Co.
SONALATOR
 Kay Electric Co.
SONARMETER
 Raytheon Mfg. Co.
SONIC EAR
 Taybern Equipment Co.
SONOCLE
 Sonotone Corp.
SONODYNE
 Shure Brothers, Inc.
SONO-PROBE
 Aircraft Electronics Associates, Inc.
SONOWEAR
 Sonotone Corp.
SOS
 Chaslyn Co.
SOUNDCASTER
 Operadio Mfg. Co.
SOUNDEX
 Proctor Soundex Corp.
SOUND CELL
 Brush Development Co.
SOUND ISOLATION BLANKET
 Johns-Manville Sales Corp.
SOUNDMIRROR
 Brush Development Co.
SOUNDTRAP
 Miles Reproducer Co., Inc.
SOUNDVIEW
 Tech-Master Products Co.
SPARKFLASH
 Triumph Mfg. Co.
SPARX
 McMurdo Silver Co., Inc.
SPAULDITE
 Spaulding Fibre Co., Inc.
SPAULDO
 Spaulding Fibre Co., Inc.
SPEAK-EZ
 Airtectron, Inc.
SPECO
 Pfanstiehl Chemical Co.
SPECO
 Special Products Co.
SPECORAK
 Special Chemicals Co.
SPECPLATER
 Special Chemicals Co.
SPEC-POWER
 National Spectrographic Laboratories, Inc.
SPECTABLE
 Special Chemicals Co.
SPECTRIFIER
 Special Chemicals Corp.
SPECTROPHOTOMETER
 Central Scientific Co.
SPEECH MASTER
 Jensen Mfg. Co.
SPEED CLAMPS
 Tinnerman Products Inc.
SPEED CLIPS
 Tinnerman Products Inc.
SPEE-DEE
 Peck & Harvey
SPEEDEX
 General Cement Mfg. Co.
SPEED IRON
 Weller Mfg. Co.
SPEED NUTS
 Tinnerman Products Inc.
SPEEDOMAX
 Leeds & Northrup Co.
SPEED-X
 Johnson Co., E. F.

SPEKALUMINITE
 Special Chemicals Co.
SPEKLEEN
 Special Chemicals Co.
SPEKWITE
 Special Chemicals Co.
SPEKYELLO
 Special Chemicals Co.
SPENCER
 American Optical Co.
SPERRY DUPLEX
 Sperry Gyroscope Co.
 Div. of The Sperry Corp.
SPERRY REFLECTOGAGE
 Sperry Products, Inc.
SPERRY REFLECTSCOPE
 Sperry Products, Inc.
SPIN-HEX
 Vaco Products Co.
SPINLAB
 Special Instruments Laboratory, Inc.
SPINTITE
 Stevens-Walden Inc.
SPIRALINE
 Surprenant Mfg. Co.
SPIRALOCK
 Production Engrg. Co.
SPIRALON
 Surprenant Mfg. Co.
SPIRAMEG
 Sprague Electric Co.
SPIRASHIELD
 Muter Co.
SPOTTING SCOPE
 Argus, Inc.
SPRAY
 Paisley Products Inc.
SPRING-ACTION
 Sheldon Electric Co.
SPRING-KING
 Gorrell & Gorrell
SPRING-LIFE
 Cook Electric Co.
SPRINGLOCK
 Simmons Fastener Corp.
SPRING-LOCK ANTENNA
 Oak Ridge Products Mfg. Div. of
 Video Television, Inc.
SQUEEZ-GRIP
 C-O Two Fire Equip. Co.
SQUEEZE-LOCK
 Buchanan Electrical Products Corp.
SR-4
 Baldwin Locomotive Works
SRHT
 Boston Insulated Wire & Cable Co.
STABILFLO
 Foxboro Co., The
STABILINE
 Superior Electric Co.
STABILOG
 Foxboro Co., The
STACO
 Standard Electrical Products Co.
STA-KON
 Thomas & Betts Co., Inc.
STANCOR
 Standard Transformer Corp.
STANDARD
 New York Solder Co.
STANDARD ARROW
 National-Simplex-Bludworth, Inc.
STANDARD BINNACLE
 National-Simplex-Bludworth, Inc.
STANDATROL
 Bailey Meter Co.
STANDLAC
 Standard Varnish Works
STANDO
 Sticht Co., Herman H.
STANELCO
 Standard Telephones & Cables Ltd.
STANTEL
 Standard Telephones & Cables Ltd.
STANTOX
 Standard Varnish Works
STAN-TRAN
 Stanwyck Winding Co.
STAR J
 Haynes Stellite Co.
 Unit of Union Carbide & Carbon Corp.
STARKLINE
 Stark Sound Engr. Corp.
STATISCOPIES
 Minerallac Electric Co.
STATOMIC
 Motorola Inc.
STA-TRAN
 Stanwyck Winding Co.
STEEL-SET
 Paisley Products, Inc.
STERILAIRE
 Ultra-Violet Products Inc.
STERILAMP
 Westinghouse Electric Corp.
STERILZONE
 Dallons Labs.
"STERLING CABLES"
 Cossor (Canada) Ltd.
STETHERTRON
 Maico Co., Inc.
STETHOSCOPE
 Feiler Engineering Co.
STEVENS
 Leupold & Stevens Instruments, Inc.
STIKON
 Ruge-de Forest, Inc.

STILBEST
 Linick Chemical Co.
STOKATIMER
 Mercoind Corp.
STONEHART
 Titeflex, Inc.
STRAINALYZER
 Electronic Tube Corp.
STRATOGRAPH
 Panoramic Radio Products, Inc.
STRATOLLNET
 Shure Brothers
STRATOPAX
 Cook Electric Co.
STRATOSCOPE
 Panoramic Radio Products, Inc.
STRATOVISION
 Westinghouse Electric Corp.
STRESSITE
 Amplex Div. Chrysler Corp.
STRING-A-LITE
 Mines Equipment Division, Joy Mfg. Co.
STRIPMASTER
 Ideal Industries, Inc.
STRIPOHM
 Ward Leonard Electric Co.
STRIPSOL
 Paisley Products, Inc.
STROBOCONN
 Conn. Ltd., C. G.
STROBODYNE
 Sperry Gyroscope Co. Div. of The Sperry Corp.
STROBOFLASH
 General Radio Co.
STROBOLUX
 General Radio Co.
STROBOTAC
 General Radio Co.
STROWDER
 Automatic Electric Co.
STRUX
 du Pont de Nemours & Co., Inc., E. I., Plastics Dept.
STURTEVANT
 Westinghouse Electric Corp.
STYRALOY
 Dow Chemical Co.
STYRAMIC
 Monsanto Chemical Co.
STYROL AC
 Standard Varnish Works
STYRON
 Dow Chemical Co.
SUB-CYCLE
 Lorain Products Corp.
SUNFLASH
 Kemlite Labs.
SUNSWITCH
 Ripley Co., Inc.
SUPER-BEAM
 J. F. D. Mfg. Co.
SUPER EX.
 Telrex, Inc.
SUPERFLAKE
 Superior Flake Graphite Co.
SUPERIOR
 Radiart Corp.
SUPERMALLOY
 Arnold Engineering Co.
SUPER-OILITE
 Amplex Div. Chrysler Corp.
SUPER PRO
 Hammarlund Mfg. Co.
SUPER Q
 Guthman, Inc., Edwin I.
SUPERSEC
 U. S. Rubber Co.
SUPERSONIC
 Dzus Fastener Co., Inc.
SUPERSONIC REFLECTOSCOPE
 Sperry Products Inc.
SUPER TRACER
 Precision Electronics
SUPERVAC
 Central Scientific Co.
SUPER-VIEW
 Brach Mfg. Corp., L. S.
SUPERWIRE
 Audar Inc.
SUPER-X
 Telrex, Inc.
SUPREME
 Aim Industries
SUPREME
 Phonograph Needle Mfg. Co., Inc.
SUPRO
 Vaico Mfg. Co.
SURCO
 Surprenant Mfg. Co.
SURE FLUX
 New York Solder Co.
SURFACE-ANALYZER
 Brush Development Co.
SURFEX
 Pass & Seymour, Inc.
SURFLEX
 Surprenant Mfg. Co.
SWEATLESS
 Paisley Products Inc.
SWEET
 Jensen Industries, Inc.
SWELTERPROOF
 Aviometer Div. of Roanwell Corp.
SWING-WA
 Trumbull Electric Mfg. Co.
SWITCH-LITE
 Littelfuse, Inc.

SWITCH-O-LITE
 Hoffman Engrng. Corp.
SYLPHON
 Fulton Syphon Div., Robertshaw-Fulton Controls Co.
SYLVALOY
 Driver Co., Wilbur B.
SYMPHONY MASTER
 Monitor Products Co.
SYNCHRO-CHEK
 Ionic Equipment Co.
SYNCHRO-METER
 Bailey Meter Co.
SYNCHRON
 Hansen Mfg. Co.
SYNCHRONIZED
 Self Winding Clock Co.
SYNCHRONODE
 Grosley Corp.
SYNCHROTRON
 Westinghouse Electric Corp.
SYNCHRO-VALVE
 Bristol Co., The
SYNCRGGEARS
 U. S. Electrical Motors, Inc.
SYNCTRON
 Dormitzer Electric & Mfg. Co., Inc.
SYNKOTE
 Plastoid Corp.
SYNRUB
 U. S. Rubber Co.
SYNTHINOL
 Rome Cable Corp.
SYNTHITE
 Dolph Co., John C.
SYNTHOGRAPHIC
 Synthane Corp.
SYNTHOLVAR
 Varflex Corp.
SYNVAREN
 Synvar Corp.
SYNVARITE
 Synvar Corp.
SYNVAROL
 Synvar Corp.
SYROCWOOD
 Syracuse Ornamental Co., Inc.
20th CENTURY
 Electronic Devices Co.
T 9
 Eidson Electronic Co.
TABBY
 Division Lead Co.
TACO
 Technical Appliance Corp.
TAG
 Weston Electrical Instrument Corp.
TAKK-TRON
 Takk Corp.
TAP
 Continental Screw Co.
TAPE-O-GRAPH
 Audio Industries
TAPE RECORDER
 Ampex Electric Corp.
TAPER-TONE
 Acton Co., H. W.
TAPE TITE
 Paisley Products Inc.
TAPETONE
 Broadcasting Program Service
TAPMASTER
 Sheldon Electric Co.
TARRYTRON
 Cook Electric Co.
TATTELITE
 Littelfuse, Inc.
T.C.C.
 Telegraph Condenser Co., Ltd.
TEC
 Television Equipment Corp.
TECO
 Teleradio Engineering Corp.
TEFLON
 du Pont de Nemours & Co., Inc., E. I.
TEFSILON
 Boston Insulated Wire & Cable Co.
TEKTOR
 Fielden Electronics Inc.
TEL-A-COR
 Magnetic Core Corp.
TELAMP
 Miles Reproducer Co., Inc.
TELANTUNE
 Crystal Devices Co., Inc.
TELCOARC
 Western Union Telegraph
TELECAP
 Sprague Electric Co.
TELECLEAR
 House of Television Inc.
TELECOMMAND
 Flader, Inc., Frederic
TELECOUPLER
 Television Equipment Corp.
TELEDELTO
 Western Union Telegraph Co.
TELEDIPHONE
 Edison, Inc., Thomas A.
TELEDYNE
 Flader, Inc., Frederic
TELEFAX
 Western Union Telegraph Co.
TELEFILTER
 House of Television, Inc.
TELEFLIGHT
 Flader, Inc., Frederic
TELEGLAS
 Pittsburgh Plate Glass Co.

TELEHOME
 Webster Electric Co.
TELEKRYPTON
 Western Union Telegraph Co.
TELEMARK
 Leupold & Stevens Instruments
TELEMETROSCOPE
 Deutschmann Corp., Tobe
TELEMIKE
 Miles Reproducer Co., Inc.
TELEIRROR
 House of Television Inc.
TELEPAGE
 Webster Electric Co.
TELEPHOTO
 Acme Teletronix Div. of NEA Service, Inc.
TELEPLATE
 Whitney Blake Co.
TELEPRENE
 Whitney Blake Co.
TELE-ROTOR
 Radiart Corp.
TELESET
 Telex, Inc.
TELESONIC
 U. S. Television Mfg. Corp.
TELESPATCH
 Webster Electric Co.
TELESPEAKER
 Telex, Inc.
TELESYMPHONIC
 U. S. Television Mfg. Corp.
TELETALK
 Webster Electric Co.
TELE THERM
 Westinghouse Electric Corp.
TELETORQUE
 Kollsman Instrument Div. of Square D Co.
TELETRAP
 Crystal Devices Co., Inc.
TELEVAC
 Fredericks Co., Geo. E.
TELEVERTER
 James Vibrapowr Co.
TELEVOX
 Westinghouse Electric Corp.
TELE-ZOOM
 Garod Majestic Corp.
TEL-OHMIKE
 Sprague Electric Co.
TELOPTICAN
 Gray Mfg. Co.
TEL-TENNA
 Precision Plastic Products Inc.
TEL-TENNA
 Television Laboratories, Inc.
TELVAR
 Audar, Inc.
TELVUER
 Television Projects, Inc.
TEMCO
 Transmitter Equipment Co., Inc.
TEMP COP
 Micro Switch
 Div. of First Industrial Corp.
TEMSTART
 Synchro Start Products, Inc.
TENITE
 Tennessee Eastman Corp.
 Div. Eastman Kodak
TENITE I
 Tennessee Eastman Corp.
 Div. Eastman Kodak
TENITE II
 Tennessee Eastman Corp.
 Div. Eastman Kodak
TENMA-ROTOR
 Alliance Mfg. Co.
TENNASTUB
 Crystal Devices Co., Inc.
TENSIOMETER
 Saxl Instrument Co.
TENSITE
 Driver Co., Wilbur B.
TENS-O-TROL
 Dillon & Co., Inc., W. C.
TERMALINE
 Bird Electronic Corp.
TERMAND
 Buchanan Electrical Products Corp.
TERROMETER
 Engineering Research Corp.
TESCO
 Eastern Specialty Co.
TESTLITE-FUSPUL
 Dante Electric Mfg. Co.
TEST-MIKE
 Cornell-Dubilier Electric Corp.
TEST-O-LITE
 Brach Mfg. Corp.
TEST-MASTER
 Precision Apparatus Co.
TETCO
 Electric Tachometer Co.
TEXTOLITE
 General Electric Co.
THERACOUPLER
 Marconi Instruments Ltd.
THERA-RAY
 Edin Electronics Co.
THERATHERM
 Marconi Instruments Ltd.
THERMALARM
 Eastern Specialty Co.
THERMALL
 LaRose & Associates, W. T.
THERM-A-NEERING
 Westinghouse Electric Corp.

THERMATRON
 Radio Receptor Co.
THERMEX
 Girdler Corp.
 Thermex Division
THERMITE
 Thermionic Engrg. Corp.
THERMOCAP
 Niagara Electron Laboratories
THERMO-CONTAX
 Rahm Instruments, Inc.
THERMO-GRIP
 Ideal Industries, Inc.
THERMOGUARD
 Westinghouse Electric Corp.
THERMO-HUMIDIGRAPH
 Bristol Co., The
THERMOIL-GRANODINE
 American Chemical Paint Co.
THERMOLAIN
 Star Porcelain Co.
THERMOLAST
 Elematic Equip. Corp.
THERMO-LO
 Farrelloy Co.
THERMOMETAL
 Wilson Co., The, H. A.
THER-MONIC
 Induction Heating Corp.
THERMOPLAX
 Cutler-Hammer, Inc.
THERMOSEN
 Sorensen & Co.
THERMO-SWAP
 Spencer Thermostat Co.
THERMOSWITCH
 Fenwal, Inc.
THERM-OTROLS
 Wheelco Instruments Co.
THERMOVERTER
 Bristol Co., The
THER-MU-TROL
 Mu Switch Co.
THE SAURUS
 Radio Corp. of America
THINEX
 Dixon Crucible Co., Joseph
THRED-LOCK
 Continental Screw Co.
THREDMOUNT
 National Union Radio Corp.
THROTTLTROLS
 Wheelco Instruments Co.
TH-URAY
 Sperry Products, Inc.
TICONDEROGA
 Dixon Crucible Co., Joseph
TIDLETRIK
 American Lava Corp.
TI-MATIC
 Westinghouse Electric Corp.
TIME AID
 Paragon Electric Co.
TIMEFAX
 Times Facsimile Corp.
TIME-MASTER
 Dictaphone Corp.
TIME-O-GRAF
 Gibbs Div. v
 George W. Borg Corp.
TIME-O-LITE
 Industrial Timer Corp.
TIM-O-LUX
 Sidward Mfg. Co., Inc.
TIM-U-LATOR
 Gorrell & Gorrell
TINOL
 American Solder & Flux Co.
TINY GLOW
 Industrial Devices, Inc.
TINY TIM
 Shure Brothers
TIREX
 Simplex Wire & Cable Co.
TITAN
 General Lead Batteries Co.
TITAN
 Sonotone Corp.
TITE-BIND
 Thomas & Betts Co., Inc.
TITE-BITE
 Thomas & Betts Co., Inc.
TITEGRIP
 Dante Electric Mfg. Co.
TITONE
 Sonotone Corp.
TITRALOG
 Consolidated Engineering Corp.
TITRIMETER
 Fisher Scientific Co.
TITROMETER
 Precision Scientific Co.
TOCCO
 Ohio Crankshaft Co., Tocco Div.
T. W.
 Paisley Products Inc.
TOCCOTRON
 Ohio Crankshaft Co., Tocco Div.
TOK FONE
 Regal Electronics Corp.
TOM THUMB
 Automatic Radio Mfg. Co., Inc.
TONG TEST
 Columbia Electric Mfg. Co.
TONG TEST
 Martindale Electric Co.
TOP HAT
 Times Facsimile Corp.

TOPHET
 Driver Mfg. Co., Wilbur B.
TORAC
 Morill & Morill
TORKOTHERM
 Tork Clock Co.
TORQUE DRIVE
 Electro-Voice, Inc.
TORKMASTER
 Tork Clock Co., Inc.
TORRIDAL
 Capacitron Co.
TORSIOGRAPH
 Commercial Research Labs., Inc.
TORSIOMETER
 Commercial Research Labs., Inc.
TOUCH-TIMER
 Kay Electric Co.
TRAFF-O-MATIC
 Automatic Signal Division
TRAIL BLAZER
 Meck Industries, John
TRANCORS
 Lenkurt Electric Co., Inc.
TRANSFAX
 Eastman Kodak Co., Industrial Photographic
 Sales Div.
TRANSFILTER
 Brush Development Co.
TRANSFLEX
 Irvinaton Varnish & Insulator Co.
TRANSITE
 Johns-Manville Sales Corp.
TRANSITONE
 Philco Corp.
TRANSKOTE
 Pancro Mirrors, Inc.
TRANS-METER
 Electronic Specialty Co.
TRANS-O-METER
 Westinghouse Electric Corp.
TRANSVERTER
 Hertner Electric Co.
TRAVERTONE
 Armstrong Cork Co.
TRI-CORE
 Alpha Metals, Inc.
TRIG
 Rostan Corp.
TRI-LOK
 Boots Aircraft Nut Corp.
TRIMAIR
 Cardwell Mfg. Corp., Alan D.
TRIMTHERM
 General Controls Co.
TRI-O-MATIC
 V-M Corp.
TRI-O-SPEED
 V-M Corp.
TRIONIC
 Clarkstan Corp.
TRONEX
 Wheaton Co., T. C., Industrial Div.
TRUARC
 Waldes Kohinoor Inc.
TRUE-BRAND
 Carboneau Industries, Inc.
TRU FIDELITY
 Thordarson Electric Mfg. Div.
 Maquire Industries, Inc.
TRUFLEX
 General Plate Division, Metals & Controls Corp.
TRU-FLEX
 Peerless Photo Products
TRU-GRAF
 Peerless Photo Products
TRU-OHM
 Model Engrng. & Mfg. Co.
TRUSCON
 Republic Steel Corp.
TRU-SONIC
 Stephens Mfg. Corp.
TRYLON
 Wind Turbine Co., Tower & Antenna Div.
TURE-MASTER
 Precision Apparatus Co.
TUBE-U-LAR
 Pyramid Electric Co.
TUFFERNELL
 Westinghouse Electric Corp.
TUFFY
 Insulation Manufacturers Corp.
TUFLEC
 Laminated Plastics Inc.
TURBO
 Brand & Co., Wm.
TURBO PRENE
 Brand & Co., Wm.
TURBOTHERM
 Brand & Co., Wm.
TURQUOISE
 Eagle Pencil Co.
TWIN FAST
 Blake & Johnson Co.
TWINTACTS
 Weston Electrical Instrument Co.
TWIN-TRAX
 Amplifier Corp. of America
TWINKORD
 Ansonia Electrical Co.
TWINSET
 Telex, Inc.
TWINSULATION
 U. S. Rubber Co.
TWISTAB
 National Union Radio Corp.

TWIST-LOCK
 Hubbell, Inc., Harvey
TWIST-LOK
 Sprague Electric Co.
TWIST-MOUNT
 Pyramid Electric Co.
TWIST-TITE
 Hubbell, Inc., Harvey
TY-DOWN
 Air Associates, Inc.
TYGON
 U. S. Stoneware Co.
TY-LOK
 Air Associates, Inc.
TYLOX
 Hamilton Kent Mfg. Co., Inc.
TYMIT
 Tork Clock Co.
TYNEE-DRY
 Pyramid Electric Co.
TYPE-O-WRITER
 Kellogg Switchboard & Supply Co.
TYPHONITE ELDORADO
 Dixon Crucible Co., Joseph
TZUCOPY PHOTE
 General Photo Products Co., Inc.
UBABOND
 Union Bay State Chemicals Co.
UBAGRIP
 Union Bay State Chemical Co.
UBAPOL
 Union Bay State Chemical Co.
UBATEX
 Union Bay State Chemical Co.
U-GRIP
 Aircraft-Marine Products, Inc.
ULTRACOMPACT
 United Transformer Co.
ULTRASCALER
 Nuclear Instrument & Chemical Corp.
ULTRASONORATOR
 Crystal Research Labs., Inc.
ULTRATONE
 Audio Industries
ULTRON
 Monsanto Chemical Co., Plastics Div.
UMP
 Illinois Condenser Co.
UNBRAKO
 Standard Pressed Steel Co.
UNDARK
 U. S. Radium Corp.
UNIBALLASTS
 National Union Radio Corp.
UNICLOSED
 U. S. Electrical Motors, Inc.
UNICON
 United Condenser Corp.
UNI-CRIMP
 Sherman Mfg. Co., H. B.
UNIDYNE
 Shure Brothers, Inc.
UNI-FLEX
 Dumore Co., The
UNIFLEX
 Miskella Infra-Red Co.
UNI-FLOW
 Barber-Colman Co.
UNILINE
 Pass & Seymour, Inc.
UNI-MATIC
 Calbest Engineering & Electronics Co.
UNIONMELT
 Linde Air Products Co., Unit of
 Union Carbide & Carbon Corp.
UNIPLEX
 Shure Brothers, Inc.
UNIPOINT
 Shure Brothers, Inc.
UNIPOLE
 Andrew Co.
UNITACT
 Bristol Co., The
UNITED
 Jackson Industries, Inc.
UNITRAD
 Crosley Corp.
UNIVAC
 Eckert-Mauchly Computer Corp.
UNIVERSAL
 Mueller Electric Co.
UNIVERSAL
 Davis & Murphy
UNIVIBES
 National Union Radio Corp.
UPSON
 Republic Steel Corp.
URAC
 American Cyanamid Co., Plastics Div.
URELITE
 I-T-E Circuit Breaker Co.
UST
 U. S. Television Mfg. Corp.
USALITE
 Stupakoff Ceramic & Mfg. Co.
USECO
 U. S. Engineering Co.
USEMENT
 U. S. Rubber Co.
USEX
 U. S. Rubber Co.
USEX ABBOSEALED
 U. S. Rubber Co.
USKORONA
 U. S. Rubber Co.

USPRENE
 U. S. Rubber Co.
USRUB
 U. S. Rubber Co.
U.S.S.
 Carnegie-Illinois Steel Corp.
U.S.S. AMERICAN
 American Steel & Wire Co.
UTC
 United Transformer Corp.
UTILASTIC
 Paisley Products, Inc.
UTILIPHONE
 National Electronic Labs., Inc.
V-HEAT
 Electric Eye Equipment Co.
V-KING
 Schott Co., Walter L.
VACOMBO
 Vaco Products Co.
VACOPAK
 Vacolite Co.
VACTITE
 Locke Incorporated
VACTU-PAK
 Allen-Howe Electronics Corp.
VACTU-PHONE
 Allen-Howe Electronics Corp.
VALVRATORS
 Fischer & Porter Co.
VALVSEAL
 Richardson Co.
VAN de GRAAFF
 High Voltage Engineering Corp.
VAPO
 Post Co., Frederick
VAREC
 Vapor Recovery Systems Co.
VARGLAS
 Varflex Corp.
VARIAC
 General Radio Co.
VARIATEN
 Shallcross Mfg. Co.
VARIDRIVES
 U. S. Electrical Motors, Inc.
VARIMATCH
 United Transformer Corp.
VARI PLOTTER
 Electronic Associates, Inc.
VARIPOWER
 United Transformer Corp.
VARITONE
 Flader, Inc., Frederic
VAPITRAN
 United Transformer Corp.
VARITRON
 Phonographic Products, Inc.
VARITRONIC
 Electron Equipment Corp.
VAPT-VOLT
 Hallderson Co., The
VASCO
 Mitchell Industries, Inc.
VAV METER
 Fluke Engineering Co., John
VEECO
 Vacuum Electronic Engineering Co.
VEE-D-X
 LaPointe-Plascomold Corp.
VEGETOL
 Cornell-Dubilier Electric Corp.
VEGIMAL
 Paisley Products, Inc.
VELOMETER
 Illinois Testing Labs., Inc.
VENDLITES
 Drake Mfg. Co.
VERICON
 Remington Rand, Inc.
VEPITHIN
 Eagle Pencil Co.
VERNIER-SET
 Automatic Temperature Control Co., Inc.
VERSACONE
 Radio Merchandise Sales.
VERSALITE
 U. S. Rubber Co.
VERSATEX
 Shure Brothers
VIBESTON
 U. S. Rubber Co.
VIBRALOC
 Topping Mfg. Co.
VIBRAPAK
 Mallory & Co., Inc., P. R.
VIBPASENDER
 Motorola Inc.
VIBRASHOCK
 Robinson Aviation, Inc.
VIBRASPONDER
 Motorola Inc.
VIBROGROUND
 Associated Research Inc.
VIBROMETER
 Televiso Products, Inc.
VIBROMIKE
 Brush Development Co.
VIBROTEST
 Associated Research, Inc.
VICALLOY
 Arnold Engineering Co.
VICTOR
 Radio Corp. of America
VICTROLA
 Radio Corp. of America
VICTRON
 Victor Electric Products, Inc.
VIDEO BEAM
 Camburn, Inc.
VIDEOCOUPLER
 Mallory & Co., Inc., P. R.
VIDEOLA
 Tech-Master Products Co.
VIDEON
 Tele-Video Corp.
VIDEOSET
 Video Corp. of America
VIDEOTRON
 National Union Radio Corp.
VIDI MASTER
 Communication Measurements Lab., Inc.
VIEWLITE
 Viewlex Inc.
VIEWMATIC
 Viewlex Inc.
VIEWTALK
 Viewlex Inc.
VIKANE
 Cornell-Dubilier Electric Corp.
VIMLITE
 Geianese Corp. of America
VINYL
 Alpha Wire Corp.
VINYLITE
 Bakelite Div., Union Carbide & Carbon Corp.
VINYLSEAL
 Bakelite Corp.
VINYON
 Bakelite Corp.
VIPOWER
 Cornell-Dubilier Electric Corp.
VIPOWER
 Radiart Corp.
VISABLE PROOF
 Electric Heat Control Co., The
VISAFLEAME
 Mercoird Corp.
VISCOR
 Weston Electrical Instrument Co.
VISICODE
 Westinghouse Electric Corp.
VISITRON
 Rauland Corp.
VISO-CARDIETTE
 Sanborn Co.
VISUAL GAGE
 Sheffield Co.
VITAMIN Q
 Sprague Electric Co.
VITAVOX
 Radonic Transformer Co.
VITROHM
 Ward Leonard Electric Co.
VITROLAIN
 Star Porcelain Co.
VIZ
 Molded Insulation Co., Aircraft Control Div
VOCAL-AIRE
 Dilks Co., The
VOICE OF THEATRE
 Altec Lansing Corp.
VOICEWRITER
 Edison Inc., Thomas A.
VOLSTAT
 Industrial Transformer Corp.
VOLTALAC
 Standard Varnish Works
VOLT-AMP
 Industrial Devices, Inc.
VOLTASCOPE
 Polarad Electronics Corp.
VOLTBOX A-C
 Superior Electric Co.
VOLTOHMYST
 Radio Corporation of America
VOLTROL
 Acme Electric Corp.
VOLTTRON
 Industrial Synthetics Corp.
VOMAX
 McMurdo Silver Co., Inc.
VOYCALL
 Lake Mfg. Co.
VUELITE
 Monsanto Chemical Co., Plastics Div.
VUEPAK
 Monsanto Chemical Co., Plastics Div.
VUE-SCOPE
 Celomat Corp.
VULCATEX
 Horn Co., Inc., A. C.
VULCO'D
 Continental Diamond Fibre Co.
VYCOP
 Corning Glass Works
WABLQUIST
 Nilsson Electrical Laboratory, Inc.
WAHLQUIST
 Nilsson Electrical Laboratory, Inc.
WALCO
 Electrovox Co., Inc.
WALDES TRUARC
 Waldes Kohinoor, Inc.
WALSCO
 Schott Co., Walter L.
WATCHMASTER
 American Time Products, Inc.
WATERWITE
 Bache & Co., Semon
WAXMASTER
 Aerol Products Co.
W. D. C.
 Paisley Products Inc.
WEDGE-GRIP
 Sherman Mfg. Co., H. B.
WEDGE-ON
 Thomas & Betts Co., Inc.
WEDGIE
 Insulation Manufacturers Corp.
WEIGER-WEED
 Fansteel Metallurgical Corp.
WEILCO
 Weil & Co., J. H.
WEILETTE
 Weil & Co., J. H.
WEILINE
 Weil & Co., J. H.
WELDRAWN
 Superior Tube Co.
WELDOMATIC
 Westinghouse Electric Corp.
WELD-O-TIMER
 Westinghouse Electric Corp.
WELD-O-TROL
 Westinghouse Electric Corp.
WELDPPOWER
 Raytheon Mfg. Co.
WEMCALLOY
 Westinghouse Electric Corp.
WESTACH
 Westberg Mfg. Co.
WHARFEDALE
 British Industries Corp.
WHEELLOCK
 Signal Engineering & Mfg. Co.
WINCHESTER
 Olin Industries, Inc.
WILCO
 Wilson Co., The, H. A.
WINCO
 Wincharger Corp.
WIPERMALLOY
 United Transformer Corp.
WIRESMASTER
 Precision Audio Prods., Inc.
WIRE-NUTS
 Ideal Industries, Inc.
WIREFHONE
 Molded Insulation Co., Aircraft Control Div.
WIRETONE
 Molded Insulation Co., Aircraft Control Div.
WIREWATT
 Ohmite Mfg. Co.
WISSCO
 Wickwire Spencer Steel Div.,
 The Colorado Fuel & Iron Corp.
WOOD GLU
 Paisley Products Inc.
WOODITE
 Syracuse Ornamental Co., Inc.
WOODWELDER
 Short Wave Plastic Forming Co.
WOODWIN
 Wood Electric Co., Inc., C. D.
WRIGHTFLOR
 Taylor Mfg. Co.
WRINCO
 New Wrinkle, Inc.
WRINTEX
 New Wrinkle, Inc.
WYD-ANGLE
 Ess Instrument Co.
XACTEMP
 Gordon Co., Claud S.
XACTLINE
 Gordon Co., Claud S.
XCELITE
 Park Metalware Co.
XENOFASH
 Triumph Mfg. Co.
X-PRESS
 Cook Electric Co.
XRD
 General Electric X-Ray Corp.
X-VAR
 Fidelity Chemical Products Corp.
X-WASHERS
 Standard Locknut & Lockwashers, Inc.
Z ANGLE
 Technology Instrument Corp.
"Z" NICKEL
 International Nickel Co., Inc., The
ZAHODIAKIN
 Scovill Mfg. Co.
ZENEL
 Bonney Forge & Tool Works
ZERO READER
 Sperry Gyroscope Co. Div. of The Sperry Corp.
ZIPCOPD
 U. S. Rubber Co.
ZIPOHMS
 Mutter Co.
ZIP-IN
 American Phenolic Corp.
ZIRCONARC
 Fish-Schurman Corp.
ZIRMET
 Foote Mineral Co.
ZOOMAR
 Television Zoomar Corp.
ZYROX
 Halowax Products Division,
 Union Carbide & Carbon Corp.

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MANUFACTURERS INDEX

A listing of the companies engaged in the manufacture of all types of electronic components and complete electronic equipment. They are alphabetically arranged for convenient use and quick reference.

- A B C Radio Laboratories, 3334 N. New Jersey St., Indianapolis 5, Ind.
A. P. W. Co., 72 W. Main St., Rockaway, N. J.
Abalon Precision Mfg. Corp., 540 Casanova St., Bronx 59, N. Y.
Accurate Paper Tube Co., 851 N. Noble St., Chicago 22, Ill.
Accurate Spring Mfg. Co., 3811 W. Lake St., Chicago, Ill.
Ace Engineering & Machine Co., 3642 N. Lawrence St., Philadelphia 40, Pa.
Ace Spring Mfg. Co., 77 W. Houston St., New York 12, N. Y.
Acheson Colloids Corp., Port Huron, Mich.
Ackerman-Johnson Co., 625 W. Jackson Blvd., Chicago 6, Ill.
Acklin Stamping Co., 1923 Nebraska Ave., Toledo 7, Ohio.
Acme Battery Co., 59 Pearl St., Brooklyn, N. Y.
Acme Electric Corp., 31 Water St., Cuba, N. Y.
Acme Electric Heating Co., 1217 Washington St., Boston, Mass.
Acme Folding Box Co., Inc., 141 E. 25th St., New York, N. Y.
Acme Electronix Div. of NEA Service, Inc., West Third & Lakeside, Cleveland 13, Ohio.
Acme Wire Co., New Haven 14, Conn.
Acro Electric Co., 1316 Superior Ave., Cleveland 14, Ohio.
Acro Products Co., 5330 Baltimore Ave., Philadelphia, Pa.
Acro Transformer Mfg. Corp., 21-20 33rd Ave., Long Island City, N. Y.
Acromark Co., The, 442 Morrell St., Elizabeth 4, N. J.
Acton Co., Inc., H. W., 370 7th Ave., New York 1, N. Y.
Adair & Rhamstine, 314 Beaubien St., Detroit 26, Mich.
Adams & Westlake Co., Michigan St., Elkhart, Ind.
Adaptol Co., 120 New Lots Ave., Brooklyn, N. Y.
Adel Precision Products Corp., 10777 Van Owen St., Burbank, Calif.
Admiral Corp., 3800 Cortland St., Chicago 47, Ill.
Advance Electric & Relay Co., 2435 Naomi St., Burbank, Calif.
Advance Recording Products Co., 36-12 34th St., Long Island City, N. Y.
Aermetive Equipment Corp., 1632-8 Central St., Kansas City 10, Mo.
Aero Needle Co., 619 N. Michigan Ave., Chicago 11, Ill.
Aerolite Products Co., Wesley St., South Hackensack, N. J.
Aerolite Electronic Hardware Corp., 507-26th St., Union City, N. J.
Aerolux Light Corp., 653 11th Ave., New York 19, N. Y.
Aeronautical Communications Equipment, Inc., 3090 Douglas Rd., Miami 33, Fla.
Aeronautical Radio Mfg. Co., 155 First St., Mineola, N. Y.
Aerovox Corp., 740 Belleville Ave., New Bedford, Mass.
Aim Industries, 41 Union Sq., New York 3, N. Y.
Air Associates, Inc., Teterboro, N. J.
Air-King Products Co., Inc., 170 53rd St., Brooklyn, N. Y.
Airborne Electronics Co., Metropolitan Airport Hangar No. 3, Van Nuys, Calif.
Airborne Instruments Lab., Inc., 160 Old Country Rd., Mineola, N. Y.
Aircraft Electronics Associates, Inc., 1031 New Britain Ave., Hartford 10, Conn.
Aircraft Marine Products, Inc., 1523 N. Fourth St., Harrisburg, Pa.
Aircraft Radio Corp., Boonton, N. J.
Airdesign, Inc., 241 Fairfield Ave., Upper Darby, Pa.
Airelectron, Inc., P. O. Box 151, Caldwell, N. J.
Airtroics Mfg. Co., 5145 W. San Fernando Rd., Los Angeles 39, Calif.
Ajax Electrothermic Corp., Ajax Park, Trenton 5, N. J.
Akron Porcelain Co., Akron 14, Ohio.
Aladdin Radio Industries, Inc., 501 W. 35th St., Chicago 16, Ill.
Alden Products Co., 117 No. Main St., Brockton 64, Mass.
Aldine Paper Co., Inc., 535 5th Ave., New York 17, N. Y.
Alfax Paper & Engineering Co., 40 Riverside Ave., Brockton 27 E. B., Mass.
All American Tool & Mfg. Co., 1014 W. Fullerton St., Chicago 14, Ill.
All Weather Springs, 140 Cedar St., New York 6, N. Y.
Allegheny Ludlum Steel Corp., H. W. Oliver Bldg., Pittsburgh 22, Pa.
Allen Co., L. B., Inc., 6751 Bryn Mawr Ave., Chicago 31, Ill.
Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
Allen Mfg. Co., Hartford, Conn.
Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio.
Allied Control Co., Inc., 2 East End Ave., New York 21, N. Y.
Allied Radio Corp., 833 W. Jackson Blvd., Chicago 7, Ill.
Allied Recording Products Co., 21-09 43rd Ave., Long Island City 1, N. Y.
Allis-Chalmers Mfg. Co., 935 South 70th St., Milwaukee 1, Wis.
Allis Co., Louis, 427 E. Stewart St., Milwaukee 7, Wis.
Allmetal Screw Products Co., Inc., 33 Greene St., New York 13, N. Y.
Allmetal Spinning & Stamping Co., 1020 Willoughby Ave., Brooklyn, N. Y.
Alloy Metal Wire Co., 13th & Penna. Ave., Prospect Park, Pa.
Alpha Laboratories, Box 184 Belmar, N. J.
Alpha Metals, Inc., 363 Hudson Ave., Brooklyn 1, N. Y.
Alpha Wire Corp., 50 Howard St., New York, N. Y.
Altec Lansing Corp., 161 Avenue of the Americas, New York 13, N. Y.
Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa.
Amalgamated Electronics, Electronics Road, Clinton Corners, N. Y.
Ambrold Co., 305 Franklin St., Boston 10, Mass.
American British Technology Inc., 57 Park Ave., New York 16, N. Y.
American Chemical Paint Co., Ambler, Pa.
American Chronoscope Corp., 316 W. First St., Mt. Vernon, N. Y.
American Communications Corp., 306 Broadway, New York 7, N. Y.
American Condenser Co., 4410 Ravenswood Ave., Chicago 40, Ill.
American Cyanamid Co., Plastics Div., 38 Rockefeller Plaza, New York 20, N. Y.
American Diathermy Productions, 11240 W. Olympic Blvd., Los Angeles 25, Calif.
American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
American Electric Motors, Inc., Los Angeles, Calif.
American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
American Electroneering Co., 2112 S. La Brea Ave., Los Angeles, Calif.
American Electronics Corp., 226 No. Fourth St., Columbus 15, Ohio.
American Emblem Co., Inc., P. O. Box 116 R, Utica, N. Y.
American Gas Accumulator Co., 1029 Newark Ave., Elizabeth, N. J.
American Hard Rubber Co., 11 Mercer St., New York 13, N. Y.
American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
American Insulator Corp., New Freedom, Pa.
American Kleer-Vu Plastics, 57 Thames St., Brooklyn 6, N. Y.
American Laubscher Corp., 333 W. 52nd St., New York 19, N. Y.
American Lava Corp., Chattanooga 5, Tennessee.
American Microphone Co., 370 So. Fair Oaks Ave., Pasadena 1, Calif.
American Molded Products Co., 1644 N. Honore St., Chicago 22, Ill.
American Nut & Bolt Fastener Co., 2045 Doerr St., Pittsburgh 12, Pa.
American Optical Co., Scientific Instrument Div., Box A, Buffalo 15, N. Y.
American Phenolic Corporation, 1830 S. 54th Ave., Chicago 50, Ill.
American Platinum Works, N.J.R.R. Ave. at Oliver St., Newark 5, N. J.
American Products Mfg. Co., Oleander & Dublin St., New Orleans 18, La.
American Radionics Co., 33 Flatbush Ave., Brooklyn, N. Y.
American Radio Hardware Co., 152 MacQuesten Pkwy., South Mount Vernon, N. Y.
American Relay & Controls Inc., 4901 W. Flournoy St., Chicago 44, Ill.
American Scientific Co., P. O. Box 1, High Bridge Station, New York 52, N. Y.
American Screw Co., Willimantic, Conn.
American Solder & Flux Co., 2152 E. Norris St., Philadelphia 25, Pa.
American Steel & Wire Co., U. S. Steel Corp. Subsidiary, Rockefeller Bldg., Cleveland 13, Ohio.
American Structural Products Co., Toledo 1, Ohio.
American Television, Inc., 523 S. Plymouth St., Chicago 6, Ill.
American Television & Radio Co., 300 E. 4th St., St. Paul 1, Minn.
American Thermo Electric Co., 67 E. 8th St., New York 3, N. Y.
American Time Products, Inc., 580 Fifth Ave., New York 19, N. Y.
American Transformer Co., 285 Emmett St., Newark, N. J.
Amglo Corp., 4234 Lincoln Ave., Chicago 18, Ill.
Amperex Electronic Corp., 25 Washington St., Brooklyn 1, N. Y.
Amperite Co., 561 Broadway, New York 12, N. Y.
Ampex Electric Corp., 1155 Howard Ave., San Carlos, Calif.
Amplex Division, Chrysler Corp., Detroit 31, Mich.
Amplifier Corp. of America, 396 Broadway, New York 13, N. Y.
Ampro Corp., 2835 North Western Ave., Chicago 18, Ill.
Amy, Aceves & King Inc., 11 W. 42nd St., New York 18, N. Y.
Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Analysis Instrument Co., P. O. Box 231, East Paterson, N. J.
Anchor Metal Co., 87 Walker St., New York 13, N. Y.
Anchor Plastics Co., Inc., 533-541 Canal St., New York 13, N. Y.
Anchor Radio Corp., 2215 South St., Chicago 23, Ill.
Anchor Webbing Co., P. O. Box 1624, Providence, R. I.
Anderson, Arthur R., 110 Woodbury Ave., Springdale, Conn.
Andrea Radio Corp., 27-01 Bridge Plaza North, Long Island City 1, N. Y.
Andrew Corp., 363 E. 75th St., Chicago 19, Ill.
Annis Co., R. B., 1101 N. Delaware St., Indianapolis, Ind.
Anso Div., General Aniline & Film Corp., Binghamton, N. Y.
Anslay Radio & Television Inc., 41 St. Joes Ave., Trenton 9, N. J.
Ansonia Electrical Co., 63 Main St., Ansonia, Conn.
Antara Products, General Aniline & Film Corp., 444 Madison Ave., New York 22, N. Y.
Antenna Research Lab., Inc., 797 Thomas Lane, Columbus 9, Ohio.
Anton Electronic Laboratories, Inc., 1226-1238 Flushing Ave., Brooklyn 6, N. Y.
Apathouser Corp., 104 Brookline Ave., Boston, Mass.
Applied Electronics Co., 1246 Folsom St., San Francisco 3, Calif.
Applied Physics Corp., 30 W. Green St., Pasadena 1, Calif.
Applied Research Labs., 4336 San Fernando Rd., Glendale 4, Calif.
Applied Science Corp. of Princeton, The, P. O. Box 44, Princeton, N. J.
Approved Electronic Instrument Corp., 142 Liberty St., New York 6, N. Y.
Arc Radio Corp., 523 Myrtle Ave., Brooklyn, N. Y.
Arch Gear Works, Inc., Quincy, Mass.
Arcturus Electronics, Inc., 54 Clark St., Newark, N. J.
Argus, Inc., Ann Arbor, Mich.
Ark-Les Switch Corp., 55 Water St., Watertown 72, Mass.
Arlington Electric Products Inc., 500 W. 52nd St., New York 19, N. Y.
Arma Corp., 254 36th St., Brooklyn 32, N. Y.
Armo Steel Corp., 703 Curtis St., Middletown, Ohio.
Armstrong Cork Co., Lancaster, Pa.
Arnold Engineering Co., 147 E. Ontario St., Chicago 11, Ill.
Arro Expansion Bolt Co., Boone Ave., Marion, Ohio.
Arrow-Hart & Hegeman Co., 100 Hawthorne St., Hartford, Conn.
Art-Lloyd Metal Products Corp., 2973 Cropsey Ave., Brooklyn 14, N. Y.
Art Roll Leaf Stamping Co., 3610 Palisade Ave., Union City, N. J.
Art Wire & Stamping Co., 227 High St., Newark 2, N. J.
Askania Regulator Co., 240 E. Ontario St., Chicago 11, Ill.
Assembly Products, Inc., Chagrin Falls 6, Ohio.
Associated Production Co., 162 N. Clinton St., Chicago 6, Ill.
Associated Research, Inc., 3758 W. Belmont, Chicago 18, Ill.
Astatic Corp., The, Conneaut, Ohio.
Astron Corp., 255 Grant Ave., East Newark, N. J.
Atlantic India Rubber Works, Inc., 571 Polk St., Chicago 7, Ill.
Atlas Coil Winders, Inc., Stamford, Conn.
Atlas Electric Products Co., P. O. Box 1591, Erie, Pa.
Atlas Sound Corp., 1443 39th St., Brooklyn 18, N. Y.
Atlas Tack Corp., Pleasant St., Fairhaven, Mass.
Atomic Instrument Co., 160 Charles Street, Boston, Mass.
Audak Co., 500 Fifth Ave., New York, N. Y.
Audio Development Co., 2633 13th Ave., S., Minneapolis 7, Minn.
Audio Devices, Inc., 444 Madison Ave., New York 22, N. Y.
Audio Equipment Co., 80-20 45th Ave., Elmhurst, N. Y.

Audio Equipment Sales, 153 W. 33rd St., New York 1, N. Y.

Audio Industries, Michigan City, Ind.

Audio Instrument Co., 1947 Broadway, New York 23, N. Y.

Audiograph Co., 1414 El Camino Real, San Carlos, Calif.

Audio-Master Co., 23 W. 45th St., New York 19, N. Y.

Aurex Corp., 1117 N. Franklin St., Chicago, Ill.

Austin Co., 335 Throop Ave., Brooklyn 21, N. Y.

Auto Engraver Co., Inc., 1776 Broadway, New York, N. Y.

Autocall Co., The, Shelby, Ohio.

Autocrat Radio Co., 3855 N. Hamilton Ave., Chicago, Ill.

Automatic Coil Winder & Electrical Equipment Co., Ltd., Winder House, Douglas St., London, S. W. 1, England.

Automatic Electric Sales Corp., 1033 W. Van Buren St., Chicago 7, Ill.

Automatic Mfg. Corp., 65 Gouverneur St., Newark 4, N. J.

Automatic Metal Products Co., 315 Barry St., Brooklyn 1, N. Y.

Automatic Radio Mfg. Co., Inc., 122 Brookline Ave., Boston, Mass.

Automatic Signal Division, 100 Regent St., East Norwalk, Conn.

Automatic Switch Co., 391 Lakeside Ave., Orange, N. J.

Automatic Temperature Control Co., Inc., 5212 Pulaski Ave., Philadelphia 44, Pa.

Autoscrew Co., 216-222 W. 18th Street, New York, N. Y.

Autotron Co., The, Danville, Ill.

Aviometer Div. of Roanwell Corp., 662 Pacific St., Brooklyn 17, N. Y.

B & C Insulation Products, Inc., Lincoln Highway, Iselin, N. J.

Bace Television Corp., Green & Leunig Sts., South Hackensack, N. J.

Bache & Co., Semon, 636 Greenwich St., New York 14, N. Y.

Back Video Corp., F. G., Room 2223, 500 Fifth Avenue, New York, N. Y.

Baer Co., N. S., 9 Montgomery St., Hillside, N. J.

Bailey Meter Co., 1044 Ivanhoe Road, Cleveland 10, Ohio.

Baird Associates, Inc., 33 University Rd., Cambridge 38, Mass.

Bakelite Div., Union Carbide & Carbon Corp., 30 East 42nd St., New York 17, N. Y.

Baker & Co., Inc., 113 Astor St., Newark 5, N. J.

Baldor Electric Co., 4353 Duncan Ave., St. Louis, Mo.

Baldwin Locomotive Works, Philadelphia 42, Pa.

Ballantine Laboratories, Inc., Boonton, N. J.

Bamberger Corp., A., 44 Hewes St., Brooklyn 11, N. Y.

Barber Colman Co., Rockford, Ill.

Barber Labs., Alfred W., 32-44 Francis Lewis Blvd., Flushing, N. Y.

Barclay Instruments Div., The Patent Button Co., Waterbury 88, Conn.

Bar-Ray Products, Inc., 209 25th St., Brooklyn 32, N. Y.

Bardwell & McAllister Inc., P. O. Box 1310, Hollywood, California.

Barker & Williamson, 235 Fairfield Ave., Upper Darby, Pa.

Barnes-Gibson-Raymond Div., Associated Spring Corp., 6400 Miller Ave., Detroit 11, Mich.

Barreca Products Co., Inc., 84 Bowery, New York 13, N. Y.

Barrett Co., Leor J., P. O. Box 378, Worcester 1, Mass.

Barrett Bindery Co., 1332 W. Monroe St., Chicago 7, Ill.

Barrett Varnish Co., 1532 S. 50th Court, Cicero 50, Ill.

Barry Corp., The, 179 Sidney St., Cambridge, Mass.

Bassett Inc., Rex, 307-11 N. W. 1st Ave., Ft. Lauderdale, Fla.

Bauer & Black, 222 W. Adams St., Chicago, Ill.

Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.

Beach Precision Parts Co., Boonton, N. J.

Beach-Russ Co., 50 Church St., New York 7, N. Y.

Bead Chain Manufacturing Co., The, 110 Mountain Grove St., Bridgeport 5, Conn.

Beaver Gear Works, Inc., 1034 Parmele St., Rockford, Ill.

Beede Electrical Instrument Co., Inc., Penacook, N. H.

Behr-Manning Div. of Norton Co., Troy, N. Y.

Bel Fuse Inc., 311 Mountain Road, Union City, N. J.

Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.

Bell Sound Systems, Inc., 555 Marion Rd., Columbus 7, Ohio.

Bell Television, 147 West 42nd St., New York 17, N. Y.

Belmont Radio Co., Div. Raytheon Mfg. Co., 5921 W. Dickens Ave., Chicago 39, Ill.

Beltone Hearing Aid Co., Beltone Bldg., 1450 W. 19th St., Chicago 8, Ill.

Benchmark Mfg. Co., 2950 W. Pico Blvd., Los Angeles 6, Calif.

Bendix Aviation Corp., Pacific Division, 11600 Sherman Way, North Hollywood, Calif.

Bendix Radio Communications Division, Bendix Aviation Corp., Baltimore 4, Md.

Bentley-Harris Mfg. Co., Conshohocken, Pa.

Berkeley Scientific Co., Richmond, Calif.

Berkshire Laboratories, P. O. Box 70, Concord, Mass.

Berlant Associates, 4917 W. Jefferson Blvd., Los Angeles 16, Calif.

Berndt-Bach, Inc., 7377 Beverly Blvd., Los Angeles 36, Calif.

Beryllium Corp., The, Reading, Pa.

Best Manufacturing Co., Inc., 1200 Grove St., Irvington 11, N. J.

Bestcraft Products, 14 Delancey St., New York, N. Y.

Beta Electric Corp., 1762 Third Ave., New York 29, N. Y.

Biddle Co., Janes G., 1316 Arch St., Philadelphia 7, Pa.

Bird Co., Richard H., 1 Spruce St., Waltham, Mass.

Bird Electronic Corp., 1800 E. 38th St., Cleveland 14, Ohio.

Birnbach Radio Co., Inc., 145 Hudson St., New York, N. Y.

Birtcher Corp., 5087 Huntington Drive, Los Angeles 32, Calif.

Bishop & Co., J., Platinum Works, Malvern, Pa.

Bishop Mfg. Corp., 254 W. 31st St., New York 1, N. Y.

Bittermann Electric Co., Box 665, Canaan, Conn.

Biwax Corp., 3445 Howard St., Skokie, Ill.

Blaco Mfg. Co., 6541 Euclid Ave., Cleveland 3, Ohio.

Blake & Johnson Co., Waterville 48, Conn.

Blaw-Knox Co., Farmers Bank Bldg., Pittsburgh, Pa.

Bliley Electric Co., Union Station Bldg., Erie, Pa.

Blum & Co., Julius, 532 W. 22nd St., New York 11, N. Y.

Bodine Electric Co., Ohio St. & Oakley Blvd., Chicago 12, Ill.

Boehme Inc., H. O., 915 Broadway, New York 10, N. Y.

Boesch Mfg. Corp., Danbury, Conn.

Bogen Co., Inc., David, 663 Broadway, New York 12, N. Y.

Bogue Electric Mfg. Co., 52 Iowa Ave., Paterson 3, N. J.

Bomac Laboratories, Beverly, Mass.

Bond Electric Corp., Div. of Olin Industries Inc., New Haven 4, Conn.

Bond Electronics Corp., 88 Franklin Place, Summit, N. J.

Bonney Forge & Tool Works, Allentown, Pa.

Boom Electric & Amplifier Co., 1227 W. Washington Blvd., Chicago 7, Ill.

Boonton Molding Co., Boonton, N. J.

Boonton Radio Corp., Boonton, N. J.

Booth Co., Arthur E., 4124 Beverly Blvd., Los Angeles 4, Calif.

Boots Aircraft Nut Corp., 50 John St., Stamford, Conn.

Borden Co., The, Chemical Div., 350 Madison Ave., New York 17, N. Y.

Borthig Co., Inc., George C., P. O. Box 115, East Rutherford, N. J.

Boston Insulated Wire & Cable Co., 63 Bay St., Boston 25, Mass.

Boulin Instrument Corp., 65 Madison Avenue, New York 16, N. Y.

Bound Brook Oil-Less Bearing Co., Bound Brook, N. J.

Bowen & Co., Inc., 4712 Bethesda Ave., Bethesda, Md.

Bowers Battery & Spark Plug Co., Reading, Pa.

Bowser Inc., Refrigeration Div., Terryville, Conn.

Bozak, R. T., 90 Montrose Ave., Buffalo 14, N. Y.

Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.

Bradley Labs., Inc., 82 Meadow St., New Haven 10, Conn.

Bradshaw Instruments Co., 348 Livingston St., Brooklyn 17, N. Y.

Brady Co., W. H., 815 N. Third St., Milwaukee 3, Wis.

Brainin Co., C. S., 320 Washington St., Mt. Vernon, N. Y.

Brand & Co., Wm., Willimantic, Conn.

Brandywine Fibre Co., 15th & Poplar Sts., Wilmington, Del.

Branson Instruments, Inc., 438 Fairfield Ave., Stamford, Conn.

Branston Electric Mfg. Co., Inc., 62-65 Gill Pl., Buffalo 22, N. Y.

Breeze Corpn., Inc., 41 S. Sixth St., Newark 7, N. J.

Brelco Electronics Corp., 55 Vandam St., New York 13, N. Y.

Breon Laboratories, 1520 Evergreen Rd., Williamsport, Pa.

Bridgeport Brass Co., 30 Grand St., Bridgeport, Conn.

Bright Star Battery Co., 200 Crooks Ave., Clifton, N. J.

Brinnell Company, The, Granby, Conn.

Bristol Co., The, Waterbury 20, Conn.

Bristol Motor Co., Old Saybrook, Conn.

British Industries Corp., 164 Duane St., New York 13, N. Y.

Broadcasting Program Service, 23 W. 45th St., New York 19, N. Y.

Brociner Electronics Lab., 1546 Second Ave., New York 28, N. Y.

Brociner-Mass Instruments, Inc., 1546 Second Ave., New York 28, N. Y.

Brook Electronics, Inc., 34 DeHart Place, Elizabeth, N. J.

Brown-Bridge Mills, Inc., Troy, Ohio.

Brown Electro-Measurement Corp., 4637 SE Hawthorne Blvd., Portland 15, Ore.

Browning Laboratories, Inc., 750 Main St., Winchester, Mass.

Bruning Co., Inc., Charles, 4754 Montrose Ave., Chicago 41, Ill.

Brush Beryllium Co., The, 4301 Chester Ave., Cleveland 14, Ohio.

Brush Development Company, The, 3405 Perkins Ave., Cleveland 14, Ohio.

Buchanan Electrical Products Corp., 1290 Central Ave., Hillside, N. J.

Buchmann Spark-Wheel Corp., 4-20 47th Ave., Long Island City 1, N. Y.

Buck Engineering Co., 37-41 Marcy St., Freehold, N. J.

Bud Radio, Inc., 2118 E. 55th St., Cleveland 3, Ohio.

Buda Co., The, Harvey, Ill.

Buggie & Co., H. H., 726 Stanton St., Toledo, Ohio.

Buhl Optical Co., 1009 Beech Ave., Pittsburgh 12, Pa.

Bundy Tubing Co., 8109 E. Jefferson Ave., Detroit 14, Mich.

Bunnell and Co., J. H., 81 Prospect St., Brooklyn, N. Y.

Burgess Battery Co., Battery Div., Freeport, Ill.

Burke Electric Co., 12th & Cranberry Sts., Erie, Pa.

Burling Instrument Co., 253 Springfield Ave., Newark 3, N. J.

Burlington Instrument Co., Burlington, Iowa.

Burndy Engineering Co., Inc., 107 Bruckner Blvd., New York 54, N. Y.

Burnell & Co., 45 Warburton Ave., Yonkers 2, N. Y.

Burnett Radio Lab., Wm. W. L., 4814 Idaho St., San Diego, Calif.

Burnley Battery & Mfg. Co., Clay St., North East, Pa.

Bussmann Mfg. Co. St. Louis 7, Mo.

C.G.S. Laboratories, Inc., 36 Ludlow St., Stamford, Conn.

C-0-Two Fire Equipment Co., P. O. Box 390, U. S. Highway 1, Newark 1, N. J.

Caddell-Burns Mfg. Co., 480 Broome St., New York 13, N. Y.

Calbest Engineering & Electronics Co., 828 N. Highland Ave., Hollywood 38, Calif.

Calidyne Co., The, 751 Main St., Winchester, Mass.

Califone Corp., 1041 N. Sycamore Ave., Hollywood 38, Calif.

Caltron Co., 1406 So. Hobart Blvd., Los Angeles 6, Calif.

Cambridge Thermionic Corp., 445 Concord Ave., Cambridge, Mass.

Camburn, Inc., 32-40 57th St., Woodside, N. Y.

Camera Equipment Co., 1600 Broadway, New York, N. Y.

Camloc Fastener Corp., 420 Lexington Ave., New York 17, N. Y.

Canadian Radium & Uranium Corp., 630 Fifth Ave., New York 20, N. Y.

Cannon Co., C. F., Springwater, N. Y.

Cannon Electric Development Co., 3209 Humboldt St., Los Angeles 31, Calif.

Canoga Corp., 14315 Bessemer St., P. O. Box 361, Van Nuys, Calif.

Capehart-Farnsworth Corp., Fort Wayne, Indiana.

Capps & Co., Inc., Frank L., 244 W. 49th St., New York 19, N. Y.

Carboloy Company Inc., 11139 E. Eight Mile Blvd., Detroit 32, Mich.

Carbonneau Industries, Inc., Grand Rapids, Mich.

Carborundum Co., The, Global Div., Niagara Falls, N. Y.

Carby Mfg. Co., Inc., 62 Cottage Place, Waterbury 5, Conn.

Cardwell Mfg. Corp., Allen D., 97 Whiting St., Plainville, Conn.

Carnegie Illinois Steel Corp., U. S. Steel Corp. Sub., Carnegie Building, Pittsburgh, Pa.

Carnine & Bitter, 2332 Ontario Rd., NW, Washington 9, D. C.

Carol Cable Co., 190 Middle St., Pawtucket, R. I.

Carpenter Steel Co., Union, N. J.

Carpenter Steel Co., The, 142 West Bern St., Reading, Pa.

Carron Mfg. Co., 415 S. Aberdeen St., Chicago, Ill.

Carson Micrometer Corp., 2 E. Main St., Little Falls, N. J.

Carter Motor Co., 2646 N. Maplewood Ave., Chicago 47, Ill.

Carter Parts Co., 213 Institute Place, Chicago 10, Ill.

Cascade Television Co., 179 South St., Newark, N. J.

Castlewood Mfg. Co., 12th & Burnett Sts., Louisville, Ky.

Catalin Corp. of America, 1 Park Ave., New York 16, N. Y.

Celanese Corp. of America, 180 Madison Ave., New York 16, N. Y.

Celomat Corp., 521 W. 23rd St., New York, N. Y.

Central Paper Co., Inc., 2400 Lakeshore Drive, Muskegon, Michigan.

Central Scientific Co., 1700 Irving Park Rd., Chicago 13, Ill.

Central Screw Co., 3501 Shields Ave., Chicago 9, Ill.

Centralab, Div. of Globe Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.

Century Electric Co., 1806 Pine St., St. Louis 3, Mo.

Century Geophysical Corp., 1333 North Utica, Tulsa, Oklahoma.

Cerro de Pasco Copper Corp., 40 Wall St., New York 5, N. Y.

Chace Co., W. M., 1600 Beard Ave., Detroit, Mich.

Chandler Products Co., 1491 Chardon Rd., Cleveland, Ohio.

Channel Master Co., Ellenville, N. Y.

Chase Brass & Copper Co., Inc., Waterbury 91, Conn.

Chaslyn Co., The, 1952 Irving Park Rd., Chicago 13, Ill.

Chatham Electronics Corp., 475 Washington St., Newark 2, N. J.

Chatillon & Sons, John, 93 Cliff St., New York 7, N. Y.

Cherry Rivet Co., 231 Winston Street, Los Angeles 13, Calif.

Chester Cable Corp., Chester, N. Y.

Chicago Condenser Corp., 3255 W. Armitage Ave., Chicago 47, Ill.

Chicago Die Mold Mfg. Co., 4001 Wrightwood Ave., Chicago 39, Ill.

Chicago Expansion Bolt Co., 1338 W. Concord Pl., Chicago 22, Ill.

Chicago Metal Hose Corp., 1309 S. Third Ave., Maywood, Ill.

Chicago Rivet & Machine Co., 9600 W. Jackson Blvd., Chicago, Ill.

Chicago Telephone Supply Corp., 1142 W. Beardsley Ave., Elkhart, Ind.

Chicago Transformer Div., Essex Wire Corp., 3501 W. Addison St., Chicago 18, Ill.

Cima Corp., 91 Boylston St., Jamaica Plains 30, Mass.

Cinaudograph Speakers Inc., Div. of Aireon Mfg. Corp., 1401 Fairfax Trafficway, Kansas City, Kansas.

Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill.

Cinema Engineering Co., 1510 W. Verdugo Ave., Burbank, Calif.

Citation Products Co., 233 E. 146th St., New York 51, N. Y.

Clare & Co., C. P., 4719 Sunnyside Ave., Chicago 30, Ill.

Clarendon Glass Blowing Co., 772 Second St., Secaucus, N. J.

Clark Controller Co., 1146 E. 152nd St., Cleveland 10, Ohio.

Clark Crystal Co., 2 Farm Rd., Marlboro, Mass.

Clark Electronic Labs., Box 165, Palm Springs, Calif.

Clarke Instrument Corp., 910 King St., Silver Spring, Md.

Clarkstan Corp., 11927 SW. Pico Blvd., Los Angeles 64, Calif.

Clarostat Mfg. Co., Inc., Dover, N. H.

Clearprint Paper Co., 677 Folsom St., San Francisco, Calif.

Cleveland Container Co., The, 6201 Barberton Ave., Cleveland 2, Ohio.

Cleveland Electronics, Inc., 6611 Euclid Ave., Cleveland, Ohio.

Cleveland Tungsten, Inc., 10200 Meech Ave., Cleveland, Ohio.

Clippard Instrument Laboratory, Inc., 1125 Bank St., Cincinnati 14, Ohio.

Clough Brengle Co., 6014 N. Broadway, Chicago, Illinois.

Coastwise Electronics Co. Inc., 130 N. Beaudry Ave., Los Angeles, Calif.

Cohan-Epner Co., Inc., 142 W. 14th St., New York 11, N. Y.

Cohn Corp., Sigmund, 44 Gold St., New York, N. Y.

Coil Winders Inc., 61 Bergen St., Brooklyn 2, N. Y.

Coil-O-Matic Co., 470 Atlantic Ave., Boston 10, Mass.

Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.

Cole Instrument Co., 1320 S. Grand Ave., Los Angeles 15, Calif.

Cole Radio Works, 86 Westville Ave., Caldwell, N. J.

Coleman Instruments, Inc., 318 Madison St., Maywood, Illinois.

Colgate Mfg. Corp., Lindenhurst, L. I., N. Y.

Collins Audio Products Co., P. O. Box 368, Westfield, N. J.

Collins Radio Co., Cedar Rapids, Iowa.

Collyer Insulated Wire Co., 249 Roosevelt Ave., Pawtucket, R. I.

Colonial Insulator Co., The, 907 Grant St., Akron 11, Ohio.

Columbia Electric Mfg. Co., 4519 Hamilton Ave., N. E., Cleveland 14, Ohio.

Columbia Metal Box Co. Co., 260 E. 143rd St., New York, N. Y.

Columbia Nut & Bolt Co., 945 Main St., Bridgeport 3, Conn.

Columbia Wire & Supply Co., 2850 Irving Park Rd., Chicago 18, Ill.

Comar Electric Co., 3148 N. Washtenaw Ave., Chicago 18, Ill.

Combustion Control Corp., 77 Broadway, Cambridge 42, Mass.

Combustion Research Laboratories, Inc., 104-18 Metropolitan Ave., Forest Hills, N. Y.

Commercial Equipment Co., Inc., Box 168, Lawrence, Kansas.

Commercial Radio Sound Corp., 575 Lexington Ave., New York 22, N. Y.

Commercial Research Labs. Inc., 20 Bartlett Ave., Detroit 3, Michigan.

Communication Accessories Co., Box 345, 110th St. & Hillcrest Rd., Hickman Hills, Mo.

Communication Measurements Lab. Inc., 120 Greenwich St., New York, N. Y.

Communication Products Company, Inc., Broadway & Clark St., Keyport, N. J.

Communications Co., Inc., 300 Greco Ave., Coral Gables 34, Fla.

Conant Labs., 6500 "O" St., Lincoln 5, Nebraska.

Condenser Products Co., 1375 N. Branch St., Chicago 22, Ill.

Conn Ltd., C. G., Electronics Div., Elkhart, Ind.

Connecticut Hard Rubber Co., 407 East St., New Haven 9, Conn.

Connecticut Telephone & Electric Div., Great American Industries, 70 Britannia St., Meriden, Conn.

Consolidated Engineering Corp., 620 N. Lake Ave., Pasadena 4, Calif.

Consolidated Molded Products Corp., Scranton 2, Pa.

Consolidated Wire & Associated Companies, 1635 S. Clinton St., Chicago 16, Illinois.

Continental Carbon, Inc., 13900 Lorain Ave., Cleveland 11, Ohio.

Continental Diamond Fibre Co., 16 Chapel St., Newark 16, Delaware.

Continental Electric Co., Geneva, Ill.

Continental Electric Co., Inc., 334 Ferry St., Newark 5, N. J.

Continental Electronics Mfg. Co., 1728 Wood St., Dallas 1, Texas.

Continental Screw Co., New Bedford, Mass.

Control Corp., 718 Central Ave., Minneapolis 14, Minn.

Control Engineering Corp., 863 Washington St., Canton, Mass.

Cook Electric Co., 2700 Southport Ave., Chicago 14, Ill.

Cook Laboratories, 139 Gordon Blvd., Floral Park, N. Y.

Cooper Electronic Products Co., 5106 Frankford Ave., Philadelphia 24, Pa.

Copperwell Steel Co., Glassport, Pa.

Coral Designs, P. O. Box 248, Forest Hills, N. Y.

Corbin Screw Division, American Hardware Corp., High Myrtle & Grove Sts., New Britain, Conn.

Cornell Dubilier Electric Corp., South Plainfield, N. J.

Corning Glass Works, Corning, N. Y.

Cornish Wire Co., 15 Park Row, New York 7, N. Y.

Corona Engineering Service, 94-52 Corona Ave., Elmhurst, N. Y.

Coronet Radio & Television Corp., 500 W. 52nd St., New York 19, N. Y.

Cosmic Radio Corp., 853 Whittier St., New York 59, N. Y.

Cossor (Canada) Ltd., 301-303 Windsor St., Halifax, N. S., Canada.

Coto-Coil Co., Inc., 65 Pavilion Ave., Providence 5, R. I.

Craft Mfg. Co., 3949 W. Schubert St., Chicago, Ill.

Cramer Co., Inc., R. W., Box 13, Centerbrook, Conn.

Crane Packing Co., 1800 Cuyler Ave., Chicago 13, Ill.

Crescent Industries, Inc., 4140 Belmont Ave., Chicago 41, Ill.

Crest Transformer Corp., 1834-36 W. North Ave., Chicago 22, Ill.

Crestwood Recorder Corp., 624 W. Adams, Chicago 6, Ill.

Croname, Inc., 3701 Ravenswood Ave., Chicago, Ill.

Crosley Div., Avco Mfg. Corp., Cincinnati 25, Ohio.

Cross Co., H., 15 Beekman St., New York, N. Y.

Crowley & Co. Inc., Henry L., 1 Central Ave., West Orange, N. J.

Crown Capacitor Corp., Minot & Depot Sts., Wrentham, Mass.

Crucible Steel Co. of America, 405 Lexington Ave., New York 17, N. Y.

Crystal Research Labs. Inc., 29 Allyn St., Hartford, Conn.

Curtis Development and Mfg. Co., 1 N. Crawford Ave., Chicago 24, Ill.

Custom Craft Mfg. Co., 256 E. 98th St., Brooklyn, N. Y.

Cutler Metal Products Co., Camden, N. J.

Cutler-Hammer, Inc., 411 No. 12th St., Milwaukee 1, Wis.

Cuyahoga Spring Co., 10272 Berea Rd., Cleveland, Ohio.

Cycle Electronic Laboratories, 14 Northfield Ave., West Orange, N. J.

Cyclohm Motor Corp. Div., Howard Industries, Inc., Racine, Wis.

Cyclotron Specialties Co., Moraga 8, Calif.

DX Radio Products Co. Inc., 2304 Armitage Ave., Chicago 47, Ill.

Dallons Labs., 5066 Santa Monica Blvd., Los Angeles, Calif.

Dalmo Victor Co., 1414 El Camino Real, San Carlos, Calif.

Dano Electric Co., Main St., Winsted, Conn.

Dante Electric Mfg. Co., Bantam, Conn.

Daven Co., 191 Central Ave., Newark 4, N. J.

Davies Laboratories, Inc., 4705 Queensbury Rd., Riverdale, Md.

Davis & Co., Dean W., Kentland, Ind.

Davis Electric Co., Cape Girardeau, Mo.

Dayco Radio Corp., 915 Valley St., Dayton 4, Ohio.

Decca Records, Inc., 50 W. 57th St., New York 19, N. Y.

Decimeter Inc., 1430 Market St., Denver 2, Colorado.

De Coursey Engineering Lab., P. O. Box 235, Los Angeles 25, Calif.

Deitz Co., S. J., Box 65, W. Englewood, N. J.

Deitz Miracle Lens Co., 141 President St., Passaic, N. J.

DeJur-Amsco Corp., Northern Blvd. at 45th St., Long Island City 1, N. Y.

De Laval Separator Co., 165 Broadway, New York 6, N. Y.

Delco Appliance Div., General Motors Corp., 391 Lyell Ave., Rochester, N. Y.

Delco Radio Div., General Motors Corp., Kokomo, Ind.

Delmhorst Instrument Co., 115 Cornelia St., Boonton, N. J.

Designers for Industry, Inc., 2915 Detroit Ave., Cleveland 13, Ohio.

Deutschmann Corp., Tobe, 921 Providence Highway, Norwood, Mass.

DeWald Radio Mfg. Corp., 35-15 37th Ave., Long Island City, N. Y.

Dial Light Co. of America, Inc., 900 Broadway, New York 3, N. Y.

Diamond Drill Carbon Co., 53-63 Park Row, New York 7, N. Y.

Diamond Mfg. Co., Wakefield, Mass.

Diamond Wire & Cable Co., Sycamore, Ill.

Dictaphone Corp., 420 Lexington Ave., New York 17, N. Y.

Diehl Manufacturing Co., 1129 Finnerne Ave., Somerville, N. J.

Dielectric Materials Co., 5315-17 N. Ravenswood Ave., Chicago 40, Ill.

Dielectric Products Co., Inc., 125 Virginia Ave., Jersey City 5, N. J.

Dietz Design & Mfg. Co., 5810 Park Ave., Kansas City 4, Mo.

Dietzen Co., Eugene, 2425 Sheffield Ave., Chicago, Ill.

Dilks Co., The, Seymour, Conn.

Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.

Dimco-Gray Co., 207 E. Sixth St., Dayton, Ohio.

Dinion Coil Co., Inc., Caledonia, N. Y.

Distillation Products Industries, Vacuum Equip. Div., 755 Ridge Rd. W., Rochester 3, N. Y.

Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill.

Dixon Crucible Co., Joseph, Jersey City, N. J.

Dobeckmun Co., The, Industrial Products Div., Cleveland 1, Ohio.

Dolph Co., John C., Monmouth Junction, N. J.

Donnelly Electric & Mfg. Co., 3050 Washington St., Boston, Mass.

Doolittle Radio, Inc., 7421 S. Loomis Blvd., Chicago 36, Ill.

Dormitzer Electric & Mfg. Co., Inc., 89 Brighton Ave., Boston 34, Mass.

Douglas Radio Labs., 40 Wayland St., Boston 25, Mass.

Dow Chemical Co., Midland, Mich.

Dow Corning Corp., Midland, Mich.

Drake Electric Works, 3656 Lincoln Ave., Chicago 13, Ill.

Drake Mfg. Co., 1713 Hubbard St., Chicago, Ill.

Dresser Electric Co., 942 E. Larned St., Detroit 7, Mich.

Driver Co., Wilbur B., 150 Riverside Ave., Newark 4, N. J.

Driver-Harris Co., 201 Middlesex St., Harrison, N. J.

Dual-Remote Control Co., Garden City, Mich.

Dumont Electric Co., 308 Dyckman St., New York, N. Y.

DuMont Laboratories, Inc., Allen B., Electronic Parts Div., Market St., East Paterson, N. J.

DuMont Laboratories, Inc., Allen B., Instrument Div., 1000 Main Ave., Clifton, N. J.

DuMont Laboratories, Inc., Allen B., Television Receiver Div., Market St., East Paterson, N. J.

DuMont Laboratories, Inc., Allen B., Television Transmitter Div., 1000 Main Ave., Clifton, N. J.

DuMont Laboratories, Inc., Allen B., Tube Div. & General Offices, 750 Bloomfield Ave., Clifton, N. J.

Dumore Co., The, 1300 Seventeenth St., Racine, Wis.

Duotone Co., Keyport, N. J.

du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

du Pont de Nemours & Co., Inc., E. I., Patterson Screen Div., Towanda, Pa.

Durakool, Inc., 1010 N. Main St., Elkhart, Ind.

Durez Plastics & Chemicals, Inc., 1921 Walck Rd., North Tonawanda, N. Y.

Dynamic Air Engineering Inc., 1619 S. Alameda St., Los Angeles, Calif.

Dzus Fastener Co., Inc., Box 785, Babylon N. Y.

Eagle Electric Mfg. Co., Inc., 23-10 Bridge Plaza S., Long Island City, N. Y.

Eagle Pencil Co., 703 E. 13th St., New York, N. Y.

Eagle Signal Corp., Moline, Ill.

Eastern Air Devices Inc., 585 Dean St., Brooklyn 17, N. Y.

Eastern Case Co., 55 S. 11th St., Brooklyn 11, N. Y.

Eastern Metals Industries, 250 W. 54th St., New York 19, N. Y.

Eastern Mike-Stand Co., 56 Christopher Ave., Brooklyn 12, N. Y.

Eastern Smelting & Refining Corp., 107-109 W. Brookline St., Boston 18, Mass.

Eastern Specialty Co., Philadelphia 40, Pa.

Eastman Kodak Co., Industrial Photographic Sales Div., 343 State St., Rochester 4, N. Y.

Easy-Up Tower Co., 3800 Kinzie Ave., Racine, Wis.

Eberhard Faber Pencil Co., 37 Greenpoint Ave., Brooklyn 22, N. Y.

Ebert Electronics Corp., 185-09 Jamaica Ave., Hollis 9, N. Y.

Eby, Inc., Hugh H., 4700 Stenton Ave., Philadelphia 44, Pa.

Ecco High Frequency Corp., 7020 Hudson Blvd., North Bergen, N. J.

Eckert-Mauchly Computer Corp., 3747 Ridge Ave., Philadelphia 32, Pa.

Ekstein Radio & Television Co., Le Roy, Minn.

Eclipse Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.

Economy Fuse & Mfg. Co., 2717 Greenview Ave., Chicago 14, Ill.

Edin Electronics Co., 207 Main St., Worcester, Mass.

Edison, Inc., Thomas A., 51 Lakeside Ave., West Orange, N. J.

Edison, Inc., Thomas A., Instrument Div., West Orange, N. J.

Edison Storage Battery Div. of Thomas A. Edison, Inc., Main St. at Lakeside Ave., W. Orange, N. J.

Edo Corp., College Point, Long Island, N. Y.

Egyptian Lacquer Mfg. Co., Lafayette, Ind.

Eicor, Inc., 1501 W. Congress St., Chicago 7, Ill.

Eidson Electronic Co., 1802 N. Third St., Temple, Texas.

Eisler Engineering Co., Inc., 740 S. 13th St., Newark 3, N. J.

Eitel-McCullough, Inc., San Bruno, Calif.

Elastic Stop Nut Corp., 2330 Vauxhall Rd., Union, N. J.

Elco Mfg. Co. Div. of Electro-Connector Corp., 110 W. Oxford St., Phila. 22, Pa.

Electran Mfg. Co., 4596 Elston Ave., Chicago 30, Ill.

Electric Auto-Lite Co., The, Toledo 1, Ohio

Electric Design & Mfg. Corp., Burlington, Iowa

Electric Eye Equipment Co., 16 W. Fairchild St., Danville, Ill.

Electric Heat Control Co., The, 9123 Inman Ave., Cleveland 5, Ohio

Electric Indicator Co., 21 Parker Ave., Stamford, Conn.

Electric Motor Corp. Div., Howard Industries, Inc., Racine, Wis.

Electric Products Co., 1725 Clarkstone Rd., Cleveland, 12, Ohio

Electric Regulator Corp., 1938 Park Ave., New York 35, N. Y.

Electric Soldering Iron Co., W. Elm St., Deep River, Conn.

Electric Specialty Co., 211 South St., Stamford, Conn.

Electric Storage Battery Co., Allegheny Ave., & 19th St., Philadelphia 32, Pa.

Electric Tachometer Corp., 2218 Vine St., Philadelphia, 3, Pa.

Electrical Coil Winding Co., 2733 Saunders St., Camden, N. J.

Electrical Industries, Inc., 44 Summer Ave., Newark 4, N. J.

Electrical Reactance Corp., Elm St., Franklinville, N. Y.

Electrical Refractories Co., 50 Clark St., East Palestine, Ohio

Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill.

Electricoil Transformer Co., Westerly Rd., Ossining, N. Y.

Electro-Aire, Inc., 11439 Vanowen St., North Hollywood, Calif.

Electro Engineering & Mfg. Co., 627 W. Alexandrine, Detroit 1, Mich.

Electro Engineering Works, 6021 College Ave., Oakland 18, Calif.

Electro-Mechanical Instrument Co., 812 Chestnut St., Perkasie, Pa.

Electro-Mechanical Research, Inc., Ridgefield, Conn.

Electro-Medical Lab., Inc., Holliston, Mass.

Electro Metallurgical Division, Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.

Electro Motive Mfg. Co., South Park & John St., Willimantic, Conn.

Electro-Nite Carbon Co., 1133 E. Columbia Ave., Phila. 25, Pa.

Electro Products Labs., 549 W. Randolph St., Chicago 6, Ill.

Electro-Seal Corp., 946 Lee St., Des Plaines, Ill.

Electro Tec Corp., 53 Bergen Turnpike, Little Ferry, N. J.

Electro-Voice, Inc., Buchanan, Mich.

Electro-Wire Service, 5 Beekman St., New York 7, N. Y.

Electrodyne Company 32 Oliver St., Boston, Mass.

Electrofax Corp., 30 Burtis Ave., New Canaan, Conn.

Electron Equipment Corp., 917 Meridian Ave., South Pasadena, Calif.

Electronic Associates, Inc., Long Branch, N. J.

Electronic Batteries Inc., Bush Terminal Bldg. No. 4, 28-34 35th St., Brooklyn 32, N. Y.

Electronic Brazing Co., 140 Glenridge Ave., Montclair, N. J.

Electronic Coils, Inc., P. O. Box 1641, 44 Taylor St., Springfield, Mass.

Electronic Control Corp., 1573 E. Forest St., Detroit, Mich.

Electronic Controls Co. of New York, 3124 Avenue I, Brooklyn 10, N. Y.

Electronic Designs, Inc., Irvington, N. Y.

Electronic Engineering Co., 616 G St., San Diego 1, Calif.

Electronic Engineering Corp., 624 Ridge Rd., Lyndhurst, N. J.

Electronic Enterprises, Inc., 65 7th Ave., Newark 4, N. J.

Electronic Equipment & Instrument Co., Inc., 23 S. Arch St., Philadelphia 3, Pa.

Electronic Indicator Corp., 53 Wyckoff St., Brooklyn, N. Y.

Electronic Instrument Co., Inc., 276 Newport St., Brooklyn 12, N. Y.

Electronic Mfg. Co., 20 Orange St., Newark, N. J.

Electronic Measurements Co., Red Bank, N. J.

Electronic Measurements Corp., 423 Broome St., New York 13, N. Y.

Electronic Mechanical Products Co., 13-15-17 N. Virginia Ave., Atlantic City, N. J.

Electronic Mechanics, Inc., 70 Clifton Blvd., Clifton, N. J.

Electronic Processes Corp., 260 N. First St., San Jose 18, Calif.

Electronic Products Co., 111 E. 3rd St., Mt. Vernon, N. Y.

Electronic Products Div., Epco Products, Inc., 2430 Atlantic Ave., Brooklyn 33, N. Y.

Electronic Rectifier Inc., 737 N. East St., Indianapolis, Ind.

Electronic Specialty Co., 3456 Glendale Blvd., Los Angeles 39, Calif.

Electronic Transformer Co., Inc., 215 W. 25th St., New York, N. Y.

Electronic Tube Corp., 1200 E. Mermaid Ave., Philadelphia 18, Pa.

Electronic Workshop, Inc., 351 Bleecker St., New York 14, N. Y.

Electrons, Inc., 127 Sussex Ave., Newark 4, N. J.

Electrovox Co., Inc., 60 Franklin St., East Orange, N. J.

Electyme Motor Products Corp., 565 W. Washington Blvd., Chicago 6, Ill.

Elliott Mfg. Co., 218 Prospect Ave., Binghamton, N. Y.

Ellis Associates, Box 77, Pelham 65, N. Y.

Elm Laboratories, 18 South Broadway, Dobbs Ferry, N. Y.

Eipar Co., 539 Market St., Camden 2, N. J.

Eltron Inc., 407 N. Jackson St., Jackson, Mich.

El-Tronics, Inc., 2649 No. Howard St., Philadelphia 33, Pa.

Embassy Engineering Corp., 224 E. 204th St., New York 58, N. Y.

Emeloid Co., Inc., The, 1239 Central Ave., Hillside 5, N. J.

Emerson Radio & Phonograph Corp., 111 8th Ave., New York, N. Y.

Empire Coil Co., Inc., 238 Huguenot St., New Rochelle, N. Y.

Engineering Co., 27 Wright St., Newark, N. J.

Engineering Lab., Inc., 602 E. 4th St., Tulsa 3, Okla.

Engineering Research Associates, Inc., 1902 W. Minnehaha Ave., St. Paul 4, Minn.

Engineering Research Corp., Shreveport, La.

Engineers Specialties Div., Universal Engraving & Color-plate Co., 980 Ellicott St., Buffalo 9, N. Y.

Englewood Electrical Supply Co., 5801 S. Halsted St., Chicago, Ill.

Enthoven & Sons Ltd., H. J., London, England.

Eppley Lab., Inc., The, Newport, R. I.

Eraser Co., Inc., The, Rush Wire Stripper Div., 104 S. State St., Syracuse 2, N. Y.

Erco Radio Labs., Inc., East Stewart Ave., Garden City, N. Y.

Ericsson Screw Machine Products Co., 25 Lafayette St., Brooklyn 1, N. Y.

Erie Resistor Corp., 644 W. 12th St., Erie, Pa.

Espey Mfg. Co., Inc., 528 E. 72nd St., New York, N. Y.

Espy Electronic Corp., Dawkins, 11747 W. Pico Blvd., Los Angeles 34, Calif.

Ess Instrument Co., 96 So. Washington Ave., Bergenfield, N. J.

Esser, Maurice H., 113 N. Water St., Rochester 4, N. Y.

Essex Electronics, Berkeley Heights, N. J.

Essex-Riplyn Co., Hackettstown, N. J.

Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.

Esterline-Angus Co., P. O. Box 596, Indianapolis 6, Ind.

Etched Products Corp., 39-01 Queens Blvd., Long Island City, N. Y.

Etraco Mfg., Co., Inc., Woods Church Rd., Flemington, N. J.

Eureka Television & Tube Corp., 69 Fifth Ave., Hawthorne, N. J.

Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.

Executone, Inc., 415 Lexington Ave., New York 17, N. Y.

Eyeteel Tool Co., 188 Dorchester Ave., Boston, Mass.

Fada Radio & Electric Co., Inc., 525 Main St., Belleville, N. J.

Fafnir Bearing Co., Booth St., New Britain, Conn.

Fairchild Camera & Instrument Corp., 88-06 Van Wyck Blvd., Jamaica 1, N. Y.

Fairchild Recording Equipment Corp., 154th St. & 7th Ave., Whitestone, N. Y.

Falstrom Co., 44 Falstrom Court, Passaic, N. J.

Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.

Farrand Optical Co., Inc., Bronx Blvd. at 238th St., New York 66, N. Y.

Farrelloy Co., 1245 N. 26th St., Philadelphia 21, Pa.

Fasco Industries, Inc., Rochester 2, N. Y.

Fast & Co., John E., 3101 N. Pulaski Rd., Chicago 41, Ill.

Federal Electric Products Co., 50 Paris St., Newark, N. J.

Federal Engineering Co., 37 Murray St., New York 7, N. Y.

Federal Instrument Corp., 14-02 Broadway, L. I. City 2, N. Y.

Federal Screw Products Inc., 224 W. Huron St., Chicago 10, Ill.

Federal Telecommunication Labs., Inc., 500 Washington Ave., Nutley 10, N. J.

Federal Telephone and Radio Corp., 100 Kingsland Rd., Clifton, N. J.

Federal Television Corp., 137-9-41 Duane St., New York 13, N. Y.

Federal Wire & Cable Corp., Haverstraw, N. Y.

Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

Feiler Engineering Co., 1601 S. Federal St., Chicago 16, Ill.

Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill.

Felt Products Mfg. Co., 1504 W. Carroll Ave., Chicago 7, Ill.

Felters Co., The, 210 South St., Boston, Mass.

Fenwall, Inc., 43A Pleasant St., Ashland, Mass.

Ferner Co., R. Y., 110 Pleasant St., Malden, Mass.

Ferranti Electric, Inc., 30 Rockefeller Plaza, New York York 20, N. Y.

Ferris Instrument Co., 110 Cornelia St., Boonton, N. J.

Fidelitone Inc., 1616 Devon Ave., Chicago 26, Ill.

Fidelity Amplifier Co., 703 Willow St., Chicago 14, Ill.

Fidelity Chemical Products Corp., 472 Frelinghuysen Ave., Newark, N. J.

Field Electrical Instrument Co., 109 E. 184th St., New York 53, N. Y.

Fielden Electronics Inc., 1171 New York Ave., Huntington Station, N. Y.

Filtron Co., Inc., The, 38-25 Bell Blvd., Bayside, Long Island, N. Y.

Finch Telecommunications, Inc., Passaic, N. J.

Fischer & Porter Co., Harbor, Pa.

Fisher-Pierce Co., 70 Ceylon St., Boston 21, Mass.

Fisher Radio Corp., 41 East 47th Street, New York, N. Y.

Fisher Research Lab., 1961 University Ave., Palo Alto, Calif.

Fisher Scientific Co., 717 Forbes St., Pittsburgh 19, Pa.

Flader, Inc., Frederic, North Tonawanda, N. Y.

Flexo Wire Co., Inc., 70 W. First St., Oswego, N. Y.

Flight Research Engineering Corp., P. O. Box 1-F, Richmond 1, Va.

Fluke Engineering Co., John, Box 755, Springdale, Conn.

Flush Wall Radio Co., 9 W. Park St., Newark 2, N. J.

Follansbee Steel Co., 3rd & Liberty Sts., Pittsburgh 30, Pa.

Foote Brothers Gear & Machine Corp., 4545 S. Western Blvd., Chicago 9, Ill.

Foote Mineral Co., 18 W. Chelton Ave., Philadelphia 44, Pa.

Ford Engineering Co., 2738 Colorado Blvd., Los Angeles 41, Calif.

Ford Instrument Co., Inc., 31-10 Thomson Ave., Long Island City, N. Y.

Ford Radio & Mica Corp., 536 63rd St., Brooklyn, N. Y.

Fordham Mfg. Co., 2220 Pearsall Ave., New York 67, N. Y.

Foredom Electric Co., 27 Park Place, New York 7, N. Y.

Fornica Co., The, 4640 Spring Grove Ave., Cincinnati 32, Ohio.

Forty Niner Co., 5245 Grand River, Detroit 8, Mich.

Foster Transformer Co., Inc., 3820 Colerain Ave., Cincinnati 23, Ohio.

Fostoria Pressed Steel Corp., Fostoria, Ohio.

Fox Valley Instrument Co., Ingleside, Ill.

Foxboro Co., The, Foxboro, Mass.

Frankel Connector Co., 177 Hudson St., New York, N. Y.

Franklin Fibre-Lamitex Corp., 12th and French Sts., Wilmington, Delaware.

Franklin Mfg. Corp., A. W., 43-20 34th St., Long Island City 1, N. Y.

Franklin Paint & Varnish Co., Benjamin, 4820 Langdon St., Philadelphia 24, Pa.

Fredericks Co., Geo. E., Bethayres, Pa.

Freed Radio Corp., 200 Hudson St., New York, N. Y.

Freed Transformer Co., Inc. 1736 Weirfield St., Brooklyn, 27, N. Y.

Frequency Standards Corp., Box 66, Eatontown, N. J.

Friez Instrument Div., Bendix Aviation Corp., Baltimore 4, Md.

Frying Mfg. Co., 639 W. 12th St., Erie, Pa.

Fugle-Miller Laboratories, 398 Main St., Metuchen, N. J.

Fulton Slyphon Div., Robertshaw-Fulton Controls Co., Knoxville 4, Tenn.

Furst Electronics, 10A S. Jefferson St., Chicago 6, Ill.

Fusite Corp., Carthage at Hannaford, Cincinnati 12, Ohio

G-M Laboratories, Inc., 4313 N. Knox Ave., Chicago, Ill.

Gadgets Inc., 3269 N. Dixie Drive, Dayton 5, Ohio

Gaertner Scientific Corp., 1201 Wrightwood Ave., Chicago 14, Ill.

Galbraith & Sons, Inc., C. C., 450-54 Avenue of the Americas, New York 12, N. Y.

Gale Dorothea Mechanisms, 37-61 85th St., Jackson Heights, L. I., N. Y.

Gamewell Co., The, Newton Upper Falls 64, Mass.

Gardner Lab., Inc., Henry A., 4723 Elm St., Bethesda 14, Md.

Garlock Packing Co., Palmyra, N. Y.

Garod-Majestic Corp., 71 Washington St., Brooklyn 1, N. Y.

Garrard Sales Corp., 164 Duane St., New York 13, N. Y.

Garrett Co., Inc., George K., D & Tioga Sts., Philadelphia 34, Pa.

Gates Radio Co., Quincy, Ill.

Gatti, Inc., Aurele M., 524 E. Washington St., Trenton, N. J.

Gaveco Labs., Inc., 2 East End Ave., New York 21, N. Y.

Gear Specialties, 2635 W. Medill Ave., Chicago 47, Ill.

Gemloid Corp., 79-10 Albion Ave., Elmhurst, N. Y.

General Cable Corp., 420 Lexington Ave., New York 17, N. Y.

General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill.

General Ceramics & Steatite Corp., Keasbey, N. J.

General Communication Co., 530 Commonwealth Ave., Boston 15, Mass.

General Control Company, 1200 Soldiers Field Rd., Boston 34, Mass.

General Controls Co., Glendale 1, Calif.

General Dry Batteries, Inc., 13000 Athens Ave., Cleveland, Ohio

General Electric Co., Apparatus Dept., Schenectady, 5, N. Y.

General Electric Co., Chemical Dept., Pittsfield, Mass.

General Electric Co., Construction Materials Dept., 1285 Boston Ave., Bridgeport 2, Conn.

General Electric Co., Electronics Dept., Electronics Park, Syracuse 5, N. Y.

General Electric Co., Electronics Dept., Tube Div., Schenectady 5, N. Y.

General Electric Co., Lamp Dept., Nela Park, Cleveland 12, Ohio

General Electric X-Ray Corp., 4855 W. McGeoch Ave., Milwaukee, Wis.

General Electronics, Inc., 101 Hazel St., Paterson, N. J.

General Industries Co., Taylor and Olive Sts., Elyria, Ohio.

General Instrument Corp., 829 Newark Ave., Elizabeth 3, N. J.

General Insulated Wire Works, Inc., 69 Gordon Ave., Providence 5, R. I.

General Magnetic Corp., 10001 Erwin Ave., Detroit 5, Mich.

General Photo Products Co., Inc., 15 Summit Ave., Chatham, N. J.

General Plate Division, Metals & Controls Corp., Attleboro, Mass.

General Precision Lab., Inc., Pleasantville, N. Y.

General R-F Fittings Co., 126 Dartmouth St., Boston 16, Mass.

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.

General Tire & Rubber Co., The, Silentbloc Division, Washab, Ind.

General Transformer Co., 18240 Harwood Ave., Homewood, Ill.

Geophysical Instrument Co., 1820 N. Nash St., Arlington, Va.

George Co., P. D., 5200 N. 2nd St., St. Louis, Mo.

Gerett Corp., M. A., 724 W. Winnebago St., Milwaukee 5, Wis.

Gertsch Products, Inc., 11846 Mississippi Ave., Los Angeles 25, Calif.

Gibbs Division, George W. Borg Corp., Delavan, Wis.

Gibson Electric Co., 8361 Frankstown Ave., Pittsburgh 21, Pa.

Gilfilan Bros., Inc., 1815 Venice Blvd., Los Angeles 6, Calif.

Girard-Hopkins, 1000 40th Ave., Oakland 1, Calif.

Girdler Corp., Thermex Div., 224 E. Broadway, Louisville 1, Ky.

Gisholt Machine Co., 1245 E. Washington Ave., Madison 3, Wis.

Gits Molding Corp., 4600 W. Huron St., Chicago 44, Ill.

Glaser Lead Co., Inc., 31 Wyckoff Ave., Brooklyn, N. Y.

Glaser-Steers Corp., 2 Main St., Belleville 9, N. J.

Geason-Avery Inc., Auburn, N. Y.

Glenco Corp., Metuchen, N. J.

Globe Industries, 125 Sunrise Pl., Dayton, Ohio.

Globe Phone Mfg. Co., 2 Linden St., Reading, Mass.

Globe Products Corp., P. O. Box 197, Southport, Conn.

Glyco Products Co., Inc., 26 Court St., Brooklyn, N. Y.

Goat Co., Inc., Fred, 314 Dean St., Brooklyn, N. Y.

Godfrey Mfg. Co., 171 S. 2nd St., Milwaukee 4, Wis.

Goldmark Wire Co., James, The, 75 Murray St., New York 7, N. Y.

Gonset Co., 72 E. Tujunga Ave., Burbank, Calif.

Goodmans Industries, Ltd., Lancelot Rd., Wembley, Mid-diesex, England.

Goodrich Chemical Co., B. F., Rose Bldg., Cleveland 15, Ohio.

Goodyear Tire & Rubber Co., Inc., Chemical Div., 1144 E. Market St., Akron 16, Ohio.

Gordon Co., Claud S., 3000 S. Wallace St., Chicago 16, Ill.

Gordon Specialties Co., 906 W. North Ave., Chicago 22, Ill.

Gorham Co., Bronze Div., Providence 7, R. I.

Gorrell & Gorrell, Haworth, N. J.

- Goslin Electric and Manufacturing Co., 2921 W. Olive St., Burbank, Calif.
- Gothard Mfg. Co., 2110 Clear Lake Ave., Springfield, Ill.
- Gould Storage Battery Corp., 35 Neoga St., DePew, N. Y.
- Gow-Mac Instrument Co., 22 Lawrence St., Newark 5, N. J.
- Grady Instrument Co., 689 Belmont St., Belmont 78, Mass.
- Grafo Colloids Corp., Sharon, Pa.
- Gramer Company, The, 2734 N. Pulaski Rd., Chicago 39, Ill.
- Grammes & Sons, Inc., L. F., 389 Union St., Allentown 2, Pa.
- Grant Pulley & Hardware Co., 57th St. and Broadway, Woodside, L. I., N. Y.
- Graphite Metallizing Corp., 1041 Nepperhan Ave., Yonkers 3, N. Y.
- Grass Instrument Co., 101 Old Colony Ave., Quincy, Mass.
- Gray Mfg. Co., The, 16 Arbor St., Hartford, Conn.
- Gray Radio Co., 501 Forest Hill Blvd., W. Palm Beach, Fla.
- Gray Research & Development Co., 16 Arbor St., Hartford 1, Conn.
- Grayhill, 4524 W. Madison St., Chicago 24, Ill.
- Great Lakes Electric Mfg. Co., 17 S. Desplaines St., Chicago 6, Ill.
- Green Electric Co., W., 130 Cedar St., New York, N. Y.
- Green Instrument Co., 385 Putnam Ave., Cambridge, Mass.
- Greene Mfg. Corp., G. G., Warren, Pa.
- Greenhut Insulation Co., 31 W. 21st St., New York 10, N. Y.
- Gregory Mfg. Co., Inc., The, 67 Franklin St., New Haven 11, Conn.
- Greylin Co., Box 258, Chicago 90, Ill.
- Gries Reproducer Corp., 100 Willow Ave., New York 54, N. Y.
- Griggs-Allison Co., Inc., 407 N. Salem Ave., Arlington Heights, Ill.
- Guardian Electric Mfg. Co., 1621 W. Walnut St., Chicago 12, Ill.
- Guardian Electronics Corp., 614 W. 51st St., New York 19, N. Y.
- Gulton Mfg. Corp., Metuchen, N. J.
- Guthman, Inc., Edwin I., 15 S. Throop St., Chicago, Ill.
- Haberland Mfg. Co., P. O. Box 476, Passaic, N. J.
- Haft & Sons, Inc., 79 Third St., Brooklyn 31, N. Y.
- Hagen Mfg. Co., Inc., Baraboo, Wis.
- Hague & Co., Inc., Alfred, 227 34th St., Brooklyn, N. Y.
- Halldorson Co., The, 4500 Ravenswood Ave., Chicago 40, Ill.
- Hallett Mfg. Co., 1601 Florence Ave., Inglewood, Calif.
- Hallicrafters Co., 4401 W. Fifth Ave., Chicago 24, Ill.
- Haloid Co., The, 6 Haloid St., Rochester, N. Y.
- Halowax Products Division, Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
- Hammarlund Mfg. Co., 460 W. 34th St., New York 1, N. Y.
- Hamilton Kent Mfg. Co., Kent, Ohio.
- Handy & Harman, 82 Fulton St., New York 7, N. Y.
- Hanover Developments, 401 E. 74th St., New York 21, N. Y.
- Hanovia Chemical & Mfg. Co., 233 N. J. R.R. Ave., Newark, N. J.
- Hansen Mfg. Co., Inc., Princeton, Ind.
- Hardwick, Hindle, Inc., 40 Hermon St., Newark 5, N. J.
- Harnett Electric Corp., 138 Haven Ave., Port Washington, L. I., N. Y.
- Harper Co., The, H. M., 8200 Lehigh Ave., Morton Grove, Ill.
- Harshaw Scientific Div. of The Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
- Hart & Co., Inc., Frederick, 839 Main Ave., Poughkeepsie, N. Y.
- Hart Mfg. Co., 110 Bartholomew Ave., Hartford 1, Conn.
- Hartley Co., Ltd., H. A., 152 Hammersmith Rd., London W. 6, England.
- Harvey Radio Labs., Inc., 447 Concord Ave., Cambridge, Mass.
- Harvey-Wells Electronics, Inc., North St., Southbridge, Mass.
- Hassall, Inc., John, Clay and Oakland Sts., Brooklyn, N. Y.
- Hastings Instrument Co., Box 1275, Hampton, Va.
- Hathaway Instrument Co., 1315 S. Clarkson St., Denver 10, Colo.
- Hawley Products Co., St. Charles, Ill.
- Haydon Mfg. Co., Inc., 584 E. Elm St., Torrington, Conn.
- Haydon Co., A. W., The, 232 N. Elm St., Waterbury, Conn.
- Haydu Brothers, Plainfield, N. J.
- Haynes Labs., Inc., C. W., 61 Chandler St., Springfield, Mass.
- Haynes Stellite Division, Union Carbide & Carbon Corp., Kokomo, Ind.
- Hazard Insulated Wire Works Div., The Okonite Co., Wilkes Barre, Pa.
- Heath Co., Benton Harbor, Mich.
- Heiland Research Corp., 130 E. 5th Ave., Denver 9, Colo.
- Heinemann Electric Co., 97 Plum St., Trenton 2, N. J.
- Heintz & Kaufman Div. of The Robert Dollar Co., 947 Broadway, Redwood City, Calif.
- Heldor Bushing & Terminal Co., Inc., P. O. Box 91, Orange, N. J.
- Heli-Coil Corp., 47-23 35th St., Long Island City 1, N. Y.
- Helipot Corp., 916 Meridian Ave., So. Pasadena, Calif.
- Heller Co., Gerald K., 1540 Ridgely St., Baltimore 30, Md.
- Helwig Co., 2544 N. 30th St., Milwaukee 10, Wis.
- Hercules Electric & Mfg. Co., Inc., 2500 Atlantic Ave., Brooklyn 7, N. Y.
- Hercules Powder Co., Inc., 900 Market St., Wilmington 99, Del.
- Herlec Corp., The, 422 N. Fifth St., Milwaukee 3, Wisc.
- Hermaseal Co., The, Riverside Drive, Elkhart, Ind.
- Hermetic Seal Products Co., 29-37 South 6th St., Newark 7, N. J.
- Hertner Electric Co., 12690 Elmwood Ave., Cleveland 11, Ohio.
- Herzog Miniature Lamp Works, Inc., 12-23 Jackson Ave., Long Island City 1, N. Y.
- Hetherington, Inc., Sharon Hill, Pa.
- Hewlett-Packard Co., 395 Page Mill Rd., Palo Alto, Calif.
- Hexacon Electric Co., 130 W. Clay Ave., Roselle Park, N. J.
- Heyman Mfg. Co., 300 Michigan Ave., Kenilworth, N. J.
- Hickok Electrical Instrument Co., 10514 Dupont Ave., Cleveland, Ohio.
- Hilburn Electronic Products Co., 55 Nassau Ave., Brooklyn 22, N. Y.
- Hi-Par Products Co., Fitchburgh, Mass.
- High Frequency Heating Co., 143 Glen Park Ave., Gary, Indiana.
- High Voltage Engineering Corp., 7 University Rd., Cambridge 38, Mass.
- Highland Engineering Co., 32 Holman Blvd., Hicksville, N. Y.
- Hillside Spinning & Stamping Co., Inc., 1429 Chestnut Ave., Hillside, N. J.
- Hoffman Engineering Corp., Anoka, Minn.
- Hoffman Radio Corp., 3716 S. Hill Street, Los Angeles 7, Calif.
- Hofmann Corp., C. L., 436 Blvd. of the Allies, Pittsburgh 19, Pa.
- Hogan Laboratories, Inc., 155 Perry St., New York 14, N. Y.
- Holl Audio Industries, Hollywood Station Box 1230, Hollywood 28, Calif.
- Hollingsworth & Vose Co., East Walpole, Mass.
- Holliston Mills, Inc., Norwood, Mass.
- Holtzer-Cabot, Div. of National Pneumatic Co., Inc., 125 Amory St., Boston 19, Mass.
- Home Recording Products Corp., Freeport, L. I., N. Y.
- Homelite Corp., Port Chester, N. Y.
- Hopp Press Inc., 460 W. 34th St., New York, N. Y.
- Horn Co., Inc., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
- Horton Machine Products Co., Horton & Rockaway Aves., Valley Stream, N. Y.
- Hose-McCann Telephone Co., Inc., 25th St. & 3rd Ave., Brooklyn 32, N. Y.
- Houlihan Company, T. J., 2508-14 W. Lawrence Avenue, Chicago 25, Illinois.
- House of Television, 40 W. 4th St., New York 12, N. Y.
- Hovis Screwlock Co., 8100 E. Nine Mile Rd., Van Dyke, Mich.
- Howard Co., The, 934 Argyle Rd., Drexel Hill, Pa.
- Howard Mfg. Corp., 1401 S. Main, Council Bluffs, Iowa.
- Hubbard Spring Co., M. D., Central Ave., Pontiac, Mich.
- Hubbell, Inc., Harvey, Bridgeport 2, Conn.
- Hudson Wire Co., Winsted Div., Winsted, Conn.
- Huggins Laboratories, 734 Hamilton Ave., Menlo Park, Calif.
- Hunt Corp., The, 455 Lincoln St., Carlisle, Pa.
- Hunter Photo Copyist Co., 566 Spencer St., Syracuse, N. Y.
- Hunter Spring Co., Lansdale, Pa.
- Hunton Plastics Co., 178 S. Van Brunt St., Englewood, N. J.
- Huse Liberty Mica Co., 171 Camden St., Boston, Mass.
- Hycor Co., 11423 Vanowen St., North Hollywood, Calif.
- Hydraulic Press Mfg. Co., Mt. Gilead, Ohio.
- Hy-Lite Antennae Inc., 1060 Washington Ave., Bronx 56, N. Y.
- Hytron Radio & Electronics Corp., 76 Lafayette St., Salem, Mass.
- I-T-E Circuit Breaker Co., 19th & Hamilton Sts., Philadelphia 30, Pa.
- Ideal Industries, Inc., Park & Borden Avenues, Sycamore, Ill.
- Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago 41, Ill.
- Illinois Condenser Co., 1616 N. Throop St., Chicago 22, Ill.
- Illinois Testing Labs., Inc., 420 N. La Salle Street, Chicago 10, Ill.
- Illinois Wood Products Corp., 1656 No. Besly Court, Chicago 22, Ill.
- Isco Copper Tube & Products Inc., Mariemont Ave., Mariemont, Cincinnati 27, Ohio.
- Indiana Steel Products Company, The, Valparaiso, Indiana.
- Indiana Steel & Wire Co., 700 S. Council St., Muncie, Ind.
- Induction Heating Corp., 181 Wythe Ave., Brooklyn 11, N. Y.
- Inductive Equipment Co., Gettysburg, Pa.
- Inductograph Laboratory, Box 76, Brookfield, Conn.
- Inductograph Products, 236 W. 55th St., New York, N. Y.
- Industrial Condenser Corp., 3243 N. California Ave., Chicago 18, Ill.
- Industrial Control Co., 1462 Undercliff Ave., New York 52, N. Y.
- Industrial Devices Inc., 22 State Rd., Edgewater, N. J.
- Industrial Electrical Works, 1509 Chicago St., Omaha 2, Nebraska.
- Industrial Electronics Co., Inc., Hanover, Mass.
- Industrial Electronics, Inc., 2457 Woodward Ave., Detroit 1, Mich.
- Industrial Instruments Inc., 17 Pollack Ave., Jersey City 5, N. J.
- Industrial Precision Products Co., 315-325 N. Hoyne Ave Chicago 12, Ill.
- Industrial Synthetics Corp., 225 North Ave., Garwood, N. J.
- Industrial Tape Corp., New Brunswick, N. J.
- Industrial Timer Corp., 115 Edison Pl., Newark 5, N. J.
- Inst-X Co., Inc., The, Water St. & Broadway Ossining, N. Y.
- Instrument Development Laboratories, Inc., Needham Heights, Mass.
- Instrument Electronics, 42-17A Douglaston Parkway, Douglaston, L. I., N. Y.
- Instrument Laboratories, 315 W. Walton Place, Chicago 10, Ill.
- Instrument Parts Corp., P. O. Box 150, Ossining, N. Y.
- Instrument Resistors Co., 1036 Commerce Ave., Union, N. J.
- Instrument Specialties Co., Inc., 254 Bergen Blvd., Little Falls, N. J.
- Insulacine Co., 1 Broadway, New York, N. Y.
- Insulating Fabricators, Inc., 150 Union Ave., East Rutherford, N. J.
- Insulating Fabricators of New England, Inc., 69 Grove St., Watertown 72, Mass.
- Insulating Tube Co., 26 Cottage St., P. O. Box 1, Poughkeepsie, N. Y.
- Insulation Mfg. Co., 11 New York Ave., Brooklyn, New York.
- Insulation Manufacturers Corp., 565 W. Washington Blvd., Chicago 6, Ill.
- Insuline Corp. of America, 36-02 35th Avenue, Long Island City, N. Y.
- International Derrick & Equipment Co., 875 Michigan Ave., Columbus 8, Ohio.
- International Instruments, Inc., 331 East St., New Haven 11, Conn.
- International Machine Works, 6904 Madison St., Guttenberg, N. J.
- International Nickel Co., Inc., The, 67 Wall St., New York 5, N. Y.
- International Powder Metallurgy Co., 439 W. Main St., Ridgway, Pa.
- International Rectifier Corp., 6809 S. Victoria Ave., Los Angeles 43, Calif.
- International Resistance Co., 401 N. Broad St., Philadelphia 8, Pa.
- International Television Corp., 238 William St., New York 7, N. Y.
- Intervox Corp., 2701 California Ave., Seattle 6, Wash.
- Intra-Video Corp. of America 238 William St., New York 7, N. Y.
- Ionic Equipment Co., 1705 N. Kenmore Ave., Los Angeles, 27, Calif.
- Irvington Varnish & Insulator Co., 10 Argyle Terrace, Irvington 11, N. J.
- Isolantite Mfg. Corp., Stirling, N. J.
- J-B-L Instrument Co., Sycamore & Mill Rds., Clifton Heights, Pa.
- J B T Instruments Inc., 441 Chapel St., New Haven 8, Conn.
- J F D Mfg. Co., 6101-23 Sixteenth Ave., Brooklyn, N. Y.
- Jackson Electrical Instrument Co., 16 S. Patterson Blvd., Dayton 1, Ohio.
- Jackson Industries, Inc., 58 E. Cullerton St., Chicago 16, Ill.
- Jamaica Television Mfg. Co., 95-26 Sutphin Blvd., Jamaica 4, N. Y.
- James Vibrapowr Co., 3224 W. Armitage Ave., Chicago 47, Ill.
- Janette Mfg. Co., 556 W. Monroe St., Chicago 6, Illinois.
- Jarrel-Ash Co., 165 Newbury St., Boston 16, Mass.
- Jarvis Electronics Corp., 6058 W. Fullerton Ave., Chicago 39, Ill.
- Jeffers Electronics, Inc., DuBois, Pa.
- Jefferson, Inc., Ray, 40 E. Merrick Rd., Freeport, L. I., N. Y.
- Jefferson Electric Co., Bellwood, Ill.
- Jelliff Mfg., Corp., C. O., 200 Pequot Ave., Southport, Conn.
- Jen Products Co., 419 W. 42nd St., New York 18, N. Y.
- Jennings Radio Mfg. Co., 1098 E. William St., San Jose 12, Calif.
- Jensen Industries Inc., 329 S. Wood St., Chicago, Ill.
- Jensen Mfg. Co., 6601 S. Laramie Ave., Chicago 38, Ill.
- Jerrold Electronics Corp., 121 N. Broad St., Philadelphia, Pa.
- Johns-Manville, 22 E. 40th St., New York 16, N. Y.
- Johnson Co., E. F., Waseca, Minn.
- Johnson Mfg. Co., Inc., Mt. Vernon, Iowa.
- Johnson & Hoffman Inc., 65 Ongley St., Rockville Center, L. I., N. Y.
- Johnston Foil Mfg. Co., 6100 S. Broadway, St. Louis 11, Mo.
- Jones Electronics Co., M. C., Bristol, Conn.
- Jones Div., Howard B., Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill.
- Jones Optical Works, A. D., Cambridge, Mass.
- Jones Spring Co., W. B., 124 E. 7th St., Cincinnati, Ohio.
- Judd Co., H. L., 87 Chambers St., New York 7, N. Y.
- K. F. Development Co., 820 Woodside Way, San Mateo, Calif.
- K-V Transformer Corp., 4414 Park Ave., New York 57, N. Y.
- Kaar Engineering Co., 2995 Middlefield Road, Palo Alto, Calif.
- Kahle Engineering Co., 1307 7th St., North Bergen, N. J.
- Kaiser Aluminum & Chemical Sales, Inc., 1924 Broadway, Oakland 12, Calif.
- Kalbfell Labs., Inc., 1076 Morena Blvd., San Diego 10, Calif.
- Karp Metal Products Co., Inc., 215 63rd St., Brooklyn 20, N. Y.

Kartron, Inc., Box 472, Huntington Beach, Calif.
 Kato Engineering Co., 1415 First Ave., Mankato, Minn.
 Kay Electric Co., 14 Maple Ave., Pine Brook, N. J.
 Kaye-Halbert Corp., 3555 Hayden Ave., Culver City, Calif.
 Keasbey & Mattison, Ambler, Pa.
 Keithley Instruments, 1507 Warrenville Center Rd., Cleveland 21, Ohio.
 Keller Products, Inc., 41 Union St., Manchester, N. H.
 Kelley-Koett Mfg. Co., Instrument Div., 12 E. 6th St., Covington, Ky.
 Kellogg Switchboard & Supply Co., 6650 S. Cicero Ave., Chicago 38, Ill.
 Kelnor Mfg. Corp., 215 Kearney St., San Francisco 8, Calif.
 Kemet Division, Union-Carbide & Carbon Corp., Madison Ave. and 117th St., Cleveland 1, Ohio.
 Kemite Labs., 1819 W. Grand Ave., Chicago 22, Ill.
 Kemode Mfg. Co., 161 W. 18th St., New York 11, N. Y.
 Kemtron Electron Products, Inc., 23 Brown St., Salem, Mass.
 Kennedy & Co., D. S., Cohasset, Mass.
 Kent Co., F. C., 64-72 Howard St., Irvington, N. J.
 Kenyon Transformer Co., Inc., 840 Barry St., New York 59, N. Y.
 Kepco Labs. Inc., 149-14 41st Ave., Flushing, N. Y.
 Kester Solder Co., 4212 Wrightwood Ave., Chicago 33, Ill.
 Keuffel & Esser Co., Hoboken, N. J.
 Keystone Carbon Co., Inc., Saint Marys, Pa.
 Keystone Chromium Corp., Buffalo, N. Y.
 Keystone Electronics Co., 50-52 Franklin St., New York 13, N. Y.
 Kilburn Glass Co., Inc., J. R., 22 S. Worcester St., Chertley, Mass.
 King Laboratories Inc., 127 Solar St., Syracuse 4, N. Y.
 Kings Electronics Co., Inc., 811 Lexington Ave., Brooklyn 21, N. Y.
 Kingston Radio Co., Inc., Kokomo, Ind.
 Kinney Mfg. Co., 3529 Washington St., Boston, Mass.
 Kinsey Radio Mfg. Co., 5807 Oak St., Omaha 7, Neb.
 Kip Electronics Corp., 155 Waverly Place, New York 14, N. Y.
 Kirchnerberger & Co., Inc., M., 1425 Thirty Seventh St., Brooklyn 18, N. Y.
 Kirk & Blum Mfg. Co., 2893 Spring Grove Ave., Cincinnati 25, Ohio.
 Kirkland Co., H. R., The, 8 King St., Morristown, N. J.
 Kling Metal Spinning Co., 174 Centre Street, New York 13, N. Y.
 Klipsch & Associates, Hope, Ark.
 Knights Co., James, 131 S. Wells St., Sandwich, Ill.
 Kobzy Tool Co., 1535 N. Dayton Ave., Chicago 22, Ill.
 Koh-I-Noor Pencil Co., Bloomsbury, N. J.
 Koiled Kords, Inc., New Haven, Conn.
 Kollman Instrument Div. of Square D Co., 80-08 45th Ave., Elmhurst, N. Y.
 Kolton Electric Mfg. Co., 123 New Jersey Railroad Ave., Newark 5, N. J.
 Koppers Co., Inc., Chemical Div., Koppers Bldg., Pittsburgh 19, Pa.
 Kotron Rectifier Corp., A Standard Arcturus Affiliate, 54 Clark St., Newark 4, N. J.
 Krieg Co., Charles W., 52 Dickerson St., Newark, N. J.
 Krohn-Hite Instrument Co., 580 Massachusetts Ave., Cambridge 39, Mass.
 Kuhn & Jacob Molding & Tool Co., 1200 Southard St., Trenton, N. J.
 Kulka Electric Mfg. Co., Inc., 30 South St., Mt. Vernon, N. Y.
 Kupferman Mfg. Co., 350 State St., Binghamton, N. Y.
 Kurman Electric Co., Inc., 35-18 37th St., Long Island City 1, N. Y.
 Kurz-Kasch, Inc., 1415 S. Broadway, Dayton 1, Ohio.
 Kuthe Laboratories, Inc., 150 Summit St., Newark 4, N. J.
 Kwikheat Mfg. Co., 3732 San Fernando Rd., Glendale 4, Calif.

L. A. B. Corporation, 31 Union Place, Summit, N. J.
 L & R Mfg. Co., 577 Elm St., Arlington, N. J.
 Laconia Corp., 37 S. 6th St., Newark 7, N. J.
 Lake Mfg. Co., 2323 Chestnut St., Oakland 7, Calif.
 La Magna Mfg. Co., Inc., East Rutherford, N. J.
 Lambda Electronics Corp., 103-02 Northern Blvd., Corona, N. Y.
 Lamicoid Fabricators, Inc., 4545 Cortland St., Chicago 39, Ill.
 Laminated Plastics, Inc., 14838 Euclid Ave., Cleveland 12, Ohio.
 La Motte Chemical Products Co., Towson 4, Baltimore, Md.
 Lampkin Laboratories, Inc., Bradenton, Fla.
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.
 Landis & Gyr, Inc., 104 Fifth Ave., New York 11, N. Y.
 Lancevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y.
 Lansdale Tube Co., Church Rd., Lansdale, Pa.
 Lansing Sound Inc., James B., 2439 Fletcher Drive, Los Angeles 26, Calif.
 Lansing Stamping Co., 1159 S. Pennsylvania Ave., Lansing, Mich.
 Lansky Die Cutting Co., 192½ Greene St., New York 12, N. Y.
 LaPointe-Plascomold Corp., Unionville, Conn.
 Lapp Insulator Co., Inc., Radio Specialties Div., 31 Gilbert St., LeRoy, N. Y.
 La Rose & Associates, W. T., 646 Second Ave., Troy, N. Y.
 Laughlin Co., Thomas, 199 Fore, Portland, Me.
 Lauehk Radio Mfg. Co., 3931 Monroe Ave., Wayne, Mich.
 Lavoie Laboratories, Morganville, N. J.

Leach Relay Co., 5915 Avalon Blvd., Los Angeles 3, Calif.
 Lear, Inc., 110 Ionia Ave., N.W., Grand Rapids 2, Mich.
 Lectoroid Co., 145-03 Jamaica Ave., Jamaica, L. I., N. Y.
 Lectro-Max, Inc., 15 S. First St., Geneva, Ill.
 Leotron Research Labs., 1021 Callowhill St., Philadelphia 23, Pa.
 Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa.
 Lehig Structural Steel Co., 17 Battery Pl., New York 4, N. Y.
 Leiman Brothers, 114 Christie St., Newark 5, N. J.
 Lekas Mfg. Co., Ann Arbor, Mich.
 Lektra Laboratories, 30 E. 10th St., New York 3, N. Y.
 Leland, Inc., G. H., 123 Webster St., Dayton 2, Ohio.
 Leland Electric Co., 1501 Webster St., Dayton 1, Ohio.
 Lenk Mfg. Co., The, 30 Cummington St., Boston 15, Mass.
 Lenkurt Electric Co., Inc., San Carlos, Calif.
 Lenz Electric Mfg. Co., 1751 North Western Ave., Chicago 47, Ill.
 Leonard Electric Products Co., Inc., 1562 61st St., Brooklyn, N. Y.
 Lepel High Frequency Labs., Inc., 39 West 60th St., New York 23, N. Y.
 Leru Laboratories, Inc., 360 Bleecker St., New York 14, N. Y.
 Leopold & Stevens Instruments, Inc., 4445 N.E. Giisan St., Portland 13, Ore.
 Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn.
 Lewis & Kaufman, Inc., P. O. Box 337, 90 El Rancho Ave., Los Gatos, Calif.
 Lewis Spring & Mfg. Corp., 2656 W. North Ave., Chicago 47, Ill.
 Liebel-Flarsheim Co., 303 W. Third St., Cincinnati 2, Ohio.
 Light Electric Corp., 214 Lackawanna Ave., Newark 4, N. J.
 Lincophone Co., Inc., 226 Lansing St., Utica, N. Y.
 Linde Air Products Co., Unit of Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
 Lingo & Son, Inc., John E., 28th St. and Buren, Camden, N. J.
 Linick Chemical Co., 29 E. Madison St., Chicago 2, Ill.
 Link Radio Corp., 125 W. 17th St., New York, N. Y.
 Linton & Bros., Inc., Horace, 3081 Ruth St., Philadelphia 34, Pa.
 Liston Folb Instrument Co., 392 Slater St., Stamford, Conn.
 Littelfuse Inc., 4757 Ravenswood Ave., Chicago 40, Ill.
 Little Falls Alloys, Inc., 190 Caldwell Ave., Paterson 1, N. J.
 Litton Industries, San Carlos, Calif.
 Livingston Electronic Corp., Livingston, N. J.
 Locke Incorporated, P. O. Box 57, Baltimore 3, Md.
 Loge Sound Engineers, J. M., 2171 W. Washington Blvd., Los Angeles 7, Calif.
 Lojack Precision Corp., 93 Worth St., New York 13, N. Y.
 Lorain Products Corp., 1122 F. St., Lorain, Ohio.
 Lor Electronics Corp., 794 E. 140th St., New York 54, N. Y.
 Lord Mfg. Co., 1635 W. 12th St., Erie, Pa.
 Louis Bros., 3543 E. 16th St., Los Angeles 23, Calif.
 Louthan Mfg. Co., East Liverpool, Ohio.
 Lukens Steel Co. & Divisions, By-Products Steel Co. & Lukenweld, 447 Lukens Bldg., Coatesville, Pa.
 Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.
 Lumenite Electric Co., 407 S. Dearborn St., Chicago 5, Ill.
 Lundey Associates, Mfg. Div., 694 Main St., Waltham 54, Mass.
 Luzerne Rubber Co., Muirhead Ave., Trenton, N. J.
 Lyman Electronic Corp., 12 Cass St., Springfield, Mass.
 Lynch Co., F. W., 151 2nd St., San Francisco, Calif.
 Lynmar Engineers, Inc., 1721 Delancey St., Philadelphia 3, Pa.

MacKay Laboratories, 1946 N. Kedzie, Chicago, Ill.
 McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif.
 McElroy Mfg. Corp., Littleton, Mass.
 McIntosh Engineering Laboratory, Inc., 910 King St., Silver Spring, Md.
 McLaughlin, J. L. A., Box 529, LaJolla, Calif.
 McMurdo Silver Co., Inc., 1240 Main St., Hartford 3, Conn.
 McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
 MB Mfg. Co., 1060 State St., New Haven 11, Conn.
 M. P. Concert Installations, Fairfield 10, Conn.
 Maas & Waldstein Co., 438 Riverside Ave., Newark 4, N. J.
 Macallen Co., The, 16 Macallen St., Boston 27, Mass.
 Macdonald & Co., Inc., W. S., 33 University Rd., Cambridge 38, Mass.
 Machine-O-Matic, Inc., P. O. Box 238, Ashley, Ohio.
 Machlett Laboratories, Springdale, Conn.
 Mack Electrical Devices Inc., 43 Glenside Ave., Wyncote, Pa.
 Mack Molding Co., Wayne, N. J.
 MacLeod & Hanopol, 10 Joiner St., Charlestown 29, Mass.
 Magna Electronics Co., 3707-11 W. Jefferson, Los Angeles 16, Calif.
 Magnavox Co., The, Components Div., Fort Wayne 4, Ind.
 Magnecord, Inc., 360 N. Michigan Ave., Chicago 1, Ill.
 Magnetic Analysis Corp., 42-44 Twelfth St., Long Island City 1, N. Y.
 Magnetic Core Corp., 142-144 S. Highland Ave., Ossining, N. Y.
 Magnetic Devices Corp., 103 S. Van Brunt St., Englewood, N. J.

Magnetic Devices, Inc., 712 East St., Frederick, Md.
 Magnetic Instrument Co., 82 W. Main St., West Orange, N. J.
 Magnetic Metals Co., Hayes Ave. and 21st St., Camden, N. J.
 Magnetic Recorders Co., 7120 Melrose St., Los Angeles, Calif.
 Magnetic Windings Div., Essex Wire Corp., Freemansburg Ave. and Hobson Blvd., Easton, Pa.
 Magnetics, Inc., P. O. Box 761, Butler, Pa.
 Maico Co., Inc., 21 North 3rd St., Minneapolis, Minn.
 Maida Development Co., 12 E. Howard St., Phoebus, Va.
 Makepeace Co., D. E., Attleboro, Mass.
 Maico Tool & Mfg. Co., 4025 W. Lake St., Chicago 24, Ill.
 Mallinckrodt Chemical Works, Second and Mallinckrodt Sts., St. Louis 7, Mo.
 Mallory & Co., Inc., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
 Manning, Maxwell & Moore, Inc., Stratford, Conn.
 Manufacturers Battery Co., Sub. of Ray-O-Vac Co., Madison, Wis.
 Manufacturers Engr. & Equip. Corp., Willow Grove, Pa.
 Manufacturers Thread Grinding Inc., P. O. Box 66, Eatontown, N. J.
 Marathon Battery Co., Wausau, Wis.
 Marbon Corp., Gary, Ind.
 Marco Industries, 210 South Clementine, Anaheim, Calif.
 Marco Industries, Inc., 788 Terrace Blvd., Depew, N. Y.
 Marconi Instruments, Ltd., 23 Beaver St., New York 4, N. Y.
 Marion Electrical Instrument Co., Manchester, N. H.
 Markem Machine Co., Keene, N. H.
 Market Forge Co., Everett 49, Mass.
 Marma Electronic Co., 703 Willow St., Chicago 14, Ill.
 Marsh Stencil Machine Co., 46 Marsh Bldg., Belleville, Ill.
 Martindale Electric Co., Box 617, Edgewater Branch, Cleveland 7, Ohio.
 Maryland Electronic Mfg. Corp., 5009 Calvert Rd., College Park, Md.
 Masonite Corp., 111 W. Washington St., Chicago 2, Ill.
 Massa Laboratories, 3868 Carnegie St., Cleveland, Ohio.
 Mattison Television & Radio Corp., 893 Broadway, New York 3, N. Y.
 Maxson Corp., W. L., 460 W. 34th St., New York, N. Y.
 Maurer Inc., J. A., 37-01 31st St., Long Island City, N. Y.
 Mayfair Molded Products Corp., 4440 N. Elston Ave., Chicago 30, Ill.
 Measurements Corp., Boonton, N. J.
 Meck Industries, John, Liberty at Pennsylvania, Plymouth, Ind.
 Meissner Mfg. Div., Maguire Industries, Inc., Mt. Carmel, Ill.
 Melco Products, Inc., 22 E. Hennepen Ave., Minneapolis 1, Minn.
 Mellaphone Corp., Rochester 2, N. Y.
 Melpar, Inc., 452 Swann Ave., Alexandria, Va.
 Meppo, Inc., 35-37 Abbott Ave., Morristown, N. J.
 Merck & Co., Inc., Rahway, N. J.
 Mercoid Corp., The, 4201 Belmont Ave., Chicago 41, Ill.
 Merit Coil & Transformer Corp., 4427 N. Clark St., Chicago 40, Ill.
 Metal Hydrides Inc., Beverly, Mass.
 Metal Textile Corp., 647 E. First Ave., Roselle, N. J.
 Meters, Inc., 915 Westfield Blvd., Indianapolis 20, Ind.
 Methode Mfg. Corp., 1733 N. Milwaukee Ave., Chicago 47, Ill.
 Metron Instrument Co., 432 Lincoln St., Denver 9, Colorado.
 Metropolitan Electronics & Instruments Co., 106 Fifth Ave., New York 11, N. Y.
 Mica Fabricating Co., 53 Central Ave., Rochelle Park, N. J.
 Mica Insulator Co., Schenectady 1, N. Y.
 Micacraft Products Inc., 701 McCarter Highway, Newark 5, N. J.
 Micamold Radio Corp., 1087 Flushing Ave., Brooklyn 6, N. Y.
 Micarta Fabricators, Inc., 5324 Ravenswood Avenue, Chicago 40, Illinois.
 Mico Instrument Co., 80 Trowbridge St., Cambridge 38, Mass.
 Micro-Circuits Co., New Buffalo, Mich.
 Micro Metallic Corp., 193 Bradford St., Brooklyn, N. Y.
 Micro Switch Division of First Industrial Corp., 7 Spring St., Freeport, Ill.
 Microwave Equipment Co., Inc., North Caldwell, N. J.
 Midco Mfg. & Distributing Co., S. 13th & Kentucky Avenue, Sheboygan, Wisconsin.
 Miles Reproducer Co., Inc., 812 Broadway, New York 3, N. Y.
 Milford Rivet & Machine Co., Milford, Conn.
 Millen Mfg. Co., James, 150 Exchange St., Malden, Mass.
 Miller, August E., 9226 Hudson Blvd., North Bergen, N. J.
 Miller Co., B. F., P. O. Box 568 Trenton 4, N. J.
 Miller Co., J. W., 5917 S. Main St., Los Angeles, Calif.
 Miller Corp., William, 362 W. Colorado St., Pasadena, Calif.
 Miller Mfg. Co., M. A., 1169 E. 43rd St., Chicago 15, Ill.
 Millivac Instruments, Box 3027, New Haven, Conn.
 Milwaukee Metal Spinning Co., 4128 W. State St., Milwaukee 8, Wis.
 Milwaukee Resistor Co., 700 W. Virginia Street, Milwaukee 4, Wisconsin.
 Minerallic Electric Co., 25 N. Peoria St., Chicago, Illinois.
 Mines Equipment Division, Joy Mfg. Co., 4235 Clayton Ave., St. Louis, Mo.
 Miniature Precision Bearings, Inc., Keene, New Hampshire.

Minneapolis-Honeywell Regulator Co., 2753 Fourth Avenue S., Minneapolis, Minn.
 Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
 Minnesota Electronics Corp., 97 E. Fifth St., St. Paul 1, Minn.
 Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul, Minn.
 Minute Man Products, Inc., 309 East 22nd Street, New York 10, N. Y.
 Mirror Record Corp., 1133 Broadway, New York 10, N. Y.
 Miskella Infra-Red Co., The, E. 73rd & Grand Ave., Cleveland 4, Ohio.
 Mission Electric Mfg. Co., 132 W. Colorado Blvd., Pasadena, Calif.
 Mitchell Industries, Inc., Camp Wolters, Mineral Wells, Texas.
 Mitchell Rand Insulation Co., Inc., 51 Murray Street, New York 7, N. Y.
 Model Engineering & Mfg., Inc., Huntington, Indiana.
 Model Rectifier Corp., 1510 Nostrand Ave., Brooklyn, N. Y.
 Modern Hearing Aids Laboratory, The, 6805 Fraser St., Vancouver, B. C., Canada.
 Molded Insulation Co., Aircraft Control Div., 335 E. Price St., Philadelphia, Pa.
 Molding Corp. of America, Pawtucket, R. I.
 Monitor Products Co., 815 Fremont Ave., So. Pasadena, Calif.
 Monroe Coil Co., 2839 N. Narragansett Ave., Chicago 34, Ill.
 Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
 Mooradian High Frequency Labs, 13 E. Fort Lee Rd., Bogota, N. J.
 Moore Co., Howard J., 108 Park Row, New York 7, N. Y.
 Moore Inc., George W., 100 Beaver St., Waltham, Mass.
 Morrill & Morrill, 30 Church St., New York 7, N. Y.
 Morris Co., J.-I., 394 Elm St., Southbridge, Mass.
 Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass.
 Mosher Electronic Controls, 130 W. 42nd St., New York, N. Y.
 Mosinee Paper Mills Co., Mosinee, Wisconsin.
 Motoresearch Co., 1600 Junction Ave., Racine, Wis.
 Motorola Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
 Moulia Specialties Co., 1005-1007 W. Washington St., Bloomington, Ill.
 Moyer, C. P., 908 Chicago Ave., Chicago, Ill.
 Mu Switch Division, Acro Switch Co., 38 Pequit St., Canton, Mass.
 Mueller Electric Co., 1583 E. 31st St., Cleveland 14, Ohio.
 Muirhead & Co., Ltd., Beckenham-Kent-England.
 Multicore Sales Corp., 164 Duane St., New York 13, N. Y.
 Multicore Solders Ltd., Mellier House, Albemarle St., London, W. 1, England.
 Multi Metal Wire Cloth Co., Inc., 1350 Garrison Ave., New York 59, N. Y.
 Multi-Products Tool Co., 123 Sussex Ave., Newark 4, N. J.
 Multiple Television Mfg. Co., 987 Hegeman Ave., Brooklyn 8, N. Y.
 Murdock Mfg. Co., Wm. J., Chelsea, Mass.
 Murex, Ltd., Rainham-Essex-England.
 Murray Industries, Inc., 502 W. Colorado Ave., Colorado Springs, Colorado.
 Muter Co., 1255 S. Michigan Ave., Chicago, Ill.
 Mycalex Corp. of America, 60 Clifton Blvd., Clifton, N. J.
 Mycalex Tube Socket Corp., 60 Clifton Blvd., Clifton, N. J.
 Myers & Sons, E. A., Radioear Bldg., Beverly Rd., Pittsburgh 16, Pa.
 Mykroy, Inc., Arlington Heights Airport, Arlington Heights, Ill.
 National Acme Co., 176 E. 131st St., Cleveland 8, Ohio.
 National Carbon Division, United Carbide & Carbon Corp., 30 E. 42nd Street, New York 17, N. Y.
 National Ceramic Co., 400 Southard St., Trenton 2, N. J.
 National Company, Inc., 61 Sherman Street, Malden 48, Mass.
 National Electric Coil Co., Columbus 16, Ohio.
 National Electrical Machine Shops, Inc., 919 Jesup-Blair Drive, Silver Spring, Md.
 National Electric Controller Co., 5307 Ravenswood Avenue, Chicago, Illinois.
 National Electronic Mfg. Corp., 35-05 36th St., Long Island City 5, N. Y.
 National Electronics, Inc., Geneva, Ill.
 National Electronics Labs., Inc., 1713 Kalorama Rd., N. W., Washington 9, D. C.
 National Gasket & Washer Mfg. Co., Inc., 124 E. 25th St., New York 10, N. Y.
 National Instrument Co., 246 Walnut Street, Newtonville 60, Mass.
 National Intercommunicating Systems, 1531 Devon Avenue, Chicago 26, Illinois.
 National Lead Co., 111 Broadway, New York 6, N. Y.
 National Lock Washer Co., 40 Hermon St., Newark 5, N. J.
 National Moldite Co., 1410 Chestnut Ave., Hillside 5, N. J.
 National Polytronics Inc., 2430 Atlantic Ave., Brooklyn, N. Y.
 National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.
 National Screw & Mfg. Co., The, Cleveland 4, Ohio.
 National Spectrograph Laboratories, Inc., 6300 Euclid Ave., Cleveland 3, Ohio.
 National Technical Laboratories, 820 Mission St., South Pasadena, Calif.
 National Union Radio Corp., 350 Scotland Rd., Orange, N. J.
 National Varished Products Corp., The, 211 Randolph Ave., Woodbridge, N. J.
 National Video Corp., 3019 W. 47th St., Chicago, Ill.
 National Vulcanized Fibre Co., Wilmington, Del.
 Nebel Lab., R. E., 1104 Lincoln Place, Brooklyn 13, N. Y.
 Nelson Vacuum Pump Co., George F., 2133 Fourth Street, Berkeley 10, Calif.
 Neptune-Power Plus Products Co., Detroit, Mich.
 Network Mfg. Corp., Bayonne, N. J.
 New England Electrical Works Inc., Lisbon, N. H.
 New Hampshire Ball Bearings, 5 Main St., Peterborough, N. H.
 New Hermes, Inc., 13-19 University Place, New York 3, N. Y.
 New Jersey Wood Finishing Co., Amboy Ave., Woodbridge, N. J.
 New Jersey Zinc Co., 160 Front St., New York 7, N. Y.
 New Wrinkle, Inc., 1819 Bankers Bldg., 105 W. Adams Ave., Chicago 3, Ill.
 New York Solder Co., 684 E. 133rd St., New York 54, N. Y.
 New York Transformer Co., Inc., Third Ave., Alpha, N. J.
 Newark Spinning & Stamping Co., 471 Bloy St., Hillside 5, N. J.
 Newcomb Audio Products Co., 6824 Lexington Ave., Hollywood 38, Calif.
 Ney Co., J. M., 179 Elm St., Hartford, Conn.
 Niagara Electron Laboratories, Andover, New York.
 Nichols Products Co., Moorestown, N. J.
 Nickel Cadmium Battery Corp., Easthampton, Mass.
 Nielsen Television Corp., Newton Rd., Norwalk, Conn.
 Nilsson Electrical Laboratory, Inc., 103 Lafayette St., New York 13, N. Y.
 Noblitt Sparks Industries, Columbus, Indiana.
 Nonotuck Mfg. Co., Holyoke, Mass.
 Norram Laboratories, Ernst, Williams Bay, Wis.
 North American Electric Lamp Co., 1014 Tyler St., St. Louis 6, Mo.
 North American Philips Co., Inc., 100 East 42nd St., New York 17, N. Y.
 North Electric Mfg. Co., 501 S. Market St., Galion, Ohio.
 Northeastern Engineering, Inc., Manchester, N. H.
 Northern Communications Fib. Corp., 210 E. 40th St., New York 16, N. Y.
 Northern Industrial Chemical Co., 7-11 Elkins St., South Boston 27, Mass.
 Northern Radio Co., 314 Bell St., Seattle 1, Wash.
 Northern Radio Co., Inc., 143-145 W. 22nd St., New York 11, N. Y.
 Norton Co., 1 New Bond Street, Worcester 6, Mass.
 Norton Electrical Instrument Co., 59 Hilliard St., Manchester, Conn.
 Nothelfer Winding Labs., 9 Albemarle Ave., Trenton 3, N. J.
 Nuclear Development Lab., P. O. Box 7034 Kansas City, Mo.
 Nuclear Instrument & Chemical Corp., 223 W. Erie St., Chicago 10, Ill.
 Nucleonic Corp. of America, The, 497 Union St., Brooklyn 31, N. Y.
 Nukem Products Corp., 111 Colgate Ave., Buffalo 20, N. Y.
 Numberall Stamp & Tool Co., Huguenot Park, Staten Island 12, N. Y.
 Nurnberg Thermometer Co., Inc., 4 Corey St., Boston 32, Mass.
 Oak Mfg. Co., 1260 N. Clybourn Ave., Chicago 10, Ill.
 Oak Ridge Products Mfg. Div. of Video Television, Inc., 239 E. 127th St., New York 35, N. Y.
 O'Connor & Co., John T., West Orange, N. J.
 Offner Electronics Inc., 5320 N. Kedzie Ave., Chicago 25, Ill.
 Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.
 Ohio Crankshaft Co., Tocco Div., 3800 Harvard Ave., Cleveland 1, Ohio.
 Ohmite Mfg. Co., 4835 W. Flournoy St., Chicago 44, Ill.
 Okonite Co., The, Canal Street, Passaic, N. J.
 Olek & Son, Inc., A., 4757-59 Melrose Street, Philadelphia 37, Pa.
 Olesen Co., Otto K., 1534 Cahuenga, Hollywood 28, Calif.
 Olin Industries Inc., Electrical Division, New Haven 4, Conn.
 Olympic Metal Products Co., Inc., Phillipsburg, N. J.
 Olympic Radio & Television Inc., 34-01 38th Ave., Long Island City, N. Y.
 Omaha Scientific Supply Co., 3601 N. 24th St., Omaha 10, Neb.
 Onan & Sons Inc., D. W., 3264 Royalston Ave., Minneapolis 5, Minn.
 O'Neil-Irwin Mfg. Co., 316 8th Ave., Lake City, Minn.
 Opad-Green Co., 71 Warren St., New York 7, N. Y.
 Operadio Mfg. Co., 135th & Indiana Sts., St. Charles, Ill.
 Oppenheimer Inc., Alan D., 582-586 Exchange St., Buffalo, N. Y.
 Optical Film Engineering Co., 2125 Cherry St., Philadelphia 3, Pa.
 Oregon Electronic Mfg. Co., 206 S. W. Washington St., Portland 4, Ore.
 Orradio Industries, Opelika, Ala.
 Orthon Corp., The, Electronic Div., 196 Albion Ave., Paterson 2, N. J.
 Osborn Products, 475 Main St., Glen Ellyn, Ill.
 Osborne Transformer Corp., 948 E. Lafayette Avenue, Detroit 7, Mich.
 Owen Laboratories, 9130 Orion St., San Fernando, Calif.
 Owens-Corning Fiberglass Corp., Textile Products Div., 16 E. 56th St., New York 22, N. Y.
 Owens-Illinois Glass Co., Toledo, Ohio.
 Oxford Electric Corp., 3911 S. Michigan Avenue, Chicago 15, Ill.
 Ozalid Div. of Gen. Aniline & Film Corp., 770 Anco Rd., Johnson City, N. Y.
 Pacific Electric Corp., P. O. Box 1260, Beverly Hills, Calif.
 Paisley Products Inc., 1770 Canalport Ave., Chicago 16, Ill.
 Palmat Co., Inc., 77 Cordier St., Irvington 11, N. J.
 Pan-American Electronics, Inc., 5816 S. Sante Fe Ave., Los Angeles 11, Calif.
 Panelyte Div., St. Regis Paper Co., 230 Park Ave., New York, N. Y.
 Pancro Mirrors Inc., 2958 Los Feliz Blvd., Los Angeles, Calif.
 Panoramic Radio Products, Inc., 10 South Second Ave., Mt. Vernon, N. Y.
 Paper Machinery & Research, Inc., 1014 Oak St., Roselle, N. J.
 Par-Metal Products Corp., 32-62 49th Street, Long Island City 3, N. Y.
 Paragon Electric Co., Two Rivers, Wisconsin.
 Paragon-Revolute Corp., 71 South Ave., Rochester 4, N. Y.
 Paramount Paper Tube Co., 614 Lafayette St., Fort Wayne, Ind.
 Paravox, 2056 E. 4th St., Cleveland 15, Ohio.
 Parisian Novelty Co., 3510 South Western Ave., Chicago 9, Ill.
 Park Metalware Co., 28 Bank St., Orchard Park, N. Y.
 Parker-Kalon Corp., 200 Varick St., New York 14, N. Y.
 Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit, Mich.
 Parkwood Corp., Wakefield, Mass.
 Pass & Seymour, Inc., Solvay Station, Syracuse, N. Y.
 Patent Button Co. of Tennessee, 2005 Century St., Knoxville, Tenn.
 Patton-MacGuyver Co., 17 Virginia Avenue, Providence 5, R. I.
 Paul & Beekman, Inc., 1801 Cortland St., Philadelphia 40, Pa.
 Pease Co., C. F., 2601 W. Irving Park Rd., Chicago, Ill.
 Peck & Harvey, 5736-38 N. Western Ave., Chicago 45, Ill.
 Peck Spring Co., 9 King St., Plainville, Conn.
 Peerless Electrical Products Co., 6920 McKinley Ave., Los Angeles 3, Calif.
 Peerless Photo Products, Shoreham, L. I., N. Y.
 Peirce Wire Recorder Corp., 1328 Sherman Avenue, Evanston, Illinois.
 Penn Engineering & Mfg. Corp., Box 311, Doylestown, Pa.
 Penn Fibre & Specialty Co., 2020 E. Westmoreland St., Philadelphia 34, Pa.
 Pentron Corp., The, 611 W. Division St., Chicago 10, Ill.
 Penn-Union Electric Corp., 315 State St., Erie, Pa.
 Perkin-Elmer Corp., The, Glenbrook, Conn.
 Permo Inc., 6415 Ravenswood Ave., Chicago 26, Ill.
 Permoflux Corp., 4900 W. Grand Ave., Chicago 39, Ill.
 Pfanstiel Chemical Co., Metallurgical Div., 104 Lake View Ave., Waukegan, Ill.
 Phalo Plastics Corp., 25 Foster St., Worcester 8, Mass.
 Phelps Dodge Copper Products Corp., 40 Wall St., New York, N. Y.
 Pheoll Mfg. Co., 5700 Roosevelt Rd., Chicago 50, Ill.
 Philadelphia Insulated Wire Co., 220 N. 3rd St., Philadelphia, Pa.
 Philadelphia Steel & Wire Corp., Penn. St. & Belfield Ave., Philadelphia, Pa.
 Philadelphia Thermometer Co., 4401 N. Sixth St., Philadelphia, Pa.
 Philamon Laboratories, 5717 Third Ave., Brooklyn 20, N. Y.
 Philbrick Researches, Inc., George A., 230 Congress St., Boston 10, Mass.
 Philco Corp., Tioga & C Streets, Philadelphia 34, Pa.
 Phillips Control Corp., 84 W. Jefferson St., Joliet, Illinois.
 Phillips Petroleum Co., Special Products Div., Bartlesville, Okla.
 Philmore Mfg. Co., 113 University Place, New York 3, N. Y.
 Philson Mfg. Co., Inc., 60-66 Sackett St., Brooklyn 31, N. Y.
 Phonograph Needle Mfg. Co., Inc., 42 Dudley St., Providence 5, R. I.
 Phosphor Bronze Corp., 20 Franklin St., Seymour, Conn.
 Photobell Company, 116 Nassau St., New York 7, N. Y.
 Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif.
 Photographic Products, Inc., 955 N. Mansfield Ave., Hollywood 38, Calif.
 Photoswitch, Inc., 77 Broadway, Cambridge 42, Mass.
 Photovolt Corp., 95 Madison Ave., New York 16, N. Y.
 Photron Instrument Co., 6516 Detroit Ave., Cleveland 2, Ohio.
 Picker X-Ray Corp., 300 Fourth Ave., New York 10, N. Y.
 Pickering and Co., 309 Woods Ave., Oceanside, New York.
 Pierce Template Corp., 2646 N. Coral Street, Philadelphia 25, Pa.
 Piezo Mfg. Corp., 110 E. 42nd Street, New York 17, N. Y.
 Piezo Products Co., Whitney St., Framingham, Mass.
 Pilgrim Mfg. Co., 155 Chestnut St., Providence, R. I.
 Pilot Radio Corp., 37-06 36th St., Long Island City, N. Y.
 Pioneer Electric Co., 3700 East Olympic Blvd., Los Angeles 23, Calif.
 Pioneer Gen-E-Motor Corp., 5841 W. Dickens Ave., Chicago 39, Ill.
 Pioneer Scientific Corp., 295 Lafayette St., New York 12, N. Y.

Piqua Machine & Mfg. Co., Young & College Sts., Piqua, Ohio.

Pittsburgh Plate Glass Co., Pittsburgh, Pa.

Planet Mfg. Corp., 225 Belleville Ave., Bloomfield, N. J.

Plaskon Division, Libbey-Owens-Ford Glass Co., 2112-24 Sylvan Avenue, Toledo 6, Ohio.

Plastic Accessories, Inc., 93 Mercer St., New York 12, N. Y.

Plastic Fabricators Co., 440 Sansone Street, San Francisco 11, Calif.

Plastic Metals Division, The National Radiator Co., 169 Bridge Street, Johnstown, Pa.

Plastic Wire & Cable Corp., Jewett City, Conn.

Plasticraft Products Co., 20 Hudson St., New York 13, N. Y.

Plastics & Electronics Co., 272 Northland Ave., Buffalo 8, N. Y.

Plastimold Corp., Attleboro, Mass.

Plastoid Corp., 10 Mill Rd., Hamburg, N. J.

Plax Corp., P. O. Box 1019, Hartford 5, Conn.

Plume & Atwood Mfg. Co., Waterbury, Conn.

Poinsettia Co., Inc., 95 Cedar Ave., Pitman, N. J.

Polk Electronics, 119 Bleeker St., New York 12, N. Y.

Polan Industries, 220 Eighth St., Huntington, West Virginia.

Polard Electronics Corp., 100 Metropolitan Ave., Brooklyn 11, N. Y.

Polymer Corp., The Reading, Pa.

Polytech Devices, Inc., 1180½ E. Grand St., Elizabeth, N. J.

Polytechnic Research & Development Co., Inc., 202 Tillary St., Brooklyn 1, N. Y.

Polytron Corp., 133 Martine Ave., White Plains, N. Y.

Portis Mfg. Co., 3265 E. Belmont Ave., Fresno 3, Calif.

Post Co., Frederick, 3650 N. Avondale Ave., P. O. Box 803, Chicago 90, Ill.

Positive Lock Washer Co., 181 Miller St., Newark 5, N. J.

Potdevin Machinery Co., 1278 38th St., Brooklyn 18, N. Y.

Potter & Brumfield, Princeton, Indiana.

Potter Co., 1850 Sheridan Rd., No. Chicago, Ill.

Potter Instrument Co., 115 Cutter Mill Rd., Great Neck, N. Y.

Powdered Metal Products Corp., Franklin Park, Ill.

Power Equipment Co., 55 Antoinette St., Detroit 2, Mich.

Powhatan Mining Co., Baltimore 7, Md.

Pratt & Whitney Div., Niles-Bement-Pond Co., West Hartford 1, Conn.

Precise Measurements Co., 942 Kings Highway, Brooklyn 23, N. Y.

Precision Apparatus Co., Inc., 92-27 Horace Harding Blvd., Elmhurst, N. Y.

Precision Electronic Components Reg'd., P. O. Box 264, Granby, Quebec, Canada.

Precision Electronics, 641 Milwaukee Ave., Chicago 22, Ill.

Precision Metal Products Co. of Malden, 342 Eastern Ave., Malden 48, Mass.

Precision Paper Tube Co., 2033 W. Charleston St., Chicago 47, Ill.

Precision Piezo Service, 427 Mayflower St., Baton Rouge, La.

Precision Plastic Products Inc., 628-30 W. Lake St., Chicago 6, Ill.

Precision Products Co., 26 Bedford St., Waltham 54, Mass.

Precision Resistor Co., 334 Badger Avenue, Newark 8, N. J.

Precision Tube Co., Inc., 3828 Terrace St., Philadelphia 28, Pa.

Preis Engraving Machine Co., 649 Highway No. 29, Hillside, N. J.

Premax Products Div., Chisholm-Ryder Co., Inc., Niagara Falls 2, N. Y.

Premier Crystal Labs. Inc., 79-89 Seventh Ave., New York 11, N. Y.

Premier Metal Etching Co., 21-03 44th Ave., Long Island City, N. Y.

Press Wireless Mfg. Co., Inc., Cantiague Rd., Hicksville, L. I., N. Y.

Presto Recording Corp., Paramus, N. J.

Prestole Corp., 3119 Bellevue Rd., Toledo 6, Ohio.

Price Electric Corp., Frederick, Md.

Printloid Inc., 95 Mercer St., New York, N. Y.

Price & Instruments, 60 Greenpoint Ave., Brooklyn 22, N. Y.

Proctor Soundex Corp., 133 N. 6th Ave., Mt. Vernon, N. Y.

Product Development Co., Inc., Arlington, N. J.

Production Engineering Co., 173 Sargeant Ave., Clifton, N. J.

Production Equipment Co., 37 W. Main St., Coil Winding Machine Div., Oyster Bay, N. Y.

Progressive Mfg. Co., 50 Norwood St., Torrington, Conn.

Progressive Welder Co., 3050 E. Outer Dr., Detroit, Mich.

Pure Carbon Co., St. Marys, Pa.

Pyramid Electric Co., 155 Oxford St., Paterson, N. J.

Pyramid Instrument Corp., 49 Howard St., New York, N. Y.

Pyramid Products Co., 2224 S. State St., Chicago, Ill.

Pyroferic Co., 621 E. 216th St., New York 67, N. Y.

QRK Electronic Products, 445 N. Circle Drive, Fresno 4, Calif.

Q.V.S. Inc., 15 S. Essex St., Orange, N. J.

Quadriga Mfg. Co., 213 W. Grand Ave., Chicago 11, Ill.

Quaker City Gear Works, 1908-32 N. Front St., Philadelphia, Pa.

Quality Components, Inc., St. Marys, Pa.

Quam Nichols Co., 526 E. 33rd Pl., Chicago 16, Ill.

R. B. M. Division, Essex Wire Corp., Logansport, Ind.

RMS Electronics, Inc., 622 E. 6th St., New York, N. Y.

Racon Electric Co., 52 E. 19th St., New York 3, N. Y.

Radar Engineers, 110 University St., Seattle 1, Wash.

Rad-El-Co Mfg. Co., 7580 Garfield Blvd., Cleveland 25, Ohio.

Radex Corp., 2076 N. Elston Avenue, Chicago 14, Ill.

Radiart Corp., The, 3571 W. 62nd St., Cleveland, Ohio.

Radiation Counter Laboratories, Inc., 1844 West 21st St., Chicago 8, Ill.

Radio City Products, 152 W. 25th St., New York 1, N. Y.

Radio Condenser Co., Camden, N. J.

Radio Cores, Inc., 9540 Tully Ave., Oak Lawn, Ill.

Radio Corp. of America, RCA Victor Div., General Offices, Camden, N. J.

Radio Corp. of America, RCA Victor Div., Tube Dept., Harrison, N. J.

Radio Craftsmen, Inc., 1341 S. Michigan Ave., Chicago 5, Ill.

Radio Design Co., 1353 Sterling Place, Brooklyn, N. Y.

Radio Engineering Labs., Inc., 36-40 37th St., Long Island City, N. Y.

Radio Frequency Labs., Inc., Boonton 2, N. J.

Radio Mfg. Engineers Inc., 300-302 First Ave., Peoria 6, Ill.

Radio Materials Corp., 1708 Belmont Ave., Chicago 13, Ill.

Radio Merchandise Sales, 550 Westchester Ave., New York 55, N. Y.

Radio-Music Corp., Port Chester, N. Y.

Radio Receptor Co., 251 W. 19th St., New York 11, N. Y.

Radio Specialty Mfg. Co., 2023 S. E. Sixth Ave., Portland 14, Ore.

Radio Transceiver Laboratories, 116-23 Jamaica Ave., Richmond Hill 18, N. Y.

Radioactive Products Inc., 3201 E. Woodbridge St., Detroit 7, Mich.

Radiomarine Corp. of America, 75 Varick St., New York 13, N. Y.

Radionic Transformer Co., 411 S. Sangamon St., Chicago 7, Ill.

Rahn Instruments, Inc., 12 West Broadway, New York 7, N. Y.

Railway Communications, Inc., P. O. Box 1783, Lincoln, Neb.

Rangertone, Inc., 73 Winthrop St., Newark 4, N. J.

Rapid Specialties Co., 325 W. Huron Street, Chicago 10, Ill.

Rattan Mfg. Co., The, P. O. Box 1745, New Haven 7, Conn.

Rauland Corp., 4545 N. Knox Ave., Chicago 41, Ill.

Rauland-Borg Corp., 3523 W. Addison St., Chicago 18, Ill.

Rawson Electrical Instrument Co., 111 Potter St., Cambridge 42, Mass.

Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.

Ray-O-Vac Co., Madison, Wisconsin.

Raytheon Mfg. Co., Equipment Sales Div., Waltham 54, Mass.

Raytheon Mfg. Co., Power Tube Division, Waltham 54, Mass.

Raytheon Mfg. Co., Receiving & Special Tube Div., 55 Chapel St., Newton 58, Mass.

Rea Magnet Wire Co., E. Pontiac St., Fort Wayne Ind.

Ready Power Co., The, Power Plant Div., 11231 Freud Ave., Detroit 14, Mich.

Recordis Corp., 395 Broadway, New York, N. Y.

Recon Corp., 251 Fourth Ave., New York 10, N. Y.

Rectifier Engineering Co., 1803 E. Seventh St., Los Angeles 21, Calif.

Red Arrow Electric Corp., 100 Coit St., Irvington 11, N. J.

Red Bank Division, Bendix Aviation Corp., Red Bank, N. J.

Redmond Co., Inc., Owosso, Mich.

Reeder & Co., Charles M., 171 Victor Ave., Detroit 3, Mich.

Reeves-Hoffman Corp., 321 Cherry St., Carlisle, Pa.

Reeves Instrument Corp., 35-54 36th St., Long Island City, N. Y.

Reeves Soundcraft Corp., 10 E. 52nd St., New York 22, N. Y.

REF Mfg. Corp., Jericho Turnpike, Mineola, N. Y.

Reichhold Chemicals Inc., 601-707 Woodward Heights Blvd., Ferndale Sta., Detroit 20, Mich.

Reilly Tar and Chemical Corp., 1615 Merchants Bank Bldg., 11 S. Meridian St., Indianapolis, Ind.

Reiner Electronics Co., 152 W. 25th St., New York, N. Y.

Reisner Mfg. Co., Hagerstown, Md.

Rek-O-Kut Co., Inc., 38-01 Queens Blvd., Long Island City, N. Y.

Reliable Spring and Wire Forms Co., Fulton Rd. and Paris Ave., Cleveland 9, Ohio.

Reliance Automatic Lighting Co., 1919 Mead St., Racine, Wis.

Reliance Instrument Co., 3027 W. Van Buren St., Chicago 12, Ill.

Remington Radio Corp., 80 Main St., White Plains, N. Y.

Remington Rand, Inc., Vericon Dept., 315 4th Ave., New York, N. Y.

Remler Co., Ltd., 2101 Bryant St., San Francisco 10, Calif.

Repath Co., Paul R., 641 E. 61st St., Los Angeles 1, Calif.

Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.

Resistance Products Co., 714 Race St., Harrisburg, Pa.

Resistors, Inc., 5226 W. 26th St., Chicago 50, Ill.

Revere Copper & Brass Inc., 230 Park Ave., New York 17, N. Y.

Rex Rheostat Co., 3 Foxhurst Rd., Baldwin, N. Y.

Reynolds Metals Co., Market Research Dept., 19 E. 47th St., New York 17, N. Y.

Rhodes Inc., M. H., 30 Bartholomew Ave., Hartford, Conn.

Richards Co., Inc., Arklay S., 78 Winchester St., New-ton Highlands 61, Mass.

Richardson Allen Corp., 15 W. 20th St., New York 11, N. Y.

Richardson Company, The, 2767 Lake St., Melrose Park, Illinois.

Riggs & Jeffreys, Inc., 140 Glenridge Ave., Montclair, N. J.

Ripley Co., Inc., P. O. Box 31, Middletown, Conn.

Riverside Metal Co., Riverside, N. J.

Robbins & Myers, Inc., 1345 Lagoda Ave., Springfield 99, Ohio.

Robinette Co., W. C., 802 Fair Oaks Ave., South Pasadena, Calif.

Robinson Aviation, Inc., Teterboro, N. J.

Robotron Corp., 5570 W. Chicago Blvd., Detroit 4, Mich.

Rockbestos Products Corp., 308 Nicoll St., New Haven 4, Conn.

Roebeling's Sons Co., John A., 640 Broad St., Trenton 2, N. J.

Rogan Bros., 2500 W. Irving Park, Chicago 18, Ill.

Rogers Corp., Manchester, Conn.

Rohm & Haas Co., Washington Square, Philadelphia 5, Pa.

Rola Co., Inc., The, 2530 Superior Ave., Cleveland 14, Ohio.

Roller Electrical Co., 8020 S. South Park, Chicago, Ill.

Roller-Smith, Bethlehem, Pa.

Rollin Co., 2070 N. Fair Oaks Ave., Pasadena 3, Calif.

Rome Cable Corp., 330 Ridge St., Rome, N. Y.

Rosen Engineering Products, Inc., Raymond, 32nd & Walnut Sts., Philadelphia 4, Pa.

Ross Mfg. Co., 860 Washington St., Burlington, Iowa.

Rostan Corp., 202 East 44th St., New York 17, N. Y.

Rotron Mfg. Co., Inc., 7-9 Schoonmaker Lane, Woodstock, N. Y.

Rowe Industries, 1702 Wayne St., Toledo 9, Ohio.

Royal Diamond Tool Co., 172 Green St., Boston 30, Mass.

Roylyn Inc., 718 W. Wilson Ave., Glendale 3, Calif.

Rubicon Co., 3751 Ridge Ave., Philadelphia, Pa.

Ruby Chemical Co., 68 McDowell St., Columbus, Ohio.

Ruge-de Forest, Inc., 76 Massachusetts Ave., Cambridge 39, Mass.

Rupp's Assembling & Mfg. Works, 2341 N. Seminary Ave., Chicago 14, Ill.

Russell, Burdall & Ward Bolt and Nut Co., Midland Ave., Port Chester, N. Y.

Russell Electric Co., 4501 South Western Blvd., Chicago 9, Ill.

Russell & Stoll Co., Inc., 125 Barclay St., New York 7, N. Y.

Ryerson & Son, Inc., J. T., Box 8000-A, Chicago, Ill.

"S" Corrugated Quenched Gap Co., Scientific Electric Div., 107 Monroe St., Garfield, Chicago, Ill.

S. M. A. Co., 4721 N. Kedzie, Chicago, Ill.

S. N. C. Mfg. Co., Inc., Box 277, Oshkosh, Wis.

St. John X-RAY Laboratory, Califon, N. J.

St. Mary's Carbon Co., State Rd., St. Marys, Pa.

Sanborn Co., 39 Osborn St., Cambridge 39, Mass.

Sangamo Electric Co., Springfield, Illinois.

Sargent-Raymont Co., The, 212 Ninth St., Oakland, Calif.

Sarkes Tarzian Inc., 415 N. College Ave., Bloomington, Ind.

Sauereisen Cements Co., Sauereisen Bldg., Pittsburgh 15, Pa.

Saxl Instrument Co., Harvard, Mass.

Schaevitz Engineering, Crescent Blvd. at Drexel Ave., Pennsauken Township, Camden 11, N. J.

Schauer Mfg. Corp., 2119 Reading Rd., Cincinnati 2, Ohio.

Schenectady Varnish Co., Schenectady, N. Y.

Scherr Co., Inc., George, 200 Lafayette St., New York 12, N. Y.

Schott Co., Walter L., 9306 Santa Monica Blvd., Beverly Hills, Calif.

Schottland Vibration & Shock Div., New York Testing Labs., Inc., 80 Washington St., New York 6, N. Y.

Schrader Co., J., 4603 Fenwick Ave., Cleveland, Ohio.

Schulmerich Electronics, Inc., Sellersville, Pa.

Schutter, Carl W., Rockville Centre, N. Y.

Schuttig & Co., Inc., 9th & Kearney Sts., N. E., Washington 17, D. C.

Schwitzer Corp., Peter J., 405 Lexington Ave., New York 17, N. Y.

Sciaky Bros., Inc., 4915 W. 67th St., Chicago 38, Ill.

Scientific Radio Products Co., 738 W. Boradway, Council Bluffs, Iowa.

Scientific Radio Service, 4301 Sheridan St., University Park, Md.

Scintilla Magnet Div., Bendix Aviation Corp., Sidney, N. Y.

Scott Inc., Herman Hosmer, 385 Putnam Ave., Cambridge 39, Mass.

Scott Radio Labs., Inc., 4451 N. Ravenswood Ave., Chicago 40, Ill.

Scovill Mfg. Co., Industrial Fastener Div., Waterbury, Conn.

Scully Machine Co., 62 Walter St., Bridgeport, Conn.

Seaboard Electric Co., 145 Hudson St., New York, N. Y.

Seager Carbon Co., 289 Church St., New York 15, N. Y.

Sealor Corp., 45 Willard Ave., Providence 5, R. I.

Secor Metals Corp., 228 E. 45th St., New York 17, N. Y.

Seeburgh Corp., J. P., 1500 N. Dayton Ave., Chicago 22, Ill.

Selectar Industries, Inc., 401 East 138th St., New York 54, N. Y.

Sensitive Research Instrument Corp., 9 Elm Ave., Mt. Vernon, N. Y.

Sentinel Radio Corp., 2100 Dempster St., Evanston, Ill.

Sentry Crystal Co., 206 S. W. Washington St., Portland 4, Oregon.

Serdex, Inc., 91 Cambridge St., Boston, Mass.
 Servo Corp. of America, 2020 Jericho Turnpike, New Hyde Park, N. J.
 Servo-Tek Products Co., 4 Godwin Ave., Paterson, N. J.
 Servomechanisms Inc., 142 Mineola Blvd., Mineola, N. Y.
 Sessions Clock Co., Forestville, Conn.
 Shakeproof Inc., Div. of Illinois Tool Wks., 2501 N. Keeler Ave., Chicago 39, Ill.
 Shallcross Mfg. Co., 10 Jackson Ave., Collingdale, Pa.
 Shannon Luminous Materials Co., 7356 Santa Monica Blvd., Hollywood 46, Calif.
 Shaw Insulator Co., 160 Coit St., Irvington 11, N. J.
 Sheffield Instrument Corp., 2021 N. Lincoln St., Burbank, Calif.
 Sheldon Electric Co., 76-86 Coit St., Irvington, N. J.
 Sherman Industrial Electronics Co., Inc., 505 Washington Ave., Belleville 9, N. J.
 Sherman Lamination Co., The Stratford, Conn.
 Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
 Sherold Specialty Products, 68 E. 131st St., New York, N. Y.
 Sherron Electronics Co., 1201 Flushing Ave., Brooklyn 6, N. Y.
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
 Shevers Inc., Harold, 123 W. 64th St., New York 23, N. Y.
 Short Wave Plastic Forming Co., 2921 W. Alameda St., Burbank, Calif.
 Shure Brothers, Inc., 225 W. Huron St., Chicago 10, Ill.
 Shurite Meters, 61 Hamilton St., New Haven 8, Conn.
 Sickles Co., F. W., P. O. Box 330, Chicopee, Mass.
 Sierra Electronic Corp., San Carlos, Calif.
 Sightmaster Corp., 20 E. 35th St., New York 16, N. Y.
 Sigma Instruments, Inc., 80 Ceylon St., Boston 22, Mass.
 Signal Engineering & Mfg. Co., 154-6 W. 14th St., New York, N. Y.
 Signet Development Co., 188 W. Randolph St., Chicago 1, Ill.
 Sig-Trans Inc., Amesbury, Mass.
 Sillocks-Miller Co., 10 Parker Ave., West, So. Orange, N. J.
 Simmonds Saw & Steel Co., Lockport, N. Y.
 Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass.
 Simpson Electric Co., Div. of American Gage & Machine Co., 5218 W. Kinzie St., Chicago 44, Ill.
 Simpson Mfg. Co., Inc., Mark, 32-28 49th St., Long Island City 3, N. Y.
 Sipp-Eastwood Corp., Keen and Summer Sts., Paterson, N. J.
 Sisalkraft Co., 205 W. Wacker Drive, Chicago 6, Ill.
 Skaneteales Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.
 Skinner Electric Valve Div., The Skinner Chuck Co., 40 Belden Ave., Norwalk, Conn.
 Skydyne Inc., River Rd., Port Jervis, N. Y.
 Slepian Co., Arthur, Bridgeport, Conn.
 Small Motors, Inc., 2076 Elston Ave., Chicago 14, Ill.
 Smith, Inc., Herman H., 405 44th St., Brooklyn 20, N. Y.
 Smith Mfg. Co., Nathan R., 105 Pasadena Ave., So. Pasadena, Calif.
 Smith Paper Inc., Lee, Mass.
 Smuckler & Co., Inc., A. F., 202 Tillary St., Brooklyn 1, N. Y.
 Sola Electric Co., 4633 W. 16th St., Chicago 50, Ill.
 Soldering Specialties Co., Summit, N. J.
 Somerset Laboratories, Inc., 1701 Palisades Ave., Union City, N. J.
 Sonar Radio Corp., 59 Myrtle Ave., Brooklyn 1, N. Y.
 Sonic Recording Products, Inc., 58 Mill Rd., Freeport, N. Y.
 Sonotone Corp., P. O. Box 200, Saw Mill River Road, Elmsford, N. Y.
 Sorensen & Co., Inc., 375 Fairfield Ave., Stamford, Conn.
 Sorgel Electric Co., 838 W. National Ave., Milwaukee 4, Wis.
 Sound Apparatus Co., Stirling, N. J.
 Soundscriber Corp., 146 Munson St., New Haven 4, Conn.
 South River Metal-Products Co., South River, N. J.
 Southington Hardware Mfg. Co., Southington, Conn.
 Southwestern Industrial Electronic Co., 2831 Post Oak Rd., Houston 19, Texas.
 Sovereign Television Co., 5508 New Utrecht Ave., Brooklyn 19, N. Y.
 Spartan Radio-Television Div., The Sparks-Withington Co., Jackson, Mich.
 Spaulding Fibre Co., Inc., 310 Wheeler St., Tonawanda, N. Y.
 Speak-O-Phone Recording & Equipment Co., 23 W. 60th St., New York, N. Y.
 Special Chemicals Corp., 30 Irving Place, New York 3, N. Y.
 Special Instruments Laboratory, Inc., 1003 Highland Ave., Knoxville, Tenn.
 Special Products Co., 9115 Brookville Rd., P. O. Box 471, Silver Spring, Md.
 Specialty Battery Co., Madison 4, Wisconsin.
 Speer Carbon Co., Lincoln Ave., St. Marys, Pa.
 Speer Resistor Corp., St. Marys, Pa.
 Spellman Television Co., Inc., 3029 Webster Ave., New York 11, N. Y.
 Spencer-Kennedy Labs., Inc., 186 Massachusetts Ave., Cambridge 39, Mass.
 Spencer Thermostat Co., 34 Forest St., Attleboro, Mass.
 Sperman Metal Specialties, 27 Columbia Place, Brooklyn 2, N. Y.
 Sperry Gyroscope Co., Div. of The Sperry Corp., Great Neck, N. Y.
 Sperry Products, Inc., Danbury, Conn.
 Sperti, Inc., Cincinnati 12, Ohio.
 Sprague Electric Co., North Adams, Mass.
 Sta-Warm Electric Co., Ravenna, Ohio.
 Stackpole Carbon Co., St. Marys, Pa.
 Staedler Inc., J. S., 55 Worth St., New York, N. Y.
 Stamford Metal Specialty Co., 429 W. Broadway, New York 12, N. Y.
 Stancil-Hoffman Corp., 1016 N. Highland Ave., Hollywood 38, Calif.
 Standard Arcturus Corp., 54 Clark St., Newark 4, N. J.
 Standard Coil Products Co., 2329 N. Pulaski Rd., Chicago 39, Ill.
 Standard Crystal Co., 400 Armstrong Ave., Kansas City 7, Kans.
 Standard Electric Time Co., The, 89 Logan St., Springfield, Mass.
 Standard Electrical Products Co., 402 E. 1st St., Dayton 3, Ohio.
 Standard Electronics Research Corp., 2 East End Ave., New York 21, N. Y.
 Standard Locknut & Lockwasher Inc., 504 N. Capitol Ave., Indianapolis, Ind.
 Standard Piezo Co., 127 Cedar St., Carlisle, Pa.
 Standard Pressed Steel Co., Jenkintown 10, Pa.
 Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W. C. 2, England.
 Standard Transformer Corp., Elston, Kedzie & Addison Sts., Chicago 18, Ill.
 Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y.
 Standard Winding Corp., 44-62 Johnes St., Newburgh, N. Y.
 Stanley Works, The, New Britain, Conn.
 Stanwyck Winding Co., 137 Walsh Ave., Newburgh, N. Y.
 Star Expansion Products Co., 147-149 Cedar St., New York 6, N. Y.
 Star Kimble Electric Co., 200 Bloomfield Ave., Bloomfield, N. J.
 Star Measurements Co., 442 East 166th St., New York 56, N. Y.
 Star Porcelain Co., 61 Muirhead Ave., Trenton 9, N. J.
 States Co., 19 New Park Ave., Hartford 6, Conn.
 Statham Laboratories, Inc., 9328 Santa Monica Blvd., Beverly Hills, Calif.
 Stavel Co., Inc., 91 Pearl St., Brooklyn 1, N. Y.
 Steel Co., Herman D., Lafayette Bldg., Philadelphia 6, Pa.
 Steer Furniture Mfg. Co., Steger, Ill.
 Steiner Mfg. Co., Wm., 43 Bruen St., Newark 5, N. J.
 Steiner-Ives Co., 16 Avenue L, Newark 5, N. J.
 Stephens Mfg. Corp., 8538 Warner Driver, Culver City, Calif.
 Sterling Engineering Co., Laconia, N. H.
 Sterling Mfg. Co., 9205 Detroit Ave., Cleveland 2, Ohio.
 Sterling Television Inc., 15 W. Lake St., Chicago 1, Ill.
 Stevens-Arnold Inc., 22 Elkins St., South Boston, Mass.
 Stevens Mfg. Co., Inc., Mansfield, Ohio.
 Stevens Mfg. Co., Inc., Geo., 6022 N. Rogers Ave., Pulaski & Peterson, Chicago 30, Ill.
 Stevens Products Inc., 86-88 Mail St., East Orange, N. J.
 Stevens Wire Insulating Co., 6022 N. Rogers Ave., Pulaski & Peterson, Chicago 30, Ill.
 Stevenson Bro. & Co., 110 Race St., Philadelphia 6, Pa.
 Steward Mfg. Co., D. M., Chattanooga, Tenn.
 Stewart Mfg. Corp., F. W., 4311 Ravenswood Ave., Chicago 13, Ill.
 Stewart-Warner Electric Div., Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Illinois.
 Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N. Y.
 Stimpson Co., Inc., Edwin B., 74 Franklin Ave., Brooklyn 5, N. Y.
 Stoddard Aircraft Radio Co., 6644 Santa Monica Blvd., Hollywood 38, Calif.
 Stokes Machine Co., F. J., 5850 Tabor Road, Olney Post Office, Philadelphia 20, Pa.
 Stolle Engineering & Mfg. Co., 3970 S. Grand Ave., Los Angeles 37, Calif.
 Stover Lock Nut & Machinery Corp., Hilton & Holly Sts., Easton, Pa.
 Stow Manufacturing Co., 445 State St., Binghamton, N. Y.
 Streeter-Amet Corp., 4101 N. Ravenswood Ave., Chicago 13, Ill.
 Stromberg-Carlson Co., Rochester 3, N. Y.
 Stronghold Screw Products Inc., 216-222 West Hubbard St., Chicago 10, Ill.
 Struthers-Dunn, Inc., 150 N. 13th Street, Philadelphia 7, Pa.
 Stupakoff Ceramic & Mfg. Co., Latrobe, Pa.
 Submarine Signal Div., Raytheon Mfg. Co., Waltham, Mass.
 Summerill Tubing Co., Div., Columbia Steel & Shafting Co., P. O. Box 1557, Pittsburgh 30, Pa.
 Sun Copper & Wire Co., 132 Beckwith Ave., Paterson, N. J.
 Sun Dial Corp., E. Passaic Ave., Caldwell Township, N. J.
 Super Electric Products Corp., 46 Oliver St., Newark, N. J.
 Super Flow Solder Co., Inc., 90 State St., Albany, N. Y.
 Superior Electric Co., The, 83 Meadow St., Bristol, Conn.
 Superior Flake Graphite Co., 33 S. Clark St., Chicago 3, Ill.
 Superior Flux & Mfg. Co., 1302 Ontario St., Cleveland 13, Ohio.
 Superior Instruments Co., 337 Fulton St., New York 7, N. Y.
 Superior Tube Co., 2504 Germantown Pike, Norristown, Pa.
 Supreme, Inc., Greenwood, Miss.
 Surprenant Mfg. Co., 199 Washington St., Boston 10, Mass.
 Swartz & Co., Chicago, Ill.
 Swiss Jewel Co., Lafayette Bldg., Philadelphia 6, Pa.
 Switchcraft, Inc., 1328-30 N. Halsted St., Chicago 22, Ill.
 Sylvania Electric Products, Inc., General Sales & Executive Offices, 1740 Broadway, New York 19, N. Y.
 Sylvania Electric Products, Inc., Radio & Television Div., 254 Rano St., Buffalo 7, N. Y.
 Sylvania Electric Products, Inc., Radio Tube Div., Emporium, Pa.
 Symphony Radio & Television Corp., 721 N. Mariel Ave., Los Angeles 46, Calif.
 Symphonic Radio & Electronic Corp., 292-8 Main St., Cambridge 42, Mass.
 Synchro Start Products, Inc., 1046 W. Fullerton Ave., Chicago 14, Ill.
 Synchron Products Co., Malden, Mass.
 Synthane Corp., Oaks, Pa.
 Synvar Corp., 415 E. Front St., Wilmington, Del.
 Syracuse Ornamental Co., Inc., 581 S. Clinton St., Syracuse, N. Y.
 Tablet & Ticket Co., 1021 W. Adams St., Chicago 7, Ill.
 Takk Corp., Newark, Ohio.
 Talk-A-Phone Co., 1512 S. Pulaski Rd., Chicago 23, Ill.
 Taybern Equipment Co., Inc., 120 Greenwich St., New York 6, N. Y.
 Taylor Fibre Co., Norristown, Pa.
 Taylor Tubes, Inc., 2312 Wabansa Ave., Chicago 47, Ill.
 Tech Laboratories, Inc., Bergen & Edsall Bldgs., Palisades Park, N. J.
 Tech-Master Products Co., 443-445 Broadway, New York 13, N. Y.
 Technical Appliance Corp., Sherburne, N. Y.
 Technical Associates, 3730 San Fernando Rd., Glendale 4, Calif.
 Technical Materiel Corp., The, 453 W. 47th St., New York 19, N. Y.
 Technicraft Laboratories, Inc., Thomaston-Waterbury Rd., Thomaston, Conn.
 Technicraft Supply Co., Radiocrafters, 1156 Commonwealth Ave., Boston 34, Mass.
 Technitrol Engineering Co., 3212 Market St., Philadelphia, Pa.
 Technology Instrument Corp., 1058 Main St., Waltham, Mass.
 Teiner Engineering Corp., 115 Madison St., Malden 48, Mass.
 Tektronix, Inc., 712 S. E. Hawthorne Blvd., Portland 14, Ore.
 TelAutograph Corp., 16 W. 61st St., New York 23, N. Y.
 Tele King Corp., 601 W. 26th St., New York 1, N. Y.
 Tele-Tone Radio Corp., 540 W. 58th St., New York 19, N. Y.
 Telechron Inc., Homer Ave., Ashland, Mass.
 Telectro Components, 141 Belleville Ave., N. J.
 Telectron Co., The, 4019 Prospect St., Cleveland 3, Ohio.
 Telegraph Condenser Co., Ltd., Wales Farm Rd., Acton, London, W. 3.
 Telemark Electronics Corp., 150 Broadway, New York, N. Y.
 Telemark, Inc., 100 Greyrock Pl., Stamford, Conn.
 Telephonics Corp., Park Ave., Huntington, N. Y.
 Telequip Radio Co., 1901 S. Washtenaw, Chicago, Ill.
 Telegadio Engineering Corp., 99 Wall St., New York 5, N. Y.
 Teletronics Laboratory, Inc., 352 Maple Ave., Westbury, L. I., N. Y.
 Television Associates, Inc., E. Michigan St., Michigan City, Ind.
 Television Utilities Corp., 1261 Broadway, New York 1, N. Y.
 Television Zoomar Corp., Room 2223, 500 Fifth Avenue, New York, N. Y.
 Tele-Video Corp., 241 Fairfield Ave., Upper Darby, Pa.
 Teletronics Corp., 8479 Higiera St., Culver City, Calif.
 Television Equipment Corp., 238 William St., New York, N. Y.
 Television Projects, Inc., 3660 Coral Way, Miami 34, Fla.
 Telex Inc., Telex Park, St. Paul 1, Minn.
 Tel-Instrument Co., Inc., 50 Paterson Ave., E. Rutherford, N. J.
 Tel-O-Tube Corp. of America, Paterson, N. J.
 Telrex, Inc., Box 879, Rutherford & Neptune Highway, Asbury Park, N. J.
 Television Laboratories, Inc., 542 N. Parkside Ave., Chicago 44, Ill.
 Tempo Record Co. of America, 8540 Sunset Blvd., Hollywood 46, Calif.
 Tennessee Eastman Corp., Sub., Eastman Kodak Co., Kingsport, Tenn.
 Tenney Engineering Inc., 26 Avenue B., Newark 5, N. J.
 Tenso-lite Corp., 7 Hudson St., N. Tarrytown, N. Y.
 Terpening Co., L. H., 16 W. 61st St., New York, N. Y.
 Tetrad Corp., 60 N. Broadway, Yonkers 2, N. Y.
 Thall Plastic Engineering Co., 155 Chambers St., New York, N. Y.
 Ther Electric & Machine Works, 15 South Jefferson St., Chicago, Ill.
 Thermador Electric Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.
 Thermal Syndicate Ltd., 12 E. 46th St., New York 17, N. Y.
 Thomas & Betts Co., Inc., 36 Butler Street, Elizabeth 1, N. J.
 Thomas & Skinner Steel Products Co., 1122 E. 23rd St., Indianapolis, Ind.
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 Thomas Corp., The, George S., South Pasadena, Calif.
 Thompson & Associates, John E., 7210 S. Yates Ave., Chicago 49, Ill.
 Thor Ceramics Inc., 225 Belleville Ave., Bloomfield, N. J.
 Thordarson Electric Mfg. Div., Maguire Industries, Inc., 500 W. Huron St., Chicago 10, Ill.

- Thwing-Albert Instrument Co., 5351 Pulaski Avenue, Philadelphia 44, Pa.
- Tibbetts Industries, Inc., Camden, Maine.
- Times Facsimile Corp., 229 W. 43rd St., New York, N. Y.
- Timken Roller Bearing Co., Canton 6, Ohio.
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- Titeflex, Inc., 500 Frelinghuysen Ave., Newark 5, N. J.
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- Ton-Tex Corp., 247 Pearl St. N. W., Grand Rapids 2, Mich.
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- Torocoil Co., 53-78 Northland Ave., St. Louis 12, Mo.
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- Transcoil Corp., 107 Grand St., New York, N. Y.
- Transformer Engineers, 389 South Arroyo Parkway, Pasadena, Calif.
- Transmitter Equipment Co., Inc., 345 Hudson St., New York 14, N. Y.
- Transradio, Ltd., 138A Cromwell Rd., London SW 7, England.
- Trans-Sonics, Inc., Bedford Airport, Bedford, Mass.
- Transvision Inc., 460 North Ave., New Rochelle, N. Y.
- Trav-Ler Radio Corp., 571 W. Jackson Blvd., Chicago, Ill.
- Tressel Television Productions, Inc., 2214 E. 75th St., Chicago 49, Ill.
- Triad Portable Case Corp., 2545 Boston Rd., Bronx 67, N. Y.
- Triad Transformer Mfg. Co., 2254 Sepulveda Blvd., Los Angeles 64, Calif.
- Trico Fuse Mfg. Co., 2948 N. Fifth, Milwaukee 12, Wis.
- Tricraft Products Co., 1535 N. Ashland Ave., Chicago 22, Ill.
- Trim Inc., 400 W. Lake St., Libertyville, Ill.
- Trion, Inc., 1000 Island Ave., McKees Rocks, Pa.
- Triplet & Barton Inc., 831 N. Lake St., Burbank, Calif.
- Triplet Electrical Instrument Co., 286 Harmon Road, Bluffton, Ohio.
- Triumph Mfg. Co., 913 W. Van Buren St., Chicago 7, Ill.
- Trumbull Electric Mfg. Co., Plainville, Conn.
- Truscon Steel Co., Youngstown, Ohio.
- Tubular Rivet & Stud Co., Wollaston 70, Mass.
- Tung-Sol Lamp Works Inc., 95 Eighth Ave., Newark 4, N. J.
- Turner Co., The, 909 17th St., N. E., Cedar Rapids, Iowa.
- Tuttle & Kift, 1823 N. Monitor St., Chicago 39, Ill.
- U.H.F. Resonator Corp., 224 Seventh St., Racine, Wis.
- Ucinite Co., The, Division United-Carr Fastener Corp., 459 Watertown St., Newtonville, Mass.
- Ulanet Co., George, 413 Market St., Newark 5, N. J.
- Ultradyn Electronics, Oswego, Oregon.
- Ultra-Violet Products, Inc., 145 Pasadena Ave., S. Pasadena, Calif.
- Ungar Electric Tools Inc., 615 Ducommun St., Los Angeles 54, Calif.
- Uniform Tubes, Shurs Lane & Laruiston St., Roxborough, Philadelphia, Pa.
- Unimax Switch Div. of W. L. Maxon Corp., 460 W. 34th St., New York 1, N. Y.
- Uni-Products Inc., 1048 Potomac St., N. W., Washington 7, D. C.
- Union Bay State Chemical Co., Cambridge, Mass.
- Union Electric Products Co., 24 Edison Place, Newark 2, N. J.
- United Carr Fastener Corp., Cambridge 42, Mass.
- United Condenser Corp., 337 E. 139th St., New York 54, N. Y.
- United Electric Controls Co., 85 School St., Watertown 72, Mass.
- United Electronics Co., 42 Spring St., Newark 2, N. J.
- United Industries, Inc., Everett, Mass.
- United Screw & Bolt Corp., 2513 W. Cullerton St., Chicago, Ill.
- United Shoe Machinery Corp., 140 Federal St., Boston, Mass.
- U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles, Calif.
- U. S. Electronic Co., 262 Canner St., New Haven 11, Conn.
- U. S. Electronics Corp., 276 Warren St., Lyndhurst, N. J.
- U. S. Engineering Co., 521 Commercial St., Glendale 3, Calif.
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- U. S. Radium Corp., 535 Pearl St., New York 7, N. Y.
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- United Transformer Co., 150 Varick Street, New York 13, N. Y.
- United Wood Specialty Mfg. Co., Inc., 951 Broadway, Fall River, Mass.
- Universal Broadcast Equipment Corp., 6035 Northwest Highway, Chicago 31, Ill.
- Universal Drafting Machine Corp., 7960 Lorain Ave., Cleveland 2, Ohio.
- Universal Electric Co., 300 E. Main St., Owosso, Mich.
- Universal Winding Co., 1655 Elmwood Ave., Cranston 3, R. I.
- University Loudspeakers, Inc., 80 S. Kensico Ave., White Plains, N. Y.
- Utah, Inc., E. Franklin St., Huntington, Indiana.
- V-M Corp., Benton Harbor, Mich.
- Vaco Products Co., 317 E. Ontario St., Chicago 11, Illinois.
- Vacuum Electronic Engineering Co., 316 37th St., Brooklyn 2, N. Y.
- Vacuum Tube Products, 302 North Clementine St., Oceanside, Calif.
- Valco Mfg. Co., 4700 W. Walton St., Chicago 51, Ill.
- Vallores Jewel Co., Lancaster, Pa.
- Valpey Crystals, Highland St., Holliston, Mass.
- Vangtronic Corp., The, 237 John St., Bridgeport 3, Conn.
- Vapor Recovery Systems Co., 2820 N. Alameda, Compton, Calif.
- Varflex Corp., 308 N. Jay St., Rome, N. Y.
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- Varian Associates, 99 Washington St., San Carlos, Calif.
- Varo Mfg. Co., Inc., Box 638, Garland, Texas.
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- Vibracloc Corporation, 425 Bush St., San Francisco 8, Calif.
- Vibration Systems, Inc., 1040 W. Fort St., Detroit 26, Mich.
- Vibroplex Co., Inc., 833 Broadway, New York, N. Y.
- Vickers Electric Div., Vickers Inc., 1815 Locust St., St. Louis 3, Mo.
- Victor Electric Products Inc., 2950 Robertson Ave., Cincinnati 9, Ohio.
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- Video Corp. of America, 229 W. 28th St., New York 1, N. Y.
- Viewlex Inc., 35-01 Queens Blvd., Long Island City 1, N. Y.
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- Ward Leonard Electric Co., 31 South St., Mt. Vernon, N. Y.
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- Waterman Products Co., Inc., 2445-63 Emerald St., Philadelphia 25, Pa.
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- Webster-Chicago Corp., 5622 Bloomingdale Ave., Chicago 39, Ill.
- Webster Electric Co., 1900 Clark St., Racine, Wis.
- Webster Spring Corp., 176-182 Johnson St., Brooklyn 1, N. Y.
- Weil & Co., J. H., 1315 Cherry Street, Philadelphia 7, Pa.
- Weinschel Engineering Co., 123 William St., New York 7, N. Y.
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- Weller Mfg. Co., 806 Packer St., Easton, Pa.
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- Westinghouse Electric Corp., Electronic Tube Sales Dept., Bloomfield, N. J.
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- Weymouth Instrument Co., 1440 Commercial St., East Weymouth 89, Mass.
- Wheaton Co., T. C., Industrial Div., 220 G St., Millville, N. J.
- Wheelco Instruments Company, 847 W. Harrison Street, Chicago 7, Ill.
- Wheeler Insulated Wire Co., Inc., 150 E. Aurora St., Waterbury 91, Conn.
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- Wiedemann Machine Co., 4272 Wissahickon Ave., Philadelphia 32, Pa.
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- Wile Electric Co., New London, Conn.
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- Wind Turbine Co., Tower & Antenna Div., E. Market St. & Penna. R. R., West Chester, Pa.
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- Wisconsin Porcelain Co., Sun Prairie, Wis.
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- Woodwelding, Inc., 3000 W. Olive Ave., Burbank, Calif.
- Worcester Pressed Aluminum Corp., 13-15 Hope Ave., Worcester 3, Mass.
- Workshop Associates Inc., The, 66 Needham St., Newton Highlands 61, Mass.
- Worner Electronic Devices, Rankin, Ill.
- Wright & Sons Co., William E., West Warren, Mass.
- Wrought Washer Mfg. Co., 2264 S. Bay St., Milwaukee 7, Wis.
- Wurlitzer Co., Rudolph, The, North Tonawanda, N. Y.
- York Materials Co., Inc., P. O. Box 510, Jamalca, N. Y.
- Young Brothers Co., 1829 Columbus Rd., Cleveland, Ohio.
- Z & W Machine Products Inc., Electronic Div., 5151 St. Clair Ave., Cleveland 3, Ohio.
- Zenith Electric Co., 152 W. Walton St., Chicago 10, Ill.
- Zenith Optical Co., Div. of Polan Industries, Huntington 19, West Virginia.
- Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Ill.
- Zephyr Products Co., 160 E. 116th St., New York 29, N. Y.
- Zernickow Co., O., 15 Park Row, New York 7, N. Y.
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- Zierick Mfg. Corp., Beechwood & Rockdale Aves., New Rochelle, N. Y.
- Zophar Mills Inc., 112-130 26th St., Brooklyn 32, N. Y.

Distributors of ELECTRONIC COMPONENTS AND EQUIPMENT

The following is a list of distributors who are selling and stocking, for immediate delivery, electronic components, instruments, audio equipment, associated apparatus and allied products. These distributors perform a valuable service to manufacturers of electronic equipment by providing quick delivery to meet the urgent requirements of designers and purchasing agents. This list is provided for the convenience of our subscribers and comprises the leading electronic distributors in the United States. Distributors who are advertisers in this issue have their names boldfaced and page number reference made to their advertisements. For further information regarding the services of these distributors, kindly refer to their advertisements.

ALABAMA

Ack Radio Supply Co., 2205 3rd Ave., N., Birmingham 3.
Allen & Jemison Co., Tuscaloosa.
Auto Service Co., 1916 S. 4th Avenue, Birmingham.
Bessemer Radio Supply Co., 116-118 N. 20th, Bessemer.
Clary, Co., James W., 2024 Fourth Ave., Birmingham.
Forbes Distributing Co., 2600 Third Avenue, S., Birmingham 5.
Hand Wholesale Radio, 231 South St., Dothan.
Harris Supply Co., Inc., 10 N. Water St., Mobile 6.
McDavid, & Co., Inc., R. P., 1630 Second Ave., Birmingham.
McGowin-Lyons Hardware & Supply Co., 113-125 N. Water St., P. O. Box 1209, Mobile.
Nelson Radio & Supply Co., 265 St. Louis St., Mobile 10.
Nolin-McInnis, Inc., 205 Commerce St., Montgomery 3.
Reid Distributing Co., 1724 Fifth Ave., N., Birmingham.
Signal Radio Supply Co., 243 E. Troy St., Dothan.
Southeastern Radio Parts Co., 210 Court St., Montgomery.
Teague Hardware Co., 204 Commerce St., Montgomery.

ALASKA

Alaska Radio Supply, Inc., Box 84-318 8th Ave., Anchorage.

ARIZONA

Dalis Brothers, 528 W. Jefferson St., Phoenix.
Electrical Equipment Co. of Arizona, P. O. Box 2630, Phoenix.
Midland Specialty Co., 233 S. 11th Avenue, Phoenix.
Radio Parts of Arizona, 36 W. Madison St., Phoenix.
Radio Specialties & Appl. Corp., 401 W. Jackson, P. O. Box 2229, Phoenix.
Standard Radio Parts, 551 N. 4th Ave., Tucson.

ARKANSAS

Blytheville Radio Supply, 112 S. First St., Blytheville.
Carlton Wholesale Radio, Inc., 109 W. 9th St., Little Rock.
Martin Wholesale Radio Supply, 1207 W. Kingshighway, Paragould.
Southern Radio Supply, 1419 Main St., Little Rock.
White Radio Supply Co., David, P. O. Box 408, 1222 Main St., Little Rock.
Wise Radio Supply, 1001 Towson Ave., Fort Smith.

CALIFORNIA

Altshuler Co., Cass, 6038 Telegraph Ave., Oakland.
Arbuckle, Jack C., 523 E. 19th Street, Bakersfield.
Arbuckle, Jack C., 2330 Kern St., Fresno.
Associated Radio Distributors, 1251-3 Folsom St., San Francisco.
Barrett, Kaemper, Dealers Supply Co., 1850 Mission St., San Francisco.
Braun-Knecht-Heimann Co., 1400 16th St., San Francisco.
Brill & Co., W. D., 198 10th St., Oakland.
Brill Co., W. D., 96 Camino Encinas, Orinda.
Brown Co., C. C., 61 Ninth St., San Francisco 3.
California Electronic Supply, 11801 W. Pico Blvd., Los Angeles 34.
Capitol Records, Inc., Sunset & Vine, Hollywood 28.
Channel Radio Supply Co., 434 State St., Santa Barbara.
Coast Electric Co., 744 G St., San Diego 12.
Dean Co., Fred S., 969 American Ave., Long Beach 13.
DeJarnett Radio Supply, 1260 Van Ness St., Fresno.
Dow Radio Supply Co., 1759 E. Colorado St., Pasadena 4.
Duniap Wholesale Radio Co., 2001 "O" St., Sacramento.
Duniap Wholesale Radio Co., Carter W., 12 N. Aurora St., Stockton 8.

Electric Supply Co., 149 12th St., Oakland.
Electronic Equipment Distributors, 1228 Second Ave., San Diego.
Electronic Supply Co., 150 W. Green St., Pasadena.
Empire Electronic Supply, Inc., 37 E. Union St., Pasadena.
Figart's Radio Supply Co., 6320 Commodore Sloat Dr., Los Angeles 36.
Gough Industries, Inc., 827 E. First St., Los Angeles.
Haggerty Radio Supply, 6826 San Fernando Rd., Glendale.
Henry Radio Shop, 11240 W. Olympic Blvd., Los Angeles.
Hollywood Radio Supply Inc., 5606 Hollywood Blvd., Hollywood 28.
Inland Electronic Supply, 863 Colton Ave., San Bernardino.
Kaemper-Barrett Dealers Supply Co., 1940 Ashby Ave., Berkeley.
Kaemper-Barrett Dealers Supply Co., 1850 Mission St., San Francisco.
Kemp Co., E. M., 1115 R Street, Sacramento.
Kierulff & Co., 725 L St., Fresno.
Kierulff & Co., 820-830 W. Olympic Blvd., Los Angeles.
Lynde Radio Supply, Larry, 853 Pine Ave., Long Beach.
Mac's Radio Supply, 8320 Long Beach Blvd., South Gate.
Martin Distributing Co., 2303 S. Union Ave., Los Angeles 7.
Meyberg Co., Inc., Leo J., 2027 S. Figueroa St., Los Angeles 15.
Meyberg Co., Leo, 70 Tenth St., San Francisco.
Millers Radio & Television, 188 12th St., Oakland.
Nelson Brothers Co., 630 N. Alvarado, Los Angeles.
Pacific Radio Exchange, 1407 Cahuenga Blvd., Los Angeles.
Pacific Wholesale Co., 116 N. 9th St., San Francisco.
Papel Bros., 2639 E. Fourth St., Los Angeles.
Pasadena Radio Supply, 6110 Santa Monica Blvd., Hollywood 38.
Quement Inc., Frank, 161 W. San Fernando St., San Jose.
Radio Doc, 721 S. Main St., Los Angeles.
Radio Equipment Distributors, 312 W. Pico Blvd., Los Angeles 15.
Radio Parts Co., Inc., 1045 11th Ave., San Diego.
Radio Parts Sales, 5222 S. Vermont Ave., Los Angeles.
Radio Products Sales, Inc., 1501 S. Hill St., Los Angeles 15.
Radio Specialties Co., 1956 S. Figueroa St., Los Angeles 7.
Radio & Television Equipment, 709 Cherry Ave., Long Beach.
Radio & Television Equipment, 207 Oak St., Santa Ana.
Radio Television Supply Co., 341 W. 18th St., Los Angeles 18.
Ravenscroft, Inc., A. E., 2320 S. Hill St., Los Angeles.
Sacramento Electric Supply Co., 1219 S St., Sacramento.
San Francisco Radio & Supply Co., 1282-84 Market St., San Francisco.
Scott Radio Supply, 266 Alamos Ave., Long Beach 2.
Shanks & Wright, 2045 Kettner Blvd., San Diego 1.
Shelley Radio Co., 2008 Westwood Blvd., Los Angeles 25.
Smith & Crawford, 156 Ninth St., San Francisco 3.
Thompson & Holmes, Ltd., 650 Second St., San Francisco.
United Radio & Electronics Co., 1356 S. Flower St., Los Angeles.
Universal Radio Supply Co., 1729 So. Los Angeles St., Los Angeles.
Valley Electronic Supply Co., 1302 N. Magnolia Blvd., Burbank.
Valley Radio Supply, 716 Baker St., Station A, Bakersfield.
Weatherford Co., R. V., 6919 San Fernando Rd., Glendale 1.
Wenger Co., E. C., 1450 Harrison St., Oakland.
Western Electronic Supply Corp., 7007 Melrose Ave., Los Angeles 38.
Western Radio & Television Supply Co., 1415 India St., San Diego 1.
Western Theatrical Equipment Co., 337 Golden Gate Ave., San Francisco 2.

Wholesale Radio & Electric Supply Co., 140 Ninth St., San Francisco.
Yale Radio Electric, 6616 Sunset Blvd., Los Angeles.
Zach Radio Supply Co., 1426 Market St., San Francisco.

COLORADO

Henrie & Boltheff Co., 1635-17th St., P. O. Box 5110 Terminal Sta., Denver 17.
Interstate Radio & Supply Co., 1639 Tremont Place, Denver.
Niles Phonograph & Radio, 505-07 14th St., Denver.
Radio & Electronic Supply Co., 540 Ute Ave., Grand Junction.
Radio Products Supply Co., 1237 16th St., Denver 12.
Walker Radio Co., L. B., 218 W. Eighth St., Pueblo.

CONNECTICUT

Bond Radio Supply, The, 439 W. Main St., Waterbury 23.
Brown Co., Thomas H., 15-25 Whiting St., New Haven 10.
Congress Radio Co., 207 Congress Avenue, New Haven.
Hatry & Young, Inc., 1700 Main St., Bridgeport.
Hatry & Young, Inc., 203 Ann St., Hartford 3.
Hatry & Young, Inc., 77 Broadway, New Haven.
Hatry & Young, Inc., 525 Main St., Stamford.
Hatry & Young, Inc., 89 Cherry St., Waterbury.
Hatry & Young of New London, Inc., 428 Bank St., New London.
Moses Radio Electronics Co., 54 Flower St., Hartford 5.
Sceli & Co., R. G., 317 Asylum St., Hartford 3.
Stamford Radio Supplies, 562 Atlantic Ave., Stamford.
United Radio Supply, 47-53 E. Main St., New Britain.
Universal Radio Co., Inc., 61 E. Main St., New Britain.

DELAWARE

Radio Electric Service Co. of Pa., Inc., 4th & Tatnall Sts., Wilmington.
Wilmington Electrical Spec. Co., 405 Delaware Ave., Wilmington.

DISTRICT OF COLUMBIA

American Amplifier & Telev. Corp., 1111 19th St., N. W., Washington.
Capitol Radio Wholesalers, 2120 14th St., N. W., Washington.
Electronic Wholesalers, Inc., 2010 14th St., N. W., Washington 9.
Kenyon Radio Supply Co., 2214 14th St., N. W., Washington 9.
Rucker Radio Wholesalers, 1312 14th St., N. W., Washington.
Silberne Radio & Elec. Co., 3308-10 Eleventh St., N. W., Washington 10.
Southern Wholesalers, Inc., 707 Edgewood St., N. E., Washington 17.

FLORIDA

Cooper Radio Co., 648 Second Ave., S., St. Petersburg.
East Coast Radio & Television Co., 914 N. Miami Avenue, Miami.
Electric Supply Co., Inc., 106 S. Franklin St., Tampa 1.
Electronic Supply Co., 61 N. E. 9th St., Miami.
Flagler Radio Co., 1068 W. Flagler St., Miami.
Goddard Distributors, Inc., 1309 N. Dixie, W. Palm Beach.
Grice Radio & Electronic Supplies, 358 E. Wright St., Pensacola.
Gulf Electric & Hardware Co., 115 E. Gregory St., Pensacola.

Hammond-Morgan, Inc., 9 S. Terry St., Orlando.
 Herman Radio Supply Co., 1745 N. E. Second Ave., Miami 36.
 Kinkade Radio Supply Co., 1402-04 Laura Street, Jacksonville.
 Kinkade Radio Supply Co., 402 W. Fortune St., Tampa.
 Morley Radio Co., 944 Main St., Sarasota.
 Radio Accessories Co., 1054 S. Florida Ave., Lakeland.
 Radio Accessories Co., 62 E. Pine St., Orlando.
 Radio Parts Co., 712 Main St., Jacksonville.
 Sea Coast Appliance Dists., Inc., 36 NE 21st St., Miami.
 Southeast Audio Co., 112 W. Union St., Jacksonville.
 Southern Hardware & Bicycle Co., 2336 Liberty St., Jacksonville.
 Thurow Distributors, Inc., 15-17 E. Church St., Jacksonville.
 Thurow Distributors, Inc., 420 S. W. 8th Avenue, Miami.
 Thurow Distributors, Inc., 131 S. Court St., Orlando.
 Thurow Distributors, Inc., 213 E. Tennessee St., Tallahassee.
 Thurow Distributors, Inc., 134-136 S. Tampa St., Tampa.
 Thurow Distributors, Inc., Box 3002, West Palm Beach.
 Walder Radio & Appliance, 1809 N. E. Second Avenue, Miami 36.
 Welch Radio Supply, 408 Ninth St., S., St. Petersburg.

GEORGIA

Atlanta Phonograph Co., 27 Pryor St., NW, Atlanta.
 Concord Radio Corp., 265 Peachtree St., Atlanta 3.
 Economy Auto Stores, Inc., 1130 Bankhead Highway, PO Box 5078, Atlanta.
 Electronic Distributing Co., 754 Ponce de Leon Place, N. E., Atlanta 5.
 Garvin Electric Co., 69 Fourth St., N. W., Atlanta 5.
 Guy White Radio Co., 654 Mulberry St., Macon.
 Hatcher Co., A. S., 596-98 Third St., Macon.
 Prestwood Electronics Co., 708 Reynolds St., Augusta.
 Radio Sales & Service Co., 1326 First Ave., Columbus.
 Southeastern Radio Parts Co., 442 W. Peachtree St., Atlanta.
 Southeastern Radio Parts Co., Montgomery St., Savannah.
 Specialty Distributing Co., 104 Pine Ave Albany.
 Specialty Distributing Co., 425 Peachtree St., NE., Atlanta.
 Specialty Distributing Co., Inc., 539 Arch St., PO Box 815, Macon.
 Specialty Dist. Co., 233 E. Broughton St., Savannah.
 Yancey Co., Inc., 340 W. Peachtree St., NW., Atlanta 3.

IDAHO

Craddock's Radio Supply, 1522 State St., Boise.
 Korke Electronics Co., 119 Peasley St., Boise.

ILLINOIS

ALLIED RADIO CORP., 833 W. Jackson Blvd., Chicago 7. ADV. PG. 226.
 Alverson Sales Co., 208 E. Front St., Bloomington.
 Bowman & Co., J. G., 513 E. 75th Street, Chicago 19.
 Central Scientific Co., 1700 Irving Park Rd., Chicago.
 Chauncey's Inc., 4737 W. Chicago Avenue, Chicago 51.
 Chicago Apparatus Corp., 1735 N. Ashland Avenue, Chicago.
 Concord Radio, 901 Jackson Blvd. W., Chicago.
 Cooper Supply Co., 935 Main Street, Quincy.
 Fox Electric Supply Co., 67-69 N. State Street, Elgin.
 Gates Radio Co., 123 Hampshire, Quincy.
 Herberger Radio Supply, 136 First Avenue, Peoria 6.
 Hyland Electrical Supply Co., 700 W. Jackson Blvd., Chicago.
 Illinois Appliance Co., 407 W. First Street, Dixon.
 Klaus Radio & Electric Co., 707 Main Street, Peoria 2.
 Lampley Radio Supply, 802 N. McLeansboro St., Benton.
 Lofgren Distributing Co., 1202 4th Avenue, Moline.
 Loughane & Company, 804 N. Water Street, Decatur.
 Lukko Sales Corp., 5024 Irving Park Rd., Chicago.
 Lurtz Electric Co., 210 N. Illinois St., Belleville.
 Montgomery Ward & Co., W. Chicago Ave. & Larrabee St., Chicago.
 Newark Electric Co., Inc., 323 W. Madison Street, Chicago 6.
 Pilgrim Distributing Co., 910 W. Jackson Blvd., Chicago.
 Radio Parts Co., 612 W. Randolph St., Chicago 6.
 Radio Parts Outlet, Inc., 4305 Lincoln Avenue, Chicago 18.
 Radolek Co., 601 W. Randolph St., Chicago 6.
 Spiegel, Inc., 1061 W. 35th St., Chicago 9.
 Triangle Industries Corp., 600 W. Adams Street, Chicago.
 Tri-City Radio Supply, 1919 Fourth Avenue, Rock Island.
 WALKER-JIMIESON, INC., 311 S. Western Avenue, Chicago 12. ADV. PG. 274.
 Wilson Supply Co., 108 W. Jefferson Street, Springfield.
 York Radio Supply Corp., 801-805 N. Broadway, Decatur.

INDIANA

Archer & Evinger, 1348 Wabash Avenue, Terre Haute.
 Associated Distributors, Inc., 210-214 S. Meridian Street, Indianapolis 4.
 Bowman & Co., J. G., 103 Lafayette Street, Valparaiso.
 Commercial Sound & Radio Co., 528 E. Colfax Avenue, South Bend.
 Graham Co., Inc., Phillip E., 2606 W. Michigan Street, Indianapolis 22.
 Hub Alliance & Supply Company, 106 N. Main Street, Crown Point.
 Lafayette Radio Supply, Inc., 408 E. North Street, Lafayette.
 Meunier Radio Supply Company, 524 N. Illinois Street, Indianapolis.

Pembleton Laboratories, 919 Broadway, Fort Wayne 2.
 Radio Distributing Co., 1013 N. Capitol Avenue, Indianapolis.
 Radio Distributing Co., 432 S. Carroll Street, South Bend.
 Radio Electronic Supply Co., 1419 Cameron Street, Lafayette.
 Seybert's Radio Supply Co., 1331 Main Street, Anderson.
 Van Sickle Radio Supply Co., 34 W. Ohio Street, Indianapolis.
 Warren Radio Co., 720 S. Clinton, Fort Wayne.

IOWA

Boe Distributing Co., 498 N. Grandview Avenue, Dubuque.
 Duke's Radio Company, 209 Sixth Street, Sioux City.
 Farnsworth Radio & Television Co., 623 Jefferson, Waterloo.
 Gifford-Brown, Inc., 106 1st Street, SW, Cedar Rapids.
 Gifford-Brown, Inc., 1216 Grand Avenue, Des Moines 9.
 Iowa Radio Corporation, 1212 Grand Avenue, Des Moines 9.
 Ken-Elis Radio Supply Co., 810 N. 9th, Fort Dodge.
 Midwest-Timmermann Co., 114 Western Avenue, Davenport.
 Onthank Co., G. W., 10th and Mulberry, Des Moines.
 Radio Trade Supply Co., 1224 Grand Avenue, Des Moines 9.
 Radio Trade Supply Corp., 115 W. Second, Ottumwa.
 Ray-Mac Supply Co., 613 Water Street, Waterloo.
 RCA Victor Distributing Corp., 1235 W. 5th Street, Davenport.
 Siddles Co., 912 Locust Street, Des Moines.
 Sioux City Radio & Appliance Co., 210 W. 7th Street, Sioux City 16.
 Union Supply Co., 4th & Washington, Burlington.
 World Radio Laboratories, Inc., 740-744 W. Broadway, Council Bluffs.

KANSAS

Acme Radio Supply, 516 Quincy Street, Topeka.
 Amateur Radio Equipment Co., Inc., 1215 E. Douglas Street, Wichita.
 Costelow Co., Inc., John A., 125 Kansas Avenue, Topeka.
 Excel Distributors, 118 W. 2nd Street, Wichita 2.
 Four-State Radio & Supply Co., 227 Santa Fe, Salina.
 Interstate Distributors Inc., 1236 E. Douglas, Wichita 7.
 Overton Electric Co., Inc. 522 Jackson Street, Topeka.
 Pittsburg Radio Supply Co., 212 S. Broadway, Pittsburg.
 Radio Supply Co., 1125-27 E. Douglas, Wichita.
 RCA Victor Distributing Corp., 351 N. Water, Wichita.
 Western Distributors, 227 N. Santa Fe, Salina.

KENTUCKY

Burks & Co., P. I., 911 W. Broadway, Louisville 3.
 Central Electronic Supply Co., Inc., 203 W. 4th Street, Owensboro.
 Ewald Distributing Co., 309 S. 9th Street, Louisville 3.
 Miller, Barney, 239 E. Main Street, Lexington.
 Peerless Electronic Equipment Co., 912-914 S. 2nd Street, Louisville 3.
 Radio Equipment Co., 480 Skain Avenue, Lexington 34.
 Universal Radio Supply Co., 715 S. 7th Street, Louisville 3.
 West Kentucky Electronic Supply Co., 1205 Broadway, Paducah.

MAINE

Cressey & Allen, 35 Commercial Street, Portland 6.
 Maine Electronic Supply Corp., 13 Deer Street, Portland.
 Radio Service Laboratory, 76 Exchange Street, Bangor.
 Radio Service Laboratory, 45A Free Street, Portland 3.
 Radio Supply Co., Inc., 28 Cross Street, Auburn.

MARYLAND

D & H Distributing Co., 25 S. Liberty Street, Baltimore.
 Kann-Ellert Electronics Inc., 9 South Howard Street, Baltimore 1.
 Radio Electric Service Co., 3 N. Howard St., Baltimore 1.
 Rucker Radio Wholesalers, 8049 13th St., Silver Spring.
 Wholesale Radio Parts Co., Inc., 311 W. Baltimore St., Baltimore 1.
 Zimmerman Wholesalers, 32 Bedford St., Cumberland.
 Zimmerman Wholesalers, 114 E. Washington St., Hagerstown.

LOUISIANA

Allen Supply Co., Wm B., 916-18 N. Claiborne Ave., New Orleans 16.
 Autiotronics Supply Co., 2100 Benefit St., New Orleans 22.
 Bell Radio Supply Co., 826 N. Broad St., New Orleans.
 Central Radio Supply, 113 DeSoto St., Alexandria 1.
 Columbia Radio & Supply Co., 3940 3rd St., New Orleans 13.
 Crescent Radio & Supply Co., 1428 Baronne St., New Orleans.
 Electrical Supply Co., 201 Magazine St., New Orleans.
 Electronic Supply Co., 1753 N. 21st St., Baton Rouge.
 Hale & McNeil, Cor. N. 3rd & Pine Sts., Monroe.
 Koelmey Sales Co., 220 Crockett St., Shreveport.
 Lynch & Co., Inc., S. H., 832 Baronne St., New Orleans.
 Ole Miss Supply, 901 Carondelet St., New Orleans.
 Radio Electronic Supply, 1419-21 Cameron St., Lafayette.
 Radio Parts, Inc., 807 Howard St., New Orleans.
 Schneider & Sons, Inc., F. H., 215 Lake St., Lake Providence.

Shuler Supply Co., 415 Dryades St., New Orleans.
 Southern Radio Supply, 407 S. Roman St., New Orleans 19.
 Walther Bros. Co., Inc., 714 Howard Ave., New Orleans-19.

MASSACHUSETTS

Beckman & Co., C. E., 11-35 Commercial St., New Bedford.
 Burke Co., J. H., 37-39 Brighton Ave., Boston.
 Cushing, T. F., 349 Worthington St., Springfield 3.
 Dean & Co., David B., 85 Cohannet St., Taunton.
 DeMambo Radio Supply Co., 1111 Commonwealth Ave., Boston 15.
 DeMambo Radio Supply, Inc., 729 Main St., Worcester.
 Eastern Co., 620 Memorial Dr., Cambridge.
 Electrical Supply Corp., 1739 Massachusetts Ave., Cambridge 40.
 Flint Radio Co., 73 Troy St., Fall River.
 Gerber Radio Supply Co., 1900 Columbus Ave., Roxbury 19.
 Hatry & Young of Mass., Inc., 42-44 Cornhill St., Boston.
 Hatry & Young of Mass., 639 Essex St., Lawrence.
 Hatry & Young of Springfield, 169 Spring St., Springfield.
 Herman Co., Louis M., 885 Boylston St., Boston.
 Mayer Co., A. W., 895 Boylston St., Boston 15.
 Melrose Sales Co., 407 Franklin St., Melrose 77.
 Pittsfield Radio Co., 44 West St., Pittsfield.
 Radio Electronic Sales Co., 46 Chandler St., Worcester 2.
 Radio Maintenance Supply Co., 19-25 Central St., Worcester.
 RADIO SHACK CORP., 167 Washington St., Boston. ADV. PG. 39.
 Radio Wire Television, Inc., 110 Federal St., Boston.
 Sager Electrical Supply Co., 201 Congress St., Boston.
 Springfield Radio Co., Inc., 405 Dwight St., Springfield.
 Springfield Sound Co., 147 Dwight St., Springfield.
 Tarbell Watters Co., West St. & Clapp Ave., Pittsfield.
 Tarbell Watters Co., 144 Chestnut St., Springfield.
 Ware Radio Supply Co., 913 Centre St., Brockton 11.
 Willett Radio Supply Inc., 11 Court St., Natick.

MICHIGAN

Duffy & Co., M. N., 2040 Grand River Ave., Detroit 26.
 Earle Appliance Dists. Inc., 814 First Ave., North Escanaba.
 Electric Products Sales Co., 427 E. Michigan Ave., Lansing 29.
 Electronic Supply Corp., 187 W. Michigan Ave., Battle Creek.
 Electronic Supply Corp., 248 E. Pike St., Pontiac.
 Ferguson Radio Supply Co., 622 W. Baltimore, Detroit 2.
 Fitzpatrick Electric Supply Co., Inc., 444 Irwin St., Muskegon.
 Fulton Radio Supply Co., 265 W. Cortland St., Jackson.
 General Motors Corp., United Motors Service Div., 3044 W. Grand Ave., Detroit.
 Industrial Electric Supply Co., 1839 Peck St., Muskegon.
 K-L-A Laboratories, Inc., 7422 Woodward Ave., Detroit 2.
 Lifsey Distributing Co., 726-30 N. Saginaw, Flint 3.
 Morley Brothers, 5943 Second Ave., Detroit 2.
 Morley Brothers, 25 Ottawa Ave., W. Grand Rapids.
 Morley Brothers, 115-129 N. Washington Ave., Saginaw.
 Northwest Radio of Michigan, 435 Tamarack St., Laurium.
 Orem Distributing Co., 801 E. Genesee, Saginaw 11.
 Radio Electronic Supply Co., 1112 W. Warren, Detroit 1.
 Radio Electronic Supply Co., 443 Division Ave., S., Grand Rapids 3.
 Radio Parts Co., Water & Millard Sts., Saginaw.
 Radio Specialties, 456 Charlotte St., Detroit 1.
 Radio Supply & Engineering Co., Inc., 85 Selden Ave., Detroit 1.
 Radio Tube Merchandising Co., 508 Clifford St., Flint 3.
 Ralston Co., Ralph M., 201 N. Park St., S., Kalamazoo.
 RCA Victor Distributing Corp., 7400 Intervale Ave., Detroit.
 Shand Radio Specialties, 203 W. Kearsley, Flint 3.
 Straits Distributors, Inc., 200 S. Main St., Sheboygan.
 Wedemeyer Electronic Supply Co., 213-217 N. Fourth Ave., Ann Arbor.
 Wedemeyer Electronic Supply Co., 2005 E. Michigan Ave., Lansing.
 West Side Radio Supply, 6724 Michigan Ave., Detroit 10.
 Wholesale Radio Co., 317 S. Division St., Grand Rapids.

MINNESOTA

Bauman Co., 711 W. Lake St., Minneapolis 8.
 Bonn Co., Lew, 228 E. Superior St., Duluth.
 Bonn Co., Lew, 1211 LaSalle Ave., Minneapolis 4.
 Bonn Co., Lew, 141-147 W. 7th St., St. Paul 2.
 Electronic Distributing Co., 1937 University Ave., St. Paul 4.
 Hall Electric Co., 386 Minnesota St., St. Paul 1.
 Hayer Co., E. C., 300 Washington Ave., N., Minneapolis.
 Northwest Radio, 109 E. First St., Duluth 2.
 Northwest Radio & Electronic Supply Co., 52 S. 12th St., Minneapolis 4.
 Northwest Radio & Electronic Supply Co., 194 W. 4th St., St. Paul 2.
 Radio Electric Supply Co., 2451 Nicollet Ave., Minneapolis.
 Radio Maintenance Co., 3016 1/2 27th St., S., Minneapolis 6.

S. M. Supply Co., 321 First Ave., SW, Rochester.
Stark Radio Supply Co., 71 S. 12th St., Minneapolis 4.

MISSISSIPPI

Cabell Electric Co., 422-24 S. Farish St., Jackson 110.
Goyer Supply Co. (Home Appliance Div.), 805 Alexander, Greenville.
Industrial Suppliers, Inc., Radio Div., Highway 80, Jackson.
Radio Supply Co., 909 24th Ave., Meridian.
Ryan Supply Co., 508-514 E. Pascagoula St., Jackson.
Ryan Supply Co., 814 21st, NE, Meridan.
Southern Distributors, Inc., 330 W. Capitol St., Jackson.
Swann Distributing Co., Inc., 717 W. Monument Jackson.

MISSOURI

Acme Radio Supply, 110 N. 9th St., St. Joseph.
Ashe Radio Co., Walter, 1125 Pine St., St. Louis.
Brotherson, M., 515 N. Byers St., Joplin.
Brown Radio Co., Tom, 3924 Washington Ave., St. Louis.
Burstein-Applebee, 1012 McGee St., Kansas City.
Central Missouri Distributing Co., 409 W. McCarty St., Jefferson City.
Ebinger Radio & Supply Co., 2211 Gravois Ave., St. Louis 4.
Four State Radio & Supply Co., 201 Main, Joplin.
Gordon, Co., J. C., 1118 Pine St., St. Louis 9.
Henry Radio Co., 211-215 N. Main St., Butler.
Henshaw Radio Supply, 3619 Troost Ave., Kansas City.
Hollander & Co., Inc., 3900 W. Pine St., St. Louis.
Interstate Supply Co., 10th & Walnut Sts., St. Louis.
Manhattan Radio & Equipment, Inc., 2008 Grand Ave., Kansas City 8.
McGee Radio Co., 1225 McGee St., Kansas City.
Potter Radio Co., 1312 McGee St., Kansas City 6.
Radiolab, 1612 Grand Ave., Kansas City 8.
Radonics, 5040 Easton Ave., St. Louis.
Radonics, 2218 S. Jefferson St., St. Louis.
RCA Victor Distributing Corp., 2113-2115 Broadway, Kansas City.
Reed Radio & Supply, Harry, 805-809 Boonville St., Springfield.
St. Joseph Radio & Supply Co., 922-24 Francis St., St. Joseph.
Suedekum Electronic Supply Co., 902 S. Sprigg St., P. O. Box 221, Cape Girardeau.
Tri-State Radio & Supply Co., 136 Bartlet St., Poplar Bluff.
Van Sickle Radio Co., 1113 Pine St., St. Louis 1.

MONTANA

Electronic Supply Co., 214 Eleventh St., Billings.
Lindgren Co., Geo., 109 Central Ave., Great Falls.
Northwestern Auto Supply Co., 420 N. Broadway, Billings.
Smitty's Electronics, 126 W. Broadway, Butte.
Valley Motor Supply Co., 512-514 First Ave., S., Great Falls.

NEBRASKA

Hicks Radio Co., 1422 "O" St., Lincoln 8.
J. B. Distributing Co., 2855-57 Farnam St., Omaha 2.
Joachim Radio Supply, 1913 Broadway, Scottsbluff.
Leuck Radio Supply Co., 243 S. 11th St., Lincoln.
Noll Co., H. C., 2226 Harney St., Omaha.
Omaha Appliance Co., 17 St. Mary's St., Omaha.
Radio Equipment Co., 2820-22 Farnam St., Omaha.
Sidles Co., 508 S. 19th St., Omaha.

NEVADA

Metcalf's Radio Supply, 207 N. Third St., Las Vegas.

NEW HAMPSHIRE

American Radio Corp., 510 Central Ave., Dover.
DeMambo Radio Supply Inc., 1308 Elm St., Manchester.
Evans Radio, 10 Hills Ave., Concord.
Radio Service Laboratory, 1191 Elm St., Manchester.

NEW JERSEY

Allen & Hurley, 25 S. Warren St., Trenton 10.
All State Distributors, 30 Warren Place, Newark.
Apollo Distributing Co., 15 Shipment St., Newark 2.
Continental Sales Co., 195-201 Central Ave., Newark.
Dale-New Jersey, Inc., 79 Lock St., Newark.
General Radio Co., 207 N. Broadway, Camden.
Joe's Radio Shop, 67-69 S. Pearl St., Bridgeton.
Kearns, Inc., Harrisburg & Atlantic Aves., Atlantic City.
Krich-Radisco, Inc., 422-432 Elizabeth Ave., Newark 8.
Lippman & Co., Aaron, 246 Central Ave., Newark 4.
M & H Sporting Goods Co., 1832 Atlantic Ave., Atlantic City.
Nidisco-Jersey City, Inc., 713 Newark Ave., Jersey City 6.
Nidisco Passaic, Inc., 294 Passaic, Passaic.
Nidisco-Trenton, Inc., 126 S. Warren St., Trenton.
O'Loughlin & Co., Inc., T. A., 90 Washington St., Newark.
Radio Electric Service Co. of Pa., Inc., 406 Albany Ave., N. Atlantic City.
Radio Elect. Serv. Co. of Pa., 513-515 Cooper St., Camden.
Radio Wire Telev. Inc., 24 Central Ave., Newark.
Teldiso, Inc., 444 William St., E. Orange.
Williams Co., Carl B., 154 S. Main St., Phillipsburg.

NEW MEXICO

Walker Radio Co., Inc., 114 W. Granite, P. O. Box 921, Albuquerque.

NEW YORK

Adirondack Radio Supply, 32 Guy Park Avenue, Amsterdam.
Araze Electronic Distributors, 25-27 Henry St., Kingston.
ARROW ELECTRONICS, INC., 82 Cortlandt St., New York 1. ADV. PG. 230.
Barclay-New York, Inc., 139 Cedar St., New York.
Barker Roses' Kimball, Inc., 511 Baldwin St., Elmira.
Beacon Electronics, Inc., 14 Catherine St., Utica.
Beacon Electronic Distb., 108 Lincoln Bldg., Watertown.
Benray Distributing Co., 506 Coney Island Ave., Brooklyn.
Berndt, W. E., 653-55 S. Warren St., Syracuse.
Bickford Bros. Co., 1209 Broadway, Buffalo.
Bickford Bros. Co., 208 St. Paul St., Rochester 4.
Braham Electrical Supply Co., John, 304 W. 55th St., New York.
Bruijac Electronic Corp., 103 Lafayette St., New York.
Bruno-New York, Inc., 460 W. 34th St., New York 1.
Certified Radio Supply, 45 Cottage St., Middletown.
Chanrose Radio Stores, Inc., 170-16 Jamaica Ave., Jamaica 3.
Chief Electronics, 104 Main St., Poughkeepsie.
Dale Distributing Co., Inc., 40 E. 32nd St., New York.
Dalis, Inc., H. L., 175 Varick St., New York 14.
Dare's Radio Service, 22 E. Genesee St., Auburn.
Davis Electronics Corp., 204 Main St., Hempstead.
Davis Radio Distributing Co., 66 E. 3rd St., Mt. Vernon.
Dymac, Inc., 2329 Main St., Buffalo 14.
Electric City Radio Supply, 1626 Union St., Schenectady.
Electronic Laboratories & Supply Co., 915 Lincoln Ave., Utica 4.
Electro-Tech Equipment Co., Inc., 117 Lafayette St., New York 13.
Electronic Equipment Co., 2912 Atlantic Ave., Brooklyn.
Federal Radio Supply Co., 188 State St., Binghamton.
FEDERATED PURCHASER, INC., 66 Dey St., New York 4. ADV. PG. 273.
Fischer Distributing Co., Inc., 118 Duane St., New York 7.
Fordham Radio Supply, 2269 Jerome St., New York 53.
Fort Orange Radio Distributing Co., 642-44 Broadway, Albany.
Fulton County Distr. Co., 14 Bleeker St., Gloversville.
Genesee Radio & Parts Co., 205 Genesee St., Buffalo 3.
Gershoff Elect. Sup. Corp., 220 W. 83rd St., New York.
Gofer Elect. Sup. Corp., 225 S. Broadway, Yonkers.
Graybar Electric Co., 420 Lexington Ave., New York.
General Offices—branches in 105 principal cities.
Green Radio Distributors, 482 Sutter Ave., Brooklyn 7.
Harrison, Fred C., 108 W. Church St., Elmira.
HARRISON RADIO CORP., 172-31 Hillside Ave., Jamaica, L. I. ADV. PG. 265.
Harrison Radio Co., 12 W. Broadway, New York 7.
HARVEY RADIO CO., 103 W. 43rd St., New York 18. ADV. PG. 104.
Hornbeam Distributing Co., 67-15 Fresh Pond Rd., Brooklyn.
Hornbeam Distributing Co., 1630 Bedford Ave., Brooklyn.
Hornbeam Distributing Co., 4117 Ft. Hamilton Pkwy., Brooklyn 19.
Hornbeam Distributing Co., 61-01 16th Ave., Brooklyn.
Island Radio Distributors, 412 Fulton Ave., Hempstead, L. I.
Johnson Radio & Elect. Equip. Co., 45 Harrison St., Jamestown.
L. & S Radio Sales Co., 132-134 North St., Middletown.
LEGRI-S-CO., INC., 130 W. 102nd St., New York 25. ADV. PG. 182.
Leonard Radio, Inc., 69 Cortlandt St., New York 7.
Mainline Radio Parts, 192-196 Clinton Ave., Rochester 4.
MILO RADIO & ELECTRONICS CORP., 200 Greenwich St., New York. ADV. PG. 150.
Morris Distributing Co., Inc., 195 Water St., Binghamton.
Morris Distributing Co., 412 S. Clinton St., Syracuse.
National Radio Distributors, 899 Southern Blvd., New York 59.
National Radio Parts Dist. Co., 611 New York Ave., Brooklyn 3.
NEWARK ELECTRIC CO., INC., 242 W. 55th St., New York. ADV. PG. 201.
Niagara Radio & Parts Co., 1518 Main St., Niagara Falls.
Norman Radio Distributors, Inc., 94-29 Merrick Rd., Jamaica 5.
O & W Radio Co., 141 Cedar St., New York.
Peerless Electronic Distributors Corp., 76 Willoughby St., Brooklyn.
Peerless Radio Distributors, Inc., 92-32 Merrick Rd., Jamaica, L. I.
Powell Radio Supply, 142 W. 169th St., New York 52.
R. T. A. Distributors, Inc., 36 Broadway Menands, Albany 7.
Radio Equipment Corp., Inc., 145-151 Genesee St., Buffalo 3.
Radio Wire Television, Inc., 542 E. Fordham Rd., Bronx.
Radio Wire Television, Inc., 100 Sixth Ave., New York 13.
Radionic Equipment Co., 170 Nassau St., New York.
Ray Distributing Co., 188 Glen St., Glens Falls.
Roberts & O'Brien, 714-716 Park Ave., Syracuse 4.
Rochester Radio Supply Co., 114 St. Paul St., Rochester 4.
Sanford Electronics Corp., 157 Chambers St., New York.
Slate & Co., 2755 Webster Ave., New York 58.
Smith, Inc., Stewart, 325 E. Water St., Syracuse.
Stallman of Ithaca, 123-131 S. Tioga St., Ithaca.
Stan-Burn Radio & Electronics Co., 558 Coney Island Ave., Brooklyn 18.
Stan-Burn Radio & Electronics Co., 1697 Broadway, New York 19.
Standard Electronics Co., 1497 Main St., Buffalo 8.
Standard Parts Corp., 235 Main St., Hempstead, L. I.
SUN RADIO & ELECTRONICS CO., INC., 122-124 Duane St., New York 7. ADV. PG. 61.

Sylvan-Wellington Co., 269 Canal St., New York 13.
Taylor, Co., E. E., 465 Central Ave., Albany 5.
TERMINAL RADIO CORP., 85 Cortlandt St., New York City. ADV. PG. 240.
Trojan Radio Co., Inc., 426 River St., Troy.
United Radio & Electric Co., 47 W. 63rd St., New York 23.
Vaeth Electric Co., 35 Genesee St., Utica.
Vermont Hardware Co., Inc., 40 E. Main St., Malone.
Westchester Electronic Supply Co., 420 Mamaroneck Ave., White Plains.
Wilco Radio Distributors, 383 E. 138th St., New York.

NORTH CAROLINA

Carolina Radio Equipment Co., Inc., 105-107 E. Martin St., Raleigh.
Dalton-Hege Radio Supply Co., 340 Brookstown Ave., Winston-Salem.
Dixie Radio Supply Co., 912-914 S. Tryon St., Charlotte.
Dixie Radio Supply Co., 623 S. Church St., Charlotte.
Freck Radio & Supply Co., Inc., 38 Biltmore Ave., Asheville.
Glasgow Supply Co., 224 S. Cedar St., P. O. Box 1997, Charlotte 1.
Johannsen Electric Co., Inc., 312-314 N. Eugene St., Greensboro.
Lambeth Electric Supply Co., 100 Burke St., Winston-Salem.
Long's Distributing Co., 68 N. Market St., Asheville.
Noland Co., Inc., 636 W. Fourth St., Winston-Salem.
Radiotronic Distributors Inc., 208 N. College St., Charlotte.
Signal Radio Supply, Goldsboro.
Southeastern Radio Supply Co., 416 Market St., Greensboro.
Southeastern Radio Supply Co., 411-15 Hillsboro St., Raleigh.
Southern Radio Corp., 1625 W. Morehead St., P. O. Box 2356, Charlotte 1.

NORTH DAKOTA

Bristol Distributing Co., 2121 Front St., Fargo.
Dakota Electric Supply Co., 1017-23 Fourth Ave., N., Fargo.
Hayer Co., F. C., 814 First Ave., North P. O. Box 1657, Fargo.
McFall Radio Co., 5B N. Main St., Box 1055, Minot.
Quannrud, Brink & Riebold, 122 First St., Bismarck.
Radio Equipment Co., 624 Second Ave., N., Fargo.

OHIO

Armstrong Radio Supply, 216 Second St., SE, Canton 2.
Burroughs Radio Co., 711 Second St., NW, Canton 3.
Chambers Electronic Supply Co., Inc., 1667-71 Central Parkway, Cincinnati.
D & R Radio Supply Co., Inc., 156 S. 3rd St., Steubenville.
Eberle's Radio Supply, 522 W. Main St., Springfield.
El-A-Co., 121 Lodi St., Elyria.
Electronic Supply Corp., 219 N. 4th St., Columbus 15.
Goldhamer, Inc., 2239 E. 14th St., Cleveland.
Hambur Brothers, 320 E. Federal St., Youngstown.
Herrlinger Distributing Co., 1436 Vine St., Cincinnati 10.
Howard's Electronic Supply, 135 17th St., Toledo 2.
Hughes-Peters, Inc., 1128 Sycamore St., Cincinnati.
Hughes-Peters, Inc., 111 E. Long St., Columbus 15.
Hughes-Peters, Inc., 300 W. 5th St., Dayton.
Hutch & Son, 125 S. Elizabeth St., Lima.
Jantzen Radio, Warren.
Lima Radio Parts Co., 641-43 N. Main St., Lima.
Main Line Cleveland, Inc., 5005 Euclid Ave., Cleveland 3.
Mainline Distributors, Inc., 374-384 S. Erie St., Toledo 2.
Martin Co., M. H., 50 Charles Ave., SE, Massillon.
Morrison's Radio Supply, 331 Center St., Ashtabula.
Northern Ohio Laboratories, 2073 W. 85th St., Cleveland.
Northwestern Radio Co., 116 W. Spring St., Lima.
Ohio Appliances, Inc., Daylight Bldg., E. Court & 6th St., Cincinnati.
Ohio Appliances, Inc., 430 Leo St., Dayton 4.
Oliver Theatre Supply Co., Inc., 1701 E. 23rd St., Cleveland.
Olson Radio Warehouse, Inc., 73 E. Mill St., Akron 8.
Olson Radio Warehouse, 2020 Euclid Ave., Cleveland.
Pioneer Radio Supply Co., 2115 Prospect Ave., Cleveland 15.
Progress Radio Supply Co., 413-415 Huron Rd., Cleveland.
Radio & Electronics Parts Corp., 3235 Prospect Ave., Cleveland 15.
Radio Parts Co., 309-11 W. Commerce St., Youngstown.
Radio & Refrigeration Supply Co., 1220 Jackson St., Cincinnati.
Ross Radio Co., 325 W. Federal St., Youngstown 3.
Schuster Electric Co., The, 321 Sycamore St., Cincinnati.
Sreppo, Inc., 135 E. 2nd St., Dayton 2.
Steinberg's Inc., 633 Walnut St., Cincinnati 2.
Stotts Friedman Co., 620-22 S. Main St., Dayton 2.
Sun Radio Co., The, 110 E. Market St., Akron 8.
Thompson Radio Supplies, 218 E. Gay St., Columbus 15.
Thompson Radio Supplies, 135 S. 6th St., Zanesville.
Toledo Radio Specialties, 1215 Jackson St., Toledo 2.
United Radio, Inc., 1314 Vine St., Cincinnati.
Warren Radio Co., 479 S. Main St., Akron.
Warren Radio Co., 222 S. Elizabeth, Lima.
Warren Radio Co., 1320 Madison St., Toledo 2.
Whitehead Radio Co., 124 E. Long St., Columbus 5.
Winteradio, Inc., 1468 W. 25th St., Cleveland 13.

OKLAHOMA

Electronic Supply Co., 212 NW Tenth St., Oklahoma City 3.
Miller Co., Jackson, 111-119 E. California, Oklahoma City.

Patterson Radio Supply Co., 211 E. 13th St., Tulsa.
Radio, Inc., 1000 S. Main St., Tulsa 3.
Radio Supply Inc., 724 N. Hudson St., Oklahoma City.
S & S Radio Supply, 721 S. Detroit, Tulsa.

OREGON

Appliance Wholesalers, 600 NW 14th St., Portland 9.
Bargelt Supply, 1131-35 SW Washington St., Portland 5.
Carlson, Hatton & Hay, Inc., 96 E. Tenth Ave., Eugene.
Central Distributors, 1131-33 S. W. Washington, Portland 5.
Cressey & Allen, 35 Commercial St., Portland 6.
Harper-Meggee, Inc., 1506 NW Irving, Portland.
Johnson Co., Lou, 422 NW Eighth Ave., Portland.
Northwest Radio Supply Co., Inc., 717 SW Akeny St., Portland.
Portland Radio Supply Co., 1300 W. Burnside, Portland 9.
Radio Electronics Co., 9th & Commercial, Astoria.
Stubbs Electric Co., 33 NW Park Ave., Portland 9.
Tracey & Co., Inc., 937 NW Gilsan, Portland 9.
United Radio Supply Inc., 179 W. 8th St., Eugene.
United Radio Supply, Inc., 22 NW 9th Ave., Portland 9.
Walker Co., Verl G., 305 W. Jackson, Medford.

PENNSYLVANIA

A. C. Radio Supply Co., 1539 W. Passyunk Ave., Philadelphia 45.
A. G. Radio Parts Co., 3515 N. 17th St., Philadelphia 40.
A. G. Radio Parts Co., 628 Schuykill Ave., Reading.
Allied Electric Appliance Parts Inc., 3640 Elder St., Philadelphia 40.
Almo Radio Co., 509 E. Arch St., Philadelphia.
B & R Electric Co., St. Mary's.
Baker Radio Electric, 111 Johns St., Johnstown.
Barbey Co., Geo. D., 29 E. Vine St., Lancaster.
Barbey Co., Geo. D., 111 N. Washington St., Pottstown.
Barbey Co., Geo. D., 2nd & Penn Sts., Reading.
Barnett Bros. Radio Co., 146 N. 7th St., Philadelphia.
Buss Radio Electric Supply, 61-63 E. Broad St., Bethlehem.
Cambria Equipment Co., 12 Iron St., Johnstown.
Cameradio Co., 963 Liberty Ave., Pittsburgh 22.
Capitol Records Inc., Scranton.
Consolidated Radio Co., 612 Arch St., Philadelphia 6.
D & H Distributing Co., 311 S. Cameron St., Harrisburg.
D & H Distributing Co., 251 S. Main St., Wilkes-Barre.
Duncombe Co., J. V., 1011 W. 8th St., Erie.
Emerson Radio of Pa., Inc., 223-225 N. Broad St., Philadelphia 7.
FEDERATED PURCHASER, INC., 115 Hamilton St., Allentown. ADV. PG. 273.
Fisher Scientific Co., 711-723 Forbes St., Pittsburgh 19.
General Radio & Electronics, 287 S. Main St., Wilkes-Barre.
Graybar Electric Co., 910 Cherry St., Philadelphia.
Hamburg Bros., 305 Penn Ave., Pittsburgh 22.
Herback & Rademan, Inc., 522 Market St., Philadelphia 6.
Hollenback's Radio Supply, 2221 Eighth Ave., Altoona.
J. R. S. Distributors, 646 W. Market St., York.
Jordan Electronic Co., 1130 German St., Erie.
Kennedy's Radio Supply, 1500 Seventh Ave., Altoona.
Lazar Radio Co., Nat., 4241 Lancaster Ave., Philadelphia 4.
Luckenback & Johnson, Inc., 1034 Chestnut St., Allentown.
M & H Sporting Goods Co., 512 Market St., Philadelphia 6.
Mansfield Co., M. V., 937 Liberty Ave., Pittsburgh.
Marshall Co., John, 201 Anderson St., Pittsburgh.
Moyer Electronic Supply Co., Inc., 330 E. Norwegian St., Pottsville.
Penn Electronics Parts Co., 5303 Frankford Ave., Philadelphia.
Pursell, Fred P., 548-550 Wyoming Ave., Scranton 3.
Radio Distributing Co., 140 S. Second St., Harrisburg.
Radio Electric Serv. Co. of Pa., Inc., 1042 Hamilton St., Allentown.
Radio Electric Service Co. of Pa., Inc., 916 Northampton St., Easton.
Radio Electric Service Co. of Pa., Inc., 3412 Germantown Ave., Philadelphia.
Radio Electric Service Co. of Pa., Inc., 5930 Market St., Philadelphia 43.
Radio Electric Service Co. of Pa., Inc., NW Cor. 7th & Arch Sts., Philadelphia.
Radio Parts Co., 929 Liberty Ave., Pittsburgh.
Radio Parts Co., 47 N. Gallatin Ave., Uniontown.
Radio Service Co., 346 S. Main St., Wilkes-Barre.
Rosen & Co., Raymond, 32nd & Walnut Sts., Philadelphia.
Runsey Electric Co., 1007 Arch St., Philadelphia.
Scranton Radio & Television Supply Co., 519-521 Mulberry St., Scranton 2.
Scott Co., Charles B., 119 Franklin Ave., Scranton.
Steinberg & Co., Albert, 2520 N. Broad St., Philadelphia 32.
Superior Distributing Co., 5124 Liberty Ave., Pittsburgh 24.
Test Equipment Sales Co., Inc., 1505 Race St., Philadelphia.
Tydings Co., 632 Grant St., Pittsburgh 19.
Warren Radio, Inc., 1125 State St., Erie.
Wile, R. H., 218 S. 11th St., Philadelphia 7.
Williamsport Radio Supply, 518 W. Third St., Williamsport 28.
York Radio & Refrigeration Parts, 265 W. Market St., York.
Young Bros. Electronics Inc., 1909-15 Peach St., Erie.
Zimmerman Wholesalers, 55 Morgantown St., Uniontown.

RHODE ISLAND

Dandreta Co., Wm., 129 Regent St., Providence.
DeMambro Radio Supply, Inc., 90 Broadway, Providence.
Eddy & Co., Inc., 43 Hospital St., Providence.
Edwards Co., W. H., 94 Broadway Providence 3.

SOUTH CAROLINA

Carolina Radio Supply Co., Inc., 227 W. Washington St., Greenville.
Dixie Radio Supply Co., 1715 Main St., Columbia.
Dixie Radio Supply Co., 22 Richardson St., Greenville.
Noland Co., Inc., 162 Morgan Ave., Spartanburg.
Radio Laboratories, 215 King St., Charleston.

SOUTH DAKOTA

Burghardt Radio Supply, 124 First Ave., NW, Watertown.
Power City Radio Co., 209 S. First Ave., Sioux Falls.
Warren Radio Supply, 115 S. Indiana Ave., Sioux Falls.

TENNESSEE

Bluff City Distributing Co., Inc., 905-7 Union St., Memphis 3.
Bomar Appliance Co., Inc., 520 Western Ave., Knoxville.
Boyd Electronic Supply, 1153 Union Ave., Memphis.
Braid Electric Co., 109 Eleventh Ave., South, Nashville.
Chemcity Radio & Electric Co., 12 Emory Park, Knoxville 17.
Curle Radio Supply, 825 Cherry St., Chattanooga.
Electra Distributing Co., 1914 West End Ave., Nashville 4.
Keith-Simmons Co., Inc., Cummins Station, Nashville.
Lavender Radio Supply Co., Inc., 1012 Union Ave., Memphis.
Lynch & Co., Inc., S. H., 1049 Union, Memphis.
McClung & Co., Inc., C. W., 501 W. Jackson St., Knoxville 7.
McGregor's Inc., 1071 Union Ave., Memphis 3.
Mills-Morris Co., 171-175 S. Dudley St., Memphis 1.
Radio & Appliance Corp., 4 Cummins Station, Nashville 3.
Radio & Appliance Dist., Inc., Corner Main & Broad Sts., Chattanooga.
Radio Electric Supply Co., 210 Cherokee St., Kingsport.
Randolph & Cole Inc., 1516 Church St., Nashville.
Roden Electrical Supply Co., 808 N. Central Ave., Knoxville.
Rush Co., L. K., 206 E. Baltimore St., Jackson.
Specialty Distributing Co., Inc., 709 Chestnut St., Chattanooga.
W & W Distributing Co., 677 Madison Ave., Memphis.

TEXAS

Adieta Co., 1914 Cedar Springs at Akard, Dallas.
All-State Distributing Co., 2407 Ross Ave., Dallas 1.
Amateur Headquarters & Supply Co., PO Box 5086, Beacon Hill Sta., San Antonio.
Automatic Sales Co., 325 M & M Bldg., Houston 2.
Beyer & Co., A. R., 1318 Polk Ave., Houston 2.
Busacker Electronic Equip. Co., 1721 Waugh Drive, Houston.
Clark & Gose Radio Supply, 1204-B Ohio Ave., Wichita Falls.
Crabtree's Wholesale Radio, 2608 Ross Ave., Dallas 1.
Dallas Electric Supply Co., 1800 Magnolia St., Dallas 2.
Denison Radio Supply, 310 W. Woodward, Denison.
Electronic Equipment Co., 301 E. 5th St., Fort Worth.
Electronic Equipment & Engineering Co., 12th & Madison Sts., Brownsville.
Electronic Equipment & Eng. Co., 1310 S. Staples St., Corpus Christi.
Fort Worth Radio Supply Co., 1201 Commerce St., Fort Worth.
Geophysical Supply Co., PO Box 2214, Houston 1.
Hall, Inc., R. C. & L. F., 1306 Clay Ave., Houston.
Hargis Co., Box 716, Austin.
Hargis Co., Inc., 1305 Austin Ave., Waco.
Harrison Equipment Co., 1422 San Jacinto, Houston.
Houston Radio Supply Co., Inc., Clay at La Branch, Houston.
Lavender Radio Supply Co., 520 E. 4th St., Texarkana.
Lavender Radio Supply Co., 110 Swann St., Tyler.
Lynch & Co., Inc., S. H., 2101-3 Pacific Ave., Dallas.
Lynch & Co., Inc., S. H., 910 Calhoun St., Houston.
Lynch & Co., Inc., S. H., 241 Broadway, San Antonio.
Mission Radio Inc., 814 S. Presa St., PO Box 2487, San Antonio.
Montage Radio Distributing Co., 220 Willow Ave., PO Box 3045, Beaumont.
Mooney Radio Supply Co., 1104 Grace St., Wichita Falls.
R & R Electronic Co., 1074 North First, Abilene.
R & R Electronic Co., 416-18 W. Tenth, Amarillo 1.
R & R Supply Co., Inc., 706 Main St., Lubbock.
Radio Parts Co., 1422 Polk Ave., Houston 3.
Ra-Tel, Inc., 2123 Cedar Springs, Dallas 1.
Radio & Television Parts Co., 118-120 7th St., San Antonio 2.
Reeves Radio Supply, 720 N. Stanton St., El Paso.
"Scooters'" Radio Supply, 509-11 Commerce St., Fort Worth.
Shield Co., Inc., 1010 Macon St., Fort Worth.
South Texas Radio Supply, 307 S. Presa St., San Antonio.
Southwest Radio Supply, 1820 N. Harwood St., Dallas.
Standard Radio Supply Inc., 309 Lavaca St., Austin.
Sterling Radio Products Co., 1602 McKinney St., Houston.
Straus-Frank Co., 4000 Leeland, Houston.

Straus-Frank Co., 301 S. Flores St., San Antonio.
Sutton's Wholesale Electronics, Bill, 601 Commerce St., Fort Worth 2.
Wanslow & Co., 912 N. Peak St., Dallas.
West Texas Radio Supply, 1026 West Sixth, Amarillo.
Wicks-DeVilbiss Co., 513-15 S. Staples St., Corpus Christi.
Wilkinson Brothers, 2406 Ross Ave., Dallas.

UTAH

Fljnt Distributing Co., 316 Second South, PO Box 1470, Salt Lake City 11.
Standard Supply Co., Box 2105, Salt Lake City.

VERMONT

Vermont Hardware Co., Inc., 180 Flynn Ave., Burlington.
Vermont Hardware Co., Main & Bridge Sts., White River Junction.

VIRGINIA

Ashman Distributing Co., 807 Granby St., Norfolk.
Baker Sales Co., Inc., H. C., 19 Franklin Road, Roanoke.
Bristol Radio Supply Corp., 31 Moore St., Bristol.
Eastern Electric Co., 920 Commerce St., PO Box 943, Lynchburg.
Hartley & Co., M. A., 327 N. Central Ave., Staunton.
J & J Appliance Co., 211 William St., Fredericksburg.
Johnston-Gasser Co., 3023 W. Marshall St., Richmond 21.
Leonard Electronic Supply Co., 131 Center Ave., NW., Roanoke.
Lynchburg Battery & Ignition, 406 Fifth St., Lynchburg.
Noland Co., Inc., 27th St., & Virginia Ave., Newport News.
R & M Radio Co., 2701 Wilson Blvd., Arlington.
Radio Equipment Co., 821 W. 21st St., Norfolk 10.
Radio Parts Distributing Co., 128 W. Olney Rd., Norfolk 10.
Radio Supply, 711 Granby St., Norfolk 10.
Radio Supply Co., 3302 W. Broad St., Richmond 21.
Rucker Radio Wholesalers, 1906 N. Moore St., Arlington.
Winfree Supply Co., 800 W. Cary St., Richmond 21.
Womack Electric & Supply Co., 502-504 Craghead St., Danville.
Wyatt-Cornick Distributors, Inc., 951 W. 21st St., Norfolk.
Wyatt-Cornick Inc., 14th & Grace Sts., Richmond 19.

WASHINGTON

Associated Industries, 1752 Rainier Ave., Seattle 44.
Columbia Electric & Mfg. Co., South 123 Wall St., Spokane 8.
C & G Radio Supply, 714 St. Helens Ave., Tacoma 2.
Garrerson Radio Supply, Second & Bell Sts., Seattle.
General Radio Inc., 100 Wall St., Seattle 1.
Harper-Meggee, Inc., 960 Republican, Seattle 9.
Harper-Meggee, Inc., 734 N. Division St., Spokane.
Kar Radio & Electric Co., PO Box 676, Walla Walla.
Lay & Nord, 112 S. Second St., Yakima.
Modern Theatre Supply, Inc., 2400 Third Ave., Seattle 1.
Pringle Radio Wholesale Co., 2516 Colby Ave., Everett.
Radio-Electric Supply Co., 2722 Second Ave., Seattle 1.
Radio Products Sales Co., 1214 First Ave., Seattle 1.
Seattle Radio Supply Inc., 2117 2nd Ave., Seattle 1.
Standard Sales Co., 1219 W. First Ave., Spokane 8.
Stewart Co., A. T., 743 Broadway, Tacoma.
Waitkus Supply Co., 110 Grand Ave., Bellingham.
Washington Distributors, 115 Madison Ave., Seattle.
Western Electronic Supply Co., 2609 First Ave., Seattle 1.
Wible Radio Supply Co., S. Tacoma Ave., Tacoma 3.
Yakima Wholesale Radio Co., 206 S. 8th Ave., Yakima.
Zobrist Co., Herb E., 2125 Westlake Ave., Seattle 1.

WEST VIRGINIA

King & Irwin, Inc., 314 Eleventh St., Huntington.
Randle & Hornbrook, 536 7th St., Parkersburg.
Whithead Radio Co., Inc., 367 Bluefield Ave., Bluefield.

WISCONSIN

Acme Radio Supply Corp., 510 W. State St., Milwaukee 3.
Appleton Radio Supply Co., 1217 N. Richmond St., Appleton.
Central Radio Parts Co., 1723 W. Fond du Lac Ave., Milwaukee 5.
Electro-Pliance Distributors, Inc., 2458 W. Lisbon Ave., Milwaukee 5.
Harris Radio Corp., 115 N. Tenth St., Manitowoc.
Marsh Radio Supply Co., 526 W. State St., Milwaukee 3.
Neslo Electronic Distributors, 308 N. Chestnut St., Green Bay.
Northern Electrical Distributors, 708 S. Broadway, Green Bay.
Popkey Co., G. M., Main at Ninth St., Marinette.
Radio Distributors, 701 E. Johnson St., Madison 3.
Radio Parts Co., Inc., 538 W. State St., Milwaukee 3.
Radio Service & Supply Co., Inc., 615 Third St., Wausau.
S. M. Supply Co., 409-11 S. Barstow St., Eau Claire.
Satterfield Radio Supply, 326 W. Gorham St., Madison.
Standard Radio Parts Co., 1244 State St., Racine.
Taylor Electric Co., 112 N. Broadway, Milwaukee 2.
Valley Radio Distributors, 518 N. Appleton St., Appleton.

WYOMING

Casper Supply Co., 444-448 S. Center St., Casper.
Houge Radio & Supply, 2008 Carey Ave., Cheyenne.

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- ✓ Held to rigid specifications
- ✓ Competitively priced
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* * *

RCA Application Engineers . . . with their long experience in circuit and tube design . . . are ready to cooperate with you in the adaptation of RCA components to your specific designs. For further information, write RCA, Commercial Engineering, Section F435, Harrison, N. J. . . . or consult the directory on the back cover for the nearest regional office.



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Built to exacting specifications for superior performance, RCA coils for intermediate frequency picture and sound amplifiers are original designs, available in a wide variety of types to meet your requirements.



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RCA speakers include standard PM types ranging from the smaller sizes up to the high-fidelity 15" Duo-Cone speaker. They have power-handling capabilities up to 25 watts. There's a size and type for every requirement.

TURN THE PAGE 



RADIO CORPORATION of AMERICA
ELECTRONIC COMPONENTS

HARRISON, N. J.

12 REASONS WHY...

it pays equipment manufacturers to deal with RCA



1. RCA Application Engineering Service—

Twelve field engineering specialists devote their time *exclusively* to the design problems of equipment manufacturers. They're ready to pitch in and help you at any time.



2. RCA Application Engineering Laboratories—

RCA maintains application laboratories at Harrison, Lancaster, and Chicago. The services of these laboratories are at the disposal of all RCA tube and component customers.



3. RCA Circuit Investigations—

RCA carries on independent research in circuit design for the exclusive benefit of its tube and component customers. Engineering reports are provided as a free service.



4. RCA Tube and Component Development—

RCA works years ahead in tube and component design—anticipates future requirements. That's why you get the types of tubes and components you want *when* you want them.



5. RCA Engineering Literature—

RCA technical bulletins and data, covering the specifications and operating conditions of RCA tubes and components, are the most authoritative and comprehensive in the field.



6. RCA Manufacturing Facilities—

RCA tubes and components are manufactured in modern plants equipped largely with RCA-designed, precision machinery—your assurance of uniform, dependable quality tubes and components.



7. RCA Quality Control—

Quality controls begin with the raw material and are followed through in every successive step of manufacture and assembly. That's why RCA tubes and components are consistently reliable.



8. RCA Sales and Customers' Service—

A staff of seasoned sales representatives are within convenient reach. They're available *when* you want them. In addition, a staff at the Home Office devotes its time *exclusively* to expediting your orders.



9. RCA District Offices—

RCA maintains three conveniently located district offices in Harrison, Chicago, and Los Angeles to serve equipment manufacturers. You can get prompt service from the office nearest you.



10. RCA Distribution—

RCA maintains bulk tube and component stocks in three warehouses strategically located in Jersey City, Chicago, and Los Angeles for quick service.



11. RCA Pricing—

Mass-production techniques and the RCA "Preferred Type Plan" have consistently operated to reduce manufacturing costs—which mean lower prices to you.



12. RCA Engineering Leadership—

The vast resources of experience and ability that account for RCA's engineering leadership in tubes and components, are of direct benefit to RCA customers... a final reason why it pays to deal with RCA.

Sales and Product Directory

1. **General sales information** or requests for application engineering assistance on receiving and television picture tubes, communications and industrial tubes, power tube fittings, electronic components, and test and measuring equipment:

Equipment Sales Field Representatives at the RCA Sales Office nearest you:

City and State	Street Address	Telephone No.
Harrison, N. J.	415 S. 5th St.	Harrison 6-8000
Chicago 11, Ill.	589 E. Illinois St.	Whitehall 4-2900
Los Angeles 13, Calif.	420 S. San Pedro St.	Madison 9-3671

2. **Inquiries relative to technical bulletins:** Commercial Engineering, RCA,

415 South 5th Street, Harrison, N. J.

3. **Orders and inquiries on orders:** Tubes: RCA warehouse serving you:

Jersey City Warehouse, RCA 34 Exchange Place Jersey City 2, N. J. Phone: Bergen 4-2100	Chicago Warehouse, RCA 589 E. Illinois St. Chicago 11, Ill. Phone: Whitehall 4-2900
Los Angeles Warehouse, RCA, 420 S. San Pedro St. Los Angeles 13, Calif. Phone: Madison 9-3671	



RADIO CORPORATION of AMERICA

ELECTRON TUBES AND COMPONENTS

HARRISON, N. J.

GENERAL ELECTRIC

ELECTRONIC RESEARCH, ENGINEERING & MAINTENANCE EQUIPMENT



TYPE YPD-2

REGULATED POWER SUPPLY

This G-E Regulated Power Supply is a superior quality, medium power, electronically regulated unit designed for use in laboratories, broadcast stations, and wherever a closely regulated d-c voltage of low ripple content is required.

SPECIFICATIONS

DC Voltage Output • YPD-4: 160-1500 v. Current: 0-125 ma.
 250-450 v • PS-4: Dual power supply, each unit supplying 250-400 v. Current: 0-400 ma max.
 DC Current Output 0-300 ma • 4ST1A1: 180-300 v. Current: 0-60 ma.

OTHER UNITS AVAILABLE



TYPE YKS-1

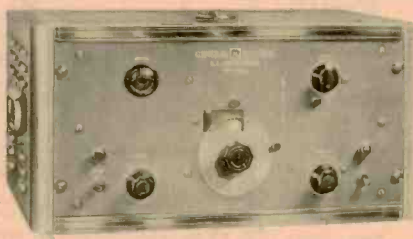
RADIO FREQUENCY RESISTANCE METER

A direct-reading precision instrument for rapid, accurate measurement of RF resistance of radio components and circuits. Operates over exceptionally wide range of 50 kc to 80 mc, and from 0 to 200 ohms. Adaptable for measurement of such constants as RF resistance of ordinary coils, capacitors, transmission lines and antennas, or even complex combinations of such devices. F, C and R are read directly. Reactance and Q determined from simple nomograph.



SQUARE WAVE GENERATOR TYPE YGL-1

- Wide frequency range: 5 to 125,000 cycles.
- Output voltage 0-75 volts.
- Low output impedance.
- Rise time .3 microsecond.



CAPACITOMETER TYPE YCL-1

G-E r-f capacitometer is a convenient, self-contained unit for rapid and extremely accurate measurement of . . .

- Capacity: 0-20,000 micromicrofarads.
- Inductance: 0-10,000 microhenries.



DISTORTION AND NOISE ANALYZER TYPE YDA-1

A precision instrument designed especially for broadcast and laboratory use. Whenever information is required on distortion, audio noise, or hum, the YDA-1 will provide accurate measurement down to extremely low levels.



TYPE YNA-4

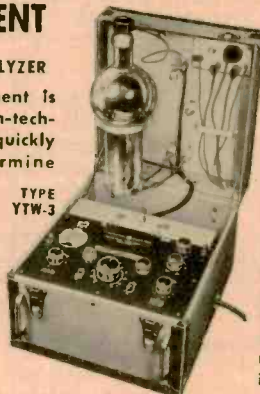
G-E INDUSTRIAL TEST EQUIPMENT

INDUSTRIAL OSCILLOSCOPE

For applications where test equipment is essential for installation and maintenance purposes. Insulated case, sturdy construction, versatile circuits with D-C amplifiers, and good magnetic shielding recommend this oscilloscope for use in industrial and educational laboratories and for production testing.

INDUSTRIAL TUBE ANALYZER

This portable equipment is designed so that non-technical personnel can quickly and efficiently determine the performance of mercury vapor and gas rectifier tubes by measuring the arc drop voltage under load. The periodic testing of rectifier tubes can help prevent equipment failure and loss of operating time.

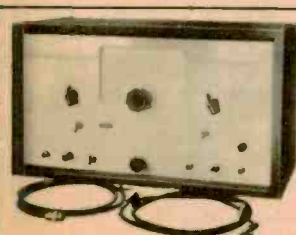


TYPE YTW-3

TYPE SN-3A
POCKET
CHAMBER
ELECTROMETER



An extremely high-quality, self-balancing electrostatic potentiometer. A standard 3-inch meter provides direct measurement in two ranges—50 and 250 mr for rapid, accurate reading of "pencil" type pocket ionization chambers.



TYPE ST-5A
MARKER
GENERATOR

For use with wideband sweeps. Permits employment of multiple markers simultaneously. Separate crystal for each TV channel. No tuning required. Individually calibrated dial for IF (20-50) mc range. Dial can be mechanically indexed at crystal calibration points.



TYPE ST-2A
OSCILLOSCOPE

A new, general purpose oscilloscope. Wide frequency response—from DC to 500 kc, and with gradually reducing response to higher frequencies. High sensitivity. Sturdy construction. Voltage calibrator, Z-axis Input, and DC input coupling to vertical amplifier.



TYPE ST-4A
SWEEP
GENERATOR

Sweep Generator Type ST-4A. Provides at least 15 mc wide linear sweep. Double shielding holds leakage to minimum. The output voltage is greater than 0.1 volts from 4-110 megacycle, greater than 0.5 volts from 170-220 megacycle.



TYPE SN-1A BINARY SCALER

Provides scale of two in self-contained unit that cuts installation and maintenance to a minimum. Permits flexible installations for industrial counting, interval timing, repeat cycling, photographic printing.

- High Speed . . . Up to 200 KC
- Adequate Resolution . . . 5 micro-seconds

Send for This FREE CATALOG

Complete specifications, descriptions, charts and photographs of G-E electronic test equipment, quartz and germanium crystals. Write: General Electric Company, Commercial Equipment Div., Electronics Park, Syracuse, New York.



GENERAL ELECTRIC

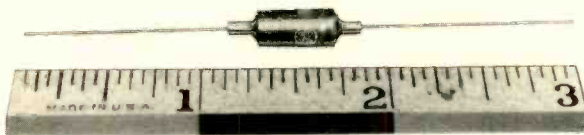
G-E WELDED GERMANIUM DIODES

WELDED CONTACT

LOW SHUNT CAPACITY

INSULATING CASE

1. WELDED CONTACT provides greater shock resistance, improved electrical stability.
2. LOW SHUNT CAPACITY: .8 MMFD. max. for all types.
3. INSULATING CASE simplifies mounting. Mechanically sturdy.
4. SMALL SIZE for "close fits."



5. LONG LIFE: an estimated minimum average life of 10,000 hours.
6. NO HUM—no heater connections—no heating power—no heat.

7. IMPROVED RECTIFICATION CHARACTERISTICS—Has much sharper bend in current/voltage curve than Thermionic Tube.
8. HIGH MOISTURE RESISTANCE.
9. SELF-HEALING under temporary over-voltage conditions.

ELECTRICAL CHARACTERISTICS — (at 25° C.)

DESIGNATION		MAX. INVERSE CURRENT (MA)	MAX. INVERSE CURRENT (MA)	MINIMUM FORWARD CURRENT (MA)	AVERAGE SHUNT CAP.
RMA	GE	AT -50V	AT -10V	AT +1V	(MMFD)
GENERAL PURPOSE					
1N51	G5C	1.667		2.5	0.8
1N48	G5	.833		4.0	0.8
1N52	G5D	.15		4.0	0.8
1N63	G5E	.05		4.0	0.8
TELEVISION					
1N64	G5F	Min. 100 microamps dc load current in specific 44 MC second detector circuit.			0.8
1N65	G5G	.20		2.5	0.8
UHF					
	G7	Noise figure 14 to 19 db in specific 500 MC converter circuit.			
JAN					
1N69	G5K	.85	.05	5.0	0.8
1N70	G5L	.41	.01	3.0	0.8

MAXIMUM RATINGS

DESIGNATION		PEAK INVERSE VOLTAGE AT 25° C	CONTINUOUS REVERSE WORKING VOLTAGE AT 25° C.	AVERAGE RECTIFIED CURRENT (MA) AT 25° C	PEAK RECTIFIED CURRENT (MA) AT 25° C	MAXIMUM SURGE CURRENT (MA) AT 25° C	AMBIENT TEMPERATURE RANGE
RMA	GE						
GENERAL PURPOSE							
1N51	G5C	50	40	25	100	300	-50 to +75° C
1N48	G5	85	70	50	150	400	-50 to +75° C
1N52	G5D	85	70	50	150	400	-50 to +75° C
1N63	G5E	125	100	50	150	400	-50 to +75° C
TELEVISION							
1N64	G5F	20					-50 to +75° C
1N65	G5G	85	70	50	150	400	-50 to +75° C
UHF							
	G7	5		25			
JAN							
1N69	G5K	75	60	40	125	400	70° C Max.
1N70	G5L	125	100	30	90	350	70° C Max.

IN ADDITION—

MATCHED PAIRS of general purpose types—forward currents within 10% of smaller current at + 1 volt

QUADS—Type G-9—Four carefully matched diodes for ring or bridge modulators mounted and hermetically sealed in 6H6 tube shell

TRANSISTORS—Type SX-4A—Tested for 13 to 20 db power gain at 5 kc. Type Z-2—Tested for reverse current characteristics suitable for trigger circuits



NEW HANDBOOK • Vital Facts for Electronics Designers, Engineers and Manufacturers

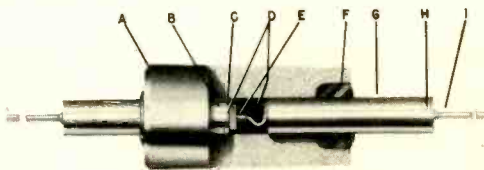
Here are 68 pages of up-to-the-minute information about diodes and their applications in today's widening electronics market. Complete with charts and drawings, it shows you diode characteristics, curves on resistance, voltage, temperature, efficiency, circuit diagrams covering AM, FM, and TV receivers, measuring equipment, radar, and carrier current . . . plus time-saving tips on how to install, check, and inspect diodes in electronic equipment.

Written by General Electric engineers at Electronics Park, the book is assembled in loose leaf fashion for practical use in laboratory or shop. Supplementary sheets on new diode developments will be sent to you as they are published—and at no extra cost.

Worth many times its modest price, this handbook is yours for \$1.25 postpaid. Send check or money order to: General Electric Company, Section 860, Electronics Park, Syracuse, N. Y.

WELDED CONTACT

For Stability
—It's The POINT That Counts



- A. Mineral-filled mold
- B. Solder
- C. Germanium Pellet
- D. Welds
- E. Platinum—Ruthenium v. isker
- F. Thermosetting Cement
- G. Nickel Pin
- H. Weld
- I. Leaded Copper Wire

In a General Electric diode, the use of a platinum whisker permits actual welding of the fine contact point to the germanium. This results in a mechanically secure contact free from shock or vibration variations. Wax filling is not necessary in this type of construction; no impurities can touch the most vital point of a semi-conductor diode.

For complete information, see your local G-E representative, or write: General Electric Company, Section 860, Electronics Park, Syracuse, New York.

GENERAL ELECTRIC

COMPONENT PARTS

Electronics Park, Syracuse, New York

DEFLECTION YOKES

77J11 series

For use with picture tubes having scanning angles up to and including 70°. Provide efficient uniform deflection. Available with ribbon type laminated core or ferrite core.

ELECTRICAL RATINGS:

Horizontal winding: 17 mh (laminated core), 17 mh (ferrite core).

Vertical windings: 40 mh.

Mechanically interchangeable with other leading makes of yokes.

G-E TELEVISION COMPONENTS

G-E Television Components feature **Focus-Deflection Assembly, Horizontal Output Transformer and Ion Trap.** These G-E Television Components, the result of twelve years of research and experimentation, play a vitally important part in providing clearly-focused, precise television reproduction.

WIDTH and LINEARITY

CONTROLS

77J4 and 77J9 series

A complete line of width and linearity controls for use with the other General Electric scanning components. Models with pulse windings available. Also may be used with other leading makes of scanning components.

FOCUS COILS

77J3 and 77J7 series

Combine effects of Alnico 6 permanent magnet and an electromagnet to provide uniform focus with a minimum of circuit power.

This type of focus coil compensates partially for variations in focus caused by line voltage fluctuation.

A complete line of models available to focus all standard picture tubes.

ION TRAPS

77J8 series

Single magnet type available in densities of 20 to 50 gauss. For use with picture tubes from 8½ to 19 inches except those models requiring double magnet type ion traps.

HORIZONTAL SWEEP

TRANSFORMERS 77J1 series

Ferrite core high efficiency transformers for all designs of economical, high quality picture tube scanning circuits. When used with General Electric 77J11 series or other high efficiency yokes, these transformers provide 70° deflection at 13 kv utilizing the new small tubes such as 6AV5, 1X2, and 6W4.

Available complete with 1 X 2 socket and wiring for compact economical installation.

GENERAL ELECTRIC VARIABLE RELUCTANCE CARTRIDGES

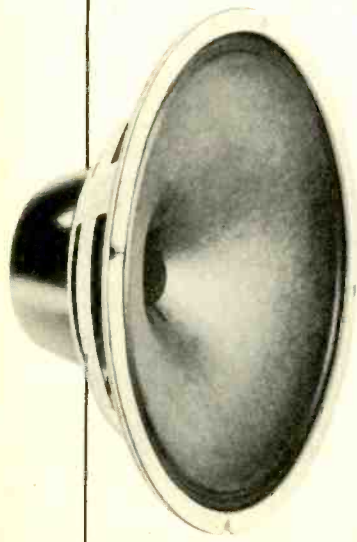
NOW, WITH THE "BATON" STYLUS

A full line of Variable Reluctance Cartridges is available, including single stylus cartridges for standard and microgroove records and the famous Triple Play Cartridge that plays all three speeds, 33⅓, 45 and 78 rpm, without changing its position in the tone arm. Both single stylus and Triple Play Cartridges are available in a special low impedance model for professional and broadcast users.

All diamond and sapphire styli are now built to the "Baton" design, a new G-E achievement affording unusually high fidelity. The double twist feature of the "Baton" Stylus makes possible new heights in compliance while dual damping blocks filter out spurious vibrations.



GENERAL ELECTRIC ALNICO 5 LOUDSPEAKERS WITH THE ALUMINUM BASE VOICE COIL



Cat. No.	Speaker Size Inches	Watts Output	Alnico 5 Mag. Wt. Oz.	VC Imp. Ohms.	Response Cycles	Cat. No.	Speaker Size Inches	Watts Output	Alnico 5 Mag. Wt. Oz.	VC Imp. Ohms.	Response Cycles
400D	4	4	1.3	3.2	140-7000	810D	8	12	6.8	3.2	80-10000
402D	4	4	1.0	3.2	140-7000	818D	8	12	6.8	8	80-10000
403D	4	4	.68	3.2	140-7000	1000D	10	12	6.8	3.2	60-7000
500D*	5	4	1.3	3.2	125-8000	1001D	10	25	14.5	8	60-8000
503D*	5	4	.68	3.2	125-8000	1003D	10	25	9.0	8	60-8000
525D	5 ¼	4	1.3	3.2	120-7000	1012D	10	12	3.16	3.2	60-7000
526D	5 ¼	4	1.0	3.2	120-7000	1018D	10	12	6.8	8	60-7000
527D	5 ¼	4	.68	3.2	120-7000	1200D	12	12	6.8	3.2	60-8000
625D	6 ½	4	1.3	3.2	110-9000	1201D	12	25	14.5	8	50-13000
626D	6 ½	4	1.0	3.2	110-9000	1203D	12	25	9.0	8	50-13000
650D	6 ½	8	2.98	3.2	100-10000	1212D	12	12	3.16	3.2	60-8000
703D	6 x 9	8	1.47	3.2	70-13000	1218D	12	12	6.8	8	60-8000
800D	8	8	2.98	3.2	80-11000						

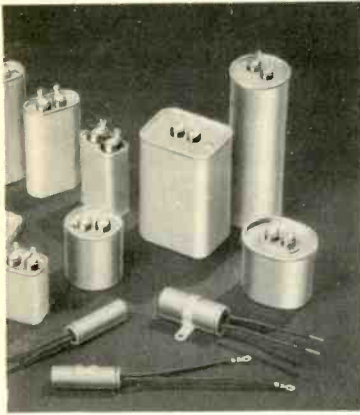
Special Construction for Drive-in Theatre Application

400C22	4	4	1.3	3.2	180-7000	525C18	5 ¼	4	1.3	3.2	160-7000
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Chassis mounting brackets—at no additional cost—with all 4", 5", and 5 ¼" G.E. speakers.
*Round speakers.

WRITE G-E PARTS SECTION, ELECTRONICS PARK, SYRACUSE N. Y., for Complete Details or Bulletins

G-E CAPACITORS

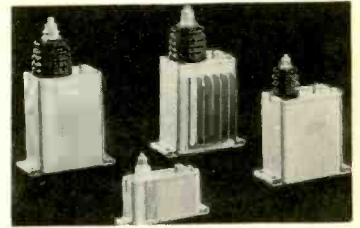


A-C CAPACITORS

Small a-c Pyranol[®] capacitors are recommended for use with motors, industrial control, specialty transformers, and other equipment. Use of Pyranol as a treating material, because of its high dielectric strength, high permittivity, and exceptional stability, has made possible a marked reduction in physical size, as well as a far superior capacitor. Three styles of mounting brackets are available and supplied separate from the units. Units may be operated in any position. Write for Bulletin GEA-2027.

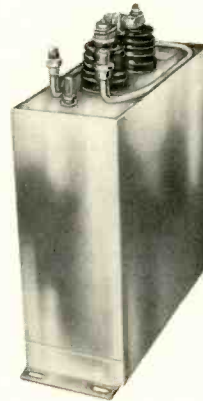
HIGH FREQ. CAPACITORS

High frequency paper-dielectric capacitors are designed for grid and plate blocking service in the electronic oscillator circuits of high-frequency induction heating equipments. They may also be used advantageously in other high-frequency oscillator circuits of a similar nature. Write for Bulletin GEA-4388.



STANDARD RATINGS

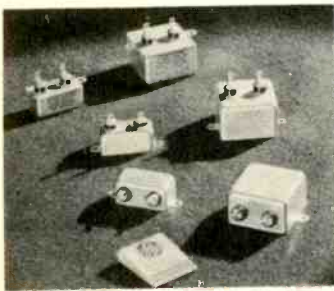
Microfarad rating	D-C voltage rating
.01	5000
	15,000
	20,000



HFP CAPACITORS

These high-frequency, liquid-filled, parallel-plate capacitors have been specifically designed for use in the resonant circuit of high-frequency electronic oscillators, such as those used in electronic heater applications. They may be operated at relatively high voltages and will carry heavy currents continuously at frequencies of 50 kilocycles to several megacycles. Write for Bulletin GEA-4365.

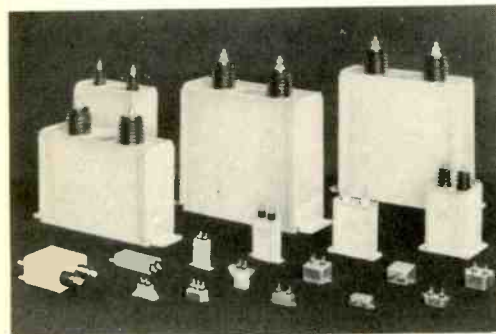
STANDARD RATINGS				
Rated Voltage 60 cycle	CASE STYLES		Drawn cylindrical	Drawn oval
	Fabricated rectangular	Drawn rectangular		
236	1-20 muf	14.5	.....	2-15
275	.....	14.5, 17.5	.....	.....
330	1-50 muf	.....	1.25-12 muf	2-4.8
440	1-28 muf	10 muf	.....	3
660	1-15 muf	.....	1.75, 1.85	1.75



D-C CAPACITORS

These Pyranol[®] capacitors are designed for commercial electronic applications, ranging from the small units for blocking and by-pass service to large-capacitance units for power supply filters, and high-voltage units for use in heavy duty X-ray equipment. Write for Bulletin GEA-2621.

STANDARD RATINGS		
Case styles	Voltage	Capacitance
40	600-1500	.25-4 muf
50, 51, 52	100-1000	0.5-4 muf
60, 62, 64	400-1000	1.0-2 muf
66, 68	600-1000	0.1-1 muf
70	400-100,000	0.1-75 muf



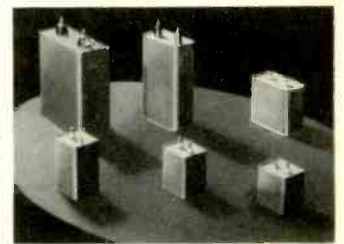
JAN-C-25 SPECIFICATIONS

Intended primarily for filter, by-pass and blocking purposes, these capacitors are for use in equipment required by the armed forces. The specification qualifies these units for applications where the a-c component of the impressed voltage is small with respect to the d-c rating. Write for Bulletin GEA-4357.

STANDARD RATINGS		
Case styles	Voltage	Capacitance
CP40	600-1500	.25-4 muf
CP53, -54, -55	100-1000	.05-4 muf
CP61, -63, -65	400-1500	.01-1 muf
CP67, -69	600-1000	.01-1 muf
CP-70	600-12500	0.1-15 muf

STANDARD RATINGS		
Max. permissible RMS working volts	Microfarad rating	Max. permissible RMS working current in amp. at 540 kc
2500	.027	229
3000	.0215	217
4000	.017	231
4500	.014	214
5500	.0105	196
6000	.008	163
7800	.0076	201
	.006	159
9000	.0054	165
11000	.0042	128
	.0037	139
	.0029	109

* Trade-Mark Reg. U. S. Pat. Off.

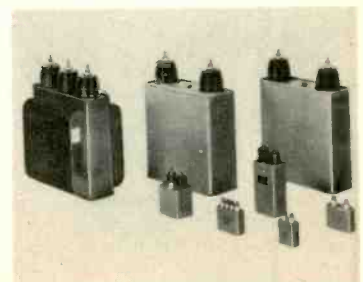


ENERGY STORAGE AND DISCHARGE

These d-c Pyranol[®] capacitors for phototube and similar light-duty energy storage applications are the result of years of experience in the design and manufacture of capacitors for this type of service. They are relatively light weight, small, stable capacitor having a life consistent with the application involved. Write for Bulletin GEA-4646.

PULSE-FORMING NETWORKS

These capacitor pulse-forming networks, type E, are for applications in radar and industrial equipment where the normal (exponential) capacitor discharge shape is not suitable and where an impulse having a definite energy content and duration is required. Write for Bulletin GEA-4996.



G-E SPECIALTY TRANSFORMERS FOR ELECTRONIC EQUIPMENT

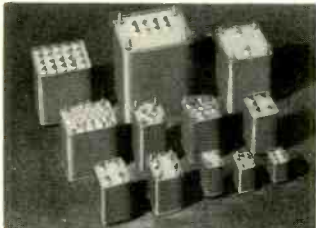
The Specialty Transformer Division of the General Electric designs and manufactures transformers for virtually all electronic applications except those for home radio and television receivers. It has been the general practice to design and build transformers to individual specifications rather than offer a so called "standard line" from which the most suitable model could be selected and adapted to the application. In this unusually progressive field, custom designed-precision-built transformers offer the user greater flexibility in the design of his equipment, better space utilization, faster assembly, and ultimately a higher degree of satisfaction.

Included among the thousands of models in our active files are custom designed ratings ranging in size from $\frac{3}{4}$ ounce to hundreds of pounds. The most common units in current production are: plate transformers (both single and three-phase), filament transformers (including the high-reactance design), plate and filament transformers, filter reactors, and pulse transformers. Most of them can be designed in any of the construction styles described below. In addition, many units are designed for higher operating temperatures, utilizing Silicone, for use where minimum size and weight is paramount.

You are cordially invited to contact our representatives for additional information, or for assistance in your transformer requirements. Our vast experience in designing and building transformers for electronic applications particularly those of a complex nature, may well serve you advantageously. You may wish to have a catalog listing and describing many of these units. Ask for Bulletin GEC-481.



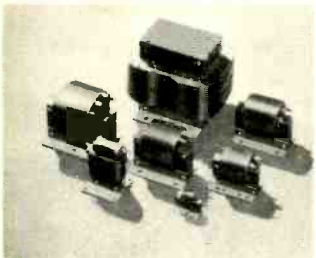
Compound-filled units



Hermetically sealed transformers



Core-and-coil type units



Permafil Type Transformer

CONSTRUCTION TYPES

COMPOUND-FILLED Particularly suitable for applications where moisture or humidity is excessive. For such applications, they are far superior to core-and-coil units. If immersion-proof unit is not required, they are more economical than hermetically sealed transformers. They have wide application in the electronics field, such as in frequency-modulation, carrier-current, and speech-input equipment. An especially useful feature is the universal mounting — the units can be top or bottom mounted for open or underdeck wiring.

HERMETICALLY SEALED Protected, internally, from the effects of changing atmospheric pressure, and insulation breakdown due to humidity, and, externally, from corrosion caused by salt-water vapor. Withstands successfully the rigorous salt-water immersion and salt-water spray tests as specified by the Signal Corps, the Air Forces and the Navy. The hermetically-sealed units are specified as standard iron-core components for such apparatus as aircraft receivers and transmitters, UHF equipments, and landing-boat receivers. Furnished with terminals and mounting studs located either on the top or bottom.

CORE AND COIL Usually applied where moisture resistance is not an important factor, and where size and weight must be kept to a minimum. Composed of automatically wound coils imposed on finest-grade silicon steel core laminations, they are the same uniform, high quality as our encased transformers. Made to exacting tolerances to provide excellent electrical characteristics. Terminal boards top or bottom mounted, or with leads, and with mounting studs or brackets to meet special requirements.

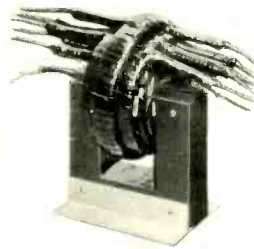
PERMAFIL TYPE For electronic applications. They utilize a special core-and-coil construction which permits size and weight advantage comparable to, and in many instances, better than conventional core-and-coil unit. Completely protected by a tough coating of Permafil (a synthetic resin developed by G-E) which makes them highly moisture resistant. Particularly adaptable to aircraft use where size and weight requirements are extremely critical.

MAGNETIC AMPLIFIER

The General Electric Amplistat, or self-saturating magnetic amplifier, is a static device incorporating saturable reactors with highly specialized characteristics, and metallic rectifiers as its basic components.

Saturable-reactors are commonly used for the control of a-c power and are built in a wide range of sizes. The Amplistat, a high-gain device, is normally used to amplify weak signals to the power required to operate solenoids, motors, Amplidyne fields, generator fields, saturable-reactor fields, indicating lights, or heating elements.

A two-stage Amplistat, for example, will amplify a thermocouple signal change of 10 microwatts to an output change of 200 watts. It can be designed for virtually any gain that is required. It should be noted, however, that gain and response are interrelated in inverse proportion and that one has to be sacrificed somewhat in applications in which the other is of predominant importance.



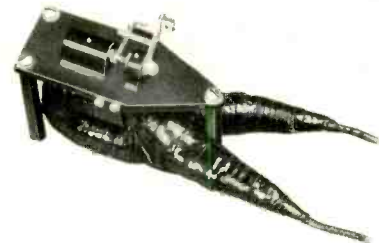
also effected over similar construction.

GOOSENECK FILAMENT TRANSFORMERS

are used as components of radar and transmitter equipment, and allied devices which require high operating voltages above ground. Construction type shown in the photograph permits a substantial reduction in size and weight — critical factors in many installations. A cost savings is ratings of enclosed type

CONTROL AND SIGNAL TRANSFORMERS

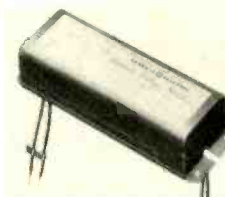
Designed to supply low-voltage circuits for economical operation of many types of electronic equipment. Bulletin GEA-1358.



ARC-BACK INDICATORS are designed for use with tube rectifiers to indicate a reversal of direct current. When an arc back occurs, and the direct current flows in the opposite direction, the magnetic field which ordinarily holds the indicator in a horizontal position is neutralized. This permits the indicator to spring to a vertical position, thus indicating a reversal in the direction of the direct current. The indicator can be connected to a switch for audible indication rather than visual, to fit certain applications.

AUTOMATIC VOLTAGE STABILIZERS

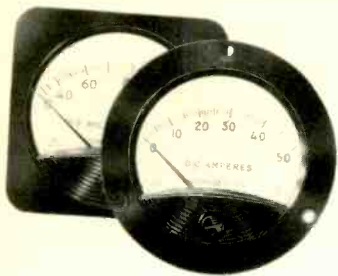
The necessity of maintaining a constant-voltage supply is highly important in the operation of electronic equipment. For this purpose, General Electric builds an extensive line of automatic voltage stabilizers ranging in size from 15 va to 5000 va.



All voltage fluctuations between 95 and 130 volts are automatically leveled out. Stabilization is virtually instantaneous, and within ± 1 per cent for fixed, unity-power-factor loads. These stabilizers have no moving parts, and require virtually no maintenance. Bulletin GEA-3634.

GENERAL ELECTRIC

G-E ELECTRICAL INSTRUMENTS



SMALL PANEL—2½ inch . . . General-purpose, small panel instruments for use in radio and communications equipment where compactness (particularly minimum depth behind the panel) is essential. Available in a variety of ratings: Type DW-71 voltmeters, ammeters, milliammeters, and microammeters for measuring of d-c voltage and current • Type DW-72 ammeters and milliammeters for measuring radio-frequency current (ac-) • Type DW-73 voltmeters, milliammeters and microammeters for measuring audio-frequency current (a-c).

VU VOLUME- LEVEL INDICATOR Type DO-61



A Standardized Volume-level Indicator for Radio Broadcasting, Sound Recording, and Communication Systems. In addition to possessing highly desirable characteristics for broadcast monitoring, and db measurements of loss or gain in transmission circuits and amplifiers, the instruments are recommended for use in sound recording, and for harbor craft communications and other applications where signal-level measurements are to be made.

ADVANTAGES—Standardizes measuring—makes possible better correlation between results of different observers • In many instances it permits more efficient use of facilities • Allows more effective monitoring • Motion of pointer easier to follow • Peaks easier to obtain • Reduced eyestrain as a result of long scale, simplified scale plate and contrast between colors employed, pointer construction and optimum dynamic characteristics • Accurate over wide range of frequency.

DIRECT-CURRENT, TYPE DW-71			THERMOCOUPLE, TYPE DW-72		A-C RECTIFIER, TYPE DW-73	
TYPE	RATING RANGE	APPROX. RESIST. RANGE OHMS	RATING RANGE	APPROX. RESISTANCE RANGE OHMS	RATING RANGE	APPROX. RESISTANCE RANGE OHMS
AMMETER	1 to 300 amps.	.00167 to .05	1 to 20 amps.	.012 to .29	1 to 15 ma.	100 to 660
MILLIAMMETER	1 to 500 ma.	.100 to 25	100 to 800 ma.	.48 to 6.8	1 to 15 ma.	100 to 660
MICROAMMETER	50 to 7750 ua.	51.5 to 2030	Primarily for measurement of r-f, a-c in radio or other electronic circuits. Indicates antenna current in radio transmitters; applications include television transmitters, radar, and wave meters.		200 to 750 ua.	900 to 3700
VOLTMETER	1 to 200 v.	100 to 40000	For testing equipment on electronic circuits, volume-level indicators in communications equipment.		1 to 500 v.	2000 to 500000
VOLTMETER 1000 Ohms per V	1 to 800 v.	1000 to 800000				
KILOVOLT METER	1 to 5 kv.	1000000 to 5000000				



TIME METERS — Type KT For use on machine tools, radio transmitters, welding machines, etc., where it is desirable to have a record of utilization. Used on radio transmitters to indicate tube life, it matches that of other panel instruments. Available in 3 forms: panel or switchboard mountings, portable, and conduit mounting. Can be furnished to match operating characteristics of various machines and to record operating time in hours, tenths of hours, or minutes. Time meter is furnished in a molded Textolite® case similar to the miniature

*Trade-Mark Reg. U. S. Pat. Off.

SWITCHBOARD INSTRUMENTS—General Electric switchboard instruments include voltmeters, ammeters, wattmeters, frequency meters, power-factor meters, varmeters, synchrosopes, temperature meters, and ground detectors. Pertinent data and listings for the more common devices are presented in this publication, although instruments of other ratings and constructions are also available: for example, thermocouple types for the measurement of h-f current or rectifier types for high-sensitivity a-c measurements.

A-C TYPES	RANGE	OPERATING PRINCIPLE	CYCLES	ACCURACY
VOLTMETER	10-750 v.	Attraction-Repulsion	25-125	± 1 per cent
AMMETER	1-10 a. self-contained. otherwise limit is limit of C.T.	Attraction-Repulsion	25-125	± 1 per cent
D-C TYPES				
VOLTMETER	1-750 v.	Perm. Magnet, Moving Coil		± 1 per cent
AMMETER	1-3000 a.	Perm. Magnet, Moving Coil		± 1 per cent
MILLIAMMETER	1-750 ma.	Perm. Magnet, Moving Coil		± 1 per cent
MICROAMMETER	100-750 μa.	Perm. Magnet, Moving Coil		± 1 per cent

WATTMETERS: 25-125 cycle; Accuracy—±1%; Scale Length and Dimensions same as single instruments; Operating Principle—Electro-dynamometer; Single-Phase and Poly-phase types.

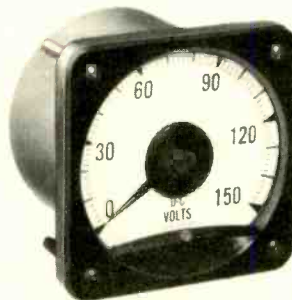
VARMETERS: 3-phase, 3-wire; 2-phase, 3-wire; 2-phase, 4-wire; 3-phase, 4-wire; 5 amps; 120-208 v; 25 cycles to all commercial frequencies; Accuracy—±1%; Operating Principle—Electrodynamometer with autotransformer.

FREQUENCY METERS: 120 v; 60 cycles; Accuracy—22.5-27.5 c—0.08 c, 45-55 c—0.15 c, 55-65 c—0.15 c, 40-65 c—0.25, 20-90 c—1.00 c, 350-450 c—1.50 c; Operating Principle—Resonant-circuit.

POWER FACTOR METERS: 3-wire, 3-phase, 25-125 cycles; 4-wire, 3-phase, 25-125 cycles; 5 amps; 120-600 v; Accuracy—±.01 power factor for rated current, voltage and frequency; Operating Principle—Polarized-vane.

SYNCHROSCOPES: 25 cycles with external impedor; 50 and 60 cycles, self-contained; 120 v; 360° rotation; Operating Principle—Polarized-vane.

3½ inch instrument to match and harmonize with other instruments mounted on the panel or switchboard. 2 styles available; round and square. Leads provided for easy wiring. Smaller size for panel mounting. Requires same space for mounting as small panel instruments. For permanent installation, time meter is furnished in a drawn steel case, designed for ease in mounting in any convenient conduit or junction box. For portable use, a pedestal mounting is supplied. Write for Bulletin GEA-3299.



Type DB-15 Voltmeter

**AMMETER
and
VOLTMETER**
for semi-flush mounting



Type AB-15 Ammeter

SCALE LENGTH . . . 7.1 in.
DIMENSIONS
Semiflush Mounting
4¼" x 4¼"

ACCESSORIES: Various accessories have been designed to widen the scope of measurement of these switchboard instruments. They are adaptable to all types mentioned and include the following:

- External Shunts for D-C Ammeters
- Standard Shunt Leads
- Long Shunt Leads
- Transfer Switches

WRITE G-E APPARATUS DEPT., SCHENECTADY, N. Y. for complete details or Bulletins

GENERAL ELECTRIC



420 CYCLE MOTOR-GENERATOR SET — TWO UNIT — TWO BEARING 60-CYCLE DRIVE MOTOR — OPEN DRIPPROOF — CONTINUOUS DUTY — 40 C RISE

Ball Bearing—Overbolt Construction—Separately Excited (230 Volt) Generator—Induction Drive Motor

PERFORMANCE: Voltage regulation — 15%. (Frequency regulation — 4%).

FIELD RHEOSTAT: CR8000 6-inch single plate is recommended. Order separately from Ind. Control Div., Schenectady.

Rating — Output					Rating — Input			Model No.	Field Amp.	Field Rheostat Recommended
Kva	Rpm	Volts	Freq.	Phase	Drive Motor					
					Volts	Freq.	Phase			
2	3600	128	420	3	208-220/440	60	3	5ATB75PA1	1.5	80 ohms

High-frequency Motor Alternators: Highly recommended for testing equipment and source of power supply for high-frequency machines. Small and lightweight units, but sturdy and hard-working.



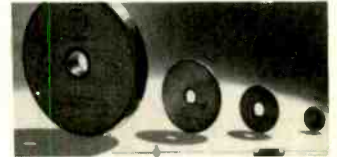
FRACTIONAL H P MOTORS

General-purpose Capacitor-start Motors. Used for a multiplicity of general applications. Operate at 1725 rpm on 60 cycle, single-phase power. Open (dripproof) construction with sleeve bearings and solid welded-on base.

HP	Volts	Model
1/6	115	KC43A8280
1/4	115	KC45A81400
1/3	115/230	KC47A8899
1/2	115/230	KC63A8666
3/4	115/230	KC65A8559

Polyphase motors for Machine-tool and Other Industrial Applications. Operate at 1725 rpm on 60 cycles, 3 phase power. Totally enclosed construction with ball bearings and bolted-on cast-iron base.

HP	Volts	Model
1/4	208-220/440	K43AC2717
1/3	208-220/440	K45AC2000
1/2	208-220/440	K63AC2528
3/4	208-220/440	K65AC179



THYRITE . . . A nonlinear resistance material possessing unique electrical property whereby the current varies approximately as a fourth power of the applied voltage. Some of its many applications are: For protective purposes (to limit voltage surges) • As a stabilizing influence on circuits supplied by rectifiers • As a potentiometer (the division of voltage can be made substantially independent of load current) • For the control of voltage-selective circuits, either independent of, or in combination with, electronic devices Write for Bulletin GEA-4138A.



Write for Bulletin GEA-5093.

CAST GLASS BUSHING

. . . In ratings up to the 15-kv power-transformer impulse level and for currents up to 800 amp permit the successful design of hermetically sealed electric apparatus. Heatproof, leakproof, shockproof bushings for use in vital communication and commercial application where severe operating conditions are continually encountered. Available in a wide variety of sizes and shapes in both single- and multi-conductor designs, they offer the following advantages. 1. Attached directly to apparatus, making gaskets unnecessary and providing a hermetic seal. Designers may utilize all the advantages of present-day insulating materials without fear of reduced dielectric strength caused by the entrance of moisture. 2. Make possible design of more compact, lighter-weight apparatus at lower cost for airborne and other specialized equipment uses. 3. Thermal characteristics of the glass used have been coordinated with those of the metal parts which are directly sealed into the bushing to produce strain-free seals which are capable of withstanding thermal shocks far in excess of operating conditions.

TERMINAL BOARDS

. . . Where leads are brought to any part for permanent or temporary connection, especially if many wires are involved, G-E terminal boards provide a neat, compact, and convenient method for attaching the wires. Several types are available to meet the various requirements.

Type EB-1: (Fig. 1) Are 1-piece molded terminal boards with washer-head binding screws for circuit-wire connections. 4, 6, 8, and 12 pole units available. Combinations of these are used to meet specific conditions. Rated 30 amp and 600 v.

Type EB-2: (Fig. 2) Identical in form and construction, except that pressure connectors are furnished for the wire connections. These connectors are simply screwed on the stripped end of the circuit-wire and accommodate 1 No. 8 Awg stranded, 2 No. 12 Awg stranded, or 3 No. 12 Awg solid wires. Rated 30 amp and 600 v.

EB-1 (Fig. 3) with Hinged Cover to prevent collection of dust around connections are recommended when the EB-1 or EB-2 terminal boards are mounted flat. Covers are black Textolite,* available for all sizes of boards. A boss at each end of both EB-1 and EB-2 prevents breakage when mounted on uneven surfaces, and angular construction of base provides increased creepage distance.

CR5885: (Fig. 4) Are sturdy, compact, multipole. 1-piece molded construction, available in 3-, 5-, 7-, and 9-pole units. Staggered arrangement of poles provides more clearance and creepage distance in less space between poles and permits installation where dust conditions are severe. Have clamp-type connectors, and end bosses for mounting on uneven surfaces. Rated 30 amp and 600 v. Write for Bulletin GEA-1497.

*Trade-Mark Reg. U. S. Pat. Off.



Fig. 1 Type EB-1



Fig. 2 Type EB-2



Fig. 3 Type EB-1



Fig. 4 CR5885

OTHER G-E APPARATUS DEPT. PRODUCTS

Amplidyne control	Bulletin GEA-4889
Gear-motors	Bulletin GEA-1437
Generators	Bulletin GEC-289
Strain gages	Bulletin GEA-4226
Test sets	Bulletin GEA-4477
Thermostats	Bulletin GEA-4991
Thickness gages	Bulletin GEC-319
Voltage stabilizers	Bulletin GEA-3634

G-E MIDGET SOLDERING IRON



Weighing only 1 3/4 ounces, this 25-watt, 6-volt, 8-in. featherweight iron is ideal for close-quarter soldering with pin-point precision. Designed for use where conventional irons might cause damage . . . be clumsy to handle . . . be more expensive to operate. The Midget literally "goes places" with greater efficiency and less power . . . with no sacrifice in heat or speed. It has chisel-shaped iron-clad copper tips, either 1/8- or 1/4-in. diam., as desired. Specially designed 115/6-volt transformers available as optional equipment.

CALROD SOLDERING IRONS

Designed for heavy-duty industrial use, G-E Calrod soldering irons combine outstanding construction features with unmatched performance. Ironclad-copper tips and built-in Calrod heaters give fast dependable heat — permit continuous, high-speed soldering—eliminate frequent dressing and reheating. Strong 18-8 stainless steel shells withstand hard use. Simplified disassembly features permit "on-the-spot" maintenance. Write for Bulletin GEA-4519 B.

Cat. No.	Watts	Tip Diam. In.
6A161	75	3/8 & 1/2
6A162	100	3/8 & 1/2
6A200	100	3/4
6A201	200	1
6A202	300	1 1/4
6A318	650	1 3/4
6A319	1250	2

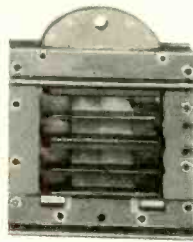
WRITE G-E APPARATUS DEPT., SCHENECTADY, N. Y. for complete details or Bulletins

A-c or D-c SOLENOIDS—CR9502-9503

Industrial-type Solenoids CR9503					
Size of Solenoid	Type of Solenoid, 60 and 50 Cycles	Pounds Pull or Push		Wt. of Plunger in Lb.	Max. Stroke in In.
		At 85% Voltage	At 100% Voltage		
209E	Pull	0.65	0.9	0.12	3/4
209D	Pull	0.9	1.3	.18	1
209C	Pull	3.2	4.5	.31	1
209C	Push	3.2	4.5	.5	1
211E	Pull	10.2	14	.94	1 1/4
211E	Push	10.2	14	1.19	1 1/4
206B	Pull	22.7	30	2.5	1 3/4
206B	Push	22.7	30	3.3	1 3/4
212A	Pull	21.7	30.2	3.3	2
212A	Push	21.7	30.2	4.75	2
213A	Pull	42	57	5.4	2
213A	Push	42	57	7.0	2
214A	Pull	51	73	10	3
214A	Push	51	73	16	3
215A	Pull	70	97	13	3
215A	Push	70	97	19	3

SIMPLIFY COMPLEX INSTALLATIONS: In direct or remote control requiring short powerful thrusts.

WIDE SELECTION: 32 different sizes of uniform construction available for push- or pull-type operation and for use on a-c or d-c circuits up to and including 550 volts. To push or pull in straight line, or to provide mechanical motion at a remote or inaccessible location. Complete line of sturdy, industrial-type solenoids for heavy duty applications, available in rolings suitable for almost every application. Operating remotely from push-button station, or, automatically by limit switches, pressure switches, float switches, or other pilot circuit devices. Write for bulletins GEA-5163 (CR9503).



SELSYNS CR9890



Indicating or control selsyns are a reliable, accurate, and rapid means of communication. Used successfully as indicating positions of valves, governors, bridges, turntables, dampers, etc. Very successful in servo systems where the selsyns operate to guide the action of the power units. Two types of selsyns are available—the high-accuracy type which has an accuracy of ± 1 degree and the general-purpose type which has an accuracy of ± 5 degrees. Selection can be made from a variety of sizes suited for each application. Selsyns are also available in a variety of complete indicators and transmitters. Write for Bulletins GEA-2177A and GEA-2176A.

SWITCHETTES—Unit Contact Mechanisms



Size 1 Switchette with terminals projecting from end surfaces. Also available with terminals projecting from top cover.

RATING at 50,000 ft. on 12 and 24 v
a. Single-circuit forms or 2-circuit form with electrically separate circuits...
Size 1, 10 amp Size 2, 25 amp
b. Wire to provide single-pole, single-throw...
Size 1, 3.5 amp Size 2, 4 amp

SPECIFICATIONS

	Size 1	Size 2
Weight	0.02 lb	0.125 lb
Plunger travel differential	0.020 in. —0.007 in	0.040 in.*
Travel to trip	0.037 in. —0.012 in.	.....

*Approximately same as contact air gap.

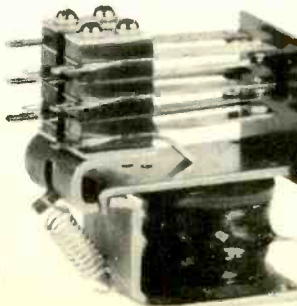
Contact structures available.
1. Single-circuit, normally closed. 2. Single-circuit, normally opened. 3. Two-circuit — one normally open, and one normally closed.

Size 2 Switchette with totally enclosed contact structure. These photos are not exact size.



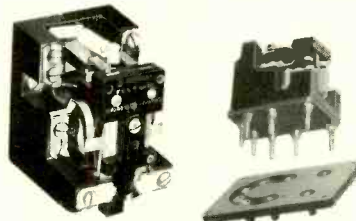
PUSH BUTTON STATIONS

For control circuits of magnetic controllers designed for push-button control. Standard- and heavy-duty stations available which may consist of various combinations of momentary-contact buttons, maintaining-contact buttons, selector switches, indicating lights and surface or flush mounting. Standard-duty station recommended for use with contactors rated up to and including 150 amp. Heavy-duty push buttons able to handle higher control currents. Large, double-break contacts and substantial construction of heavy-duty stations withstand frequent operation and rough usage on machine-tool and similar applications. General-purpose, watertight, dusttight, corrosion-resistant and explosion-proof enclosures.



RELAYS

GENERAL-PURPOSE RELAY CR2790E



RATING: 10 amp—110 or 220 v, a-c; 1/2 amp at 110 v or 1 hp at 220 v.

This relay is used to control pilot circuits in response to remote control switch or thermostat, or for direct control of small motors driving pumps, fans, etc. It is also used as a fractional-horsepower motor starter, or in conjunction with a magnetic switch controlling larger motors, heating or lighting circuits, and signal systems. This sturdy, general-purpose relay comes in 7 open or enclosed forms: enclosed in general purpose case, or in explosion-proof and watertight case; open relays may be front-connected or back-connected; or for mounting on a metal base or an insulated base, or with plug-in jacks. 3 contact arrangements are available: double-pole, double-throw; double-pole, single-throw; single-pole, single throw. Protection against hazard from restarts after power failures can be provided with the double-pole form when one pole is used as a holding interlock in the coil circuit together with a momentary contact push-button station. The relay can be mounted on either insulated or noninsulated bases. The enclosed forms have convenient conduit entrances at both top and bottom. Write for Bulletin GEC-257.

CURRENT-SENSITIVE RELAYS

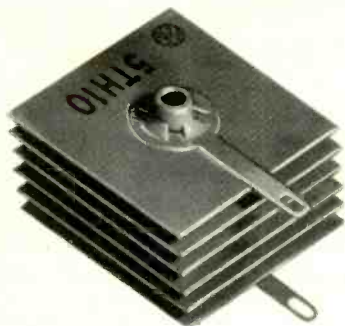
For electronic applications where switching functions must be performed by small amounts of power, a complete line of current-sensitive, d-c relays is available. Withstand shock and vibration and operate in ambient temperature from -70 F to 200 F. Cover range from 10 mw to 180 mw; 0.47 ma to 1470 ma; 0.07 ohms to 67,000 ohms coil resistance; and weigh from 0.1 to 0.7 lb. Contact ratings from 12 v d-c (a-c) with a contact rating at 24 v (d-c) of 2.0 amp non-inductive and 0.5 amp inductive. Installation easy with plug-in base terminals. Write for Bulletin GEA-3819D.



APPLIANCE RELAY CR2790G

Small, inexpensive relay designed for use in vending machines, coin changers, conditioning control and similar equipments using low power—115 v or less—control circuits. Available in many contact arrangements, priced and tooled for high-quantity production to meet growing demand for control relays for automatic appliances. Will handle up to four-pole double-throw duty at 3 amp on 115 v a-c. Several forms available for use on a-c or d-c. Write for Bulletin GEA-4864.

APPARATUS DEPT.
SCHENECTADY, N. Y.

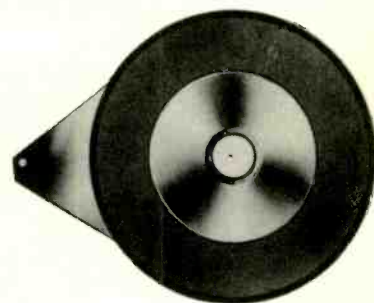


G-E SELENIUM RECTIFIERS

FOR ELECTRONIC APPLICATIONS

They "UP" Quality. They "CUT" Costs. They provide dependable performance. They save space. Special construction provides constant and uniform contact pressure on all cells, regardless of temperature variations. A moisture-resistant finish gives protection against humidity, condensation, and dampness.

G-E selenium rectifier stacks are available for use in radio, television, and other electronic circuits requiring 117-volt input with output loads ranging from 80 ma to 350 ma. Thus G-E rectifier stacks may be used in amplifier circuits, voltage doubler circuits, to eliminate tubes, etc. Made by the patented G-E evaporation process, these selenium rectifiers have a long life with minimum aging and a stabilized output.

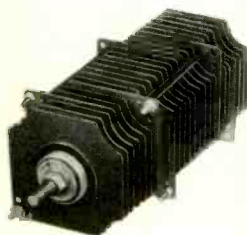


G-E COPPER-OXIDE RECTIFIER

FOR SELF-CHARGING PORTABLES

The General Electric copper-oxide rectifier, Model 6RC8Y3, specially constructed for "self-charging portable radio receivers." Its advantages include: 1. OCCUPIES LESS SPACE. 2. EASY TO INSTALL. 3. COOL OPERATION. 4. LONG LIFE. 5. AMPLE CURRENT CAPACITY. 6. ALL-METAL CONSTRUCTION. For further information, write to Section 640-260, Apparatus Department, General Electric Company, Schenectady, New York.

G-E RECTIFIER STACKS COPPER-OXIDE



Copper-Oxide Rectifier Stacks offer the following advantages. They . . . Cost less per cell • Stop "aging" after a few months • Are more efficient at high current densities • Will stand short-time voltage (as well as current) overloads. Used for such applications as . . . Circuit breaker operations • Blocking relays in control circuits • Exciter circuits for ignitrons, etc.

SELENIUM

G-E selenium rectifier stacks are made from the highest quality selenium cells. Because of their low forward resistance and low back leakage, G-E selenium rectifiers are recognized as the leader in quality at competitive prices. Used for such applications as . . . Control circuits — Power supplies — Arc suppressors — Testing equipment — Relay and solenoid power supplies — Magnetic amplifiers — Business machines — and many special electronic circuits.



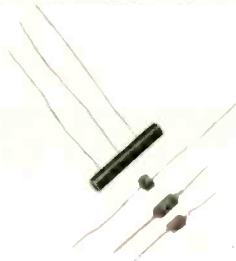
TUNGAR BULBS

Still recognized as a low-cost method of rectification, Tungar* bulbs are reliable, long-lived, and have stable characteristics. They offer a low initial-cost method of obtaining a source of direct current for such applications as . . . Magnetic clutches — Battery chargers — Sound systems — etc.

To fully meet your needs, General Electric makes all three types. If you have a rectifier problem, bring it to us — we play no favorites; we will give you an impartial recommendation.

*Reg. U.S. Pat. Off.





K-TYPE RECTIFIER CELLS FOR ELECTRONIC CIRCUITS

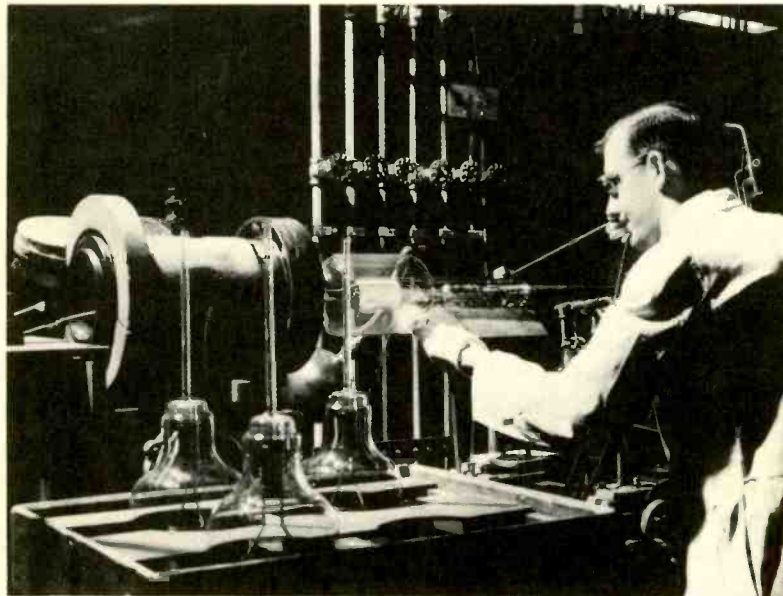
G-E miniature K-type cells can be used to replace tubes in many electronic circuits. Their small size make them ideal for many applications where space is a problem. Low forward resistance, low back leakage, and minimum aging assure satisfactory service under normal conditions. Typical applications are: Dual-diode circuits • Voltage-doubler circuits • Blocking. Advantages are: Long-life • Stability • Less replacements (under normal conditions expected to outlast tubes) • Uniformity • Saves space • Lower cost (No sockets, minimum installation expense).

	K-1	K-2	K-3	K-4
MAX. RMS VOLTS	18	18	40	18
MAX. INVERSE PEAK VOLTS	25	25	56.5	25
H.W. MAX. PEAK CURRENT M.A.	.14	3.5	7.0	7.0
H.W. MAX D.C.M.A.	.10	2.5	5.0	5.0
F.W. MAX. D.C.M.A.	.20	5.0	10.0	10.0

The above cells can be assembled into stacks to meet specific requirements.

GENERAL ELECTRIC

THERE'S A G-E ELECTRONIC TUBE FOR EVERY PURPOSE



G-E Electronic Tubes are accurately designed to meet the exacting requirements of electronic circuits — whether for communications or industrial use. They are manufactured under rigid material and process controls to assure lasting performance within their ratings. New applications in communications and industrial equipment constantly demand new tube types—GE designs tubes to meet every need.

A Complete Listing of G-E TRANSMITTING AND INDUSTRIAL TUBES

The following list illustrates the completeness of the G-E Line—

An Electronic Tube for Every Purpose

For complete data send for the G-E Tube Manual shown on the opposite page.

PLIOTRONS

GL-2C39			GL-5513
GL-2C40			GL-5516
GL-2C43			GL-5518
GL-2E24			GL-5549
GL-2E26			GL-5556/PJ-8
GL-2E30	GL-801-A	GL-889-A	GL-5588
GL-3C22	GL-802	GL-889R-A	GL-5610
GL-1000T	GL-803	GL-891	GL-5648
GL-4C21	GL-805	GL-891-R	GL-5654
GL-4D21/4-125A	GL-806	GL-892	GL-5670
4X150A	GL-807	GL-892-R	GL-5674
GL-5C24	GL-809	GL-893-A	GL-5680
4-250A/5D-22	GL-810	GL-893A-R	GL-5686
GL-7C29	GL-811-A	GL-895	GL-5691
GL-7D21	GL-812-A	GL-895-R	GL-5692
8D-21	GL-813	GL-898-A	GL-5693
GL-9C21	GL-814	GL-954	GL-5725
GL-9C22	GL-815	GL-955	GL-5726
GL-9C24	GL-826	GL-956	GL-5739/FP-62
GL-35T	GL-828	GL-957	GL-5740/FP-54
GL-100TH	GL-829-B	GL-959	GL-5742/PJ-7
GL-146	GL-830-B	GL-1000T	GL-5743/PJ-21
GL-152	GL-832-A	GL-1603	GL-5749
GL-159	GL-833-A	GL-1612	GL-5750
GL-169	GL-835	GL-1613	GL-5751
GL-203-A	GL-837	GL-1614	
GL-204-A	GL-838	GL-1619	GL-5814
GL-207	GL-842	GL-1620	GL-5824
GL-211	GL-843	GL-1621	GL-8000
GL-242-C	GL-845	GL-1622	GL-8002
FP-265	GL-849	GL-1623	GL-8002-R
FP-285	GL-851	GL-1624	GL-8005
GL-473	GL-858	GL-1625	GL-8025-A
GL-592	GL-862-A	GL-1629	GL-9001
GL-800	GL-880	GL-1633	GL-9002
		GL-1851	GL-9003

THYRATRONS

GL-2D21	GL-678
GL-3C23	GL-884
FG-27-A	GL-885
FG-81-A	GL-2050
FG-97	GL-5544
FG-98-A	GL-5545
FG-105	GL-5557/FG-17
FG-154	GL-5559/FG-57
FG-172	GL-5560/FG-95
FG-178-A	GL-5632
GL-393-A	GL-5662
GL-414	GL-5663
GL-502-A	GL-5720/FG-33
GL-627	GL-5728/FG-67
GL-672-A	GL-5830/FG-41

VACUUM CAPACITORS

GL-1L21	GL-1L31
GL-1L22	GL-1L32
GL-1L23	GL-1L33
GL-1L24	GL-1L36
GL-1L25	GL-1L38

GENERAL ELECTRIC

CATHODE RAY TUBES • KENOTRONS • PHOTOTUBES

GL-2AP1-A
GL-2BP1
GL-3AP1-A
GL-3BP1-A
GL-3KP1

GL-3MP1
GL-5BP1-A
GL-5CP1-A
GL-5CP7-A
GL-5FP14

GL-5UP1
GL-7BP1
GL-7BP7-A
GL-12DP7-A

GL-914 -A

GL-2B22
GL-2B23
2X2-A
5R4-GY

GL-217-C
GL-218
GL-3B24
FP-400
GL-411

GL-836
GL-1616
GL-1641
GL-5625/KC-4
GL-5741/FP-85-A

GL-8013-A
GL-8020
GL-9004
GL-9005
GL-9006

GL-1P21
GL-1P29/FJ-401
GL-1P37
GL-1P39
GL-1P40
PJ-22
GL-441
GL-868/PJ-23
GL-917
GL-918
GL-919
GL-920
GL-921
GL-922
GL-923
GL-927
GL-929
GL-930
GL-931-A
GL-935
GL-5581

PHANOTRONS • GLOW TUBES • BALLAST TUBES

FG-166
GL-266-B
FG-280

GL-575-A
GL-673
GL-816
GL-867-B
GL-866-A

GL-869-B
GL-870-A
GL-872-A
GL-5558/FG-32
GL-5561/FG-104
GL-8008

GL-OA2
GL-OA3
GL-OB2
GL-OB3
GL-OC3

GL-OD3
GL-874

GL-5620/FB-50
GL-5621/B-6
GL-5622/B-25
GL-5623/B-47
GL-5624/B-46

VACUUM SWITCHES • PHASITRONS • VACUUM GAGES

GL-1521
GL-5626/FA-15
GL-5627/FA-6

GL-2H21
GL-5593

GL-5628/FA-13
GL-5629/FA-14

IGNITRONS

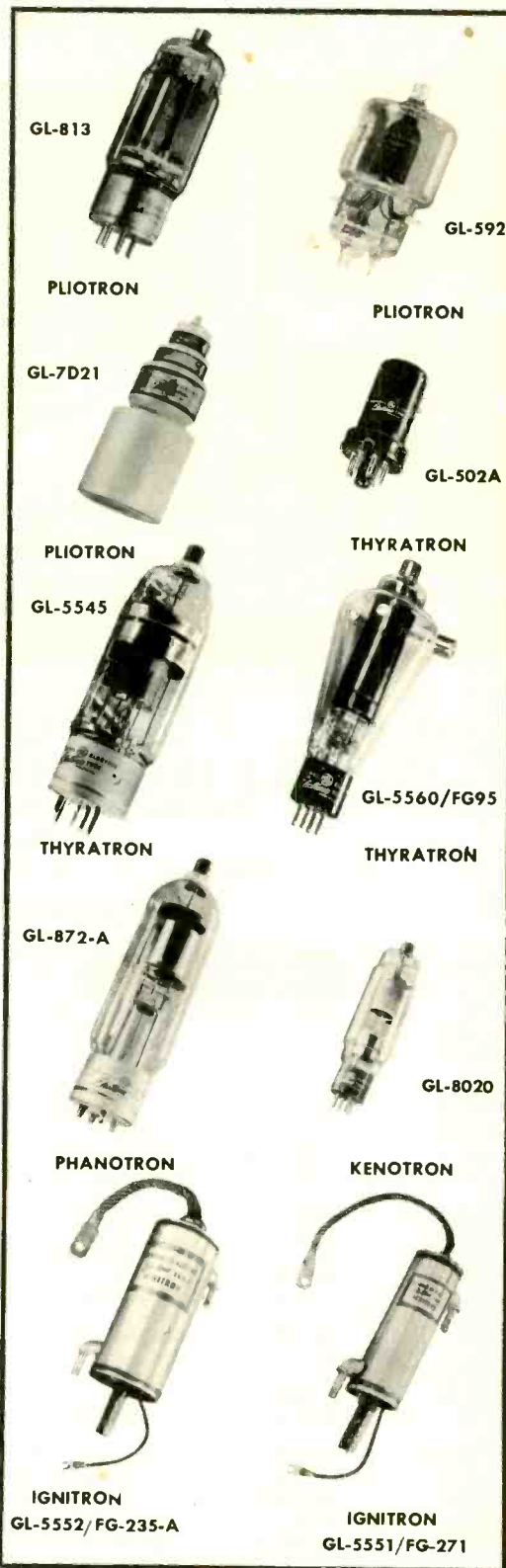
GL-5550/GL-415
GL-5551/FG-271

GL-5552/FG-235-A
GL-5553/FG-258-A
GL-5822

GL-506
GL-5779
GL-5554/FG-259-B
GL-5555/FG-238-B
GL-5630

Welding Control Types*	MAXIMUM RATINGS			
	Kva Demand	Corresponding Average Anode Current, Amp	Maximum Average Anode Current, Amp	Corresponding Kva Demand
GL-5550/GL-415	300	12.1	22.4	100
GL-5551/FG-271	600	30.2	56.0	200
GL-5552/FG-235-A	1200	75.6	140	400
GL-5553/FG-258-A	2400	192.0	355	800
GL-5822 ^o	424	20	70	188

*Ratings are for voltages of 600 volts rms and below. Ignitor requirements for all welding-control types are 200 volts and 30 amperes.
^o For frequency-changer welding control.



GENERAL ELECTRIC

ELECTRONIC TUBE MANUALS . . .



. . . complete data available on every G-E tube! Designed for and by technical men, the new G-E Electronic Tube Manuals pictured to the left are complete in every detail. They contain comprehensive data on the electrical, mechanical, and performance characteristics of every G-E tube type. Let their easy-to-read graphs and tube outlines help to solve your application problems. For prices and further information write Electronics Department, General Electric Company, Schenectady 5, N. Y.

Write G-E TUBE DIVISION, SCHENECTADY 5, N. Y. for complete details or Bulletins

GENERAL ELECTRIC

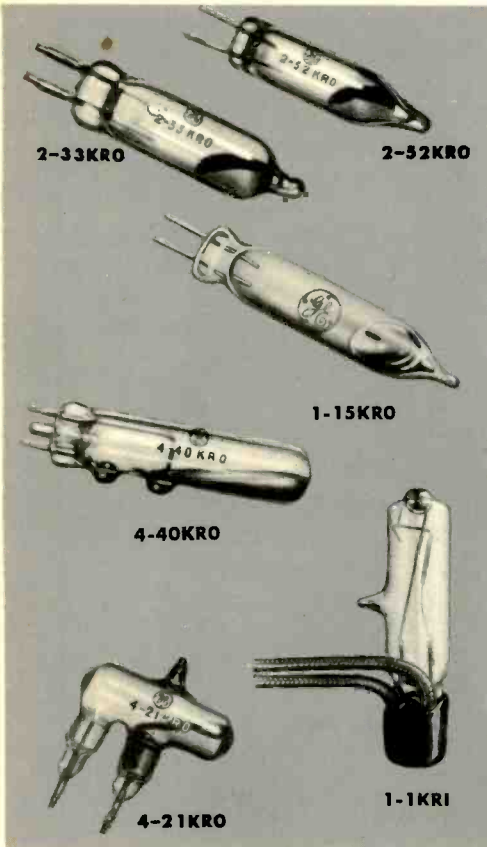
KON-NEC-TOR MERCURY SWITCHES

Most KON-NEC-TORS are made of heat resisting Pyrex brand glass with current conducted to mercury by tungsten lead-in wires. The small force necessary to tilt a KON-NEC-TOR, wherever available, will cause it to operate positively and silently. Types are also available which are operated by a magnetic field from either a permanent or an electro magnet. Chart on their characteristics is given below and engineering service is available to all users.

GENERAL INFORMATION

Type	Switching Action	Max. Height	Max. Length	Max. Diameter	Lead Length (Inches)	Holder Clip #	Average Weight in Grams	Internal Resistance in Ohms*	Total Movement Required in degrees
1-1KR1	SPST N. Open	—	2-1/2	0.562	5-2/4	4839	10	.25	Magnetically Actuated
1-2KR1	SPST N. Closed	—	2-1/2	0.562	5-3/4	4839	10	.25	
1-15KR0	SPST	—	1-1/2	0.300	—	—	2.5	0.022		14
2-52KR1	SPST	—	1-1/2	0.406	7	6601	5	0.05	15
2-33KR1	SPST	—	1-7/8	0.531	7-1/2	6601	8	0.006	15
2-25KR1	SPST	—	2-1/8	0.656	7-1/2	4839	14	0.003	14
2-36KR1	SPDT without neutral	—	2-3/4	0.625	7-1/2	6602	30	0.007	14
4-19KR1	SPDT without neutral	1-49/64	1-1/2	0.480	8	4838	41	0.006	30
4-21KR1	SPST	1-49/64	1-1/2	0.480	8	4838	28	0.006	20
4-24KR1	SPDT	1-49/64	2-11/32	0.480	8	4838	41	0.007	20
4-40KR1	SPST	11/16	2-3/4	0.625	7-3/4	4839	28	0.008	15
7-19KR1	SPDT without neutral	1-57/64	2-13/16	0.550	8	4839	86	0.004	20
7-21KR1	SPST	1-57/64	2-1/2	0.550	8	4839	57	0.004	15
7-24KR1	SPDT with neutral	1-57/64	3-1/8	0.550	8	4839	71	0.005	20

The type number ending designates type of lead attached to the Kon-Nec-Tor. KR1 means standard leads are attached. KR0 means the Kon-Nec-Tor is furnished without leads.
*Excluding leads.



ELECTRICAL RATINGS

TYPE	VOLTAGE	MAXIMUM CURRENT RATING—AMPERES						MOTOR RATINGS—HORSEPOWER				
		Non-Inductive Circuit		Inductive Circuit		Incandescent Lamp Circuit		D-C	A-C 60 Cycles			
		A-C	D-C	A-C	D-C	A-C	D-C		Split-Phase	Capacitor	Repulsion-Induction	2 and 3 Phase
1-1KR1 1-2KR1	{ 125 250	0.3 0.15	0.15 0.08	— —	— —	— —	— —	— —	— —	— —	1/60 1/60	— —
1-15KR0	{ 8 125	5 0.100	5 0.100	— —	— —	— —	— —	— —	— —	— —	— —	— —
2-52KR1	{ 8 125 250	5 2 1	5 1 0.5	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —
2-33KR1	{ 125 250	3 2	2 1	3 2	• •	1 1	1 1	•• ••	1/20 1/10	—	1/12 1/8	•• ••
2-25KR1 2-36KR1	{ 125 250 550	5 3 1	3 1.5 ••	5 3 1	• • ••	1 1 1	1 1 ••	•• •• ••	1/12 1/8	1/12 1/8	1/8 1/8	•• •• —
4-21KR1 4-19KR1 4-24KR1 4-40KR1	{ 125 250 550	15 10 8	10 5 ••	15 10 8	• • ••	10 10 5	10 5 ••	1/4 1/4 ••	1/4 1/4 —	1/2 1	3/4 1 1/2	3/4 1 1/2 3
7-21KR1 7-19KR1 7-24KR1	{ 125 250 550	25 20 15	20 10 ••	25 20 15	• • ••	20 20 15	20 10 ••	1/2 1/2 ••	1/4 1/4 —	1 2	1 1/2 3	1 2 5

* No specified rating can be stated. Capacity is lower than on noninductive circuits.
† Ratings following this bracket apply to all types listed in this individual group.

•• Not recommended for this service.

MOUNTINGS

Because proper mounting is essential to the satisfactory performance of these KON-NEC-TORS, clips of tempered cadmium plated steel are provided. These are sufficiently flexible to securely hold the somewhat variable diameters characteristic of glass tubes. The use of a drop of adhesive at each clip contact is recommended, to insure the KON-NEC-TOR remaining in the correct mounting plane.



TUBE SOCKETS AND WATER JACKETS

Designed and built for G-E Tubes, they have the same high quality and performance characteristics. Specify them for increased assurance of superior performance and tube life. Available in all popular types.



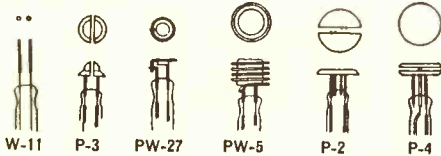
GENERAL ELECTRIC

NEON GLOW LAMPS

The unique characteristics of G-E Neon Glow Lamps recommend them for a variety of uses in radio and electronic devices . . . as indicators, voltage regulators, pilot lights and test lamps. They have • Distinctive orange-red glow — no colored cover glass needed • Dependable performance and long life — rated at 3,000 hr (In excess of 25,000 hr. for NE-2) • Very low current consumption — less than 1/2 ma for smallest lamp • Variety of sizes and wattages • High resistance to vibration, shock • Produce practically no heat • Nearly flat V-amp characteristics • Lamp life not seriously effected by voltage variations.

ELECTRODE SHAPES

NOTE—Electrodes not to scale

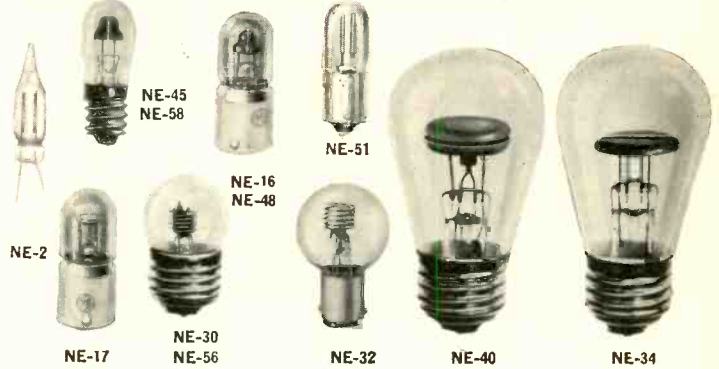


BASE DESIGNATIONS



SCREW BASE LAMPS . . . Required series resistor mounted within base. See values marked "IN" in column "Series Resistance." Lamps may be applied to higher circuit voltages by use of suitable external resistors.

BAYONET BASE LAMPS . . . External means must be provided to limit current to normal amount. External resistors, to be supplied by user, should be of the values marked "EX" in column "Series Resistance" for rated volts.



CLEAR NEON LAMPS														
Lamp Number	NE-2	NE-51	NE-48	NE-16	NE-45	NE-17	NE-57	NE-30	NE-32	NE-56	NE-34	NE-36	NE-42	NE-58
Watts, Nominal	1/25	1/25	1/4	1/4	1/4	1/4	1/4	1	1	1	2	2	3	1/2
Volts (Circuit)	105-125	105-125	105-125	105-125	105-125	105-125	105-125	105-125	105-125	210-250	105-125	105-125	105-125	210-250
★Bulb	T-2	T-3 1/4	T-4 1/2	T-4 1/2	T-4 1/2	T-4 1/2	T-4 1/2	G-10	G-10	G-10	S-14	S-14	S-14	T-4 1/2
Base	Unbased (Wire Term.)	S. C. Bay. Min.	D. C. Bay. Cand.	D. C. Bay. Cand.	Cand. Screw	D. C. Bay. Cand.	Cand. Screw	Med. Screw	D. C. Bay. Cand.	Med. Screw	Med. Screw	Sk. D. C. Bay. Cand.	Sk. D. C. Bay. Cand.	Cand. Screw
Max. Over-all Length, Inches	1 1/4	1 3/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2 1/4	2 1/4	2 1/4	3 1/4	3 1/4	3 1/4	1 1/2
Electrode Shape	W-11	W-11	P-3	P-3	P-3	PW-27	PW-27	PW-5	PW-5	PW-5	P-2	P-2	P-4	P-3
Approx. Starting Voltage (A.C.)	85	85	85	—	85	85	85	80	80	80	80	80	80	85
Approx. Starting Voltage (D.C.)	90	90	90	⊕	90	70	70	85	85	85	85	85	85	90
Series Resistance	200000 EX	200000 EX	30000 EX	30000 EX	30000 IN	30000 EX	30000 IN	4800 IN	4800 EX	33000 IN	3600 IN	3500 EX	2200 IN	100000 IN
Package Quantities	100	10	10	10	10	10	10	10	10	10	10	10	10	10
Unit Standard	1000	100	100	100	100	100	100	100	100	100	100	100	100	100
List Price and Tax Symbol	\$0.08 T	\$0.10 T	\$0.35 T	\$0.42 N	\$0.40 T	\$0.45 T	\$0.40 T	\$0.40 T	\$0.45 T	\$0.40 T	\$0.50 T	\$0.55 T	\$0.60 T	\$0.65 T

★ Bulbs are designated by a letter to indicate shape and a figure to indicate the approximate diameter in eighths of an inch.

- Applies to a new lamp.
- The 1-1/16" dimension is for glass parts only, the lamp has wire terminals which extend 13/16".
- Meets JAN-1A specifications for 991. Special marking JCG-991 supplied at small extra charge.
- Designed for 67-87 volts, D.C. (D.C. operating voltage at 1.5 milliamperes, 53-65 volts.)
- Center electrode connected to base shell.
- NE-34 and NE-40 are supplied with red sprayed finish at additional charge of 5¢ each, list.
- D.C. starting voltage is for lamp connected so that center electrode is negative.

NOTE — T — Following List Price indicates subject to Federal Tax N — Nontaxable.

RADIO DIAL LAMPS

Because of the vibration conditions under which G-E radio dial lights must operate, particular care is given to their design and manufacture. Low voltage filaments are designed to vibrate without damage and are

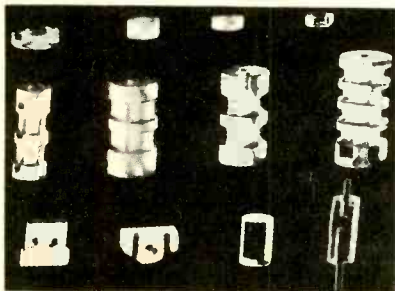
secured by a shake-proof joint. They feature . . . Dependable, trouble-free performance • High level of maintained light output • Low current consumption • Long life.

Lamp Number	40	41	42	43	44	45	46	47	48	49	1490	10C7	10C7DC
Volts	6-8	2.5	3.2	2.5	6-8	3.2	6-8	6-8	2	2	3.2	115-25	115-25
Amps	0.15	0.50	0.35	0.50	0.25	0.35	0.25	0.15	0.06	0.06	0.16	10 watts	10 watts
#Bulb	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	T-3 1/4	C-7	C-7
Base	Min. Screw	Min. Screw	Min. Screw	Min. Bay.	Min. Bay.	Min. Bay.	Min. Screw	Min. Bay.	Min. Screw	Min. Bay.	Min. Bay.	Cand. Screw	D.C. Bay.
Bead Color	Brown	White		White	Blue		Blue	Brown	Pink			—	—
Price	\$0.10T	\$0.10T	\$0.12T	\$0.10T	\$0.10T	\$0.12T	\$0.10T	\$0.10T	\$0.15T	\$0.15T	\$0.11T	\$0.15T	\$0.22T

Bulbs are designated by a letter to indicate shape and a figure to indicate the approximate diameter in eighths of an inch.

T After price indicates Federal Excise Tax will be billed as a separate item at 6.3% of list price.

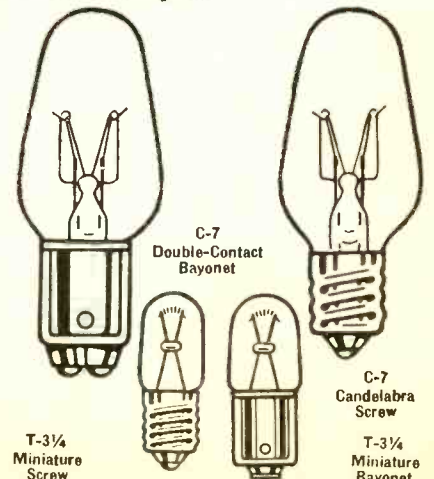
FUSED QUARTZ INSULATORS FOR CRITICAL ELECTRONIC WORK



Only Fused Quartz Has ALL These Characteristics • stands high temperature • high resistance to thermal shock • low power loss • low surface leakage • high dielectric strength • non-hydroscopic • stands high current flashovers without failure • high crushing strength . . .

can be machined to accurate tolerances.

Fused quartz, both clear and translucent, is manufactured by the General Electric Company in rod, tubing and ingot form. This material can also be fabricated into functional shapes to meet most individual requirements. For engineering service on your specific problem, write the G-E Lamp Dept.



Write G-E LAMP DEPARTMENT, NELA PARK, CLEVELAND 12, OHIO, for complete details or Bulletins

GENERAL ELECTRIC ELECTRIC

GENERAL ELECTRIC SALES OFFICES

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Atlanta 3, Ga.....	187 Spring St., N.W.	Houston 1, Tex.....	1312 Live Oak St.	Roanoke 11, Va.....	101 S. Jefferson St.
Bakersfield, Calif.....	211 E. 18th St.	Indianapolis 4, Ind.....	110 N. Illinois St.	Rochester 4, N. Y.....	89 East Ave.
Baltimore 1, Md.....	111 Park Ave.	Jackson, Mich.....	120 W. Michigan Ave.	Rockford, Ill.....	110 S. First St.
Bangor, Me.....	77 Central St.	Jackson 1, Miss.....	203 W. Capital St.	Rutland, Vt.....	38 1/2 Center St.
Beaumont, Tex.....	398 Pearl St.	Jacksonville 2, Fla.....	700 E. Union St.	Sacramento 14, Calif.....	626 Forum Bldg.
Binghamton, N. Y.....	19 Chenango St.	Jamestown, N. Y.....	2 Second St.	Saginaw, Mich.....	128 N. Franklin St.
Birmingham 3, Ala.....	1804-7th Ave., N.	Johnson City, Tenn.....	334 E. Main St.	St. Louis 2, Mo.....	112 N. Fourth St.
Bluefield, W. Va.....	Appalachian Bldg.	Johnstown, Pa.....	841 Oak St.	Salt Lake City 9, Utah.....	200 S. Main St.
Boston 1, Mass.....	140 Federal St.	Kansas City 6, Mo.....	106 W. Fourteenth St.	San Antonio 5, Tex.....	310 S. St. Mary's St.
Buffalo 3, N. Y.....	535 Washington St.	Knoxville 08, Tenn.....	602 S. Gay St.	San Diego 1, Calif.....	861 Sixth Ave.
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Charlotte 1, N. C.....	200 S. Tryon St.	Louisville 2, Ky.....	455 S. Fourth St.	Shreveport 90, La.....	803 Jordan St.
Charlottesville, Va.....	123 E. Main St.	Madison 3, Wis.....	16 N. Carroll St.	Sioux City 13, Iowa.....	507 Sixth St.
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Chicago 80, Ill.....	840 S. Canal St.	Medford, Ore.....	205 W. Main St.	South Bend 1, Ind.....	112 W. Jefferson Blvd.
Cincinnati 2, Ohio.....	215 W. Third St.	Memphis 3, Tenn.....	8 N. Third St.	Spokane 8, Wash.....	South 162 Post St.
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Columbus 15, Ohio.....	40 S. Third St.	Minneapolis 2, Minn.....	12 S. Sixth St.	Stockton, Calif.....	11 S. San Joaquin St.
Corpus Christi, Tex.....	108 1/2 N. Chaparral St.	Mobile 13, Ala.....	54 St. Joseph St.	Syracuse 2, N. Y.....	113 S. Salina St.
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El Paso, Tex.....	109 N. Oregon St.	Oklahoma City 2, Okla.....	119 N. Robinson St.	Waterloo, Iowa.....	206 W. Fourth St.
Erie 2, Pa.....	10 E. Twelfth St.	Omaha 2, Nebr.....	409 S. 17th St.	Wheeling, W. Va.....	40 14th St.
Eugene, Ore.....	29 W. Eleventh St.	Pasca, Wash.....	421 W. Clark St.	Wichita 2, Kan.....	200 E. First St.
Evansville 19, Ind.....	123 N. W. Fourth St.	Peoria 2, Ill.....	410 Main St.	Williamston, N. C.....	City Hall
Fairmont, W. Va.....	511 Jacobs Bldg.	Philadelphia 2, Pa.....	1405 Locust St.	Wilmington, Del.....	1326 N. Market St.
Fergus Falls, Minn.....	102 W. Lincoln St.	Phoenix, Ariz.....	303 Luhrs Tower	Worcester 8, Mass.....	507 Main St.
Fort Wayne 2, Ind.....	127 W. Berry St.	Pittsburg, Kan.....	508 W. Euclid Ave.	York, Pa.....	56 N. Harrison St.
Fort Worth 2, Tex.....	408 W. Seventh St.	Pittsburgh 22, Pa.....	535 Smithfield St.	Youngstown 5, Ohio.....	272 E. Indianola Ave.
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Grand Rapids 2, Mich.....	148 Monroe Ave., N.W.	Portland 7, Ore.....	920 S. W. Sixth Ave.	For Hawaii.....	W. A. Ramsay, Ltd., Honolulu, T. H.

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Baltimore 1, Md.....	101 No. Charles St.	Detroit 26, Mich.....	1249 Washington Blvd.	Philadelphia 2, Pa.....	1405 Locust St.
Boston 10, Mass.....	50 High St.	Detroit 2, Mich.....	280 Fisher Bldg.	Pittsburgh 19, Pa.....	238 W. Carson St.
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Chicago 4, Ill.....	230 So. Clark St.	Los Angeles 13, Calif.....	601 W. Fifth St.	(Oakland 7, Calif.).....	1614 Campbell St.
Cincinnati 2, Ohio.....	36 E. Fourth St.	Memphis 7, Tenn.....	1179 Morehead St.	St. Louis 1, Mo.....	710 No. Twelfth Blvd.
Cleveland 14, Ohio.....	1320 Williamson Bldg.	Milwaukee 3, Wis.....	161 W. Wisconsin Ave.	Seattle 4, Wash.....	202 Hoge Bldg.
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		Newark 2, N. J.....	744 Broad St.		

CHEMICAL DEPARTMENT

Pittsfield, Mass.

Bloomfield, N. J.....	5 Lawrence St.	Coshocton, Ohio.....	Coshocton, Ohio	Philadelphia 2, Pa.....	1405 Locust St.
Boston 1, Mass.....	140 Federal St.	Dayton 2, Ohio.....	601 E. Third St.	Pittsburgh 6, Pa.....	6519 Penn Ave.
Chicago 80, Ill.....	840 S. Canal St.	Detroit 14, Mich.....	9101 E. Jefferson Ave.	Pittsfield, Mass.....	1 Plastics Ave.
Cincinnati 2, Ohio.....	215 W. Third St.	Los Angeles 15, Calif.....	1233 S. Hope St.	Schenectady 5, N. Y.....	1 River Rd.
Cleveland 14, Ohio.....	1105 Chester Ave.	Meriden, Conn.....	69 Colony St.	Syracuse 2, N. Y.....	113 S. Salina St.
		New York 22, N. Y.....	570 Lexington Ave.	Waterford, N. Y.....	Mechanicville Rd.

TUBE DIVISION

Schenectady 5, N. Y.

Atlanta 3, Ga.....	187 Spring St., N.W.	Dallas 2, Texas.....	Norman Bldg., Ross & Lamar Sts.	Minneapolis, Minn.....	12 S. Sixth St.
Boston 1, Mass.....	140 Federal St.	Denver 2, Colo.....	650 17th St.	New York 22, N. Y.....	570 Lexington Ave.
Chicago 54, Ill.....	The Merchandise Mart, Room 1122	Detroit 26, Mich.....	3037 Book Tower	Philadelphia 2, Pa.....	1405 Locust St.
Cincinnati 2, Ohio.....	215 W. Third St.	Houston, Texas.....	812 Electric Bldg.	Salt Lake City, Utah.....	200 S. Main St.
Cleveland 4, Ohio.....	710 Williamson Bldg., Euclid Ave. & Public Square	Kansas City 6, Mo.....	106 W. 14th St.	San Francisco 6, Calif.....	235 Montgomery St.
		Los Angeles 14, Calif.....	Suite 1300-1 Security Title Ins. Bldg., 530 W. 6th St.	Seattle 11, Wash.....	710 2nd Ave.
				Washington 5, D. C.....	806 15th St., N.W.

ELECTRONICS DEPARTMENT

Electronics Park, Syracuse, N. Y.

Atlanta 3, Ga.....	187 Spring St., N.W.	Cleveland 14, Ohio.....	710 Williamson Bldg., Euclid Ave. & Public Square	New York 22, N. Y.....	570 Lexington Ave.
Boston 1, Mass.....	140 Federal St.	Dallas 2, Texas.....	Norman Bldg.	Philadelphia 2, Pa.....	1405 Locust St.
Chicago 54, Ill.....	The Merchandise Mart, Room 1122	Kansas City 6, Mo.....	106 W. 14th St.	San Francisco 6, Calif.....	235 Montgomery St.

CONSTRUCTION MATERIALS

Bridgeport 8, Conn., 1285 Boston Ave.

Boston 10, Mass.....	136 Federal St.	Cleveland 14, Ohio.....	925 Euclid Ave.	New York 22, N. Y.....	570 Lexington Ave.
Charlotte, N. C.....	1300 Berryhill	Houston 20, Texas.....	11 Japhet St.	Philadelphia 2, Pa.....	1405 Locust St.
Chicago 80, Ill.....	840 South Canal St.	Kansas City 6, Mo.....	106 W. 14th St.	St. Louis 8, Mo.....	3928 Lindell Blvd.
		Los Angeles 58, Calif.....	3000 E. 46th St.	Seattle 11, Wash.....	710 Second Ave.



NEW AND COMPLETE SHURE LINE OF OUTSTANDING MICROPHONES AND PICKUPS

SHURE SUPER-CARDIOID DYNAMIC MICROPHONES

The new Shure Super-Cardioid Dynamic Microphones are Multi-Impedance Microphones—giving you three microphones in one. Reduces your inventory, increases your sales through rapid turn-over. Model "556" is specially designed for Broadcasting. Held within extremely close tolerances in frequency response. Features internally isolated cartridge and external vibration absorbing unit. Model "55" is a "General Purpose," high-quality dynamic. It has the same mechanical properties as "556" with the exception of the external vibration absorbing unit.

Following is technical data covering both models:

Reduces reflections and reverberation—decreases random noise pickup by 73%. Smooth response from 40 to 15,000 cycles over wide angle at front—dead at rear. Single unit construction accomplished through Shure "Uniphase" principle (Patented). Floating moving coil system. Swivel head. Standard 3/8"-27' thread. Convenient terminals for attaching longer length cables. Case 4 1/4" high, 3 3/4" wide, 3 1/2" deep.



"556" SUPER-CARDIOID
(For Broadcast)

MODEL	CABLE	SHPG. WEIGHT	CODE	LIST PRICE
556	7 ft.	3 1/2 lbs.	RUMUB	\$92.50
55	25 ft.	4 lbs.	RUMUL	\$67.50

Multi-Impedance Switch on Models "55" and "556"

IMPEDANCE TABLE	OUTPUT LEVEL
L—35-50 ohms	56.1 db below 1 Milliwatt per 10 bar signal
M—150-250 ohms	56.8 db below 1 Milliwatt for 10 bar signal
H—High	57.5 db below 1 volt per bar



"UNIDYNE" SUPER-CARDIOID DYNAMIC
(For General Purpose)



MODEL "51"
SONODYNE

"SONODYNE"

MULTI-IMPEDANCE DYNAMIC

Features a Multi-Impedance switch for Low, Medium, or High Impedance. High-output of 53 db below 1 volt per dyne per sq. cm. Wide-range frequency response (60-10,000 c. p. s.) and semi-directional pickup. Moving coil unit. Satin-Chrome case. Ideal for general purpose use. Shipping weight 3 1/2 lbs. 20 ft. cable.

Model "51" Code: RUSON List Price: \$39.75

"MONOPLEX"

SUPER-CARDIOID CRYSTAL

Same phase-shifting network as used in Shure "Broadcast" microphones. Reduces feedback 73%! Ideal for high quality public address, recording, etc. Frequency response 60 to 10,000 c. p. s. Output level -53 db. Special metal-seal crystal for long life in humid areas. Built-in cable connector. Satin chrome finish. Shipping weight 2 1/4 lbs. Supplied with 20' cable.

Model "737A" Code: RUMON List Price: \$39.75



MODEL "737A"
MONOPLEX



MODEL "520"
GREEN BULLET

"GREEN BULLET"

CONTROLLED RELUCTANCE

This new magnetic microphone is designed to provide quality music and speech reproduction at moderate cost. Features high sensitivity, impedance flexibility without a transformer. Output level -52 db, frequency response 100 to 7,000 cycles. Immune to high temperatures and humidity. Available in high impedance. Special green metallic finish. Cable length 15'. Shipping weight 1 1/2 pounds.

Model "520" Code: RUDAL List Price: \$16.50

"HERCULES"

CONTROLLED RELUCTANCE MICROPHONE

A rugged hand-held magnetic unit. Provides the clear reproduction and high output long needed for public address, communications and recording at an amazingly low price! Ideal for general-purpose use in humid areas. High impedance obtained without the use of a transformer. Frequency response 100 to 7,000 c.p.s. Furnished with 7' fabric covered cable.

Model "510C" Code: RUTUF List Price: \$12.95

Model "510S" (With Switch) Code: RUTUS List Price: \$14.95

Also available as a low-cost crystal microphone, the new Shure "Rex". See catalog 159.



"510" SERIES
HERCULES

SHURE "VERTICAL DRIVE" CRYSTAL PHONOGRAPH PICKUPS

The Shure "Vertical Drive" Crystal Pickups are ideal for the reproduction of the new fine-groove vinylite and high quality standard groove recordings (33 1/2 RPM, 45 RPM, Standard 78 RPM records). They provide the high needle compliance and the maximum fidelity needed to reproduce the full frequency range of the better records. The "Vertical Drive" also features high output, low tracking force, and finger-tip needle replacement. The 901D "All-Purpose" Pickup is provided with .0027" Osmium and .001" Sapphire point "Muted Stylus" needles. The high needle compliance of the Model 901D eliminates the need for shifting of weight or needle force when playing both fine-groove and standard records with one cartridge, such as required with most other turn-over pickups.

MODEL	OUTPUT at 1000 CPS.	RESPONSE TO	NEEDLE SCREW	SHIP. WT.	CODE	LIST PRICE
901D	(MG) 1.0	6,000 CPS	KNURLED NUT	12 oz.	RUZEL	\$16.25
	(STD) 1.1					
901MG	1.0	10,000 CPS	KNURLED NUT	12 oz.	RUZUG	12.75

SHURE REPLACEMENT CARTRIDGES—"9-OUT-OF-10" PACK

Below is technical data on three Shure lever type cartridges—the standardized replacement line that will handle nine out of ten Crystal Cartridge replacements. A copy of the Shure Replacement Chart is in each carton. These cartridges feature low needle force, high needle compliance, crystal shock immunity, pin-tip terminals. These cartridges are not merely adequate replacements—they are acoustic advancements. MODEL: W50B CODE: RUPAL LIST PRICE \$18.50

MODEL	REPLACES SHURE	REPLACES	MIN. NEEDLE FORCE	OUTPUT VOLTAGE	SHIP. WT.	CODE	LIST PRICE
W57A	P87, P90D, P93S, P94, P94B	Any Standard Flat-Type Cartridge of Equal Output	3/4 oz.	1.6	3/4 oz.	RUGLA	\$5.55
W58A	P87S, P90S, P92B, P93S, W42A		1 oz.	1.6	3/4 oz.	RUGLU	5.55
*W60B	P30 Series, W57AN		1 oz.	1.6	3/4 oz.	RUSID	7.50

*With Osmium Point Needle

"TROPIC-PAC"—FOR HUMID OR ARID REGIONS

The new Shure "Tropic-Pac" is a crystal cartridge replacement package for Southern States and humid areas in sub-tropical countries. Contains W58HS and W60HS "Humi-Seal" Rochelle Salt crystal cartridges that last longer and operate with greater efficiency than any other Rochelle Salt crystal cartridges of comparable output. The crystals in both cartridges are encased in a special plastic and metal wrap—for long life. These cartridges are Rochelle Salt Crystal Cartridges—do not confuse with PN-type cartridges. No circuit compensation is necessary! Model: "W50T" Code: RUPAT List Price: \$15.00

Shure Microphones and Pickups Manufactured Under Shure Patents Issued and Pending—Crystal Products Licensed Under Patents of the Brush Development Co.



SHURE BROTHERS, INC.

Microphones & Acoustic Devices

225 W. HURON ST., CHICAGO 10, ILL. U. S. A. • CABLE ADDRESS: SHUREMICRO

Kinney High Vacuum Pumps

Mechanical, Oil Sealed

Almost without exception in the United States and in an increasing number of plants abroad, Kinney High Vacuum Pumps are standard equipment for exhausting lamps and tubes. They also provide low absolute pressures for sintering alloy metals, coating lenses, refining rare metals and producing blood plasma, penicillin, and other drugs. They are used effectively wherever a dry vacuum pump can be applied, including cyclotron evacuation and atom smashing. Kinney Vacuum Pumps have been perfected with the engineering experience gained from many thousands of installations.

Description. The mechanism consists of three moving parts: (1) the shaft on which is keyed an eccentric, (2) the rotating plunger with hollow arm which moves freely in (3) the slide pin. There is one set of all these parts in the Simplex Model VSD Pump, and one shaft with two sets of parts operating in parallel in the Duplex Model DVD Pumps, with cams set 180° apart. The Compound Model CVD Pump has two plungers in series, connected to an oil chamber between stages. The unique method of automatic lubrication results in a no-clearance pump of extremely long life since plungers have no contact with cylinder surfaces. Simple and efficient in design, these pumps have established an impressive record for dependability and low cost operation.

SINGLE STAGE VACUUM PUMP Models VSD and DVD

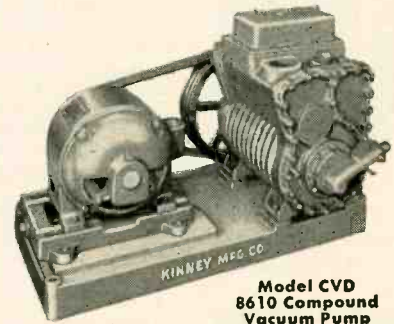
Eight pump sizes cover a capacity range from 13 to 702 cu. ft. per min. with motors from 1/2 to 40 h.p., respectively. The three smallest sizes are furnished water cooled or air cooled; all larger sizes are furnished water cooled. Single Stage Pumps on a blank test produce low absolute pressures of 10 microns (.01 mm Hg.) or better.



Model VSD
Single Stage
Vacuum Pump

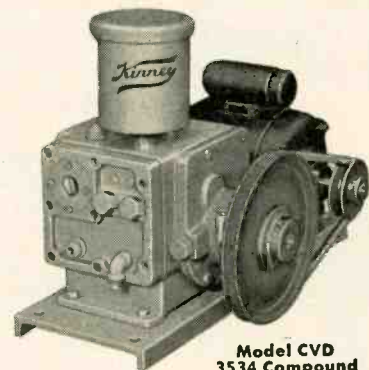
COMPOUND VACUUM PUMP, Model CVD

Three sizes of Compound Pumps are available in capacities of 4.9, 15.2 and 46 cu. ft. per min., respectively. The working mechanism is similar to the Single Stage but the two cylinders are connected in series. The Compound Pump has an air cooled casing of unique design and special provision for oil sealing and lubricating the high vacuum working parts. Compound pumps test to low absolute pressures of 0.5 micron (.0005 mm Hg.) or better.



Model CVD
8610 Compound
Vacuum Pump

The latest addition to the line of Kinney Compound Pumps is the Model CVD 3534 shown at right. This new pump is small and compact — less than 16" high. It has a free air displacement of 4.9 cu. ft. per min. and operates with 1/3 h.p. motor. Simple, rugged construction assures utmost reliability in the consistent production of high vacuum.



Model CVD
3534 Compound
Vacuum Pump

KINNEY VACUUM TIGHT VALVES)

Kinney Vacuum Tight Valves greatly facilitate testing installations at low absolute pressures. In these valves, special metal bellows are used to eliminate the leakage at the valve stem which occurs with the usual stuffing box. Two types of valves are available — cast steel or bronze. Cast steel valves utilize stainless steel Vacuum Lastic bellows having a wide flexing range. They are available in sizes 1", 1 1/2", 2", 3", and 4" — bronze valves 1", 1 1/2", 2", and 3". Write for Bulletin 2448.

Ask for Kinney High Vacuum Pump Bulletin V45.

KINNEY MANUFACTURING COMPANY

3565 Washington St., Boston 30, Mass.

PRODUCTS: Vacuum Pumps, Rotary Liquid Pumps, Bituminous Distributors

Representatives

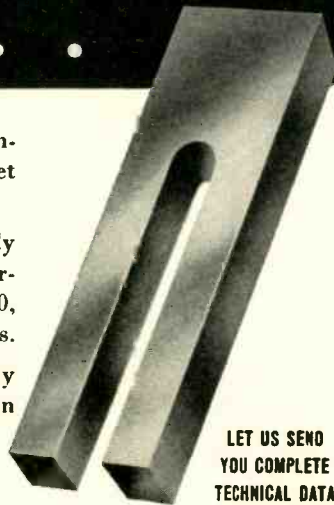
NEW YORK • CHICAGO • CLEVELAND • PHILADELPHIA • LOS ANGELES • SAN FRANCISCO
HOUSTON • NEW ORLEANS • SEATTLE

Tuning Forks for precision frequency control

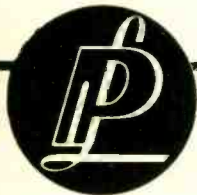
Philamon Laboratories manufactures a complete line of tuning fork resonators to meet your frequency control requirements.

Temperature-compensated and hermetically sealed, the resonators are available in accuracies from 1 part in 3,000 to 1 part in 100,000, for operation over wide temperature ranges.

The resonators may be obtained individually—as a part of compact sub-assemblies—or in completely engineered equipment.



LET US SEND
YOU COMPLETE
TECHNICAL DATA

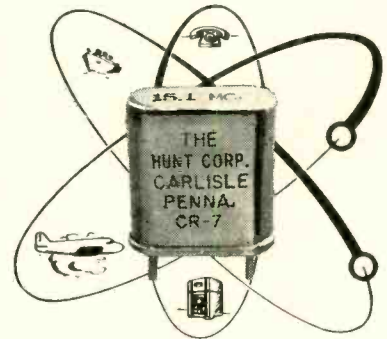


PHILAMON LABORATORIES

5717 Third Avenue, Brooklyn 20, N. Y.

STABILITY

HUNT CR-7 CRYSTAL



Miniature Type CR-7
Crystal Unit

(Illustration is actual size)

THE Hunt
CORPORATION

CARLISLE 2, PENNSYLVANIA

Measure Time **ACCURATELY**

10 MICROSECONDS TO 1 SECOND



**THE AMERICAN
HIGH SPEED CHRONOSCOPE**

Simple, Accurate and Reliable, the Chronoscope indicates significant time intervals directly in milliseconds. Operation is completely automatic and the time indicator does not drift. A few of the varied applications include—relay, contactor and fuse testing, shutter speed and flash lamp timing, automatic system development and human reaction studies. PRICE: \$375. Write for Bulletin 100A.

When time is your problem—Consult us.

AMERICAN CHRONOSCOPE CORPORATION
316 WEST FIRST STREET MOUNT VERNON, N. Y.

TELEPHONE: MOUNT VERNON 4-2030

NOT...

until next year
will you get another

**electronics
BUYERS'
GUIDE**

Don't let it get away
from you.

It's the best source
of buying information
for electronic
and allied products
that has ever
been compiled.

When buying, or requesting product information be sure to mention
ELECTRONICS BUYERS' GUIDE.

For Reliability, I use
OHMITE



BROWN DEVIL RESISTORS

Sturdy, wire-wound, vitreous-enameled resistors for voltage dropping, bias units, bleeders, etc. In 5, 10, and 20-watts; values to 100,000 ohms.



FIXED RESISTORS

Resistance wire is wound over a ceramic core, permanently locked in place, insulated and protected by Ohmite vitreous enamel. In 25, 50, 100, 160, and 200-watt stock sizes; values from 1 to 250,000 ohms.



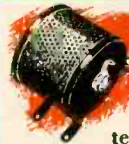
DIVIDOHM RESISTORS

You can quickly adjust these handy vitreous-enameled resistors to the exact resistance you want, or put on taps wherever needed for multi-tap resistors and voltage dividers. In sizes from 10 to 200 watts, to 100,000 ohms.



LITTLE DEVIL* COMPOSITION RESISTORS

Tiny, molded, fixed resistors—individually marked with resistance and wattage rating— $\frac{1}{2}$, 1, and 2-watt sizes, $\pm 10\%$ tol. Also $\pm 5\%$ tol. 10 Ohms to 22 megohms.



DUMMY ANTENNA RESISTORS

For loading transmitters or other r.f. sources. New, rugged, vitreous-enameled units are practically non-reactive within their recommended frequency range. 100 And 250-watt sizes, 52 to 600 ohms, $\pm 5\%$.



MOLDED* COMPOSITION POTENTIOMETER

A high-quality, 2-watt unit with a good margin of safety. Resistance element is solid molded—not a film. The noise level is low and decreases with use.



CLOSE CONTROL RHEOSTATS

Insure permanently smooth, close control. Widely used in industry. All ceramic, vitreous enameled; 25, 50, 75, 100, 150, 225, 300, 500, 750, and 1000-watt sizes.



DIRECTION INDICATOR POTENTIOMETER

Compact, low cost. Used in a simple potentiometer circuit as a transmitting element to remotely indicate the position of a rotary-beam antenna.



HIGH-CURRENT TAP SWITCHES

Compact, all-ceramic, multipoint, rotary selectors for a-c use. Self-cleaning, silver-to-silver contacts. Rated at 10, 15, 25, 50, and 100 amperes. Two or more can be mounted in tandem.



POWER LINE CHOKES

Keep r.f. currents from going out over the power line and causing interference with radio receivers. Also used to stop incoming r.f. interference. Has a ceramic core and moistureproof coating. In 5, 10, and 20 amps.



RADIO FREQUENCY CHOKES

Single-layer wound on low power-factor steatite or bakelite cores, with moistureproof coating. Seven stock sizes for all frequencies, 3 to 520 mc. Two units rated 600 ma, others rated 1000 ma.



NEW OHM'S LAW CALCULATOR

Redesigned! Figures all Ohm's Law problems, including parallel resistance, with one setting of the slide. Also has standard slide rule scale. Send 25c in coin.

*So that these two exceptionally high-quality products will be universally obtainable, Ohmite Manufacturing Company, in co-operation with the Allen-Bradley Company, has arranged for the Type AB (Allen-Bradley Type J) control and Little Devil Molded Composition Resistors (Allen-Bradley Types EB, GB, and HB) to be available from stock at Ohmite distributors.



SEND FOR
CATALOG NO. 40
on Company Letterhead

Provides 96 pages of
engineering information.

Be Right with

OHMITE MANUFACTURING CO.
4975 Flournoy St. Chicago 44, Ill.

OHMITE

Reg. U. S. Pat. Off.

How LORD MOUNTINGS improve product performance



MULTIFLANE MOUNTINGS—

isolate vibration from all directions. Light in weight, small in size, they are widely used to mount electronic units.



PLATE FORM MOUNTINGS—

Standard—Isolate steady vibration. Stable, compact—easily installed. Loads 1/2 to 120 pounds per mount.



PLATE FORM VERTICAL SNUBBING MOUNTINGS—

isolate steady vibration plus severe shock. Loads up to 610 pounds per mount.



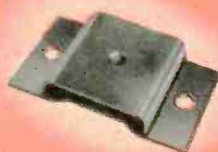
METER MOUNTINGS—

protect small meters and instruments from destructive vibration. One piece construction, easily installed . . . many sizes for most commonly used models.



CHAN-L-MOUNTS—

Ready to use—easy to install. Isolate steady vibration and occasional shock. Extremely soft and sturdy, they give superior isolation.



SHOCKMOUNTS—

absorb shock energy emanating from punch presses, looms, printing presses, etc. Neoprene is bonded to 3/16" steel. Load ratings up to 7500 pounds per mount.



TUBE FORM MOUNTINGS—

Standard—for steady vibration and severe shock. Have great radial stability. Loads from 1/2 to several thousand pounds.



TUBE FORM VERTICAL SNUBBING MOUNTINGS—

isolate steady vibration . . . cushion shock. Good for mobile equipment.



F.H.P. FLEXIBLE COUPLINGS—

have exceptional torsional flexibility . . . accommodate parallel and angular misalignment. Ratings from 1 fiftieth to 1 hp.



M.H.P. FLEXIBLE COUPLINGS—

deflect under torsional load . . . isolate torsional vibration. Removable flexing elements allow couplings to be installed without moving shaft. Ratings up to 100 hp 1750 RPM.

LORD Flexible Couplings accommodate shaft misalignment . . . dampen shock of sudden speed changes . . . protect motors.

LORD Bonded-Rubber Parts solve some of industry's toughest design problems. Valve seats, motor mounts, idler wheels, diaphragms, pin adapters, torsion joints, bearing seals, are a few of the successful applications which have been made and are suggestive of opportunities for improvement of other products.



LORD MANUFACTURING CO., ERIE, PA.

Precision RF Test Equipment

built to the Highest Standards of
QUALITY and ACCURACY!

PRD takes pleasure in presenting a full summary of its test equipment for the entire spectrum from 10 to 40,000 megacycles per second. Each instrument embodies intelligently planned features designed to provide versatility of application with maximum accuracy and dependability over the broadest possible band. In addition, a skilled staff of engineers is available to analyze your requirements and to assist in the application of standard or special components to your test equipment problems. Where accuracy is essential it's good business to specify PRD.



Type 904
VHF-UHF NOISE GENERATOR
 10-1000 mc/s



Type 901 UHF SWEEP
FREQUENCY OSCILLATOR
 470-890 mc/s



Type 584
UHF
FREQUENCY
METER
 70-950 mc/s

COAXIAL COMPONENTS				
ITEM	TRANSMISSION LINE SIZES (Nominal od-Inches)			
	7/8	3/4	1/2	3/8
Slotted Sections ⁴	200-C 200-D	206-A 206-B	208-A 208-B	205-A 215-A
Attenuators:				
Uncalibrated				198
Piston				181
Fixed	136 Series			130 Series 135 Series
Terminations	113			102 123-7
Matching Transformers				306
Coaxial Transitions	389 390 391 392	364 395		387 390 391 392 364
Tube Mounts				701 -5, -6
Frequency Meters:				
Precision				560 583
Search				562
Reference Cavity				561-A
Detector Mounts:				
Crystal Mount				612-A ¹ 613
Bolometer Mount				612-A ¹

BOLOMETERS

- The Type 610-A is supplied with the Types 250-A and 612-A.
- The Type 614 is supplied with the Types 210, 211, 616 and 621.
- The Type 617 is supplied with the Types 212, 618 and 620.

Broadband Probe

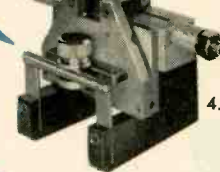
- The Type 250-A Probe is designed for use with the Types 200-C through 209-A and Type 215-A. Precision Slotted Sections; Types 210-212 are supplied with Built-in Probes and Tuners and Replaceable Detectors.



Types 130, 135
FIXED COAXIAL PADS
 2.00-10.0 kmc/s



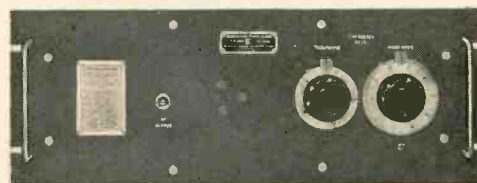
Type 250-A
BROADBAND
PROBE
 1.00-12.4 kmc/s



Type 205-A
COAXIAL
SLOTTED
SECTION
 4.00-10.0 kmc/s



Type 560 PRECISION
FREQUENCY METER
 2.40-3.40 kmc/s



Type 705 BROADBAND
MICROWAVE OSCILLATOR
 7.00-11.0 kmc/s



Type 612-A
TUNABLE CRYSTAL
AND BOLOMETER MOUNT
 1.00-10.0 kmc/s

SEND FOR NEW CATALOG

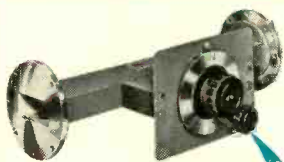
Complete information and data concerning the entire PRD line of precision test equipment is contained in our new catalog. A request on your company letterhead will bring your copy promptly—address Dept. F-1.

Polytechnic

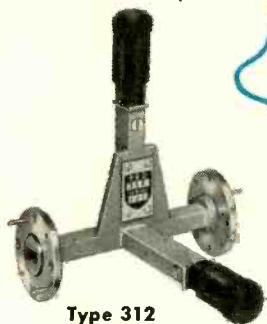
RESEARCH & DEVELOPMENT COMPANY • INC

from VHF to SHF

by



**Type 169 CALIBRATED
VARIABLE ATTENUATOR**
3.95-5.85 kmc/s



**Type 312
E/H TUNER**
26.5-40.0 kmc/s



**Type 559-A
PRECISION FREQUENCY
METER**
8.20-10.0 kmc/s



**Type 616
TUNABLE CRYSTAL
and BOLOMETER MOUNT**
12.4-18.0 kmc/s

WAVEGUIDE COMPONENTS

ITEM	WAVEGUIDE SIZE (INCHES)								
	3x1½	2.290x 1.145 I.D.	2x1	1½x¾	1¼x¾	1x½	0.622x 0.311 I.D.	0.420x 0.170 I.D.	0.280x 0.140 I.D.
Slotted Sections ⁴	209-A	207-S	201-A	204-A	202-A	203-A	210 ²	211 ²	212 ³
Attenuators: Flap	171		162	161	160	159	189	190	191
Uncalibrated	173-A	164-S	168-A	176-A	183-A	154 197-A	186-A		
Dial	174		169	177	184	196	187		
Precision	175	163-S	170	178	185	195	188	153-A	192
Piston							180		
Fixed	137 Series		120 Series	119 Series	118 Series	140 Series	138 Series		
Terminations	139	138-S	115	121	141	116	131	132	133
Directional Couplers			400	404	401	402	405		
Matching Transformers	309	307-S	300	305	302	303	311 314	313	312
Tube Mounts			704		702	703			
Frequency Meters: Micrometer Drive					551-G 551-H 576	551-E 551-F			
Precision		563-S	554-A 554-B	555-A 555-B 556-A 556-B	557-A 557-B 558-A 558-B	559-A 559-B 565-A 565-B	566-A 566-B 567-A 567-B	568-A 568-B 569-A 569-B	570-A 570-B 571-A 571-B
Detector Mounts: Crystal Mount						401	616 ²	621 ²	615
Bolometer Mount							616 ²	620 ^{3, 12}	618 ³
Thermistor Mount						611			



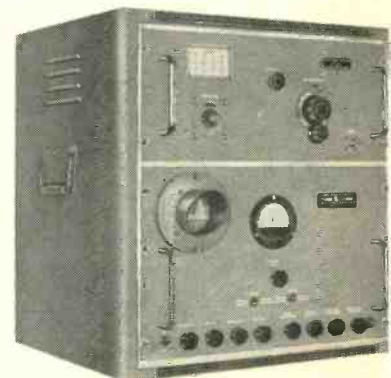
**Type 801 UNIVERSAL
KLYSTRON POWER SUPPLY**
800-1500 V at 65 ma;
1.5-3.6 KV at 25 ma



**Types 902 and 903
BROADBAND MICROWAVE
SIGNAL GENERATORS**
3.65-7.30 and 6.80-10.9 kmc/s



**Type 650
UNIVERSAL POWER BRIDGE**
0.1, 1.0, 10, 100 mw full scale



**Type 850 SERIES
UNIVERSAL SPECTRUM ANALYZERS**
2.40-3.40 and 8.50-9.60 kmc/s

ACCESSORIES

Waveguide to Coaxial Adapters	365		357	356	355	354			
Adjustable Wave- guide Shorts							320	321	322
Bends E-Plane			450	454	458	462	466	470	474
H-Plane			451	455	459	463	467	471	475
Tees Series			452	456	460	464	468	472	476
Shunt			453	457	461	465	469	473	477
E/H Tees			478	479	480	481	482	483	484
Waveguide Stands	375		376	377	378	379	386	387	388
Flange Bolt and Nut Assemblies	369-A		369-B	369-B	369-C	369-D	369-E		

PRD Special Services for -

MICROWAVE SPECTROSCOPY COMPONENTS

PRD's spectroscopy coverage includes a full complement of precision frequency meters and attenuators, terminations, standing wave detectors, etc. Also available on special order are Stark cells and modulators as well as a complete line of 5mm equipment.

PRODUCTION TEST SYSTEMS

PRD offers complete engineering facilities for the design and integration of production test systems for inclusion in the customer's production program.

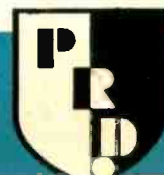
RADAR SYSTEM COMPONENTS

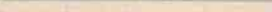
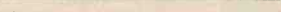
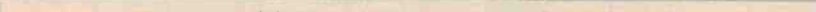
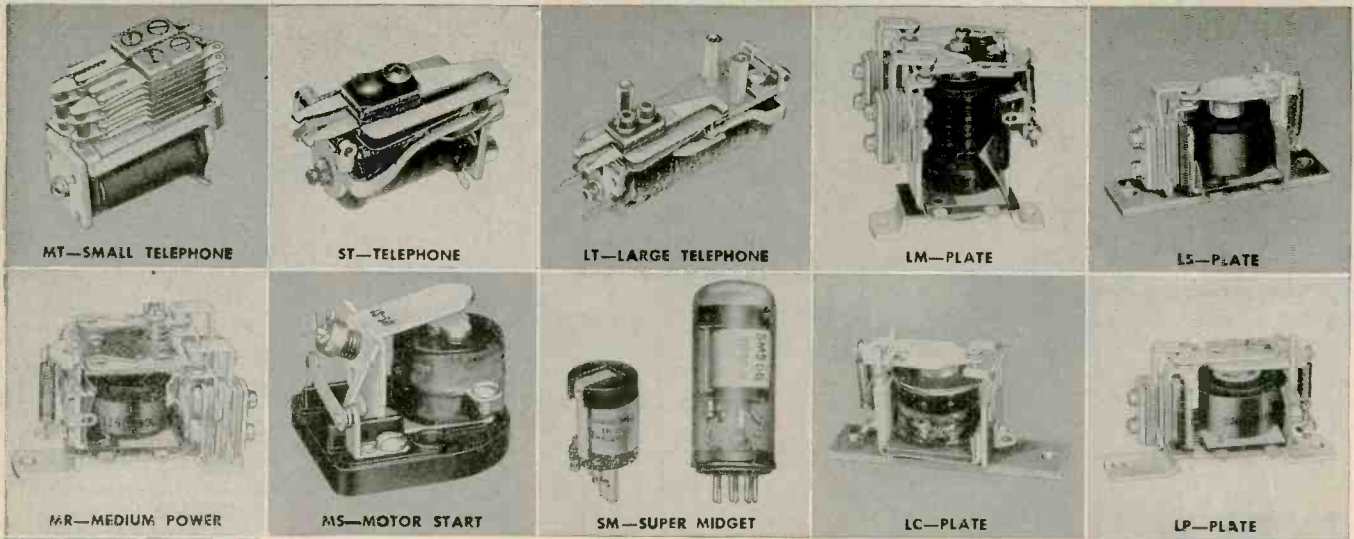
PRD specializes in the design and manufacture of component for use in military or commercial radar systems. Either standard or custom-built equipment can be supplied to exact specifications. Every unit furnished is backed by PRD's extensive theoretical and practical experience in this field.

INSTRUMENTATION FOR INDUSTRY

PRD now provides a complete service to industry in designing electronic instrumentation and control for machines, processes and production lines.

202 TILLARY ST., BROOKLYN 1, NEW YORK

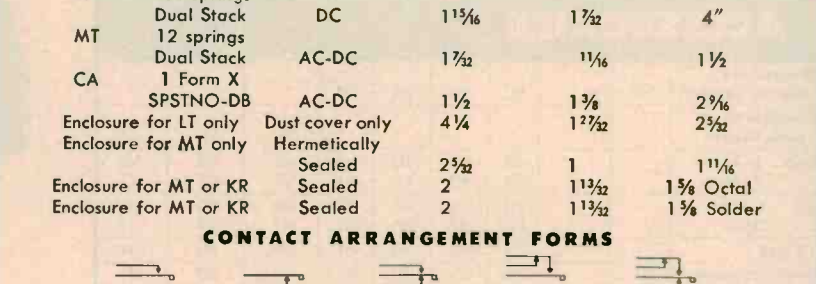
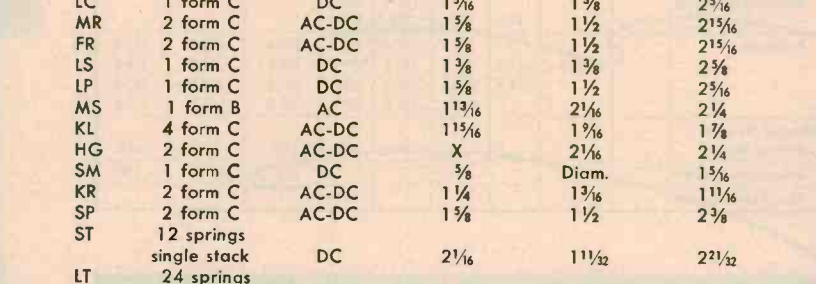
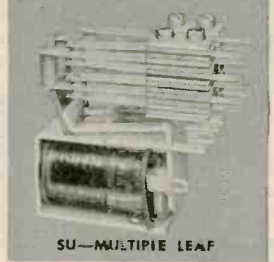




Potter & Brumfield

Standard and Special Relays to meet any Specification

P & B Series	Max. Contact Arrangement	Coil Operation	Height	Width	Length
PR	2 form C	AC-DC	2 ⁵ / ₁₆	2 ¹ / ₂	3 ¹ / ₂
LM	2 form C	DC	2 ³ / ₈	1 ³ / ₈	2 ¹ / ₄
SU	4 form C	AC-DC	2 ³ / ₈	1 ⁷ / ₁₆	2 ¹ / ₂
EL	4 form C	AC-DC	2 ³ / ₈	1 ³ / ₄	3 ¹ / ₁₆
LC	1 form C	DC	1 ⁵ / ₈	1 ³ / ₈	2 ⁵ / ₁₆
MR	2 form C	AC-DC	1 ⁵ / ₈	1 ¹ / ₂	2 ¹ / ₁₆
FR	2 form C	AC-DC	1 ⁵ / ₈	1 ¹ / ₂	2 ¹ / ₁₆
LS	1 form C	DC	1 ³ / ₈	1 ³ / ₈	2 ³ / ₈
LP	1 form C	DC	1 ³ / ₈	1 ¹ / ₂	2 ⁵ / ₁₆
MS	1 form B	AC	1 ¹ / ₁₆	2 ¹ / ₁₆	2 ¹ / ₄
KL	4 form C	AC-DC	1 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₈
HG	2 form C	AC-DC	X	2 ¹ / ₁₆	2 ¹ / ₄
SM	1 form C	DC	⁵ / ₈	Diam.	1 ⁵ / ₁₆
KR	2 form C	AC-DC	1 ¹ / ₄	1 ³ / ₈	1 ¹ / ₁₆
SP	2 form C	AC-DC	1 ³ / ₈	1 ¹ / ₂	2 ³ / ₈
ST	12 springs				
	single stack	DC	2 ¹ / ₁₆	1 ¹ / ₃₂	2 ² / ₃₂
	24 springs	DC	1 ⁵ / ₁₆	1 ⁷ / ₃₂	4"
LT	Dual Stack	AC-DC	1 ⁷ / ₃₂	1 ¹ / ₁₆	1 ¹ / ₂
MT	12 springs				
CA	1 Form X				
	SPSTNO-DB	AC-DC	1 ¹ / ₂	1 ³ / ₈	2 ³ / ₁₆
	Enclosure for LT only	Dust cover only	4 ¹ / ₄	1 ⁷ / ₃₂	2 ⁵ / ₃₂
	Enclosure for MT only	Hermetically Sealed	2 ⁵ / ₃₂	1	1 ¹ / ₁₆
	Enclosure for MT or KR	Sealed	2	1 ¹ / ₃₂	1 ³ / ₈ Octal
	Enclosure for MT or KR	Sealed	2	1 ¹ / ₃₂	1 ³ / ₈ Solder



CONTACT ARRANGEMENT FORMS

Auxiliary holding contacts can be supplied on several types on special order.

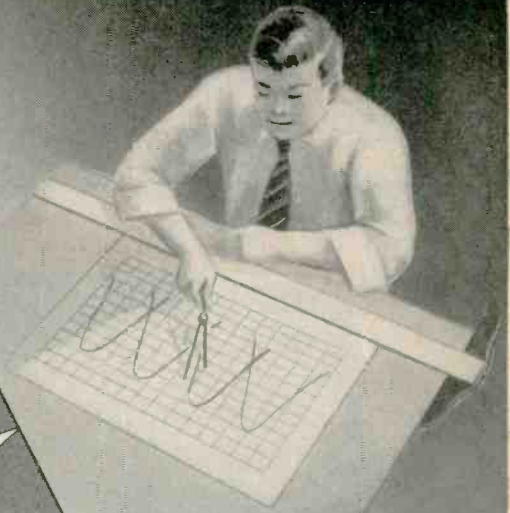
Additional insulation to comply with Underwriters recommendations on special order.

Send us your specifications for recommendations and quotations. Write for master catalog fully illustrating and describing all series and models. Your electronic parts distributor stocks P & B standard relays.

POTTER & BRUMFIELD - 217 N. Main Street - Princeton, Indiana
 Engineering sales offices in principal cities. Export: 2020 Engineering Building, Chicago 6, Illinois



MODERN
APPLICATION
DEMANDS...



Burnell
TOROIDAL **TOROIDS &**
COIL **FILTERS**

We know only too well what is modern today in Electronics can be obsolete tomorrow. We can retard obsolescence by designing our products with an eye toward the future and what future applications may demand of our products.

Burnell & Company has shaped its engineering policy with this viewpoint — by striving to keep well ahead — not just abreast of developments in the Hi Q Coil and Filter business.

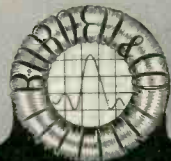
We search constantly for new design ideas that will permit the reduction of size and weight of Filters that "fly"; new circuits and components that will give our customers "more for their money" — and new production methods that will speed output and guarantee the reliability and life of our products.

Even our price structure has been streamlined to conform with the increasing industry-wide demand for economy, with no sacrifice in our high standard of quality.

We say that modern applications demand Burnell & Company's toroids and toroidal filter products because we are modern in every sense of the word: modern in outlook and technique as well as in price.

Exclusive Manufacturers of Communications Network Components

We particularly invite your inquiries concerning difficult filter applications



Burnell & Company

YONKERS 2, NEW YORK

CABLE ADDRESS "BURNELL"

PRECISION FREQUENCIES

ACCURACY: 1 PART IN 100,000 (OR BETTER) .001%

The controlling unit of these frequency standards is a bi-metallic fork, temperature-compensated and hermetically sealed against humidity and variations in barometric pressure. When combined with related equipment, accurate speed and time controls are afforded by mechanical, electrical, acoustical or optical means.

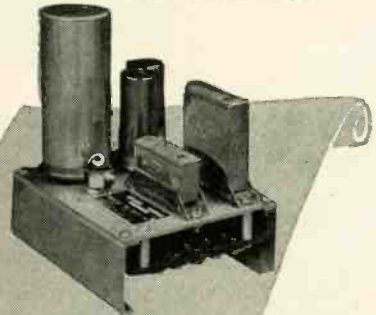
Instruments of our manufacture are used extensively by industry and government departments on such precision work as bomb sights and fire control.

Whatever your frequency problems may be, our engineers are ready to cooperate.

When requesting further details, please specify the Type Numbers on which information is desired.

FOR USE IN SUCH FIELDS AS

AVIATION
ASTRONOMY
BALLISTICS
HIGH-SPEED PHOTOGRAPHY
VISCOSITY MEASUREMENT
NUCLEAR PHYSICS
TELEMETERING
RADIATION COUNTING
FLUID FLOW
CHEMICAL REACTION
NAVIGATION
SCHOOL LABORATORIES
INDUSTRIAL RESEARCH LABS.
ACCURATE SPEED CONTROL



TYPE 2001-2. BASIC UNIT

Frequencies, 200 to 1500 cycles.
Dividers and Multipliers available for lower and higher frequencies.
Miniaturized and JAN construction.
Output, 6 volts.



TYPE 2121A. LAB. STANDARD

Outputs, 60 cycle, 0-110 Volts.
120-240 cycle impulses.
Input, 50-400 cycles, 45 W.



TYPE 2005. UTILITY UNIT

consists of Type 2001-2 and booster to provide 10 watts at 110 V at 60 cyc. Input, 50-100 cyc.



TYPE 2111. POWER UNIT

50 W output. 0-110 V at 60 cyc.
Input, 50-100 cyc., 275 W.

American Time Products, Inc.
580 Fifth Avenue
New York 19, N. Y.

OPERATING UNDER PATENTS OF THE WESTERN ELECTRIC COMPANY

Be Sure of the
RIGHT Motor
Right from the Start



Bendix
builds to Your
Blueprints!

Tired of compromising your plans to fit standard "off-the-shelf" motors? Bendix will build to *your* requirements promptly and at moderate cost. Bendix manufactures fractional horsepower DC motors to the usual military specifications for airborne and ground equipment, offering a wide variety of speed and torque characteristics. Continuous or intermittent operation to meet your exact performance and physical requirements is obtained by the use of proper windings in various frame sizes from 1 3/8" to 3 1/16" diameter. Samples or production units of special motors are priced competitively. Your detailed requirements will receive the prompt attention of our engineering department.



RED BANK DIVISION
OF BENDIX AVIATION CORPORATION
RED BANK, NEW JERSEY

Export Sales: Bendix International Division, 72 Fifth Ave., N. Y. 11, N. Y.

ELECTRONICS BUYERS' GUIDE — June, 1950 — MID-MONTH

A Scramulated Frenostat!!!?

"A Scramulated Frenostat!!!? Never heard of it—I'm just a P.A. But don't worry, we'll call Sun Radio, they'll know all about it. They have everything."

"**Has to Meet JAN Specs?**—That's easy. Sun Radio specializes in JAN spec components—those boys have been a big help on our government orders."

"**Unichassis?**—Oh, yes, I know that item—it's distributed exclusively by Sun Radio. Amazing how many manufacturers use Sun as their exclusive distributor. Guess that shows what a great job they do in serving the customer."

"**In a Hurry?**—No problem. Sun Radio uses full time expeditors whose only job is to get us rush orders like this in a minimum of time."

"**Crystal Triode?**—Uhhmm . . . let me see . . . oh, yes, the 'Sun Radio Monthly Mailer' for May described one in detail. We'll write and have them put you on their mailing list—best way I know to keep informed of new products and bargain items."

"**For Our California Plant?**—Hmph, that's easy for Sun, they've been shipping all over the world for years."



Sun Radio & Electronics Co., Inc., New York, has no branches or affiliates in any other city. This is our one and only address. This is the outfit which for 28 years has been famous for its service as a parts supplier to government, industry, universities, research labs, broadcasters. Call or write for information, quotes, literature. Write to get on our mailing list for the famous MONTHLY MAILER and that great new catalog we are preparing.

"**Catalog?**—Sure, they're compiling one right now. I'll have Sun Radio put you on their list to get this big, new catalog of industrial, university and laboratory electronic components, instruments and supplies. They say it'll be something really worth having, what with its new approach and logical presentation of the thousands upon thousands of electronic items now on the market."

"**Sure, I'm Sold on the Outfit.**
—As radio parts suppliers they're tops—it's just like dealing with all the parts manufacturers rolled into one, friendly, efficient, compact organization. You know, it's no wonder Sun Radio does such a terrific job as a parts supplier—why they've been at it since 1922."



"ASK YOUR JOBBER" MEANS ASK SUN RADIO



for critical audio requirements

Specify Stancor

The Stancor HF and WF series of high fidelity audio transformers are premium components around which the finest quality audio equipment may be designed. Check these features:

- ✓ Extremely wide frequency range.
- ✓ Special coil design for low leakage reactance and intermodulation distortion.
- ✓ High permeability shielding for minimum inductive pickup.
- ✓ Precision hum-bucking construction on low level units.
- ✓ Balanced multiple line matching available.
- ✓ Units potted in durable cast cases.

HF Series

These units have a wide frequency response of 20 to 20,000 cps with ± 1 db. Correct design reduces harmonic and intermodulation distortion to a negligible amount. Balanced humbucking construction minimizes hum pickup. Stancor

impregnation insures long life. Cases are finished in gray enamel and have four threaded holes at each end for flush mounting. Stud-type terminals are plainly marked for easy identification.

LOW IMPEDANCE TO GRID

PART NO.	APPLICATION	PRIMARY IMP/OHMS	SECONDARY IMP/OHMS	MAX. LEVEL	HUM-PICKUP REDUCTION †	MTG. §	LIST PRICE
HF-20	Low Imp. Mic., Pickup, or Line to Grid	50, 125/150, 200, 250, 333, 500/600	60,000 overall, in two sections	15 db	-74 db	HF-1	\$24.50
HF-20X	Low Imp. Mic., Pickup, or Line to Grid	50, 125/150, 200, 250, 333, 500/600	50,000	14 db	-92 db ‡	HF-1	31.25
HF-22	Low Imp. Mic., Pickup, or Line to P.P. Grids	50, 125/150, 200, 250, 333, 500/600	120,000 overall, in two sections	15 db	-74 db	HF-1	27.50
HF-22X	Low Imp. Mic., Pickup, or Line to P.P. Grids	50, 125/150, 200, 250, 333, 500/600	80,000 overall; in two sections	14 db	-92 db ‡	HF-1	34.25

INTERSTAGE

HF-29	Sgl. Pl. to P.P. Grids—Split secondary	15,000	95,000 (Turn ratio 2.5:1 overall)	17 db	-50 db	HF-1	23.50
HF-31	Single Plate to P.P. Grids. Split pri. and sec.	15,000	135,000 (Turn ratio 3:1 overall)	14 db	-74 db	HF-1	24.00
HF-32	P.P. Plates to P.P. Grids. Split pri. and sec.	30,000 Plate to Plate	80,000 (Turn ratio 1.6:1 overall)	26 db	-50 db	HF-2	30.50

MIXING

HF-40	Low Imp. Mixer. Mic., Pickup, or Line to Line	50, 125/150, 200, 250, 333, 500/600	50, 125/150, 200, 250, 333, 500/600	17 db	-74 db	HF-1	24.50
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OUTPUT

HF-65†	P.P. 2A3's, 6L6's, etc. to Line or Voice Coil	3,000 or 5,000 Plate to Plate	1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333 or 500	20 watts	HF-2	27.50
HF-67†	P.P. 2A3's, 6L6's, etc. to Voice Coil	3,000 or 5,000 Plate to Plate	30, 20, 15, 10, 7.5, 5, 2.5, 1.2	20 watts	.....	HF-2	20.00
HF-68†	P.P. Par. 2A3's, 6A5G's, 300A's, 6A3's to Line or Voice Coil	1,500 or 2,500 Plate to Plate	500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2	40 watts	.....	HF-3	49.50

§HF-1 Case: Shpg. wt., 3.0 lbs. Height overall, $3\frac{1}{4}"$. Base area, $2\frac{1}{16}" \times 3\frac{1}{16}"$. Mtg. ctrs., $1\frac{1}{16}" \times 2\frac{1}{16}"$. HF-2 Case: Shpg. wt., 7.5 lbs. Height overall, $4\frac{3}{8}"$.

Base area, $3\frac{1}{16}" \times 4\frac{3}{16}"$. Mtg. ctrs., $2\frac{1}{16}" \times 3\frac{1}{16}"$. HF-3 Case: Shpg. wt., 15.0 lbs. Height overall, $4\frac{1}{16}"$. Base area, $4\frac{1}{16}" \times 5\frac{1}{16}"$. Mtg. ctrs., $4\frac{3}{16}" \times 5\frac{1}{16}"$.

WF Series

These units are of the same outstanding quality as the HF Series above, and, with the exception of two units, have a frequency response of 30-20,000 cps within ± 2 db. The WF-21 and WF-35 have a response within ± 2 db from 50-20,000 cps and have multiple alloy shields for extremely low hum pickup. All WF

units are cased in the WF-6 type cast case with phenolic terminal board and four tapped holes for flush mounting. Overall dimensions are 2" high with $1\frac{1}{2}" \times 1\frac{1}{2}"$ base area. Mounting centers are $1\frac{1}{2}" \times 1\frac{1}{2}"$. Shipping weight is 0.6 lbs.

PART NO.	APPLICATION	PRIMARY IMP/OHMS	SECONDARY IMP/OHMS	LIST PRICE
INPUT				
WF-20	Low Imp. Mic., Pickup, or Line to Grid	50, 125/150, 200, 250, 333, 500/600	50,000	\$14.50
WF-21	Low Imp. Mic., Pickup, or L. to Sgl. or P.P. Grids	50, 200, 500	50,000	15.50
WF-22	Low Imp. Mic., Pickup, or Line to P.P. Grids	50, 125/150, 200, 250, 333, 500/600	80,000 overall, in two sections	14.50
WF-24	Dynamic Microphone to 1 or 2 Grids	30	50,000 overall, in two sections	14.00
INTERSTAGE				
WF-26	Single Plate to Single Grid	15,000	60,000 (Turn ratio 2:1)	12.75
WF-28	Sgl. Pl. to 2 Grids. Can use split pri. for P.P. Pl.	15,000	80,000 overall (Turn ratio 2.3:1 overall)	14.00
LOW LEVEL OUTPUT				
WF-34	Single Plate to Line	15,000	50, 125/150, 200, 250, 333, 500/600	14.50
WF-36	P.P. Low Level Plates to Line	30,000 Plate to Plate	50, 125/150, 200, 250, 333, 500/600	15.00
WF-35	Single Plate to Multiple Line Primary D.C. 8.0 ma Response from 50-20,000 cps within ± 2 db.	15,000	50, 125/150, 200, 250, 333, 500/600	14.00
MIXING				
WF-30	Low Imp. Mixer, Mic., Pickup, or Line to Line	50, 125/150, 200, 250, 333, 500/600	50, 125/150, 200, 250, 333, 500/600	14.50

† Response ± 1 db from 25 to 20,000 cps.

‡ As compared to standard uncased units.

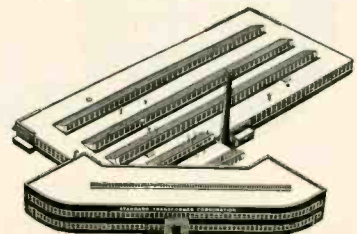
§ Quadruple alloy magnetic shield.



These units are representative of the more than 400 part numbers in the Stancor stock line—the most complete in the industry. They are available for immediate delivery from your local Stancor distributor. A catalog item will, in many cases, fill the special application.

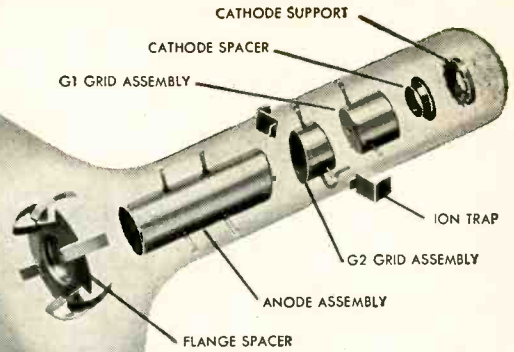
In addition, a large part of Stancor's modern facilities are devoted to quantity production of made-to-specification transformers for the electronic industry. Your inquiries are invited.

Write for Stancor's 1950 Catalog today.



STANDARD TRANSFORMER CORPORATION, 3586 Elston Avenue, Chicago 18, Illinois

**VOLKERT
STAMPINGS PUT
THE PICTURE
IN OVER
1,500,000
TUBES**



More than 35% of the metal parts in all electron guns are produced at Volkert—at the rate of 30,000 sets weekly! Here, engineers who pioneered with the industry in television tooling have redesigned the major metal components to help bring down the cost of tube assemblies. For example—

Grids are deep drawn in one operation; tubing formerly required many production steps— *cost saving—58%*

Flange spacer is produced in one piece instead of five parts welded together— *cost saving—48%*

Anode is made with a lock seam from flat strip instead of tubing— *cost saving—53%*

Volkert has designed and built high production dies and produced parts for cathode ray tubes since 1937—during the war for radar. That's why leading television-design engineers find it profitable to consult with Volkert.

Volkert produced 138 million precision stampings in 1949 for radio and television on batteries of the latest-type equipment with automatic feeds. Through skilled inspection procedures all along the production line, Volkert is able to maintain the close tolerances required, yet manufacture such huge quantities of parts with only negligible rejects.

This combination is what Volkert brings to every precision stamping problem.

JOHN VOLKERT METAL STAMPINGS INC.
222-34 96th Avenue, Queens Village 8, L. I., N. Y.

Volkert

PRECISION STAMPINGS



LOOK TO **Centralab**

First in component research that means lower costs for the electronic industry.

Modernize, Economize on Your Circuit Design with CRL Components

IN MINIATURE circuit design such as hearing aid amplifiers, CRL Printed Electronic Circuits are becoming increasingly popular. First, because of *compact size*; second, *dependable electrical characteristics*; third, *rugged construction*; and fourth, *resistance to humidity*.

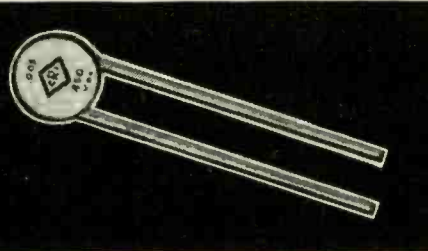
Our engineers will gladly show you how P.E.C.'s can be adapted to your needs. Centralab is the *original producer* of printed electronic circuits — first to integrate all necessary parts and wiring into one simple miniature unit.

Illustration shows variety of CRL genuine electronic circuits now available.

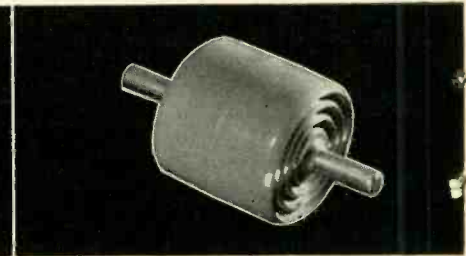
1. **Filpec** — a tiny balanced diode load filter. Bulletin 42-9.
2. **Couplete** — a complete printed triode interstage coupling plate. Bulletin 42-6 and 42-27.
3. **Model 2 Ampex** — a printed circuit miniature, one-piece three stage amplifier. A complete circuit from input to output. Details on specific request.
4. **Pentode Couplete** — a complete pentode interstage coupling circuit. Bulletin 999.
5. **Vertical Integrator** — a vertical integrator printed circuit network, designed for TV application. Bulletin 42-22.
6. **Ceramic Plate Components** — single, multiple, capacitor, resistor and RC components, on a miniature ceramic plate. Bulletin 42-24.

Use CRL Ceramic Capacitors for Television Applications

More and more TV set manufacturers are including CRL's advanced line of TC and BC *Hi-Kaps*, *Disc* and *Hi-Vo-Kap* capacitors in their latest circuit designs. *Reason*: CRL capacitors are made with Centralab's *exclusively* developed Ceramic-X material; afford consistent electrical characteristics, mechanical durability, increased longevity and are impervious to moisture.



CRL Disc Capacitors. The miniature, ceramic *Hi-Kap* disc capacitor, designed for low inductance, low effective resistance at VHF, the best R.F. bypass condenser for TV and FM. Reliability in small size and low weight. Bulletin 42-4.



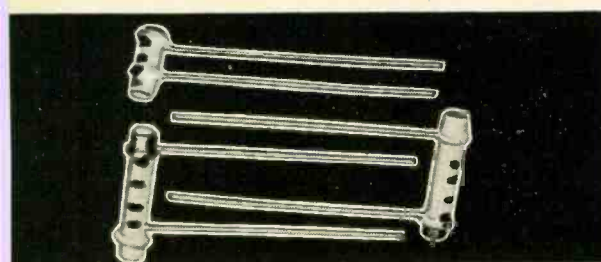
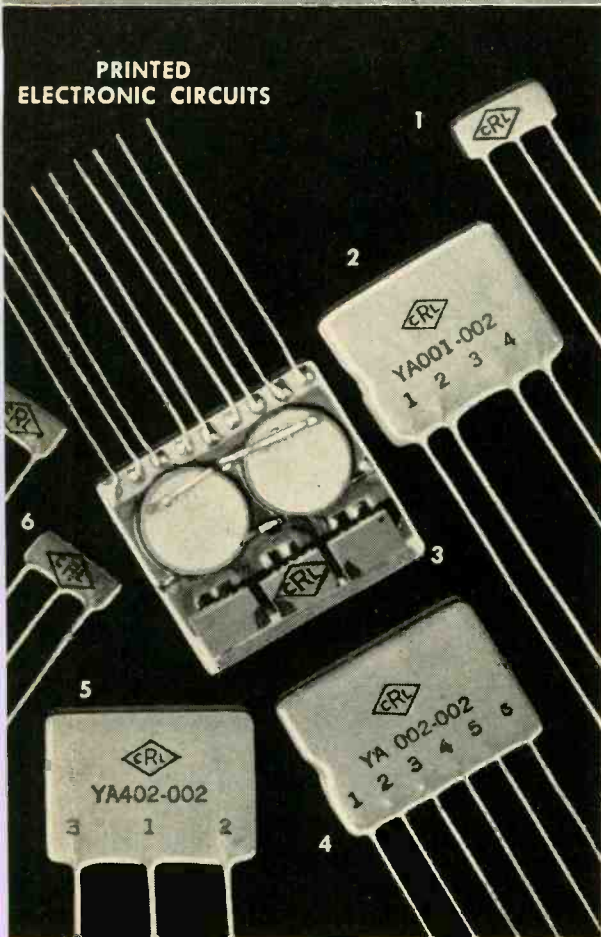
CRL Hi-Vo-Kaps. Principle use — TV video, high voltage power supply. High voltage pulse filter requirement for cathode ray tubes. Also, transmitter low power DC filter. Low power, high voltage power supplies. Bulletin 42-10.

Centralab Capacitors for other Applications

High Accuracy — for rigid frequency control. Capacity tolerance, $\pm 1\%$ TC tolerance ± 10 ppm over temperature range: -50 to $+85^\circ$. Standard working voltage, 500 D.C.

High Voltage — capacity tolerance, $\pm 10\%$. Five sizes, from 5000 to 15,000 WVDC. Flashover voltage — 10,000 to 30,000 VDC. Current ratings: 1.5 amps to 15 amps, RMS at 30 MC.

Write for information. **Trimmers**: Four basic types. WV, 500 DC. Flash test 1100 VDC. Power factor, less 0.2% at 1 megacycle. Write for information.



CRL Tubular Capacitors. Negative temperature coefficient *TC Hi-Kaps* are ideally suited to prevent frequency drift in resonant circuits, TV, FM and AM tuners. Also readily adaptable to HF circuits as coupling and blocking condensers where low loss, stable capacity is required. No appreciable change with aging, humidity or temperature — four sizes, capacity from .5 to 2400 mmf., rated at 500 WVDC. *BC Hi-Kaps*, for use where temperature compensation is unimportant. From .000010 to .01 mfd., 500 WVDC. Send for Bulletin 42-3.

BUY FROM Centralab

Makers of a complete line of components for the electronic industry.

SWITCHES . . . complete line featuring high quality, rugged construction for every type of electronic and industrial application.

Spring Return Rotary Switch: made with coil spring and cam index. 30 degree index, with 10 indexing combinations, permits handling up to three sections. Tested stop-strength of 48 inch pounds. (RMA Standard, 24 inch-pounds). Guaranteed minimum life, 100,000 cycles. (RMA Standard, 10,000 Cycles). Removable coil spring—can be replaced without removing switch from chassis. Bulletin No. 995.

"F" Index: for simple band change or radio-phono operations or general switching applications. V-spring. Life test—5 positions—10,000 cycles.

"G" Index: ideal for industrial applications. Coil spring replaceable without removing switch. Life test—5 positions—250,000 cycles.

"H" Index: (at right) primarily for band change and general tap switch applications. Spring and ball mechanism. Life test—5 positions—10,000 cycles.

Tone Switch: 3-4-6-8-9 or 10 clips available in tone switch group. All rated at 6 watts. Contact resistance less than $2\frac{3}{4}$ milliohms.

Lever Switch: eight basic indexing combinations available. Exclusive coil spring design with cam and roller offers truly long life, (guaranteed minimum life test of 100,000 cycles), and low capacity for all circuit work such as test, inter-com, AF and RF equipment. Bulletin 970.

Power Switch: designed for transmitters, power supply convertors, X-ray equipment, etc. Efficient performance up to 20 megacycles.

For complete details ask for Switch Catalog 722.

CONTROLS . . . low noise level, long life, dependable performance, wide range of possible variations.

Model 1 Radiohm: smaller than a dime, for miniature receivers, amplifiers. Rating—1/10 watt. Shielded from dust, lint, etc. Bulletin 42-7.

Model 2 Radiohm: A fine new precision line of controls for AM—FM—TV. 15/16" dia. rated at 1/2 watt. Variety of unit types available—3 basic switches 1, 5, and 8 amp. Bulletin #42-85.

Model "R" Radiohm: Wire wound rated at 3 watts. Available with AC line switch.

Model "M" Radiohm: Most versatile control of all. Composition type. Rated at 1/2 watt. Can be twinned, tripled—twinned with switch or with concentric shaft.

Switch Covers: Five types for "R" Radiohms; four types for "M" Radiohm; Rated at 3 amp. 125 volts, 1 amp. 250 volts.

Rheostats: For commercial use such as small motor speed controls, charging rate adjusters, etc. Two sizes available: 25 and 50 watts.

CERAMICS . . . engineered for special industrial and electrical applications requiring specific properties of hardness, coefficient of expansion, porosity. Bulletin 720.

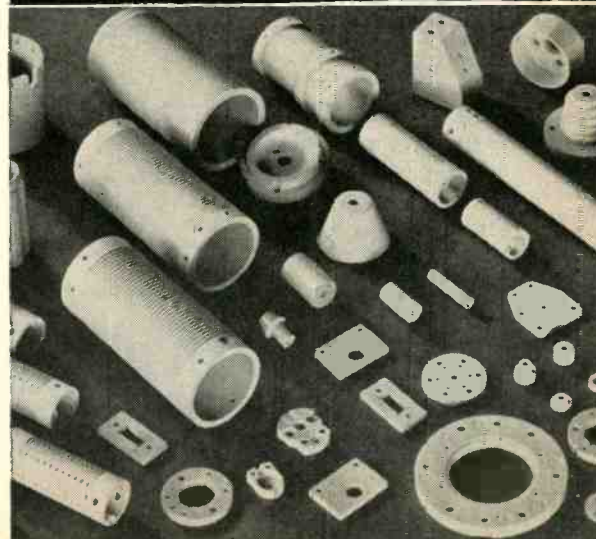
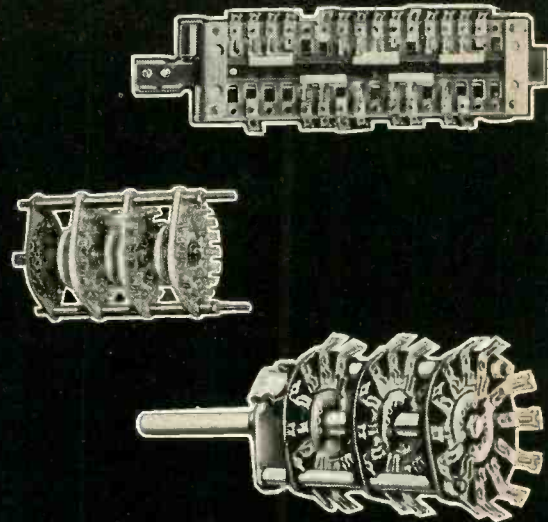
Steatite: Uniform white, high dielectric strength, high mechanical strength, low dielectric loss at high frequencies. Impervious to moisture and common acids, won't warp in use, withstands high temperature, remains stable.

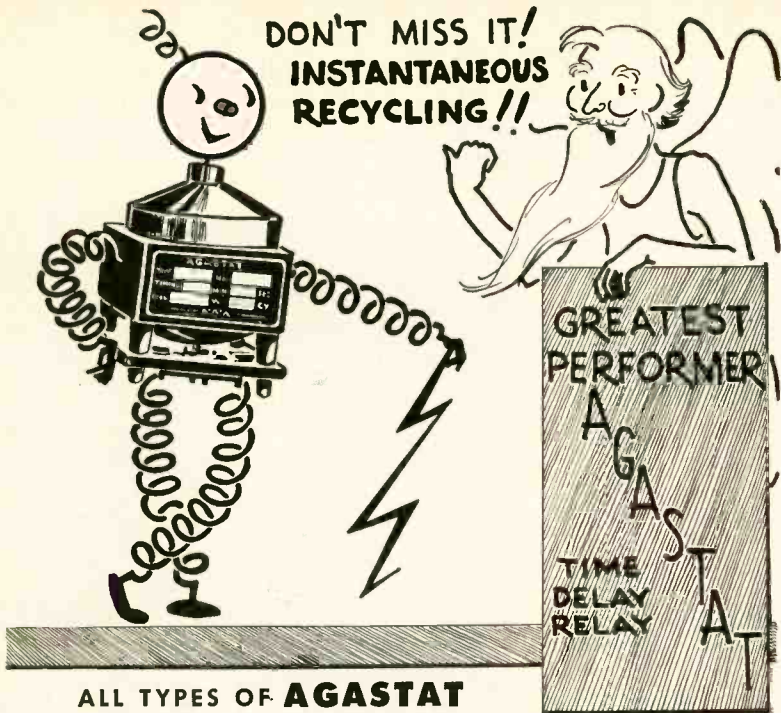
Centradite: For use where low thermal expansion and high resistance to neat shock is desired. Composed chiefly of Cordierite, a magnesium aluminum silicate crystalline material. White in color and low in porosity. Variations available for specific design and production needs.

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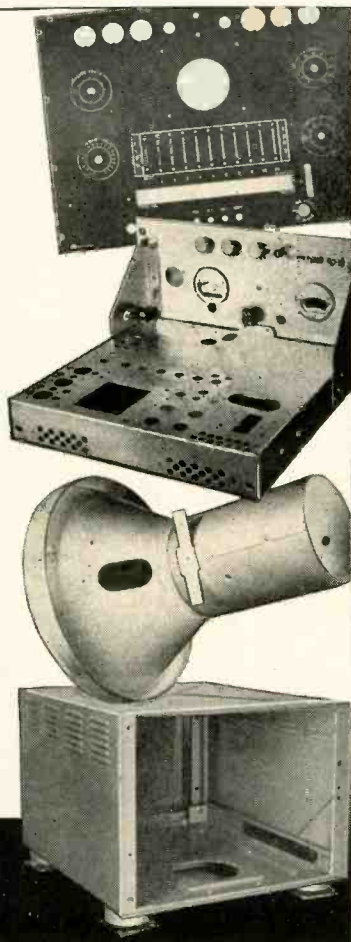
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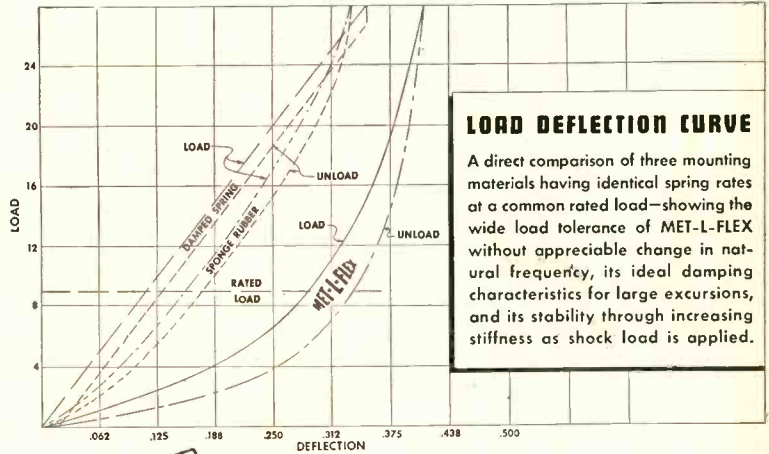
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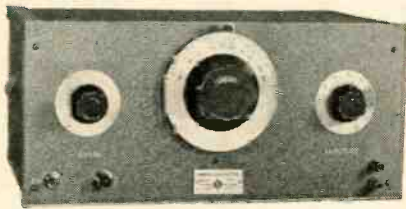
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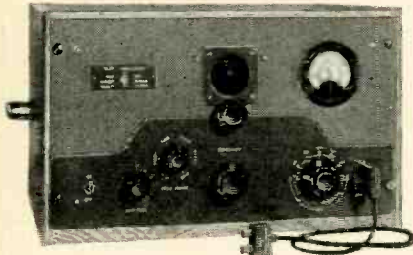
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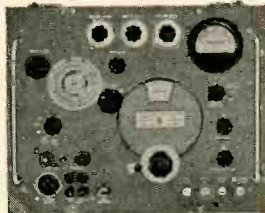
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-hp- 650A Signal Generator



-hp- 616A UHF Signal Generator



-hp- 330B Distortion Analyzer



-hp- 400C Vacuum Tube Voltmeter



-410A Vacuum Tube Voltmeter

FUNCTION	MODEL	FREQUENCY	CHARACTERISTICS
SECONDARY FREQUENCY STANDARDS	100C	100 kc, 10 kc, 1 kc, 100 cps	Temperature controlled; accuracy 0.001%; sine wave output
	100D	100 kc, 10 kc, 1 kc, 100 cps, 10 cps	Temperature controlled; accuracy 0.0002%; sine, square wave output, time markers
RESISTANCE-TUNED OSCILLATORS	200A	35 to 35,000 cps	Output 1 watt into 500 ohms; 1% distortion
	200B	20 to 20,000 cps	Output 1 watt into 500 ohms; 1% distortion
	200C	20 to 200,000 cps	Output 10 volts into 1,000 ohms; 1% distortion
	200D	7 to 70,000 cps	Output 10 volts into 1,000 ohms; 1% distortion
	200H	60 to 600,000 cps	Output 10 mw into a 100 ohm load; 3% total distortion
	200 I	6 to 6,000 cps	Frequency setting closer than 1%; output 10 volts into 1,000 ohms; 1% distortion
	201B	20 to 20,000 cps	Output 3 watts at 1% and 1 watt at 1/2% distortion into 600 ohms
	202B	1/2 to 50,000 cps	For low frequency studies. Output 10 volts into 1,000 ohms; 1% distortion
	202D	2 to 70,000 cps	Output 10 volts into 1,000 ohms; 2% distortion
	204A	2 to 20,000 cps	Portable, battery-operated; output 5.0 volts to 10,000 ohm load; 1% distortion
AUDIO SIGNAL GENERATORS	205A	20 to 20,000 cps	Output 5 watts, 1% distortion into impedances of 50, 200, 600, 5,000 ohms. Output VTVM and 110 db attenuator, 1 db steps
	205AG	20 to 20,000 cps	Same as 205A, plus separate VTVM for complete gain measurements
	205AH	1 to 100 kc	Output 5 watts, 1% distortion into 50, 200, 500, 5,000 ohm impedances. Output VTVM and 110 db attenuator, 1 db steps
	206A	20 to 20,000 cps	Output +15 dbm with less than 0.1% distortion into 50, 150, 600 ohm impedances. Output VTVM and 111 db attenuator in 0.1 db steps
SQUARE WAVE GENERATOR	210A	20 to 10,000 cps	Output 50 volts peak to peak; 1,000 ohm internal impedance; 70 db attenuator, 5 db steps
PULSE GENERATOR	212A	50 to 5000 pps	50 volt pulse to 50 ohm load. Variable 0.07 to 10.0 microseconds
WAVE ANALYZER	300A	30 to 16,000 cps	Variable selectivity; measurement range 1 mv to 500 volts; 9% accuracy
	320A	400 cps and 5 kc	Measures total distortion as low as 0.1%. 70 db attenuator, 1 db steps for comparison
DISTORTION ANALYZERS	320B	50, 100, 400 cps and 1, 5 and 7.5 kc	Same as 320A
	330B	Any frequency 20 to 20,000 cps	Measures total distortion low as 0.1%. Input amplifier; complete VTVM, each usable separately.
	330C	Any frequency 20 to 20,000 cps	Similar to 330B. Meter has VU characteristics to meet FCC requirements for FM broadcasting.
	330D	Any frequency 20 to 20,000 cps	Similar to 330B, includes AM detector and VU meter characteristics. For FM and AM broadcasts.
BROADCAST MONITORS	335B	88 to 108 mc	For FM broadcast. FCC approved. Monitors carrier frequency and modulation. High fidelity output for aural monitoring
	335C	59 to 88 mc	For TV aural monitoring, channels 2 to 6. Same as 335B
	335D	179 to 216 mc	For TV aural monitoring, channels 7 to 13. Same as 335B
	337A	30 to 175 mc	FM Communications Monitor. Indicates mean frequency and modulation. Operates on 1 frequency.
	337B	30 to 175 mc	Same as 337A. Any 4 frequencies.
ATTENUATORS	350A	Max 100 kc	110 db, 1 db steps; 5 watts, 500 ohm level. Bridged T type. Accuracy 1 db in 50 db at 100 kc
	350B	Max 100 kc	Same as 350A but 600 ohm level
FILTERS	360A thru D	Cutoff A—700 mc B—1200 mc C—2200 mc D—4100 mc	Low pass, 50 db attenuation at 1.2 cutoff frequency. 50 ohms impedance



FUNCTION	MODEL	FREQUENCY	CHARACTERISTICS	
VACUUM TUBE VOLTMETERS AMPLIFIERS, AND ACCESSORIES	400A	10 cps to 1 mc	Nine ranges 0.03 to 300 volts full scale. Accuracy $\pm 3\%$ to 100 kc, $\pm 5\%$ to 1 mc. Average reading. Calibrated in rms.	
	400B	2 cps to 100 kc	Same as 400A with response flat to 2 cps. 10 megohm input impedance	
	400C	20 cps to 2 mc	Twelve ranges 0.001 to 300.0 volts full scale; accuracy $\pm 3\%$ to 100 kc, $\pm 5\%$ to 2 mc; 10 megohm input impedance; average reading; calibrated in rms volts; may be used as 54 db amplifier	
	404A	2 to 50,000 cps	Portable, battery-operated; eleven ranges; 0.003 to 300 volts full scale; accuracy $\pm 3\%$ to 20 kc; 10 megohm input impedance	
	410A	20 cps to 700 mc	AC: six ranges 1 to 300 volts. DC: seven ranges 1 to 1,000 volts. Resistance: seven ranges 0.2 ohm to 500 megohms	
	415A	300 to 2,000 cps	Standing Wave Indicator for use with a balometer or crystal rectifier; standard frequency 1000 cps, others on special order	
	417A	10 to 500 mc	VHF Detector. Approximately 5 microvolts sensitivity	
	430A	Depends on Balometer Mount	Microwave Power Meter. Measures directly power dissipated in a 200 ohm bolometer. Full scale reading 0.1 to 10.0 milliwatts	
	450A	10 to 1,000,000 cps	Amplifier, 40 db and 20 db stabilized gain. Input impedance 1 megohm.	
	452A	25 cps to 20 mc	Capacitive voltage divider for Models 400A or C and 410A. Division ratio 1000:1	
	453A	10 kc to 100 mc	Capacitive voltage divider for Model 410A. Division ratio 100:1	
	454A	20 cps to 2 mc	Capacitive voltage divider for Models 400A, 400C. Division ratio 100:1	
	455A	to 1,000 mc	Connects probe of 410A across 50 ohm transmission line. Type N fittings	
	458A	to 1,000 mc	Connects probe of 410A to open end of 50 ohm transmission line. Type N fittings	
	459A	dc only	Resistive voltage multiplier for Model 410A dc section. Ratio 100:1	
TUNABLE BOLOMETER MOUNTS	460A	100 kc to 140 mc	Amplifier, 20 db gain. Rise time .0026 μ sec. No overshoot. 200 ohm impedance level.	
	470A	to 1 mc	Shunt resistor for 400A, B, C. 0.1 ohm	
	470B thru F	to 2 mc	Same as 470A, 1.0, 10, 100, 600 and 1000 ohms	
	475A	300 to 1,000 mc	Matches 50 ohm line to Bolometer of 100-200 ohms	
	475B	1,000 to 4000 mc	Same as 475A	
	ELECTRONIC FREQUENCY METER	500A	5 cps to 50 kc	Ten ranges, $\pm 2\%$ accuracy. Input 0.5 to 200 volts
		505A	300 to 3,000,000 rpm	Ten ranges, $\pm 2\%$ accuracy
	ELECTRONIC TACHOMETER	505B	5 to 50,000 rps	Same as 505A except calibrated in rps
		608A	10 to 500 mc	Calibrated output 0.1 μ v to 1.0 v. Amplitude and pulse modulated. Direct frequency calibration
	SIGNAL GENERATORS	610B	450 to 1200 mc	Calibrated output 0.1 microvolt to 0.1 volt. Internal pulse modulation. Direct frequency calibration
614A		800 to 2100 mc	Calibrated output 0.1 microvolt to 0.2 volts. Internal pulse and FM modulation	
616A		1,800 to 4,000 mc	Calibrated output 0.1 microvolt to 0.2 volts. Internal pulse and FM modulation	
650A		10 cps to 10 mc	Direct reading. Six bands. Output 3 volts to 600 ohm load. VTVM and output attenuator	
POWER SUPPLIES		710A		Any dc voltage 180 to 360 for 0 to 75 ma load; approximately 1% regulation. Also 6.3 volts, 5 amps ac.
	712A		Zero to 500 v. Loads zero to 200 mc at $1/2\%$ regulation. Also 150 v. negative and 6.3 v. filament supplies.	
VHF BRIDGE	803A	50 to 500 mc	Direct reading. Impedance 2 to 2,000 ohms. Phase angle -90° to 90° .	
SLOTTED LINES	805A	500 to 4,000 mc	VSWR less than 1.04. Tunable probe. 50 ohm impedance. Type N connectors	
	805B	500 to 4000 mc	VSWR less than 1.02. Tunable probe. 46.3 impedance. For $7/8$ " rigid coaxial cable.	

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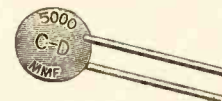


TYPE T's are the finest, most dependable capacitors obtainable for broadcast and commercial transmitting application. In all popular capacities up to 7,500 V.D.C.



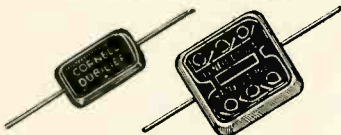
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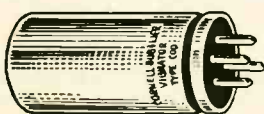


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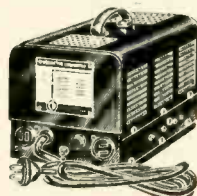
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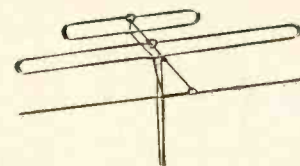
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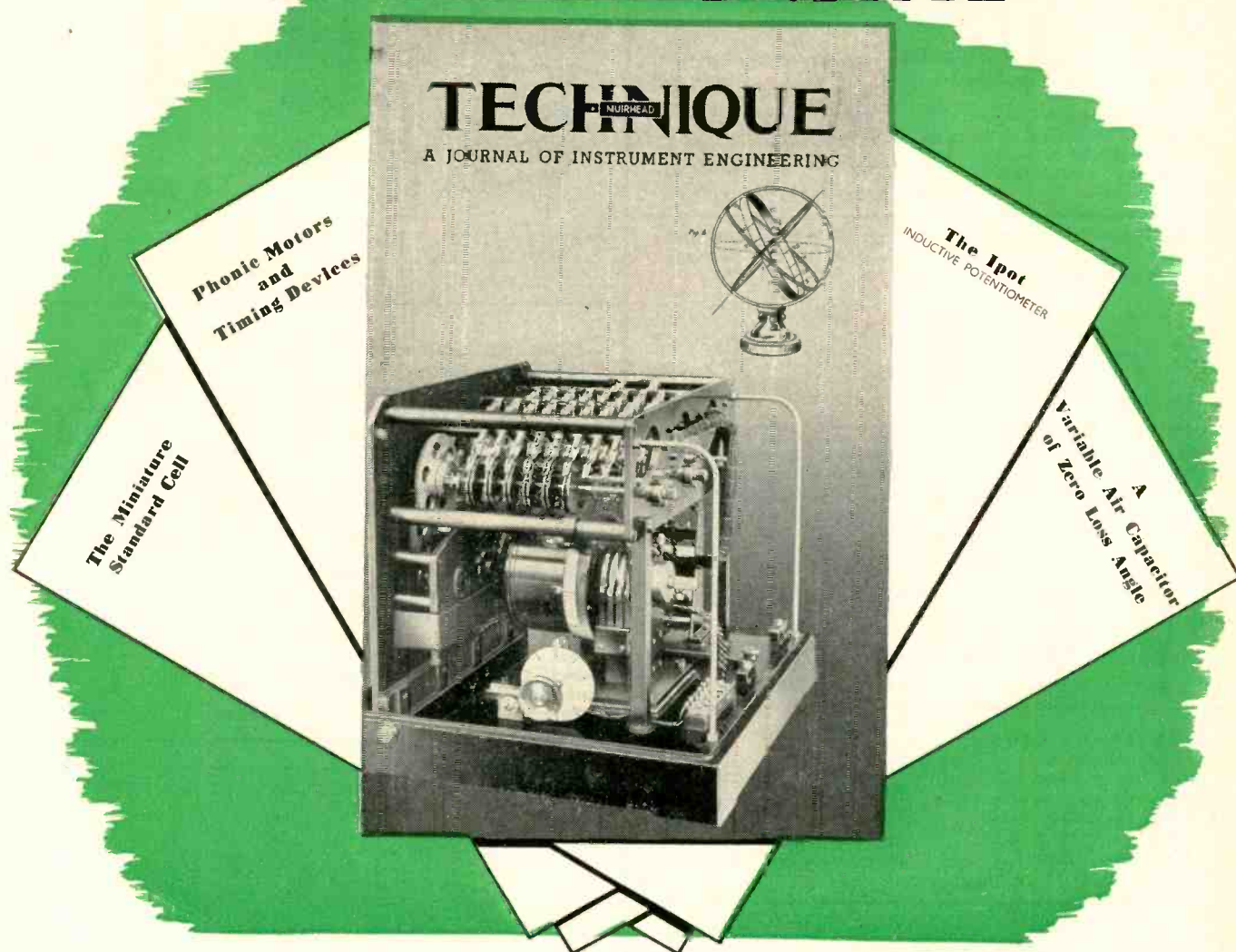
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ELECTRICAL AND ELECTRONIC COMPONENTS AND HARDWARE

SHORT LUGS (All Terminal Lugs shown actual size unless otherwise specified. All Lugs silver-plated brass.)

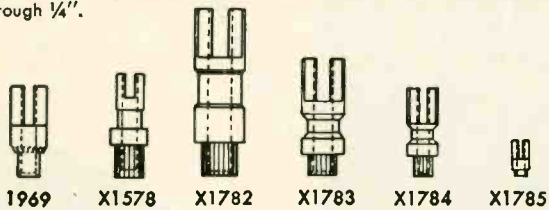
For low "headroom" applications. Available in shank lengths for 6 board thicknesses, starting with 1/64".



TURRET LUGS. With 2 soldering spaces for 2 or more connections. Stocked in 1/32", 1/16", 3/32", 1/8", 3/16", 1/4" sizes for standard phenolic terminal board thicknesses.

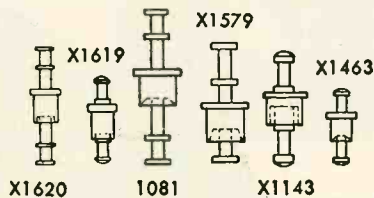


SPLIT LUGS (Knurled). For potted units where later soldering is advisable, as well as standard applications. Hole through shaft allows top or bottom wiring. To fit standard board thicknesses from 1/64" through 1/4".



DOUBLE END LUGS

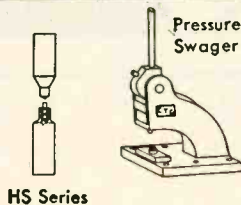
Provide terminal posts on both sides of board with through connection for easy wiring. For board thicknesses from 1/32" to 1/4". X1619 & 1620 shown half size.



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H. S. (Hand) Swagers are sold outright in sizes for any CTC Terminal Lug.

Pressure Swagers. Supplied with dies for one type terminal on loan basis. Extra dies or unit with dies may be bought outright.



HS Series

NEW CERAMIC* UNITS

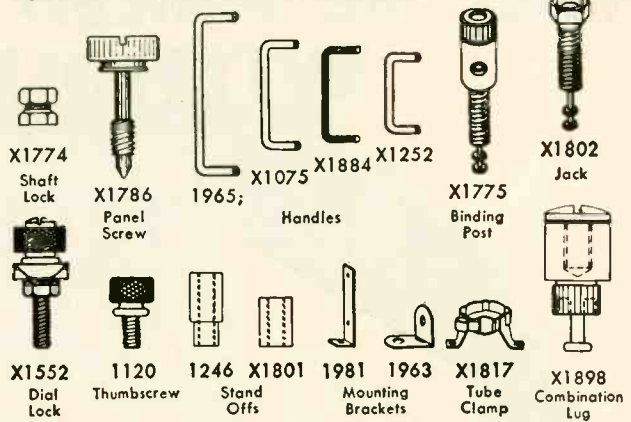
Insulated Terminals: X1942 is similar in size to phenolic unit X1581 (see above right). X1942Y is similar in size to phenolic unit X1580 (see above right).

Slug Tuned Coil Forms: LS6 is similar in size to phenolic unit LSM (see column at right). LS5 is similar in size to phenolic unit LS3 (see column at right).

LST Coil Form: mounted height under 5/8". Form diameter 3/16". Ring terminals of brass, silver plated; mounting bushings of brass cadmium plated. Adjustable powdered iron slug. Furnished as coil form or wound to specifications with either single-layer or pie type winding.

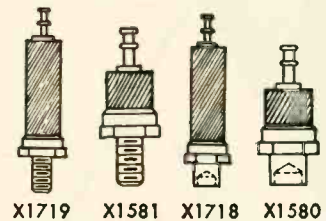
*Grade L-5 ceramic, silicone impregnated.

HARDWARE. Miscellaneous hardware as shown.



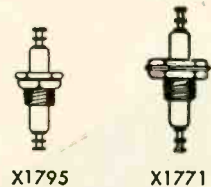
INSULATED TERMINALS

Two sizes in rivet or stud type, for high electrical stresses over broad humidity range. Phenolic insulator with X1558 Turret Lug. Voltage breakdown X1719, X1718, 11,000V at 60 cycles RMS. X1581, X1580, 6000V.



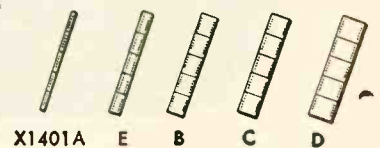
INSULATED FEED THROUGH

Ruggedly constructed to withstand vibration and shock without loosening. Approved XXX phenolic insulating material. Brass bushings, nickel plated. Brass through-terminals, silver plated for easy soldering.



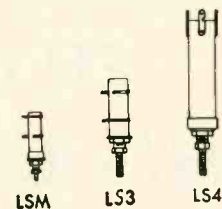
TERMINAL BOARDS.

Of laminated phenolic. Using #1724 lugs, board available in 4 widths: 1/2", 2", 2 1/2" and 3"; in 3/32", 1/8" and 3/16" thicknesses. Using X1558 lugs, 1 style available, 1 1/16" wide, in 1/16" or 3/32" thicknesses. All boards in 5-section units, scribed for easy separation. Each section has 10 lugs in 2 rows. (X1401A has 5 lugs, 1 row.)



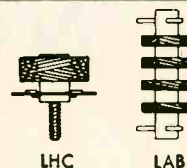
SLUG TUNED COILS.

Miniature variable inductors. LSM 27/32" high, LS3 1 1/4" high when mounted. Both in 5 standard windings (1, 5, 10, 30, 60 mc) also special windings or as high quality phenolic coil forms. Performance charts available. LS4 (coil form only) 2" high.



R. F. CHOKES. LHC — high Q iron core choke with 6-32 mounting stud, in 8 standard values from 2.5 mh to 125.0 mh.

LAB — Pie wound on phenolic core with cotter pin terminals in 8 windings from .75 mh to 15.0 mh. Current rating for both — 125 ma.



CUSTOM ENGINEERING

CTC Engineers will design Boards, Coils, and Terminal Lugs for production in quantity to fulfill whatever need may arise.

WRITE FOR CATALOG NO. 300

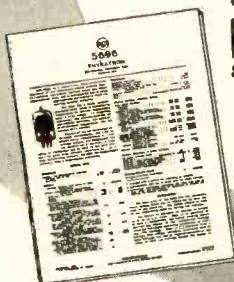
for complete information on these and other CTC Electrical and Electronic Components and Hardware. No obligation, of course.

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technical literature in the field

A Tube Handbook—All Types HB-3 (7 $\frac{3}{8}$ " x 5") The "bible" of the industry—contains over 2000 pages of loose-leaf data and curves on all RCA receiving tubes, power tubes, cathode-ray tubes, phototubes, and special tubes. Three de luxe 4-prong binders imprinted in gold. Available on subscription basis. Price \$10.00 including service for first year. Write to Commercial Engineering for descriptive folder and order form.

B Receiving Tube Manual—RC-15 (8 $\frac{3}{8}$ " x 5 $\frac{1}{2}$ ")—256 pages including a 15-page supplement on recently added tube types. Completely revised. Contains the latest receiving tubes, including kinescopes. Features tube theory written for the layman, application data and circuits for both AM and FM equipment, and an expanded Resistance-Coupled Amplifier Section. Price 35 cents.

C Radiotron Designer's Handbook—(9" x 6")—356 pages. Edited by F. Langford Smith of Amalgamated Wireless Valve Company Pty. Ltd. in Australia. Of value to anyone interested in fundamental principles of practical circuit design. Copiously illustrated. Price \$1.25.

D Power and Gas Tubes for Radio and Industry—Bulletin PG-101-A (11" x 8 $\frac{1}{2}$ ")—20 pages. Contains basic data on more

than 150 air-and-water-cooled transmitting tubes, rectifier tubes, thyratrons, ignitrons, and voltage regulators. Features brief descriptions, applications, terminal connection diagrams, and photos of representative types. Price 15 cents.

E Phototubes, Cathode-Ray and Special Types—Bulletin CRPS-102 (11" x 8 $\frac{1}{2}$ ")—16 pages. Contains basic data on 115 gas- and vacuum-type phototubes, cathode-ray tubes, camera tubes, low-microphonic types, acorn types, and other small tubes for special applications. Includes brief descriptions, applications, terminal connections, and photos of representative types. Price 10 cents.

F Receiving Tubes for AM, FM, and Television Broadcast—Bulletin 1275-E—24 pages. Completely revised and brought up to date. Contains characteristics on more than 450 RCA receiving tubes including kinescopes and a classification chart which lists all types according to function, and group types having similar characteristics and same cathode voltage. Socket connection diagrams arranged for quick and easy reference. Price 10 cents.

G Instruction Booklets—Complete authorized information on all RCA non-receiving tube types. Be sure to mention tube-type booklet desired. Single copy on any type free on request.

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RCA, Commercial Engineering
Section F43R, Harrison, N. J.

Send me the RCA publications checked below. I am enclosing \$..... to cover cost of the books for which there is a charge.

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- HB-3 Tube Handbook (\$10)* (A)
- RC-15 Receiving Tube Manual (35 cents) (B)
- Radiotron Designer's Handbook (\$1.25)* (C)
- Power and Gas Tubes for Radio and Industry (15 cents) (D)
- Phototubes, Cathode-Ray and Special Types (10 cents) (E)
- Receiving Tubes for AM, FM, and TV (10 cents) (F)
- Instruction Booklet on tube types (Free) (G)

*Prices apply to U. S. and possessions only.

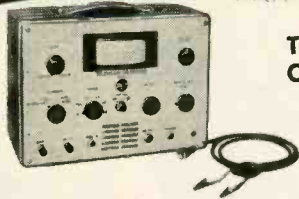


RADIO CORPORATION of AMERICA
ELECTRON TUBES

HARRISON, N. J.

RCA Measuring Instruments and Accessories

... for



Television Calibrator WR-39B

Has crystal-calibrated markers for all TV frequencies—crystal-controlled 4.5-Mc output for alignment of TV receivers employing intercarrier sound; crystal-controlled markers 4.5 Mc removed from main marker for TV rf and if alignment; crystal-controlled

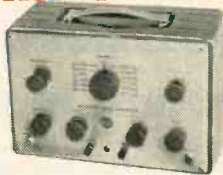
markers, 250 kc removed from main marker, for sound discriminator alignment. Provision for injection of external marker. Internal af and rf modulation of variable-frequency oscillator with range of 19-110 Mc in 4 bands and 170-240 Mc in 2 bands. Crystal-calibrated heterodyne frequency meter. Useful as bar-pattern generator for making linearity adjustments.



Standard VoltOhmyst* I95-A

The "work horse" of electronic meters. Measures ac and dc voltages to 1000 volts, resistance to 1000 megohms, in six ranges. Reads db at all audio frequencies. Has zero-center scale for discriminator alignment. 10-megohm dc input resistance insures good accuracy. WG-263 accessory crystal probe permits ac voltage measurements at frequencies up to 100 Mc.

Television Sweep Generator WR-59B



Covers all TV channels, on preset fixed positions, and in addition has a continuous tuning range providing for present and future intermediate frequencies from 0.3 to 50 Mc. The rf signal is frequency-modulated at the fundamental by a precision-type vibrating capacitor. Includes blanking circuit which produces a zero-reference line on CR tube. Has 10-Mc sweep for video and if bands, and 10, 7.5, or 8-Mc sweep for rf bands. Amplitude variation is less than ± 2 db. Piston attenuator has range of 20,000/1 maximum.

Audio Oscillator WA-54A



Has continuous frequency range of 20 to 17,000 cps. Output voltage variation under load is less than ± 2 db; distortion less than 5%. Has tapped output transformer for matching a variety of load impedances. Electron-ray tube serves as calibration indicator, output level indicator, and pilot lamp. Particularly suitable for measuring response of receivers and audio amplifiers, and for checking modulation characteristics of small transmitters.

Advanced VoltOhmyst* WV-75-A



A versatile electronic volt-ohmmeter for TV and VHF measurements. The full-wave diode probe, with fitting for direct connection to coaxial lines, permits measuring peak-to-peak rf voltages of sine waves or recurrent complex waves or pulses. Frequency response is flat to 250 Mc. Also reads RMS ac and dc voltages to 1000 volts and dc resistances to 1000 megohms. *Reg. U. S. Pat. Office.



Television Oscilloscope WO-57A

Uses 3" short-neck CR tube. Particularly useful for viewing and measuring square waves, sine waves, pulses, and TV sync signals. Has sensitivity of 30 millivolts or better per inch deflection. Frequency response of vertical amplifier flat within 2.3 db from zero to 500 kc. Employs frequency-compensated and voltage-calibrated attenuators, has calibrating voltage source. Has 60-cycle sweep with phasing control. Input capacitance less than 15 uuf with WG-214 accessory probe and cable kit.

Regulated Power Supply WP-23A



A high-quality unit designed for dependable, continuous service in shop, laboratory, and factory. Supplies zero to 300 volts, with regulated dc voltage over the range of no-load to full-load regulation, better than 1% for voltages above 50 volts. Output voltage is virtually independent of line-voltage variations as well as of load current variations. Ripple voltage is less than 8 millivolts. Delivers 120 ma over an output range of 120 to 300 volts. Insulated output terminals permit grounding of either positive or negative output terminal. Also can be used as a low-impedance "C" bias supply.

Ultra-Sensitive Dc Microammeter WV-84A



Useful for measuring very small values of current in research and industrial applications. Reads from 0.001 microampere to 1000 microamperes in six ranges. Also useful for measuring high values of resistance, or as a high-resistance voltmeter with a sensitivity of 100 megohms per volt. Accuracy, $\pm 5\%$ or better. Excellent for weak-current measurements in tubes, phototubes, multiplier phototubes, and dc bridges and similar low-current devices. Electronically protected, non-burn-out meter. Battery power supply.

research, production and service applications

Laboratory Oscilloscope 715-B

For detailed examination of extremely short, sharp-fronted pulses and unusual waveforms. Displays steady, clear traces even with random recurrence of signal. Triggered sweep is initiated by signal observed during that sweep. Has built-in time-marker generator, and input calibrating meter. Vertical amplifier is flat within ± 1 db from 5 cps to 11 Mc... horizontal amplifier within ± 2 db from 3 cps to 500 kc. Sawtooth time base 5 cps to 100 kc. Triggered time base repetition rate up to 10 kc.



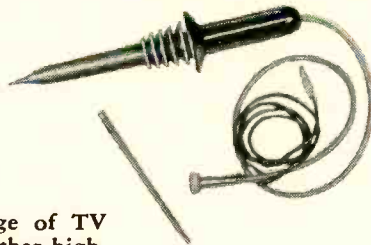
Laboratory Oscilloscope WO-79B

For detailed observation and accurate measurement of voltages produced by TV sync and deflection circuits, ignition waveforms, pulses, and radar signals. Will accurately display 1-microsecond pulses with extremely steep leading edges. Has triggered sawtooth sweep with delay network, two-to-one trace expansion, vertical amplifier flat from 10 cps to 5 Mc, calibrating meter for voltage measurements, built-in 2-microsecond delay line, intensifying and blanking amplifier.



High-Voltage Test Probe WG-289 or WG-290

For measuring voltage of TV power supplies and other high-voltage sources. Has six safety features, including anti-corona probe tip, completely insulated grip, and separate ground lead. Provides high input resistance for accurate voltage readings without loading circuit. WG-289 has microphone-type connector; WG-290 has phone-tip connectors. The following multiplier resistors available to adapt probes for practically all popular volt-ohm-meters: WG-206 . . . 1090 megohms; WG-207 . . . 991 megohms; WG-208 . . . 400 megohms; WG-209 . . . 480 megohms; WG-210 . . . 900 megohms.



Television Isotap WP-25A

A combination isolation transformer and auto transformer for safe servicing and testing of TV receivers. Provides *normal line voltage* for testing against rated specifications . . . *high line voltage* to show up intermittents and faulty components . . . *low line voltage* to test for faulty operation . . . *line isolation* to prevent shorts, shocks, or damage to test equipment . . . *line matching* from 105 to 130 volts, in 5-volt steps . . . *500 volt-amperes continuous output* from autotransformer winding, or 275 volt-ampere load from isolated secondary winding.



Rack-Adapter Panel WS-18A

For mounting any of the matched RCA Test Instruments—such as the WR-39B, WR-59B, etc.—in standard 19-inch relay racks. Adds convenience and standardization to industrial test setups. Dimensions, 10½" high, 19" wide, ¾" thick. Finished in umber gray.



Isotap WP-24A for Radio Servicing

Eliminates shock hazard between ac/dc chassis and ground . . . speeds detection of receiver faults with high-low line tests, and facilitates testing at 117-volt design-center value. Has six-position primary switch and three secondary receptacles.



For complete technical information on any instrument or accessory,
see your RCA Test Equipment Distributor, or write RCA,
Commercial Engineering, Section F42Y, Harrison, N. J.

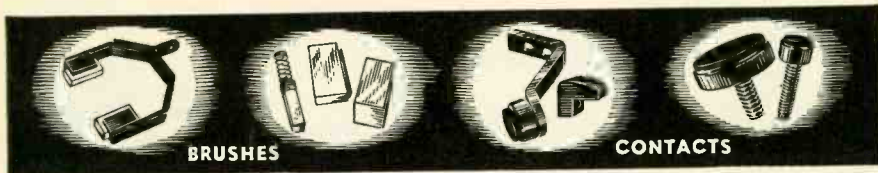


RADIO CORPORATION of AMERICA
TEST EQUIPMENT
HARRISON, N. J.



BRUSH AND CONTACT

Materials for Exacting Applications



The GRAPHALLOY family of metal-impregnated graphite brush and contact materials is specially designed for a wide range of applications requiring very low contact drop, very low electrical brush noise level or non-welding contact operation. Made by impregnating metals into solid graphite, they are inherently fitted for high speed, high altitude applications and for low-current circuits. Certain types are valuable for their arc-quenching characteristics in opening inductive circuits.

A few of the more commonly used types are given in the following table:

Material	LOW-METAL GRADES	
	Typical Current Density* Amperes per Square Inch	Typical Rubbing Speeds Feet per Minute
Silver GRAPHALLOY	100-150 and higher	5000
Copper GRAPHALLOY	90	3000
Cadmium GRAPHALLOY	75	4000
HIGH-METAL GRADES		
Copper GRAPHALLOY	100-125	3000
Special Copper GRAPHALLOY	150	3000

*Depending on brush size.

Silver GRAPHALLOY, the supreme brush material, is widely used in brush applications where low, constant contact drop and low resistance are needed and where a low electrical noise level is imperative. Its high quality results from the use of extremely pure silver for impregnation into the graphite. Adapted for high-altitude brush applications and for low current circuits. It operates best against coin-silver slip rings.

As a non-welding contact material, Silver GRAPHALLOY is valuable in circuits where a low and constant contact drop are necessary or where contact welding must be prevented.

Copper GRAPHALLOY — This material is widely used as brush material for small and medium sized motors and generators where long brush and commutator life are important.

As a contact, certain types are extensively used for arcing and main contact tips in circuit breakers and contactors.

Cadmium GRAPHALLOY — This material is particularly adapted for commutating or opening circuits which are subject to heavy inductive arcing. The arc quenching characteristics of

the Cadmium vapor which is released during arcing make this material very valuable for high duty contactors and for brush applications where wear conditions and arcing are severe.

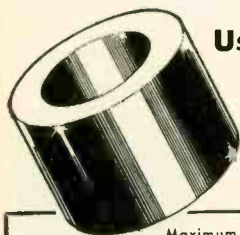
HIGH METAL TYPES

Copper GRAPHALLOY is extensively used for rotary converter slip ring brushes, plating generator brushes and for other applications requiring extremely high current carrying capacity with low or moderate friction.

Special Copper GRAPHALLOY grades have been developed for contacts which are required to carry extremely high operating current without overheating and without sacrificing arc-quenching qualities.

APPLICATION DATA

Upon receipt of a brief description of your contact or brush problem we shall be glad to suggest a suitable design and material. We suggest that you send the current and voltage conditions, proposed rubbing speed, commutator or slip ring width and material. Send for our special brush inquiry sheet which outlines the required information.



Use GRAPHALLOY for

OILLESS BUSHINGS

CHARACTERISTICS OF COMMONLY USED GRAPHALLOY GRADES

Material	Maximum Ambient Temperature	
	In Air	In non-oxidizing conditions
Babbitt GRAPHALLOY	300	300
Copper	700	1700
Bronze	600	600
Cadmium	250	550
Silver	700	1500

Coefficient of friction, .12 to .25, dry; .02 to .13 submerged.

Specify GRAPHALLOY materials which contain no oil and need no oil for efficient operation dry, submerged in liquids, or at extremely high or low temperatures where ordinary lubricants would carbonize, congeal or decompose.

Excellent for current carrying bushings.

Widely used for pump bushings and vanes, seal rings, stoker and high temperature conveyor bushings.

Ideal for use where ordinary bushing lubricants would contaminate food products.

Send for further information. Or, if you have a specific application, supply us the details of speed, load, shaft material and temperature conditions and we shall be glad to make recommendations or supply test samples.

Call on the accumulated design experience of our engineers for help in solving your problem.

GRAPHITE METALLIZING CORPORATION

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THE ONLY ONE OF ITS KIND

In which design engineers and purchasing agents will find a complete, accurate, and up-to-date list of the manufacturers of all types of electronic and allied products... components and complete equipment.

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WESTINGHOUSE TRANSFORMERS

FOR ELECTRONIC APPLICATIONS

Power • Plate • Filament • Pulse • Modulation

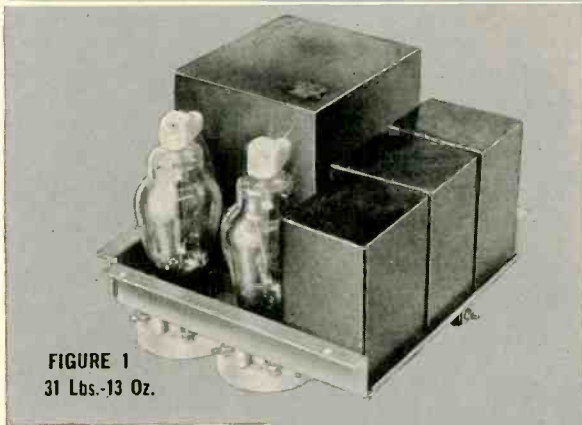


FIGURE 1
31 Lbs.-13 Oz.

The electronic gear shown in Figure 1 has conventional hermetically sealed transformer components. Figure 2 shows the weight and size reduction possible using Westinghouse Fosterite treated transformers with Hipersil cores on the same gear.

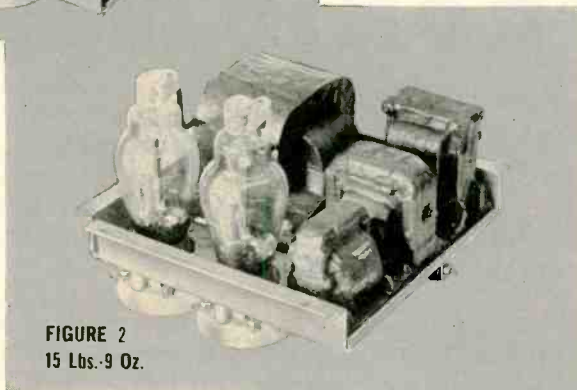


FIGURE 2
15 Lbs.-9 Oz.

HERMETICALLY SEALED

Small, light transformer components using Hipersil Cores, are now available—hermetically sealed and designed to meet the requirements of Government specifications. Ratings with higher operating voltages (3 KV and above; indoor) are equipped with bushings utilizing the exclusive Westinghouse SOLDER SEAL process—the best known means of hermetically sealing electrical apparatus. Lower voltage ratings have compression gasket bushing seals.

DRY TYPE

There are now available for indoor mounted power supplies of the electronic circuit, transformers which, for equivalent electrical rating, are much smaller and lighter than were previously available. These savings in size and weight are due to two developments:

1. Hipersil® Cores which permit higher flux densities (and consequently, less electrical steel and copper).
2. Class B insulating materials which can stand much higher operating temperatures than Class A. (This means less copper.)

Thus, where the A.C. operating voltage is less than 8.6 KV and the KVA capacity is less than 150 KVA, Dry Type plate transformers using Class B insulation which have proven to be the ultimate in safety and service for indoor applications save the electronic design engineer valuable space in his equipment layout. Write for Booklet B-4090 which lists these outstanding advantages of the Westinghouse Dry Type electronic transformers.

Custom built for applications in low and high power Radar, electronic control, R. F. Heating and AM, FM and Television Transmitters.

FOSTERITE® TREATED

For airborne applications of dry type electronic transformers, Westinghouse Fosterite treated transformers have excellent moisture resistance characteristics. In small sizes, such as blocking oscillator transformers, these units are designed to withstand temperature cycling and high humidity or moisture. The Fosterite process keeps moisture out for successful operation of the electronic equipment and makes it possible to save the weight of enclosing cans, potting compound, etc.

OIL INSULATED (Not illustrated)

Westinghouse has oil—or inerteen-immersed, self-cooled ratings—in all KVA sizes and voltage ratings. These are particularly applicable for installations where A.C. operating voltages are higher than 8.6 KV or where the rating is higher than 150 KVA. In three-phase ratings above 1000 KVA, tap changing under load equipment, mounted integrally with the rectifier plate transformer, is often desirable. Tap changing under load gives finger tip control of plate voltage from the control stations at the transmitter in smoothly adjustable steps over a wide range of plate voltages.

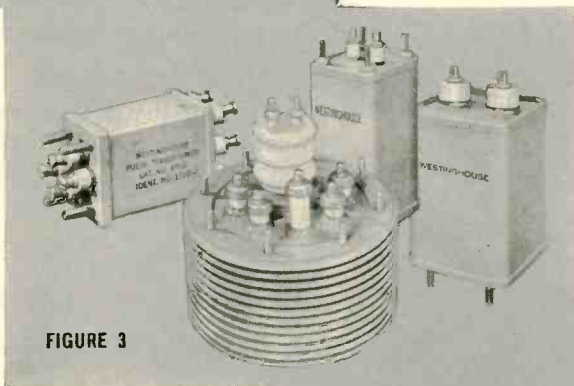


FIGURE 3

Figure 3—A typical group of hermetically sealed pulse transformers and chokes which were designed to meet requirements of government specifications.

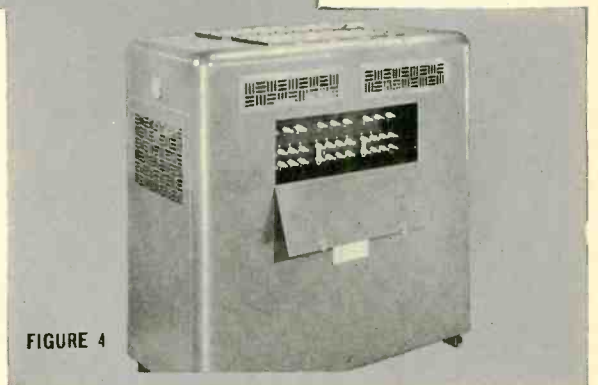


FIGURE 4

Figure 4—An enclosed dry type plate transformer for 50 kilowatt FM transmitter.



Westinghouse

SPECIALTY TRANSFORMER DEPARTMENT

WESTINGHOUSE ELECTRIC CORPORATION
SHARON, PA.



Quality Controlled Electronic Tubes

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- 2. QUALITY CONTROLLED ELECTRONIC TUBES.** From raw materials to finished tube, every manufacturing step is rigidly controlled and checked. This Westinghouse feature assures you of top performance.
- 3. REPLACEMENT TUBE SERVICE.** Westinghouse Distributors throughout the country will maintain, at no obligation to you, a "Personalized Inventory" of the tubes you use, ready for immediate delivery from local stock.



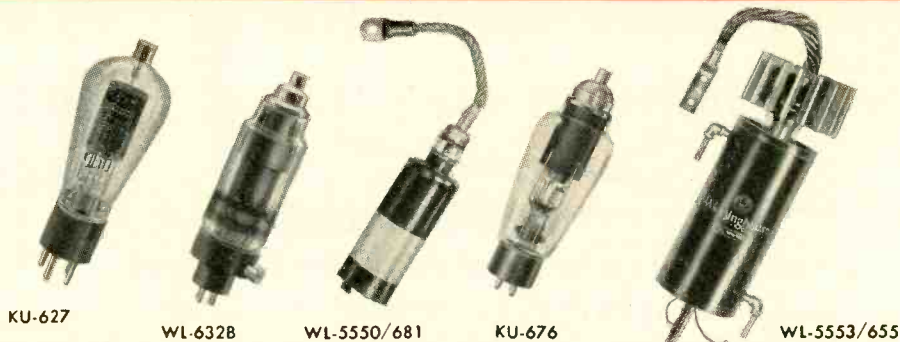
FOR COMPLETE INFORMATION SEND FOR THE . . .

Easy Guide

This Electronic Tube Guide lists tubes according to "family" classification and provides essential technical data on each tube. Send for your copy today. Electronic Tube Sales Department, Bloomfield, N. J.

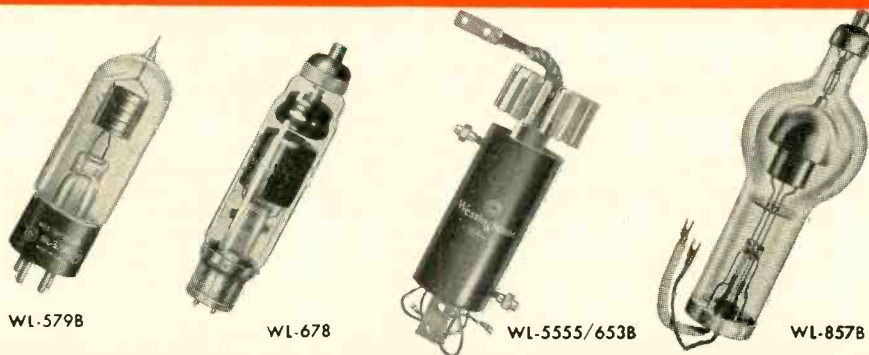
RESISTANCE WELDING

Resistance welders use two main types of tubes: Ignitrons to switch the welding current on and off, and Thyratrons to control the Ignitrons and "time" the switching to a split cycle. We carry a complete line of both types.



RECTIFIERS

To cover the various voltage and current ratings of electronic rectifiers, we carry a complete line of Kenotrons, Phanotrons, Ignitrons, and Thyratrons. These tubes are available at our local warehouse.



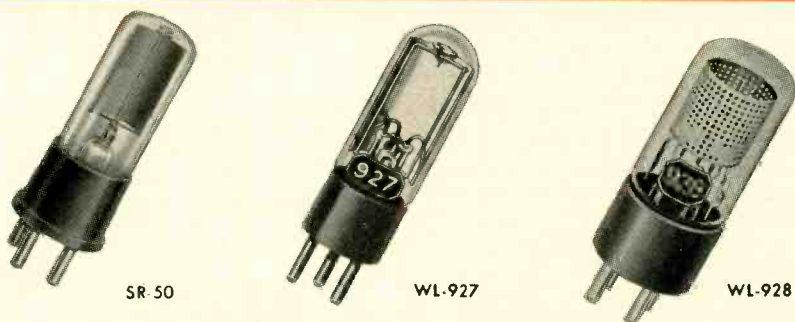
R-F HEATING

R-F heating means Radio-Frequency Heating. This type of heating is accomplished quickly and accurately by means of high-frequency radio waves. Our local stocks of tubes for R-F heating will help solve your tube replacement worries. Replacement tubes always available in stock.



PHOTOTUBES

Phototubes can convert visible, infrared or ultra-violet light into electrical current and thus perform many tasks tirelessly and with the utmost precision. Our complete line of phototubes is stocked locally.






Westinghouse *Quality Controlled Electronic Tubes*


How **ALLEN** **HEAD** precision fastenings apply to...


RADIO • TELEVISION • INSTRUMENT AND GENERAL ELECTRICAL MANUFACTURING




For greater strength: Allen  Head Screws permit the use of smaller sizes. For instance a No. 6 Allen  Head Cap Screw is equivalent to a No. 8 conventional screw.


For space economy: Allen  Head Screws permit closer spacing of screws, eliminate projecting heads.

For greater holding power: Allen  Head Screws are insurance against avoidable costly service operations.


In hard-to-reach places: Allen  Head Screws, plus Allen Hex Keys and Drivers start screws easily and save awkward "fingering in."

For fine adjustments, close, snug fit between key and screw permits delicate adjustments that stay put.

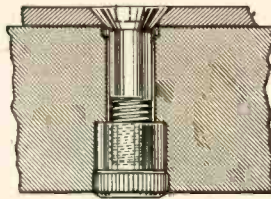
For tamper-proof settings in gauges and instruments, Allen  Head Screws can be set below surface and wax sealed.

If vibration is a factor, the precise Class 3 fit of Allen  Head Screws will build longer trouble-free life into the product.

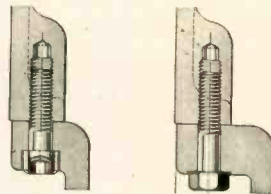
For a ready-made threaded hole, the new Allenut offers greater holding power and positive anchor in soft metals.


Allen  Head Screws are available as standard items in a wide range of sizes ranging upward from No. 4 x 1/8". NC and NF threads. Popular sizes also available in 18-8 non-magnetic stainless steel. Set screws stocked in cup, oval, flat cone and half dog points (full dog, special).

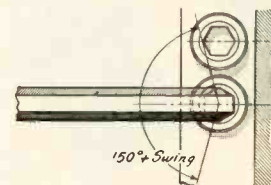
Sold only through leading distributors. Write the factory for technical information or regarding any special requirement.




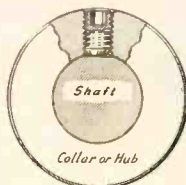
Allenut and Allen Flat Head Cap Screw used to hold thin metal plate to metal base. Allenut has been pressed into counterbored hole. Will not fall out or turn against driving action.



Allen  Head Cap Screws contribute to compact designing. Can be countersunk without allowing for wrench clearance.



Allen  Heads permit close spacing impossible with conventional heads.



Firm grip without the use of weak slots or projecting heads.

If you make one or more of these products..

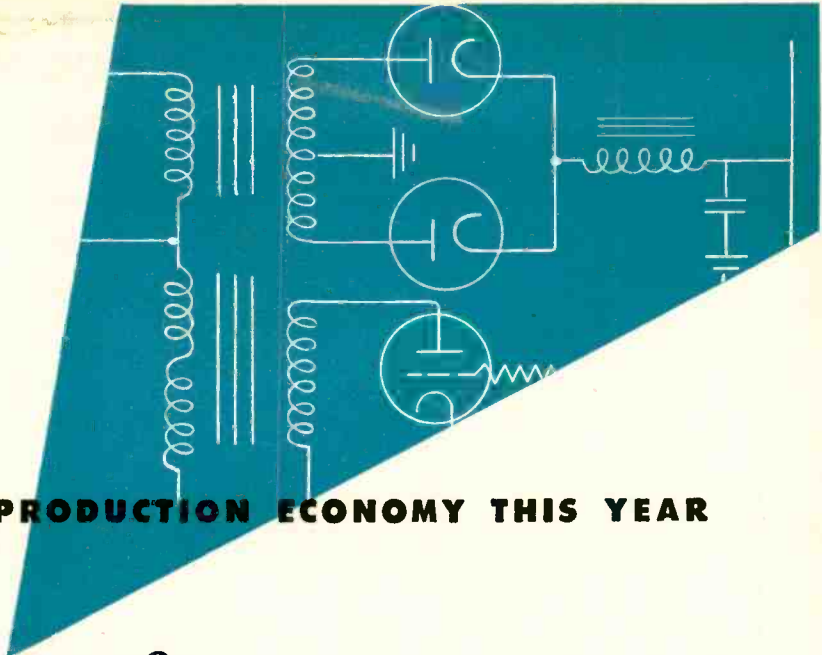
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BUSS Fuses

FUSETRON dual-element Fuses and Fuse Holders

for Protection of Radios, Instruments and Electronic Equipment

FAST ACTING FUSES for PROTECTION OF INSTRUMENTS, Etc.



Formerly called 8AG
Dimension $\frac{1}{4}$ x 1 inch, Glass tube.

Provide high speed action necessary to protect instruments. Test specification—carry 100%, open at 200% in 5 seconds.

AGX are listed as approved by Underwriters' Laboratories.

Voltage	Symbol	Amperes
or 250 less	MJB	$\frac{1}{2}$, 1, 2, 3, 4, 5, 6, 7, 8, 10, 15, 20, 25, 30
"	MJW	$\frac{1}{6}$ or $\frac{1}{8}$
"	AGX	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ or $\frac{1}{2}$
125 or less	AGX	$\frac{3}{4}$, 1, $1\frac{1}{2}$ or 2

BUSS FUSES — SFE STANDARD

Fuses of different amperages are of different lengths — to make it impossible to insert too large a size — thereby preventing over-fusing.



Glass tube — diameter $\frac{1}{4}$ inch. Length as per table below.

Voltage	Symbol & Amperes	Length Inches	Pounds per 100
32 or less	SFE 4	$\frac{3}{8}$	.70
"	SFE 6	$\frac{3}{4}$	.71
"	SFE 9	$\frac{7}{8}$	.72
"	SFE 14	$1\frac{1}{8}$	.77
"	SFE 20	$1\frac{1}{4}$	.83
"	SFE 30	$1\frac{1}{2}$	1.05

BUSS GLASS TUBE FUSES, $\frac{1}{4}$ x $1\frac{1}{4}$ inch



AGC and MTH 4, 5 and 6

MTH 8

Voltage	Symbol	Amperes
250 or less	AGC	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2 or 3
"	MTH	4, 5, 6 or 8
32 or less	AGC	5, 6, $7\frac{1}{2}$, 10, 15, 25 or 30

20 ampere size is an SFE 20 fuse.

BUSS CERAMIC TUBE FUSES, $\frac{1}{4}$ x $1\frac{1}{4}$ inch



Voltage Amperes
125 or less ABC 10, 12, 15 or 20

FUSETRON FUSES, $\frac{1}{4}$ x $1\frac{1}{4}$ inch



Glass tube —
Dual-Element type

A FUSE WITH A LONG TIME-LAG

These fuses avoid needless blows from starting currents or surges. They have a fuse link which operates only on very high overloads or short-circuits — they have a thermal cutout which functions on low overloads — the thermal cutout cannot operate quickly at any load, hence long time-lag is obtained. Yet protection is afforded against short-circuits or continued overloads.

Test specification—carry 110%, open at 135% in 1 hour.

Approximate blowing time: at 200% load 25 seconds

at 300% " 8 "

at 500% " 3 "

125 and 250 volt sizes listed as approved by Underwriters' Laboratories.

Shipping weight 0.9 lbs. per 100.

Voltage	Type	Amperes
250 or less	MDL	$\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{10}$, $1\frac{1}{2}$, 10, 20, 30, 40, 50
		$\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, 10 or 1
125 or less	MDL	$1\frac{1}{4}$, $1\frac{1}{2}$, 2, or $2\frac{1}{2}$
32 or less	MDL	$3\frac{1}{2}$, 4, 5, $6\frac{1}{4}$, 8, 10, 15, 20, 25 or 30

PIG-TAIL FUSES



Pig tail fuses are available in both ordinary and FUSETRON dual-element fuse types.

Write for full information.

BUSS FUSE CLIPS & CLIP ASSEMBLIES

for $\frac{1}{4}$ inch Fuses

(SFE 4, 6, 9, 14, 20 AGX, AGC, ABC, MDL, MJB, MJW, MTH fuses).



Spring bronze clips are made of Herculey. This metal gives great gripping strength and retains spring under adverse conditions.

Beryllium copper clips combine low electrical resistance with great gripping strength. This means cooler operation of clips and fuse.

4548 Spring bronze clip, nickel plated.

4592 Beryllium copper clip, Silver plated.

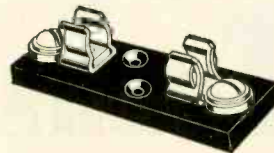


Assemblies consist of clip, terminal screw, brass terminal, and mounting screw.

4431 uses No. 4548 clip — described above.

4432 uses No. 4592 clip — described above.

BUSS FUSE BLOCKS



Blocks are made of bakelite with mounting holes. Clips are of spring bronze.

Fuse blocks are made in many sizes and types.

Tell us your requirements.

BUSS PANEL MOUNTED HOLDERS

for $\frac{1}{4}$ inch Fuses



Holders are inserted through hole in panel and locked in place by nut on holder. Can be used on panels up to $\frac{5}{16}$ thick.

Bayonet type knob requires only quarter turn to remove fuse. No screw driver is needed.

Normal current carrying capacity: 15 amperes.

HJM for $\frac{1}{4}$ x 1 inch fuses (AGX, MJB, MJW, SFE 14)

HKP for $\frac{1}{4}$ x $1\frac{1}{4}$ " " (ABC, AGC, SFE 20, MDL, MTH)

IN-THE-LINE HOLDERS

for $\frac{1}{4}$ inch fuses

These holders are for mounting fuse in wire. Holders consist of body and bayonet type knob — two contacts ready to be staked on ends of wire — a pressure spring that is used under contact in base of holder.

Holders can also be mounted in panel up to $\frac{5}{16}$ inch thick by means of a No. 9969 Spring nut (not furnished). Flat spot on holder permits it to be locked against rotation.

Normal current carrying capacity: 15 amperes.

Shipping weight, holders: 4 lbs. per 100.

Symbol

HDI for $\frac{1}{4}$ x 1 inch fuses (AGX, MJB, MJW, SFE 14)

Takes No. 18 or smaller wires.

HDI-A for $\frac{1}{4}$ x $1\frac{1}{4}$ inch fuses (ABC, AGC, MDL, MTH, SFE 20)

Takes No. 18 or smaller wires.

HDI-B for $\frac{1}{4}$ x $1\frac{1}{4}$ inch fuses (as above)

Takes No. 14 or 16 wires.

No. 9969 Spring nut for panel mounting above holders.

Holder-and-Fuse Assemblies

Assembly consists of holder, fuse and 19 inch loop of No. 14 wire already staked and soldered to terminals.



Offer simplest way to install protection. Wire can be cut to give leads of desired length. A spring nut, furnished with holder, can be used to mount holder on panel up to $\frac{3}{32}$ inch thick.

HRJ Complete with SFE 20 fuse

HRI Complete with SFE 14 fuse

HRH Complete with SFE 9 fuse

GET FULL INFORMATION

Ask for bulletin SFB on Small Dimension

BUSS FUSES — FUSETRON FUSES — HOLDERS

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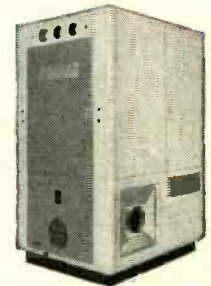
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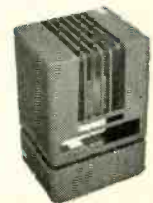
Desk Panel Cabinet Rack



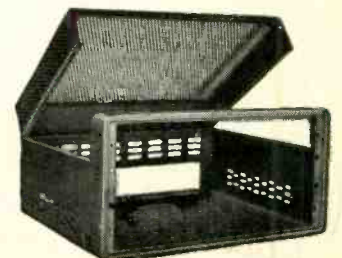
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Chassis



Marine Radio Housing



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How Karp Makes Custom-Built Metal Cabinets and Boxes at Prices that Compete with those of Stock Items

The advantages and true economies of Karp custom-built cabinets, boxes, or housings over stock items are these:

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- Plant is fully equipped with every mechanical facility that aids economical production.
- Finishing is done in dustproof paint shop, with latest water-washed spray booths and gas-fired ovens mechanically and electronically controlled.
- We make no stock items or products of our own. Our plant, time and effort are 100% for our customers' work.
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TERMINATIONS



874-WM 50-OHM TERMINATION — \$8.00. Provides good impedance match from D.C. to several thousand megacycles. SWR less than 0.6 db up to 2,000 Mc, 1.0 db up to 4,000 Mc



874-WN SHORT-CIRCUIT TERMINATION — \$3.50. A fixed shorting strap mounted in a connector



874-WO OPEN-CIRCUIT TERMINATION — \$3.00. A shielding cap for open-circuited lines

COUPLING ELEMENTS



874-LR RADIATING LINE — \$12.00. Short coaxial line with hole in outer conductor that can be partially or completely covered by a rotatable sleeve — for coupling to external wavemeter or heterodyne frequency meter

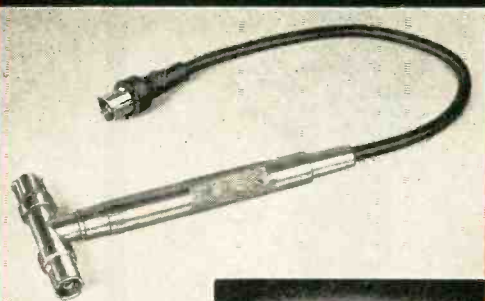


874-MA ADJUSTABLE COUPLING LOOP — \$7.50. One-turn loop on coaxial line — collet supplied for panel mounting

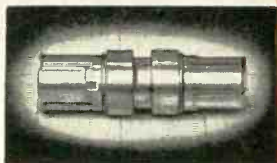


874-MB COUPLING PROBE — \$5.00. Binding post acting as a probe, mounted on connector

ATTENUATORS



874-GA ADJUSTABLE ATTENUATOR — \$55.00. Mutual-inductance (wave-guide-below-cut-off) type attenuator — attenuation is adjusted by turning sleeve — micrometer-type indication — direct reading in db



874-EF FIXED ATTENUATOR (20 DB PAD) — \$12.00. P-type resistance attenuator for frequencies from dc to several thousand megacycles

POWER MEASURING EQUIPMENT



1651-A BOLOMETER BRIDGE. For conveniently measuring h-f power by either d-c substitution or direct-reading method with the following three bolometer units:

874-H25* THERMISTOR UNIT (25 MW) — \$40.00

874-H100* THERMISTOR UNIT (100 MW) — \$40.00

Thermistors in coaxial holders with by-pass condenser — useful from 5Mc to several thousand Mc

874-HF* FUSE BOLOMETER HOLDER — \$34.00

Similar to thermistor units but for fuse bolometers — fuse assortment supplied

*External appearance of all three similar — illustrated at lower left

874-WL LAMP TERMINATION — \$5.00. Flashlight bulb for rough power indication — 50 to 100 mw (lower right in photo)

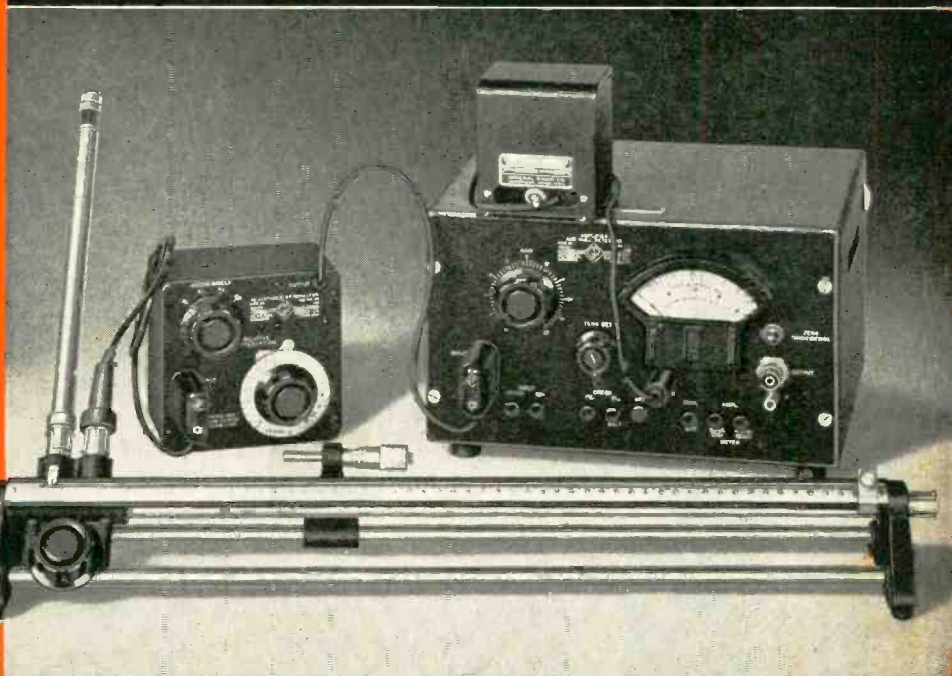
VOLTAGE MEASURING EQUIPMENT



874-VR VOLTMETER RECTIFIER — \$25.00. Crystal rectifier across short coaxial line — useful frequency range 15 Mc to 2,500 Mc — resistor in series with inner conductor provides 50-ohm source impedance — also useful as detector (illustrated at bottom)

874-VI VOLTMETER INDICATOR — \$65.00. Crystal current indicator and calibrator for Type 874-VR Voltmeter Rectifier. Range: 0.1 to 2 volts — regulated 60-cycle calibration voltage

STANDING-WAVE RATIO MEASURING EQUIPMENT



874-LB SLOTTED LINE — \$220. For measurements of standing-wave ratio and impedance — 300 to 5,000 Mc — variations in probe coupling along line less than $\pm 2\frac{1}{2}$ per cent — unique simplicity of design — detector: crystal rectifier supplied, or suitable receiver — Type 874-D20 Adjustable Stub shown in illustration plugged into slotted line (uses crystal) — slow-motion drive readily disengaged for free sliding

874-LV MICROMETER VERNIER ATTACHMENT — \$30.00. For measurement of high standing-wave ratios by the "width-of-minimum" method
1231-B AMPLIFIER AND STANDING-WAVE INDICATOR — \$210.00. Amplifies and indicates slotted-line crystal detector output in db
1231-P4 ADJUSTABLE ATTENUATOR — \$52.50. For increasing the range and accuracy of standing-wave measurements with Type 1231-B Amplifier
1231-P2 TUNED CIRCUIT — \$20.00. 400- or 1000-cycle filter; frequency selected by switch

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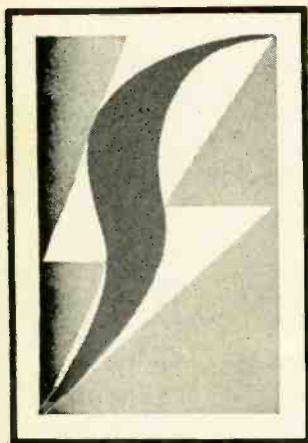
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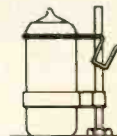
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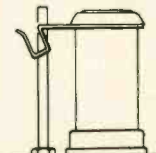
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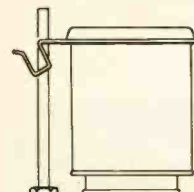
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For relays, condensers,
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Stainless steel clamps for plug-in units
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Give positive, resilient clamping action.

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Ward Leonard VITROHM Resistors maintain consistent accuracy and stability under even the most unfavorable operating conditions.

If the resistors in your equipment will be subjected to thermal shock, vibration, corrosive atmospheres, overloads, even prolonged exposure to humidity and electrolysis . . . select VITROHM and benefit from these Ward Leonard exclusives—

- (1) All components balanced in respect to thermal coefficient of expansion—hence, no loosening, no failure due to *unbalance*.*
- (2) Special Ward Leonard-made ceramic core pos-

sesses high density, low porosity and high dielectric.

(3) VITROHM vitreous enamel coating provides a complete hermetic seal, is hard, crazeless, yet extremely elastic, and an excellent conductor of heat.

From the complete line of Ward Leonard resistors, including those described below, select the type best fitting your needs and enjoy the confidence of knowing your product is more dependable because the resistor component is more dependable.

**Ward Leonard is the only manufacturer who makes (not just assembles) all the components of a resistor. (Wire drawn to Ward Leonard specifications.)*

fixed resistors

WATTS: 5, 10, 20, 25, 50, 100, 160, 200
OHMS: 1 to 150,000
SIZES: $1\frac{3}{4} \times \frac{5}{16}$ in. to $10\frac{1}{2} \times 1\frac{1}{8}$ in.

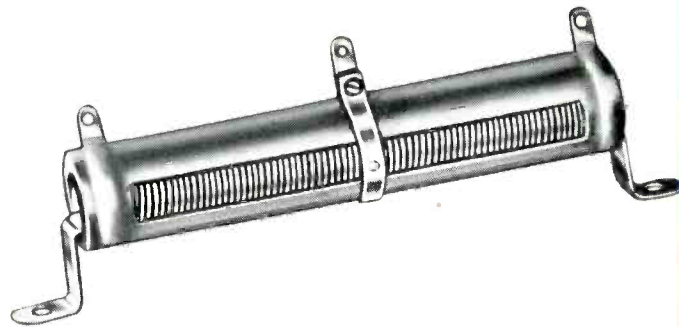


adjustable resistors ADJUSTOHM

The combination of high-quality wire, exclusive VITROHM enamel and Ward Leonard's extra care in manufacturing pays off particularly well in the case of adjustable resistors (which would otherwise be more susceptible to corrosion and damage). Wire turns are uniformly spaced and securely anchored. Contact points are rounded to make positive contact and yet avoid wire abrasion.

The ADJUSTOHM line comes in a complete range of resistance values and watt ratings.

WATTS: 10, 25, 50, 80, 100, 160, 200
OHMS: 1 to 150,000
SIZES: $1\frac{3}{4} \times \frac{9}{16}$ in. to $10\frac{1}{2} \times 1\frac{1}{8}$ in.

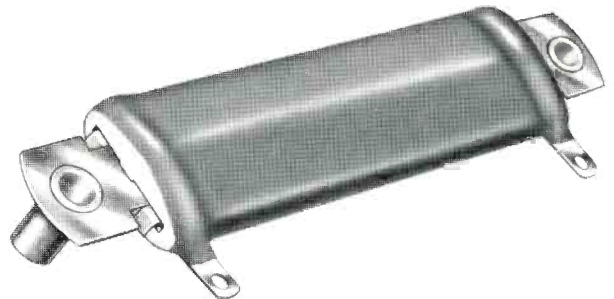


strip resistors STRIPOHM

For applications where space is limited, STRIPOHM gives high unit-space rating and extra strength. Elliptical shape increases strength. It also insures even and uniform winding because—with no sharp corners—the wire *hugs* the core shape. Greater surface area aids heat dissipation.

Combination of low mounting brackets and the arrangement of terminals facilitates multiple stacking.

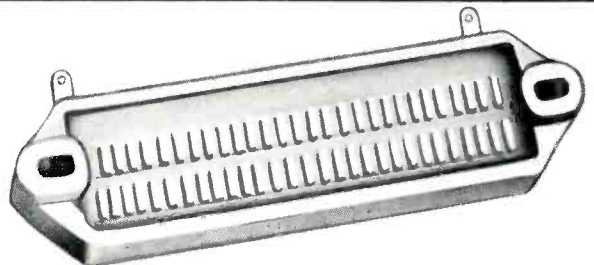
WATTS: 30, 40, 55, 65, 75
OHMS: 0 to 66,000
SIZES: $1\frac{1}{4}$ to 6 in. lengths



placque resistors

For use where very low values of inductance and distributed capacitance are required. Wire of low temperature coefficient of resistivity is arranged on a rectangular refractory plate and completely imbedded in VITROHM enamel.

WATTS: 20, 40, 125
OHMS: 0 to 33,000
SIZES: $3\frac{1}{16}$, $4\frac{5}{8}$, $5\frac{3}{4}$ in. lengths



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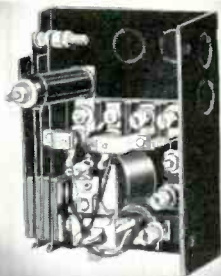
From the wide assortment of types and sizes in the Ward Leonard line of relays, you can easily select the one that will operate in your equipment with complete dependability.

Ward Leonard Relays are extra

sturdy to insure positive action and to prevent misalignment of parts by electrical or mechanical shock. They are built on molded phenolic or metal bases with posts securely anchored in the base.

Oversize silver-to-silver con-

tacts with high contact pressures and wiping action insure positive, low-resistance make and break. All parts are insulated against high voltage. Metal parts are plated for protection against corrosion.



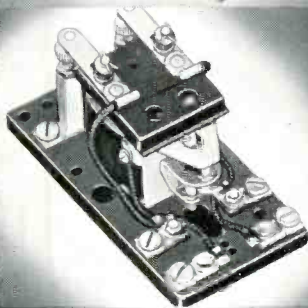
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type 353

Bi-metallic thermostat control automatically compensates for ambient temperature changes. Continuous-duty, low-power coils. Timing is adjustable over a range of 5 to 45

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Single pole, single break, double throw. Fully-enclosed. For 115 v, 60 Cy. AC operation. BULLETIN 353.

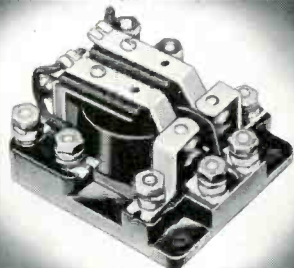


heavy-duty relays

type 130

All Ward Leonard 130 Relays are built to one basic design which permits using standard interchangeable components. This means—you can get what amounts to a *special* relay for the price of a standard.

TYPES—Single pole: single break or double break. Double pole: single break or double break with common feed. Three and four pole combinations. BULLETIN 130.



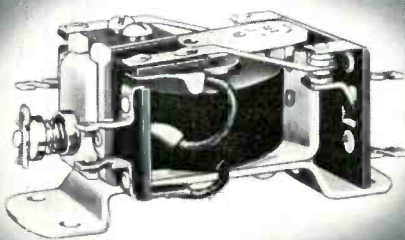
heavy-duty midget relay

type 105

This "mighty midget" is often used on jobs normally requiring heavier-duty relays. Certain types are approved by Underwriters as motor controllers. Unique spring suspen-

sion adds a self-cleaning action to the heavy silver-to-silver contacts.

Single pole—double pole. AC or DC. BULLETIN 105.



midget metal-base relay

type 104

A small compact relay that can be used in a wide variety of light-duty applications where space is limited. Two mounting types, front- and rear-mounted, for standard duty. Mounting frames are metal base and are insulated from the contact circuit. Contact fingers are flexible

spring material to resist vibration.

Rear-mounted relays have tapped bosses fitted to the metal base frame, considerably reducing overall dimensions.

Double pole, double throw. AC or DC. BULLETIN 104.



sensitive relays

type 250

For use where devices or equipments are to be controlled by relays capable of operating on low power.

Large knurled heads and hexagon nuts facilitate the adjustment of sil-

ver contacts and the tension on the armature.

Good contact torque at pick-up with crisp drop out. AC or DC. BULLETIN 250.

FOR FREE BULLETIN

Address WARD LEONARD ELECTRIC COMPANY, 21 South Street, Mount Vernon, N. Y. Offices in principal cities of U. S. and Canada.

WARD LEONARD ELECTRIC COMPANY

Result-Engineered Controls

RESISTORS • RHEOSTATS • RELAYS • CONTROL DEVICES

GENERAL RADIO announces a COMPLETE Integrated Line of U. H. F. Measuring Equipment

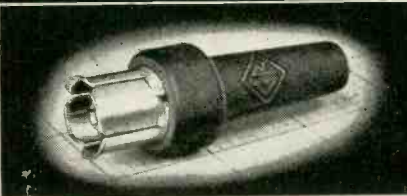
FOR MEASUREMENTS OF POWER • VOLTAGE • IMPEDANCE • ATTENUATION • STANDING-WAVE RATIO

These coaxial elements, each simple in itself, can be combined easily and quickly into many different measurement set-ups. A relatively small investment in these versatile parts provides equipment for most U.H.F. measurement problems. Characteristic impedance is 50 ohms wherever possible, and the Universal Type 874 Coaxial Connector is used throughout.

FOUNDATION ELEMENTS



874-B BASIC CONNECTOR — \$1.50
For use on rigid 50-ohm, air-dielectric coaxial lines



874-C CABLE CONNECTOR — \$2.00
For use on G-R Type 874-A2 Polyethylene Cable
874-C8 CABLE CONNECTOR — \$2.00. For use on Army-Navy Type RG-8/U Cable



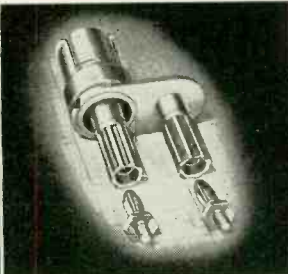
874-P PANEL CONNECTOR — \$2.25. For use on panels. Rear end fits Type 874-A2 Cable
874-P8 PANEL CONNECTORS — \$2.25 For use on panels. Rear end fits Army-Navy Type RG-8/U Cable



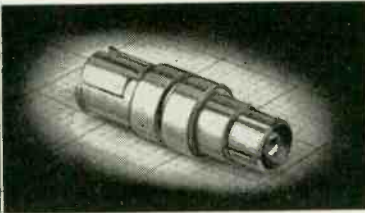
874-PC PANEL CONNECTOR WITH CAP — \$2.75. For use on panels. Hinged cap shields connector when not in use. Rear end fits Type 874-A2 Cable. **874-PC8 PANEL CONNECTOR WITH CAP — \$2.75.** Same as 874-PC except rear end fits Army-Navy Type RG-8/U Cable



874-Q1 ADAPTER TO TYPE N — \$6.00. Plugs into Army-Navy Type UG-22/U and similar jack-type connectors



874-Q2 ADAPTER TO G-R TYPE 274 — \$5.00. Makes output of a coaxial system available at pair of 3/4-inch-spaced binding posts or banana plugs



874-Q7 ADAPTER TO G-R TYPE 774 — \$5.00. Plugs into any G-R Type 774 Connector



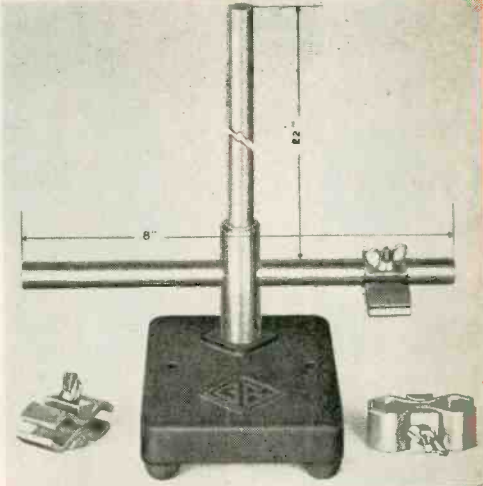
874-R20 PATCH CORD — \$8.00. Three feet of Type 874-A2 Polyethylene Cable with a Type 874-C Connector on each end
874-A2 POLYETHYLENE CABLE — \$0.50/ft., \$27.00/100 ft. Bulk cable — characteristic impedance of 50 ohms $\pm 5\%$ — double-shielded — good mechanical flexibility



874-R31 PATCH CORD — \$4.50. Three-foot, flexible coaxial cable terminated with Type 874 Connector and phone tips

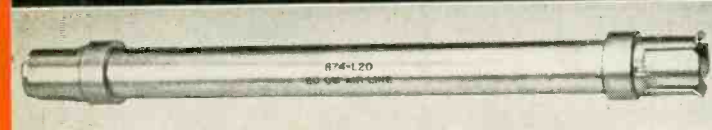


874-R32 PATCH CORD — \$5.25. Similar to Type 874-R31, with a Type 274-ND Shielded Plug in place of phone tips

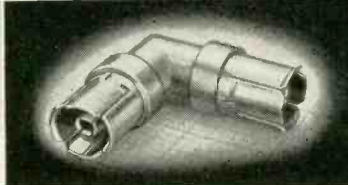


874-Z STAND — \$12.50. To support the parts of a wide variety of coaxial systems — heavy bronze base — 22-inch vertical and 8-inch horizontal brass rods — three universal clamps — no rust or corrosion

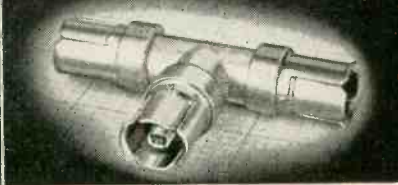
FIXED AND ADJUSTABLE LINE ELEMENTS



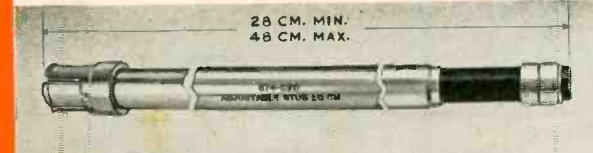
874-L10 50-OHM AIR LINE (10 CM) — \$10.00
874-L20 50-OHM AIR LINE (20 CM) (illustrated) — \$11.00
874-L30 50-OHM AIR LINE (30 CM) — \$12.00
To space stubs or other elements of a coaxial system



874-EL 90-DEGREE ELL — \$6.50



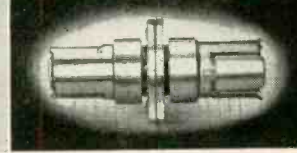
874-T TEE — \$8.50



874-D20 ADJUSTABLE STUB (20 CM) — \$15.00
874-D50 ADJUSTABLE STUB (50 CM) — \$16.00
For matching or tuning, and use as reactive elements. Coaxial lines with sliding short circuit moved by bakelite tube. Reference marker facilitates use as wavemeter with scale



874-LA ADJUSTABLE LINE (Line Stretcher) — \$18.00
Telescoping line — length change: 25 cm



874-JR ROTARY JOINT — \$8.50

FILTERS

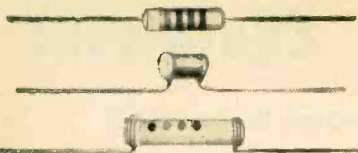
874-F500 500-MC LOW-PASS FILTER — \$22.50
874-F1000 1000-MC LOW-PASS FILTER (illustrated) — \$22.50
Used to improve accuracy by reducing harmonics from U.H.F. generators



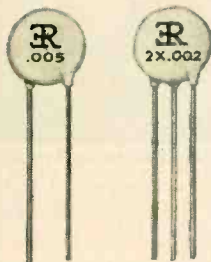
874-K COUPLING CAPACITOR — \$12.00
Short coaxial line with 0.005 microfarad capacitor in series with inner conductor — transmits h.f., blocks d.c.



GENERAL RADIO COMPANY



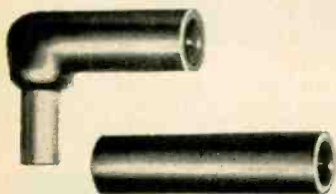
Erie "GP" Molded Insulated Ceramicons
5 MMF—5,000 MMF
Erie "GP" Dipped Insulated Ceramicons
5 MMF—5,000 MMF.
Erie "GP" Non-Insulated Ceramicons
5 MMF—5,000 MMF.



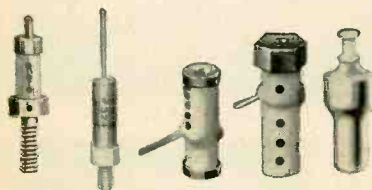
Erie Disc Ceramicons
Up to .01MFD



Cinch-Erie Plexicon Tube
Sockets with 1,000 MMF
built in by-pass condensers



Types L-4, L-7, S-5 Suppressors
for Spark Plugs and Distributors



Type 720A Types 323 and 324 Type 2322 Type 2336 Type 325
Insulated

Erie Stand-Off Ceramicons
5 MMF—5,000 MMF



Button Mica Condensers
15 MMF—6,000 MMF

Type 557
Ceramicon
Trimmer



1.5-7 MMF
3-12 MMF
5-25 MMF
5-30 MMF
8-50 MMF

Type 554
Ceramicon
Trimmer



Type 531 and 532
Tubular Trimmers
0.5-5 MMF
1-8 MMF



Type 535

Tubular
Trimmer
.75-3 MMF

Type TS2A Ceramicon Trimmer
1.5-7 MMF 3-13 MMF 4-30 MMF
3-12 MMF 5-20 MMF 7-45 MMF



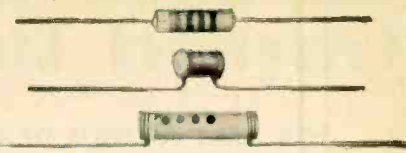
*For better
electronic products...*
**ERIE RESISTOR
COMPONENTS**

The dependability and accuracy to close tolerances required for Television and Broadcast applications are combined in Erie Ceramicons with compact design, tubular in form, for easy installation on the assembly lines.

Erie manufactures a complete line of Ceramic and Button Mica Condensers for transmitter and receiver applications: Carbon Suppressors, Custom Injection Molded Plastic Knobs, Dials, Bezels, Name Plates and Coil Forms. Our engineering department will work with you in developing specially designed components for efficient space-saving sub-assemblies. Complete technical information on request.

*Ceramicon, Hi-K, GP, and Plexicon are registered trade names of Erie Resistor Corporation.

Electronics Division
ERIE RESISTOR CORP., ERIE, PA.
LONDON, ENGLAND • TORONTO, CANADA



Temperature Compensating
Molded Insulated Ceramicons*
0.5 MMF—550 MMF

Temperature Compensating
Dipped Insulated Ceramicons
0.5 MMF—1,800 MMF

Temperature Compensating
Non-Insulated Ceramicons
0.5 MMF—1,800 MMF

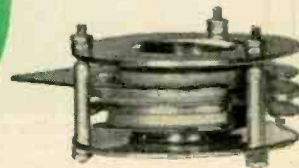


Type 357



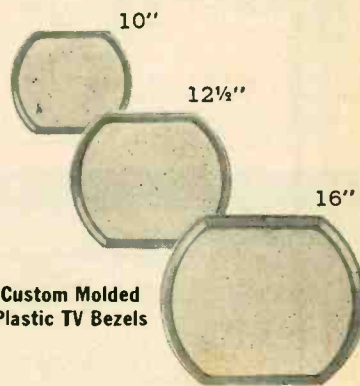
Type 362

Feed-Thru Ceramicons
5 MMF—1,000 MMF
5 MMF—1,500 MMF

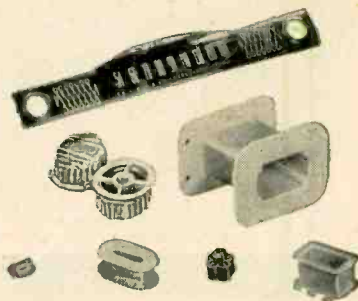


Type 3688

High Voltage Ceramicons
Up to 15,000 Volts
WORKING



Custom Molded
Plastic TV Bezels



Custom Injection Molded
Plastic Knobs, Dials,
Bezels, Name Plates,
Coil Forms, etc.

JELLIFF RESISTANCE WIRES are very much AT HOME IN A HOT SPOT

ALLOY	OHMS PER CMF	MAX. OP. TEMP.	WIRE DIAM. RANGE	FORMS†	USES
1000	1000	500°F	0.0010 0.0009	W-R	Compact, stable precision Resistors
KANTHAL*	872	2460°F	*	W-R-S	Ultra-High temp. continuous service
C	675	1700°F	0.2890 0.0008	W-R	Appliances and Resistors
A	650	2100°F	0.0410 0.0010	W-R	High-temp. Furnaces and Resistors
45	294	930°F	0.2890 0.0010	W-R	Precision Applications

†—W, wire—R, ribbon—S, strip.

*—several different alloys

Whether the *heat* is literal (up to 2460F), or figurative in the sense that performance under difficult conditions is a "must", we have an alloy for almost any conceivable requirement. The above Table may suggest possible applications to your products.

Complete Technical Data are available from Department 17.



Airtron DESIGNS AND PRODUCES

Airtron
INC.
105 East Elizabeth Ave., Linden, New Jersey
BRANCH OFFICES
Baltimore Los Angeles New York
Boston St. Louis Dallas Dayton

Manufacturers of Coils & Transformers

- I.F. Coils and Transformers
- Deflection Yokes
- Linearity and size Coils
- Peaking Coils and Plate Chokes
- Others from stock or specification

HILLBURN ELECTRONIC PRODUCTS, 55 NASSAU AVE., BROOKLYN 22, N. Y.

ELECTRONICS DIVISION

New Components to Speed Tube Assembly Operations

METAL EXHAUST TUBES. Television tube manufacturers faced with breakage and other tube exhaust problems, will welcome this new Superior development. Metal exhaust tubes offer these worthwhile advantages.

1—Quicker tip-off. Since no heating is required these metal tubes may be tipped-off faster than glass exhaust tubes.

2—No breakage. Good grain structure and the close dimensional tolerances to which these tubes are drawn eliminate splitting or cracking in the tip-off operation.

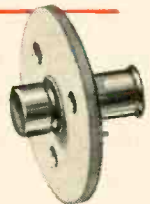


3—No danger of gas being drawn into tube during tip-off. The excess tube is severed *after* the sealing operation is complete.

ANODES—Type 305 (18-12) Stainless Steel, Nickel, Monel†, or Inconel† cylinders (#1 grid, #2 grid, anode), straight or angle cut, with rolled end, in lengths and diameters to your specifications. The industry standard is .500" \pm .0015" \pm .0005" I.D. x .010" \pm \pm .001" wall.



To these, add the following "old" features which have made the Superior assembly outstanding, and you have a product that is indeed "superior":



1—Double beaded construction for attaching the ceramic insulator to the nickel shank. This insures the minimum loss of heat, and gives you a construction that will not come loose during use.

2—The "E" dimension (distance between top of ceramic and top of emission cap) is held to the very rigid tolerance of \pm .0005". This cuts down considerably on the number of spacer combinations that have to be used, and means better cut-off characteristics.

3—The emission cap has no flange—does not touch the ceramic insulator at all—thus eliminating any additional danger of heat loss. This new, improved Disc Cathode is detailed in Superior print ED3—write for your copy.

DISC CATHODE ASSEMBLY—The Superior Disc Cathode, which has proved so satisfactory during the past several years, has been improved by the addition of the following *new* features:

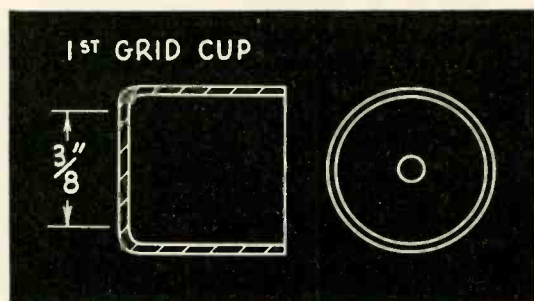
1—The end of the nickel shank opposite the emission cap has been given a slight flare. This insures much easier insertion of the coated heater wire and cuts down considerably on heater shrinkage.

2—The emission cap has been sand blasted, to assure better and more uniform adhesion of the coating.

DEEP DRAWN FIRST AND SECOND GRID CUPS—Superior's latest development—Deep Drawn Cups—for the first and second grids in television tube guns. The use of this one-piece construction means a considerable saving in time and materials, when compared to the two and three-piece constructions used heretofore.

Available in Type 305 (18-12) Stainless Steel, and in standard sizes, these grid cups are manufactured to Superior's usual close dimensional tolerances. They allow faster, easier assembly, give more uniform results.

The #1 Grid is detailed in Superior print EP-34 and the #2 in Superior print EP-35. Write for your copy today.



†U. S. Trademark—The International Nickel Co.

Export Representatives: Driver-Harris Company, Harrison, New Jersey, and affiliated European Companies • Harrison 6-4800

Superior

THE BIG NAME IN SMALL TUBING

all analyses .010" to 3/8" O.D.
Certain analyses (.035" max. wall) to 1 1/2"

SUPERIOR TUBE COMPANY

Electronics Division

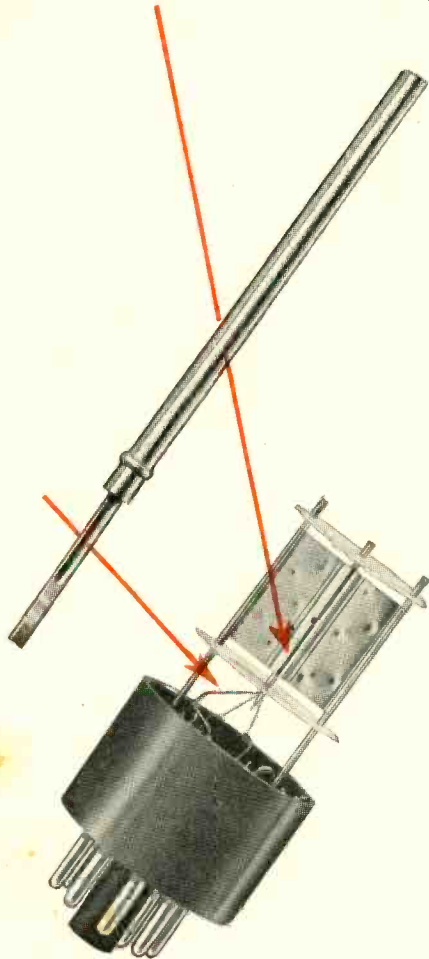
2501 Germantown Ave., Norristown, Pennsylvania

Superior

TUBE COMPANY

New Integral Tabbed Round Lockseam* Cathodes

FOR ELECTRON TUBE MANUFACTURERS



Newest Superior development in components for television and other electronic tubes, these LOCKSEAM cathodes are produced from thin nickel alloy strip stock by machines developed especially for the purpose.

The tabs are integral with the tube, eliminate the welding step hitherto required, and may save the tube manufacturers as much as \$1.00 per thousand cathodes, as well as speeding production.

They are available in the following alloys to meet specific requirements. (All numerical designations are those of The International Nickel Company (Inco), except those marked *D-H* which are Driver-Harris designations.)

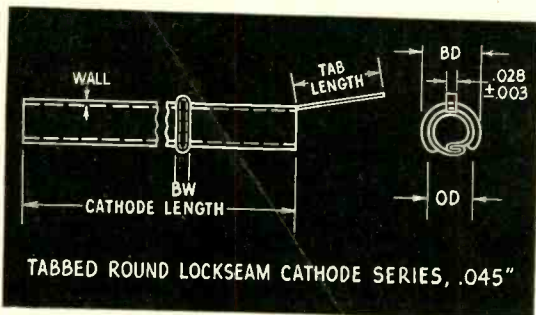
"ACTIVE" alloys for high level of DC emission: 225, D-H 599

"PASSIVE" alloys for freedom from grid emission (low rate of free barium yield): D-H 499, D-H 999

LENGTHS AND DIAMETERS AVAILABLE

The following Integral Tabbed Lockseam Cathodes are in regular production:

Superior Part No.	O.D.	Wall	Cathode Length	Tab Length	Used in Tube Type
LT45R2-7	.045"	.0021"	23 MM	9 MM**	6BA6
LT45R2-8	.045"	.0021"	27 MM	9 MM**	6SN7GT
LT45R2-9	.045"	.0021"	11½ MM	6½ MM*	6AL5
LT45R2-10	.045"	.0021"	23 MM	9 MM*	6BA6
LT45R2-11	.045"	.0021"	27 MM	9 MM*	6SN7GT
LT45R2-12	.045"	.0021"	11½ MM	6½ MM**	6AL5



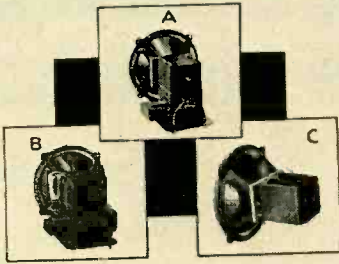
*Manufactured under U.S. Pats., S.T. Co.

*—Tab at beaded end of Cathode.
**—Tab at unbeaded end of Cathode.

Here is a reprint of the Rola ad run in the April 1930 issue of *Electronics*

UNITS FOR THEATERS, SCHOOLS, RADIO

A New Voice for the Electronic Industry



A This is the smallest of the Rola line of speakers. It is a power transformer series speaker with a 250 ohm impedance. It is used in portable sets.

B This is a 5" speaker with a power transformer series. It is used in portable sets and in some home sets.

C This is a 6" speaker with a power transformer series. It is used in home sets and in some portable sets.

Rola's research studies of Electronic tubes, combined a new and better speaker. A new power transformer series speaker for the electronic industry.

Another industry in Rola, which has revolutionized the transformer series of the industry with its transformer series.

Each time there is a new development in the art of engineering—always from a series of years—then which means "better" and "more" and the better quality speaker is the result.

It has required a great many years of research and development to get through with this. But these changes have come with a few years and will become a revolution in the world of business.

Through it all, Rola has steadily grown—continually producing quality.

THE ROLA COMPANY
 CLEVELAND, OHIO
 1970 East Superior Avenue

OAKLAND, CALIFORNIA
 Forty-fifth and Main Streets

ROLA

... HAS BEEN IN THE SPEAKER BUSINESS

Speakers

FOR *20* YEARS

A combination of fine products, plus fair prices and good service has enabled Rola to stay in business for two decades.

... today are

- SMALLER
- LIGHTER
- BETTER
- LOWER PRICED

THAN THEY WERE 20 YEARS AGO

Rola also makes a complete line of transformers for radio and television sets and also other component parts for TV receivers.

THE ROLA COMPANY INC.

Division of The Muter Company
 2530 SUPERIOR AVENUE • CLEVELAND 14, OHIO

Export: Ad. Auriema, Inc.
 89 BROAD STREET • NEW YORK 4, N. Y., U. S. A.

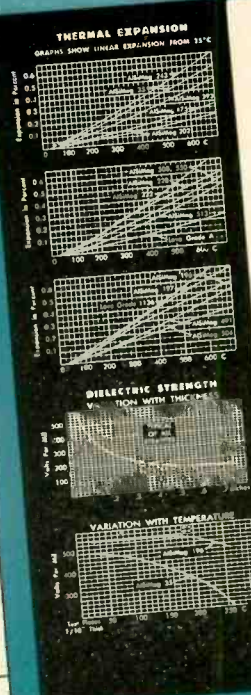
New Property Chart of ALSIMAG[®] TECHNICAL CERAMIC COMPOSITIONS

CHART No. 501 • MECHANICAL AND ELECTRICAL PROPERTIES OF ALSIMAG CERAMICS

VITREOUS CERAMIC MATERIALS

PROPERTY	POSSIBLE COMPOSITIONS											
	ALSiMAG 501	ALSiMAG 502	ALSiMAG 503	ALSiMAG 504	ALSiMAG 505	ALSiMAG 506	ALSiMAG 507	ALSiMAG 508	ALSiMAG 509	ALSiMAG 510	ALSiMAG 511	ALSiMAG 512
Thermal Expansion	[Graphical data showing expansion curves for various compositions]											
Dielectric Strength	[Graphical data showing dielectric strength vs thickness]											
Electrical Resistivity	[Graphical data showing resistivity vs temperature]											
Mechanical Properties	[Table of mechanical properties including strength, modulus, and hardness]											

AMERICAN LAVA CORPORATION, CHATTANOOGA 5, TENNESSEE



SELECTION CHART
BACK CHART ARRANGED ACCORDING TO PROPERTY VALUES. LOWER COST MATERIALS IN BOLD FACE.

TABLE LISTED AT 600 WEIGHTS PER SQUARE INCH

PROPERTY	ALSiMAG 501	ALSiMAG 502	ALSiMAG 503	ALSiMAG 504	ALSiMAG 505	ALSiMAG 506	ALSiMAG 507	ALSiMAG 508	ALSiMAG 509	ALSiMAG 510	ALSiMAG 511	ALSiMAG 512
Thermal Expansion	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Dielectric Strength	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Electrical Resistivity	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

sent free on request

American Lava Corporation, Chattanooga 5, Tennessee, has issued a new chart giving the mechanical and electrical properties of ALSiMag custom-made technical ceramics.

WHERE ALSIMAG IS USED
ALSiMag custom-made technical ceramic parts are extensively used as:

- Insulators for the electronic field • Insulators for electric appliances and other electrical applications • Thread Guides for textiles, wires, paper twine, etc. • Extrusion dies for such products as pencil leads, battery carbons, soft wires, explosives, etc. • Gas burner tips • Controlled atmosphere welding tips • Oil burner ignition insulators • Ceramics for hermetic seals • Metal-ceramic combinations • Air-acid jet nozzle inserts • Polishing heads for delicate final polishing operations • Cores and inserts for precision castings • Strainer cores for metal foundries • Cut-off cores for metal foundries • Refractory pins and plates in small sizes and special shapes • Work holders for electronic heating devices • As a replacement for parts made of plastic, wood or machined metal wherever a wear resistant part is required • In short, wherever electricity, heat, chemical or certain abrasive or friction conditions must be controlled.

WHAT ALSIMAG IS
ALSiMag is the trade name of a large family of technical ceramic compositions. These compositions have different physical, electrical, mechanical and chemical characteristics. ALSiMag ceramics are custom-made to specifications.

WHAT THE CHART TELLS
The chart covers seventeen of the more frequently used ALSiMag compositions and is the most complete chart yet issued in this field. A new feature is a selection chart which simplifies and speeds the selection of the most useful composition for the individual requirement. This selection chart indicates lower cost materials in BOLD FACE. This helps the product engineer to design for utmost economy.
Some properties, such as thermal expansion, dielectric strength, in relation to thick-

ness and temperature are presented in graphic form.

ALSIMAG COMPOSITIONS NOT ON CHART
Many special ALSiMag compositions have been developed to meet specific conditions. These are too numerous to chart. If chart indicates general characteristics of value, modifications to suit your special application may be available.

WHO NEEDS THE CHART
Designing engineers, production technicians or purchasing agents will find chart helpful in their search for materials for unusual applications.

HOW TO GET THE CHART
The ALSiMag Property Chart is sent free on request. Request as many copies as you need to cover your organization.

49TH YEAR OF CERAMIC LEADERSHIP

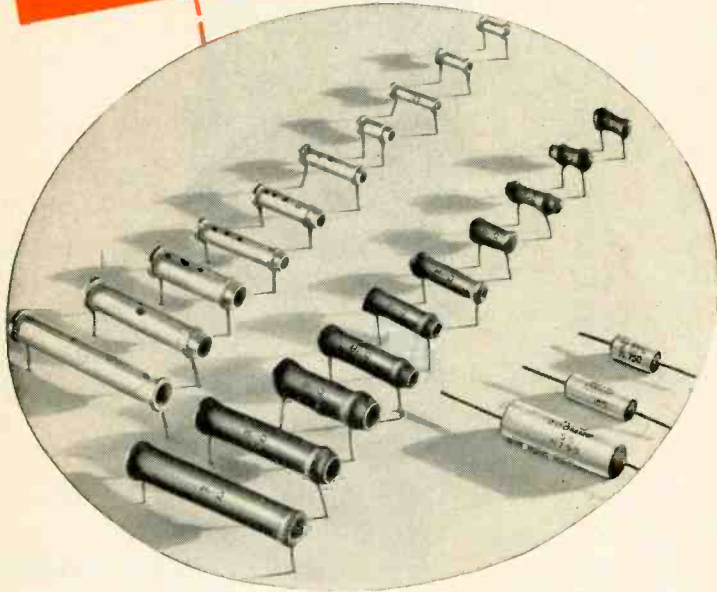
AMERICAN LAVA CORPORATION

CHATTANOOGA 5, TENNESSEE

OFFICES: METROPOLITAN AREA: 671 Broad St., Newark, N. J., Mitchell 2-8159 • CHICAGO, 9 South Clinton St., Central 6-1721
PHILADELPHIA, 1649 North Broad St., Stevenson 4-2823 • LOS ANGELES, 232 South Hill St., Mutual 9076
NEW ENGLAND, 38-B Brattle St., Cambridge, Mass., Kirkland 7-4498 • ST. LOUIS, 1123 Washington Ave., Garfield 4959

PRODUCED BY THE MILLIONS

Hi-Q



Hi-Q BC TUBULAR CERAMIC CAPACITORS

For coupling, by-passing and filtering where frequency control is not a critical parameter. Readily replace mica and paper condensers of corresponding value. (Not to be confused with Hi-Q close tolerance, temperature compensating units.) Available in capacity ranges from 5 mmf. to 33,000 mmf.

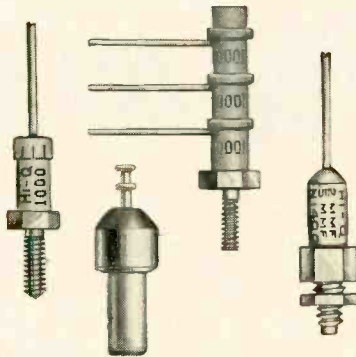
Hi-Q TEMPERATURE COMPENSATING CAPACITORS

Tubular ceramic construction with pure silver electrodes precision coated. Capacities from .25 mmf. to 1830 mmf. and a temperature coefficient range from P 100 to N 1400.

Insulation: Both Hi-Q BC Tubular and Hi-Q Temperature Compensating Capacitors are available with any of three types of insulation:—Clear non-hydroscopic styrene coating (CN) . . . Durez impregnated with low-loss microcrystalline wax (SI) . . . or a ceramic (Steatite) cover tube sealed with a specially developed end seal where applicable (CI).

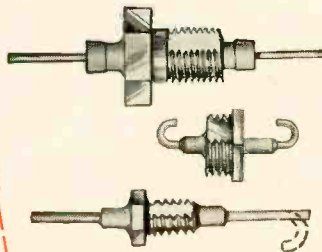
Hi-Q STAND-OFF CAPACITORS

Basically, these are tubular units with a screw fixture for mounting to chassis or common ground. Type MCS has a ceramic tube enclosed in husky cadmium plated metal case with a specially developed end seal for protection against humidity and temperature changes. Close coupling and their unique construction make them excellent for by-passing RF in the high frequencies. Standard capacity tolerances are $\pm 10\%$, $\pm 20\%$, and GMV for "stand-off" capacitors and -20% , $+30\%$, and GMV for multiple tap units. MCS has a capacity of 1500 mmf. ± 500 mmf. All units flash tested for 1000 volts DC, power factor under 3% maximum. Insulation resistance is above 10,000 megohms.



Hi-Q FEED-THRU CAPACITORS

Provide perfect transmission through shields or ground potentials and simultaneously by-pass unwanted frequencies. Extremely rugged to withstand severe vibrations such as those encountered in aircraft, missiles and automotive requirements.



Hi-Q HIGH VOLTAGE TUBULAR CAPACITORS

Available in capacities from 25 mmf. to 250 mmf. Units with working voltage of 3,000 V. D. C. are 1.840" in length and .375" in diameter. Units with working voltages between 500 V. D. C. and 3,000 V. D. C. can be slightly smaller. All are Durez coated and are selected from ceramic bodies having good dielectric characteristics.



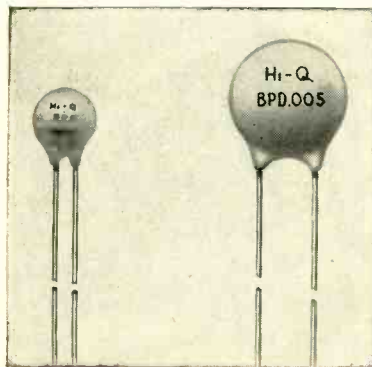
Hi-Q COMPONENTS

Capacitors
Trimmers • Choke Coils
Wire Wound Resistors

BETTER 4 WAYS

- ✓ PRECISION
- ✓ UNIFORMITY
- ✓ DEPENDABILITY
- ✓ MINIATURIZATION

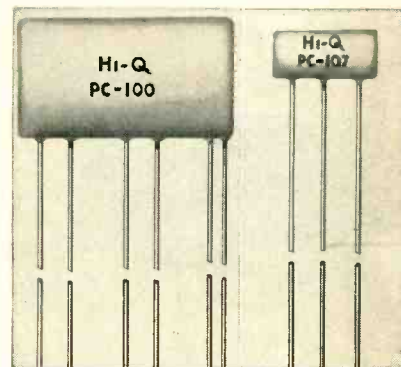
— by the top specialists in the ceramic field . . .



Hi-Q CERAMIC DISK & PLATE CAPACITORS

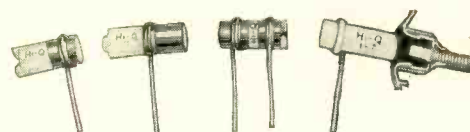
Hi-Q Disks are high K dielectric by-pass, blocking or coupling capacitors. Multiple capacities may be fabricated on a single disk to eliminate two or more conventional units. Insulated with Durez and high temperature microcrystalline wax for protection against moisture and high humidity. Available in a wide range of capacities and sizes.

Hi-Q Plates are essentially similar to Disks other than in shape. Multiple units do not require a common ground as do Disks and the number of capacities on a plate is limited only by the K of the material and physical size of the unit. Guaranteed minimum capacity values up to 33,000 mmf. per sq. in. are available.



Hi-Q TUBULAR TRIMMERS

Hi-Q Steatite adjustable, high-frequency capacitors are noted for their simplicity of design, mechanical strength and electrical stability. Available in two sizes: 1/2" with two capacity ranges, 0.5 mmf. to 3.0 mmf. and 1.0 mmf. to 4.0 mmf.; and 3/8" with capacity 1.0 mmf. to 6.0 mmf.



Hi-Q WIRE WOUND RESISTORS



Hi-Q Resistors are made by winding special resistance wire upon a high refractory ceramic core. Element is anchored at each end to copper terminals and silver soldered for good contact. Wattage rated according to dissipation of heat each Hi-Q Resistor will handle without exceeding 300°C (530°F) at its hotspot from a starting ambient temperature not exceeding 40°C (104°F).

Hi-Q NON-INSULATED CHOKE COILS



Hi-Q non-insulated choke coils are a solenoid type of winding on forms moulded from mineral filled moulding material, powdered iron cores, metallic oxides such as titanium, or on a steatite core. Available in many sizes.

Hi-Q INSULATED CHOKES



Available in various values insulated either by a Steatite cover tube or with Durez and high temperature crystalline wax, assuring maximum protection against high humidity and temperature change.

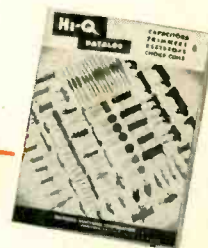
Hi-Q SPECIAL WINDINGS



Available in certain types and combinations of special windings. C and L combinations of capacity and inductance are available in many values.

Write FOR THE HI-Q DATALOG

giving complete details of these and other Hi-Q Components. Please feel free to consult our engineers at any time concerning specific applications. We assure you of complete and fullest cooperation.



JOBBERS — ADDRESS: 740 Belleville Ave., New Bedford, Mass.

Hi-Q

Electrical Reactance Corp.

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SALES OFFICES: New York, Philadelphia
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PLANTS: Franklinville, N. Y., Olean, N. Y.
Jessup, Pa., Myrtle Beach, S. C.

Browning INSTRUMENTS

Engineered for Engineers

The features described here are merely the highlights of this Browning equipment . . . write for data bulletins giving detailed specifications, circuit design, and operation of these instruments.

SWEEP CALIBRATOR



For use with oscilloscopes and synchrosopes. Model GL-22A accurately calibrates sweep time intervals. Markers provided at 0.1, 1, 10, and 100 microsecond intervals may be applied as deflection or as intensity modulation. May be triggered directly from OL-15B or ON-5.

OSCILLOSYNCHROSCOPE

An outstandingly versatile instrument. Model OL-15B combines the functions of oscilloscope and synchroscope for application in laboratory and industrial testing in television, facsimile, pulse modulation, radar, nuclear physics, and communications circuits. Wide-range amplifiers assure faithful reproduction of 100 KC square wave rising or falling at 500 volts per microsecond.



LABORATORY AMPLIFIER



Model TAA-16 is designed for use with square-law-detector probes and slotted wave-guides in determination of standing-wave voltage ratio. Operating frequencies 500 to 5000 cycles, wide band or highly selective. Full-scale readings with less than 15 μ -volts at input with wide band, 10 μ -volts with selective operation.

POWER SUPPLY

Comprising a regulated power supply and square-wave modulator for low-powered velocity-modulated tubes, Model TVN-7 is the basic unit for laboratory type micro-wave signal generator. Modulation is square-wave, FM, or pulse. Cathode voltage 280-480 volts, continuously variable, reducible to 180-300 volt range.



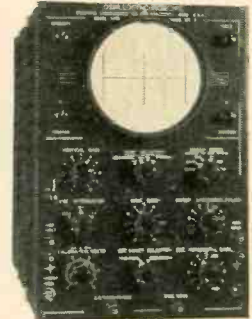
OJ-17 OSCILLOSYNCHROSCOPE



An oscillosynchroscope capable of producing satisfactory traces in work involving pulses of extremely short duration and in the study of complex wave forms having very high frequency components. The individual elements — 'scope, synchronizer, high-voltage power supply, low-voltage power supply, and control panel — are mounted in a standard vertical rack cabinet. Space is provided at the top of the cabinet for installation of a Fairchild Oscillorecord camera for making photographic records of 'scope traces. Vertical amplifier band width 16 Mc.; deflection sensitivity of .05 volts/inch at maximum gain; video delay circuit up to 0.2 microseconds. Horizontal amplifier band width 2 Mc.; deflection sensitivity .25 volts/in.

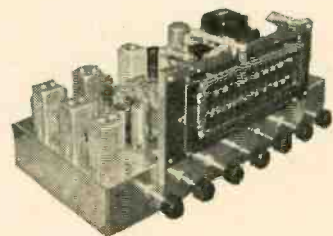
ON-5 OSCILLOSYNCHROSCOPE

A new low-priced instrument to serve as basic laboratory equipment for pulse and television work. Provides exceptional flexibility with 5 mc. bandwidth, high sensitivity, and sweep writing rate continuously variable over wide range; self-calibrating on X and Y axes; 5-inch 5U1 CR tube operates at accelerating potential of 2600 volts; sweep speed controls directly calibrated.



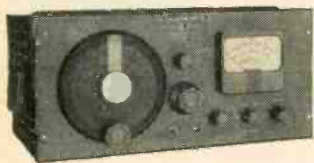
FM-AM AND FM TUNERS

The model RJ-20 FM-AM tuner, built to meet highest performance requirements has Armstrong FM circuit, full frequency response to 15,000 cycles. Separate RF and IF for AM and FM, 9 kc. and 4 kc. bandwidths. Two-stage audio system, 20 db. boost in bass or treble.



●For use with existing high-fidelity audio systems: Model RJ-12A FM-AM Tuner; Model RV-10 FM Tuner.

FM MODULATION MONITOR



Model MD-25 . . . for monitoring the modulation of all FM transmitters operating in the communications bands from 30 to 162 Mc. A simple and inexpensive means for checking fixed or mobile transmitters for compliance with FCC plus-or-minus 15 KC. limit and for reduction of adjacent-channel interference. Ranges: 30-40, 40-50, 72-76, 152-156 Mc.

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9 Rockefeller Plaza
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New York 20

In Canada, address
Measurement
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Amprior, Ontario



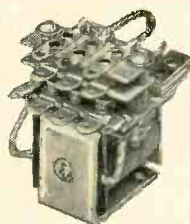
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TV CENTERING MAGNETS AND FOCUS COILS

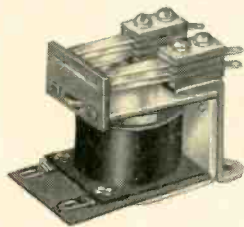
- NEAT**
- EFFICIENT**
- EASY-TO-SERVICE**
- VIBRATION-PROOF**



SERIES 335 RELAY



SERIES 595 RELAY



SERIES 610 AC—615 DC RELAY



THE SCREW TERMINAL TYPE



THE A. N. CONNECTOR TYPE



THE OCTAL PLUG TYPE



THE LUG HEADER TYPE

Valuable information on **HERMETICALLY SEALED** Guardian Relays is yours for the asking. Write on your business letterhead for new completely descriptive and illustrated Catalog 5-H. No cost. No obligation.

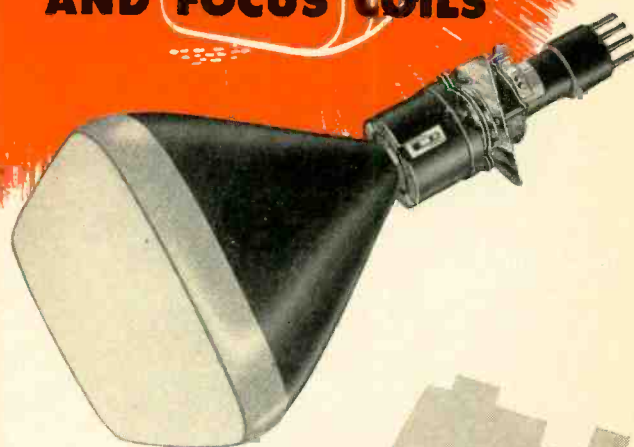
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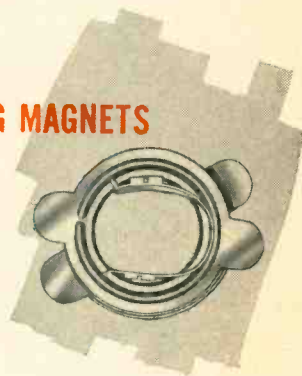
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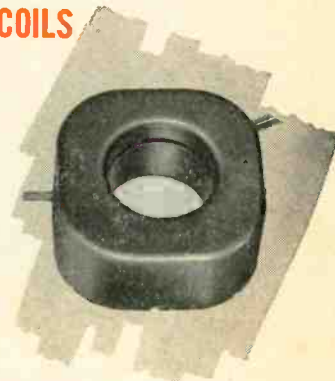
GUARDIAN CENTERING MAGNETS

The Guardian Centering Magnet compensates magnetically for any misalignment of the electronic beam or the focus coil assembly. Eliminates manual adjustment of the raster.



GUARDIAN FOCUS COILS

Over a million Focus Coils have rolled off Guardian's production lines into TV sets of leading manufacturers. With more than 75 types established as *Guardian Standard*, speedy delivery to meet today's replacement needs is a matter of routine.



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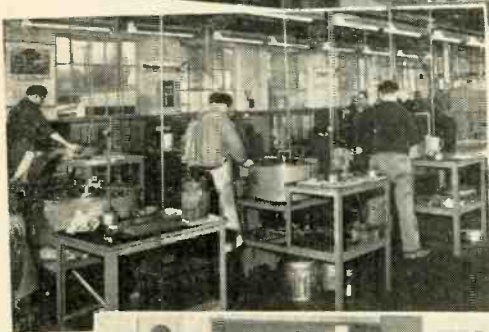
"Custom Built" CRYSTALS



INSPECTING INCOMING QUARTZ

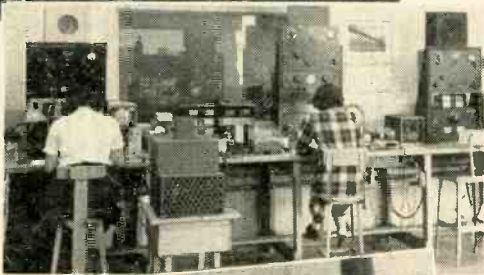


QUARTZ CUTTING SAWS



HOFFMAN PLANETARY LAP MACHINES

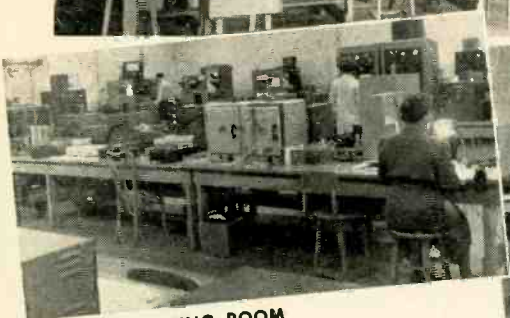
The most up-to-date laboratory, engineering and production facilities are available to you at Reeves-Hoffman for the manufacturing of crystal units to meet your exacting requirements. Whether your problems involve research and development work or production, feel free to contact us. Write, wire or phone for complete information on Reeves-Hoffman facilities. Ask for your copy of our facilities brochure.



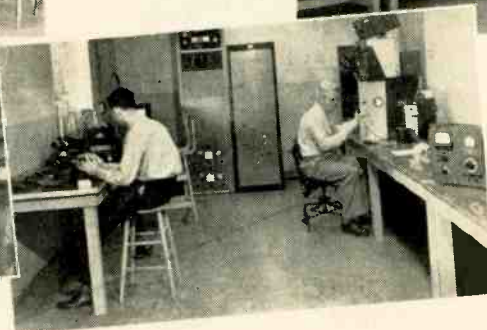
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CRYSTAL FINISHING ROOM



THE SHIELDED ROOM

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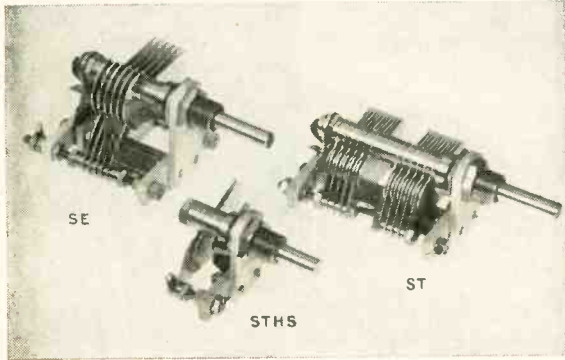
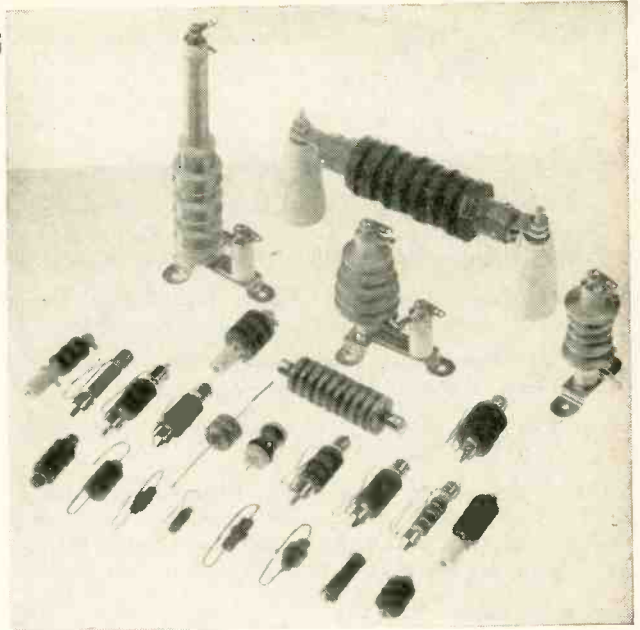
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RF CHOKES: R-100 Series available in 2.5, 5 and 10 mh, rated at 125 ma. Various mounting provisions include pigtail leads, removable or non-removable stand-off insulators—end studs threaded • R-300 Series similar to 100 but have a higher current capacity • R-33 Series are two-sectioned in 10, 50, 100 and 750 μ h. Also includes single layer solenoid choke of 1 μ h. All rated at 33 ma • R-50 Series are 3 and 4 sectioned in 0.5, 1, and 2.5 mh. Rated 50 ma • R-60 Series, High current (500 ma) in 2 and 4 μ h • R-152 is used between 2 and 4 mc: for high power transmitter stages (80 meter band) • R-154 Series for 20, 40 and 80 meter • R-175 Series for parallel feed and series feed in transmitter with plate supply up to 3000 v modulated or 4000 v unmodulated.

RF CHOKES BUILT TO SPECS: Regardless of the most rigid requirements we have both the facilities and engineering staff for the quantity production of RF chokes of practically any type. Send us your specs for prices and delivery date.



RECEIVING CONDENSERS: ST Type has Straight-Line Wavelength plates. SS Type has straight-line capacity plates. All double-bearing models have front bearing insulated to prevent noise. On special order a shaft extension at each end available for ganging. On double-bearing single shaft models rotor contact is through a constant impedance pigtail. Steatite insulation. SE TYPE in 2 rotor bearings. Front bearing insulated to prevent noise. Shaft extension at each end for ganging available on special order. Single shaft extension models have rotor contact through a constant impedance pigtail. SEU TYPE is suitable for high voltages.

Type	Max. Cap.	Min. Cap.
SE	50-150 mmf.	9-13 mmf.
ST	35-150 mmf.	6-10.5 mmf.
STHS	15- 50 mmf.	3- 3.5 mmf.

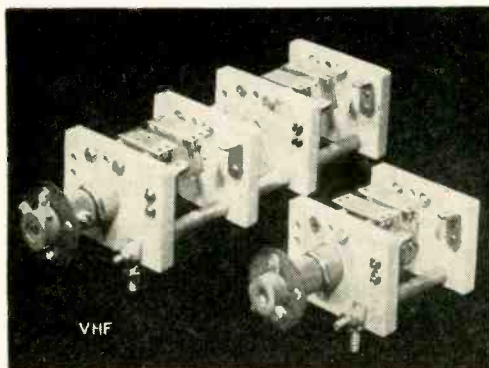
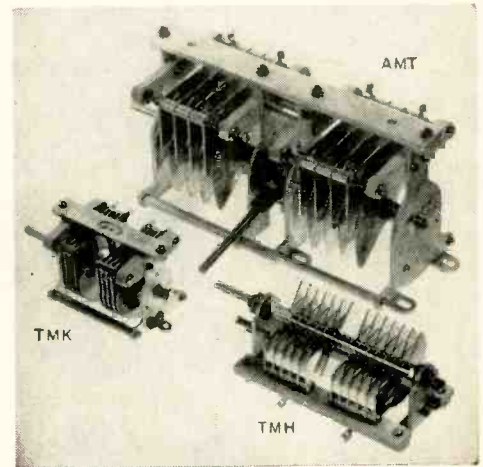
TRANSMITTING CONDENSERS

National manufactures transmitting condensers for practically all applications. In addition to the 2 described below there are Type TMS; for transmitter use in low power stages: TMK; for exciters and low power transmitters: TMH; features compact construction, excellent power factor and mounts on panel or removable stand-off insulators: TMC; is used in power stages of transmitters where peak voltages do not exceed 3000 v.

TYPE LMT: Heavy duty type. Completely eliminates troublesome closed loops. Simplifies problem of unwanted harmonics. Rotor shaft completely insulated from end plates. Long leakage path. Plates and parts designed to prevent flashover. Available in single-stator, double-stator, or double-stator right angle center drive models.

TYPE AMT: Frame is extremely rigid with mounting feet a part of the end plates. Heavy steatite insulation. Solid aluminum type bar across top of condenser acts as a mounting for AR-18 series coils in double stator models. Double stator models available in either standard end drive (D Series) or center drive (DG Series) with 1/4" dia. Shaft extension.

Type	Max. Cap.	Min. Cap.
TMS	100-300 mmf.	9.5-15 mmf.
TMK	35-250 mmf.	7.5-11.5 mmf.
TMH	50-150 mmf.	9-18 mmf.
Single Section AMT, TMA, TML	50-500 mmf.	13-60 mmf.
Double Section AMT, TMA, TML	50-50 to 200-200 mmf.	10-10 to 30-30 mmf.



VHF CONDENSERS: Shaft extension at rear for ganging purposes. Dual condensers ideal for mixer-oscillator unit. Ball bearings front and back for easy rotation and freedom from back-lash • Stators, rotors, and stator strap connections silver-plated for best efficiency • Rigid square construction, heavy isolantite end plates • Spade bolts allow solid connections to chassis for extreme rigidity • Flexible insulating coupling available to connect condenser shaft to 1/4" dial shaft or to connect 2 or more condensers together as ganged units • High capacity single spaced units for general coverage • Low capacity double spaced units for band-spread, suitable for ham use, particularly in VHF and UHF ham bands • Stators solder construction can be removed and replaced by strap tanks for special VHF and UHF application.

Capacity Per Section Stator To Stator			
Type	Spacing	Max.	Min.
VHF-2D	Double	6.75 mmf.	3.0 mmf.
VHF-1D	Double	6.75 mmf.	3.0 mmf.
VHF-2S	Single	22.5 mmf.	3.0 mmf.
VHF-1S	Single	22.5 mmf.	3.0 mmf.

DIALS AND KNOBS

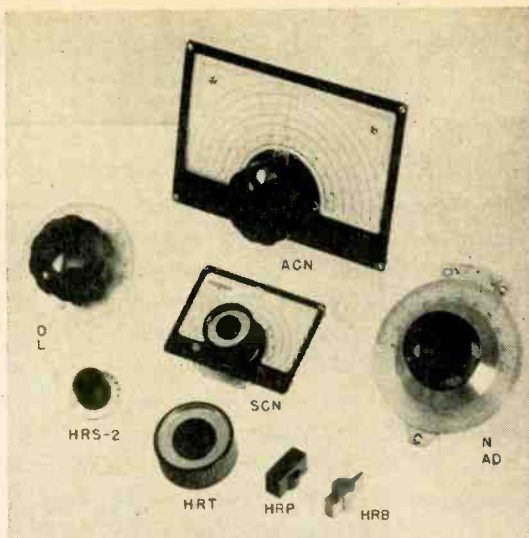
N and AD DIAL Four-inch N has engine divided scale and decimal vernier. AD has die stamped scale and employs a pointer. Planetary drive ratios of 5 to 1 contained within body of dial. Blank or calibrated scales available. Fits 1/4" shaft.

ACN DIAL Original of this type dial. A National design for manufacturers and experimenters who build their own and desire direct calibration 5" H x 7 1/4" W.

SCN DIAL Provides same dial scales as ACN but smaller. Used for panel-mounting space economy or where smaller dial is desired.

HRT KNOB Gray or black. 2 1/8" in dia. Fits 1/4" shaft. Has a chrome appearance circle for the modern look.

HRS KNOB Easy to grip knob molded of high quality plastic. 1 3/8" dia., chrome plated bevel skirts fit 1/4" shaft. Following scales available: On-off, through 30°; 5-0-5, through 180°; 0-10, through 300°; single etched line; and 0-10 through 180°. Special colors in quantity are available.

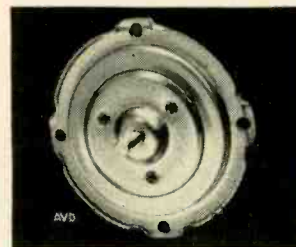


Illustrations and description shown above constitute only a small portion of complete line. Details on request.

VERNIER MECHANISMS

TYPE AN A vernier mechanism ratio 5-1 has an insulated output shaft coupling for 1/4" shafts. Drive shaft fits 3/16" knob.

TYPE AVD Similar to AN. Output shaft coupling is non-insulated. There are many variations of the above types available for use in commercial or industrial applications. Complete details will be provided upon request.



NATIONAL SOCKETS



CRYSTAL SOCKETS



SC-1, SC-2 and SC-3 are crystal mounting sockets for crystal holders with mounting pins spaced 0.5000", 0.486" and .750" and pin dia. of 1/8", 3/32" and 1/8" respectively. Steatite insulation. Single screw mountings for all models. SC-4 Ceramic crystal socket with clamp. Pin spacing .500". Pin dia. 1/32".

SOCKETS:

CIR Series feature low-loss steatite insulation, a contact that grips tube prong for entire length, and metal ring for 6 position mounting.

XC Series: Wafer sockets with exceptionally good contacts and high current capacity plus low-loss steatite insulation. Locating groove makes tube insertion easier.

HX-29: Low-loss wafer socket, steatite insulation for 829 and 832 tubes.

JX-51: Low-loss steatite wafer for tubes with giant 7-pin base.

XM-10: Heavy duty metal shell socket for tubes with UX 4-pin base.

HX-100: Low-loss wafer for tubes with giant 5-pin base. Air holes provided in socket to permit forced air cooling.

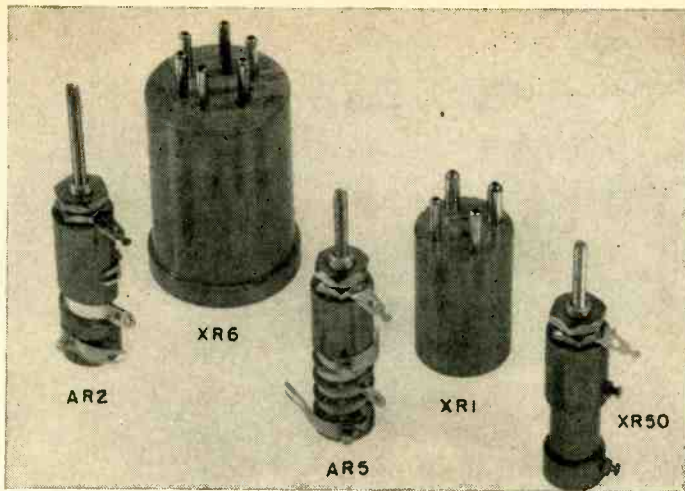
MINIATURE SOCKETS and SHIELDS

7-9 pin miniature tube sockets designed to meet rigid government and commercial requirements. Tube shields for both 7 and 9 pin sockets • Bases for shields available with spade bolts or holes for flush mounting.



XOS—A shield for miniature, both 7 and 9 pin, base tubes. Available in three sizes: 1 1/8", 1 1/2" and 2". XOA: Axial type sockets.

XOR: Radial type sockets. Mount with 4-40 screws on 0.875" centers. Either ceramic or mica-filled bakelite. Provide short leads and low inductance in uhf design. Designed for 7-pin or 9-pin miniature tubes. Silver plated beryllium copper contacts.



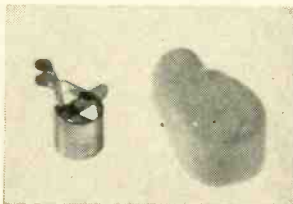
COILS AND COIL FORMS

COILS: AR-2 and AR-5 hf coils are high Q permeability tuned RF coils on low loss mica filled bakelite forms. The AR-2 coil tunes from 75 mc to 220 mc with capacities from 100 to 10 mmfd. The AR-5 coil tunes from 37 mc to 110 mc with capacities from 100 to 10 mmfd. Inductive windings supplied may be replaced by other windings as desired to modify the tuning range. XR-50 are mica filled bakelite coil forms which may be wound as desired to provide a permeability tuned coil. The form winding length is 11/16" and the form winding dia. is 1/2". The iron slug is 3/8" dia. by 1/2" long.

COIL FORMS: Molded of R-39 mica filled bakelite permitting them to be grooved and drilled. Coil form dia. 1", length 1 1/2". XR-4 is four prong. XR-6 is six prong. Coil form dia. 1 1/2", length 2 1/4". A special socket is required for the XR-6 which is National type XC-6C. Other types available are XR-1 with four prongs, XR-2 without prongs and XR-3 which has a dia. of 9/16" and length of 3/4" without prongs.

HEAT RADIATING CAPS

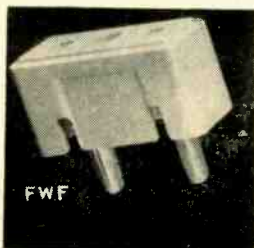
Designed to government specifications. Aluminum contact fingers are integral with radiating fins. Tension on fingers maintained by an encircling steel spring. 6/32" tapped center hole for attaching grid ribbon or other lead. Crimped beryllium copper, silver-plated grid ribbon 3 1/4" long, supplied with each cap. Special lengths can be supplied to manufacturers in quantities.



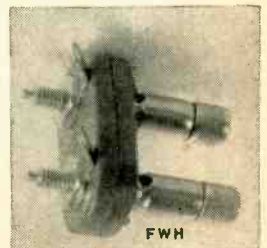
GRID GRIPS AND PLATE CAPS

SPP-3 Ceramic insulation. Fits 3/8" dia. National Safety grid and plate caps have a ceramic body which offers protection against

high voltage caps on tubes. The SPP-9 same as SPP-3 but fits 9/16" dia. Other types are Type 12 for 9/16" caps; Type 24 for 3/8" caps and Type 8 for 1/4" caps. They provide secure and positive contact with tube caps and yet are easily released.



TERMINALS: FWJ; This assembly uses the same insulators as the FWH shown to the right but has jacks. When used with a National FWF plug there is no exposed metal when the plug is in place. The FWH type: The insulators of this terminal assembly are molded R-39 and have serrated bosses that allow the thinnest panel to be gripped firmly, and yet have ample shoulders. Binding posts are sturdy. The FWG is a Victrol terminal strip for high frequency use. Binding posts take banana plugs at top and grip wires through hole at bottom, simultaneously if desired. The FWF is a molded R-39 plug with two banana plugs on 3/4" centers. Leads may be brought out through top or sides.



SHAFTS AND SHAFT COUPLINGS

National Company makes flexible couplings and shafts for practically every requirement. Features of the various types include steatite insulation; angle connections up to 90°; excellent electrical connections between coupled shafts; elimination or adjustments for radial misalignment. Most types fit 1/4" shafts. Other types include TX-19; A steatite-insulated, flexible coupling for 1/4" shafts, conservatively rated at 5000 v. peak. Dia. 1 3/8", length 1". Length and flash over voltage can be increased by turning collars outboard: TX-23; A deluxe, insulated, flexible coupling designed for coupling 1/4" shafts. Will handle a maximum radial misalignment of 1/16", also a two degree angular misalignment: TX-24; Same as TX-23 but shaft size 5/32": TX-25; Same as TX-23 but non-insulated. Complete details available upon request.

BUSHINGS

These include various types of low loss steatite bushings for 3/8" holes, 1/2" holes, 1" holes and 1 1/2" holes, 2 3/4" holes and 3 3/4" holes. They include male and female bushings with metal fittings.

INSULATORS

Feed-Through Insulator

XS-9 Feed-through insulator. Hole size 13/64". Insulators are adjustable for different partition thicknesses on silver-plated terminal stud. Ceramic insulators are of high grade material designed for high frequency equipment. Other types include XS-1 (1" hole), XS-2 (1 1/2" hole), XS-7 (3/8" hole), XS-8 (1/2" hole), as well as standoffs and spreaders of various sizes.



OTHER NATIONAL CO. PRODUCTS

National Company manufactures hundreds of other items in addition to the ones shown on these pages. A complete catalog is available on request. Important items include . . .

Custom IF Transformers

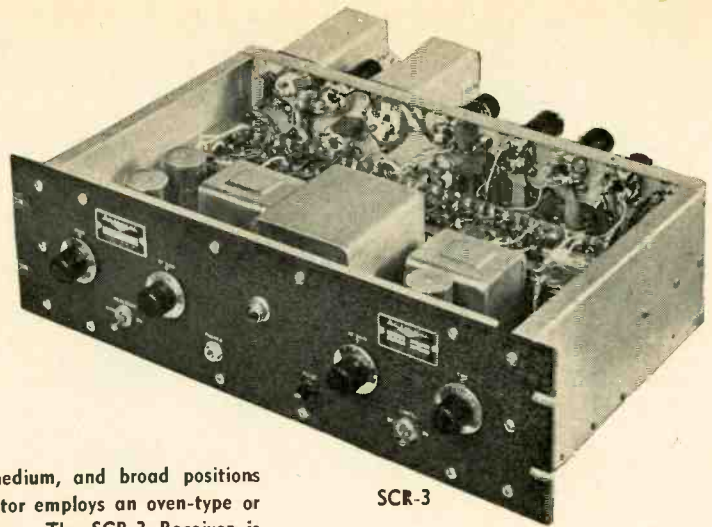
Standard Metal Cabinets & Panels

Coil dope Paint Hardware Television Receivers

Dial and angle drives Communication Receivers

SCR-3 Single Channel Receiver

The SCR-3 is a single-channel superheterodyne receiver with a self-contained power supply which may be operated from either 115 or 230 volts 50/60 cycle AC supplies. It is designed to operate on frequencies from 1.8—25 mcs. Two tuned R. F. stages insure a favorable signal-to-image ratio varying from approximately 55 db at 25 mc. to 90 db at 1800 kc. Pre-tuned R. F. circuits, a crystal-controlled oscillator, carrier operated noise suppression (C.O.N.S.), and automatic volume control allow the operator to devote his full time to message handling. For C. W. reception a special low-drift voltage regulated oscillator assures proper tuning over long periods of time. Designed for standard relay rack mounting, the SCR-3 uses a 19 x 5½" panel and is 16" deep from the rear of the panel. The selectivity of the standard SCR-3 is 4 kc. at 6 db down. If greater bandwidth is desired, we can supply our SCR-3B model which incorporates a variable I. F. having sharp, medium, and broad positions ranging from 4 to 8 kc. at 6 db down. The crystal-controlled oscillator employs an oven-type or standard crystal dependent upon the severity of operating conditions. The SCR-3 Receiver is fungus-proofed to retard the harmful effects of humidity characteristic of tropical climate.



SCR-3

NAC National VHF Receiver

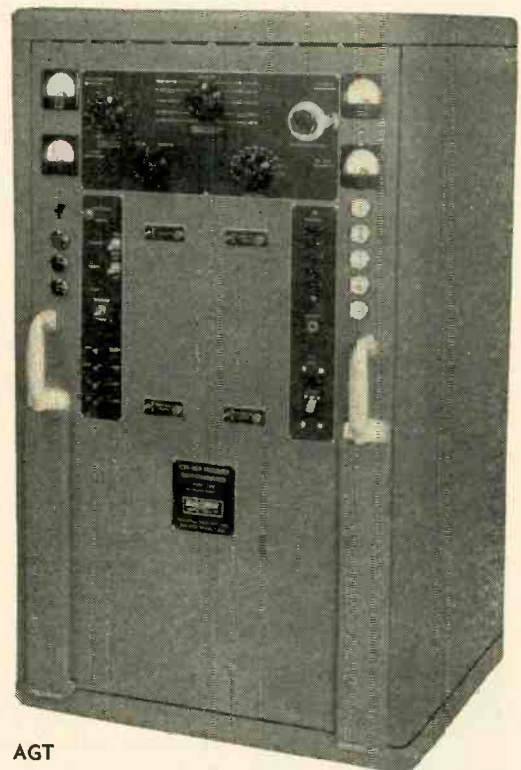
The NAC Receiver has been designed to satisfy the needs of airlines, small private airports, and other interests requiring a compact tunable VHF rack mounted receiver. The NAC is a superheterodyne, superregenerative receiver utilizing a self-contained speaker. The receiver can be used separately or as a converter with any conventional superheterodyne tuning to 10.7 mcs. This, in addition to offering increased sensitivity, makes all features of the associated receiver usable on VHF. The standard model covers frequencies from 112-153 mcs. However, coil ranges covering specific frequencies between 27 and 250 mcs. are available on special order. The NAC operates from a National SPU-5886 power supply which is designed for 115/230 volt, 50/60 cycle supplies. If portable operation is desired, either the National 686S vibrator power unit (6 volt) can be supplied or a standard 6-volt battery and B batteries supplying 135 to 180 volts may be used.



NAC

AGT Very High Frequency Transmitter

The National AGT VHF Transmitter was designed primarily for use at ground stations for ground-air communications. However, it may be used in any installation where VHF phone transmissions are required. It is designed to provide a means for amplitude-modulated phone transmission over a nominal frequency range of 111 to 126.7 mc. The transmitter is capable of delivering an R. F. carrier output of 50 watts, modulated 90%, into a 52-ohm unbalanced resistive load. The unit is crystal controlled with 5 preset channels. A novel device is utilized to assure accurate and rapid selection of any one of the 5 channels. This device is a motor-driven "Automatic Channel Selector" which permits push-button selection of any one of the 5 preset channels. An illuminated numeral indicates the particular channel in use. Provision is made in the transmitter to permit operation from a remote location and remote equipment can be supplied on special order if required. The transmitter operates from 105/125 v., 50/60 cycles single phase A. C. power source.



AGT

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audioidiscs*

For more than a decade, Audioidiscs have consistently set the standards for quality and uniformity in every field of instantaneous disc recording. A superior lacquer, applied by a patented, precision-machine coating process, gives a mirror-smooth cutting surface with positive thread throw, brilliant h-f response, and freedom from background noise. An important improvement, perfected in 1948, makes all Audioidiscs permanently resistant to humidity.

There's an Audioidisc for every recording need — conventional or microgroove.

RED LABEL AUDIODISCS — exceed the most exacting demands for highest quality professional recordings. Aluminum base. *Double sided* — Sizes: 6½", 8", 10", 12" and 16". *Single face* — Sizes: 10", 12" and 16".

YELLOW LABEL AUDIODISCS — the popular choice for all general-purpose recording. Aluminum base. *Double sided*. Sizes: 6½", 8", 10", 12" and 16".

BLUE LABEL AUDIODISCS — ideal for schools, homes, and general amateur use. Same lacquer as professional discs, but thinner aluminum base. *Double sided*. Sizes: 6½", 8" and 10".

MASTER AUDIODISCS — the choice of professional recordists for use where pressings are to be made. Give fine results with either silvering or gold sputtering. Aluminum base. *Double sided or single face*. Sizes: 12", 13¼" and 17¼".

REFERENCE LABEL AUDIODISCS — provide maximum economy for test cuts, reference recordings, auditions, etc. Aluminum base. *Double sided*. Sizes: 10", 12" and 16".



audiopoints*

The newly expanded line of Audiopoints covers the full range of recording and playback needs—for the most exacting professional recordists as well as the non-professional and the general public. Audiopoints are available in Sapphire, Stellite and Steel — precision made by skilled craftsmen, for matchless recordings and reproduction of either conventional or microgroove recordings. Send for folder on Audiopoints.



audiotape*

Audio Devices now offers a *complete line* of highest quality magnetic recording tape — on plastic or paper base, and with red or black oxide coating, for matched performance in any tape recorder.

Audiotape is precision made to the same exacting standards of quality and uniformity that have characterized Audioidiscs for the past decade — your assurance of maximum fidelity, uniformity, frequency response, and freedom from background noise and distortion.

The following types of Audiotape are now available:

Length	Reel	Coating	Wound With	Type No.
PLASTIC BASE AUDIOTAPE (in the Red Box)				
600 ft.	5" Plastic	Black Oxide	Oxide Out Oxide In	640 641
		Red Oxide	Oxide Out Oxide In	650 651
1250 ft.	7" Aluminum	Black Oxide	Oxide Out Oxide In	1240 1241
		Red Oxide	Oxide Out Oxide In	1250 1251
2500 ft.	Std. NAB Al. Hub	Red Oxide	Oxide In	2551H
	Complete 10½" Al. Reel	Red Oxide	Oxide In	2551R

PAPER BASE AUDIOTAPE (in the Blue Box)				
600 ft.	5" Plastic	Black Oxide	Oxide Out Oxide In	600 601
		Red Oxide	Oxide Out Oxide In	620 621
1250 ft.	7" Aluminum	Black Oxide	Oxide Out Oxide In	1200 1201
		Red Oxide	Oxide Out Oxide In	1220 1221

Audio Devices is also prepared to furnish Audiotape in types and sizes designed to meet individual requirements for specialized applications.

The above Audio Devices products are available through more than 300 authorized distributors, located in principal cities from coast to coast.

Audioidiscs are manufactured in the U. S. A. under exclusive license from PYRAL, S.A.R.L., Paris



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*Trade Mark

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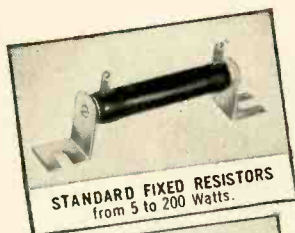
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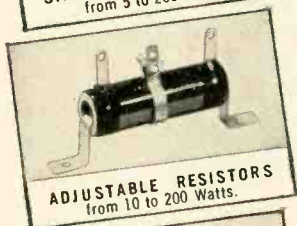
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Precision Built RESISTORS • DEFLECTION YOKES FOCUS COILS

I-T-E DEFLECTION YOKES

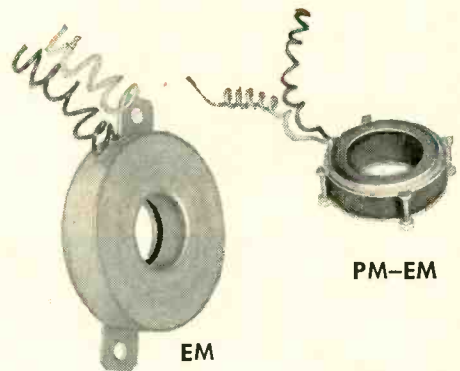
Deflection yokes are built with uniform characteristics; wire size and quality is constantly checked. The coils are impregnated in a special moisture resistant thermo plastic material properly cured to insure a firm coil with the minimum of losses. Deflection yokes may be obtained complete with wire leads, resistors and capacitors to customer's specifications.



I-T-E FOCUS COILS

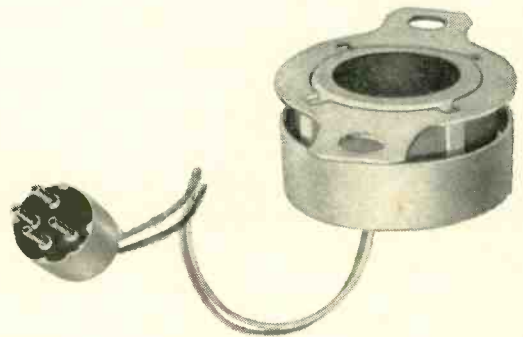
I-T-E Focus Coils are available in three types: The first type utilizes an electro-magnet. The second type combines a permanent magnet with an adjustable electro-magnet. Both are wound of finest enameled uniform-cross-section copper wire. Leads are securely anchored, and the entire wound assembly is enclosed in a pressed-steel case, which is zinc-plated to resist corrosion. PM-EM construction makes possible the use of smaller and less expensive power supply, retains proper focusing longer, and minimizes temperature rise. I-T-E Focus Coils are made for use with tubes 10", 12", and 16" in size. Information required to manufacture: Type of tube; second anode voltage; focusing current. Mountings and leads are made to specifications.

The third type I-T-E focus coil is a PM-EM coil in which an adjustable shunt is used to adjust the amount of permanent magnetization. Combination of the adjustable PM with the electro-magnet gives you a wider range of adjustment, enables serviceman to better adjust focus coil to meet requirements of local conditions. Components are all cadmium plated to prevent corrosion. Offers all the benefits of PM-EM construction. Recommended for 16" and 19" tubes.



EM

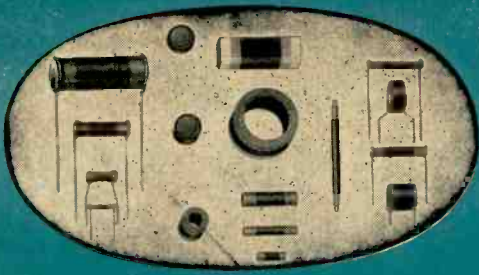
PM-EM



PM-EM Adjustable Shunt Focus Coil

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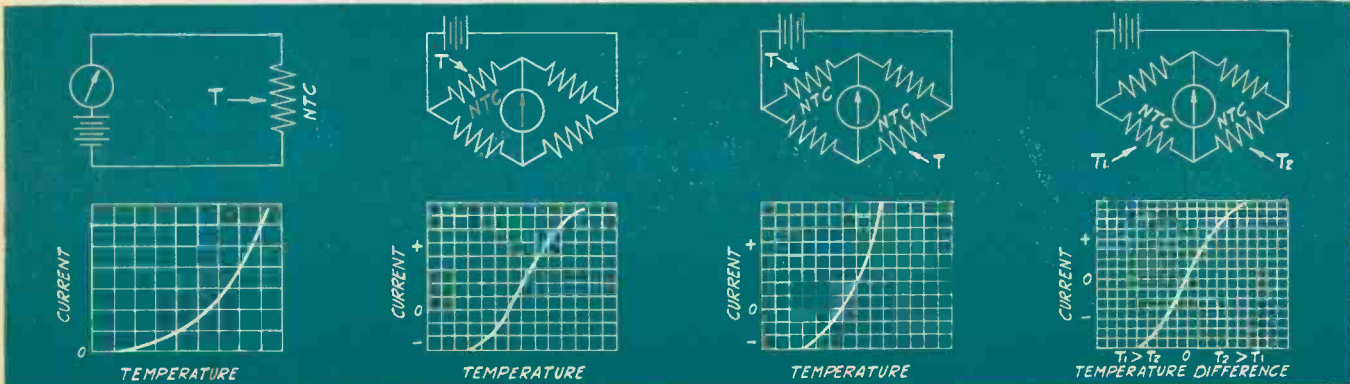
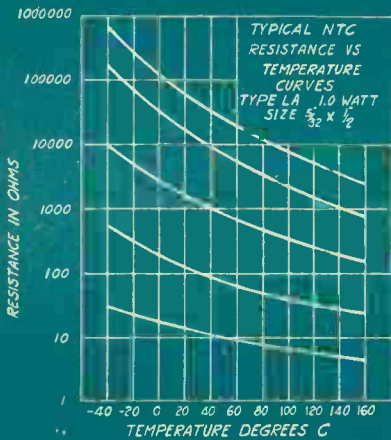


Do you have a

TEMPERATURE MEASUREMENT OR CONTROL PROBLEM ?

CHECK THESE ADVANTAGES OF KEYSTONE NTC UNITS FOR YOUR APPLICATION

Keystone NTC units are electrical resistors especially developed to have an unusually high negative temperature coefficient of resistivity. The slopes are much greater than those observed with pure metals or their alloys. The result is an element with very high thermal sensitivity, useful on AC or DC, inherently suitable for remote indication, which has gained wide acceptance for temperature measurement and control purposes. NTC units are made in wide range of shapes, resistance values, temperature coefficients and wattage ratings, of which the characteristics at the left are typical. The circuits below suggest basic means for translating resistance changes into current or voltage variations. Modifications and extensions of these principles are many, especially in conjunction with electronic apparatus.



This simple series circuit of voltage source, instrument and NTC unit has been utilized to indicate engine coolant temperature, etc. It provides sufficient accuracy for many applications despite scale crowding at the bottom.

Basic bridge circuit straightens and steepens the characteristic. Zero-center meter may be used or balance point may be placed near the lowest temperature. Electronic balance indication provides enhanced sensitivity.

Adding a second NTC unit, and exposing both to the temperature to be indicated, gives a double unbalancing effect and increases sensitivity under certain conditions over part of the temperature range.

Two NTC units in adjacent arms is a method of indicating equality of two temperatures, or temperature difference or rise. Temperature of either source can be obtained by substitution of standard resistance for other NTC unit.

Keystone NTC resistors are also valuable for neutralizing the change in resistance with temperature of electrical indicating instruments and control devices, for introducing time delays and many other applications. Write and tell us about your problem—we'll be glad to analyze it for the applicability of NTC units.



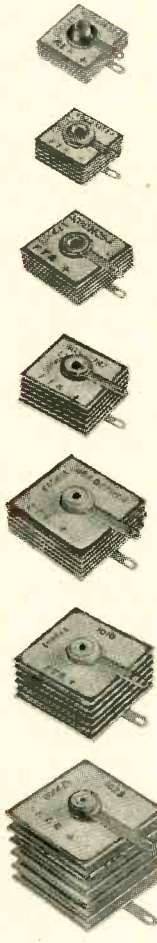
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The revolutionary circuit elements that have led the way to important design advances in Television and Radio Receivers and Electronic Equipment

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1002	402D3452A	65	130	160	380	750	1" Sq.	B+ AC-DC (5 tube) Radio
1003	402D3150A	75	130	220	380	900	1" Sq.	B+ 3-way Radios
1004	403D2625A	100	130	325	380	1200	1 13/64" Sq.	B+ Radios, Television
1005	403D2787A	150	130	425	380	1200	1 13/64" Sq.	B+ Radios, Television
1006	404D2795A	200	130	550	380	2000	1 17/32" Sq.	B+ Television
1010	404D3450A	250	130	625	380	2000	1 17/32" Sq.	B+ Television
1023	1023	350	130	900	380	3000	1 3/4" Sq.	B+ Television
1021	439D+200	450	130	1150	380	4000	2" Sq.	B+ Television
1014	403D2889A	100	160	325	440	1200	1 9/32" Max.	Vibrator
1022	439D4300	450	160	1150	440	4000	2" Sq.	B+ Television
1007	402D3239A	75	160*	220	440	900	1" Sq.	Vibrator Doubler
1008	403D3240A	100	160*	325	440	1200	1 13/64" Sq.	Vibrator Doubler
1009	404D3241A	200	160*	550	440	2000	1 17/32" Sq.	Vibrator Doubler
1015	402D3550	150	25	270	35	1800	1" Sq.	Bridge Rectifier
1016	403D3551	300	25	540	35	2400	1 13/64" Sq.	Bridge Rectifier
1017	404D3552	600	25	1080	35	4000	1 17/32" Sq.	Bridge Rectifier
1013	4D2814AS	700	18†	---	---	---	1 17/32" Sq.	Battery Charger
1018	104D2943S	2000	18‡	---	---	---	4 1/4" lg. (Mtg. Plt.)	Battery Charger
1001	402D3151	75	20	220	55	900	1" Sq. (Mtg. Plt.)	Bias Rectifier
1019	N.T.C. Resistor (Cold, 1400 ohms, Hot, 200 ohms) (For use with the above Selenium Rectifiers in certain circuit applications)							

*These rectifiers have two sections—characteristics given apply to one section only; if both sections are used half-wave, voltage input is 320 volts.

†The characteristics given for this rectifier are based on its use in a half-wave rectifier circuit with a 3-cell battery load.

‡The characteristics given for this rectifier are based on its use in a full-wave rectifier circuit with a 3-cell battery load.

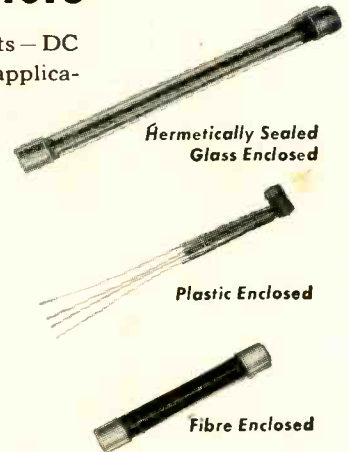


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for Photo-Flash Power Supplies—Cathode Ray Oscilloscopes—Television Circuits—DC Power Supplies—Bias Supplies—High Voltage Testing Equipment—and other applications requiring high voltage at low current.

Federal Code Number	DC Output Voltage	Max. Peak Inverse Voltage	AC Input Voltage	Max. Eff. Inverse Voltage
123D1101	1400	4000	1400	2000
123D1071	1050	3000	1050	1500
123D1126	700	2000	700	1000
123D1182	350	1000	350	500



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Please send free check-sheet for entering our dry battery specifications.

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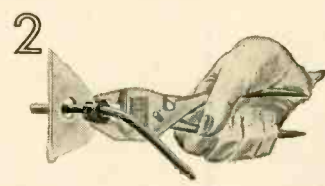
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Here's how to anchor a cordset to an electrical appliance **to Increase Product Life**



Slip a HEYCO Nylon Strain Relief Bushing on wire. (Heycos eliminate cord wear at chassis entrance.)



Snap HEYCO into chassis hole. (The Heyco imparts a positive non-slip grip; does not injure wire.)

HERE'S WHAT A HEYCO WILL DO

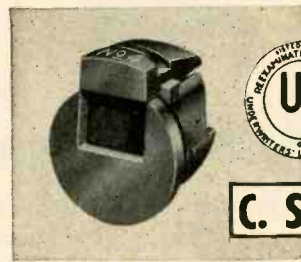
1. Save time—reduce costs
2. Absorb cord pull, push and torque
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HEYCOS ARE USED ON MANY PRODUCTS

You will find HEYCOS being used on an increasing number of nationally known appliances . . . toasters, heaters, clocks, roasters, mixers, record players, radios, television sets, toys, lamps, polishing machines, etc.

HEYCOS ARE MADE IN 11 SIZES

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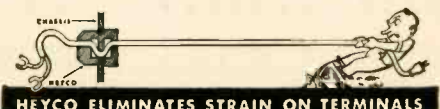
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MAKE SURE YOUR PRODUCT IS DOUBLY PROTECTED BY A HEYCO STRAIN RELIEF



**HEYMAN MANUFACTURING CO.
KENILWORTH 7, N. J.**



HEYCO ELIMINATES STRAIN ON TERMINALS

**Finest Cored Solder
in the World**



ERSIN Multicore

**The only 3 core solder made
with ERSIN FLUX...the original
non-corrosive, extra-active flux**

TECHNICAL ADVANTAGES

Multicore Solder

- Three separate cores of flux eliminate possibility of no flux in a portion of the wire, which may occur in single cored solder. Guaranteed continuity of the flux stream prevents "dry" joints, i.e. those having high electrical resistance.
- Although there are three cores of flux in Multicore, the total percentage of flux to solder is no greater than in single cored solder.
- Very rapid melting results from the multiple core construction which provides thinner walls of solder than are found in same gauge single cored solder.
- Multicore's unique properties make perfect joints possible on difficult metals and alloys, even if oxidized.
- Ability to tin rapidly produces perfect joints with less solder. Greater coverage per pound.

Ersin Flux

- Ersin Flux is an exclusive product of Multicore Solders Limited, and is only supplied as part of Multicore Solder. It is a high grade, water white rosin, homogeneously activated.
- Confers on rosin a vigorous fluxing action without affecting the non-corrosive and protected features of the original rosin.
- Soldered joints made with Ersin Flux do not corrode even after prolonged exposure to a degree of humidity.
- Reduces the surface tension of molten solder, causing it to wet metals rapidly, increasing speed of operation with resultant production economies.
- Free from objectionable odor. Non-toxic in use.
- Leaves nothing but pure rosin on the work after soldering, and may be used wherever plain rosin is specified.

ALLOY AND MELTING POINTS OF ERSIN MULTICORE SOLDER

Alloy Tin/Lead	Multicore Color Code	Solidus °C.	Liquidus °C.	Recommended bit temperature °C.	USES
60/40	Red	183°	190°	230°	High quality work requiring low melting point alloy.
50/50	Yellow	183°	212°	252°	Hand soldering. Radio, telephone and electrical equipment; batteries.
45/55	Crimson/Buf	183°	227°	267°	
40/60	Green	183°	238°	278°	Fuses, motors, dynamos.
30/70	White	183°	257°	297°	
20/80	Purple	183°	276°	316°		Lamps, motors, dynamos.

STANDARD GAUGES

Standard Wire Gauge	Diameter in Inches	Diameter in Millimeters	Approximate Number of Feet per lb.					
			ALLOY					
			60/40	50/50	45/55	40/60	30/70	20/80
10	1.128	3.251	25.2	24.1	23.5	23.0	21.9	20.8
12	0.104	2.642	38.1	36.5	35.2	34.9	33.1	31.5
13	0.092	2.337	48.7	46.6	45.3	44.5	42.3	40.3
14	0.080	2.032	64.4	61.7	59.2	58.6	56.0	53.3
16	0.064	1.626	100.5	96.4	94.3	92.1	87.5	83.3
18	0.048	1.219	178.5	171.0	167.8	163.5	155.5	148.0
19	0.040	1.016	257.5	246.5	240.4	235.5	224.0	213.0
20	0.036	0.914	318.0	304.5	302.5	291.0	276.5	263.0
22	0.028	0.711	526.0	503.0	492.0	481.0	457.0	435.0

ERSIN MULTICORE SOLDER is made in a wide range of gauges, as shown. It can also be supplied in any intermediate size. For general radio and electronic production 13, 14, 16 and 18 S.W.G. are the most widely used gauges.

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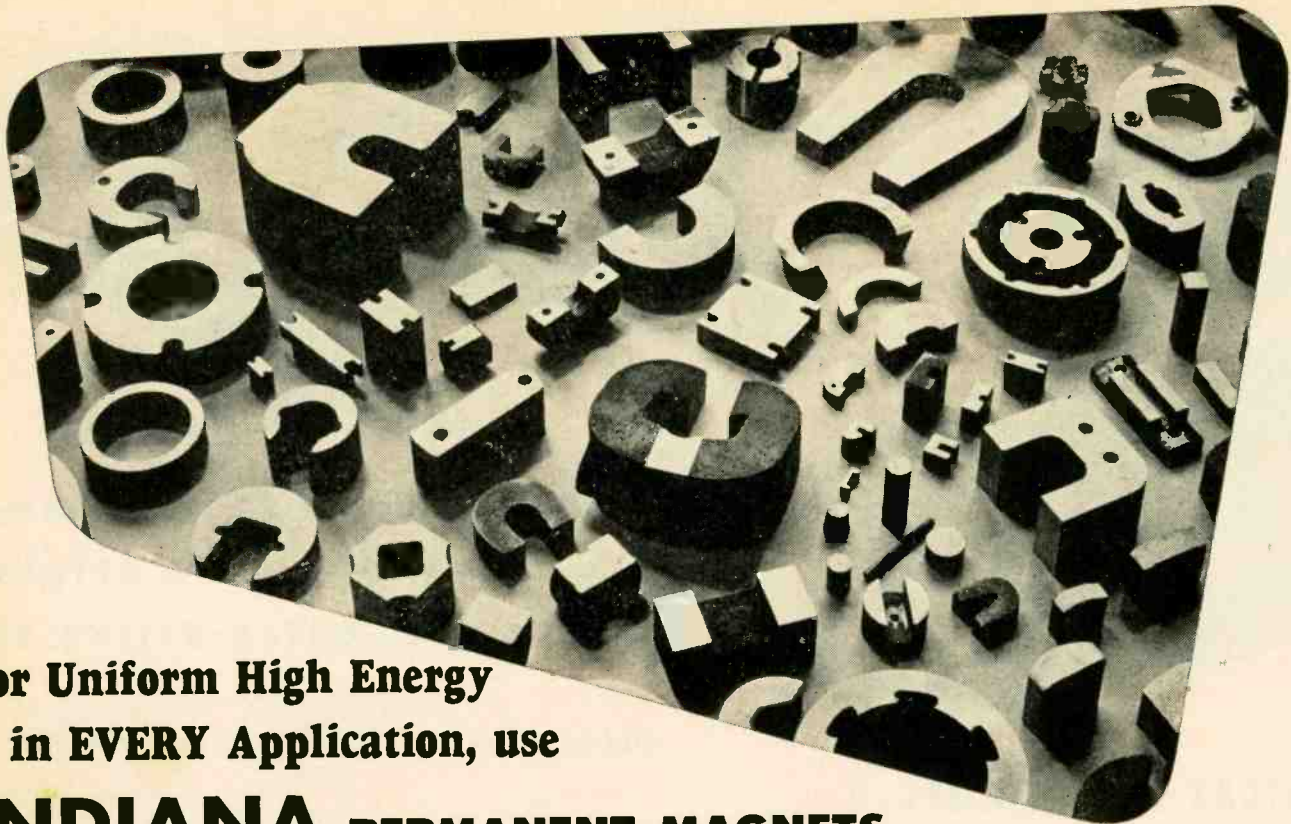
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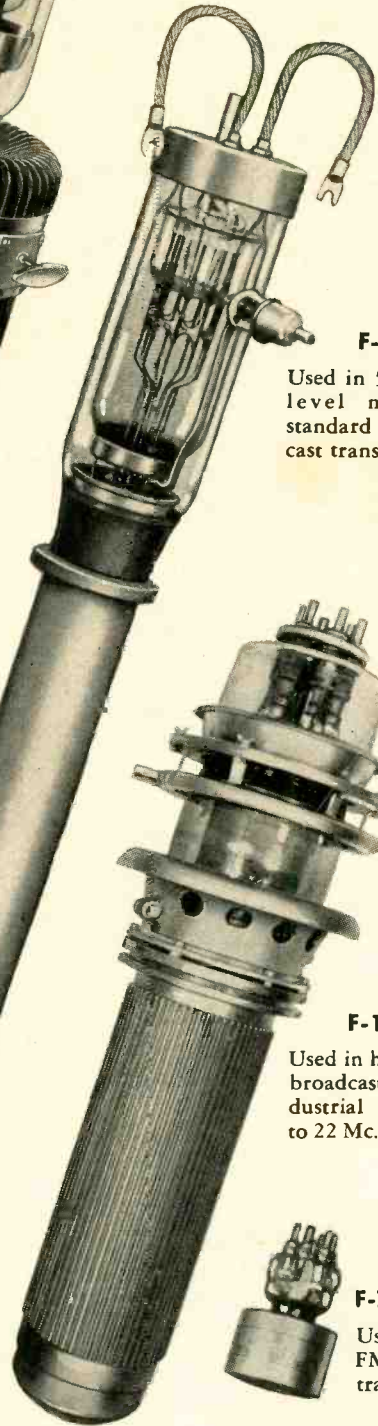
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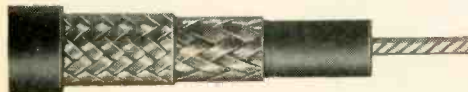
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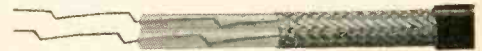
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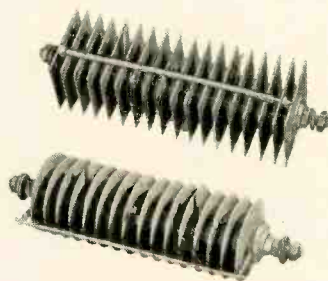
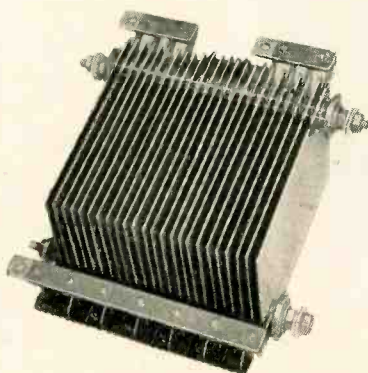


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Type	Description	Freq- uency Range	Power Output	Beam Volt- age	Re- flector Voltage	Fittings
2K41	Reflex Oscillator	2660-3310	250mw*	1250	-750	2-SKL
2K42	Reflex Oscillator	3300-4200	250mw*	1250	-750	1-SKL
2K43	Reflex Oscillator	4200-5700	250mw*	1250	-750	1-SKL
2K44	Reflex Oscillator	5700-7500	250mw*	1250	-750	1-SKL
2K39	Reflex Oscillator	7500-10,300	250mw*	1250	-750	1-SKL
SRX16A	Reflex Oscillator	10,000-14,800	50-20mw	1250	-750	1-SKL
3K27	Reflex Oscillator	750-960	1-3w	1000	-1500	1-SKL
3K23	Reflex Oscillator	950-1150	1-5w	1000	-1500	2-SKL
SRL7C	Reflex Oscillator	1825-2100	5-10w	1000	-1000	Type N
SRC20	WG Reflex	4400-4600	1-5w	1000	-1000	Waveguide (2"x1")
SRC21	WG Reflex	4600-4800	1-5w	1000	-1000	Waveguide (2"x1")
SRC12	WG Reflex	4800-5000	1-5w	1000	-1000	Waveguide (2"x1")
SRC13	WG Reflex	5000-5200	1-5w	1000	-1000	Waveguide (2"x1")
SRC8 Series	26 Reflex Oscillators	5500-7800	0.2-1.5w	1250	-1750	Waveguide (1½"x¾")
3K21	Oscillator Amplifier	2300-2725	15-20w	3000	none	4-SKL
3K30	Oscillator Amplifier	2700-3300	20-30w	3000	none	4-SKL
3K22	Oscillator Amplifier	3300-4000	15-20w	3000	none	4-SKL
2K47	Frequency Multiplier	250-280 in 2250-3360 out	125-250mw	1000	none	4-SKL
2K46	Amplifier-Multiplier	2730-3330 in 8190-10,000 out	10-70mw	1500	none	5-SKL
2K34	Oscillator-Buffer	2730-3330	16w*	3000	none	2-SKL
2K35	Cascade Amplifier	2730-3330	25-35w	3000	none	3-SKL
SMC11 Series	Frequency Multiplier	773.5-831.1 in 4640-5815 out	.8w	1000	none	2-BNC 1-SKL
SMX32	Frequency Multiplier	4500-5200 in 9000-10,500 out	1w	1000	none	BNC

*Minimum rated power output.

Microline test equipment

In this group of test equipment is virtually every type of instrument essential to precision micro-wave measurements, covering every microwave frequency band.

Microline test instruments are also available in waveguide sizes for frequencies from 12,400 to 18,000 mc; 18,000 to 26,500 mc; and 26,500 to 40,000 mc. Every instrument does not cover the entire band width listed here; however as much band width as possible is maintained, limited only by the utility and accuracy required. Development of new instruments is continuous. Your inquiry for special requirements is solicited.

IMPEDANCE METERS

Model	Description	Reading Accuracy	Constancy of Probe Coupling	Detector Element	Fittings	
					Input	Output
299	2600-4000	±0.1mm	±2%	1N21B-821 Barretter	UG-214/U	UG-214/U
103B	4000-6000	±0.1mm	±2%	1N23B-821 Barretter	UG-149A/U	UG-149A/U
116A	3500-7000	±0.1mm	±2%	1N23B-821 Barretter	UG-141/U	UG-140/U
145	8100-12,400	±0.1mm	±2%	1N23B-821 Barretter	UG-39/U	UG-39/U
201	5300-8200	±0.1mm	±2%	1N23B-821 Barretter	UG-344/U	UG-344/U
320	18,000-26,500	±0.01mm	±2%	1N26	UG-425/U	UG-425/U
346	26,500-40,000	±0.01mm	±2%	1N53	UG-381/U	UG-381/U
361A	650-4000	±0.1mm	±2%	1N21B	UG-46/U	UG-45/U

IMPEDANCE TRANSFORMERS

Model	Description	Frequency Range mc	Max. VSWR	Fittings
137	Double Stub	2660-10,300	—	Type N Jack
301	Double Slug	2600-4000	10.	UG-214/U
347	Susceptance 0.360"x0.220" Waveguide	26,500-40,000	1.0-35	UG-381/U
34A	Triple-Stub ¾" Coaxial	1700-3750	50	UG-46/U and UG-45/U
109B	Double-Slug 2"x1" Waveguide	4000-6000	8-14	UG-149A/U
117B	Susceptance 2"x1" Waveguide	4000-6000	1.0-40	UG-149A/U
146	Double-Slug 1"x½" Waveguide	8100-12,400	8-14	UG-39/U
178	Susceptance 1"x½" Waveguide	8100-12,400	1.0-40	UG-39/U
202	Susceptance 1½"x¾" Waveguide	5300-8100	1.0-40	UG-344/U
363	Double-Slug ¾" Coaxial	650-3700	5-6	UG-46/U and UG-45/U

FREQUENCY METERS

Model	Description	Frequency Range mc	Absolute Accuracy	Approximate Loaded Q	Fittings	
					R-F	Video
S22	Detector Wave-meter Kit	2400-3400	1/2000	1000	Type N	UHF
27A	Coaxial	3500-6500	1/1000	400	Type N	UHF
28B	Cavity	4010-6000	1/10,000	7000	UG-149A/U	UHF
124B	Broadband Coaxial	660-3000	1/1000	400-600	Type N	UHF
126	Coaxial	8100-10,200	1/2000	900	UG-39/U	none
207	Coaxial	5300-8100	1/2000	800	Type N	UHF
208A	Cavity	5490-8100	1/10,000	7000	UG-344/U	UHF
273	Cavity	8100-11,900	1/10,000	5000	UG-39/U	UHF
291A	Cavity	2575-3780	1/10,000	10,000	Type N	UHF
348	Cavity	13,800-18,000	1/1000	1000	UG-419/U	UG-419/U
349	Cavity	19,000-26,000	1/1000	450	UG-425/U	UHF
350	Cavity	26,500-39,000	1/1000	1000	UG-381/U	UG-381/U

BARRETT MOUNTS

Model	Description	Barretter Type	Frequency Range mc	Max. VSWR	Fittings	
					Input	Output
83A	2"x1" Waveguide	821	4600-5650	1.5	UG-149A/U	UHF
85	Type N Coaxial	821	2700-2900	1.8	Type N Plug	UHF
148	¾" Coaxial (tunable)	811	500-2500	2.0	UG-46/U	UHF
163	Type N Coaxial	821	2500-2700	1.8	Type N Plug	UHF
164	Type N Coaxial	821	2900-3100	1.8	Type N Plug	UHF
184	1"x½" Waveguide	821	8500-9600	1.5	UG-39/U	UHF
212	1½"x¾" Waveguide	821	6000-7600	1.5	UG-344/U	UHF
245	2"x1" Waveguide	821	3700-4500	1.5	UG-149A/U	UHF
253	1½"x¾" Waveguide	821	5300-6600	1.7	UG-344/U	UHF
285	Type N Coaxial	821	3100-3300	1.8	Type N Plug	UHF
313	1½"x¾" Waveguide	821	6600-8100	1.5	UG-344/U	UHF

DIRECTIONAL COUPLERS

Model	Description	Frequency Range mc	Coupl. Attenuation	Fittings	
				Line In	Line Out
209	1 1/2" x 3/4" Waveguide	5300-8100	24 db	UG-344/U	UG-344/U
233	2" x 1" Waveguide	4000-6000	24 db	UG-149A/U	UG-149A/U
234	1" x 1/2" Waveguide	8100-12,400	40 db	UG-39/U	UG-39/U
235	1" x 1/2" Waveguide	8100-12,400	20 db	UG-39/U	UG-39/U
236	1" x 1/2" Waveguide	8100-12,400	24 db	UG-39/U	UG-39/U
237	1 1/2" x 3/4" Waveguide	5300-8100	30 db	UG-344/U	UG-344/U
321	2" x 1" Waveguide	4000-6000	30 db	UG-149A/U	UG-149A/U
322	2" x 1" Waveguide	4000-6000	40 db	UG-149A/U	UG-149A/U
405	0.360" x 0.220" Waveguide	26,500-39,000	20 db	UG-381/U	UG-381/U
413	1/2" x 1/2" Waveguide	18,000-26,500	20 db	UG-425/U	UG-425/U
415	1/2" x 1/2" Waveguide	18,000-26,500	40 db	UG-425/U	UG-425/U
306	3" x 1/2" Waveguide	2600-4000	30 db	UG-214/U	UG-214/U
388	0.702" x 0.391" Waveguide	12,400-17,000	20 db	UG-419/U	UG-419/U
429	0.360" x 0.220" Waveguide	32,000-39,000	10 db	UG-381/U	UG-381/U
341	1/2" Coaxial	850-2400	33 db	UG-46/U	UG-45/U
711	3/8" Coaxial	950-1150	40 db	UG-46/U	UG-45/U
712	3/8" Coaxial	1080-1300	40 db	UG-46/U	UG-45/U
714	3/8" Coaxial	1260-1540	40 db	UG-46/U	UG-45/U
730	3/8" Coaxial	2470-3130	26.5 db	UG-46/U	UG-20/U (Type N)
775	3/8" Coaxial	660-840	40 db	UG-46/U	UG-45/U
794	3/8" Coaxial	830-1050	40 db	UG-46/U	UG-45/U

Other broad band coaxial directional couplers are available covering a range from 480 mc to 4000 mc.

SHORTS

Model	Description	Frequency Range mc	Fitting
114A	2" x 1" Waveguide	4000-6000	UG-149A/U
203	1 1/2" x 3/4" Waveguide	5300-8200	UG-344/U
371	0.360" x 0.220" Waveguide	26,500-40,000	UG-381/U
372	0.702" x 0.391" Waveguide	12,400-18,000	UG-419/U
377	1" x 1/2" Waveguide	8100-12,400	UG-39/U
636	3/8" Coaxial	700-4000	UG-46/U-Female

TERMINATIONS

Model	Description	Frequency Range mc	Power Capacity	VSWR	Fittings
105	2" x 1" Waveguide	4000-6000	1w	1.04	UG-149A/U
113	2" x 1" Waveguide	4000-6000	310w	1.10	UG-149A/U
150	1" x 1/2" Waveguide	8100-12,400	1w	1.04	UG-39/U
213	1 1/2" x 3/4" Waveguide	5300-8200	150w	1.10	UG-344/U
214	1 1/2" x 3/4" Waveguide	5300-8200	1w	1.04	UG-344/U
239	3" x 1 1/2" Waveguide	2600-4000	1900w	1.15	UG-53/U
240	2" x 1" Waveguide	4000-6000	875w	1.10	UG-149A/U
246	1" x 1/2" Waveguide	8100-12,400	100w	1.15	UG-39/U
308	3" x 1 1/2" Waveguide	2600-4000	17w	1.04	UG-214/U
400	1" x 1 1/2" Waveguide	8100-12,400	17w	1.15	UG-39/U
401	0.702" x 0.391" Waveguide	12,400-18,000	100w	1.15	UG-419/U
402	0.360" x 0.220" Waveguide	26,500-40,000	18w	1.15	UG-389/U
637	3/8" Coaxial	650-3500	12w	1.4	UG-46/U Female

ATTENUATORS

Model	Description	Frequency Range mc	Attenuation Range	Accuracy	Power Capacity	Fittings
110	Variable	4000-6000	0-20 db	Uncalibrated	1w	UG-149A/U & UG-149A/U (2" x 1")
127A	Precision Variable	29-32	15-95 db	±0.2 db	1w	UG-19/U (Type N)
134A	Calibrated Variable	8500-9600	2-45 db	±0.5 db	1w	UG-39/U (1" x 1/2")
152	Variable	8500-9600	2-15 db	Uncalibrated	1w	UG-39/U (1" x 1/2")
173	Calibrated Fixed	8500-9600	3 db	±0.5 db	1w	UG-39/U (1" x 1/2")
174	Calibrated Fixed	8500-9600	6 db	±0.5 db	1w	UG-39/U (1" x 1/2")
183	Calibrated Fixed	8500-9600	10 db	±0.5 db	1w	UG-39/U (1" x 1/2")
215	Calibrated Variable	5300-8100	2-20 db	±0.5 db	1w	UG-344/U (1 1/2" x 3/4")
216	Variable	5300-8100	2-20 db	Uncalibrated	1w	UG-344/U (1 1/2" x 3/4")
289	Variable	4000-6000	2-20 db	Uncalibrated	1w	UG-149A/U (2" x 1")
290	Calibrated Variable	4000-6000	2-20 db	±0.5 db	1w	UG-149A/U (2" x 1")
292	Variable	7000-10,000	2-20 db	Uncalibrated	1w	UG-51/U (1 1/4" x 5/8")
293	Calibrated Variable	7000-10,000	2-20 db	±0.5 db	1w	UG-51/U (1 1/4" x 5/8")
294	Variable	2600-4000	2-16.5 db	Uncalibrated	1w	UG-214/U (3" x 1 1/2")
295	Variable	2600-4000	2-16.5 db	Uncalibrated	1w	UG-214/U (3" x 1 1/2")
374	Variable	26,500-39,000	15 db	Uncalibrated	1/2w	UG-381/U (0.360" x 0.220")

DETECTORS AND MIXERS

Model	Description	Frequency Range mc	Detector Element	Fittings		
				Input	Local osc.	Output
357	Detector 0.702" x 0.391" Waveguide	12,400-18,000	1N26 Crystal	UG-419/U	none	UHF
358	Detector 1/2" x 1/2" Waveguide	18,000-26,500	1N26 Crystal	UG-425/U	none	UHF
359	Detector 0.360" x 0.220" Waveguide	26,500-40,000	1N53 Crystal	UG-381/U	none	UHF
360	Detector 1" x 1/2" Waveguide	7500-9600	1N23B Crystal 821 Barretter	UG-39/U	none	UHF
111A	Detector Sect.	4000-6000	1N23B	UG-149A/U	none	UHF
206	Detector Sect.	5300-8200	1N21B	UG-344/U	none	UHF
364	Detector Sect.	7000-10,000	1N23B	UG-51/U	none	UHF
335	Mixer	5850-8200	1N23B	UG-344/U	Type N	UHF
337	Mixer CV-52/U 3/8" Coaxial	2600-4000	1N23B Crystal	Type N Female	Type N	UHF
378	Mixer	2600-4000	1N23B	UG-214/U	Type N	UHF
379	Mixer	8100-12,400	1N23B	UG-39/U	UG-39/U	UHF
382	Mixer	26,500-40,000	1N53	UG-381/U	UG-381/U	UHF

ADAPTERS

Model	Description	Frequency Range mc	Fittings	
			Input	Output
100A	3/8" Coaxial to 2" x 1" Waveguide	4000-6000	UG-140/U Male	UG-149A/U
101A	3/8" Coaxial to Type N	0-7000	UG-140/U Male	Type N Jack
144A	3" x 1/2" Waveguide to 3/8" Coaxial	2600-4000	UG-214/U	UG-45/U Male
167A	1" x 1/2" Waveguide to Type N	8100-12,400	UG-39/U	Type N Jack Flange
204	1 1/2" x 3/4" Waveguide to Type N	5300-8200	UG-344/U	Type N Jack
217	3/8" Coaxial to Type N	0-4000	UG-46/U Female	Type N Jack
248	2" x 1" Waveguide to Type N	4000-6000	UG-149A/U	Type N Jack
249	1 1/4" x 5/8" Waveguide to Type N	7000-10,000	UG-51/U	Type N Jack
250	3" x 1 1/2" Waveguide to Type N	2600-4000	UG-214/U	Type N Jack
251	Waveguide to Coaxial	5300-7000	UG-344/U	UG-140/U
286A	Coaxial to Type N	0-7000	UG-140/U	UG-290/U (BNC)
352A	3/8" Coaxial to Type N	0-4000	UG-45/U Male	Type N Jack
354A	3/8" Coaxial to 3/8" Coaxial	0-4000	UG-45/U	UG-45/U
355A	3/8" Coaxial to 3/8" Coaxial	0-4000	UG-46/U	UG-46/U
398	Waveguide to Coaxial	2690-4000	UG-214/U	UG-140/U
486A	SKL to Waveguide Transformer Adapter	8100-12,400	UG-39/U	SKL

MAGIC TEES

Model	Frequency Range MC	Max. VSWR (Any Arm)	Min. Isolation (Shunt to Series)	Fittings
323	2600-4000	2	35	UG-53/U
390	18,000-26,500	2	35	UG-425/U
391	26,500-40,000	2	35	UG-381/U
406	8100-12,400	2	35	UG-39/U

TEES AND BENDS

Model	Description	Frequency Range mc	Fittings
106A	2" x 1" Waveguide—Series Tee	4000-6000	UG-149A/U
107A	2" x 1" Waveguide—Shunt Tee	4000-6000	UG-149A/U
165A	1" x 1/2" Waveguide—Series Tee	8100-12,400	UG-39/U
166A	1" x 1/2" Waveguide—Shunt Tee	8100-12,400	UG-39/U
170	1" x 1/2" Waveguide—E-Plane Bend	8100-12,400	UG-39/U
171	1" x 1/2" Waveguide—H-Plane Bend	8100-12,400	UG-39/U
274	3" x 1 1/2" Waveguide—Series Tee	2600-4000	UG-214/U
275	3" x 1 1/2" Waveguide—Shunt Tee	2600-4000	UG-214/U
276	1 1/2" x 3/4" Waveguide—Series Tee	5300-8200	UG-344/U
277	1 1/2" x 3/4" Waveguide—Shunt Tee	5300-8200	UG-344/U
278	1 1/4" x 5/8" Waveguide—Series Tee	7000-10,000	UG-51/U
279	1 1/4" x 5/8" Waveguide—Shunt Tee	7000-10,000	UG-51/U
392	0.702" x 0.391" Waveguide—Series Tee	12,400-18,000	UG-419/U
393	0.702" x 0.391" Waveguide—Shunt Tee	12,400-18,000	UG-419/U
394	1/2" x 3/4" Waveguide—Series Tee	18,000-26,500	UG-425/U
395	1/2" x 3/4" Waveguide—Shunt Tee	18,000-26,500	UG-425/U
396	0.360" x 0.220" Waveguide—Series Tee	26,500-40,000	UG-381/U
397	0.360" x 0.220" Waveguide—Shunt Tee	26,500-40,000	UG-381/U

For detailed information write Industrial Department

SPERRY GYROSCOPE COMPANY

DIVISION OF THE SPERRY CORPORATION • GREAT NECK, NEW YORK

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HERMETIC SEALS IN

Infinite Variety



The Only Seals You Can Hot Tin Dip at 525° F. for Easy Assembly Soldering, for a Strain and Fissure-Free Sealed Part with Resistance of over 10,000 Megohms!

America's leading industries and government agencies have made Hermetic Seal Products Company headquarters for glass-metal headers that are impervious to every element, even under the most adverse conditions.

Hermetic headers withstand high vacuum, high pressure, temperature cycling, oils, compounds, chemicals and corrosion.

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No matter what your requirements are in design or production runs, Hermetic's creative engineering and amazingly flexible processing will save you time, money and effort and will turn out hermetic seals of unrivaled quality for the ultimate in performance.



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HERMETIC SEAL PRODUCTS COMPANY 29-37 So. 6th St., Newark 7, N. J.



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**from one
reliable source**

With the widest line of resistor types in the industry, IRC can supply *all* your requirements from one reliable source. And because we manufacture all types, our recommendations are unbiased. For more than 25 years, IRC has concentrated exclusively on the design and manufacture of resistors. You benefit by this accumulated experience when you specify IRC.

IRC distributors maintain complete stocks of all standard resistors. A telephone call to your nearest IRC distributor will give you fast, local service on your experimental and maintenance orders.

Complete characteristics and specifications of the resistors shown here are detailed in Catalog Data Bulletin BG-1 through BG-18. Write for the Bulletins in which you are interested.

INTERNATIONAL RESISTANCE COMPANY

401 N. Broad Street, Phila., Pa.

IN CANADA: *International Resistance Co., Ltd.,
Toronto, Licensee*



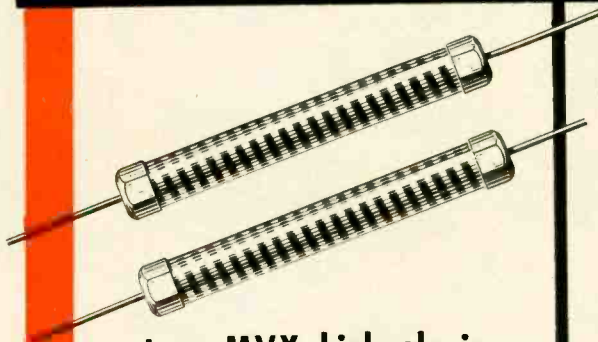
advanced type BT resistors

Meet JAN-R-11 specifications at $\frac{1}{2}$, $\frac{1}{2}$, and 1 and 2 watts. Small Insulated Composition Resistors, up to 22 megohms in RMA Ranges. Catalog BG-1.



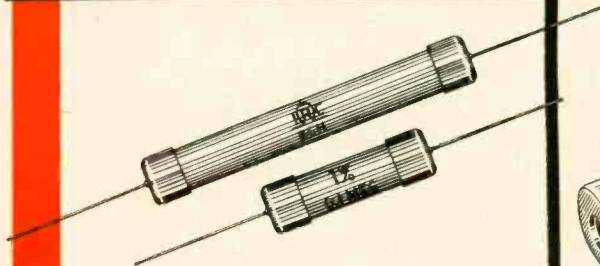
type BW wire wound resistors

Exceptionally stable and inexpensive for low range requirements. Fully insulated $\frac{1}{2}$, 1 and 2 watts in RMA Ranges up to 8200 ohms. Catalog BG-2.



type MVX high ohmic high voltage resistors

Meet requirements for a small high range unit with axial leads. Can be mounted through a hole in a mounting block of insulating material without terminal interference. Power rating is 2 watts. Catalog BG-18.

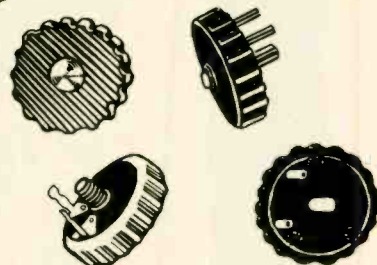
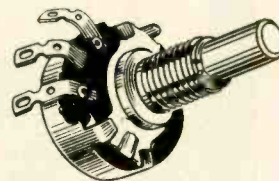


deposited carbon PRECISTORS

Combine accuracy and economy in close tolerance applications. Tiny, light-weight units in wide range of values, and 3 tolerances—1%, 2% and 5%. Catalog BG-14.

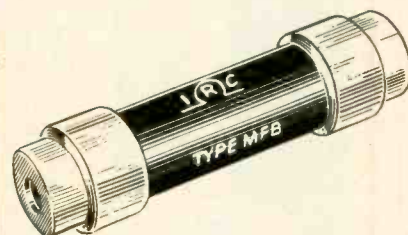
new type Q controls

Compact $\frac{1}{16}$ " design. $\frac{1}{4}$ watt rating. Available with or without tap and switch. Lustrous nickel-plated finish meets federal salt-spray requirements. Catalog BG-3.



finger-tip controls and switches

Nickel-size, wafer-thin controls with famous IRC element. Simplified construction enables this control to fill applications where small size must combine with dependability. Catalog BG-9.



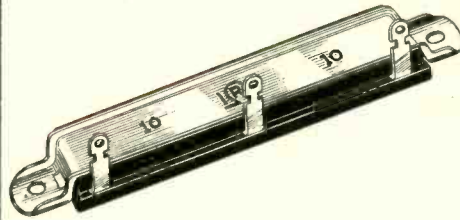
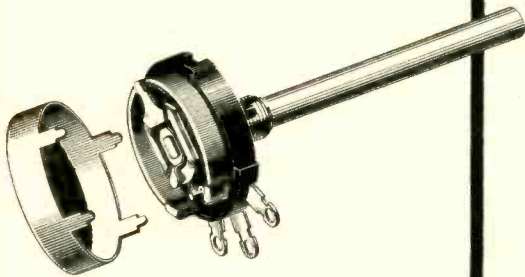
type MF voltmeter multipliers

Interconnected and encased in sealed ceramic tubes. Completely impervious to humidity. 0.5 meg. to 6 meg. Catalog BG-15.

VARIABLE RESISTORS

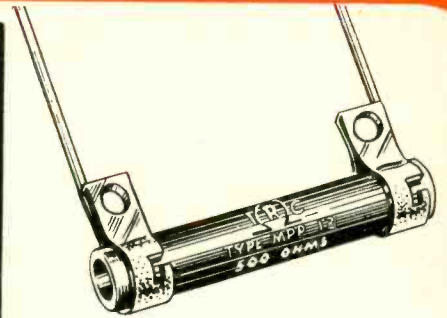
wire wound potentiometers

Two watt control. 1 1/4" diameter. Wide variety of rheostat and potentiometer applications. Catalog BG-4.



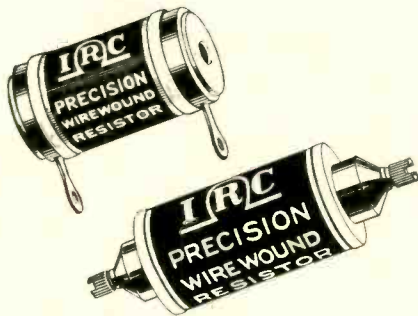
type MW wire wound resistors

Flat wire wound resistors, completely insulated and protected. Unique design permits savings in cost and space. Catalog BG-5.



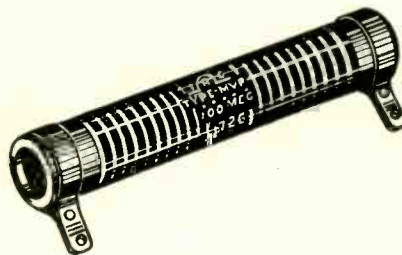
type MP high frequency resistors

For frequencies above those of conventional resistors. 2 watts to 90 watts. (MPM's are tiny, 1/4-watt units ideal for miniaturization.) Catalog BG-6.



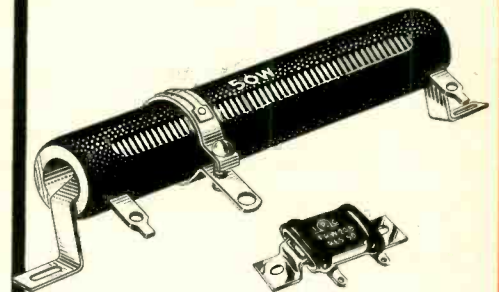
precision wire wound resistors

Maximum accuracy and dependability in instrument applications. 1% tolerance standard. Variety of terminal types. Catalog BG-10.



type MV high voltage resistors

For use where high resistance and power are required. 2 watts to 90 watts. Variety of terminal types. Catalog BG-11.



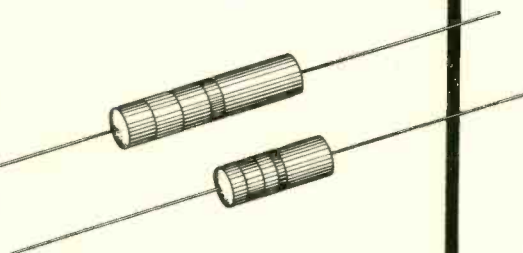
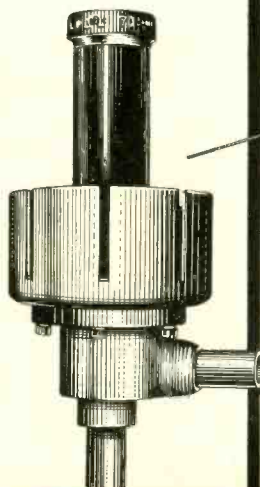
power wire wound resistors

(Tubular or Flat)

Full range of sizes, types, terminals. Special cement coating resists humidity and aids heat dissipation. Catalogs BG-12 and BG-13.

type LP water cooled resistors

High-frequency, high-power resistor, cooled by high velocity stream of water. Power dissipation up to 5 KW. 35 ohms to 1500 ohms. Elements interchangeable. Catalog BG-16.



insulated chokes

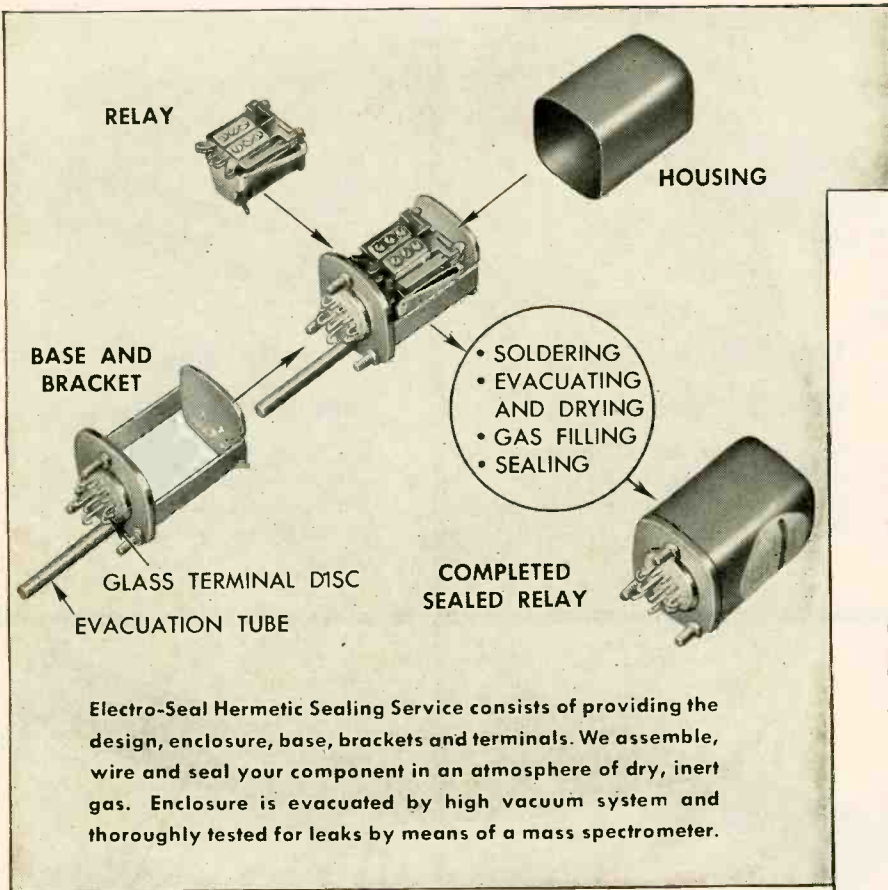
Ideal for television and similar circuits. Wide range of size and characteristic combinations permit accurate specification to individual requirements. Inexpensive and versatile. Catalog BG-17.



Wherever the Circuit Says ~~~

**INTERNATIONAL
RESISTANCE
COMPANY**

Make atmosphere a part of your product



Electro-Seal Hermetic Sealing Increases Usefulness, Life and Freedom from Maintenance of Many Types of Electrical Products

No matter how efficient and dependable your product . . . relay, transformer, flasher, timer, amplifier, vibrator or other electrical device . . . it will only operate most reliably in "ideal" atmosphere.

Electro-Seal Hermetic Sealing Service permanently surrounds your product with atmosphere free of moisture, dust, fungi or pressure changes . . . makes it tamper-proof.

For aircraft use, hermetic sealing guards against failure caused by varying air pressure and condensation. In industry, it provides a safe enclosure in

hazardous locations and complete protection from dirt and dust.

Let us show you how Electro-Seal Hermetic Sealing Service can add to the life and reliability of your product by making atmosphere a "built-in" part of the product.

Enclosures can be made up by temporary tools to provide small quantities for engineering samples or limited production schedules. We invite you to send complete engineering information and samples of parts to be hermetically sealed.

A FEW STANDARD TYPES OF ELECTRO-SEAL ENCLOSURES

All Electro-Seal Enclosures can be equipped with individual terminals, multiple headers or plug-in arrangements as well as mounting flanges or studs. Dimensions given are inside usable dimensions.



SERIES 5-E

(Dia: 1 1/2", Depth: 1 7/8", Overall Outside Ht.: 2 5/16"). Normally equipped with octal plug.

SERIES 6-E

(Width: 1 7/8", Length: 4 3/8", Depth: 2 1/16", Overall Outside Ht.: 3 1/16"). Size frequently permits sealing several components within the enclosure.



SERIES 8-E

(Dia: 2 1/4", Depth: 2 7/8", Overall Outside Ht.: 3 1/2"). Normally equipped with octal plug. Maximum base area required: 2 1/2" x 2 1/2".

SERIES 13-E

(Width: 1 3/4", Length: 1 3/4", Depth: 2 3/16", Overall Outside Ht.: 2 3/8"). Base provided with three mounting studs.



SERIES 14-E

(Width: 1 1/8", Length: 2 5/8", Depth: 2 1/32", Overall Outside Ht.: 2 1/2") Size frequently permits sealing of several items within the enclosure.



ELECTRO-SEAL CORPORATION

946 LEE STREET • DES PLAINES, ILLINOIS



REPRODUCING a nation's entertainment

The greatest tribute ever paid to any product of the radio industry. . . . Reproducing a nation's entertainment. . . . Approved voiced so effectively by leading engineers and critics that Jensen Electro-Dynamic Speakers are now more widely used than ever before. At the Atlantic City R. M. A. Trade Show more radio receivers will be equipped with Jensen Speakers than with any other make. These receivers are destined to be the season's best sellers for they will offer the finest possible tone quality. To the manufacturers of these receivers the cost of the speaker has been secondary. . . . Designers and engineers of talking moving pictures, public address and allied apparatus have also voiced their approval, particularly of the new Jensen Auditorium, with 12-inch cone, and Auditorium, Jr., with 10-inch cone, Speakers. . . . The new model D-1 Jensen Concert Speaker, with 40-inch cone, has been designed particularly for use in radio receivers. . . . All of these new reproducers represent the culmination of twenty years of experience. All are available for either AC or DC operation from any convenient source of power supply.

JENSEN RADIO MANUFACTURING CO., 6601 S. LARAMIE AVE., CHICAGO, ILL.

Write immediately for new Jensen Folder No. 27 which gives complete information, descriptive curves and other technical data on all three of these new Jensen Electro-Dynamic Speakers.



New Model D-1
JENSEN CONCERT SPEAKER
Cone 40" Dia. 12" High

New Model 12A
JENSEN AUDITORIUM SPEAKER
Cone 12" Dia. 4" High

New Model 10A
JENSEN AUDITORIUM, JR. SPEAKER
Cone 10" Dia. 4" High

three new **Jensen**
ELECTRO-DYNAMIC SPEAKERS

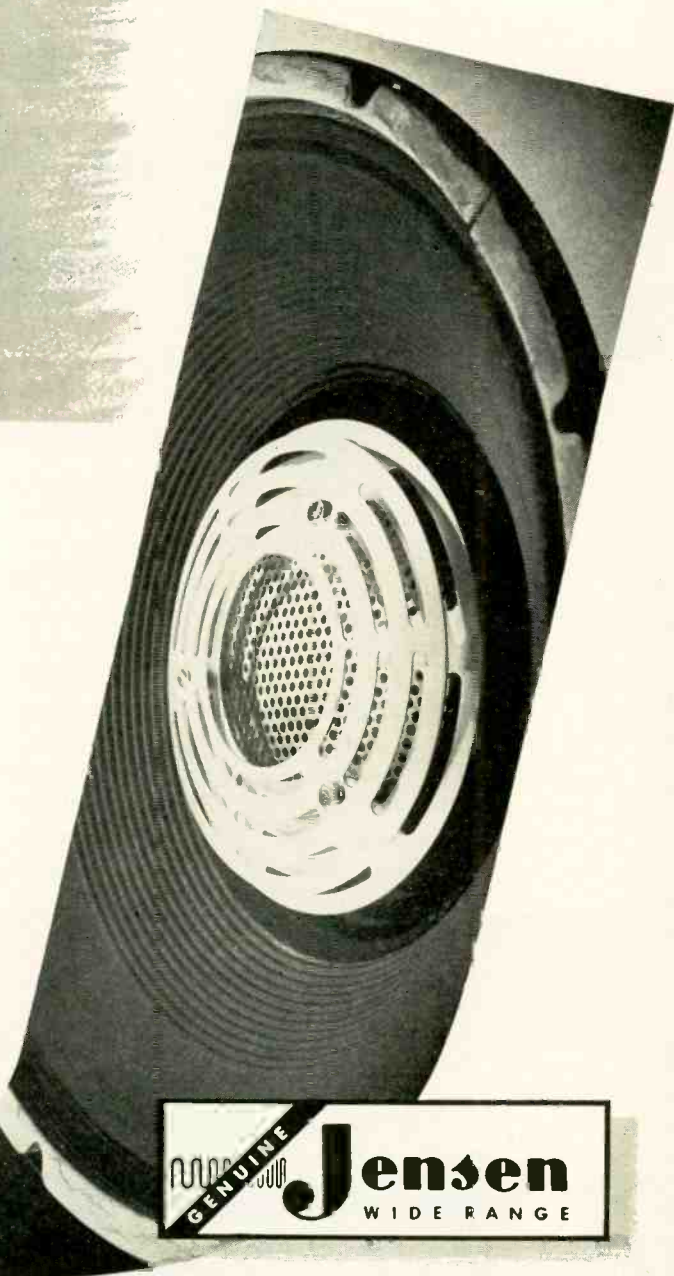
10

June, 1930 — ELECTRONICS

Now, as in 1930 Jensen SPEAKERS LEAD THE FIELD!

• 20 years ago, this ad appeared in the first issue of ELECTRONICS. That was June 1930. Jensen was already established and recognized as the leading producer of fine loud speakers.

Continuing its leadership throughout the years, Jensen is today supplying industry, government, the arts and sciences and the home with the *finest loudspeakers that money can buy*. Jensen offers all types, in any quantity, to meet exact needs. May we have the privilege of working on your loudspeaker problem?



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MITCHELL-RAND

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electrical
insulation
headquarters
for **61** years

FREE FOR THE ASKING!

Write today for your Free Varnished Tubing samples ranging from size 0 to 20 to fit wires from .032 to .325 inches . . . other valuable aids, are the M-R Guide Book of Electrical Insulation . . . the Wall Chart with reference tables, electrical symbols, allowable capacities of conductors, dielectric averages, thicknesses of insulation and tap drill sizes . . . and the M-R Wax and Compound Guide Book . . . they are full of valuable information . . . write for them on your letterhead.



THE M-R WALL SHEET

ELECTRICAL SYMBOLS FOR ARCHITECTURAL PLANS

COMMON INSULATING MATERIALS

Material	Dielectric Constant	Dielectric Strength (KV)
Asbestos Sheet	3.5	100
Asbestos Paper	3.5	100
Asbestos Cloth	3.5	100
Asbestos Board	3.5	100
Asbestos Gaskets	3.5	100
Asbestos Packing	3.5	100
Asbestos Rope	3.5	100
Asbestos Tape	3.5	100
Asbestos Cloth	3.5	100
Asbestos Board	3.5	100
Asbestos Gaskets	3.5	100
Asbestos Packing	3.5	100
Asbestos Rope	3.5	100
Asbestos Tape	3.5	100

STANDARD SIZES OF M-R HARD MAPLE ARMATURE WEDGES

Wedge No.	Wedge Size	Wedge Size	Wedge Size
1	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
2	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
3	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
4	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
5	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
6	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
7	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
8	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
9	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
10	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
11	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
12	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
13	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
14	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
15	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
16	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
17	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
18	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
19	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"
20	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"	1/2" x 1/2" x 1/2"

TABLE OF ALLOWABLE CARRYING CAPACITIES OF CONDUCTORS

Conductor Size	Allowable Capacity (Amps)
1/2"	10
3/4"	15
1"	20
1 1/4"	30
1 1/2"	40
2"	60
2 1/2"	90
3"	120
3 1/2"	180
4"	240
4 1/2"	360
5"	480
5 1/2"	720
6"	960
6 1/2"	1440
7"	1920
7 1/2"	2880
8"	3840
8 1/2"	5760
9"	7680
9 1/2"	11520
10"	15360
10 1/2"	23040
11"	30720
11 1/2"	46080
12"	61440
12 1/2"	92160
13"	122880
13 1/2"	184320
14"	245760
14 1/2"	368640
15"	491520
15 1/2"	737280
16"	983040
16 1/2"	1474560
17"	1966080
17 1/2"	2949120
18"	3932160
18 1/2"	5907840
19"	7883520
19 1/2"	11825280
20"	15767040

LAB OF COSMES
OF THE M-R CO. INC.

OHM'S LAW $I = \frac{E}{R}$ $E = IR$ $R = \frac{E}{I}$

COMPOUNDS

MITCHELL-RAND INSULATION CO. INC.

M-R THE ELECTRICAL INSULATION HEADQUARTERS FOR 61 YEARS.



MITCHELL-RAND INSULATION CO. Inc.

51 MURRAY STREET · Corridors 7-9264 · NEW YORK 7, N. Y.

A PARTIAL LIST OF M-R PRODUCTS: FIBERGLAS VARNISHED TUBING, TAPE AND CLOTH · INSULATING PAPERS AND TWINES · CABLE FILLING AND POTHEAD COMPOUNDS · FRICTION TAPE AND SPLICE · TRANSFORMER COMPOUNDS · FIBERGLAS SATURATED SLEEVING · ASBESTOS SLEEVING AND TAPE · VARNISHED CAMBRIC CLOTH AND TAPE · MICA PLATE, TAPE, PAPER, CLOTH, TUBING · FIBERGLAS BRAIDED SLEEVING · COTTON TAPES, WEBBINGS AND SLEEVINGS · IMPREGNATED VARNISH TUBING · INSULATED VARNISHES OF ALL TYPES · EXTRUDED PLASTIC TUBING

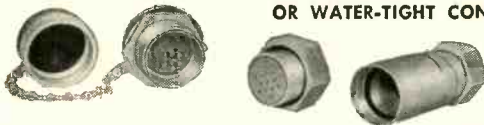
**If You Have a Tough
Connector Problem, Ask
BREEZE
FOR THE ANSWER!**

SPECIAL CONNECTORS

**for advanced radar
and electronic equipment**

Where electrical connector requirements are strict, or the job specialized, take advantage of Breeze experience. Breeze has engineered such advantages as removable contacts for panel-type connectors. This exclusive feature greatly simplifies wiring and maintenance, and is typical of advanced Breeze design.

PRESSURE-SEALED OR WATER-TIGHT CONNECTORS



Engineered to specification in aluminum, brass, or steel. All sizes, capacities. High voltage pulse type connectors. Also rotary shaft seals and allied equipment. Write for details.

REMOVABLE CONTACTS

Save Time, Trouble, Confusion

Simple tool (right) removes contacts for bench soldering. Production time reduced, close work eliminated, errors avoided. Contacts simply snap back into block.



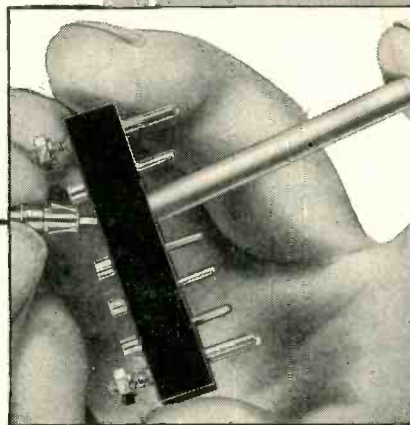
Contact retained securely in block by two spring locks.



Tubular tool inserted from contact side to close springs.

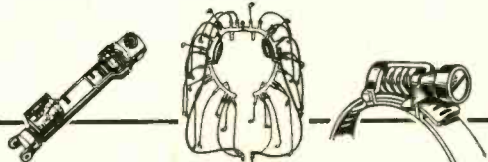


Contact easily removed, but cannot come loose in service.



BREEZE "Monobloc Miniatures" (above) come in 5, 10, 15, and 20 contact sizes or multiples thereof. Capacity—10 amperes with 7 millivolt drop; 500 volts DC or 275 volts AC.

Other Breeze Precision Products



ACTUATORS: All types, sizes. Complete control systems engineered to requirements. Above: Landing gear actuator, Fairchild Packet.

RADIO SHIELDING: For any type of high or low tension system. New type "unit leads" or re-wirable leads. Flexible shielded conduit.

"AERO-SEAL" Worm-Drive Hose Clamps. Vibration proof, uniform clamping, use again and again. Cadmium plated or stainless steel.

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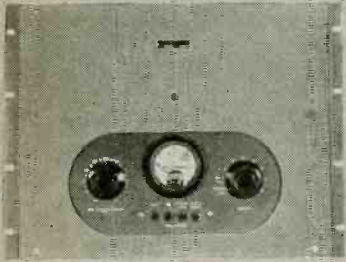
41-E South Sixth Street Newark 7, New Jersey

the finest instruments

.that's why the nation's best engineers.

PRESTO Recording Amplifier 92-B

One of the most popular rack mounting recording amplifiers available. Push-button switch for selecting recording characteristics. Front panel is removable giving complete access to circuits, resistors, capacitors. Frequency response: 20 to 17,000 cps. Ample undistorted power, 60 watts. Gain: 83 db.



PRESTO Transcription Turntable 64-A

Preferred by broadcasters because it operates for long periods of time with no maintenance or adjustments. Direct gear drive from dual motors at 78 and 33 $\frac{1}{3}$ rpm. Full speed is reached within $\frac{1}{8}$ revolution, making it ideal for quick cueing. Low mechanical disturbance, maximum speed accuracy.



PRESTO Portable Disc Recorder 6-N

One of the most widely used recorders of its type in the world. Often used with the 90-B for portable work, yet its high-quality construction makes it an excellent studio recorder. Equipped with Presto 1-D recording head, it is available with or without carrying case. Frequency response of cutting head: 50 to 10,000 cps. Cutting speeds 78 and 33 $\frac{1}{3}$ rpm. Microgroove available at additional cost.



PRESTO Console Disc Recorder 66-G

This high-quality disc machine features the famous Presto dual motor gear drive, allowing perfect program timing and synchronization with film equipment. Equipped with a 1-D cutting head, the frequency range of the 66-G is 50 to 10,000 cps. Two speeds, 78 and 33 $\frac{1}{3}$ rpm. with microgroove pitch available at slight additional cost. Recommended for use with 92-B rack mounted amplifier. Low in cost, this Presto model is ideal for small stations or recording studios.



PRESTO Portable Recording Amplifier 90-B

The perfect recording amplifier for remote assignments with the advantages of high fidelity studio performance. The 90-B has three pre-amplifiers, mixer, master gain control and recording amplifier. Five position selector switch for various characteristics. Frequency response: 30 to 15,000 cps. Noise: 55 db below recording level. Illuminated VU meter.



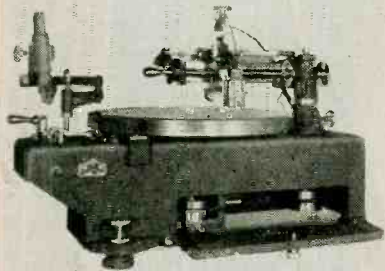
IN THE PRESTO DISC PLANT Flawless, highly polished aluminum blanks start on their 1 $\frac{1}{2}$ hour trip through the 550 foot processing tunnel, where they are automatically coated with the finest recording lacquer. After additional weeks of "curing" in the air-conditioned, dust-free Presto plant, these discs are sealed and shipped throughout the world... wherever quality recording is done.



THE PRESTO RECORDER is one of the most widely read publications in the recording field. Every month this little newspaper covers subjects of interest to broadcasters, educators, recording companies... anyone engaged in the business of recording. Your name will be placed on the free distribution list by writing to: Editor, Presto Recorder, Box 500 Hackensack, New Jersey.

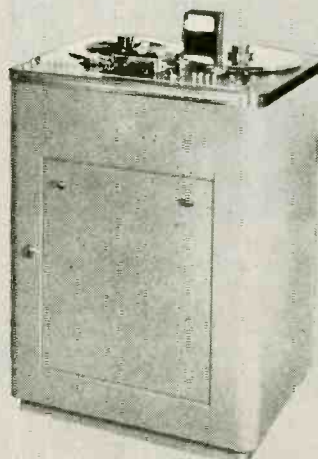
give lasting satisfaction

consistently choose PRESTO equipment



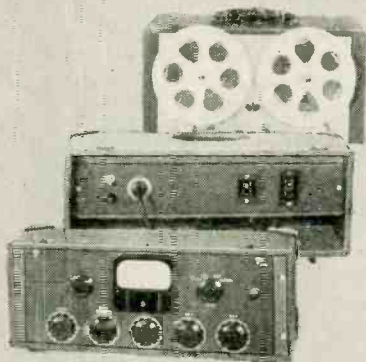
PRESTO Precision Disc Recorder 8 D-G

Custom-built to the highest disc recorder specifications. Designed for unusual flexibility and easy manipulation. Dual motor, direct gear drive at 78 and 33½ rpm. 1-D cutting head has response of 50 to 10,000 cps. Cantilever type overhead does not contact disc or turntable. Heavy, vibrationless base is adjustable for absolute level.



PRESTO Studio Tape Recorder SR-950

Regardless of price, there is no finer tape machine available than the SR-950. A precision recorder in every sense of the word . . . three motors . . . separate heads for recording, playback and erasing . . . operation by push button control. Frequency response: 30 to 15,000 cps. Records 1 hour at 15"/sec; two hours at 7½"/sec. All parts instantly accessible by unique cabinet design.



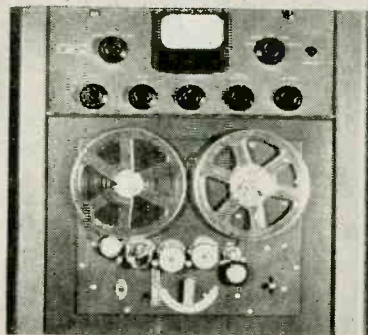
PRESTO Portable Tape Recorder PT-900

Engineers everywhere have approved this compact little machine. Easily portable in two durable cases, the PT-900 sets up into a complete broadcast-quality machine. Three heads . . . erase, record, playback. Separate recording and monitoring amplifiers. Three microphone input. Available in either 15" and 7½"/sec or 7½" and 3¾"/sec. By far the most features and best construction in its class.



PRESTO Tape Playback PB-10

Another new Presto tape machine, designed for rack mounting, employing many valuable features of the SR-950 recorder. Mechanism is identical to the RC-10, except this machine has a reproducing head only. Will playback reels up to 10½" diameter without typing up your tape recorder. Moderately priced, the PB-10 can be used with any amplifier having sufficient gain, with addition of bass boost.



PRESTO Tape Recorder RC-10

A brand new Presto tape recorder for relay rack mounting. Will use reels up to 10½" diameter. Separate heads for recording, playback and erasing. Three-motor drive mechanism with speeds of 15" & 7½"/sec or 7½" & 3¾"/sec. Frequency response to 15,000 cps. Amplifier recommended: 900-A1 (basic amplifier used in the PT-900 tape recorder).

WORLD'S LARGEST MANUFACTURER OF PRECISION RECORDING EQUIPMENT AND DISCS



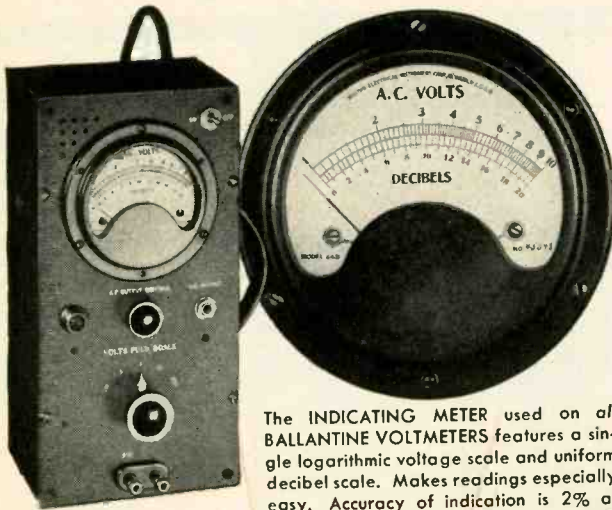
PRESTO

RECORDING CORPORATION
Paramus, New Jersey

IN CANADA: Walter P. Downs, Ltd., Dominion Square Bldg., Montreal

OVERSEAS: M. Simons Company, Inc., 25 Warren Street, New York City, N. Y.

BALLANTINE ELECTRONIC VOLTMETERS



The INDICATING METER used on all BALLANTINE VOLTMETERS features a single logarithmic voltage scale and uniform decibel scale. Makes readings especially easy. Accuracy of indication is 2% at any point on the scale.

MODEL 300 ELECTRONIC VOLTMETER

For the precise measurement of AC voltages from 1 millivolt to 100 volts over a frequency range of 10 cycles to 150,000 cycles. Accuracy of voltage readings is within 2%. Output jack and output control provided so that instrument can be used as highly stable amplifier, with 70 DB gain, flat within 2% over entire frequency range. Input impedance is $\frac{1}{2}$ megohm. Special circuits insure permanent and highly accurate calibration, not affected by variation in line voltage or tube replacement. A high quality instrument for laboratory use—note the several accessories listed below which further increase utility of voltmeter.



MODEL 305 PEAK TO PEAK ELECTRONIC VOLTMETER

The outstanding characteristic of this instrument is its ability to provide absolute indication of transient or pulse voltages of short duration. Reliable indication of pulses a few microseconds wide repeated only 10 times per second is readily obtained with this instrument. The Voltmeter is pre-calibrated, compact, easy to operate and observe. Positive and negative peaks are registered over the range of .001 volt to 1,000 volts, peak to peak. Decade ranges and a logarithmic scale output meter are characteristic features, along with a separately available high gain, wide-band amplifier.



MODEL 402A (x10) and MODEL 402B (x100) MULTIPLIERS

Accessories for use with Models 300 and 302 Voltmeters. Model 402A extends upper range of voltmeters from 100 to 1,000 volts. Also increases input impedance of voltmeters to 4 megohms.

Model 402B extends upper range of voltmeters from 100 to 10,000 volts. Also increases input impedance of voltmeters to 40 megohms.



MODEL 304 R.F. VOLTMETER

This instrument measures AC voltages over a range of 1 millivolt to 100 volts from 30 cycles to 5.5 megacycles. Probe type input connector attached by a flexible cable provides true indication of voltages at point of origin in circuits. Accuracy of voltmeter readings are within 5%. Input impedance is 1 megohm shunted by 9 mmfds. Can be used as wide-band amplifier. Especially useful for reading millivolts in television and FM intermediate frequency amplifier circuits, RF heating apparatus, carrier current systems and in particular for extending useful frequency range of ordinary oscilloscopes to beyond 5 megacycles.



MODEL 302-B PORTABLE ELECTRONIC VOLTMETER

This Electronic Voltmeter is portable and operates from lightweight batteries contained within carrying case. Reads AC voltages from 100 microvolts to 100 volts over frequency range of 2 cycles to 150,000 cycles. Accuracy 2% at any point on scale. Can be used as highly stable amplifier. Input impedance 2.2 megohms. Especially useful for making measurements on ungrounded or symmetrical circuits. Uses standard Eveready or Burgess batteries. Battery life over 150 hours.



MODEL 310 SENSITIVE ELECTRONIC VOLTMETER

This Electronic Voltmeter measures AC voltages from 100 microvolts to 100 volts in six decade steps over a frequency range of 10 cycles to 2 megacycles. The accuracy of voltage readings is within 3% from 10 cycles to 500,000 cycles and within 5% from 10 cycles to 2 megacycles. The input impedance is 2.2 megohms shunted by 15 mmfd on the .001 and .01 volt ranges and 2.2 megohms shunted by 8 mmfd on the other decade ranges. The voltmeter can be used as a highly stable amplifier, with 66 DB gain.

TECHNICAL BULLETIN IS AVAILABLE COMPLETELY DESCRIBING ABOVE INSTRUMENTS

BALLANTINE LABORATORIES, INC.
BOONTON, NEW JERSEY, U. S. A.

Specify "MAKEPEACE"

With nearly sixty years experience in the production of both laminated and solid precious metals, MAKEPEACE is today an accepted "headquarters" for the many special precious metal products and assemblies called for in the electronic field.

FOR RINGS AND WAVE GUIDE TUBING in laminated precious metals

Silver or gold, or platinum, or palladium, or their alloys, are bonded to the required base metal, such as copper or bronze alloys, to produce the required operating characteristics at real savings in cost over solid precious metals.

Today, rings are used in special electric motors, calculators and computers, radar, fire control instruments, potentiometers and many other electro-mechanical devices.

Laminated tubing is increasingly called for in the new higher frequency R. F. plumbing . . . for wave guides . . . and for coaxial line segments.

MAKEPEACE maintains a fully equipped research and testing laboratory . . . as well as a staff of thoroughly experienced metallurgists, chemists and consultants . . . all at your service.

Your inquiries are cordially invited and will receive our prompt and interested attention.

D. E. MAKEPEACE COMPANY

Laminated and Solid Precious Metals for Industrial Use • Fabricated Parts and Assemblies • Bar Contact Material • Precious Metal Solders

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ALLIED'S RELAY GUIDE

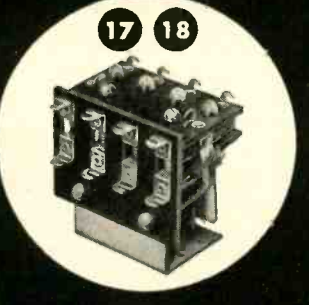
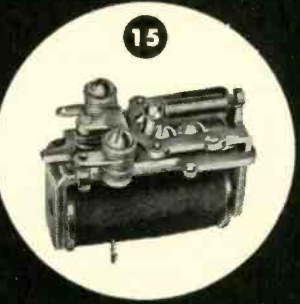
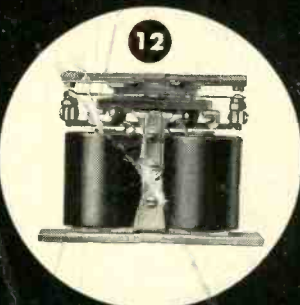
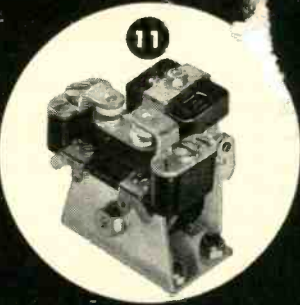
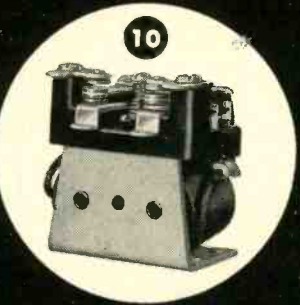
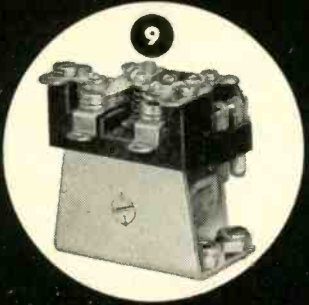
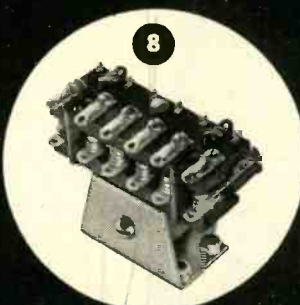
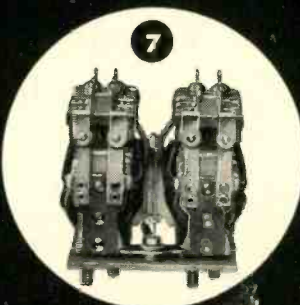
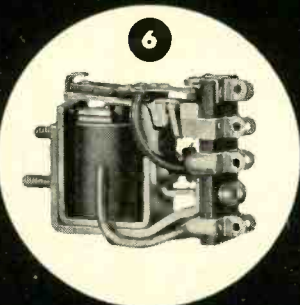
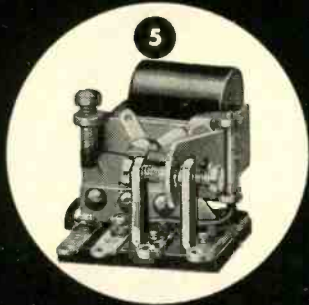
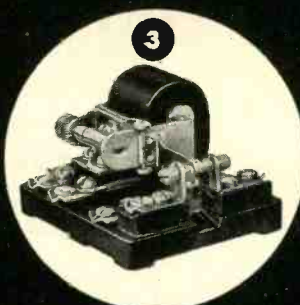
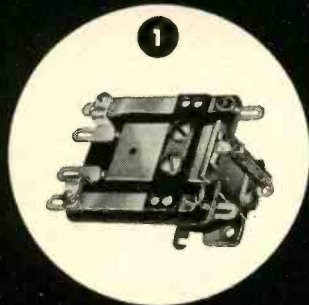
ALLIED TYPE	MAXIMUM CONTACT ARRANGEMENT	COIL OPERATION CONTACT RATING AT 24-V. DC AND 110-V. AC.	COIL DATA IN VOLT-AMPERES OR WATTS AC. DC.						DIMENSIONS			ADDITIONAL FEATURES AS NOTED AT LEFT	
			COIL OPERATION CONTACT RATING CURRENT		MAX. D.C. OHMS OF STANDARD COILS		MAX. RATED VOLTS OF STANDARD COILS		HEIGHT	WIDTH	LENGTH		
			MINIMUM	RATED	MINIMUM	RATED	MINIMUM	RATED					
1	AH	D.P.D.T.	5	AC 5.2	6.5	10.5	1380	230	1-3/8	1-19/32	2-3/8	3-1/2	
			DC 0.15	1.0	5.0	8000	90						
2	AS	S.P.D.T.	5	AC 2.5	3.5	5.0	3500	230	1-3/16	15/16	1-5/8	2	3
			DC 0.5	1.0	4.6	3485	60						
3	B	S.P.D.T.	4	AC 0.09	0.12	9.5	12000	110	1-3/4	2-3/8	2-3/4	7	2
			DC 0.009	0.012	4.9	12000	12						
4	BK	D.P.D.T.	1	AC .190	.24	9.5	12000	150	1-21/32	2-5/8	2-5/8	7	2
			DC .019	.024	4.9	12000	18						
5	BG	S.P.D.T.	2	DC .011	.05	4.8	5000	16	1-1/4	1-3/4	1-3/8	2-3/4	3
6	BJ	D.P.D.T.	5	AC 2.8	3.5	7.3	3370	220	1-9/16	25/32	2-5/16	2-1/4	1, 2, 3, 7
			DC 1.0	2.0	5.5	3370	82						
7	BJU	ELECT. LATCH 4.P.D.T.	5	AC 3.6	9.0		3370	220	1-15/16	1-7/8	1-9/16	6-1/2	6
			DC 2.8	3.5		3370	110						
8	BN	6.P.D.T.	10	DC 1.5	3.5	8.0	4460	125	2-9/16	3	1-23/32	11	2, 7
9	BO	D.P.D.T.	15	AC 3.6	4.5	10.0	2675	250	1-7/8	1-13/32	1-5/8	4	2, 3, 7
			DC 1.5	2.5	5.7	5000	112						
10	BOY	D.P.D.T.	15	DC .50	.75	7.2	10000	87	1-7/8	1-13/32	1-5/8	5	2, 3, 7
11	CN	S.P.S.T. N.O. OR N.C.	50	AC 7.2	9.0	14.0	700	230	2-1/2	2	2-1/4	9-1/4	
			DC 1.0	3.5	8.5	4460	125						
12	DS	DIFFERENTIAL D.P.D.T.	5	DC .04	.05	5.0	8000		1-13/16	1-3/16	2-3/8	7	3
13	E	S.P.D.T.	1	DC 0.5	.75	3.0	3100	55	15/16	1-1/16	1-1/16	1	
14	FID	S.P.S.T.	2	DC .08	.20	4.5	4900	31	1-3/8	1-3/16	1-3/8	2	
15	SW	S.P.D.T. D.P.D.T.	2.5	DC .003	.012	4.25	13800	230	1-7/16	1-1/16	1-19/32	2.5	2, 3
			.012	.050									
16	HRX	3.P.D.T.	15	AC 5.2	6.5	12.0	1800	230	1-1/2	2-11/16	1-5/8	6-3/4	8
			DC 1.5	3.0	7.0	4420	115						
17	PO	3 & 4.P.D.T.	15	AC 8.0	10.0	17.2	870	230	2-1/4	3.P.D.T. 1-5/8	1-7/8	7	2, 3, 7
			DC 1.0	2.5	8.2	5000	112						
18	POY	3 & 4.P.D.T.	15	DC 0.6	1.0	8.0	10000	110	2-1/4	4.P.D.T. 2-3/16	1-7/8	7	2, 3, 7
19	RA	CO-AXIAL S.P.D.T.	1.25 R.F.	DC 0.5	1.5	5.0	2000	55	2	2-7/8	1-3/4	4	4, 10
20	SK-C-C	D.P.D.T.	1	DC .340	2.5	4.2	4500	110	1-5/16	31/32	1-7/16	2.0	1, 3, 5
21	SK-CC-C	3.P.D.T.	1	DC .545	2.5	4.2	4500	110	1-1/2	31/32	1-7/16	2.1	3
22	SK-CC-CC	4.P.D.T.	1	DC .755	2.5	4.2	4500	110	1-1/2	31/32	1-7/16	2.5	3
23	TSL	D.P.D.T.	1	DC 0.5	1.0	5.0	2000	55	1-9/16	1-3/16	11/16	1	5
24	PR	4.P.D.T.	10	AC 4.8	6.0	13.0	620	220	2-1/16	1-7/8	1-1/8	5	3, 7
			DC 1.0	2.5	7.5	5700	110						
25	LK	6.P.D.T.	2	DC .040	.65	7.0	5200	110	1-5/8	1-3/32	2-7/32	4	1, 3
26	SKH	Hermetically sealed relay — data same as SK											
27	BOHO	Hermetically sealed relay — data same as BO											

ADDITIONAL FEATURES

1. Available with Standard Ceramic Insulation.
2. Available with bakelite base and screw terminals.
3. Available hermetically sealed.
4. Available with auxiliary contacts.
5. Available for low capacity.
6. For intermittent operation only.
7. Available in double-break contact arrangement.
8. Available with ceramic insulation only.
9. Listed by Underwriters' Laboratories, Inc.
10. Designed to handle a maximum of 75 watts of radio frequency up to 150 megacycles when inserted in a properly terminated 52 ohm line.

NOTE 1.
Minimum coil data applies where shock and vibration are not a factor.

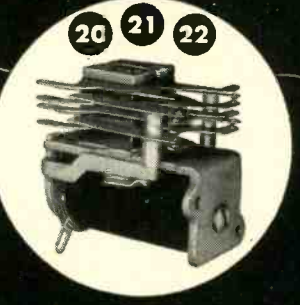
NOTE 2.
Maximum coil data based on 85°C rise above 20°C ambient for continuous operation except for mercury type relay which are based on 65°C ambient.



18



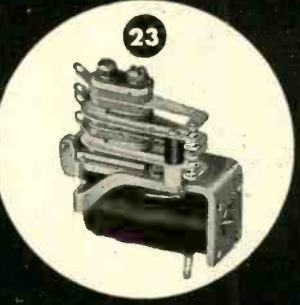
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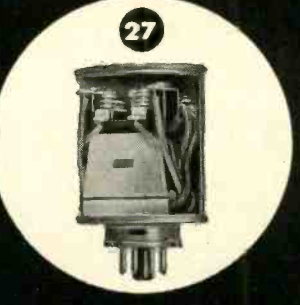
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27

RECTIFIER AND THYRATRON TUBES

HALF-WAVE RECTIFIERS



NL-614

1.



NL-615

2.



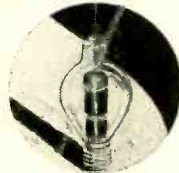
NL-617

3.



NL-618 • NL-618P

4.



NL-623

5.



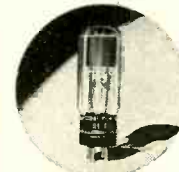
NL-625 & NL-627

6.



NL-635

7.



NL-649/5834/249R

8.

QUICK-HEATING INDUSTRIAL TYPES

Longest Life—
Longest Warranties
in the Industry

Illus. No.	Type Number	Gas Filling	DC Output Amps.	Peak Amps. Rating	Peak Inverse Volts	Filament Volts & Amps.
HALF-WAVE RECTIFIERS						
1	NL-614	Xenon	2.5	15	900	2.5v 8.5a
2	NL-615	Mercury	2.5	10	2000	2.5v 7a
3	NL-617	Mercury	5.0	20	1000	2. v 12a
4	NL-618	Xenon	6.4	40	750	2.5v 18a
5	NL-623	Mercury	15	45	500	2.5v 20a
6	NL-625	Mercury	15	45	900	2.5v 20a
6	NL-627	Mercury	20	120	1000	2.5v 26a
7	NL-635	Mercury	6.4	40	1000	2.5v 18a
8	NL-649/ 5834/249R	Mercury	2	10	900	2.5v 7a
THYRATRONS						
9	3C23 & 323B & 393A	Argon & Mercury	1.5	6	1250	2.5v 7a
10	NL-710	Argon & Mercury	2.5	30	1250	2.5v 9a
11	NL-714	Argon & Mercury	1	3	1250	2.5v 5a
11	NL-715/ FG-17/ 5557	Mercury	1	3	5000	2.5v 5a
12	NL-740	Argon & Mercury	4	50	1250	2.5v 16a
12	NL-741	Mercury	4	50	5000	2.5v 16a
FULL WAVE RECTIFIERS						
	NL-600	Argon & Mercury	1	4	900	2.5v 6a
13	NL-604	Argon & Mercury	2.5	10	900	2.5v 12a

THYRATRONS



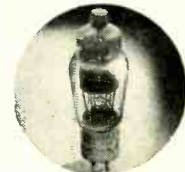
3C23 323B 393A

9.



NL-710

10.



NL-714 & 715/FG-17/5557

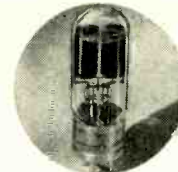
11.



NL-740 NL-741

12.

FULL-WAVE RECTIFIERS



NL-604

13.

NATIONAL TUBES
are produced by
Industrial Tube
specialists,
exclusively

Quick Heating — most
types require 5 to 30
seconds.

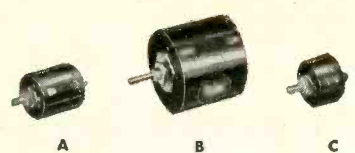
Long Life — full 1 year
operating warranty.

**WRITE FOR
TECHNICAL
DATA BOOK**

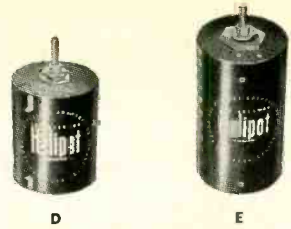
NATIONAL ELECTRONICS, INC.

GENEVA, ILLINOIS, U. S. A.

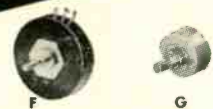
In this panel are illustrated standard models of HELIPOT multi-turn and single-turn precision potentiometers—available in a wide range of resistances and accuracies to fulfill the needs of nearly any potentiometer application. The Beckman DUODIAL is furnished in two designs and four turns-ratios, to add to the usefulness of the HELIPOT by permitting easy and rapid reading or adjustment.



MODELS A, B, & C HELIPOTS
 A—10 turns, 46" coil, 1-13/16" dia., 5 watts—resistances from 10 to 300,000 ohms.
 B—15 turns, 140" coil, 3-5/16" dia., 10 watts—resistances from 50 to 500,000 ohms.
 C—3 turns, 13-1/2" coil, 1-13/16" dia., 3 watts—resistances from 5 to 50,000 ohms.



MODELS D AND E HELIPOTS
 Provide extreme accuracy of control and adjustment, with 9,000 and 14,400 degrees of shaft rotation.
 D—25 turns, 234" coil, 3-5/16" dia., 15 watts—resistances from 100 to 750,000 ohms.
 E—40 turns, 373" coil, 3-5/16" dia., 20 watts—resistances from 200 ohms to one megohm.



MODELS F AND G PRECISION SINGLE-TURN POTENTIOMETERS
 Feature both continuous and limited mechanical rotation, with maximum effective electrical rotation. Versatility of designs permit a wide variety of special features.
 F—3-5/16" dia., 5 watts, electrical rotation 359°—resistances 10 to 100,000 ohms.
 G—1-5/16" dia., 2 watts, electrical rotation 356°—resistances 5 to 20,000 ohms.

LABORATORY MODEL HELIPOT

The ideal resistance unit for use in laboratory and experimental applications. Also helpful in calibrating and checking test equipment. Combines high accuracy and wide range of 10-turn HELIPOT with precision adjustability of DUODIAL. Available in eight stock resistance values from 100 to 100,000 ohms, and other values on special order.



MODELS R AND W DUODIALS
 Each model available in standard turns-ratios of 10, 15, 25 and 40 to 1. Inner scale indicates angular position of HELIPOT sliding contact, and outer scale the helical turn on which it is located. Can be driven from knob or shaft end.
 R—2" diameter, exclusive of index.
 W—4-3/4" diameter, exclusive of index. Features finger hole in knob to speed rotation.

FOR PRECISION POTENTIOMETERS

come to Helipot

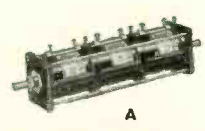
For many years The Helipot Corporation has been a leader in the development of all types of potentiometers. It pioneered the helipot potentiometer—the potentiometer now so widely used in electronic circuits, radar equipment, aviation devices and other military and industrial applications. It pioneered the duodial*—the turns-indicating dial that greatly simplifies the control of multiple-turn potentiometers and other similar devices. And it has also pioneered in the development of many other unique potentiometric advancements where higher skill coupled with ability to mass-produce to close tolerances have been imperative.

In order to meet rigid government specifications on these developments—and at the same time produce them economically—HELIPOT* has perfected unique manufacturing facilities, including high speed machines capable of winding extreme lengths of resistance elements employing wire even less than .001" diameter. These winding machines are further supplemented by special testing facilities and potentiometer "know-how" unsurpassed in the industry.

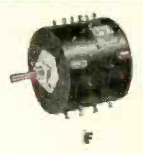
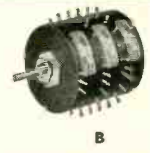
So if you have a problem requiring precision potentiometers your best bet is to bring it to The HELIPOT Corporation. A call or letter outlining your problem will receive immediate attention!

*Trade Marks Registered

The versatility of the potentiometer designs illustrated above permit a wide variety of modifications and features, including double shaft extensions, ganged assemblies, the addition of a multiplicity of taps, variation of both electrical and mechanical rotation, special shafts and mounting bushings, high and low temperature operation, and close tolerances on both resistance and linearity. Examples of potentiometers modified for unusual applications are pictured at right.



3-GANGED MODEL A HELIPOT AND DOUBLE SHAFT MODEL C HELIPOT
 All HELIPOTS, and the Model F Potentiometer, can be furnished with shaft extensions and mounting bushings at each end to facilitate coupling to other equipment. The Model F, and the A, B, and C HELIPOTS are available in multiple assemblies, ganged at the factory on common shafts, for the control of associated circuits.



MULTI-TAPPED MODEL B HELIPOT AND 6-GANGED TAPPED MODEL F
 This Model B Helipot contains 40 taps, placed as required at specified points on coil. The Six-Gang Model F Potentiometer contains 19 additional taps on the middle two sections. Such taps permit use of padding resistors to create desired non-linear potentiometer functions, with advantage of flexibility, in that curves can be altered as required.

THE Helipot CORPORATION, SOUTH PASADENA 7, CALIFORNIA

Timing Ideas

WHEN TIMING COUNTS



You can always count on Haydon to provide the right motor for your timing job. Timing Headquarters offers a broad line of efficient, economical timing motors and timers produced by specialists who have no other interest than to provide the best in timing.

LOW COST — 1600 SERIES:

Specifically designed for a standard component for the widest possible range of timing applications. Speeds from 300 rpm to 1 revolution per day.

COMPACTNESS — SLOW SPEED — 4400 SERIES:

Designed for size and low cost in applications requiring slow speeds from 6 hours to 7 days per revolution.

HEAVY DUTY DEPENDABILITY — 3100 SERIES:

For control and instrument applications that require a heavy duty train and speeds from 1 hour to 14 days per revolution.

SUPERIORITY FEATURES

Slow (450 rpm) rotor speed makes for quiet operation and long life. Unusually small. All motors totally enclosed. Separate rotor and reduction gearing lubricating systems permit selection of best methods and lubricants, control circulation, insure against leakage. Operates continuously in any position. Simple to mount, entire face of motor can be supported securely against mounting surface. Standard, interchangeable design in only 2 motor series with speed range from 300 rpm to 1 revolution in 7 days.

For complete design and engineering specifications, write for catalog: Timing Motors No. 322 — Timers No. 323 — Clock Movements No. 324. Yours without obligation.



1600



4400



3100



IF IT'S ABOUT TIME

Illustrated here are just a few of the many timing motors and timing devices we've designed and produced to solve the timing problems of our customers. Whether you can use a standard model — or whether you'll need a special design — you'll find that, in the long run, it'll pay to see Haydon* first.

STANDARD SPECIFICATIONS

Available for any size order; normally stocked in limited quantities.

THE 1600 SERIES

SPEEDS: 1/60, 1/45, 1/30, 1/15, 1/10, 1/6, 1/5, 1/4, 1/3, 1/2, 1, 2, 4, 5, 10, 30, 60 rpm

VOLTAGES: 115 standard; 230 to order

FREQUENCIES: 60 cps standard; 50 and 25 cps to order

ROTATION: Right (clockwise) standard; left (counter-clockwise) to order

SHAFT: 1/8" diameter x 3/8" long

WATTS INPUT (115V, 60 cps): 2.5

LEADS: 6", stripped 1/2"

TORQUE: 5 ounce inches @ 1 rpm (60 cps, 2.5 w); maximum torque load for standard gear train: 20 ounce inches

THE 4400 SERIES

SPEEDS: 6, 8, 12 hours and 1 or 7 days per revolution

VOLTAGES: 115 standard; 230 to order

FREQUENCIES: 60 cps standard; 50 and 25 cps to order

ROTATION: Right (clockwise) standard; left (counter-clockwise) to order

SHAFT: 1/8" diameter x 3/8" long

WATTS INPUT (115V, 60 cps): 2.5

LEADS: 6", stripped 1/2"

TORQUE: 20 ounce inches at all speeds, which is maximum torque load for standard gear train

THE 3100 SERIES

SPEEDS: 1, 12 hours, 1, 7, 14 days per revolution

VOLTAGES: 115 standard; 230 to order

FREQUENCIES: 60 cps standard; 50 and 25 cps to order

ROTATION: Left (counter-clockwise) standard; right (clockwise) to order

SHAFT: 3/16" diameter x 3/8" long, with .162 diameter flat

WATTS INPUT (115V, 60 cps): 2.5

LEADS: 12", stripped 1/2"

TORQUE: 15 pound inches at all standard speeds, which is maximum torque load for standard gear train

Many additional speeds and shafts available in quantities of 100 or more; also special voltage-frequency combinations.

*Trade Mark Reg. U. S. Pat. Off.

HAYDON

AT TORRINGTON

HEADQUARTERS FOR

TIMING

HAYDON Manufacturing Co., Inc.

500 ELM STREET

TORRINGTON, CONNECTICUT

SUBSIDIARY OF GENERAL TIME CORPORATION

...IT'S TIME TO SEE

HAYDON....

Some of our customers incorporate Haydon Timing Motors into their products. Others ask us to give them timing devices — in many cases devices especially designed for their application. Whatever your need may be, Haydon timing experience and facilities are at your disposal. Feel free to call on Haydon whenever you have a timing problem.

STANDARD SPECIFICATIONS

SERIES 8006 INTERVAL TIMER

Standard models for intervals of 1, 15, 60 and 180 minutes; dial and knob optional • Other models for intervals up to 24 hours or more available without dial or knob • HOLD feature optional • Switch rated 28A, 250 VAC; 1 HP 250 VAC • Removable dust cover for timer; motor totally enclosed • Settable in either direction, to start or when operating • Withstands high temperature and humidity conditions • U.L. Approved.

SERIES 8010 INTERVAL TIMER WITH BUZZER

Many intervals available with a wide range of motor speeds • Optional buzzer for audible signal at completion of cycle; sounds until turned off • Load contact ratings: 16A, 250 VAC; 1/2 HP, 250 VAC • Compact: 3-53/64" x 2-55/64" x 1-25/32" • Operates in any mounting position • U.L. Approved.

SERIES 5900 TIME DELAY RELAY

5901 Series adjustable time delay relays are available in delays of 15 seconds, 1, 10 and 5 minutes. 5902 Series, non-adjustable, available in delays of 12, 15, 30, 45 and 48 seconds and 1, 2, 3, 3-3/4, 4, 5, 6, 7-1/2, 8 and 10 minutes.

SERIES 5700 ELAPSED TIME INDICATORS

5701 and 02 Series are non-reset indicators, available for time registers of hours and tenths, hours, minutes and tenths, and minutes; total registers for 9,999.9 hours or minutes or 99,999.0 hours or minutes. 5704 and 07 Series are resettable units, with time registers for hours and tenths, hours, minutes and tenths, and minutes; total registers for 9,999.9 hours or minutes or 99,999.0 hours or minutes.

Timing Ideas

PRECISION PERFORMANCE

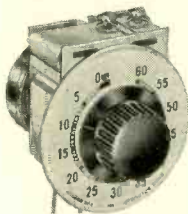
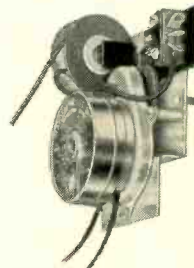


Manufacturers, recognizing that components of quality insure outstanding product performance, look to Haydon® at Torrington for timers and timing devices. All Haydon timers are made with the same precision as the Haydon motor — your guarantee of satisfactory performance. If you need a special design, you'll find Haydon's extensive engineering and development facilities without equal for service and results.

A few examples of basic Haydon timing units are featured below.

SERIES 8010 INTERVAL TIMER WITH BUZZER

Compact, low cost timer for volume production. Wide range of intervals. Audible (buzzer) signal optional. Quick break. Load contact rated 10A, 1/2 HP 250 VAC.

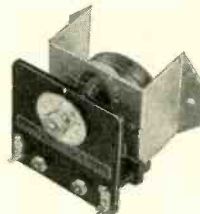


SERIES 8006 INTERVAL TIMER

Designed for heavy duty, this unit is available in quantities in standard models. Wide range of intervals. HOLD feature optional. Quick break. Totally enclosed. Switch rated 28A, 1 HP 250 VAC.

SERIES 5900 TIME DELAY RELAY

For use where positive, accurate time delay relay is imperative. Automatic reset. Fixed models for volume production; adjustable models in 4 delay ranges for general use.



SERIES 5700 ELAPSED TIME INDICATOR

Synchronous timing motors with cyclometer type counters for metering elapsed time. Rugged models for wide range of timing, recording operations; in several registers, resettable or non-resettable.

TRADE MARK REG. U.S. PAT. OFF.

For complete design and engineering specifications, write for catalog: Timing Motors No. 322 — Timers No. 323 — Clock Movements No. 324. Yours without obligation.

HAYDON Manufacturing Co., Inc.

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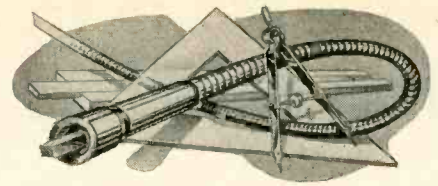
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Voltages stay put when D. Espy supplies are used, even under wide line and load variations. That means dollars and cents to you, for it gives you control over test variables — saves valuable engineering time. And you have a versatile instrument that's equally good for precision applications or general laboratory use. Check the specs; then order for your lab.

MODEL P-11 —

- 0 to +400 v.d-c, 200 ma.
- Regulation within 0.1 volt
- Continuously variable
- Hum less than 10 mv.
- 0 to -150 v.d-c for bias
- 6.3 v.a-c, 6 amperes
- Metered output
- Voltages front and rear
- Voltage connections isolated from chassis ground
- SLO-DOWN circuit prevents initial voltage surge at terminals
- Line and hi-voltage fuses on panel
- Rack type panel, with cabinet
- 105/125 v. 50/60 cps source
- \$350.00, f.o.b. Los Angeles

MODEL P-12 —

- 0 to +600 v.d-c, 300 ma.
- Other features same as P-11
- Heavy duty construction
- \$475.00, f.o.b. Los Angeles

MODEL P-14 —

- +200 to +1000 v.d-c, 500 ma.
- Regulation better than 0.5%
- Hum less than 20 mv.
- Other features same as P-11
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● Red Label Irons



These are the irons that are used so universally in factory production lines. They are light weight, finely balanced, and have the coolest handles of any irons on the market. Elements are mounted and held in place with a knurled nut which engages the back end of the element and seats against the shoulder of the case shell, holding the element firmly in place regardless of the most rugged use. They are ideal from a maintenance standpoint for, due to their two piece combination terminal and handle, elements are replaceable in three minutes or less. The only iron on the market designed for use with or without a ground wire.

Irons are normally supplied in four wattages. They are obtainable, when required in quantity, in special wattages at no extra cost. Standard voltages are 105-120 and 220-240. Special voltages may be had. List prices of irons are as follows: No. 38-100 watt \$6.95, No. 58-200 watt \$8.95, No. 78-300 watt \$10.95 and No. 98-550 watt \$12.95. The iron illustrated is the No. 38 and is 1/2 actual size.

● No. 61 Pencil Iron



This pencil iron is only seven inches in length and weighs just 2 1/2 ounces exclusive of cord. The handle temperature at the point where it is held in the fingers, is actually no higher than body temperature. Diameter of handle is 3/4" and may be used as a pencil for the most delicate soldering operations. The element construction is of the same type as used in ESICO industrial irons and will give long service. The tip is the so called plug type, held in place with a set screw. Three shapes of tips are available, Type B - 1/4" dia. pyramid point, Type A - 1/8" dia. straight pencil point and Type C - 1/8" dia. bent 90 degrees with a pencil point.

The No. 61 is regularly wound to 25 watts of 105-120 volts, but may be had in higher wattages, when required in quantities at no extra cost. List price of iron is \$4.95. Tips A, B, or C 30¢ each list. Irons are available thru any of the better tool or Radio & Electronic Supply houses. If your distributor can not supply you from stock, send your order direct to us, but please be sure and give name of your distributor.

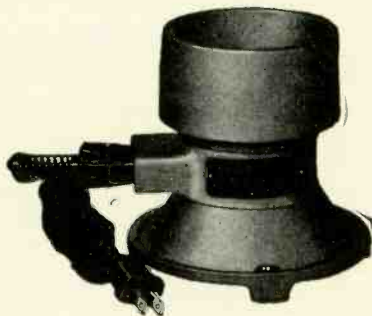
● Solder Pots

Ruggedly constructed cast iron pots, with easily replaceable elements.

Model No. 12-3/4 lb cap. 200 watt
Net \$4.50

Model No. 36-2 1/4 lbs cap. 250 watt
Net \$5.50

Model No. 60-3 3/4 lbs cap. 325 watt
Net \$6.50



● Temperature Control Stand

This control stand is thermostatically actuated by the tip temperature of the iron. This is the only logical way to control the temperature of a soldering iron, for there is too much lag between element and tip temperature for the application of a thermostat to the element, whether in an iron or a control stand. Cat. No. 5, irons up to 1" dia. tip; Cat. No. 6, irons 1" to 1 1/8" dia. tips. List price \$6.50.



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PRECISION MEASURING INSTRUMENTS FOR THE RADIO AND ELECTRONIC INDUSTRY



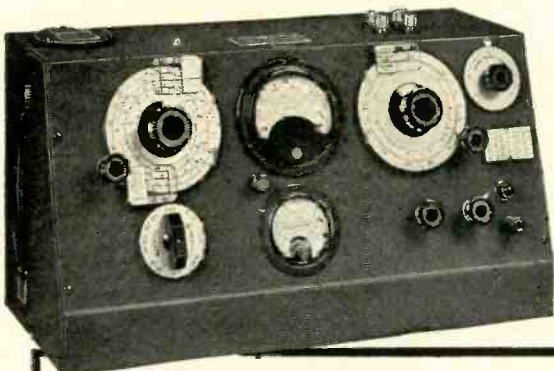
FM SIGNAL GENERATOR TYPE 202-B

RF COVERAGE: 54—216 megacycles in two ranges; accuracy $\pm 0.5\%$.
 FM DEVIATION: Three ranges, 0—24 kc., 0—80 kc., 0—240 kc., continuously adjustable.
 FM DISTORTION: Less than 2% at 75 kc. deviation.
 AMPLITUDE MODULATION: One range, 0—50%; calibrations at 30% and 50% modulation.
 INTERNAL MODULATING FREQUENCIES: Eight frequencies from 50 cycles to 15 kc.
 RF OUTPUT: 0.1 microvolt to 0.2 volt, continuously adjustable by means of 26.5 ohm piston type attenuator.



UNIVERTER TYPE 203-B

An FM-AM frequency converter accessory with unity gain for use with 202-B FM Signal Generator.
 RF RANGE: 0.4 mc. to 25 mc.
 RF INCREMENT DIAL: ± 250 kc. in 10 kc. increments.
 RF OUTPUT: 0.1 microvolt to 0.1 volt, calibrated output (26.5 ohms); 2 volts max. uncalibrated output (approx. 470 ohms).

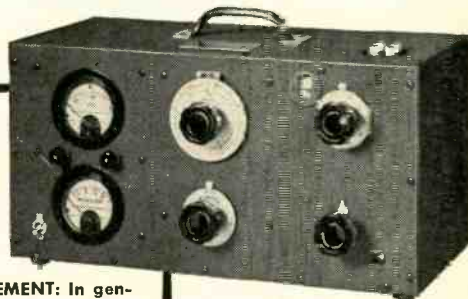


Q-METER TYPE 160-A

FREQUENCY RANGE: 50 kc. to 75 mc. ($\pm 1\%$, 50 kc.—50 mc.; $\pm 3\%$, 50 mc.—75 mc.). May be extended down to 1 kc. with external accessory oscillator.
 RANGE OF Q MEASUREMENTS, COILS: 50—625.
 ACCURACY OF Q MEASUREMENT: In general, $\pm 5\%$.
 RANGE OF Q TUNING CAPACITOR: Main Section, 30—450 mmf. ($\pm 1\%$ or ± 1 mmf., whichever is greater). Vernier Section, plus 3, zero, minus 3 mmf. (± 0.1 mmf.).

Q-METER TYPE 170-A

FREQUENCY RANGE:
 30 mc. to 200 mc. ($\pm 1\%$).
 RANGE OF Q MEASUREMENT: 80—1200.
 ACCURACY OF Q MEASUREMENT: In general, $\pm 10\%$.
 RANGE OF Q TUNING CAPACITOR: 11—60 mmf. ($\pm 1\%$ or ± 0.5 mmf., whichever is greater).



OMNI RANGE

SIGNAL GENERATOR

TYPE 211-A FREQUENCY RANGE: 88-140 megacycles in one range. Also two crystal controlled frequencies: 110.100 and 114.900 mc., each accurate to $\pm 0.0035\%$.
 AMPLITUDE MODULATION: Two ranges, 0-30% and 0-100%. Fidelity ± 0.5 db., 30 cycles to 11 kc.
 INTERNAL AUDIO OSCILLATOR: Two modulating frequencies, 400 and 1000 cycles.
 PHASE DISTORTION: Less than 0.25 degrees at 30 cycles up to 60% AM.
 OUTPUT VOLTAGE: 0.2 volts maximum across 26.5 ohms.

QX-CHECKER TYPE 110-A

FREQUENCY RANGE: 100 kc. to 25 mc. using accessory plug-in inductors. A calibration sheet is supplied with each inductor, accurate to within $\pm 3\%$.
 RANGE OF COIL CHECKS: Inductors having values between 10 microhenries and 10 millihenries may be checked against a standard to an accuracy of about $\pm 0.2\%$ provided the Q of the inductor is 100 or greater.
 CAPACITANCE RANGE: Capacitance values between about 2—1000 mmf. may be checked against standard by direct substitution, with an accuracy of a few tenths of one mmf., provided Q of capacitors is high.



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(Model 901) **PORTABLE TEST INSTRUMENTS** available in DC, Model 901—and AC, Model 904, single and multiple ranges of wide coverage. Excellent scale readability and shielding. Accuracy within 1/2 of 1%.



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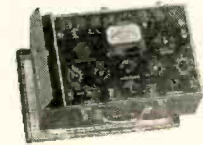
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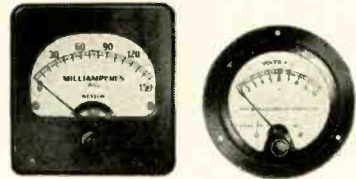
Illustrated are but a few of the many specialized instruments available from WESTON . . . all designed to simplify and speed-up electrical and electronic installations, production testing, and maintenance. For details, see your local representative, or write Weston Electrical Instrument Corporation, 618 Frelinghuysen Avenue, Newark 5, New Jersey.

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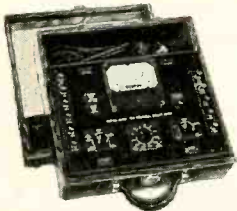
(Model 798) **MULTI-PURPOSE TUBE-CHECKER** offering provision for testing Receiving Tubes—Voltage Regulator Tubes—Light Duty Thyatron Tubes such as 2A4—6D4—884—885—2051. Scale is calibrated "Good-Bad" as well as in mutual conductance range.



PANEL and SWITCHBOARD INSTRUMENTS a complete line of instruments in all types, sizes and ranges required for switchboard and panel needs . . . including DC, AC power frequencies and radio frequency, rectifier types and D.B. meters.



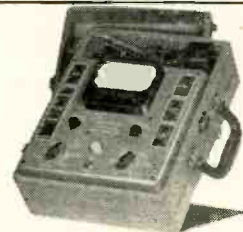
(Model 697) **VOLT-OHM MILLIAMMETER** one of a line of pocket-size meters, Model 697 combines a selection of AC and DC voltage, DC current, and resistance ranges. Ideal for maintenance testing and many inspection requirements.



(Model 785) **INDUSTRIAL CIRCUIT TESTER** a versatile, portable tester for laboratory or maintenance needs, where an ultra-sensitive instrument is required. Provides 27 AC and DC voltage, AC and DC current, and resistance ranges. (DC sensitivity 20,000 ohms per volt.)



(Model 779, Type 1) **SUPER-SENSITIVE ANALYZER** small, light, compact, 26 range Volt-Ohm-Milliammeter with 5 DC voltage ranges, sensitivity of 1000 or 20,000 ohms per volt. AC temperature compensated. Self-contained power supply. Ideal for many production and test requirements.



(Model 769) **ELECTRONIC ANALYZER** incorporating a conventional Volt-Ohm-Milliammeter with self-contained power source—a high-impedance electronic Volt-Ohmmeter using 115 volt, 60 cycle power—a stable, probe-type, Vacuum Tube Voltmeter, for use to 300 megacycles.

"EVEREADY" RADIO BATTERIES

BRAND

TYPES	VOLTAGE	LENGTH	WIDTH	HEIGHT	TERMINALS	SUGGESTED CURRENT RANGE	WEIGHT BATTERY
"A-B" PACKS FOR HOME RECEIVERS							
758	1.5 A 90 B	10 $\frac{11}{16}$ "	4 $\frac{1}{8}$ "	6 $\frac{11}{16}$ "	Socket —, +1.5 Socket —, +90	A: 200-300 m.a. B: 7.0-12.0 m.a.	14 lb. 8 oz.
759	1.5 A 90 B	15 $\frac{11}{16}$ "	4 $\frac{5}{16}$ "	6 $\frac{11}{16}$ "	Socket —, +1.5 Socket —, +90	A: 200-300 m.a. B: 7.0-12.0 m.a.	17 lb. 6 oz.
"A-B" PACKS FOR PORTABLE RECEIVERS							
753	7.5 & 9 A 90 B	9 $\frac{7}{32}$ "	2 $\frac{11}{16}$ "	4 $\frac{5}{16}$ "	Socket —, +7.5 & 9 Socket —, +90	A: 50 m.a. B: 5.0-15.0 m.a.	4 lb. 15 oz.
754	7.5 & 9 A 90 B	10 $\frac{11}{16}$ "	3 $\frac{1}{4}$ "	4"	Socket —, +7.5 & 9 Socket —, +90	A: 50 m.a. B: 5.0-15.0 m.a.	6 lb. 8 oz.
755	6 & 7 $\frac{1}{2}$ A 75 B	8 $\frac{9}{16}$ "	2 $\frac{7}{16}$ "	3 $\frac{3}{4}$ "	Socket —, +6 & 7 $\frac{1}{2}$ Socket —, +75	A: 50 m.a. B: 5.0-15 m.a.	3 lb. 8 oz.
756	7.5 + 9A 90 B	8 $\frac{7}{8}$ "	2 $\frac{1}{8}$ "	3 $\frac{11}{16}$ "	Socket —, +7 $\frac{1}{2}$ +9 Socket —, +90	A: 50 m.a. B: 5.0-15 m.a.	2 lb. 14 oz.
"A" BATTERIES FOR HOME RECEIVERS							
A-1300*	1.25	5 $\frac{5}{16}$ "	4 $\frac{1}{2}$ "	8 $\frac{5}{8}$ "	Socket —, +1.25	100-660 m.a.	6 lb.
#6 Dry Cell	1.5	2 $\frac{5}{8}$ " D		6 $\frac{5}{8}$ "	Screw —, +1.5	100-250 m.a.	2 lb. 2 oz.
"B" BATTERY FOR HOME RECEIVERS							
487	45	5 $\frac{1}{8}$ "	2 $\frac{1}{8}$ "	7 $\frac{1}{4}$ "	Socket —, +22.5, +45	7.0-12.0 m.a.	4 lb. 4 oz.
"A" BATTERIES FOR PORTABLE RECEIVERS							
717	7 $\frac{1}{2}$	2 $\frac{7}{32}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{32}$ "	Socket —, +7 $\frac{1}{2}$	50 m.a.	8 $\frac{3}{4}$ oz.
718	6	3 $\frac{11}{16}$ "	2 $\frac{3}{4}$ "	5 $\frac{7}{16}$ "	Socket —, +6	50 m.a.	2 lb. 13 oz.
720	1.5	2 $\frac{11}{16}$ "	1 $\frac{3}{8}$ "	3 $\frac{1}{16}$ "	Socket —, +1.5	100 m.a.	6 $\frac{1}{2}$ oz.
724	6	1 $\frac{5}{16}$ "	1 $\frac{5}{16}$ "	2 $\frac{1}{16}$ "	Flat Contact —, +6	50 m.a.	2 $\frac{2}{3}$ oz.
726	4.5	3 $\frac{1}{8}$ "	1 $\frac{7}{16}$ "	2 $\frac{1}{8}$ "	Socket —, +4.5	50 m.a.	10 $\frac{1}{2}$ oz.
736	4 $\frac{1}{2}$	3 $\frac{1}{16}$ "	1 $\frac{1}{16}$ "	4 $\frac{3}{32}$ "	Socket —, +4.5	50 m.a.	1 lb. 1 oz.
741	1.5	3 $\frac{7}{8}$ "	2 $\frac{1}{16}$ "	5 $\frac{3}{8}$ "	Socket —, +1.5	100-350 m.a.	2 lb. 13 oz.
742	1.5	2 $\frac{1}{16}$ "	2 $\frac{1}{16}$ "	3 $\frac{1}{16}$ "	Socket —, +1.5	100-250 m.a.	1 lb. 6 oz.
743	1.5	3 $\frac{1}{8}$ "	2 $\frac{5}{8}$ "	4 $\frac{3}{32}$ "	Socket —, +1.5	100-300 m.a.	2 lb. 1 oz.
744	6	2 $\frac{11}{16}$ "	2 $\frac{11}{16}$ "	3 $\frac{1}{16}$ "	Socket —, +6	50 m.a.	1 lb. 6 oz.
745	1.5	3 $\frac{7}{8}$ "	1 $\frac{7}{16}$ "	10 $\frac{11}{16}$ "	Socket —, +1.5	100-350 m.a.	2 lb. 13 oz.
746	4.5	3 $\frac{1}{16}$ "	1 $\frac{7}{16}$ "	4 $\frac{1}{16}$ "	Socket —, +4.5	50 m.a.	1 lb. 4 oz.
747	6	3 $\frac{7}{8}$ "	1 $\frac{7}{16}$ "	10 $\frac{11}{16}$ "	Socket —, +6	50 m.a.	2 lb. 13 oz.
"B" BATTERY FOR PORTABLE RECEIVERS							
482	45	3 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "	5 $\frac{1}{2}$ "	Socket —, +45	5.0-15.0 m.a.	1 lb. 14 oz.
"A" BATTERY FOR PERSONAL RECEIVERS							
950	1.5	1 $\frac{21}{64}$ " D		2 $\frac{3}{4}$ "	Flat Contact —, +1.5	25-250 m.a.	3 $\frac{1}{3}$ oz.
"B" BATTERIES FOR PERSONAL RECEIVERS							
455	45	2 $\frac{1}{16}$ "	1"	3 $\frac{1}{16}$ "	Snap Type —, +45	1.0-10.0 m.a.	8 oz.
457	67.5	2 $\frac{1}{16}$ "	1 $\frac{3}{8}$ "	2 $\frac{1}{2}$ "	Snap Type —, +67.5	0.5-2.0 m.a.	7 $\frac{3}{8}$ oz.
467	67.5	2 $\frac{1}{16}$ "	1 $\frac{3}{8}$ "	3 $\frac{1}{16}$ "	Snap Type —, +67.5	1.0-10.0 m.a.	12 oz.
490	90	3 $\frac{1}{16}$ "	1 $\frac{3}{8}$ "	3 $\frac{1}{16}$ "	Snap Type —, +90	1.0-10.0 m.a.	1 lb. $\frac{1}{2}$ oz.
"A" BATTERIES FOR POCKET RECEIVERS							
915	1.5	3 $\frac{5}{64}$ " D		1 $\frac{1}{16}$ "	Flat Contact —, +1.5	25-100 m.a.	$\frac{1}{2}$ oz.
1016	1.5	1 $\frac{3}{64}$ " D	$\frac{1}{16}$ "	2 $\frac{3}{64}$ "	Flat Contact —, +1.5	25-100 m.a.	1.1 oz.
"B" BATTERIES FOR POCKET RECEIVERS							
411	15	1 $\frac{1}{32}$ "	$\frac{5}{8}$ "	1 $\frac{29}{64}$ "	Flat Contact —, +15	0.3-1.0 m.a.	1 oz.
412	22.5	1 $\frac{1}{32}$ "	$\frac{5}{8}$ "	2"	Flat Contact —, +22.5	0.3-1.0 m.a.	1 $\frac{1}{2}$ oz.
413	30	1 $\frac{1}{32}$ "	$\frac{5}{8}$ "	2 $\frac{3}{16}$ "	Flat Contact —, +30	0.3-1.0 m.a.	1 $\frac{2}{3}$ oz.
417	15	1 $\frac{5}{16}$ "	$\frac{3}{16}$ "	1 $\frac{5}{16}$ "	Flat Contact —, +15	0.5-2.0 m.a.	1 $\frac{2}{3}$ oz.
420	22.5	1 $\frac{5}{16}$ "	$\frac{3}{16}$ "	2 $\frac{3}{16}$ "	Flat Contact —, +22.5	0.5-2.0 m.a.	2 $\frac{1}{2}$ oz.
430	30	1 $\frac{5}{16}$ "	1"	2 $\frac{1}{16}$ "	Flat Contact —, +30	0.5-2.0 m.a.	3 oz.

*"Air-Cell" Battery

These Battery Engineering Bulletins are available on request: 1. Batteries for post-war electronic equipment. 2. "Mini-Max" "A-B" packs for 1.4 volt receivers. 3. Batteries for vacuum tube hearing aids. 4. High voltage batteries.



The registered trade-marks "Eveready," "Mini-Max," and "Air-Cell" distinguish products of

NATIONAL CARBON DIVISION

UNION CARBIDE AND CARBON CORPORATION

30 East 42nd Street, New York 17, N. Y.

VOLTAGE CONTROL

POWERSTAT VARIABLE TRANSFORMERS

POWERSTAT variable transformers are autotransformers of torodial core design with a movable brush-tap, which rotates to deliver a continuously-adjustable output voltage from o-c power lines. Manually-operated or motor-driven models are available. POWERSTATS feature excellent regulation, conservative ratings, standard mountings, smooth control and high efficiency. There's a POWERSTAT to meet every requirement.

RATINGS OF STANDARD TYPES

Although not all of the standard units are listed, the chart below indicates the wide range of types offered.

Line Voltage	Output Voltage	Maximum Output Amperes	Output KVA	Frequency	Type	†Standard Motor Speeds	
Single Phase							
115	0-135	3.0	0.4	*60	20	—	
	0-135	7.5	1.0	50/60	116	5	
	0-135	15.0	2.0	50/60	1126	6, 14, 19, 45	
	0-135	30.0	4.0	50/60	1126-2P	6, 14, 19, 45	
	0-135	45.0	6.1	50/60	1156	6, 14, 19, 45	
	0-135	90.0	12.1	50/60	1156-2P	6, 14, 19, 45	
	0-135	135.0	18.2	50/60	1156-3P	6, 14, 19, 45	
	0-135	180.0	24.3	50/60	1156-4P	14, 19, 45	
	0-135	270.0	36.4	50/60	1156-6P	14, 19, 45	
	0-270	3.0	0.35	50/60	216	5	
	0-270	9.0	1.05	50/60	1226	6, 14, 19, 45	
	0-270	28.0	3.27	50/60	1256	6, 14, 19, 45	
	230	0-270	3.0	0.81	50/60	216	5
		0-270	7.5	2.0	50/60	116-2S	5
		0-270	9.0	2.4	50/60	1226	6, 14, 19, 45
0-270		15.0	4.0	50/60	1126-2S	6, 14, 19, 45	
0-270		28.0	7.5	50/60	1256	6, 14, 19, 45	
0-270		45.0	12.1	50/60	1156-2S	6, 14, 19, 45	
0-270		56.0	15.1	50/60	1256-2P	6, 14, 19, 45	
0-270		84.0	22.7	50/60	1256-3P	6, 14, 19, 45	
0-270		112.0	30.2	50/60	1256-4P	14, 19, 45	
0-270		168.0	45.0	50/60	1256-6P	14, 19, 45	
0-540		3.0	0.7	50/60	216-2S	5	
0-540		9.0	2.1	50/60	1226-2S	6, 14, 19, 45	
0-540		28.0	6.5	50/60	1256-2S	6, 14, 19, 45	
460		0-540	3.0	1.6	50/60	216-2S	5
		0-540	9.0	4.8	50/60	1226-2S	6, 14, 19, 45
	0-540	28.0	15.1	50/60	1256-2S	6, 14, 19, 45	
	0-540	56.0	30.2	50/60	1256-4PS	14, 19, 45	
	0-540	84.0	45.3	50/60	1256-6PS	14, 19, 45	
Three Phase							
115	0-135	3.0	0.7	*60	20-2D	—	
	0-135	7.5	1.8	50/60	116-2D	5	
	0-135	15.0	3.5	50/60	1126-2D	6, 14, 19, 45	
	0-135	45.0	10.5	50/60	1156-2D	6, 14, 19, 45	
	0-135	90.0	21.0	50/60	1156-4D	14, 19, 45	
	0-135	135.0	31.6	50/60	1156-6D	14, 19, 45	
	0-270	3.0	0.6	50/60	216-2D	5	
	0-270	9.0	1.8	50/60	1226-2D	6, 14, 19, 45	
	0-270	28.0	5.7	50/60	1256-2D	6, 14, 19, 45	
	230	0-230	3.0	1.2	60	20L-3Y	—
0-270		3.0	1.4	50/60	216-2D	5	
0-270		7.5	3.5	*60	116-3Y	5	
0-270		9.0	4.2	50/60	1226-2D	6, 14, 19, 45	
0-270		15.0	7.0	*60	1126-3Y	6, 14, 19, 45	
0-270		28.0	13.1	50/60	1256-2D	6, 14, 19, 45	
0-230		45.0	17.9	50/60	1156L-3Y	6, 14, 19, 45	
0-270		56.0	26.2	50/60	1256-4D	14, 19, 45	
0-270		84.0	39.3	50/60	1256-6D	14, 19, 45	
0-230		90.0	35.8	50/60	1156L-6Y	14, 19, 45	
0-540		3.0	1.2	*60	216-3Y	5	
0-540		9.0	3.6	*60	1226-3Y	6, 14, 19, 45	
0-540		28.0	11.3	*60	1256-3Y	6, 14, 19, 45	
460		0-540	3.0	2.8	*60	216-3Y	5
		0-540	9.0	8.3	*60	1226-3Y	6, 14, 19, 45
	0-540	28.0	26.1	*60	1256-3Y	6, 14, 19, 45	
	0-540	56.0	52.2	*60	1256-6Y	14, 19, 45	

* When these POWERSTATS are "L" connected so that output does not exceed applied voltage, frequency range is 50/60 cycles.

† Seconds required for full range travel.

Type 20



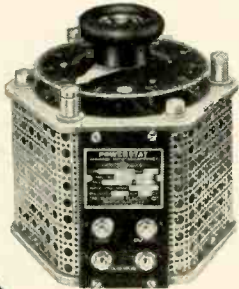
Type 116U



Type 116
216



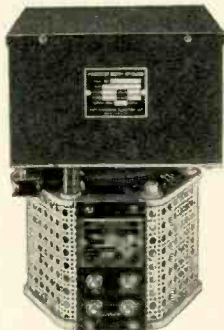
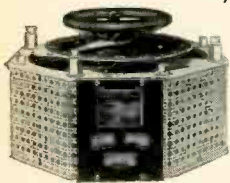
Type 1126



Type 2PF1126



Type 1156



Type M1126



Type 116-3

Type 0-116



THE SUPERIOR ELECTRIC COMPANY, BRISTOL, CONN.

by SUPERIOR

STABILINE VOLTAGE REGULATORS

Input Voltage Range	Output Voltage Range	Frequency In Cycles	Load Range In Amperes	Load Power Factor Range	Rated Output KVA	Type	
95-135	110-120	60 ± 10%	0 - 2.2	.5 lagging	0.25	IE51002	
95-135	110-120	60 ± 10%	0 - 2.2		0.25	IE51002R	
95-135	110-120	60 ± 10%	0 - 4.5		0.5	IE51005	
95-135	110-120	60 ± 10%	0 - 4.5		0.5	IE51005R	
95-135	110-120	50 ± 10%	0 - 4.5		0.5	IEL51005	
95-135	110-120	50 ± 10%	0 - 4.5		0.5	IEL51005R	
195-255	220-240	50 ± 10%	0 - 2.2		to	0.5	IEL52005
195-255	220-240	50 ± 10%	0 - 2.2		0.5	IEL52005R	
95-135	110-120	60 ± 10%	0 - 8.5		.9 leading	1.0	IE5101
95-135	110-120	60 ± 10%	0 - 8.5			1.0	IE5101R
95-135	110-120	50 ± 10%	0 - 8.5	1.0		IEL5101	
95-135	110-120	50 ± 10%	0 - 8.5	1.0		IEL5101R	
195-255	220-240	50 ± 10%	0 - 4.5	1.0		IEL5201	
195-255	220-240	50 ± 10%	0 - 4.5	1.0		IEL5201R	
95-135	110-120	60 ± 10%	0 - 22.0	2.5		IE5102	
95-135	110-120	60 ± 10%	0 - 22.0	2.5		IE5102R	
195-255	220-240	60 ± 10%	0 - 11.0	2.5		IE5202	
195-255	220-240	60 ± 10%	0 - 11.0	2.5		IE5202R	
195-255	220-240	50 ± 10%	0 - 11.0	2.5	IEL5202		
195-255	220-240	50 ± 10%	0 - 11.0	2.5	IEL5202R		
95-135	110-120	60 ± 10%	0 - 43.5	5.0	IE5105		
195-255	220-240	60 ± 10%	0 - 22.0	5.0	IE5205		

INSTANTANEOUS ELECTRONIC MODELS

Completely electronic voltage regulators; instantaneous in action; no moving parts. Waveform distortion never exceeds 3%. Output voltage is held to ±0.1% regardless of line fluctuations; to within ±0.15% regardless of load changes. Available in numerous ratings — cabinet or rack-mounting models.



TYPE IE5101R

ELECTROMECHANICAL MODELS

Consist of electronic detector circuit controlling motor-driven POWERSTAT variable transformer. Feature zero waveform distortion; insensitivity to magnitude and power factor of load. No effect on system power factor; no critical adjustments. High efficiency and adjustable output voltage. These models maintain constant output voltage regardless of variations in input voltage or load current.



TYPE EM4115

Nominal Output Voltage	Input Voltage Range	Output Voltage Range	Output Current (Amperes)	Output KVA	Type
Single Phase	115	95-135	17.5	2.0	EM4102
			52.0	6.0	EM4106
			130.0	15.0	EM4115
230	195-255	220-240	32.5	7.5	EM4207
			120.0	27.5	EM4228
440	380-500	420-460	15.0	6.6	EM4407
			40.0	17.6	EM4418
Three Phase	230	195-255	25.0	10.0	EM6210Y
			38.0	15.0	EM6215Y
			50.0	20.0	EM6220Y
			113.0	45.0	EM6245Y
			175.0	70.0	EM6270D
			16.0	12.0	EM6412Y
440	380-500	420-460	22.0	17.0	EM6417Y
			33.0	25.0	EM6425Y
			66.0	50.0	EM6450Y
			100.0	75.0	EM6475Y
			131.0	100.0	EM64100Y
			400-480	420-460	

VOLTBOX a-c power supplies

TYPE UC1M

Compact, portable sources of variable a-c voltage. All components in cast aluminum case. Type UC1M: 115 volts, 50/60 cycles, 1 phase; 0-135 volts, 7.5 amperes output. Type UC2M: 230 volts, 50/60 cycles, 1 phase; 0-270 volts, 3.0 amperes output.



5-WAY BINDING POST

TYPE DF30

1. Permanent clamping.
2. Spade lug.
3. Clip-lead.
4. Plug-in for banana plug.
5. Looping and clamping.



THE VARICELL

This ideal source of low d-c voltage provides: a variable range of d-c voltage; operation from a-c source; compensation for load changes; elimination of line variations in output; extremely low ripple voltage.

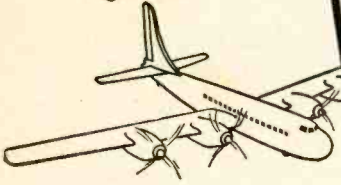
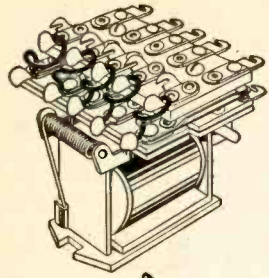
Engineering service available for overcoming your voltage problems. Write for Bulletins P550 and S750, illustrated voltage control engineering data catalogs.

4000 MEADOW STREET
BRISTOL, CONNECTICUT

THE SUPERIOR ELECTRIC CO.
BRISTOL, CONNECTICUT

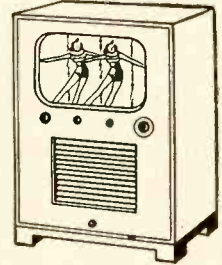
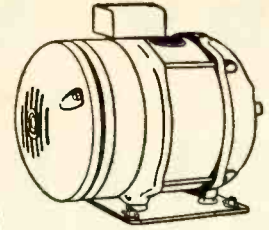


POWERSTAT VARIABLE TRANSFORMERS • VOLTBOX A-C POWER SUPPLIES • STABILINE VOLTAGE REGULATORS



WANTED

Tough Insulation Problems



Put BH Fibreglas Sleeving or Tubing to work on tough insulation problems in your product or plant equipment and eliminate the possibilities of insulation breakdown. Whether the problem is excessive current load, vibration, extreme temperatures, greases, oils or moisture — or when flexi-

bility is essential — there is a BH product to solve it. Write for samples for laboratory and production testing. Include a few facts about your product, requirements, voltages and temperatures encountered. Let BH Fibreglas insulations do a better job for you. BENTLEY HARRIS MFG. CO., CONSHOHOCKEN, PA.

BH EXTRA FLEXIBLE FIBERGLAS SLEEVING

Remarkably flexible because no hardening varnish is used. Cuts without fraying and is non-combustible. Available in all colors. Basic sleeving withstands heat to 1200°F. Color unaffected up to 300°F.

BH SPECIAL TREATED FIBERGLAS SLEEVING

Heat resistant to 1200°F. Supplied in natural color only. Where colors are required, specify BH Extra Flexible. Cuts clean. Maximum flexibility. Unsaturated. Also available in 1/32" and 1/16" minimum wall.

OTHER BH FIBERGLAS PRODUCTS

Ben Har Special Treated Fibreglas Tubing: available in Grade A-1 — 7000V and Grade B-1 — 4000V. Flexibility combined with toughness. *Saturated Fibreglas Sleeving:* available in Grades C-1, C-2 and C-3. Special treated to prevent fraying.

BH "649"

A superior Fibreglas insulation at the price of ordinary cotton-base or rayon-base insulations. Available in Grades A-1, B-1, C-1, C-2. In all sizes from No. 24 to 5/8" inclusive.

Retains rated dielectric strength even after rough handling, severe bending. Often a less expensive grade of insulation can be used since there is little or no loss of dielectric strength in assembly or product use.

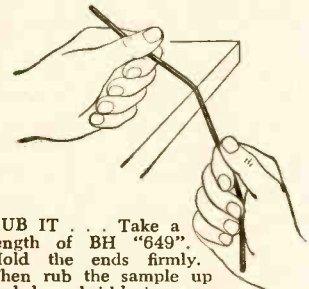
Non-burning, non-fraying, non-stiffening. Stays supple after baking 12 hours at 300°F. No flowing, softening or blistering after 15 minutes at 425°F. Physical and dielectric properties unimpaired after baking at 220°F. to 280°F. for 1,000 hours.

BH RAYON OR COTTON-BASE SLEEVING AND TUBING

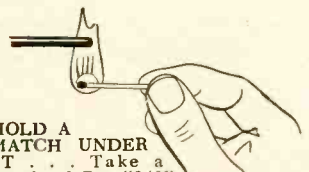
Tubing: Magneto Varnished Tubing Grade "A-2"; Flexible Varnished Tubing Grade "B-2". *Sleeving:* Saturated Sleeving Grades C-1, C-2, C-3.



KNOT IT . . . Take a length of BH "649". Knot it. Pull it as tight as you can. Twist it. Then loosen the knot. There is no cracking. No change in the dielectric strength.



RUB IT . . . Take a length of BH "649". Hold the ends firmly. Then rub the sample up and down briskly in a sawing motion against a desk or chair. See how difficult it is to damage the coating.



HOLD A MATCH UNDER IT . . . Take a length of BH "649". Hold a lighted match under it. BH "649" will not support combustion.

BH Fibreglas* SLEEVINGS

*BH Non-Fraying Fibreglas Sleeveings are made by an exclusive Bentley, Harris process (U. S. Pat. No. 2393530). "Fibreglas" is Reg. TM of Owens-Corning Fibreglas Corp.

COUPON

Bentley, Harris Mfg. Co., Dept. E-6, Conshohocken, Pa.

I am interested in BH Fibreglas Insulations _____ for _____ (size or I.D.) _____ operating at temperatures of _____°F. at _____ volts. Send samples (product) _____ so I can see how BH Fibreglas Sleeving stays flexible as string, will not crack when bent.

NAME _____ COMPANY _____

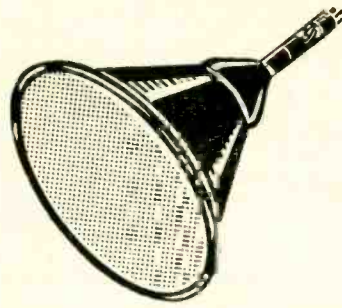
ADDRESS _____

Send samples, pamphlet and prices on other BH Products as follows:

Cotton or Rayon-base Sleeving and Tubing

PARTS

For Cathode Ray Tubes
For Electronic Component
Applications...

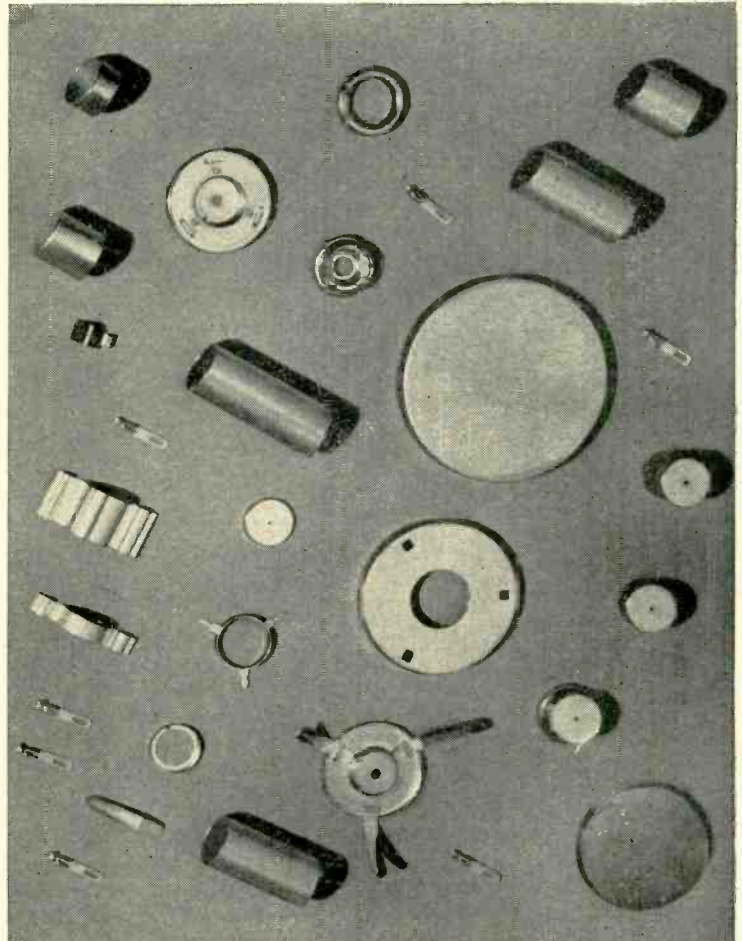


Our TV gun parts are available for quick delivery in a wide range of lengths, angles, and aperture sizes. Designed for both tilted and straight gun application. Parts feature no visible seams, exclusive high polish finish and mass produced to a high standard of quality and uniformity. Samples available on request.

We also specialize in general metal and mica precision stampings for other electronic applications. Our completely equipped tool and die shop in conjunction with high speed automatic production facilities is prepared to undertake your most critical and exacting parts problems from design to completed product.

Consult with J & H on large or small production requirements.

Your inquiries will receive prompt attention.



Illustrated are typical examples of our line of Cathode Ray Tube gun parts and other electronic specialty items currently being produced for leading manufacturers.

CATHODE RAY TUBE PARTS • RECEIVING AND TRANSMITTING TUBE PARTS • DEEP DRAWN STAINLESS STEEL PARTS • METAL STAMPINGS • MICA STAMPINGS • TUBE SOCKET METAL PARTS • TOOLS & DIES • JIGS & FIXTURES • COATED HEATERS.



JOHNSON & HOFFMAN, INC.

65 ONGLEY STREET • ROCKVILLE CENTRE, N.Y.

Telephone: Rockville Centre 6-2526

ELECTRONIC AND MECHANICAL ENGINEERING CONSULTING SERVICE AVAILABLE



FIXED and VARIABLE HIGH VOLTAGE VACUUM CAPACITORS

SPECIFICATIONS

FIGURES	NICKEL TYPES	COPPER TYPES	CAPACITY MMFD	PEAK VOLTAGE KILOVOLTS	RMS AMPERES		OVERALL LENGTH	MAXIMUM O D	CONTACT DIAMETER	MOUNTING CENTERS
					NICKEL	COPPER				
18,12	VC	VCC	6, 12, 25, 50, 75, 100, 150	20, 25, 30	14	42	6 1/2	2 1/4	13/16	5 7/8
18,12	VC	VCC	200, 250	20, 25, 30	14	42	6 1/2	2 1/4	13/16	5 7/8
13	W		6, 12, 25, 50, 100	20	10.5		4 3/16	2 1/4	3/8	3 3/8
14	X		5, 10, 15, 20, 25	17	7		3 1/4	1 1/4	11/32	2 7/8
15	Y		1, 2, 3, 4, 5	17	7		3 1/4	1 1/4	11/32	2 7/8
6		JCS-1	25, 50, 75, 100, 150	7.5, 10, 15		28	3 5/8	2 1/2	55/64	3
5		JCS	250	7.5, 10, 15		42	3 5/8	2 5/8	55/64	3 1/8
4		JCS	500	7.5, 10		42	3 5/8	3 1/8	55/64	3 1/8
		JCS	1000	7.5, 10		42				
		JC-1	25	10, 15		21	4	1 1/2	9/16	3 5/16
7		JC-2	25, 50, 100	15, 20, 25		42	3 3/4	3 1/4	51/64	3 1/8
3		JC-3	20, 40, 50, 60	35, 40, 50, 60		140	8 1/4	4	2	6 5/8
2		JC-4	100, 125	35, 40, 50, 60		140	9 1/4	5	3 1/8	7
1		JC-5	200	35, 40, 50, 60		140	11 1/4	7	4 1/8	8 3/4
9	M	MC	500, 750, 1000	10, 15, 20	21	60	8 3/8	5	2	6 1/4
10	ML	MLC	500, 750, 1000	25, 30	21	60	9 1/4	5	2	7 1/4
9	MH	MHC	200 or less	35, 40, 50	21	60	8 1/2	5	2	6 3/8
8	MM	MMC	1500, 2000	10, 15	21	60	9 1/4	6 1/8	4 1/8	6 3/4
8	MMH	MMHC	450	35, 40, 45	21	60	9 3/8	6 1/8	4 1/8	6 13/16
11	K		50	35, 40, 50	14		8 1/2	3	13/16	7 3/4
21	T		5-25	20	10.5		6 1/4	2 1/4	1/2 x 5/8	4
22		TC	5-25	20		21	6 1/4	2 1/4	5/8	4
21	TR		2-8	17	10.5		6 1/2	2 1/4	11/32 x 5/8	4
22		TRCS	2-8	7.5, 10, 15		21	6 3/16	2 1/4	5/8	4
19	SS		10-30 per section	25, 30, 35	7		6 1/8	3	11/32 x 5/8	3 7/8 x 2 3/4
20		SSC-1	2-10 per section	10		15	6 1/16	2 5/8	9/16 x 5/8	1 1/2 x 3 7/8
21	AT		10-50	20, 25, 30	10.5		6 1/2	3	1/2 x 5/8	4 3/16
28		UCS	5-200	7.5, 10, 15		42	8 9/32	2 5/8	55/64 x 2	4 5/32
28		UCS	10-300	7.5, 10, 15		42	8 3/4	2 5/8	55/64 x 2	4 5/8
28		UCS	25-500	7.5, 10, 15		42	8 3/4	3	55/64 x 2	4 5/8
27		UCSX	10-500	7.5, 10		42	6 3/4	3 3/8	55/64 x 3 1/8	5 3/4
		UCSX	25-700	7.5, 10		42	6 5/8	3 3/4	2 x 3 1/8	4 1/16
		UCSX	100-1000	7.5, 10		42	6 7/8	3 3/4	2 x 3 1/8	4 11/16
26	U	UC	50-250	10, 15, 20	21	60	11 1/16	5	2	6 1/2
26	UH	UHC	10-75	35, 40, 50	21	60	11 1/16	5	2	6 1/2
26	UH	UHC	75-150	35, 40, 50	21	60	12	5	2	7 1/16
25	UX	UXC	40-560	10, 15	21	56	14	5	3 1/8	7 7/8
25	UXH	UXHC	25-150	35, 40, 50	21	60	14 5/8	5	3 1/8	8 1/4
24	VM	VMC	50-1000	10, 15	21	60	14	7	3 1/8	7 7/8
23	VMM	VMMC	100-2000	10, 15	21	85	15 1/4	6 1/8	4 1/8	8 3/8
23	VMMH	VMMHC	25-450	35, 40, 45	21	85	15 3/8	6 1/8	4 1/8	8 1/2
16		TAS-1 50-JR	2-10 per section Air-Cooled Tubes	10		21	7 3/4	2 1/8	9/16 x 5/8	1 1/2 x 3 7/8
17		TW-1 889-A	UXC 40-560 Water-Cooled Tube	5 KW			21	5	3 1/8	7 1/8
Also available in both air- and water-cooled units from 50 watts to 25 kilowatts. Write for details.										
30		R-1	Vacuum Relay	10		30	7	3	5/8	5 1/8
30		R-2	Vacuum Relay	15		7.5	9	3	5/8	7 1/4
29			Vacuum Transformer 2:1 step-up to 40 kv.				5 3/4	2 1/4	11/32	

CURRENT RATINGS MAY BE INCREASED BY FORCED COOLING WITH ADEQUATE MOUNTINGS
CORRESPONDENCE INVITED FOR OTHER CAPACITIES AND VOLTAGES

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Originators, Exclusive Designers and Producers of JENNINGS

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RADIO

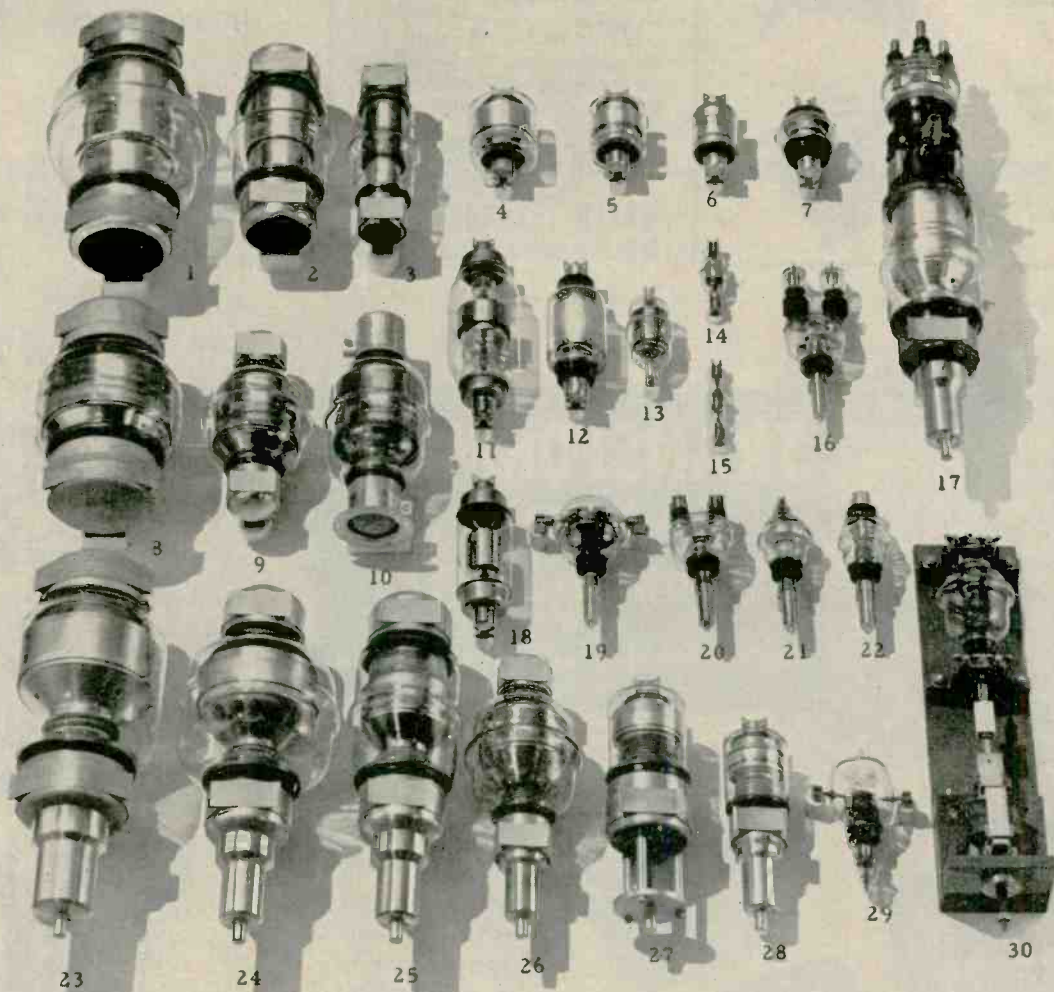
VACUUM ELECTRONIC COMPONENTS

**FIXED AND VARIABLE
HIGH VOLTAGE VACUUM
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Also **TRONADS** in both air- and water-cooled units from 50 watts to 25 kilowatts

Vacuum relay and transformer units

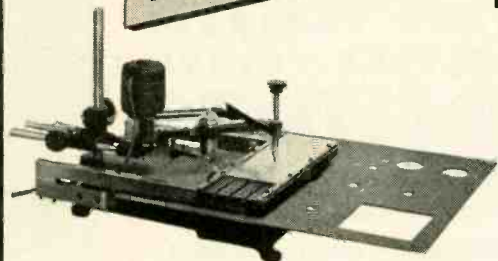
See opposite page for Specifications of the Jennings Fixed and Variable High Voltage Vacuum Capacitors and other items shown below. Watch Jennings for new developments in the field of Specialized Vacuum Electronic Components. Special Characteristics on a to-order basis. We welcome your inquiry and the opportunity to serve you.



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Engraving of BIG Panels

**with the GREEN
 PANEL ENGRAVER**



Here's the answer to high engraving costs on large instrument and control panels! No special jigs and fixtures needed with this new Green Panel Engraver . . . saves time . . . does a neater, more accurate job. The principle difference between this and the standard model is found in the master copy carrier which is supported above the machine base. Panels $\frac{3}{8}$ " thick by 19" wide by any length may be engraved.

Like the famous standard Green Engraver, this new machine does sharp engraving on plastic, metal or wood surfaces by merely tracing master copy. Easily operated by anyone who can write.

If you're fed up with high engraving costs, the Green story makes pleasant reading. So write for details today. Pat. appl'd for

GREEN

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 363A Putnam Ave., Cambridge, Mass.

New accessories cut costs on special jobs

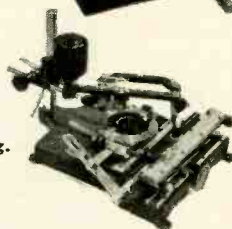
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Rules and engraves in one operation. Adaptable to many diameters . . . simple, precise indexing.



**GREEN
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Engraves in curves from straight line master copy with automatic spacing. No guesswork or inaccuracies . . . no hand layouts. Pat. appl'd for



**REFERENCE SHEET
 SECTION**

A popular feature of **ELECTRONICS** since its first issue has been its Reference Sheets . . . pages that constitute graphical and tabular shortcuts for engineers who design, produce, install and maintain electronic equipment.

21 of these sheets that have proven generally useful over the years are presented again in this book. Many of these have been revised and brought up-to-date. In addition, a complete index of all the engineering Reference Sheets that have appeared in **ELECTRONICS**, since its first issue April 1930, is included in this book.

**electronics
 BUYERS'
 GUIDE**

THE 13th ISSUE OF
ELECTRONICS

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 QUALITY . . .**

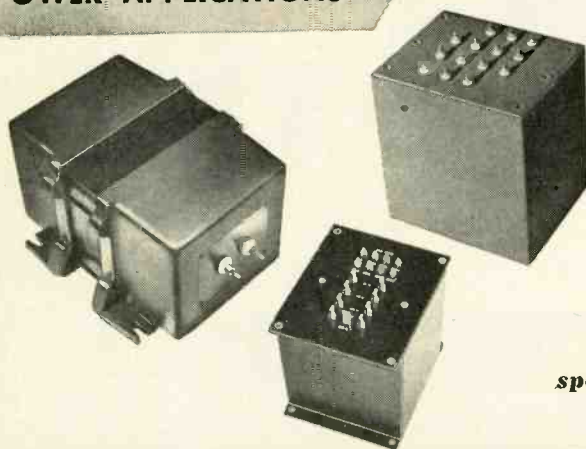
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Top Engineering and Workmanship

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DRIVER-HARRIS

Your
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Wire and Ribbon

Resistor and Radio Alloys

FOR RESISTANCE

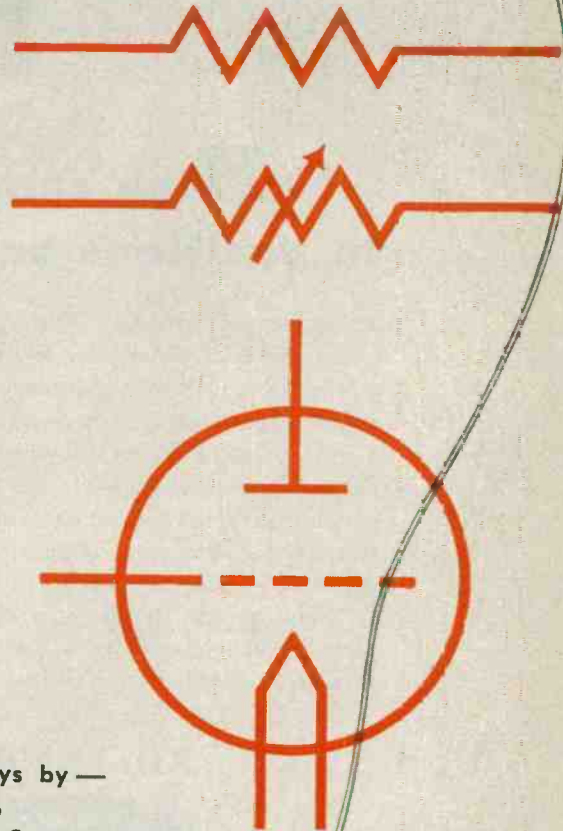
There are Driver-Harris Alloys for every electrical resistance requirement. Most widely used are:

- ... Nichrome* and Nichrome* V, for winding large value resistors where overall size is limited, but dependability is a must.
- ... Manganin, for fixed stability and constant resistance under normally variable operating conditions; examples being precision bobbins, potentiometers, National Bureau of Standards type resistance standards.
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- ... Karma*, high ohmage, 800 ohms/cmft at 20°C ., makes possible extremely small resistors. Especially suitable for service in resistors requiring negligible temperature coefficient of resistance. Thermal e.m.f. against copper only .002 millivolts $^{\circ}\text{C}$. between 0°C . and 100°C . Where mechanical strength is important, larger diameter Karma wire can be used for a given resistance per foot.
- ... Plus a total of more than 80 electrical heat and corrosion-resistant alloys which singly, or in combination fill any electrical resistance specifications.

FOR RADIO

Always abreast of the latest developments in radio metallurgy, Driver-Harris has been headquarters for Radio Alloys since the earliest days of the industry. In greatest demand are:

- ... Nickel and Nichrome*, for plate strip. Thin but rigid, they take a tightly adhering heat radiation coat.
 - ... Gridnic* Alloys, having a very low electron emission — especially suitable in tubes where back-emission is involved.
 - ... Cathode Sleeve Material: special melted Nickel Alloys to meet any emission requirements.
- Other widely accepted D-H Alloys, meeting or exceeding most radio specifications are: Nilvar*, #42 Alloy, #52 Alloy, and Nickel "A", "D", "E", "Z".



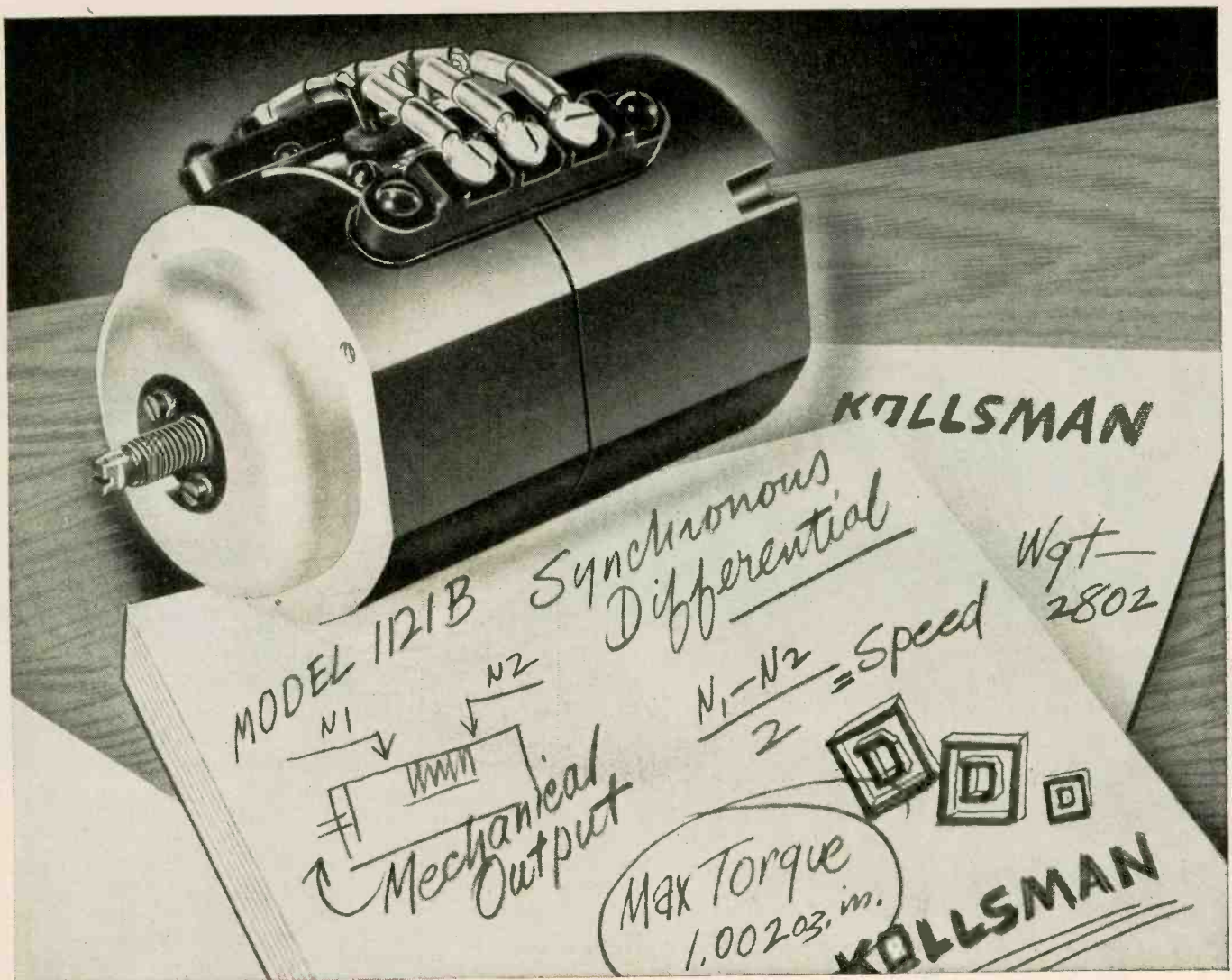
For efficiency and dependability —
Specify Electrical Resistance and Radio Alloys by —

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The B. GREENING WIRE COMPANY, LTD., Hamilton, Ontario, Canada

*Trade Mark Reg. U. S. Pat. Off.



High sensitivity, instant response in position- or speed-control servo systems

The Kollsman Synchronous Differential is an electro-mechanical device, combining two small hysteresis-type, variable frequency synchronous motors with a smoothly functioning system of differential gearing.

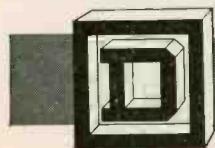
This torque-producing, half-speed synchroscope, designed in various models to operate from single- or polyphase sources, is applicable in many position- and speed-control servo systems wherein a high degree of precision is essential.

The Synchronous Differential represents a complete line of miniature special purpose AC motors precision-engineered by Kollsman, specialists for

over twenty years in aircraft instrumentation and control. The line includes induction motors, and generators, Teletorque units, permanent magnet generators, drag cup motors, Circuitrols and motor-driven induction generators.

Among these, the design engineer may well find the exact solution to his instrumentation or control problem. If not, the skill and experience of Kollsman engineers are available to produce units that meet his exact specifications. For complete information, write: Kollsman Instrument Division, Square D Company, 80-64 45th Avenue, Elmhurst, New York.

KOLLSMAN INSTRUMENT DIVISION



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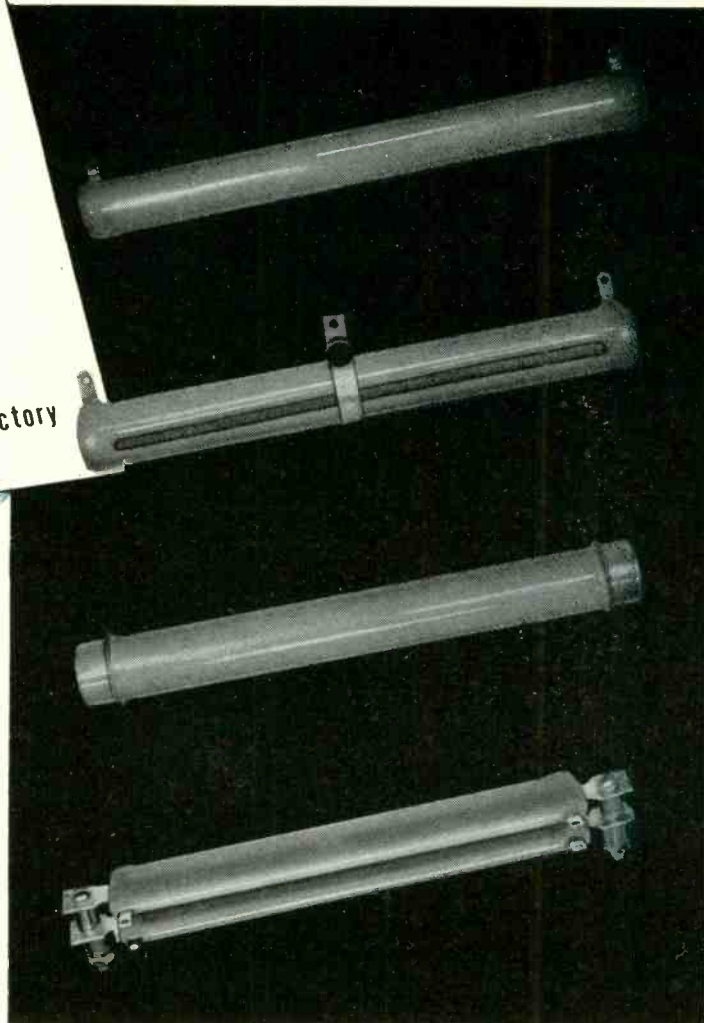
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PROUDLY ANNOUNCES
ITS NEW
**NATIONAL
RESISTORS**

Completely Sealed · Completely Satisfactory



- ✓ the core is stronger, and has higher resistance to vibrations and shock.
- ✓ the resistance wire—made to H.H. specifications especially adapted to these resistors—is more uniformly wound so that failures under stress are eliminated.
- ✓ the special alloy terminals are more securely fastened to the ceramic body by spot-welding—highly resistant to corrosion.
- ✓ all wire connections are protected by a positive, non-corrosive bonding.

and...

- ✓ *new*—blue-gray enamel coating—crazeless, thermo-shock-proof gives greater protection throughout the most rugged service—longer life under extremes of humidity, salt water and severest atmospheric conditions. And by withstanding higher heat these resistors
- ✓ afford a greater safety factor.

The fixed, the ferrule and the flat types are especially designed for and manufactured in accordance with JAN-R-26A specifications.

HARDWICK, HINDLE, INC.

Rheostats and Resistors

Subsidiary of

THE NATIONAL LOCK WASHER COMPANY

ESTABLISHED 1886

NEWARK 5, N. J.

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of quality

for more than a quarter of a century

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Please send additional information about your new resistors.

Name _____

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CHECK THESE *TURBO* PRODUCTS



WILLIAM BRAND & COMPANY maintain an extensive research laboratory where all TURBO products are continuously tested for assurance of "as rated" characteristics. New materials, as they are developed, are subjected to series of accelerated breakdown tests against all known deteriorating agents before such materials are incorporated into TURBO manufacturing processes. WILLIAM BRAND & COMPANY invites users to submit their electrical insulation problems of any nature for study and recommendation.

TURBO VARNISHED TUBING



**For Extra Dependability
At No Extra Cost!**

TURBO Varnished Tubing is a braided cotton sleeve impregnated with a fine insulating varnish. Ideal for general application, it features high tensile strength, good flexibility, non-peeling and non-cracking qualities, low moisture absorption, oil and acid resistance plus moderate cost. Perfect concentricity facilitates wiring and a wide range of sizes meets all applications.

**TURBO
RADIO GRADE**

4000 V.

**BREAKDOWN
A·S·T·M TEST**

**TURBO
MAGNETO GRADE**

7000 V.

**BREAKDOWN
A·S·T·M TEST**

TURBO INSULATED WIRE

**TURBOTHERM
REL 16-A**

- AVAILABLE FOR 300 AND 600 V.
- NON-DETERIORATING VINYL DIELECTRIC
- WITHSTANDS POTTING TEMPERATURES
- NON-POROUS, NON-FRAYING
- FREE STRIPPING INSULATION
- FLEXIBLE

**...now you need stock but one wire for
every hook-up and lead requirement!**

TURBO REL 16-A is a free-stripping insulated wire composed of a tinned copper conductor (for rapid production) covered with a layer of non-deteriorating vinyl plastic (for permanent electrical protection), overlaid with a close-woven lacquered glass jacket (for top mechanical protection). **THIS IS THE FIRST THERMO-PLASTIC WIRE TO EARN UNDERWRITERS' RECOGNITION FOR 105°C CONTINUOUS OPERATION!**

TURBO SATURATED SLEEVING*

*EXCLUSIVELY
PROCESSED FOR

SIZES —
41 sizes from .022" to 1.5" inside dia.

LENGTHS —
Standard bundles of 42" strands. Sizes 13 to 24 inclusive can be supplied in any length on spools.

COLORS —
Black, yellow, red, green, brown, blue. Standard up to size No. 12. Black and yellow on large sizes. Other colors special.

HIGHER TENSILE STRENGTH

GREATER FLEXIBILITY

ABSOLUTE CONCENTRICITY

SLOW BURNING COMPOSITION

LOW MOISTURE ABSORPTION

FREEDOM FROM PEELING

**A low cost insulation tubing impregnated for
maximum serviceability and extra long life!**

TURBO Saturated Sleeving is made from select cotton braided sleeving saturated with a special TURBO varnish that seals every pore without impairing flexibility. This low cost tubing is ideal for general wiring applications, for moderate temperature extremes and where electrical stress does not exceed 1200 V.

TURBO MICA PRODUCTS

**TURBO MICA
A GRADE FOR EVERY
ELECTRICAL
REQUIREMENT!**

MICA comprises a group of natural silicates distinguished by highly developed basal cleavage into thin, tough, flexible laminations. Used as electrical insulation, TURBO MICA POSSESSES IDEAL ELECTRICAL PROPERTIES.

HEATER PLATE MICA—For direct contact with heat, 1000°F—625 VPM. **FLEXIBLE PLATE MICA**—Plastic and moldable, 525 VPM. **SEGMENT PLATE MICA**—Soft edged to wear with commutator bars, 625 VPM. **MOLDING PLATE MICA**—A becomes moldable at 284°F, 600 VPM on flat sheets. **INDIA SEGMENT PLATE**—Similar to segment plate but harder and has higher thermal characteristics. **B-H-1 and 2 PLATE MICA**—A built-up mica plate, high rigidity and temperature resistance (302°F). **BLOCK MICA** to rigid specifications, all standard sizes. **MICA FILMS** for mica condensers.

TURBO CAMBRICS, TAPES, CLOTHS AND PAPERS are treated with multiple coats of baked-on varnishes for excellent protection against voltage breakdown, oils, moisture and alkalis, under the most severe operating conditions. All standard types, sizes, lengths and colors are available.



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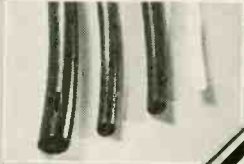
GENERAL OFFICES: WILLIMANTIC, CONN. ● 1313 W. RANDOLPH ST., CHICAGO, ILL.

FOR ALL *INSULATION* NEEDS

The part of the entire cost of an electrical product represented by its insulation is indeed small. However, the insulation is perhaps the most vital non-operating part of the product! For where failures do occur in electrical equipment, over 85% of them are due to faulty insulation! Evidently then, nothing but the finest in insulating materials must be used to assure top-most dependability. This is why most reputable manufacturers insist on BRAND TURBO insulations for their products.



TURBO EXTRUDED TUBING



SPECIFICATIONS

SIZES	36 SIZES FROM .25" TO 1.5" INSIDE DIA.
LENGTHS	CONTINUOUS LENGTHS 25' UP, DEPENDING UPON SIZE OF TUBING
COLORS	BLACK, YELLOW, RED, GREEN, BLUE, BROWN, WHITE AND TRANSPARENT



A HOMOGENEOUS VINYLITE PLASTIC TUBING FORMED ON EXTRUSION PRESSES

Here is one of the finest electrical tubings made. It is ideal for service covering high temperatures or wide fluctuation of temperature. Its homogeneous vinyl covering—forming a deterioration resisting dielectric barrier—is furnished to close tolerances for close fitting insulation. In 36 sizes up to 1.5" ID, continuous lengths and 7 colors plus transparent.

TURBO REL 16-A TUBING

THE NEW TURBO THERMO PLASTIC TUBING



UNDERWRITERS APPROVED FOR
105°C
CONTINUOUS OPERATION

FOR HIGH HEAT APPLICATIONS

REL 16-A is the new TURBO tubing that features—

- EXTREME HEAT RESISTANCE, UL APPROVED FOR 105°C
- LOW MOISTURE ABSORPTION—LESS THAN 1%
- PERMANENT FLEXIBILITY—SMOOTH WALL FINISH
- NON-COMBUSTIBLE FOR POTTING AND SOLDERING
- HIGH DIELECTRIC STRENGTH

An expanded range of wall thicknesses provides a REL 16-A tubing for almost any tough wiring problem.

TURBO GLASS TUBING

AVAILABLE IN FOUR GRADES

SINGLE SATURATED 1200 V. (ASTM)	TRIPLE STRENGTH 3500 V. (ASTM)
DOUBLE DIPPED 2000 V. (ASTM)	MAGNETO GRADE 7000 V. (ASTM)

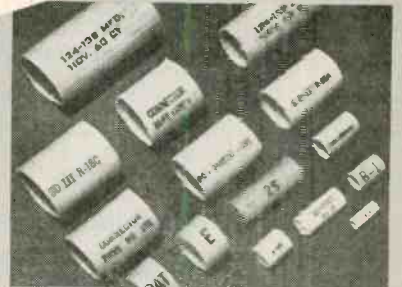


- RESISTS HIGH HEAT, ABRASION — FLEXIBLE, NON-HYGROSCOPIC
- SUPER-IMPREGNATED WITH SUPERIOR INSULATING VARNISH
- MINIMUM POROSITY, HIGH DIELECTRIC STRENGTH
- CLOSE WOVEN FIBROUS GLASS YARN

Here's the *Solution* to HIGH TEMPERATURE PROBLEMS!

TURBO Fibrous Glass Tubing makes full use of the natural insulating property of GLASS—reinforced by the varnished coating to yield a nearly ideal dielectric impervious to moisture and other deteriorating influences. It is excellent where severe heat conditions or high dielectric requirements rule out ordinary insulations—especially where minimum bulk is desirable. Available in 4 grades, 28 diameters, 5 colors, 42" lengths and in continuous coils.

TURBO WIRE MARKERS



- WOVEN FABRIC MARKERS
- EXTRUDED PLASTICS MARKERS
- SLEEVE OR TAB TYPE
- CHOICE OF COLORS

TURBO WIRE MARKERS SPEED ELECTRICAL OPERATIONS!

TURBO Wire Markers are used to identify electrical conductors or, in fact, any tubing, wiring, rod, pipe, hose, cable or connection. Dimensioned to precise limits to insure snug fit, these markers cut assembly costs wherever a multiplicity of electrical operations must be effected with speed and accuracy. Printed legend may be applied longitudinally or circumferentially in any color of ink. The tab type is especially suitable for use on finer wires. Sizes as required.

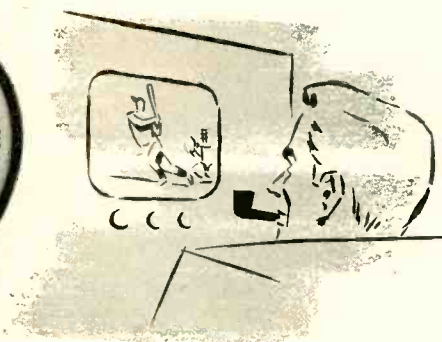
SEND FOR FREE TURBO SAMPLE BOARD! Write on your company letterhead for this valuable insulation selector. Contains actual testing specimens of TURBO Sleeveings and Tubings together with data and recommendations. In various sizes and colors.

WILLIAM BRAND & COMPANY

GENERAL OFFICES: WILLIMANTIC, CONN. • 1313 W. RANDOLPH ST., CHICAGO, ILL.



from crystal set to television



LENZ has served the radio industry!

When the radio industry first appeared on the American scene 25 years or more ago, the Lenz Electric Manufacturing Co. was ready with the facilities required for the production of needed wires.

These facilities have grown with the industry, all through the days of the crystal set, right down to the present boom in Television equipment, Lenz Wires and Cables, have been used in the production of millions of elec-

tronic units of all kinds and their component parts.

Lenz will continue to be a leading source for properly engineered underwriters approved Plastic and Textile Hook-Up, Wires, Cables, Shielded Lead-Ins, and Harnesses for all types of electronic equipment, A.M., F.M., Television and Communications. Consult Lenz, now as always your source for engineered wires and cables designed for the job.

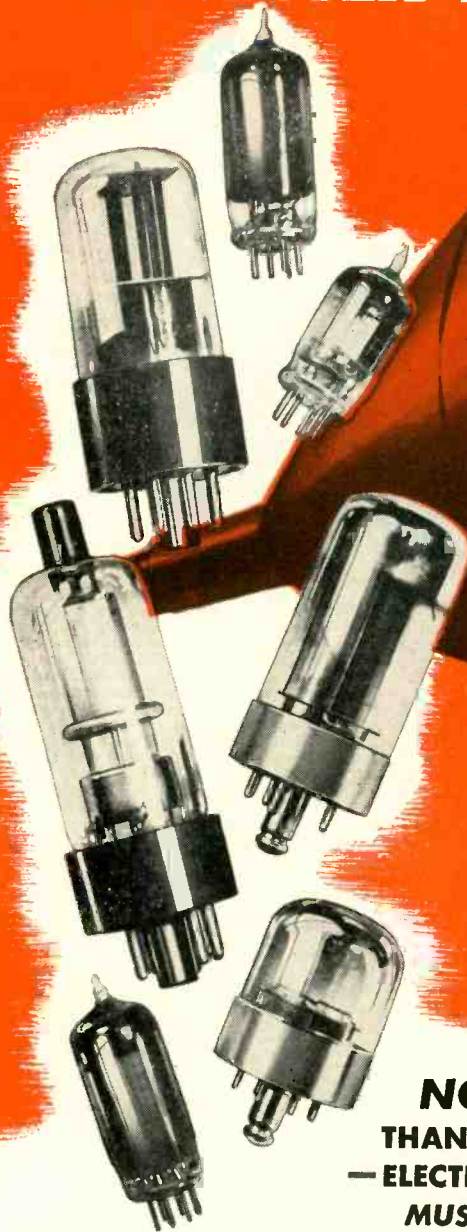


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MANUFACTURING CO.

1751 N. Western Ave.

Chicago 47, Illinois

FOR BETTER TUBE PERFORMANCE



*-definitely
in the
picture!*

FILAMENT BASE METALS

SYLVALOY
MODIFIED HILO
COBANIC
TENSITE
UNIMET

CARBONIZED NICKEL

RADIOCARB
DUOCARB
POLICARB

GRID WIRE

MANGRID

**NOW — MORE
THAN EVER BEFORE
— ELECTRICAL ALLOYS
MUST BE BETTER**

The critical requirements of television circuits demand better tubes with finer electrical alloys — alloys that are superior electrically, chemically and in physical properties. A logical source for metals to meet these new standards is the Wilbur B. Driver Company, largest producer of carbonized nickel ribbon and filament alloys for *more than twenty years*. Inquiries concerning critical tube applications will receive prompt, capable attention. Write today, outlining your requirements — there is no obligation.

WILBUR B. DRIVER CO.

150 RIVERSIDE AVE., NEWARK 4, NEW JERSEY



BRUSH INSTRUMENTS

For Industrial and Laboratory Use



Brush Development Company comprehensive service skill and knowledge Brush is applying to the broad offers you the advantages of an expertly staffed, modern field of electronics is available for the solution of your electronics and electromechanical laboratory. All the particular design problems. Your inquiries are invited.

BL-202 DOUBLE CHANNEL MAGNETIC OSCILLOGRAPH

Complete instrument for use when 2 simultaneous recordings desired—as in synchronizing problems. Heart of oscillograph is magnetic penmotor, reproducing electrical signals in the frequency range from dc to 120 cps. 3 speed paper drive provided adequate for virtually every recording need. A hinged door in the cover permits access to inkwell, pen and chart paper for minor adjustments and notations. Entire cover may be easily removed for reloading chart paper, etc. Also supplied in a single channel model, with one BL-902 penmotor in the same chassis, known as the Model BL-201. Each model is furnished with one 2 oz. bottle of both purple and green charting ink and 6 rolls of chart paper.

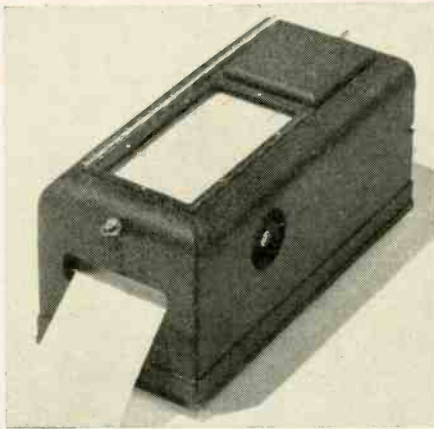


Chart paper... BL-202—3 15/16" W
BL-201—23/8" W 5mm. longitudinal
divisions 1 mm. transverse
Paper speeds... 5, 25 and 125
mm./sec.
Chart Drive Motor... 105-125 v. 50
to 60 cycles, 40 w, synchronous

Net wghts. BL-201—20 lbs. BL-202
—25 lbs.
Shipping wghts. BL-201—23 lbs.
BL-202—28 lbs.
Dimensions... 67/8" H 61/2" W
147/8" L

BL-206 SIX CHANNEL MAGNETIC OSCILLOGRAPH

Consists of six magnetic Penmotors mounted in a line, recording on 12" wide chart paper. On standard units, a paper speed of either 125 mm/second, 100 mm/second, 50 mm/second or 25 mm/second plus 1/5 or 1/10 of this speed can be provided. Other speed combinations available on special units. Chart paper may be torn off or rolled as desired. Has approximate dimensions of 20"x17"x17". Provides excellent recording medium for multiple strain gage recording, vibration analysis, wind tunnel work, etc. Either DC or AC circuits may be measured. Assures uniform frequency response and a linear phase shift with frequency. Furnished with or without AC or DC amplifiers to fit particular applications. Linear frequency response from DC to 100 cps, when used with our amplifiers.

BL-312 UNIVERSAL BRIDGE SWITCH

The Universal Bridge Switch has been developed to extend the range of the BL-320 Universal Amplifier. The Universal Bridge Switch permits the scanning of six channels with a maximum of four gages each through one Universal Amplifier and the BL-202 magnetic Oscillograph. One of the two channels of the Oscillograph is used to record a coded signal indicating the number of the channel being recorded at that particular time, the attenuator setting and the chart speed.

The BL-312 Universal Bridge Switch contains six separate control panels which include an attenuator, resistance balance, capacity balance, line gain control and calibration control. A separate amplifier is included with each bridge circuit for matching purposes. A calibrating resistor is furnished with each channel which matches the SR-4 120 ohm gage but can be changed readily for the calibration of gages with other resistance values. Each of the six strain gage bridges may be individually balanced and calibrated so that no manipulation of the controls is necessary during the actual test except for the channel selector switch.

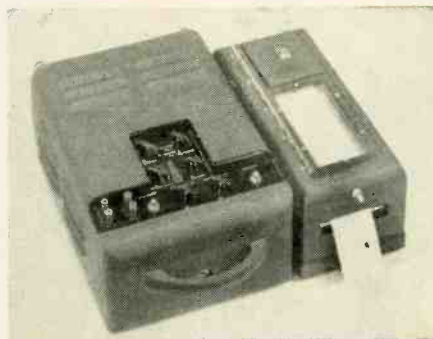
The BL-312 Universal Bridge Switch power requirements are 150 watts, 105 to 125 volts a-c. The case dimensions are 21"x13 1/4"x8". The unit will weigh 39 pounds.

BL-502 TRANSIENT RECORDER. Designed to record and graphically represent varied transient phenomena of 2/10 sec. or less. Transient phenomena capable of being converted into electrical impulses recorded and reproduced automatically. Such transients as vibrations, explosion waves, light flashes, welding cycles, etc. are a few that can be recorded. Reproduction repeats continuously for visual analysis by a cathode ray oscilloscope.

BL-902 MAGNETIC PENMOTOR. High speed direct-wiring element is needed. Highly stable and accurate. Flat frequency response and linear phase shift with frequency permit accurate reproduction of both transient phenomena and steady state signals. Construction permits use under virtually any temperature or climatic conditions.

BL-320 UNIVERSAL AMPLIFIER

When used with Brush Magnetic Direct Inking Oscillograph, is a complete package unit for measurement of strains. Simply operated, producing records which are immediately available and easily interpreted. Records either static or dynamic strains up to 100 cps, and direction as well



as magnitude of the measured strain can be read from the chart. Connections brought out so 1 to 4 active gages may be used. If less than 4 active gages used, dummy gages or precision resistors must be substituted for missing gages to complete bridge network. One of the dummy gages may be used for temperature compensation when one active gage is employed. Provision is made for connecting an internal calibrating resistor in the bridge circuit and adjusting the overall gain. Readily calibrated for individual gages, so that strain can be read directly in microinches per inch from the chart deflection. Can be used to record pressures, temperatures, accelerations, forces, etc., provided the equipment is calibrated in terms of the particular pickup used. The output consists of 3 stages, direct coupled, designed to match characteristics of direct inking oscillograph. This section may be used as general purpose, low gain d-c amplifier with gain and centering controls provided. May be adapted for use with Esterline-Angus or other similar graphic recorders.

Recommended gages... 120 ohm
type (50 to 1000 ohm gages may
be used).
Range of measurable strain... 10
to 40,000 microinches/inch with
one active gage. (Greater sensi-
tivity obtained when more
active gages are employed.
Frequency response (when used
with Brush Direct Inking Oscil-
lograph)... d-c to 100 cps.
Bridge Energizing Frequency
2,000 cps.

Output Impedance... Approx. 50
ohms (Not to be loaded with
less than 1500 ohms)
Power required... 100 to 125 v., 60
cps., 135 w.
Dimensions... 17 1/4 in. l. x 11 in. w.
x 7 1/2 in. h.
Weight... 30 lbs.
Tubes Required... 2—6SF5, 1—6C5,
1—6H6, 1—6SN7, 2—6V6, 2—
VR150, 1—VR105, 1—VR75, 1—
5U4GT.

BL-928 DUAL CHANNEL DC AMPLIFIER



Developed primarily for coupling external circuits to either the BL-202 or BL-202A double channel magnetic Oscillographs, where high gain is not essential. It will give simultaneous graphic records of two electric phenomena of amplitudes of 40 millivolts or more and frequency components between 0 and 100 cycles. Particularly useful in the study of battery characteristics, photocell outputs, electrolysis surveys, and characteristics of dc generators and motors. A useful tool for the

experimenter as a unit for matching special amplifiers to the magnetic Penmotors, as, for example, in electrocardiograph or electroencephalograph work.

The two amplifiers are contained in a single case with carrying handle provided on front panel for ready portability. Control panel located at front of amplifier case contains a "factor of 10" attenuator, gain control and a pen positioning bias control for each amplifier. A dc calibration source is supplied in the form of an accurate standard cell.
Frequency response DC to 100 cps
Sensitivity... .1 chart mm/50 mv
Stability... .025 chart mm pen drift
or less per hour
Voltage gain... .25 times (approx.)
Power Requirements
95 to 125 volts
60 cycles
145 watts
Input impedance... 10 megohms
Output impedance... Approx. 50
ohms must not be loaded with
less than 1500 ohms
Input voltage range... .05 to 200v
Output voltage... 15 v (max RMS)
Dimensions 17 1/4" l x 11" w x 7 1/2" h
Net weight... 30 lbs.
Tubes required
4—6F5, 2—6V6, 4—VR-150



BL-932 D-C AMPLIFIER

Designed for use with Brush Magnetic Direct Inking Oscillograph, also used to make recordings of many types of phenomena heretofore measured only with the aid of complicated intermediate equipment. Studies of static or dynamic conditions, such as strains, displacement, pressures, light intensities, temperatures, d-c and a-c voltages or currents, and many others are simplified by the use of the Brush Direct Inking Oscillograph

with the BL-932 Amplifier. Voltage gain is sufficient to give 1 chart mm deflection per mv input. Novel design features combined with both plate and heater voltage regulation reduce effects of power line fluctuation. Zero signal drift amounts to not more than 1 chart mm per hr. Frequency response essentially uniform from d-c to 100 cycles per sec. Control panel located at front contains a factor of 10 attenuator, gain control, calibrating meter and controls for determining input voltages. Balancing potentiometer provided for electrically biasing oscillograph pen to any position on the chart.

Frequency response... DC to 100 cps
Sensitivity... 1 chart mm/mv
Stability... 1 chart mm pen drift or less per hr.
Voltage gain... 1000 times (Approx.)
Power requirements... 105 to 125 v 60 cycles 125 w

Input Impedance... 10 meg
Input voltage range... .001 to 200 v
Dimensions... 17 1/4" long x 11" wide x 7 1/2" high
Net Wgt... 34 lbs.
Shipping wgt... 38 lbs.
Balancing control... Helipot (10 revolutions)



BL-103 SURFACE ANALYZER

For exploration, and instantaneous charting of surface finishes—metals, glass, plastics, paper, plated and painted surfaces from less than 1 to 3000 microinches. Complete with PA-2 Pickup Arm, Drive Head, Amplifier, Magnetic Oscillograph, Surface Plate, Carrying Cases, Glass Calibration Standard, 2V-Blocks, 6 rolls Chart paper, one 2 oz. bottle Red ink, connecting cords and operating instructions. BRUSH "RMS" METER: "average reading" type calibrated in terms of the "RMS" value of an equivalent sine wave. Provides constant visual check of "RMS" surface roughness where "hill and dale" chart profiles are not needed. Convenient to read because of large illuminated dial. "RMS" Meter may be purchased separately or with Surface Analyzer.

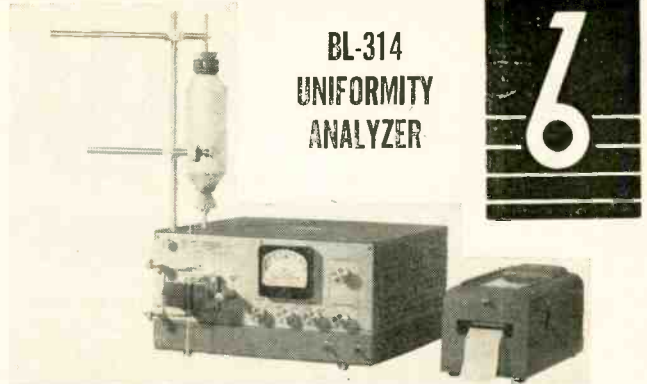
ROUGHNESS RANGE—1/2 to 125 microinches (may be extended)
POWER REQUIREMENTS—105 watts, 105-125 volts, 50-60 cycles
DRIVE HEAD—Model DA-2

STROKE—1/16" reciprocal .0125" per second
Complete Cycle—10 seconds. Height Adjustment—7 inches
PICKUP—Model PA-2
Roughness Range—1/2 to 125 microinches "RMS"
Exploring Stylus—Diamond, .0005" tip radius
Minimum Bore—.250" dia. x .750" depth
Maximum Penetration—4" for dia. 1.125" or greater

CALIBRATING AMPLIFIER
Maximum Voltage Gain—2000 times
Input Voltage Range—.001 to 300 volts
Maximum Output Voltage—22 volts peak. Input Impedance—10 meg-ohms

MAGNETIC OSCILLOGRAPH—Model BL-201
Frequency Response—1/4 to 120 cps with BL-905 amplifier
Chart Speeds—5, 25, 125 mm. per second. Chart Drive—Synchronous Motor

MODEL BL-106 "RMS" METER
Scales—3 and 10 microinch
Frequency Range—1/4 to 120 cps
Circuit—Rectifier type meter reads true "RMS" value of a Sinusoidal input signal.



BL-314 UNIFORMITY ANALYZER



An electronic instrument designed to measure and make a permanent record of irregularities in weight per unit length of yarn, roving, and sliver. As the material to be measured is passed continuously through the measuring head, the cotton count at any given point or the average cotton count is shown on the Cotton Count meter and a running record graph is drawn automatically by the recorder. The instrument is calibrated for cotton but, with only minor changes, may be adapted for wool, nylon, rayon, and various plastics. Since material being tested is not touched during measurement except by the guide eyelets and feed rolls it is not compressed or distorted. Thus, after testing, material may be subjected to further processing or other tests. Record graphs obtained may be evaluated to give a numerical value to the uniformity of the material. This numerical value is independent of the even moisture content of the sample.

Supply voltage... 110-120V AC
Power... 200W
Weight... 90 lbs.
Dimensions... 12" by 15" by 22"
Incorporates automatic voltage regulation.

Range of cotton materials—Measuring slot I... .08 to 1.5 Cotton Count
Slot II... .8 to 15 Cotton Count
Slot III... 8 to 150 Cotton Count
Speed of measurement—2 motor drives supplied:

Drive I... yarn... 5 ft. per sec.
Drive II... roving, sliver... 6 in. per sec.
Recorder Speeds... 5, 25, 125 mm per sec.

Package handling—yarn may be run from cones, cheese, tubes, and bobbins. Roving may be run from bobbins and sliver from cans. Package holders, guides and tension are supplied.



BL-809 REGULATED FREQUENCY POWER SUPPLY

Designed to meet the need of a constant frequency power supply up to 60 watts output that is independent of the primary power frequency. The prime purpose of the unit is to operate fhp synchronous motors at a fixed speed. Comes equipped to furnish a 60 cycle output but other output frequencies may be supplied on special order. The input power requirements are 105 to 125V, 45 to 2000 cycles per second, without adjustment. Attention has been given to the waveform of the output and by means of heavy feedback through a loop including the output transformer, the wave form is substantially sine wave at any output up to full rating. Voltage regulation of 10% permits using the unit with any loading from zero up to full capacity without adjustment. Designed for continuous unattended operation at any load rating from 0 to 60W. Frequency stability of the unit is given by a temperature compensated tuning fork, with specified frequency accuracy of one part in 100,000 and a factory setting to one part in 1,000,000.

Input Power Requirements... 105-125 V. 45-2000 cycles, 165W unloaded, 250 W loaded.
Output... 115V 60 cycles.
40-90 cps tuning forks on special order. Output frequencies up to 1,000 cps may be had by changes in circuit components on special order.
Wave Form... Essentially sine wave within rated load.

Voltage Regulation... 10%.
Frequency Stability... .001% at 25°C.
Temperature Coefficient... 2 parts per million per degree centigrade.
Circuit... Power amplifier driven by tuning fork controlled multivibrator.
Weight... .98 lbs.

The BRUSH DEVELOPMENT CO.

3405 PERKINS AVENUE
CLEVELAND 14, OHIO, U.S.A.

CHATHAM

ELECTRONIC TUBES and EQUIPMENT

Tubes listed on this page can be supplied direct from stock. Many other types are also available for immediate delivery. Write for catalog today. CHATHAM also designs, develops and manufactures special tubes to exact customer specification. Inquiries regarding this service are invited.

CHATHAM 2D21 THYRATRON



A Xenon filled shield grid thyatron for grid controlled rectifier service. Permits use of high resistance in the grid circuit. Heater 6.3 volts, 6 amp. . . . Inverse peak plate voltage 1300 volts, 100 ma. average plate current.

CHATHAM 5594 THYRATRON



Xenon filled thyatron. Operates through ambient temperatures from -55°C to $+90^{\circ}\text{C}$ without auxiliary equipment to maintain bulb temperature. Fil. 2.5 volts, 5.0 amperes . . . Peak inverse 5000 volts; anode current 0.5 amps. average, 2.0 amps. peak.

CHATHAM 884 THYRATRON



An Argon filled thyatron for use as a sweep circuit oscillator in cathode ray tube circuits. Stable oscillator. Heater 6.3 volts, 0.6 amp. . . . Peak forward plate voltage 300 volts, 75 ma. average plate current.

CHATHAM 1B46 REGULATOR



A cold cathode glow discharge tube designed for voltage stability. D.C. operating voltage 82 volts —operating current range 1 to 2 mA dc.

CHATHAM 4B32 RECTIFIER



A rugged half wave Xenon filled rectifier. Operates in any position throughout an ambient temperature range of -75°C to $+90^{\circ}\text{C}$ Fil. 5 volts, 7.5 amp. . . . Inverse peak anode voltage 10,000 volts, 1.25 amp. average anode current.

CHATHAM 866-A RECTIFIER



A rugged half wave Mercury Vapor rectifier to withstand high peak inverse voltages. Heavy duty filament. Fil. 2.5 volts, 5.0 amp. . . . Peak inverse anode voltage 10,000 volts, .25 amp. average anode current.

CHATHAM 1B3GT RECTIFIER



High voltage vacuum rectifier for Television and similar applications. Low filament power permits efficient operation from R.F. supply. Filament 1.25 volts, 200 ma. . . . Inverse peak plate voltage 30,000 volts, 2 ma. average plate current, 17 ma. maximum plate current.

CHATHAM 3B28 RECTIFIER

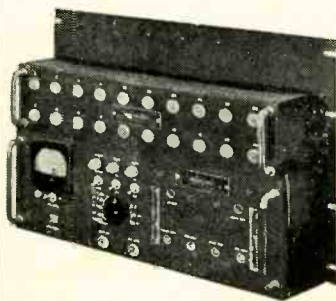


This rugged half wave Xenon filled rectifier will operate in any position and throughout an ambient temperature range of -75°C to $+90^{\circ}\text{C}$ Fil. 2.5 volts, 5.0 amp. . . . Inverse peak anode voltage 10,000 volts, .25 amp. average anode current.

CHATHAM 1Z2 RECTIFIER



A small bulb high voltage vacuum rectifier. Low cathode heating power and low dielectric losses make tube suitable for radio frequency supply circuits. Fil. 1.25 volts, .265 amp. . . . Inverse peak plate voltage 15,000 volts, 2 ma. average plate current, 10 ma. peak plate current.

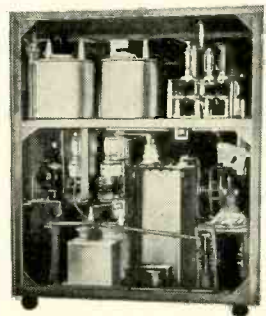


• Pulse life test equipment built by CHATHAM checks receiver type tubes under pulse operating conditions.

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- Sizes—2¾" to 5¼" diameter
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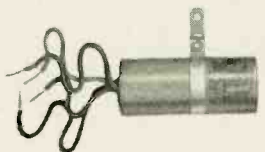


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 <p>Type UMP ILLINOIS TWIST PRONG MOUNTING CONDENSERS</p> <p>Wider range of voltage and capacity types than heretofore possible in units of comparable size. Capacities always plus, low power factor, low leakage. Hermetically sealed. All types. Working voltages 6 to 600 DC.</p>	 <p>Type LN ALUMINUM CAN CONDENSERS</p> <p>(Inverted Screw Mounting) Built to operate under severest conditions. Design permits maximum heat dissipation, higher temperature and voltage surges. All types. Single and dual units 450 to 600 DCWV</p>

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OSCILLATOR • Model 410-A

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- For cathode protection
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- —holdovers
- —pulse integration
- —motor starting
- —or other control functions?



If you are designing circuits requiring a time delay element, or a reliable relay where a short operating interval can be tolerated, it might be to your advantage to consider the Edison 501 Thermal Relay.

Here are 7 good reasons why:

1. **Vibration and shock resistant** — Guaranteed to withstand continuous vibration of 1/16" over-all amplitude at 55 cps., and impact shock of 50 g.
2. **Chatter-proof** — Pre-loaded spring provides 50-gram pressure almost instantaneously, for sure, positive operation.
3. **Non-position sensitive** — Characteristics not affected by mounting angle — operates satisfactorily in any position. Standard intermediate octal base.
4. **Ambient compensated** — Automatically compensated for $\pm 60^\circ$ C. ambient range by extra unheated bimetal. Will operate from -60° C. to $+100^\circ$ C.
5. **Non-arcng** — Sealed-in-glass. Operates in its own arc-suppressing atmosphere. Withstands substantial currents and voltages without arc-pitting.
6. **Explosion-proof** — Hermetically sealed. You can specify it for safe use in corrosive or hazardous fumes and dusts. Tamper-proof, too.
7. **Fungus-resistant** — Available with fungus and salt-spray resistant micanol base.

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Operating Time—5 to 300 sec., in 14 standard intervals, pre-set at factory.	Heater—5 watts, 117 v., 26.5 v., 6.3 v., dc. or ac to 2400 cps.
Contacts—Silver, SPST, normally open.	Size—1.275" max. dia., 3.250" max. seated height (standard T-9 envelope).
Contact Rating—Types 5 sec. to 75 sec., 3 amp. 150 vdc or 250 vac; Types 90 to 300 sec., 3 amp. 450 v. ac/dc.	Weight—1½; to 2½ ounces.

Other than standard types can be made up on special order to meet requirements for other heater voltages, higher currents, etc.

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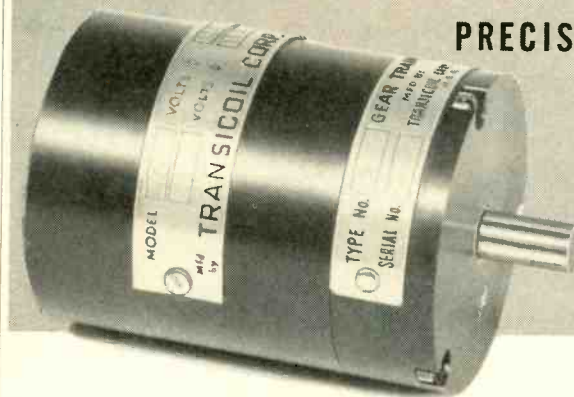


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60-400 cycle, two phase operation. Stall torque range: .15 to 7.5 In. Oz. Most of these are available for plate to plate

operation . . . designed and produced to fulfill the requirements of your particular application. Write for Bulletin M.

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Especially designed for use with Transicoil Units. Through this unique design, Transicoil Gear Trains make it possible to achieve unusual min-

imization and still fulfill your requirements. Gear trains designed to your specifications also available. Write for Bulletin T.

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Designed for operation in electronic equipment in which a variable voltage output must be proportional to a shaft speed having the same frequency as the supply. Output voltage is linear over an extended range. Low residual

voltage, as a function of the design, enhances the performance of associated components. Induction generators also furnished with motor gear trains as a complete assembly when desired. Write for Bulletin G.

SERVO AMPLIFIERS

Engineered for use with plate to plate control motors, provide all the circuitry needed in the error signal path. Two types available: one for circuit checking, another for pro-

duction. You specify phase voltage, gain, reduction rate, phase shift, etc. We confine standardization to physical dimensions only. Write for Bulletin A.

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The policy of Transicoil has always been never to restrict your design possibilities. We ask you to cite the requirements of the unit you want, and we'll build a unit to meet those requirements. Thus, you have a complete factory at

your service, ready to produce the precision components you need, very much like a division of your own company—only at a cost and with experience better than you can probably realize in your own plant.

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means the most
in meters



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New

MARION RUGGEDIZED METERS HERMETICALLY SEALED

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Standard 1½", 2½" Mr 26 Series, 3½" Mr 36 Series, and 4½" sizes. Extremely accurate and sensitive in any application, even under critical conditions of Shock, Vibration, Mechanical Stress, Strain, Weather Conditions and Climate. Gives faster response time, more sustained accuracy, lower bearing friction and longer life. Meet dimensional requirements of JAN-I-6. Completely interchangeable with standard 2½" and 3½" types.



Series HM

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Magnetically shielded. 2½" & 3½". Hermetically Sealed. Unaffected by heat, cold, humidity, giving peak performance with critical accuracy. Interchangeable round and square colored flanges for different panel needs. One year unconditional guarantee on materials and workmanship. Extra guarantee for replacement of burned out or abused hermetically sealed meter. (On flat fee basis, \$1.50 for 200 microamps upward; \$2.50 if more sensitive than 200 microamps.)

Large, 4⅝" × 4⅞". Gives critical readability on 100° scale. Alnico V magnets for sensitive range; heavy Alnico for standard ranges. Extreme accuracy assured. Designed for permanent and portable test equipment.

Marion Null Indicators are extremely sensitive shaded pole piece D'Arsonval type galvanometers. They are used primarily as bridge and potentiometer balance indicators and in any application where an instrument with very high sensitivity about the zero or balance point is desired. We particularly recommend Types HM2 and HM3 because they are hermetically sealed instruments which completely shield the galvanometers from the effects of moisture and dirt, and external factors. Ideal for use in discriminator alignment of FM receivers and as general laboratory balance indicators.

Space saver, yet has superior damping characteristics. Available in standard 2½" square (Model 52S). Dependable, extra strong — has well-aged Alnico magnet and heavy flanged construction. Popular for pocket test, portable radio, medical equipment and general electrical service where size and dependability count.



HM 2 HM 3



Model 55



Null Indicators



Model 52N



Model 56



Model 57S



Model 53SN

New 6½" × 5¼" bakelite cased meter. Easy reading at a distance. Large open face has 100° scale in 5½" arc. Room for multirange scale if needed. Milliamp ranges are Alnico II constructed, Alnico V for microamps. Strong, accurate, efficient, dependable.

Superb milliammeter — more than a mere overgrown 3 inch. 8½" × 7", open face, extra long scale. Enlarged pole shoes — higher torque movement — higher damping factor. Accurate within 1%. Used in large vacuum tube voltmeters, multitesters and production testing.

Standard commercial 3½" rectangular type. Also available in 3½" JAN Spec., round case. All Alnico construction. Excellent scale distribution characteristics. Ideal for portable test equipment and general electronic equipment application.

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In addition to manufacturing the finest standard electrical indicating instruments money can buy, Marion will design, engineer and manufacture precision products to meet your most exacting requirements. Let Us quote on your specifications. Write the Marion Electrical Instrument Company, 402 Canal Street, Manchester, New Hampshire.

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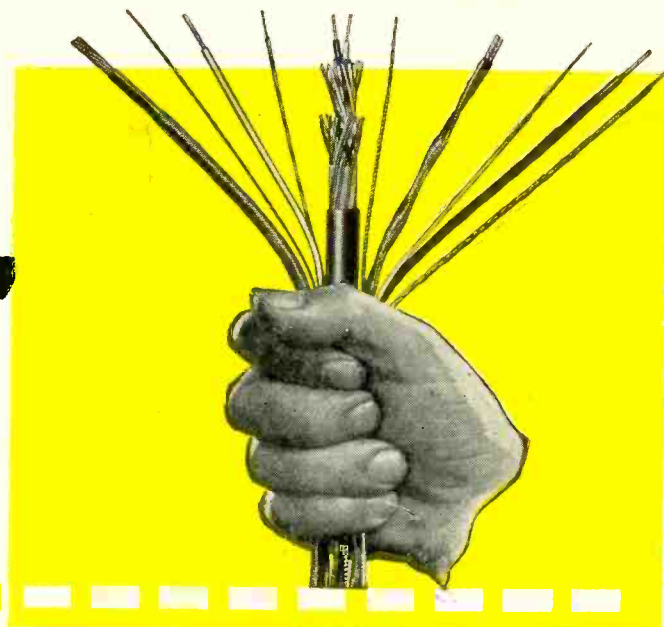
marion meters

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More and more electronic equipment and appliance manufacturers are looking to Rome Cable for their wiring requirements. In Rome Cable they have found dependable and courteous service, plus quality of product, backed by unexcelled research and manufacturing facilities. Based upon experience you, too, can look to Rome Cable with confidence. If you have a special application problem, why not let a Rome Cable engineer solve it for you? We will welcome the opportunity.

Rome Synthinol and Rome Hi-Temp

Exceptionally dependable hook-up or small appliance wires are made with Rome Synthinol* thermoplastic insulation. Being a polyvinyl chloride compound, Rome Synthinol is impervious to oils, acids, alkalis, moisture and flame. Regular Rome Synthinol conforms to all requirements of Underwriters' Laboratories for 300 and 600 volt ratings and is approved for 80° C. operation.

A new Rome Cable development is Rome Synthinol No. 901, a resin plasticized polyvinyl chloride compound. Wires insulated with this compound are Underwriters' approved for temperatures up to 90° C., for 300 and 600 volt services, and possess outstanding advantages as follows:

- Much greater resistance to heat deformation.
- Heat aging properties which enable continuous operation at 90° C.

- High suitability for coil lead applications where baking cycles often produce brittleness, shrinkage and cracking of more conventional compounds.
- Improved solderability with minimum tendency of insulation flare or shrinkage.
- Improved resistance to oils and chemical solvents.

Rome Hi-Temp hook-up and appliance wires are rubber insulated and possess high resistance to heat and moisture. They are approved by Underwriters' Laboratories for 75° C. appliance lead wire use at 300 and 600 volt ratings.

Both Rome Synthinol and Rome Hi-Temp are available in a wide range of colors, either plain or braided, with protective coverings of nylon or lacquer.

Rome Special Electronic Wires and Cables

Abetted by increasingly wider use of such thermoplastic materials as polyvinyl chloride, polyethylene and nylon, Rome Cable has introduced a number of special constructions having application in radio, television and other electronically operated devices.

MILITARY TYPES

A wide range of Army-Navy approved electronic wires, conforming in every respect to joint military specifications, are manufactured. Types for which Rome Cable has specific approval are as follows:

SPECIFICATION JAN-C-76
Types SRIR, SRHV and WL

SPECIFICATION MIL-C-915
Types SRI and SRIB

OTHER TYPES

In addition, a variety of wires and cables for electronic use are available as listed below:

- TELEVISION CAMERA CABLE
- MICROPHONE CABLES
- INTERCOMMUNICATION CABLES
- RADIO FREQUENCY TRANSMISSION LINE
- SUPERVISORY CONTROL CABLES
- FLEXIBLE CORDS

*T. M. Reg.

*It costs less to buy the best
... buy Rome Cable*





NORTHERN RADIO COMPANY

A COMPLETE LINE OF HIGH QUALITY COMMUNICATIONS EQUIPMENT

Radio Multiplex Systems
Multi Channel Tone Systems
Diversity Receivers
Standard Frequency Shift Keyers

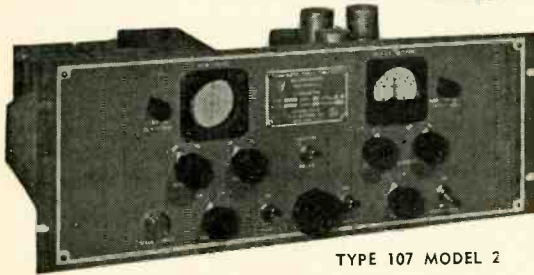
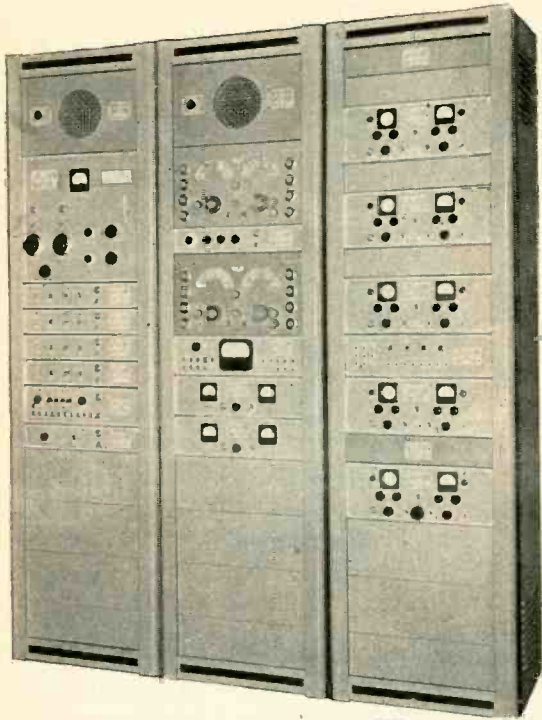
Low Frequency Shift Keyers
Frequency Shift Converters
Tone Filters
Tone Keyers

Demodulators
Line Amplifiers
Master Oscillators
Monitors

RADIO MULTIPLEX SYSTEM

Multi-Channel Equipment for Standard Communications Frequencies. Adapts existing transmitting and receiving facilities for radio multiplex.

The system illustrated is a four-channel unit, used for transmitting and receiving radio tele-printer, telegraph or other similar low speed keying intelligence, where a limited assigned carrier band-width may be utilized. The two bays at the right are the complete receiving units; left, the transmitter terminal and exciter facilities. The system may be adjusted for band widths of 3 to 12 kc and is intended to take advantage of periods of time where propagation conditions give signals which are better than the minimum required for one channel of normal frequency shift operation. Simple operation of key switches will insert as many channels as the conditions permit. These switches automatically maintain the pre-set bandwidth regardless of the number of channels in use. The system also provides front panel switching to standard 850 cycle frequency shift operation. However, experience indicates that when propagation conditions permit frequency shift operation, they will usually allow at least two channels of multiplex.



TYPE 107 MODEL 2

FREQUENCY SHIFT CONVERTER

A dual channel unit, used with frequency shift receiving systems to convert the mark and space tones from the output of single or diversity receivers, into DC pulses capable of operating a tele-printer, tape recorder or other device so operated. Also used as a demodulator when receiving make and break CW or ICW signals.

2" oscilloscope tuning pattern indicates proper receiver adjustment of both mark and space frequencies, either during initial setup or under actual keying conditions. This pattern and a specially designed discriminator, coupled with a high degree of limiting, make it the outstanding performer in its field.

INPUT FS LIMITS 100 to 1000 cps. frequency shift. Mark frequency set at 2975 cps.

CW-ICW INPUT ... 400 to 7500 cps.

KEYING SPEED ... Up to 600 w.p.m.

- OUTPUT: 1. Neutral DC pulses. 60 ma in 1800 ohm external load. One side grounded.
2. Polar DC pulses \pm 30 ma in 1800 ohms load. Center grounded.
3. May be operated into any impedance from 100 to 100,000 ohms.

VARIABLE MASTER OSCILLATOR

Principally used in diversity reception to supply local common oscillator injection voltage to receivers. Crystal oscillator for BFO. The Variable High Frequency section gives stability equivalent to that of non-temperature controlled crystal oscillators. It is also equipped with three crystal controlled frequencies for operation of receivers on a fixed frequency basis. The variable high frequency oscillator is provided with local crystal oscillator for spot checking of twenty points within its range.

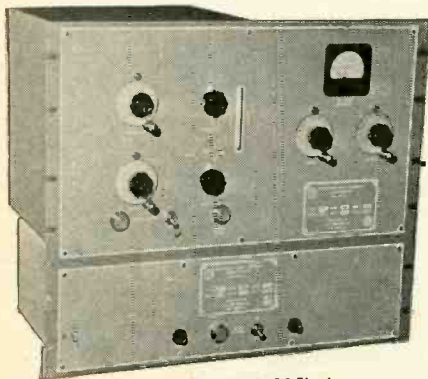


TYPE 115 MODEL 11

TECHNICAL DATA

Variable HFO output frequency	... 2-32 mcs continuous
Fixed Frequency crystals	... 2-4 mcs for output frequencies of 2-32 mcs
Output impedance	... 72 ohm coaxial cable
Output level	... 2 watts 2-4 mcs; 0.5 watts 4-32 mcs
Variable HFO Stability	... 20 cps per mc for ambient change of $\pm 25^\circ$ C. 5 cps per mc for $\pm 10\%$ Line Voltage 20 cps per mc for resetability 20 cps per mc for readability

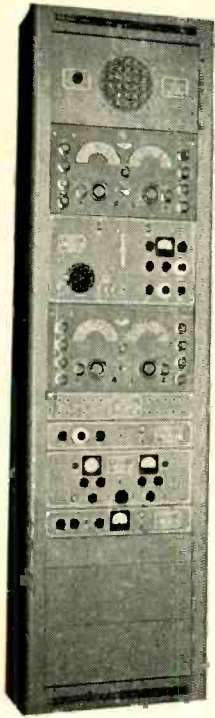
This unit can also be used as a transmitter exciter or for laboratory measuring purposes.



TYPE 105 MODEL 4

FREQUENCY SHIFT KEYER incorporates the following outstanding features:

1. Frequency shift dial adjusts "mark" and "space" frequencies equally above and below the carrier position, which remains fixed.
2. Simplified frequency setting permits only the upper side band tuning indication to be visible on the meter over substantially all of tuning range.
3. Direct reading frequency calibration of shift from 0 to 1000 cycles.
4. Direct reading frequency calibration of mixer and output tuning dials from 2.5 to 6.7 mc.
5. Direct reading of calibration of output frequency vernier \pm 600 cycles.
6. Pulse shaping circuit to permit operation within assigned bandwidth with no adjacent channel radiation.
7. Highly stable temperature controlled oven with temperature control of $\pm 0.1^\circ$ C. at 60° with heaters on 4 sides of inner oven.
8. Component ratings according to JAN Specs provide greater assurance of trouble-free operation.

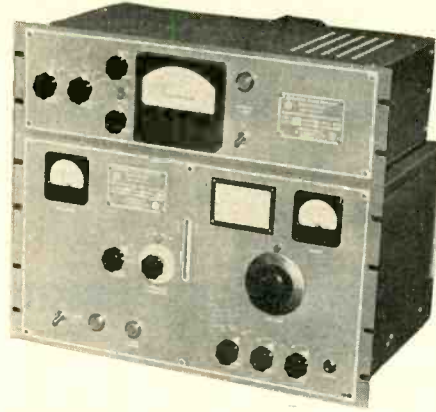


MODEL 2 TYPE 110

DUAL DIVERSITY RECEIVER

Used for dual spaced diversity reception in high speed radio tele-printer, telegraph or telephone service, using any common modulation, such as FS, CW, ICW, phone, etc. Complete receiver is housed in a rack type, fully enclosed cabinet. Provided with specially modified receivers, monitor speaker, IF monitor, master crystal oscillator, and the necessary patching arrangements. Can be supplied with any combination of terminal equipment for reception of radio tele-printer, undulator tape and program service, or for remote use where the intelligence is transmitted via landline or UHF link.

Receiver is shown with terminal equipment as recommended for general communications usage. The units are (top to bottom) Monitor speaker, Receiver #1, variable Master Oscillator, Receiver #2, Patching Panel, IF Monitor, Converter, Tone Keyer, Blank panels. For special features of this receiver see individual units described on this and the preceding page.



FREQUENCY AND SHIFT MONITOR SYSTEM

This system consists of a Type 106 Frequency and Shift Monitor and a Type 127 Frequency Meter. The system is designed as a secondary standard to

monitor the frequency and amount of shift of transmitter carrier outputs. It is particularly intended to measure the frequency shift of a mark and space (F.S.) signal either when setting up for traffic or under normal keying conditions. The Monitor unit consists of a highly stable temperature controlled crystal oscillator with provision for selecting any one of eight crystals, a harmonic generator, a detector and an audio amplifier. The audio output frequency is read on external audio frequency meter, Type 127.

FREQUENCY RANGE	2.5 to 30 mcs
FREQUENCY SHIFT RANGE	30 to 15,000 cps
RF INPUT LEVEL	100 millivolts min.
OVEN TEMPERATURE	60° ± 0.1° C.

TONE CHANNELING SYSTEMS

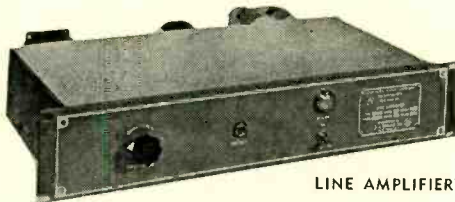
With the advent of continually growing demands for tone channelizing equipment, a number of systems and basic units have been added to our standard line in order to meet the many and varied customer requirements in this field. These systems are available from 1 to 18 channels as stock units using standard tone frequencies of 255, 425, 595, 765, 935, 1105, 1275, 1445, 1615, 1785, 1955, 2125, 2295, 2465, 2635, 2805, 2975 and 3145 cycles. Units can be furnished in either 340 or 170 cycle separation groups, depending on number of channels and keying speeds required. They are available as either amplitude on-off, or frequency shifted tone systems. Complete details on any specific requirements are available on request.

Illustrated here is a representative group of these units, most of which are of compact construction, permitting installation of many channels per rack.

These units each contain their own power supplies, allowing complete flexibility in selection of channels and systems. This feature also keeps initial costs of small installations at a relatively low level compared with systems using large common power supplies.

Units can be furnished to function with any common input source such as contact, polar contact, ± DC voltage pulses, ± DC current pulses, polar DC voltage or current, tone pulses, etc. Outputs are available for direct teleprinter operation using DC polar or neutral pulses or, when desired, relay or other output can be provided.

These systems are equally applicable to land line or radio link systems. Complete package systems can be prepared to meet any specific or special requirement.



LINE AMPLIFIER



TONE FILTER



TONE KEYS



TONE MODULATOR

COMPLETE CATALOG OR SPECIFICATION SHEETS ON REQUEST

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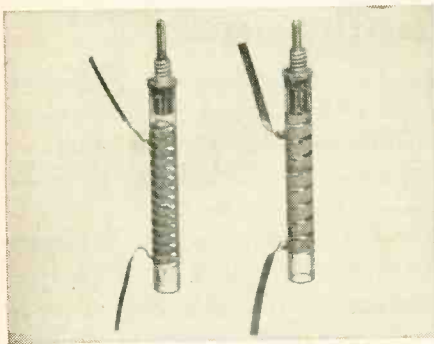
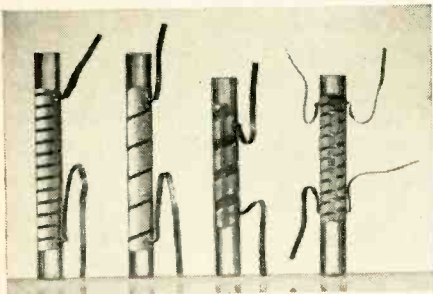
CORNING GLASS WORKS

Electronic Sales Department — Electrical Products Division

CORNING, N. Y.

METALLIZED GLASS INDUCTANCES, CAPACITORS, BUSHINGS — TELEVISION TUBE BLANKS

CORNING HIGH FREQUENCY INDUCTANCES



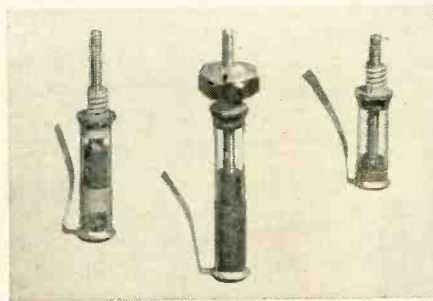
Designed to meet the need for high quality, economical inductances for F. M. and Television tuning applications, Corning Metallized Glass Inductances will satisfy your most stringent requirements. They have high temperature stability and low loss, and contribute negligible drift characteristics even under unusual temperature changes.

Corning Inductances can readily be supplied to accurately meet individual specifications in uniform, variable or double pitch windings. They are available as fixed tuned, permeability tuned or permeability tuned inductance-trimmer combinations. Corning Inductances of a given type can be duplicated within very close tolerances in any quantity.

Easily installed by conventional soldering or grommet mounting, these inductances can be supplied solder-spotted or with leads as desired. Rugged and durable, they stand repeated handling. Corning Inductances meet today's top quality requirements at the lowest possible cost, as in many in-

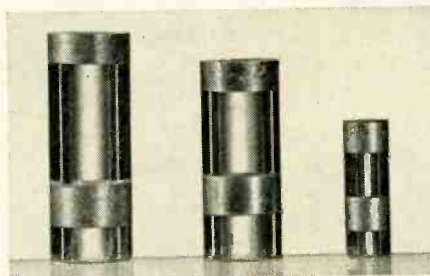
stances the use of these stable inductances eliminates the need of including additional stabilizing components in the circuit.

CORNING MIDGET TRIMMER CAPACITORS



Corning Metallized Midget Trimmer Capacitors are especially suitable for high frequency work where co-axial trimmers are desirable. Small in size, they save important space. The near zero temperature coefficient insures stability under wide temperature changes. A 4/40 thread makes fine adjustments possible. Corning Midget Trimmer Capacitors are designed to fit your requirements for a stable trimmer capacitor of small size.

CORNING HERMETICALLY SEALED BUSHINGS



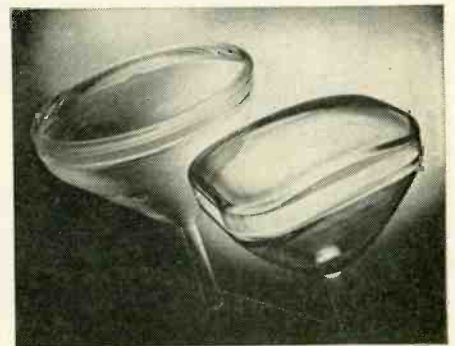
Corning Metallized Glass Bushings provide high quality hermetically sealed terminals for high voltage transformer and capacitor applications. Reliable and accurate, they are moisture and dust-free. Ease of installation reduces production costs. Although a complete standard line is available,

special designs can be made to individual requirements.

STANDARD SIZES

O. D. and Length	O. D. and Length
$\frac{5}{16}$ " x $\frac{25}{32}$ "	$\frac{1}{2}$ " x $1\frac{19}{32}$ "
$\frac{5}{16}$ " x $1\frac{3}{32}$ "	$\frac{3}{4}$ " x $1\frac{25}{32}$ "
$\frac{3}{8}$ " x $\frac{25}{32}$ "	$\frac{3}{4}$ " x $2\frac{9}{32}$ "
$\frac{3}{8}$ " x $1\frac{3}{32}$ "	$\frac{3}{4}$ " x $3\frac{1}{32}$ "
$\frac{1}{2}$ " x $1\frac{1}{32}$ "	1" x $3\frac{7}{32}$ "
$\frac{1}{2}$ " x $1\frac{11}{32}$ "	1" x $4\frac{7}{32}$ "

CORNING TELEVISION TUBE BLANKS



Corning Television Tube Blanks are made of strong, lightweight, lead-free glass with electrical properties ideal for television reception. They are produced automatically to uniformly close tolerances in both round and rectangular design. One-piece construction of neck and funnel provides additional strength. This also improves alignment, eliminating neck shadow and interference with yoke assembly. Large face plates are electrically sealed to prevent distortion, boiling or unsightly variations and again increase overall strength. Round T. V. bulbs— $8\frac{1}{2}$ ", 10", $12\frac{1}{2}$ ", 16" and 19" in diameter; rectangular 14", 16" and 20" diagonal.

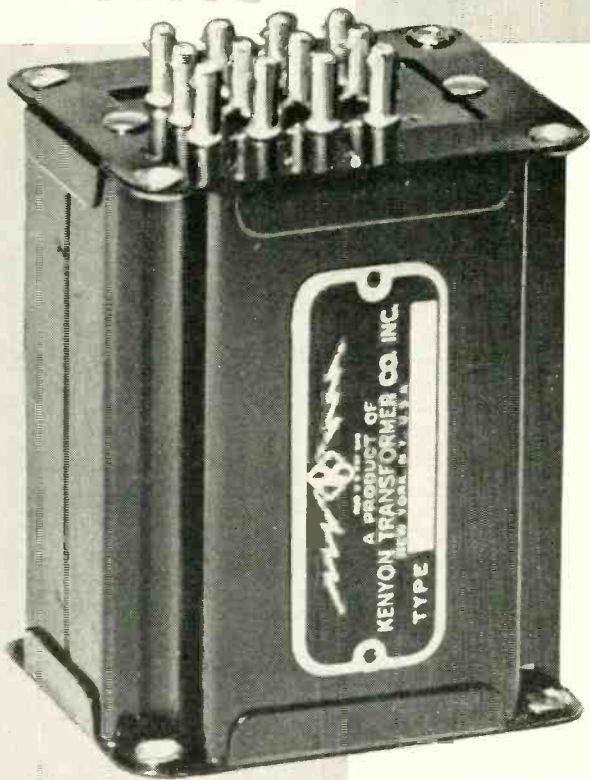
TECHNICAL SERVICES

Specialists in glass working, quality control, product engineering or design are available to tube and set manufacturers on glass problems.

25
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Carbonyl Iron Powder is an extremely pure form of iron, the metal content being over 99.99% iron, produced in the form of almost perfect spheres only one to fifteen microns in diameter—the average diameter being 8 microns (.00032 inches). It has been produced commercially for some years, primarily for use in magnetic cores for electronic equipment. Its production is therefore now under perfect control to give absolute reliability in quality and properties.

The production of Iron Carbonyl, from which Carbonyl Iron Powders are made, depends on a unique reaction, which was discovered in 1890 by the distinguished British chemist, Sir Ludwig Mond. When iron is treated with carbon monoxide it reacts to form iron pentacarbonyl, a rare case of a liquid compound of a metal. Each atom of iron combines with five molecules of carbon monoxide to give a compound with the formula $Fe(CO)_5$. This reaction leaves behind any impurities in the original iron.

This liquid is vaporized and the vapor heated above $200^{\circ}C$, when it decomposes into its constituents. The carbon monoxide is driven off and the iron separates from the vapor phase, first in the form of free atoms, then as ultramicroscopic crystals, finally as microscopic, almost perfect spheres. The particle size distribution can be controlled by temperature, pressure and other operating conditions.

Controlled purity and distribution of particle size is essential for use of the powder in electronics, where minor

variations in these properties have exaggerated consequences in delicate electrical and magnetic effects.

The only other elements present are non-metals such as carbon, oxygen and nitrogen. In G A & F Carbonyl Iron

Powder, they amount to not more than 0.8% carbon, 0.9% oxygen and 0.7% nitrogen.

The first large-scale production of Iron Carbonyl was undertaken in Germany shortly after 1920. By 1928 the process had been adapted to the continuous commercial production of Carbonyl Iron Powder. Subsequently, detailed studies and meticulous laboratory-type controls in the plant permitted accurate regulation of purity and particle size for the needs of the modern electronic industry.

The first commercial Carbonyl Iron plant in the United States was opened at Grasselli, N. J., in 1941 by the General Aniline & Film Corporation, primarily to meet the large wartime demand for electronic equipment. Newer and finer grades of the powder were developed for use in high-frequency electronic equipment for radar and television. Later a second plant was put into operation at Huntsville, Alabama.

Thus the G A & F Carbonyl Iron Process is now well established and in steady operation. It is an outstanding case of the successful precision control of a sensitive chemical reaction to produce a unique material that must meet extraordinary specifications of purity, particle shape and size, and uniformity.

Write today for a free book—fully illustrated with performance charts and application data. It will help radio engineers or electronics manufacturers to step up quality, while saving real money. Kindly address your request to Dept. #24.

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 - Dummy Load Resistors Thermistor Bridges
 - Station Guardian for Transmitter Protection
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 of this Issue
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*Featuring continuously variable
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Here are four power supplies especially designed to cover a wide range of applications in development and production. These instruments feature continuously variable output voltage, good regulation, low hum level, good stability and overload protection. Models 200-B, 204-A, 205-A and 207-B will operate from line input of 105 to 125 volts A.C. 50-60 cycles and provide rated regulation within this change. Examine the specifications carefully and you may find that one or more of these units has an application in your research or production program.



MODEL 204-A

0-500v D. C. at 300 MA.

Output Voltage:
0-500v D.C. at 300 Ma. regulated
6.3v A.C. at 6 Amps. unregulated
Regulation: Within 1% from 30-500 v
Hum: Within 10 millivolts at full load
Meters: 0-500v D.C.
0-300 Ma. D.C.
Negative or positive side of
high voltage output may
be grounded.

MODEL 207-B

200-1000v D. C. at 500 MA.

Output Voltage:
200-1000v D.C. at 500 Ma. regulated
Regulation: Within 1% from 200-1000
Volts
Hum: Within 20 millivolts at full load
Meters: 0-1000v D.C.
0-500 Ma. D.C.
Negative side of high voltage
grounded.

MODEL 205-A

100-325v D. C. at 150 MA.

Output Voltage:
100-325v D.C. at 150 Ma. regulated
0-150v D.C. at 5 Ma. regulated by VR tube
6.3v A.C. at 6 Amps. unregulated
Regulation: Within 1% from 100-325v D.C.
Hum: Within 10 millivolts at full load
Meters: None
Negative or positive side of high voltage
output may be grounded.

MODEL 200-B

0-325v D. C. at 125 MA.

Output Voltage:
0-325v D.C. at 125 Ma. regulated
6.3v A.C. at 6 Amps. unregulated
Regulation: Within 1% from 20-325 V
Hum: Within 10 millivolts at full load
Meters: 0-500v D.C.
0-150 Ma. D.C.
Negative side of high voltage grounded.



Detailed information on any or all of the instruments
above will be sent upon request. Price and delivery
information will also be forwarded at the time of your
request. Send for Catalog "A"—there is no obligation.

ELECTRONIC MEASUREMENTS COMPANY

Red Bank



New Jersey

REGULATED POWER SUPPLIES — VACUUM TUBE VOLTMETERS — SIGNAL GENERATORS



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AC REGULATORS

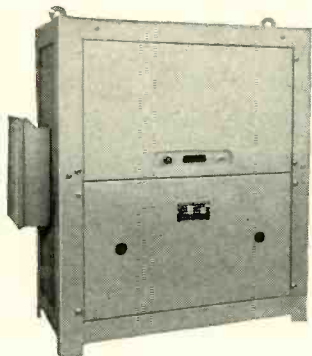
GENERAL APPLICATION

Model NOS. 150S 250S 500S
Load-Range (VA) 0-150 0-250 0-500



MEDIUM CAPACITY

Model NOS. 1000S 2000S 3000S
Load-Range (VA) 0-1000 0-2000 0-3000



HEAVY DUTY UNITS

Model NOS. 5000S 10000S 15000S
Load-Range [VA] 0-5000 0-10000 0-15000

STANDARD AC SPECIFICATIONS

MODEL IN VA CAPACITY	150S 500S	250S 1000S	2,000S 3,000S	5,000S 10,000S 15,000S
Harmonic Distortion	3% max.	2% max.	3% max.	3% max.
Regulation Accuracy	±0.1% against line or load			
Input Voltage	95-130 VAC; also available for 190-260 VAC Single Phase 50-60 cycles			
Output Voltage	Adjustable between 110-120; 220-240 in 230 VAC models.			
Load Range	0 to full load			
P. F. Range	Down to 0.7 P. F. All models temperature compensated.			

NOTE: REGULATORS CAN BE HERMETICALLY SEALED

SORENSEN ELECTRONIC VOLTAGE REGULATORS are designed to meet the need for rugged, economical, low-maintenance-cost units. There is no need to buy extras — no need to buy more than you require when you purchase a SORENSEN regulator. Depend on SORENSEN — the FIRST line of STANDARD electronic voltage regulators.

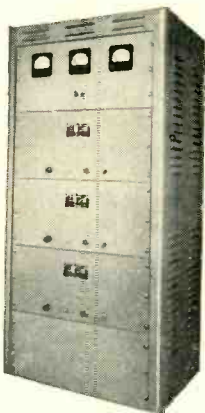


400 CYCLE LINE

Model NOS. D 100, D 500, D 1200, D 2000
Load-Range (VA) 0-100, 0-500, 0-1200, 0-2000

Accuracy ± 0.5% against line and load.
Maximum distortion 5%

Frequency Range 400 cycles ± 10%



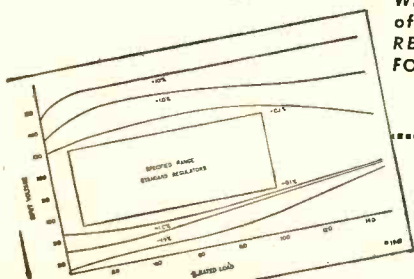
3 — PHASE REGULATION

All types of three-phase systems effectively handled. Sorensen Engineers available to review your particular problems.

Load range 450 VA to 15 KVA

WRITE for FREE COPY of the "SORENSEN REGULATOR PERFORMANCE CHART"

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DC REGULATORS

The SORENSEN NOBATRON (DC REGULATION) in effect eliminates the need for Batteries without losing any battery features. It maintains a constant voltage output against load variations, can be over compensated against line drop. It is a clean and self-sustaining source of DC power.



STANDARD DC SPECIFICATIONS

*Output Voltage	6	12	28	48	125
**Load in Amperes	5-15-40-100	5-15-50	5-10-30	15	5-10
Input Voltage	95-130 VAC single phase 50-60 cycles; adapter available for 230 VAC operation.				
Regulation Accuracy	0.2% from 0.1 to full load.				
Ripple Voltage RMS Maximum	1%.				
Recovery Time	0.2 seconds—value includes charging time of filter circuit for the most severe change in load or input conditions.				

*Adjustable + 10% — 25%.
**Individual models identified by indicating output voltage first then amperes.
Example: E-6-5 = 6 VDC @ 5 amperes.

SPECIAL REQUIREMENTS can be met by employing the ORIGINAL SORENSEN CIRCUIT. Engineering Consultation available without cost.

JAN SPECIFICATIONS met by all AC models.

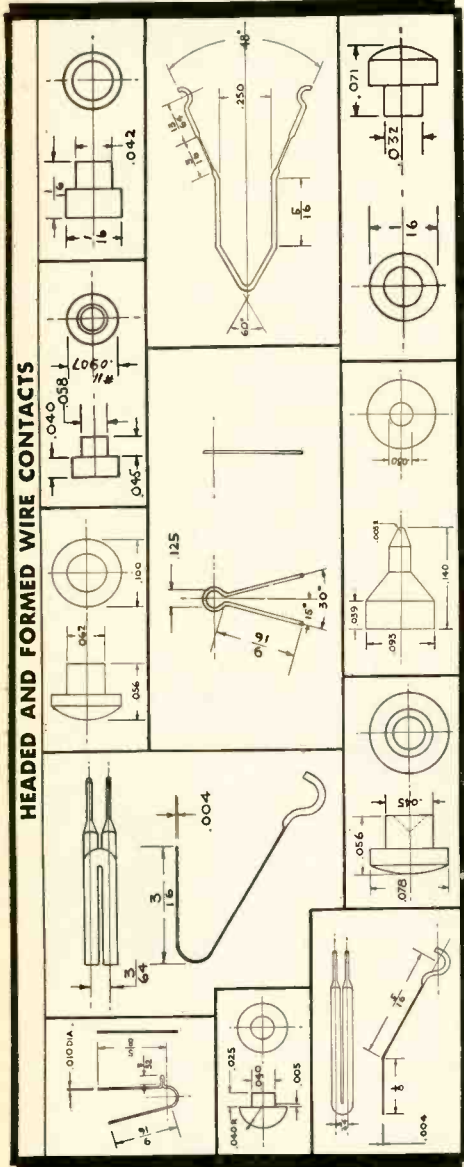
Sorensen and Company, Inc.
375 Fairfield Ave., Stamford, Connecticut

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PRECIOUS METAL ALLOYS

For ELECTRICAL and ELECTRONIC APPLICATION



Standard NEY CONTACTS Simplify design problems

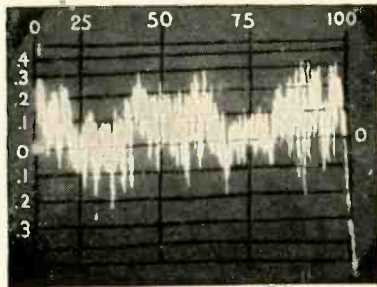
Chart shows form and overall dimensions of a few of the many types of contacts made from Ney Precious Metal Alloys for brush or wiping contact applications. Full technical and test data are available on request. Other Ney Precious Metal Alloys have solved many special industrial application problems. Consult us freely without obligation.

Write or telephone (HARTFORD 2-4271) our Research Department.

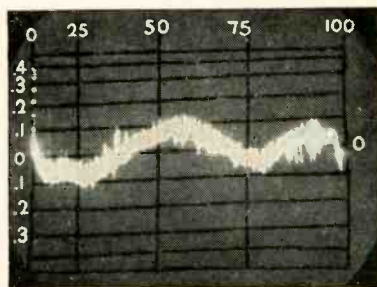
The J. M. NEY COMPANY
179 ELM STREET • HARTFORD 1, CONNECTICUT
17NY49

TEST RESULTS INDICATE LONGER LIFE AND GREATLY IMPROVED PERFORMANCE

Shown below are typical test results of PALINEY #7... a typical Ney Precious Metal Alloy... being used for sliding contacts on nickel-chrome wire-wound potentiometers in comparison with phosphor bronze contacts. Figures show low initial error and maintained linearity typical of PALINEY #7 performance. Condition of both contacts and windings after test indicated substantially reduced wear.



Cathode Ray Oscillograph showing percentage error of standard potentiometer after one million cycles or two million sweeps of phosphor bronze contact over the wire. Initial linearity was $\pm .17\%$ and the error increased to $\pm .28\%$ plus noise.



Performance of standard potentiometer modified by substitution of PALINEY #7 contact after one million cycles or two million sweeps over wire. The initial error was reduced to $\pm .12\%$ and this linearity was maintained throughout the test.

Specify **GM** D'ARSONVAL PORTABLE
GALVANOMETERS
AND MOVEMENTS

Series 570.400 in All Metal Case

A complete instrument, proved through years of rugged use in production testing, ideal for industrial and student laboratories. Its G-M mirror-type movement is both rugged and highly sensitive, uniformly accurate and easy to read. For 110-120 V, 50/60 cy. A.C. Available at your nearest supply house in choice of five sensitivities. Or write us for name of distributor.

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a plus feature

Immediately following the Product Listings in the

DIRECTORY SECTION of this Issue

is a list of more than

2500

TRADE NAMES of electronic and allied products.

They are intended for your use in determining the manufacturer's name when only a trade name is known.

FREED

TRANSFORMERS & INSTRUMENTS

"PRODUCTS OF EXTENSIVE RESEARCH"



NO. 1060 VACUUM
TUBE VOLTMETER
INPUT IMPEDANCE
50 MEGOHMS



NO. 1030 LOW
FREQUENCY "Q"
INDICATOR



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TRANSFORMERS
1/2 DB 20 CPS TO 30 KC.



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10 CPS TO 1 MC



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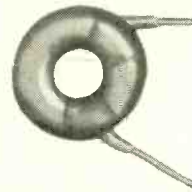
NO. 1140 NULL
DETECTOR
COMPLETE WITH
SELECTIVE CIRCUITS



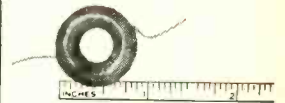
NO. 1020 MEGOHMMETER
2,000,000 MEGOHMS
DIRECT READING



HERMETICALLY
SEALED COMPONENTS
TO MEET MIL-T-27 SPECS.



TOROIDAL INDUCTORS
60 CPS TO 1 MC



MINIATURE INDUCTORS
1000 CPS TO 100 KC



NO. 1210 NULL
DETECTOR & VACUUM
TUBE VOLTMETER



DECADE INDUCTORS
30 CPS TO 300 KC



SUB MINIATURE
HERMETICALLY SEALED
TOROIDAL INDUCTORS



SUB MINIATURE
HERMETICALLY SEALED
COMMUNICATION
COMPONENTS



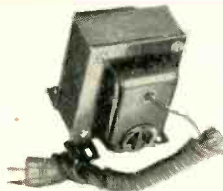
SLUG TUNED
COMPONENTS
1000 CPS TO 1 MC



NO. 1150 UNIVERSAL
BRIDGE
5 A.C. BRIDGES IN ONE
UNIT



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BRIDGE
FAST, ACCURATE,
RELIABLE



STEPDOWN
TRANSFORMERS
50 WATTS TO 3 KW.



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FROM WATTS TO
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INDUCTANCE BRIDGE
A NECESSITY FOR
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10 CPS. TO 1 MC.



CHANNEL MOUNTING
INEXPENSIVE—RELIABLE



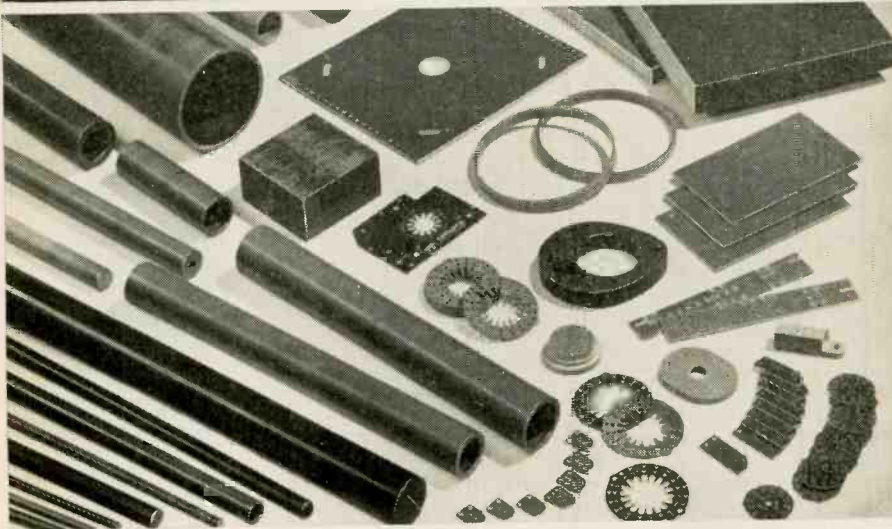
FOSTERITE TREATMENT
ANE-19 SPECS.

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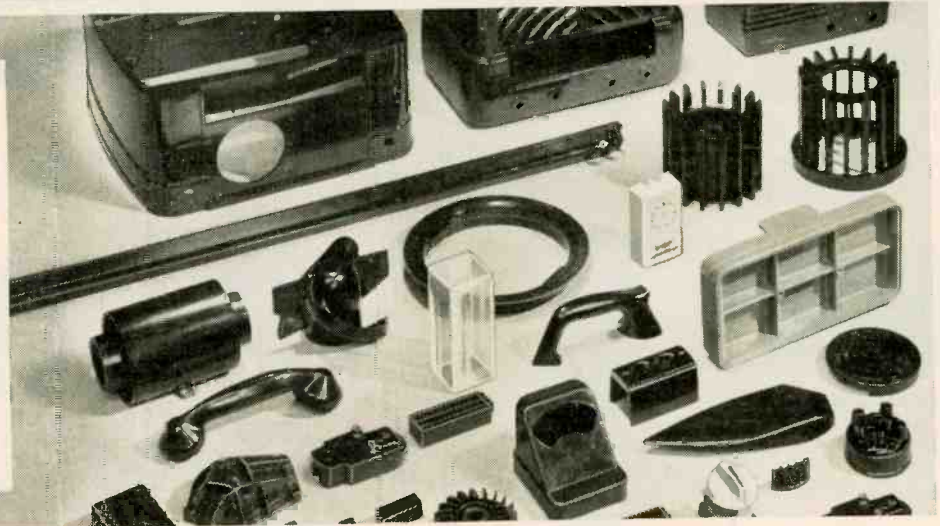


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Richardson offers the extensive services of its research, design, and engineering staffs without cost or obligation. We provide custom molding, laminating, and fabrication facilities and techniques. This assures the correct selection of material and process for every application.

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For over one-quarter century, Richardson has pioneered in the development of new plastics and the improvement of old.

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Experienced engineers analyze your requirements and help you select material, form, and process best suited to your needs.

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2767 Lake Street, Melrose Park, Illinois (Chicago District)



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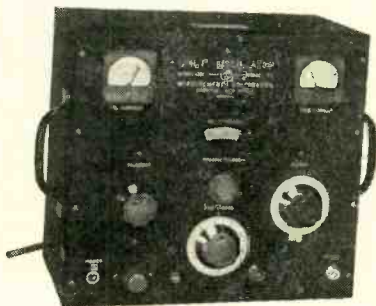
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QUALITY ELECTRONIC
MEASURING INSTRUMENTS
FOR ACCURATE, DEPENDABLE SERVICE

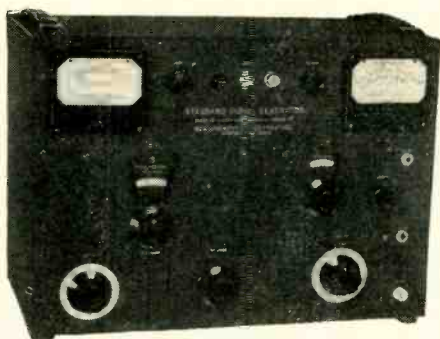
NEW!

CRYSTAL CALIBRATOR
Model 111

250 Kc. to 1000 Mc.



U. H. F. OSCILLATOR
Model 112
300 Mc. to 1000 Mc.



STANDARD SIGNAL GENERATOR
Model 82
20 Cycles to 50 Mc.

MEGACYCLE METER
Model 59
2.2 Mc. to 400 Mc.



STANDARD SIGNAL GENERATORS

MODEL	FREQUENCY RANGE	OUTPUT RANGE	MODULATION
65-B	75 Kc.-30 Mc.	0.1 microvolt to 2.2 volts	AM. 0 to 100% 400 cycles or 1000 cycles External mod., 50-10,000 cycles
78	15-25 Mc.; 195-225 Mc. 15-25 Mc.; 90-125 Mc. other ranges on order	1 to 100,000 microvolts	AM. 8200-400 cycles 625-400 cycles Fixed at approximately 30%
78-FM	86 Mc.-108 Mc.	1 to 100,000 microvolts	Deviation 0-300 kc, 2 ranges FM. 400-8200 cycles External modulation to 15 Kc.
80	2 Mc.-400 Mc.	0.1 to 100,000 microvolts	AM. 0 to 30% 400 cycles or 1000 cycles External mod., 50-10,000 cycles.
82	20 cycles to 200 Kc. 80 Kc. to 50 Mc.	0-50 volts 0.1 microvolt to 1 volt	Continuously variable 0-50% from 20 cycles to 20 Kc.
84	300 Mc.-1000 Mc.	0.1 to 100,000 microvolts	AM. 0 to 30%, 400, 1000, or 2500 cycles. Internal pulse modulator. External mod., 50-30,000 cycles.
90	20 Mc.-250 Mc.	0.3 microvolt to 0.1 volt	Continuously variable, 0 to 100% Sinusoidal modulation 30 cycles- 5 Mc. Composite TV modulation.

U. H. F. OSCILLATOR

MODEL	FREQUENCY RANGE	OUTPUT RANGE	OUTPUT IMPEDANCE
112	300 Mc. — 1000 Mc.	Maximum varies between 0.3 volt and 2 volts. Adjustable over 40 db range	50 ohms

PULSE GENERATOR

MODEL	FREQUENCY RANGE	PULSE WIDTH	OUTPUT
79-B	60 to 100,000 cycles	Continuously variable from 0.5 to 40 microseconds	Approximately 150 volts positive with respect to ground. "Sync Output" 75 volts positive with respect to ground.

SQUARE WAVE GENERATOR

MODEL	FREQUENCY RANGE	WAVE SHAPE	OUTPUT
71	Continuously variable 6 to 100,000 cycles	Rise time less than 0.2 microseconds with negligible overshoot	Step attenuator: 75, 50, 25, 15, 10, 5 peak volts fixed and 0 to 2.5 volts continuously variable.

U.H.F. RADIO NOISE and FIELD STRENGTH METER

MODEL	FREQUENCY RANGE	INPUT VOLTAGE RANGE
58	15 Mc. to 150 Mc.	1 to 100,000 microvolts in antenna. 1 to 100 microvolts on semi-logarithmic output meter, balanced resistance attenuator with ratios of 10, 100 and 1000 ahead of all tubes.

VACUUM TUBE VOLTMETERS

MODEL	VOLTAGE RANGE	FREQUENCY RANGE	INPUT IMPEDANCE
62	0-1, 0-3, 0-30 and 0-100 volts AC or DC	30 cycles to over 150 Mc.	Approximately 7 mmfd.
62-U.H.F.	0-1, 0-3, 0-30 and 0-100 volts AC or DC	100 Kc. to 500 Mc.	Approximately 2 mmfd.
67	.0005 to 300 volts peak-to-peak	5 to 100,000 sine-wave cycles per second	.1 megohm shunted by 30 mmfd.

MEGACYCLE METER

MODEL	FREQUENCY RANGE	FREQUENCY ACCURACY	MODULATION
59	2.2 Mc. — 400 Mc.	Within $\pm 2\%$	CW or 120 cycles fixed at approximately 30%. Provision for external modulation

CRYSTAL CALIBRATOR

MODEL	FREQUENCY RANGE	FREQUENCY ACCURACY	HARMONIC RANGE
111	250 Kc. — 1000 Mc.	0.001%	.25 Mc. Oscillator: .25-450 Mc. 1 Mc. Oscillator: 1-600 Mc. 10 Mc. Oscillator: 10-1000 Mc.

BRIDGES

MODEL	INDUCTANCE (L)	CAPACITANCE (C)	AC RESISTANCE (R)
102	0.5 microhenry to 110 henries	1 mmf. to 110 mfd. Power factor 0-30%	1 ohm to 11 megohms

MEASUREMENTS CORPORATION • BOONTON, N. J.

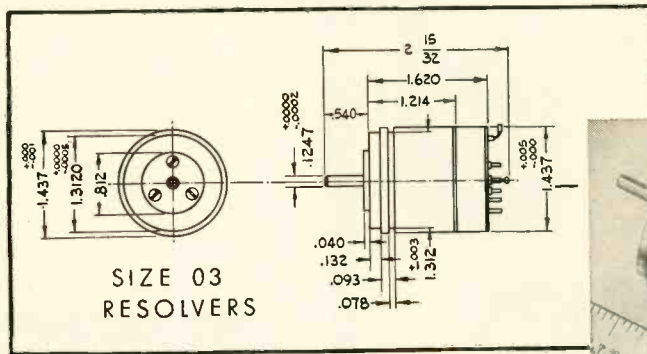
NEW MINIATURE ELECTRICAL RESOLVERS

FOR COMPUTER PROBLEMS OF INDUSTRY

ARMA **SIZE 03** (8 types)

KEY COMPONENTS IN ARMA'S POST-WAR TECHNIQUE OF ELECTRICAL "BRAIN BLOCK" INSTRUMENTATION

"Brain Block" instrumentation quickly describes any custom arrangement of light, small, accurate standard Arma components to make precision instruments and controls.



TYPICAL SPECIFICATIONS

SIZE	TYPE	DRAWING NUMBER	FREQ.	INPUTS	OUTPUTS	TRANSFORMATION RATIO (S/P)	PHASE SHIFT	INERTIA (oz. in ²)	MAX. STATIC TORQUE (oz. in.)	WEIGHT (lbs.)	MAX. ANGULAR ERROR	MAX. AXIS MISALIGNMENT	REQUIRED TO ATTAIN TABULATED ACCURACIES			
													INPUT VOLTAGE	TEMPERATURE	DWG. NO.	AMPLIFIER WEIGHT (lbs.)
03	03JJ400	786832	400 ± 0.5	2	2	1.000 ± .0025	0° 0' ± 3.5'	0.05	0.5	.35	0.12% E _s	± 7.0'	0.5 to 16.0	15° to 70° C	789640	1.2
03	03KK400	786833	400 ± 0.5	2	1	1.000 ± .0025	0° 0' ± 3.5'	0.05	0.5	.35	0.12% E _s	± 7.0'	0.5 to 16.0	15° to 70° C	789640	1.2
03	03LL400	786834	400 ± 0.5	1	2	1.000 ± .0025	0° 0' ± 3.5'	0.05	0.5	.35	0.12% E*	± 7.0'	0.5 to 16.0	15° to 70° C	789640	1.2 Note = 1
03	03MM400	786835	400 ± 0.5	1	1	1.000 ± .0025	0° 0' ± 3.5'	0.05	0.5	.35	0.12% E*	± 7.0'	0.5 to 16.0	15° to 70° C	789640	1.2 Note = 1
03	03NN400	786836	400 ± 0.5	2	2	.955 ± .015	4° 30' ± 30'	0.05	0.5	.35	0.12% E _s	± 7.0'	0.5 to 16.0	25° C		Not Required
03	03PP400	786837	400 ± 0.5	2	1	.955 ± .015	4° 30' ± 30'	0.05	0.5	.35	0.12% E _s	± 7.0'	0.5 to 16.0	25° C		Not Required
03	03QQ400	786838	400 ± 0.5	1	2	.955 ± .015	4° 30' ± 30'	0.05	0.5	.35	0.12% E*	± 7.0'	0.5 to 16.0	25° C		Not Required
03	03RR400	786839	400 ± 0.5	1	1	.955 ± .015	4° 30' ± 30'	0.05	0.5	.35	0.12% E*	± 7.0'	0.5 to 16.0	25° C		Not Required

Deviations shown are maximum — Average deviation is much less. Quadratures and harmonics each never exceed 0.1% of the sum of the input voltages. Characteristics shown are attainable with indicated required auxiliary equipment and good engineering practices for precision circuits. Note #1. One amplifier may be used with two resolvers of this type.

*E = Input
+E = Sum of Inputs

These are the resolvers about which management men have been reading: "One of the means by which the many fast changing variables of industry can be coordinated and electrically translated is Arma's electrical resolver . . . the "brain block" that replaced a formidable aggregation of gears and slides previously used to solve the trigonometric functions. It is used in instrumentation involving computers and action-triggering circuits. And, resolvers come off Arma production lines accurate to a degree seldom equalled outside the precision model shop. They fit interchangeably into instrument assemblies."

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PRECISION

Stupakoff

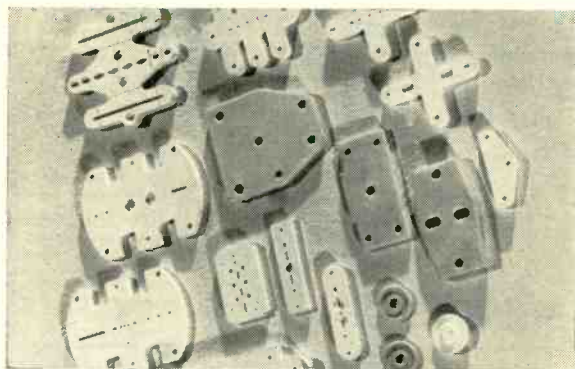
CERAMICS

KOVAR-GLASS TERMINALS

KOVAR METAL

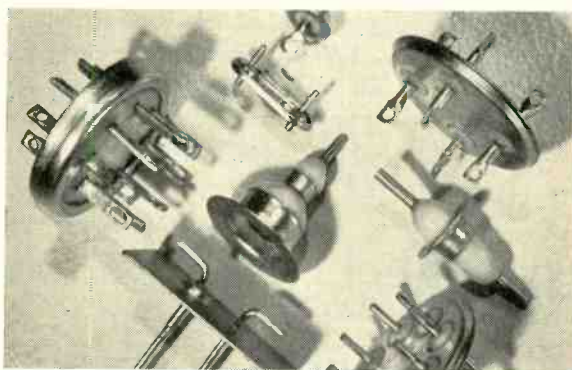
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Single terminal, lead through, from sub-miniature up to 7/8-inch flange diameter.
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Four to eight terminals, 1/4 to 1 1/4 inch diameter
Four to thirteen terminals, 0.900 to 1 1/4 inch diameter
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Special designs to customers' specifications.

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METAL



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Metallurgical and Electronic Division

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Transformer cases and covers in standard sizes or to meet your specifications—core bands — mounted covers — deep drawn flanged covers—mounting brackets—channels—reinforcing feet—covers with pierced, rolled or amphenol holes—special chassis and sheet metal fabrications. Complete transformer case kit assemblies are also available. Write for complete information.

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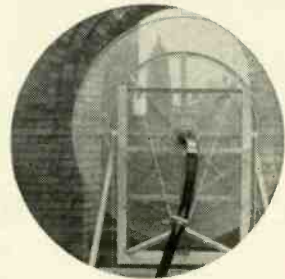
OLYMPIC

Titeflex

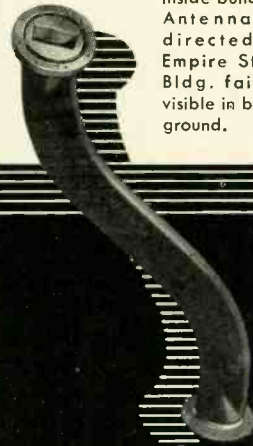
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IN VIDEO TRANSMISSION



Titeflex Waveflex Waveguides used in television transmission. Assembled lengths of Waveflex over 30 feet long connect transmitter antenna with transmitter inside building. Antenna is directed at Empire State Bldg. faintly visible in background.



Titeflex Waveflex Waveguides give you all the advantages of rigid waveguides plus the additional feature of flexibility. Complicated bends and twists can be made with virtually no change in electrical properties . . . installation costs are lowered . . . design problems are simplified. Waveflex Waveguides are made in many standard types to Army-Navy specifications—or our engineers will develop special styles for you.

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Please mention this book when
buying or inquiring from it.

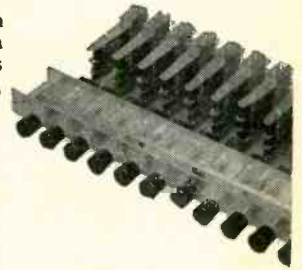
SWITCHES

by GENERAL CONTROL

• LEVER • FOOT
• PUSH-BUTTON

PUSH-BUTTON SWITCH MODEL MPB

A complete heavy-duty push-button switch with high current-handling ability. Furnished in from two to a maximum of twelve positions. Standard frame types are: (1) locking, (2) non-locking, (3) release-lock, and (4) accumulative locking with single-button release; flexibility of design allows choice of special forms. Besides standard mounting illustrated, MPB switches can be furnished on right-angle frame for use where back of panel space is limited. Std. mtg. 4-7/16" deep; rt. angle mtg. 1-9/16" plus ht. of contact assembly. Pure silver contacts, phosphor bronze springs. Rating: 5 amps., 125 volts a-c (non-ind.). Write for data sheet PS.



FRAME TYPES	MPB-2	MPB-3	MPB-4	MPB-5	MPB-6	MPB-7	MPB-8	MPB-9	MPB-10	MPB-11	MPB-12
CONTACT POSITIONS	2	3	4	5	6	7	8	9	10	11	12
Lock Release	\$5.00	\$5.20	\$6.40	\$7.60	\$8.80	\$10.00	\$11.20	\$12.40	\$13.60	\$14.80	\$16.00
No Two Interlock	5.50	5.95	7.40	8.85	10.30	11.75	13.20	14.65	16.10	17.55	19.00
*Accumulative Lock	See note	6.70	8.65	10.60	12.55	14.50	16.45	18.40	20.35	22.30	24.25

CONTACT FORMS	A	B	C	D	E	F	G	H	NC
Circuit									
Price	\$0.55	\$0.55	\$0.65	\$0.85	\$1.10	\$0.65	\$0.65	\$0.65	

* Reset button requires one position in addition to standard contact positions. Reset button is on right-hand side unless otherwise specified.

* Reset button normally actuates no contacts but can be used to actuate momentary contacts if required.

CAM-LEVER SWITCHES

Compact lightweight switches designed for long life and trouble-free service fitting many requirements. Features include shielding between contact sections, single-hole and standard mounting centers, plus availability of popular and special build-up variations. Immediate shipment of standard types. Special quotations given promptly. Write for Data Sheet IS.

TYPE	AMPS.*	HIGH	WIDE	LONG**
MCT-1	1	1-1/4"	3/4"	2-5/16"
MCT-4	1	1-1/2"	3/4"	2-1/2"
MCM	5	1-1/4"	1-1/4"	2-25/32"
MCL	10	1-3/4"	1-3/8"	3-15/16"

* 125 volts, 60 cycles, non-inductive
** From back panel to end of terminals

FRAME TYPES	CONTACT FORMS									
	CIRCUIT	A	B	C	D	E	F	G	H	NC
MCT	MCT	.36	.36	.54	.54	.72	.54	.54	.54	—
MCM	MCM	.55	.55	.65	.85	1.10	.65	.65	.65	—
MCL	MCL	.85	.85	.95	1.20	1.80	.95	.95	.95	—



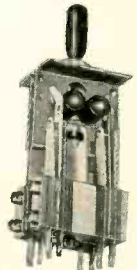
MCT-1



MCT-4



MCM



MCL

FOOTROL

GENERAL CONTROL

* KEEPS HANDS WORKING



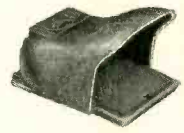
TYPE MX



TYPE MC



TYPE MI



TYPE MB

*Foot switches to meet every need. Sturdy cast-iron cases with durable finish. Standard rating 20 amp. 125 v.a.c. non-inductive. For heavy duty rating — 20 amp. 125/250/460 v.a.c.; 3/4 HP, 115 v.a.c. 1 1/2 HP 230 v.a.c — add \$1.00 to price shown. Sizes: MX — 4 1/2 x 2 x 4"; MC — 4" dia. x 2 1/8" h; MI — 6 3/4 x 3 x 4"; MB — 8 x 5 x 5 1/4". Write for Data Sheet FS.

TYPES				CONTACT TYPES		CONTACT OPERATION	
MX-1 \$3.30	MC-11 \$5.50	MI-21 \$8.80	MB-31 \$12.50	A		Normally open	Spring return
MX-2 \$3.30	MC-12 \$5.50	MI-22 \$8.80	MB-32 \$12.50	B		Spring return	Normally closed
MX-3 \$3.30	MC-13 \$6.00	MI-23 \$9.35	MB-33 \$13.00	C		Double throw	Spring return
—	MC-14 \$8.75	MI-24 \$11.35	MB-34 \$15.00	ACO-A		First press closes switch	Second press opens switch
—	MC-15 \$8.75	MI-25 \$11.85	MB-35 \$15.50	ACO-C		First press transfers switch	Second press restores switch
—	—	MI-26 \$13.00	MB-36 \$16.50	TS-AA		1st half-throw closes 1st switch	2nd half-throw closes 2nd switch
—	—	—	—	—		Spring return	—

*T.M. Reg. App'd for.

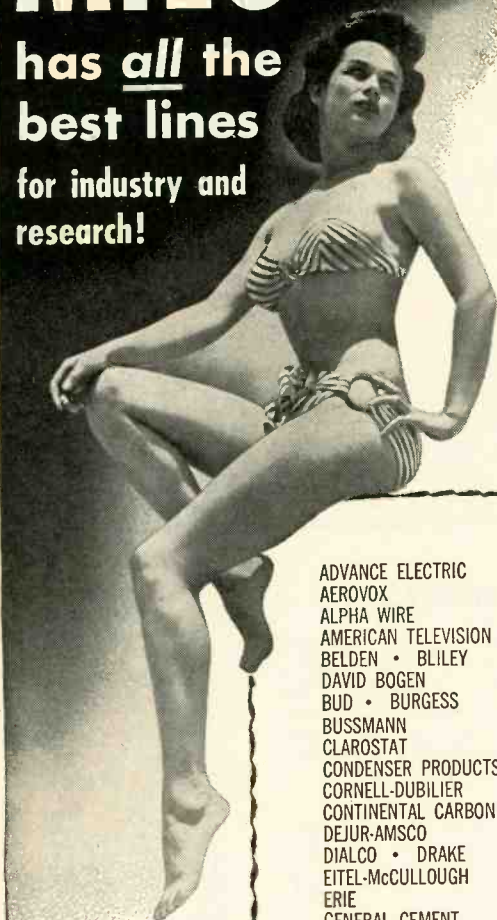


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1202 SOLDIERS FIELD ROAD
BOSTON 34, MASSACHUSETTS

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BEekman 3-2980

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Cable Address: MILOELECTRO

The ONE source for ALL your electronic needs

Regulated Power Supply

NO. 245



OUTPUT VOLTAGE DC: 200-500 volts.

OUTPUT CURRENT DC: 0-200 milliamperes.

REGULATION: Less than 1/2% for both line fluctuation from 105 to 125 volts and load variation from minimum to maximum current.

RIPPLE VOLTAGE: Less than 5 millivolts.

OUTPUT IMPEDANCE: Less than 2 ohms.

OUTPUT AC: 6.3 volts 6 amperes unregulated.

Multiple Power Supply

NO. 103



TWO B SUPPLIES: 0-300 volts. Current 75 milliamperes each, 150 milliamperes when paralleled. Ripple less than 10 millivolts.

ONE C SUPPLY: Minus 50 volts to plus 50 volts. Current 5 milliamperes. Ripple less than 5 millivolts.

ONE HEATER SUPPLY: 6.3 volts AC. Current 5 amperes.

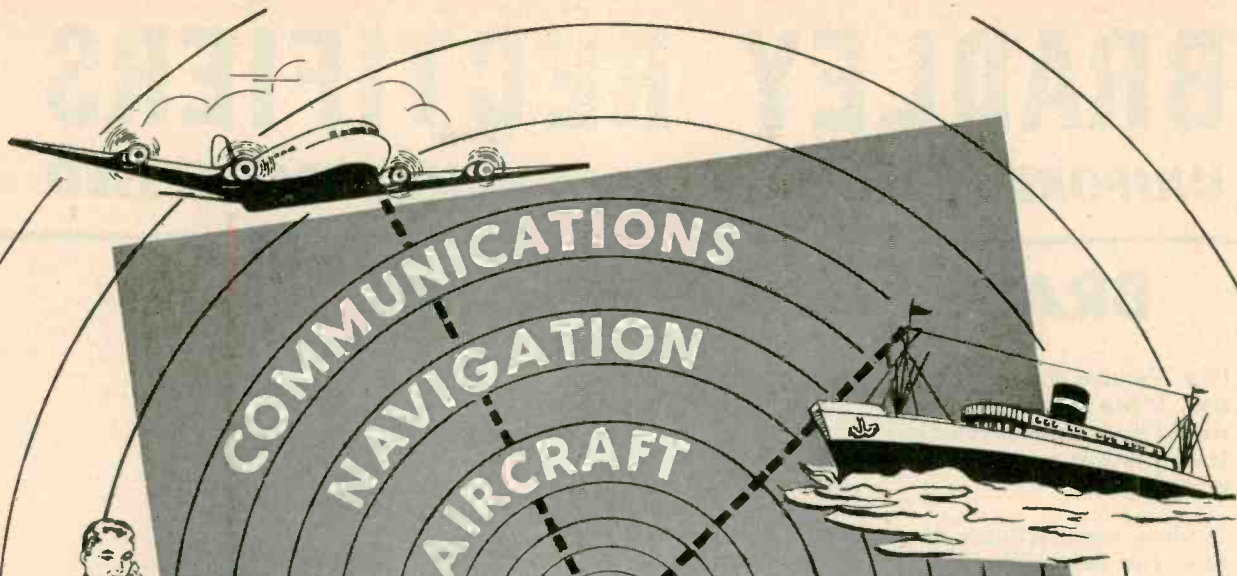
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COMMUNICATIONS
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Lavoie ELECTRONIC SYSTEMS

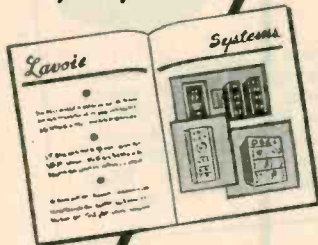
- No other UHF manufacturer offers a more varied or diversified development and design engineering staff for integrated electronic systems. . .
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SIGNAL GENERATORS AND OTHER UHF TEST EQUIPMENT



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Report*



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RADIO ENGINEERS AND MANUFACTURERS
MORGANVILLE, N. J.

Specialists in the Development and Manufacture of UHF Equipment

BRADLEY RECTIFIERS

UNIFORM IN RATING • VACUUM-PROCESSED

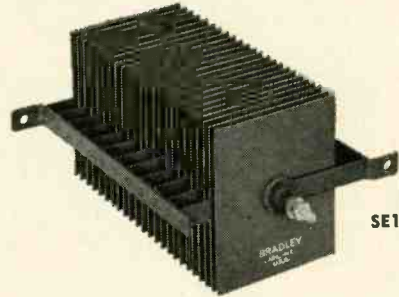
BRADLEY SELENIUM RECTIFIERS

Our Vacuum Process is unique and exclusive. It has set new standards of quality control in the manufacture of selenium rectifiers. It insures low cost rectifiers with uniformity of rating.

Leading manufacturers of electronic equipment and instruments have found that Bradley rectifiers help them achieve desired product performance. We make selenium rectifiers for operation from a few microamperes to many thousands of volts.

For accurate and predictable power conversion, specify Bradley. Our engineers are always available for assistance. They can help you get the right rectifier for your application.

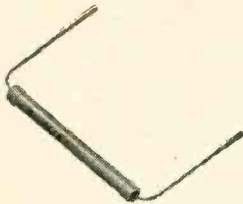
HIGH CURRENT USES



SE11X Series

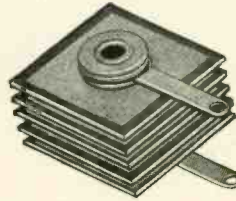
These large power stacks are constructed to provide high efficiency and stability. Plate sizes up to 5" x 6". Rated up to thousands of amperes.

HIGH VOLTAGE USES



SEB Series

These rectifiers are designed to provide maximum rating and efficiency with minimum size. Smallest completely sealed rectifier of its type. Rated from a few microamperes up to 12.5 ma D.C. and up to 6000 volts peak inverse. Units can be connected in series to obtain very high voltages.



RS Series

BRADLEY RS MINIATURE RECTIFIERS replace most rectifier tubes in radio, television, amplifier and other DC power requirements. Rated 130 Max. RMS volts input, 380 volts peak inverse Max. from 65 ma DC to 250 ma DC.

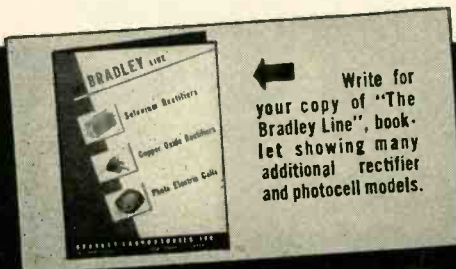
PHOTOELECTRIC CELLS



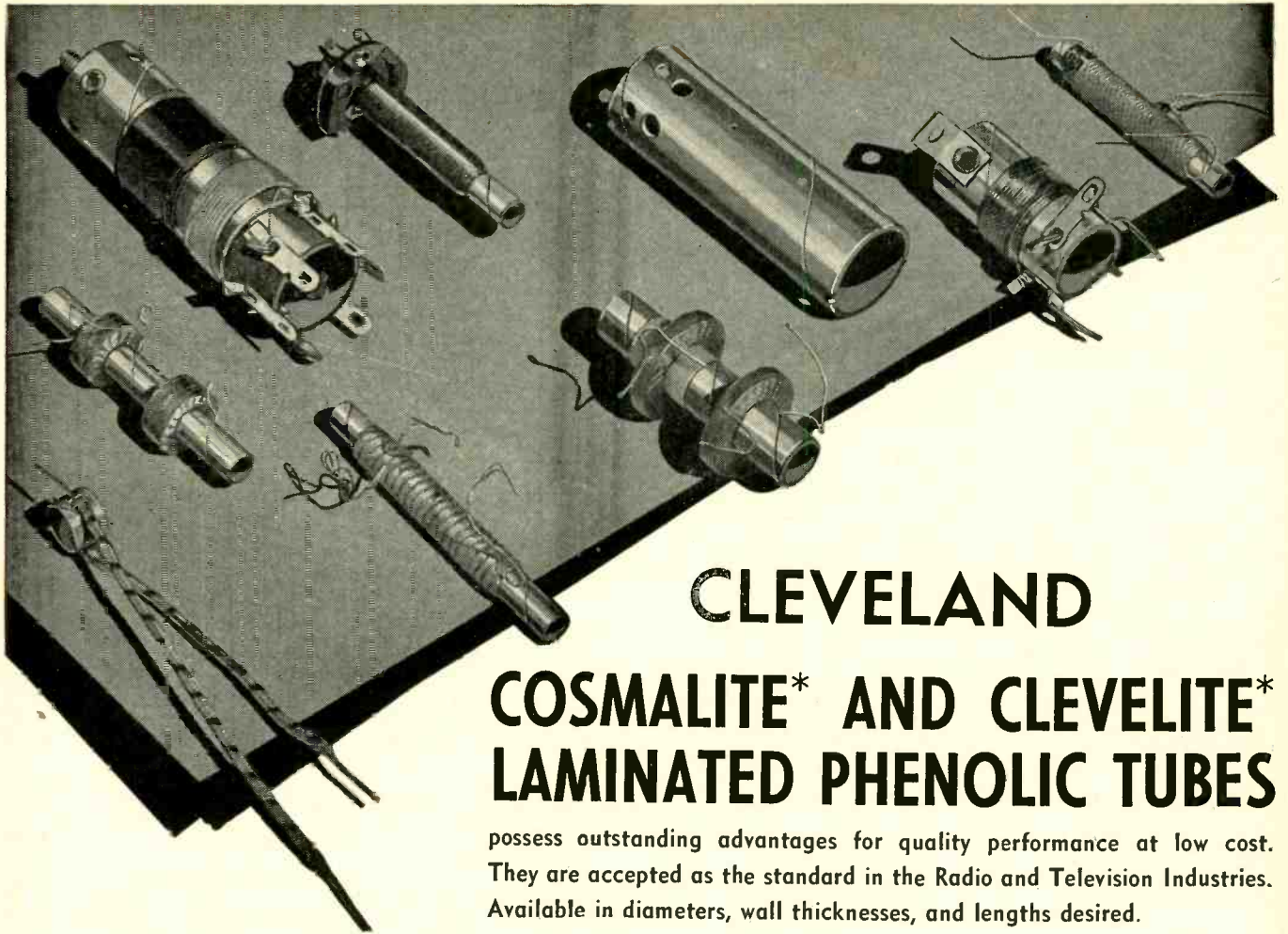
Bradley Luxtron® photocells convert light directly into electrical energy without external power source for direct operation of meters and meter relays. They are versatile, rugged, true to rating, simple to install. Wide range of models, sizes and shapes.



BRADLEY COPPER OXIDE INSTRUMENT RECTIFIERS have vacuum-processed gold contacts for maximum efficiency and minimum temperature error. Precision made to meet the most rigid matching and balancing requirements, yet low in cost. Universal type rectifier shown for all replacements or AC meter conversions. Rated up to 12 volts AC, 5 ma DC.



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LABORATORIES, INC.**
82 MEADOW STREET, NEW HAVEN 10, CONN.



CLEVELAND

COSMALITE* AND CLEVELITE* LAMINATED PHENOLIC TUBES

possess outstanding advantages for quality performance at low cost. They are accepted as the standard in the Radio and Television Industries. Available in diameters, wall thicknesses, and lengths desired.

COSMALITE and CLEVELITE are made to meet the most exacting specifications as to their physical and electrical properties for special electrical equipment such as

Coil forms . . . Insulating sleeves . . . Coil winding bobbins
. . . Laminated insulation parts . . . Tubing of various types
such as fibre, paper, plastic, synthetic resin, varnished or
lacquered.

For the best . . . "Call Cleveland." Samples on request.

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Cinch
ELECTRONIC
COMPONENTS

CINCH MANUFACTURING CORPORATION
1026 S. HOMAN AVE. • CHICAGO 24, ILLINOIS

CINCH SOCKETS: The large variety of Cinch Sockets include many for Radio, Television, vehicular, and air-borne use. Shown are a few of the most popular standard sockets from the complete line. The component parts are of the best materials available. Precision engineering and careful inspection guarantee these sockets to be dependable and durable under the most exacting requirements.



The various types of sockets include: Molded Octal with 1 5/16" and 1 1/2" mounting centers; Chassis Clinch Octal; Ring Mounted Octal; Molded Loktal; Glass Tube Sockets and Wafer Octal. Molding material includes high dielectric black bakelite or mica-filled low loss bakelite. Contacts are of solder coated brass. Mounting holes from 1" up to 1 1/2". Glass Tube Sockets will fit 4 to 7 prong tubes.



CINCH CAPACITOR "PLUG-IN" SOCKETS Small models for use with Mallory and Magnavox 1" FP type condensers. Large model 1 3/8". Three or four recessed center contacts. Ideal for instant replacement in telephone, airborne radio, broadcasting equipment, etc. when electronic circuits fail.



CRYSTAL SOCKETS In two prong and four prong types. Two prong for 31/64" and 1/2" centers. Four prong 31/64" centers. Molded from either bakelite or mica-filled bakelite. For use with FT243 type crystals and SR-1 and SR-7 type crystals.



7 and 9 PIN MINIATURE SOCKETS & SHIELDS

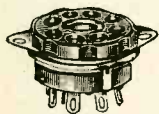


Cinch manufactures 7 pin miniature sockets and shields being used extensively for radio, television, FM, vehicular equipment, etc. They also—in cooperation with tube manufacturers—have designed and produced a complete line of molded and laminated miniature sockets for the Noval 9 prong tube. Used extensively for radio, television, radio controlled taxis, and other vehicular communication equipment. Types include the following: Molded-Saddle, for top or bottom mounting; Wafer and Chassis Clinch. Tube shields include Shield Base and Snap-On type. Molding material is either high dielectric bakelite or mica-filled low loss bakelite. Silver coated brass contacts, 7 pin types, have 7/8" mounting centers (Wafer types 1" and 1 5/16" mounting centers). 9 pin have 1 1/8" mounting centers. Shields are made from durable steel and are available in three lengths.



CINCH-ERIE "PLEXICON" TUBE SOCKETS

with built-in ceramic condensers. Effective methods of by-passing tube pins with condensers close to tube element, plus short-circuit path to ground. Cap. up to 1000 MMF. Any tube element may be coupled or by-passed as desired. Molded from mica-filled low loss bakelite. Specially designed silver plated beryllium copper contacts. Types include: Octal, Loktal 1 5/16" mtg. centers. 7 pin miniature 7/8" mtg. centers. 9 pin miniature 1 1/8" mounting centers.



SEND FOR COMPLETE CATALOGUE

The Cinch catalogue No. 49 contains complete data and prices on all of the Cinch electronic components. Requests on company letterhead will be promptly answered.

RADIO HARDWARE: Cinch manufactures a comprehensive line of hardware for radio requirements that include cable clamps (A) cadmium plated in range of sizes to secure cables from 1/16" dia. to 5/8" dia. Grid clips (B) for glass or metal tubes. Solder lugs (C) they are solder coated in 408 different styles. Knob springs (D) many sizes to fasten knobs to shafts. High grade spring steel.



BATTERY PLUGS: Fit all types of batteries. Nickel plated brass tube pins on high grade bakelite. Send for chart that indicates correct plug for all popular batteries.



CONNECTOR PLUGS & SOCKETS

Low cost plugs and sockets ideal for a multitude of applications. Particularly where space is at a premium. Plugs for 2 to 35 prongs. Sockets for 2 to 35 contacts. Polarized nickel plated brass tube pins. Solder coated brass contacts. Lock feature prevents turning in shell.



PLUG CAPS & SHELLS for the above connector plugs and sockets and battery plugs. Cadmium plated brass shell or black nickel finish. One type 18J has fibre insulator with 1/2" neck.

PIN PLUGS Includes pin plugs for record players, auto radios, receivers, etc.; Automotive Plugs. 8 cutting edges provide positive ground connection in Cinch No. 81 connectors; Insulated Pin Plug.



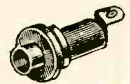
JACKS Single or double phono for recording units, receivers, auto sets, etc. Also Phono Tip Jacks, double or triple for speakers, headphones, etc.



CONNECTORS Automotive connectors, shell or flange type. Motorola type shielded jack. Solder coated shell, flange and contact. Screw or rivet mounted. Used extensively on auto radios.



STAND OFF TERMINALS Insulated for TV and other high voltage applications. Excellent for passing high voltage wires through chassis. Two lengths, 9/32" and 13/32". Mica-filled low loss bakelite.



Lug & Screw Type Terminal Strips

Screw type ideal for chassis or breadboard layouts. 1 to 6 lugs (1/16" bakelite): 7 to 10 terminals (3/32" bakelite). Strips handy for supporting resistors, condensers, etc. in circuit wiring. Strips 1/16" thick and 3/8" wide. Lugs spaced 3/8" on centers. Terminals and lugs are solder coated brass.



110-250 V. SOCKET

For use in limited space. Rated 15 amp. 110v or 10 amp. 250v. High dielectric bakelite, silver coated brass contacts on 1/2" centers. For any two prong standard electric plug.

HEARING AID SOCKETS

Sub-miniature for hearing aids, radio controlled model airplanes or other applications, using sub-miniature tubes. Mica-filled low loss bakelite, silver plated beryllium copper contacts. 5, 6, or 7 contacts. For conventional wiring and printed circuit applications.





Jones

HOWARD B. JONES DIVISION

CINCH MANUFACTURING CORPORATION

1026 S. HOMAN AVE. • CHICAGO 24, ILLINOIS



S-306-AB



P-306-CCT

JONES PLUGS & SOCKETS

300 Series

For use in circuits not exceeding 45v at 5 amps. Small size but good separation between contacts. 2 to 33 contacts. Body of molded bakelite, phosphor bronze "knife-switch" type socket contacts. Prongs 5/32" x 3/64". Formed metal caps finished in black crystal. Fibre linings for caps are also formed. No. S-306-AB (illustrated) 6 contacts. Socket with angle brackets. No. P-306-CCT (illustrated) 6 contacts; a plug, cable clamp in cap. All plugs and sockets polarized—one size plug will not fit socket of another size. Many other types available.

2400 Series

Designed for highest electrical, mechanical efficiency (110v at 10 amps). Socket contacts of phosphor bronze, cadmium plated. Available in 2, 4, 6, 8, 10, 12 contacts. All plugs and sockets polarized. Choice of molded bakelite. Contacts mounted in recessed pockets greatly increasing leakage distance and increasing voltage rating. Improved socket contacts—four individual flexing surfaces. Positive contact over practically their entire length.



S-2406-SB

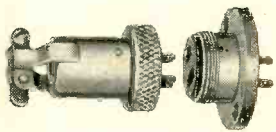


P-2406-CCT

202 Series

Made in two contacts only. Metal parts are brass with burnished cadmium plate. Molded bakelite insulation. Phosphor bronze "knife-switch" type socket contacts engage both sides of flat plug contacts—double contact area. Formed fibre linings

in caps. Polarized. Knurled nut has 3/4"—27 thread.



SPECIAL TERMINAL PANELS manufactured by the Howard B. Jones Division, solve the problem encountered in individual pieces of equipment. Insulation is bakelite. Any number of Terminals can be mounted. Metals include brass, copper; tin or cadmium plated. There is a Jones terminal strip to meet your every need. Send us a print or a description of your requirements and we will promptly submit prices.

MULTIPLE FUSE MOUNT PANELS No. 1200 Series

Convenient panel arrangement for multiple circuits. One side is common making it convenient for wiring. Screw terminals on same side of panel as fuse clips. Mounts No. 3-AG fuses. 1 to 6 fuse mtg. or 2 1/2" to 3" centers.

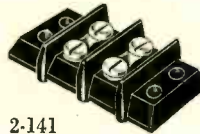
BARRIER TYPE TERMINAL STRIPS



2-141-Y



2-141-3/4W

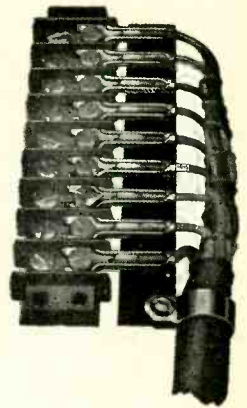


2-141

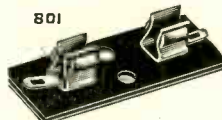
Provide increased insulation by having Barriers placed between each terminal. They follow around edge of strips and terminate at base. They not only make long leakage path but prevent direct shorts from frayed wire at the terminals. Mounting holes are at the ends. Base is of molded bakelite. Terminals and Binder Screws are brass, nickel plated. Marker strips may be ordered and imprinted to supply terminal designations. They mount beneath terminal strips and also afford insulation from metal mounting surface. Send for imprinting data. No. 141 series is illustrated.

JONES FANNING STRIPS

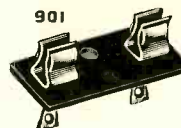
For connecting to barrier terminal strips. They eliminate color coding, speed up assembly, improve appearance, insure correct connections. Made of .032" brass, cadmium plated and are furnished with either a hole in right or left end for fastening the cable. Makes replacement of units an easy matter and assures correct connections after servicing. Cable clamps are available for fanning strips and are furnished in six different sizes. In small space areas right angle mounting permits use when Barrier mounts flush with side of chassis. Illustration shows No. 9-141 Barrier Strip and 9-161 Fanning Strip.



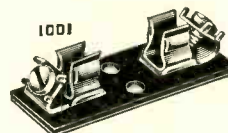
FUSE MOUNTS



801



901



1001

800 Series: Provides solder tab on the same side of the panel as the fuse clips. Mounts No. 3-AG fuses. Panels with clips for spare fuse having word "SPARE" imprinted on panel. Number of fuses 1-7 mounting on centers 3/8"-3".

900 Series: Provide solder tab on the opposite side of panel to the fuse clips. Mounts No. 3-AG fuses. Has same "SPARE" marking and number fuses and mounting center holes as No. 800.

1000 Series: Provide screw terminals on the same side of the panel as fuse clips. Clips are mounted so that screws face end of panel. Has same "SPARE" imprint, number of fuses and mounting hole centers as previous types.

SEND FOR JONES CATALOG . . .

The above items indicate only a small portion of the complete Howard B. Jones line. Send for their catalog No. 18 which will give you complete data (prices, electrical characteristics, etc.). Your request for this catalog or for quotes on special products will be promptly answered.

EDA HIGH GAIN
DC AMPLIFIER. DC to
100,000 cps. Gain
25,000 times.

THE
ACCURATE, FLEXIBLE
SOLUTION TO YOUR
TOUGHEST JOBS!

H-21 FOUR CHAN-
NEL OSCILLOSCOPE
2 AC and 2 DC
amplifiers, DC to
800,000 cps.

H-43 FOUR CHAN-
NEL OSCILLOSCOPE
Designed to record
through continuous
strip cameras similar
to Fairchild F 24E A.

MULTI-GUN CATH-
ODE RAY TUBES.
Two, four, six, eight,
and ten gun tubes,
potentiometer and
radial deflection
tubes.

H-21 DUAL CHAN-
NEL OSCILLOSCOPE.
Sensitivity better
than 0.036 V rms
per inch.

CA-1 DC FRE-AM-
PLIFIER. For strain
gauge applications.
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Men in work similar to yours have successfully applied our Cathode Ray tubes, oscilloscopes and scope amplifiers in testing, production and research capacities where such equipment was never practical before.

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You can benefit from our development program which is leading industry to new products, new refinements in existing products, new research methods and techniques.

Drop us a line. We'll be glad to send you full information or talk over your specific needs.

All scopes illustrated employ five inch flat-face tubes.

electronic tube corporation
PHILADELPHIA 18, PENNSYLVANIA



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Accuracy:
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AC and DC types, high accuracy, multiple ranges, 2 microamperes to 1 ampere DC, 2 milliamperes to 3 amperes AC.

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HOOK-UP WIRE

A few constructions standardized to meet requirements of all branches of the Government Services are of best quality for commercial use.

TYPE SRIR WITH GLASS BRAID COVERING IN COLORS

Gauge Sizes: #24 to #8 stranded, also available solid or flexible.

Insulation: Black extruded synthetic resin, flameproof, oil resisting, easily stripped.

Covering: Closely woven fiberglass in solid colors: white, black, brown, red, orange, yellow, green, blue and any of 100 combinations.

Coating: Thoroughly coated and smoothly finished with tough flame resisting lacquer.

Voltage Rating: 1000 volts RMS operating, diameter no larger than ordinary 600 volt.

TYPE SRHT (Synthetic Resin High Temperature) is the designation for a series of electronic hook-up wires for high temperature applications. Generally they conform to the requirements of Spec. 15W9 and are made in all gauge sizes, #26 to #6 in all colors with four types of coverings to be serviceable under different conditions:

SRHT (GS): Rated at 200°C is silicone treated fibreglass braid shielded with a tinned copper braid.

TYPE SRIR: Plain colored plastic insulation striped in standard color combinations.

TYPE SRLV: With or without glass covering. Small diameter 300 volt rating in all colors for miniature wiring.

TYPE SRIR (J) WITH NYLON SHEATH: For extreme conditions of abrasion and moisture.

TYPE SRHV EITHER GLASS BRAID OR NYLON SHEATH: For voltage ratings 2500, 5000 and 7500.

TYPE ANRW WITH COTTON BRAID: For good abrasion and heat resistance—insulated with neoprene compound for 600 volts, withstands momentary baking at 250°F without damage—for leads on coils and transformers.

SRHT (NL): Rated at 125°C is nylon braid covered and finished with flexible flameproof lacquer.

SRHT (CV): Rated at 150°C is covered with a unique abrasion resistant braid saturated with silicone resin.

SRHT (GV): Rated at 200°C is covered with fibreglass braid saturated and finished with silicone resin.

PERFORMANCE DATA—TYPE SRHT

HEAT RESISTANCE: Withstands baking at 200°C for 96 hours followed by flexing and dielectric test.

COLD RESISTANCE: Withstands flexing at -55°C followed by dielectric test.

MOISTURE RESISTANCE: After immersion in hot water for one hour with-

stands dielectric test of 2500 volts and has an insulation resistance of 500 meg/M ft.

FLAME RESISTANCE: Self-extinguishing after exposure to 15 seconds flame test with sample held at 45° angle.

"TEFLEX" HIGH TEMPERATURE MOTOR AND TRANSFORMER LEAD CABLES

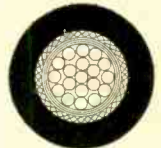
PATENTED

Designed to meet the requirements of electrical equipment operating at high temperatures—a flexible cable of higher dielectric strength and insulation resistance, smaller in diameter, flameproof, resistant to corrosive vapors, acids, and solvents. B.I.W. Teflex cables fill the need for high temperature cables operating in wet locations and severe conditions. They are made in two standard types. Both types are made in all sizes from #22 to #2AWG in 600 volt rating and in high voltage ratings as may be required from 1,000 to 50,000 volts.



BIW TYPE PFCV consists of flexible copper conductor insulated with a laminated layer of DuPont Teflon sealed with silicone to form a moisture-proof insulation which remains flexible after exposure to high processing temperatures and may be operated at 150°C continuously. Covered with a unique heat and abrasion resistant braid.

BIW TYPE PFRW similar to PFCV except that it has an external synthetic rubber sheath to provide more durability for heavy duty applications. This sheath will withstand varnish dipping and oven or infra-red baking. This type can be rated at higher temperatures and can carry higher power ratings than conventional cables.



HIGH and LOW TEMPERATURE FLEXIBLE COAXIAL CABLES

PATENTED

These cables employ the use of laminated "Teflon" tape insulation which remains flexible over temperatures from -80° to 500°F and withstands these temperatures with little

change in electrical or physical properties.

The suffix "GV" refers to a Teflon tape and treated fibreglass outer covering which can be rated at 400°F, the same as the insulation.

The suffix "RS" is a neoprene sheath which is lower in cost but limits the temperature rating to 250°F.

The suffix "NL" refers to a lacquered nylon braid covering which can be rated at 200°F.

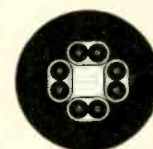
TYPE NO.	CONDUCTOR	O.D.	WEIGHT lbs./M'	CAP/ft. mmf.	OHMS Impedance	
COX-2FS-011-GL	.011" cw.	.075"	4.5	31.5	50	Miniature
COX-3FS-011-GL	.011" cw.	.090"	6.0	23.7	70	Miniature
COX-3FS-014-GL	.014" cw.	.100"	7.5	22.0	72	Miniature
COX-2FS-22-RS	#22 str.	.170	22.	30.	50	Small
COX-2FS-22-NL	#22 str.	.125"	16.	30.	50	diameter
COX-2FS-22-GV	#22 str.	.125"	18.	30.	50	flexible
COX-3FS-22-RS	#22 str.	.190"	25.	21.	71	cables
COX-3FS-026-GV	.026" cw.	.240"	50.	20.	73	Size of 59/U
COX-4FF-026-RS	.026" cw.	.250"	45.	14.	88	Equal to 62/U
COX-2FS-032-GV	#20 Ag	.195"	35.	28.	60	Size of 58/U
COX-2FS-20-RS	#20 str.	.195"	35.	37.	57	Equal to 58A/U
COX-2FS-20-GV	#20 str.	.165"	30.	36.	52	Equal to 58A/U
COX-2FS-16-GV	#16 st. Ag	.260"	90.	30.	50	Equal to 5A/U
COX-2FS-13-GV	#13 st. Ag	.365"	124.	34.	52	RG-115/U
COX-2FS-10-GV	#10 st. Ag	.445"	200.	30.	52	RG-94/U
COX-2FS-5-GV	#5 st. Ag	.710"	475.	30.	52	RG-93/U

CUSTOM MADE MULTI-CONDUCTOR NEOPRENE SHEATHED CABLE

Examples from over 650 different designs of flexible cables made for the electrical industry to operate a certain device or to connect component equipment.



197



338



391

#197—3-50 ohm coaxials, 21 #22 insulated conductors for television cameras.

#338—4 #22 gauge 300 volt pairs each shielded and color identified.

#391—2 #14 high voltage, #14 ground 5 #18—300 volt control circuits.

WITH OUR ENGINEERING EXPERIENCE IN MANUFACTURING SPECIAL CABLES AND OUR WIDE RANGE OF PRODUCTS AND FACILITIES, WE ARE IN POSITION TO HELP SOLVE YOUR WIRE AND CABLE PROBLEMS AND WE SOLICIT YOUR INQUIRIES.

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BOSTON INSULATED WIRE & CABLE CO.

BOSTON 25, MASS.

STANDARD RI-FI* METERS

14 kc to 1000 mc!

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FOR THE ARMED FORCES.
AVAILABLE COMMERCIALY.



VHF!
15 MC
to
400 MC
NMA - 5

Commercial equivalent of TS-587/U.
Sensitivity as two-terminal voltmeter, (95 ohms balanced)
2 microvolts 15-125 MC; 5 microvolts 88-400 MC. Field
intensity measurements using calibrated dipole. Frequency
range includes FM and TV Bands.



VLF!
14 KC
to
250 KC
NM - 10A

Commercial equivalent of AN/URM-6.
A new achievement in sensitivity! Field intensity measure-
ments, 1 microvolt-per-meter using rod; 10 microvolts-per-
meter using shielded directive loop. As two-terminal volt-
meter, 1 microvolt.



HF!
150 KC
to
25 MC
NM - 20A

Commercial equivalent of AN/PRM-1.
Self-contained batteries. A.C. supply optional. Sensitivity as
two-terminal voltmeter, 1 microvolt. Field intensity with 1/2
meter rod antenna, 2 microvolts-per-meter; rotatable loop
supplied. Includes standard broadcast band, radio range,
WWV, and communications frequencies.



UHF!
375 MC
to
1000 MC
NM - 50A

Commercial equivalent of AN/URM-17.
Sensitivity as two-terminal voltmeter, (50-ohm coaxial input)
10 microvolts. Field intensity measurements using calibrated
dipole. Frequency range includes Citizens Band and UHF
color TV Band.

Since 1944 Stoddart RI-FI* instruments have established the
standard for superior quality and unexcelled performance.
These instruments fully comply with test equipment require-
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and others. Many of these specifications were written or re-
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*Radio Interference and Field Intensity.

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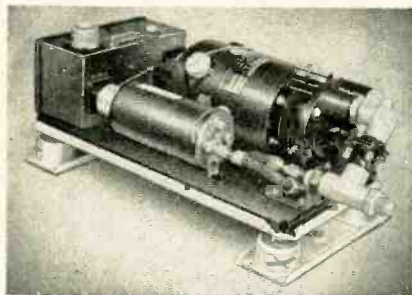
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Less than 1.2 VSWR to 3000 MC.
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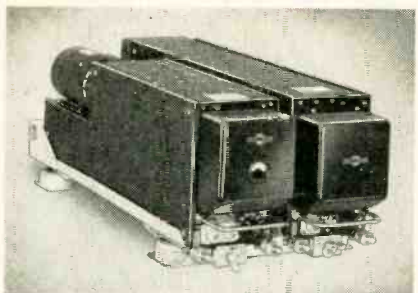
Leading Manufacturers
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BARRYMOUNTS
FOR ASSURED CONTROL
of SHOCK and VIBRATION



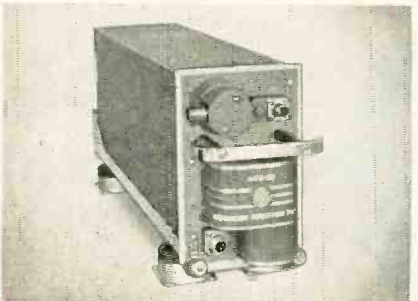
ECLIPSE-PIONEER Division of Bendix Aviation Corp. uses a BARRY Standard Mounting Base to safeguard accurate operation of its air pump and control unit for aircraft pressurization.



SPERRY Gyroscope Company protects the famous Zero Reader, a sensitive "super-instrument" for "blind" flying, from aircraft shock and vibration with unit air-damped BARRYMOUNTS.



COLLINS new vhf radio equipment, a full line of aircraft navigation and communications equipment, uses unit BARRYMOUNTS with a Collins-designed base.



RCA AVR-21, Automatic Direction Finder, mounted on Type M-112 BARRYMOUNTS, performs satisfactorily when subject to 10G vibration in any of three directions, without resonance above 13 cycles.

SHOCK AND VIBRATION NEWS

There's a BARRYMOUNT
for each of your needs!



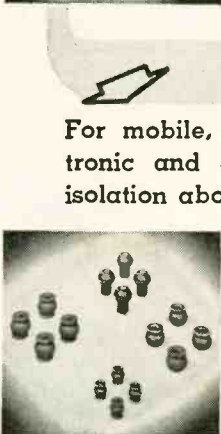
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Standard bases with dimensions to government specifications. Special bases to customers' exact requirements.



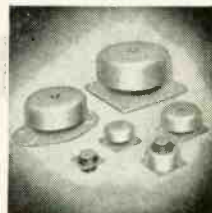
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Unit isolators designed to meet Army, Navy, and CAA requirements. Stock mountings — 1/4 pound to 45 pound load range. Others on order.



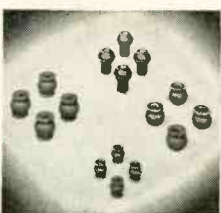
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For mobile, railroad, and shipboard electronic and electrical equipment. Also for isolation above 2000 c.p.m., and for general sound isolation.



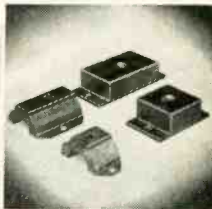
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For fans, motor generator sets, transformers, presses, other heavy industrial equipment.



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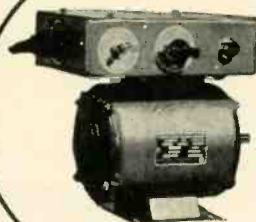


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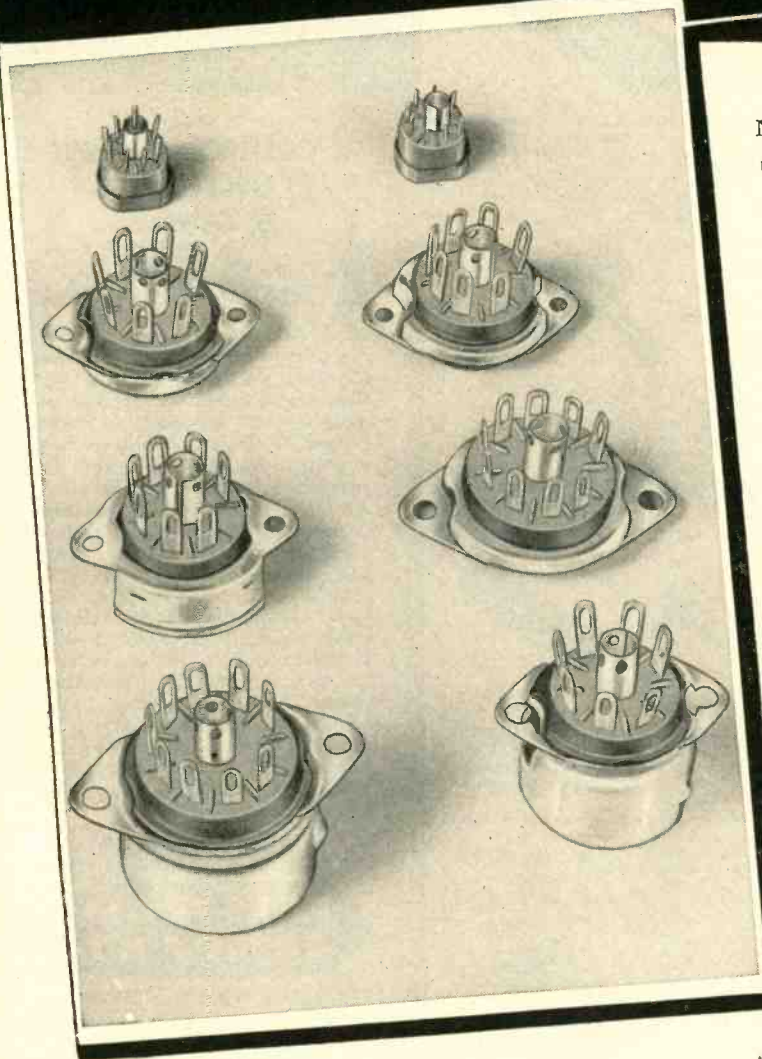
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MYCALEX miniature tube sockets are injection molded with precision that affords uniformity and extremely close tolerances. MYCALEX insulation has high dielectric strength, very low dielectric loss, high arc resistance and great dimensional stability.

Produced in two grades: MYCALEX 410 conforms to Grade L4 specifications, having a loss factor of only .015 at 1 MC. It is priced comparably with mica filled phenolics.

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Mycalex Tube Socket Corporation

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MYCALEX CORP. OF AMERICA

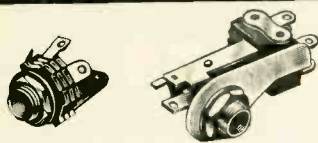
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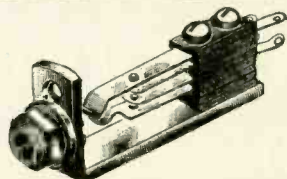


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"LITTEL-JAX"—require minimum panel space—available in most common circuits. Military types such as JK-33A (JJ-033) and JK-34A (JJ-034).

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PHONE JACKS PHONE PLUGS SWITCHES: Push Button, Rotary and Lever Action

Illustrated are representative parts of the regular line. Send for catalogue No. S-49A.

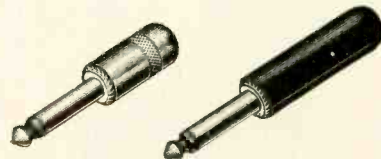
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"FLAT PLUG"—radically new design—removable cover permits use with screw or solder lug terminals. Available in 2- or 3-conductor types; red or black covers. Ideal for business machines, hard of hearing installations, where projecting handle of conventional plug is objectionable.



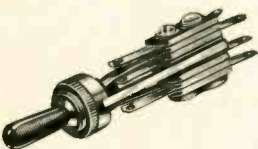
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"LITTEL-PLUG"—small, fits standard Jacks—features clamp type terminal for cable support.

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"LEV-R-SWITCH"—a lever action switch, unusual because of size, and requires only single hole for mounting. Available in numerous circuits; various contact materials.



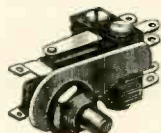
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Rugged yet small, a Push Button switch available in simple circuits; contacts to suit. Various colors of Buttons.



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Flat frame support spring "pile-up" in various circuits and contact combinations. "Easy" action of colored push buttons.



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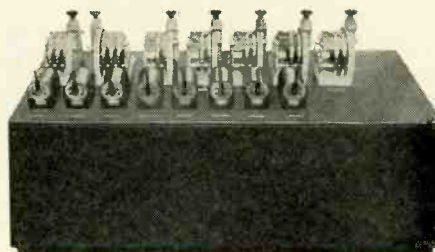
Rotary switch, rugged frame supports spring "pile-ups"; minimum panel depth. 2-or-3 position; locking or non-locking action.

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IT'S **MYCALEX** 410

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AT NEW LOW PRICES

No insulating material compares with MYCALEX 410 for today's exacting requirements—where advanced circuits and higher frequencies demand a combination of these properties:

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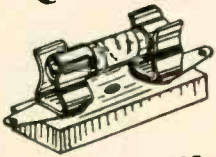
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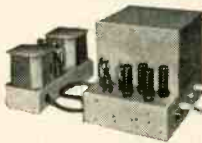
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Input 110 V AC. Out-
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A 12 tube 30 KV unit
with a variable 4 to 6
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A compact unit ideal for use with
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COMPLETE LINE OF HI VOLTAGE RF STEP-UP COILS

We also have facilities for winding
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The 25 KV and 35 KV coils will provide DC
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Klingsbridge 7-0306

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Available with either
positive 40 KV output or
negative 40 KV output. A
compact unit adaptable
for nuclear physics, elec-
tro-static painting, dust
precipitation, insulation
testing, television and
other industrial uses.

The 20 KV variance in
voltage is available
through control on front
panel. Output voltage
supplied through 4 ft.
length of safety High Voltage
cable. If desired, cable lengths
up to 50 feet are available at
additional cost.



NET PRICE
\$114.50

Dimensions: L. 14-1/8". W. 11-1/8". H. 12-1/8"

Tubes: 1-5U4 Rectifier 2-6L6 Oscillator 3-1B3
HV Rectifier

INPUT: 110 Volts AC

VOLTAGE OUTPUT: 20 to 40 KV CURRENT
OUTPUT: 500 Microamperes Unit includes pilot
light, off-on switch and high voltage output control
on front panel. Also available in standard relay
rack mount at additional cost. Specify desired
voltage when ordering.

A 30 KV television version of
above unit with a variable 4 to 6
KV Voltage tap for focus voltages
for STP4 kinescope, etc. is avail-
able

NET PRICE
\$99.50

Spellman TV Power Supplies were used in recent FCC color
television demonstrations in Washington, D. C.
Some of our typical purchasers: RCA, COLOR TELEVISION,
INC., HAZELTINE LABS, SYLVANIA, G.E., WESTING-
HOUSE, U. S. ARMY, U. S. NAVY, BELL TEL. LABS.,
M. I. T., BROOKHAVEN NATIONAL LAB.

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until next year
will you get another

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Don't let it get away
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It's the best source
of buying information
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and allied products
that has ever
been compiled.

When buying, or requesting prod-
uct information be sure to mention
ELECTRONICS BUYERS' GUIDE.

Get **KOBZY** Quality

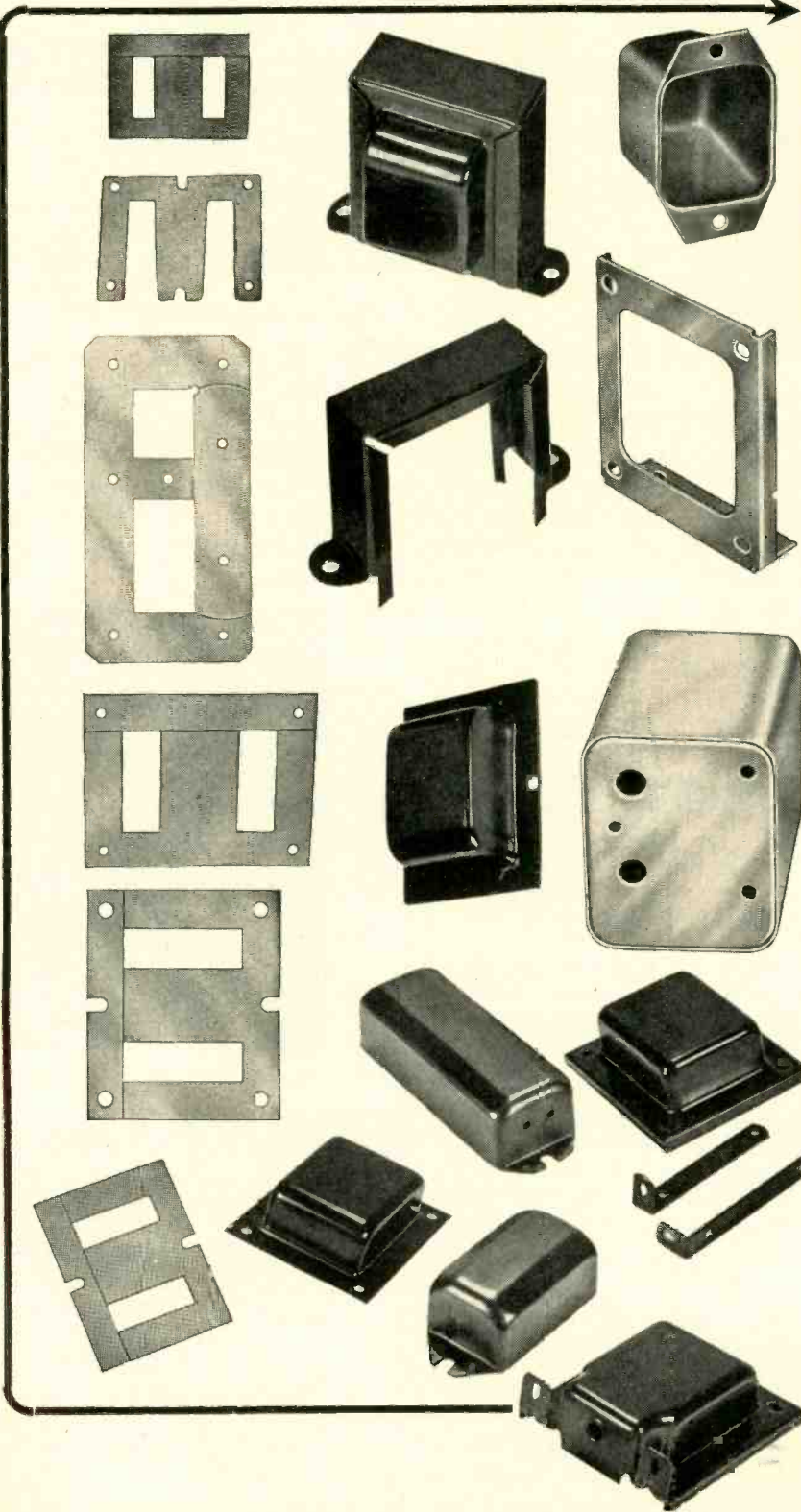
INTO YOUR QUALITY PRODUCTS . . .

STANDARD OR SPECIAL TYPES

IMMEDIATE DELIVERY

FROM STOCK

- LAMINATIONS
- COVERS
- CHANNEL FRAMES
- HOUSINGS
- METAL STAMPING PARTS



• If any of the many Kobzy Standard Products meets your requirements for television or other electronic purposes, we can give you immediate delivery. If special parts are wanted we are geared to give you prompt cooperation and there will be no delays.

You'll find that this organization produces that all important quality. We meet your definite specifications in specially designed parts. Get the benefits that come from an experienced, modernly equipped organization that has worked closely with engineers and designers in the radio and electronic industries for years.

Keep a copy of the Kobzy Catalog handy for reference. If you don't have one send for your copy.

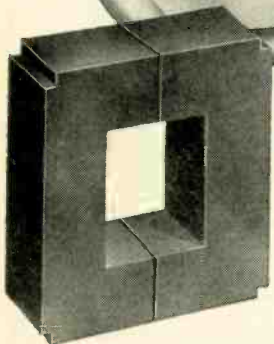
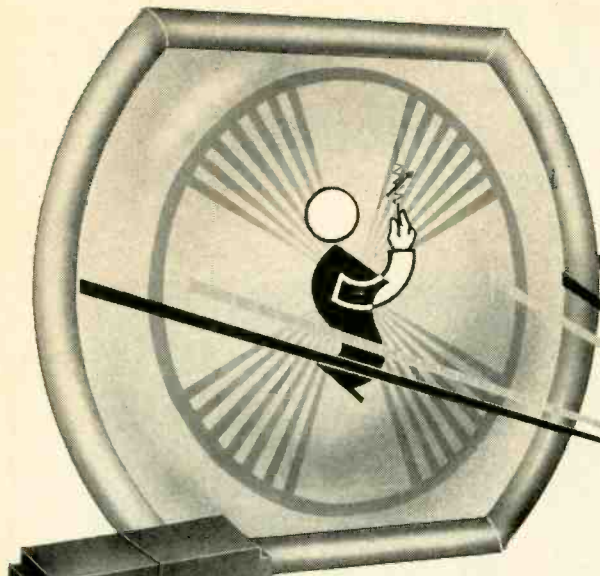


**KOBZY
TOOL CO.**
1539 DAYTON ST.
CHICAGO 22, ILLINOIS

STACKPOLE

ELECTRICAL AND ELECTRONIC COMPONENTS

Ceramag IRON CORES



TV FLYBACK TRANSFORMER TYPES

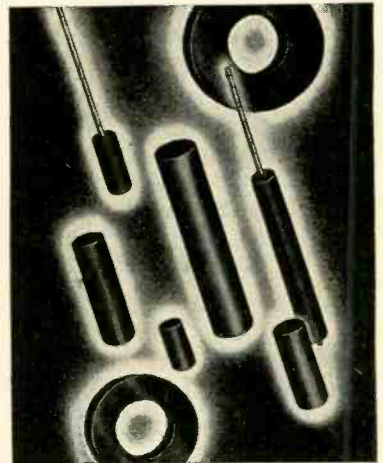
Many times the permeability in HALF THE USUAL SIZE

Permeability on the order of 10 to 1 by comparison with conventional iron cores for flyback transformer applications is readily possible with the new Stackpole Ceramag types. In addition, Ceramag cores are much smaller, have higher resistance, and operate cooler due to the absence of eddy current losses.

TV WIDTH CONTROL TYPES

... 37% more effective!

Molded of a unique ceramic material having exceptionally high permeability, Stackpole Ceramag iron cores bring new, higher standards of efficiency to television horizontal image deflection circuits. In screen areas where there is a sudden voltage drop, Ceramag cores give ratios of from 1 to 8 or more compared with 1-5 for conventional high permeability types. Write for complete details and samples.



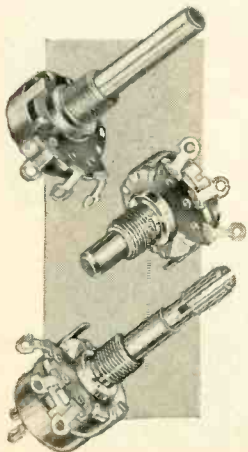
STANDARD AND SPECIAL IRON CORES

The rapid increase in the use of molded iron cores throughout electronic engineering has resulted in large part from Stackpole engineering that has made new and improved types available in a wide assortment

of shapes, sizes and ranges. Special Stackpole manufacturing techniques assure cores of outstanding dependability for exacting specifications. Write for details on any type.

- | | |
|-----------------------------------|----------------------------|
| STANDARD AND HIGH-FREQUENCY TYPES | SIDE-MOLDED CORES |
| HIGH-RESISTIVITY CORES | IRON CORES FOR CHOKE COILS |
| IRON SLEEVE CORES | INSULATED CORES |
| THREADED CORES | CUP CORES |
| MOLDED COIL FORMS | CERAMAG® CORES |

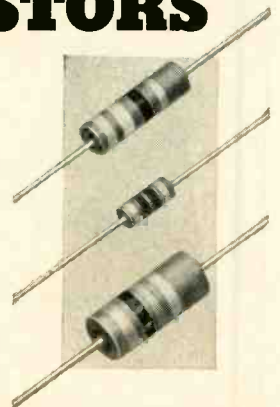
FIXED AND VARIABLE RESISTORS



Stackpole variable resistors are made in a complete, fully tested and proved line for modern television, radio and other electronic requirements. Economically produced in large quantities by modern methods, each unit is backed with many years of specialized experience in meeting the specifications of leading equipment manufacturers. Recent types include many special controls, including dual concentric shaft

controls and other types for specific television uses.

Stackpole fixed resistors of molded carbon composition are available in ½-, 1- and 2-watt sizes in all standard ranges. Tolerances, insulation, moisture and overload characteristics match today's exacting specifications. Special resistors include capacitor discharge, protective surge, lightning arrester, ignition suppressor and other types.



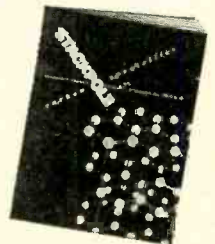
**HUNDREDS of STANDARD
ITEMS . . . thousands
of "Specials"**

Write for details on any type

- Anodes • Battery Carbons
- Bearing Materials
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- Brushes of all types for rotating electrical equipment
- Carbon and Graphite Contacts
- Chemical Carbons • Clutch Rings
- Dash Pot Plungers
- Electric Furnace Heating Elements
- Electrolytic Anodes • Friction Segments
- Glass Molds • Ground Rods (carbon)
- Mercury Arc Rectifier Anodes
- Metal-Graphite Contacts
- Power Tube Anodes
- Rail Bonding Molds
- Rare Metal Contacts
- Resistance Welding and Brazing Tips
- Seal Rings (for gas or liquid)
- Special Molds and Dies
- Spectrographite No. 1
- Trolley and Pantograph Shoes
- Voltage Regulator Discs
- Water Heater and Pasteurization Electrodes
- Welding Carbons
- Welding Plates and Paste

CARBON-GRAPHITE SPECIALTIES

The unique electrical, mechanical, physical and chemical properties of Stackpole carbon, graphite and molded carbon-graphite products solve countless problems of friction, temperature, arcing, corrosion, shaft sealing, voltage regulation and others. So broad is the line of Stackpole products in this field, so extensive the facilities for "specials" that it is practical to list only a few of them here. Stackpole engineers welcome the opportunity to assist in adapting any of these products to your specific design, engineering or production requirements.



GET THIS DATA BOOK! Stackpole Booklet 40 contains a wealth of helpful data on carbon, graphite and carbon-graphite engineering uses. Write on company stationery.

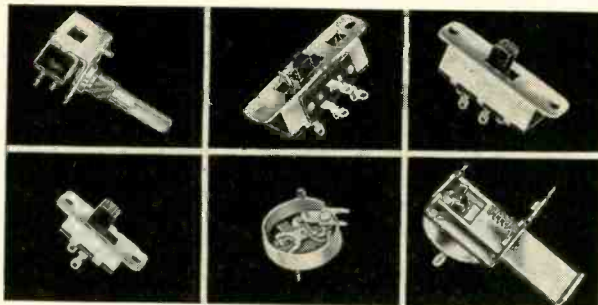


LINE SWITCHES for Stackpole Controls

Only .888" in diameter by .312" thick, the Stackpole A-10 DP ST line switch fits even the smallest Stackpole variable resistor controls. Rated 1 amp. 250 volts AC-DC or 3 amps. 125 volts it combines outstanding ruggedness with ample-sized contacts and positive contact wiping action. Ideal for long, trouble-free service for portable and auto radios and numerous other uses. A similar single-pole design, Type A-11, with or without dummy terminal will soon be available.

OPEN

CLOSED



INEXPENSIVE LINE AND SLIDE SWITCHES including new 3 amp. types

Dress up your product—add to its convenience and "saleability" with these sturdy, low-cost switches! 18 fractional amperage and new 3 amp. types are available. Modifications can be produced economically for quantity users. Write for Switch Bulletin RC7C. State details of your application for samples.



SEND FOR COMPLETE DATA

Catalog RC7 listing the complete line-up of Stackpole Electronic Component Specialties will gladly be sent on letterhead request. Write for your copy today.

STACKPOLE SPECIALTIES

TINY GA CAPACITORS

Stackpole GA Capacitors cost no more than "gimmicks" and assure far greater stability, higher Q, better insulation resistance and higher breakdown voltage. Moreover, they are mechanically superior and eliminate the inductive characteristic of twisted wires. Capacities of 0.5; 0.68; 1.0; 1.5; 2.2; 3.3 and 4.7 mmfd. are available. $\pm 20\%$ tolerance.

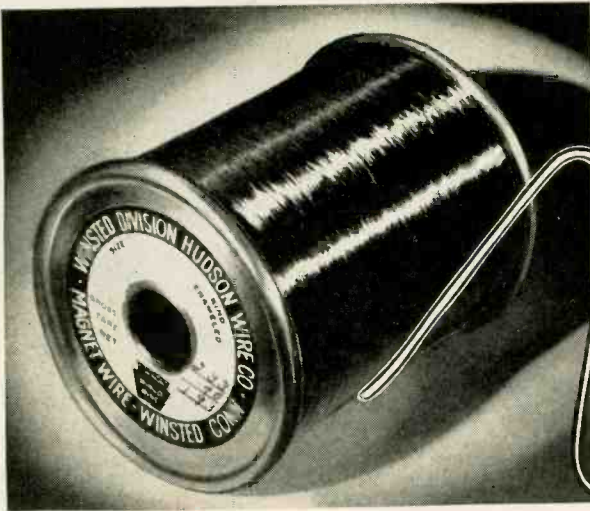
BAKELITE COIL FORMS

Stackpole molded coil forms are the modern answer to the need for inexpensive mechanical supports for windings. Cost is low, space factor is reduced, assembly is easier and point-to-point wiring is feasible with far fewer soldered connections. Write for details and samples to your specifications.



STACKPOLE

Electronic Components Division
STACKPOLE CARBON COMPANY, ST. MARYS, PA.



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CUSTOM-DRAWN AND INSULATED

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Hudson Wire Company specializes in fine wires custom-drawn and insulated to your critical requirements as to size, material, insulation. Your consideration is called particularly to the finest wire sizes—Nos. 44 to 50 or .0020 to .0010 nominal bare, and .00225 to .0012 nominal enamel.

BARE WIRES (HUDSON WIRE DIVISION)

Copper	Silver-plated
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Tinsel	Silver
Tin	Monel
Nickel-silver	Specialty Wires
Cadmium	Lead Wire
Oxygen-free Copper	Fuse Wire

ENAMELED WIRES (WINSTED DIVISION)

MATERIALS	TYPES	COVERINGS
Copper	Instrument	Plain and Heavy Enamel
Aluminum	Tubing	Formvar
Resistance Alloy	Litz	EZsol (Liquid Nylon)
Iron	Twisted	Cement-coated Enamel
Copper-clad Steel		

TEXTILE-COVERED WIRES (WINSTED DIVISION)

Nylon	Cotton
Celanese	Rayon
Silk	Fiberglas

All available on bare or enameled wire, single or double covered.

• LET US WORK WITH YOU

IN MEETING YOUR REQUIREMENTS

LITERATURE ON REQUEST



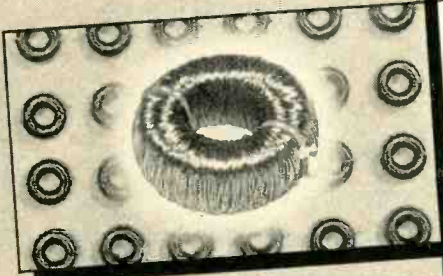
HUDSON WIRE COMPANY



BARE WIRES GENERAL OFFICES: OSSINING, N.Y. • WINSTED DIVISION: WINSTED, CONN. INSULATED WIRES



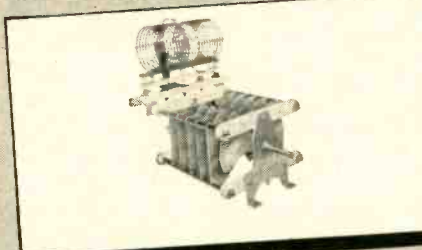
QUALITY LINE FOR...



COILS—TOROIDS: with maximum inductance and high Q in a minimum of space • AIR-WOUND INDUCTORS: handling power inputs from zero to 1000 watts ... available with fixed, center, end or variable center links. MININDUCTORS: in sizes as small as 1/2" in dia. TURRET ASSEMBLIES: for powers of 25 to 150 watts ... covering the 160 to 10 meter bands • Single layer solenoid coils • Universal wound coils of single, multiple pie, and progressive construction • RF, IF, and Oscillator Coils • Traps, Discriminators, RF, and Delay Line Chokes, fabricated to your specifications.



FILTERS—HIGH PASS • LOW PASS • BAND PASS • BAND SUPPRESSION OR REJECTION • For use in RF or audio filtering ... for line RF suppression ... for harmonic attenuation ... for teletype communications ... for single side band and telemetering equipment. Each designed, built, and proved to offer a combination of accuracy and ruggedness under the most severe operating conditions.



VARIABLE CAPACITORS—of distinctive B&W butterfly design, offer features not available in conventional types. Opposed stator sections provide short RF paths. Permit mounting coil assembly directly on stator sections, completely eliminating closed circuit wiring. Available in two types: CX Heavy Duty unit with up to 1/2" Air Gap; JCX Medium Duty type with 1/4 the frontal area of the above type and having 1/8" Air Gap.



TEST EQUIPMENT—AUDIO OSCILLATOR: for low distortion source of freqs. between 30 and 30,000 cycles. DISTORTION METER: will check fundamentals from 30 to 15,000 CPS measuring harmonics to 45,000 cycles ... residual noise is less than .025%. FREQUENCY METER: for frequencies up to 30,000 cycles. Operates on any wave form with peak ratio under 8 to 1. SINE WAVE CLIPPER: speeds analysis of audio circuits ... simplifies selection of components at fractional cost of square wave generator.



SPECIAL APPARATUS—Complete systems of VHF radio relay equipment, mobile frequency shift radio teletype equipment, and point-to-point frequency shift radio teletype—including low, medium, and high power transmitters ... high power RF amplifiers ... frequency shift radio teletype exciters, dual diversity, and single channel radio teletype receiver converters ... control units ... direction finding equipment—to answer the communication needs of governments and commercial organizations the world over.

FULL DETAILS ON ANY OF THE ABOVE PRODUCTS ARE AVAILABLE IN B&W FREE BULLETINS AND CATALOGS. WRITE DEPT. EY-60.

BARKER & WILLIAMSON, INC.

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UPPER DARBY, PENNA.

For Fast, Low-cost Assembly

—Use these

PALNUT

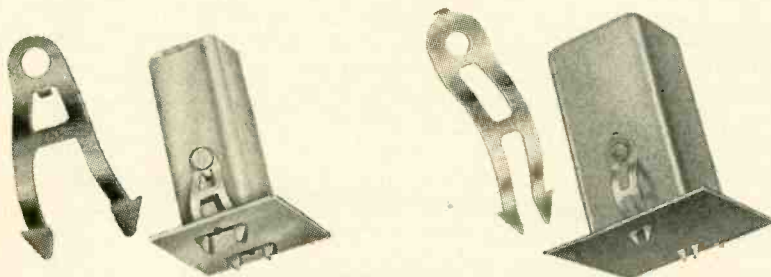
TRADE MARK

Vibration-proof Fasteners

PALNUT SHIELD CAN FASTENERS

No. 702 for miniature cans

No. 591 for 1" square or larger



★ Strong, positive grip ★ No tolerance problem ★ Low assembly cost

A quick snap of PALNUT Shield Can Fasteners into the chassis provides a secure job, speedily assembled at low cost. Live spring arch holds can tightly

against chassis; will not pull out unless deliberately released. Good ground contact. Use on any chassis thickness.

PALNUT COIL TUBE FASTENERS for .283" and .375" O.D. Tubes



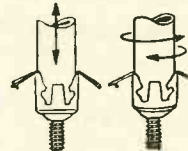
(Above) For threaded studs



(Above) For threaded cores

A QUICK, LOW-COST, EFFICIENT MEANS OF MOUNTING COILS TO CHASSIS OR TERMINAL BOARD. DOES THREE JOBS AT ONCE:

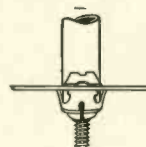
1. Thread design eliminates axial motion of core, maintains accurate settings. Tension is smooth, with negligible thread wear.



2. Gripping points allow easy insertion of tube, then grip with maximum resistance to rotational torque and "pull out".



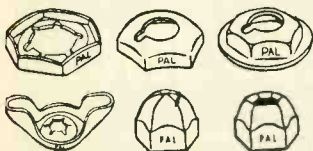
3. Resilient side arms yield to clear mounting hole in chassis; once clear, arms snap open, securely holding coil in mounted position.



Write on Company letterhead for samples and engineering data.

THE PALNUT COMPANY

77 Cordier Street,
Irvington 11, N. J.



PALNUT SELF-LOCKING
NUTS and FASTENERS

for quick, secure fastening at low cost

REFERENCE SHEET SECTION

A popular feature of **ELECTRONICS** since its first issue has been its Reference Sheets... pages that constitute graphical and tabular shortcuts for engineers who design, produce, install and maintain electronic equipment.

21 of these sheets that have proven generally useful over the years are presented again in this book. Many of these have been revised and brought up-to-date. In addition, a complete index of all the engineering Reference Sheets that have appeared in **ELECTRONICS**, since its first issue April 1930, is included in this book.

electronics BUYERS' GUIDE

THE 13th ISSUE OF
ELECTRONICS

BETA HIGH VOLTAGE POWER SUPPLIES

200 to 250,000 VOLTS DC
10 μ a to 10 AMPERES
REGULATED OR
UNREGULATED

Special features as required

Standard products include:

KILOVOLTMETERS:

Up to 50 KV at 50,000 ohms per volt.
20 μ a drain. Higher drains up to 150 KV.

PORTABLE POWER SUPPLIES:

Adjustable from 0 to 30 KV DC. Regulated or unregulated units available.

PORTABLE PROJECTION OSCILLOSCOPES:

Case—19" x 16" x 13"; Picture—16" x 12".

AND OTHER ELECTRONIC
MEASURING EQUIPMENT

Send for product literature, and our High Voltage DC Power Supply specification booklet for your special High Voltage Power Supply requirements.

Field Engineers throughout the country are at your service to discuss our products more thoroughly with you.



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has earned
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for all types of
electronic and allied products
. components and
complete equipment

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tells who has what
in production or available in
a reasonable time and unre-
stricted for general indus-
trial use.

electronics
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GUIDE

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The NEW Soundcraft
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recording tape now in pro-
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TEST EQUIPMENT

Model 184C



\$853.00
Net

INSULATION TESTER

For accurate insulation resistance, dielectric absorption, and hi-pot testing over variable range 50 to 10,000 v. DC. Four current ranges: 30, 150, 300 and 1500 microamperes allow sensitive readings for particular requirement, plus sufficient output for quick charging of high capacities. Measures resistances from 0.1 to 50,000 megohms. Constant output voltage regulated to 1/2%.

Neon lamp indicates breakdown and guards meters against overload. Automatic relay removes residual capacitance charges. Limiting resistors protect power supply. Local and remote line switch operation. Polarity reversing switch. Guard circuit connection. Oak case, brass hardware, all cables supplied. Weight 60 lbs. Operates from 115 v., 60 cycles, 65 watts.

RF PROBE

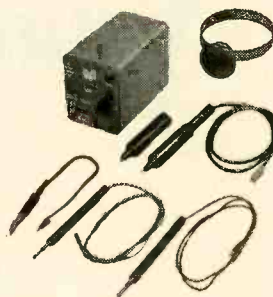
Indicates presence and relative strength of RF from 200 kc. to 500 mc. For adjusting antennas and transmitters, neutralizing RF amplifiers, eliminating harmonic radiation, servicing chokes and oscillators, detecting parasitics, determining standing wave ratios. No tuning required. Insulated handle for safety in high voltage circuits. Weston 506 meter.

Model 200A



\$19.50
Net

Model 416



\$64.50
Net

SIGNAL TRACER

Smallest unit available. New design contains special Weston output meter, calibrated attenuator measures gain from 1 to 10K, jacks for 'scope or VTVM, pilot light, AF and RF probes, test leads, ground lead, power cord and headphones. Size 5 3/4 x 3 1/2 x 3. Weight 2 lbs. Operates on 115 v., 50-1600 cycles, 7 watts. Frequency range:

47 cps. to 400 mcs.

AF sensitivity:

0.002 v. audible.

0.004 v. at 1/2-scale.

RF sensitivity:

0.005 v. modulated 50%.

0.05 v. modulated 50%
1/2-scale.

Distortion:

<1% at 100 cps.

<1/2% at 10 kc.

Output at 'scope—VTVM jack > 2 volts for full scale meter reading.

OHM-BOX

A new tool combining resistance decade and substitution box. Choice of twelve million resistance values in bakelite box 4 1/2 x 4 3/8 x 3/4. Any single value or combination, in series or parallel, quickly set up with 8 double-ended patch cords and 4 leads supplied. Non-inductive JAN resistors rated at 2 watts, ±5%. One ohm to 12 megohms.

Model 415



\$17.50
Net

OTHER RFL PRODUCTS

Model 107



\$490.00
Net

MAGNET CHARGER

Condenser discharge type. Charges any shape or kind of magnet saturable with 15,000-ampere peak charging current. Accessory Model 206 Booster increases charging current above 20,000 amps. Special adapters for all standard instruments and many odd shapes. Operation is safe, simple, swift. 115 v., 60 cycles, 25 watts. Size 7 x 12 x 17. Weight 75 lbs.

Type H-1267



Type H-1268



Type H-2475



SEALNUTS

Sealing and mounting nuts for toggle, rotary shaft and push-button switches. Seal out dirt, moisture, fumes. Protect from adverse weather. Neoprene caps flexible below -40°C. Nuts are nickel plated brass. Approved by Government services. Types H-1267 and H-2475 fit 1 1/2-32 thread, type H-1268 fits 3/8-32 thread. Positive protection at low cost.

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217 Whitehall St. S. W.
Boston 16 Cowperthwait and Brodhead
131 Clarendon St.
Buffalo 3 Schiefer Electric Co., Inc.
527 Ellicott Square
Charlotte 12 Ranson, Wallace & Co.
116 1/2 East Fourth St.
Chicago 6 George Pettit Company
549 W. Washington Blvd.

Cincinnati 37 Beedle Equipment Co.
Roselawn Center Building
Cleveland 14 Ambos-Jones Company
1085 The Arcade
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4949 Colorado Blvd.
Detroit 2 T. S. Cawthorne
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Houston Lynn Elliott Co.
322 M & M Bldg.
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Pittsburgh 22 Russell F. Clark Co.
1404 Clark Bldg.
Rochester 4 Schiefer Electric Co., Inc.
311 Alexander St.
San Francisco 5 H. E. Held
120 Main St.
Seattle 4 Eicher & Company
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St. Louis 1 C. B. Fall Co.
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204 State Tower Bldg.
Tulsa 1 Riddle & Hubbell
211 Midco Bldg.

Field Engineering Office: Electronic Engineering & Service Co., 1624 Eye St. N. W., Washington 6, D. C.

All prices are f.o.b. Boonton, N. J. subject to change without notice.



RADIO FREQUENCY LABORATORIES INC.

Boonton 2, New Jersey

Right: Truscon Guyed Radio Tower rises 938 feet above the Oklahoma plain, with a General Electric 8-bay circular FM antenna and its beacon, for KOCY-FM, Oklahoma City, Oklahoma

938 FEET

336 FEET

485 FEET

Above: Truscon Self-Supporting Steel Radio Tower, operated by WMRI-FM, Marion, Indiana, lifts its Collins 8-ring side-mounted antenna 336 feet into the Hoosier sky.

Above: This Truscon Self-Supporting Tower meets FM and TV needs for WRV3, Richmond, Va. It mounts both an R.C.A. 2-section pylon FM antenna and an R.C.A. 6-section TV antenna.

Below: WSAR, Fall River, Mass., uses four Truscon Guyed Steel Radio Towers, each 329 feet high.

Below: Rising to an overall height of 425 feet, this Truscon Type H-30 Self-Supporting Tower is topped with an 8-bay General Electric antenna. It is operated by WEXL-FM, Royal Oak, Mich.

TRUSCON
TOWERS
OF
STRENGTH
STANDARD OF THE WORLD

329 FEET

425 FEET

Left: These new 1220-foot Towers, designed and engineered by Truscon, are the world's tallest radio towers.

1220 FEET

Up they go . . . more and more Truscon Radio Towers . . . strong, sturdy steel fingers setting new high standards of antenna performance . . . reaching far out to serve audio and video broadcasters and their audiences everywhere.

The six new towers shown here vary from 329 feet to a lofty 1220 feet, yet all have one characteristic in common—each is designed to meet exactly the particular operating and geographical needs of its specific location. Truscon draws upon a background of world-wide experience to engineer and erect exactly the tower you need—tall or small . . . guyed or self-supporting . . . tapered or uniform in cross-section for AM, FM and TV transmission. Your phone call or letter to any convenient Truscon district office, or to our home office in Youngstown, will bring you immediate, capable engineering assistance. Call or write today.

TRUSCON
SELF-SUPPORTING
AND UNIFORM
CROSS SECTION GUYED **TOWERS**

COPPER GROUND SCREEN

TRUSCON STEEL COMPANY
YOUNGSTOWN 1, OHIO
Subsidiary of Republic Steel Corporation



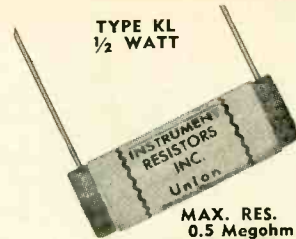
TYPE ALA
3 WATT

MAX. RES.
25,000 ohms
3/8" dia. 1 1/8" long



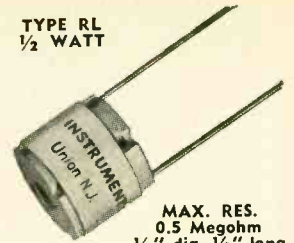
TYPE LL
1/4 WATT

MAX. RES.
0.2 Megohm
5/8" dia. 1/4" long



TYPE KL
1/2 WATT

MAX. RES.
0.5 Megohm
3/8" dia. 1-3/16" long



TYPE RL
1/2 WATT

MAX. RES.
0.5 Megohm
1/2" dia. 1/2" long



TYPE BLA
6 WATT

MAX. RES.
50,000 ohms
3/8" dia. 1 1/2" long



TYPE WLA
1 WATT
INDUCTIVE*

MAX. RESISTANCE
331 Alloy 15,000 ohms
Nichrome 8,000 ohms
Manganin 2,500 ohms

BODY SIZE
3/16" dia. 1" long

TOLERANCE
Standard—1%

*WLAN 3/8 (NON-INDUCTIVE)
50% LOWER MAX. RES.



TYPE WLA
3/8-1/2 WATT
INDUCTIVE*

MAX. RESISTANCE
331 Alloy 7,500 ohms
Nichrome 4,000 ohms
Manganin 1,250 ohms

BODY SIZE
3/16" dia. 3/8" long

TOLERANCE
Standard—1%

*WLAN 5/8 (NON-INDUCTIVE)
50% LOWER MAX. RES.

CUSTOM BUILT RESISTORS

INSTRUMENT RESISTORS COMPANY builds resistors to your specifications for special applications. All are produced to close tolerance to meet any unusual custom requirements. IN-RES-CO can supply wire-wound resistors in large or small quantity to practically any electrical and mechanical specification on short notice. Inquiries are invited and quotations will be supplied upon receipt of specifications and information regarding quantity desired.

IN-RES-CO

A COMPLETE LINE OF HIGH ACCURACY

IN-RES-CO high quality wire wound resistors are designed to meet the need of the Electronic and Instrumentation industries with dependable resistors of closer tolerances, proven performance and practical cost. Instrument Resistors Company, through constant expansion of its facilities and continuous modernization, keep pace with the wire wound resistor requirements of all phases of the electrical field. Consequently, the equipment manufacturer can obtain IN-RES-CO wire wound resistive components at prices fully reflecting the economy of mass production and built to a standard of quality that can only result from exclusive specialization in the manufacture of these products.

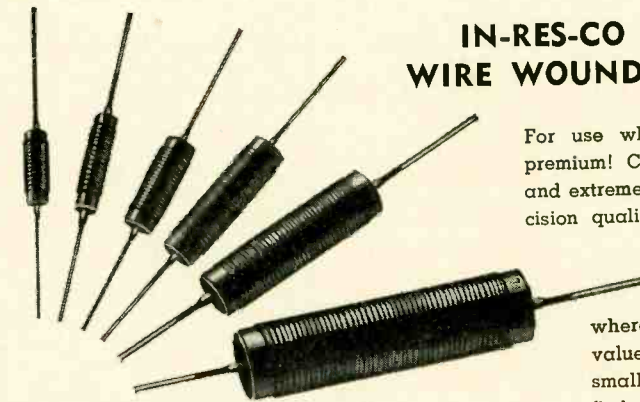
IN-RES-CO TYPE IR WIRE WOUND RESISTORS

For use where space is at a premium! Combining midget size and extremely low cost with precision quality and performance.

IN-RES-CO TYPE

IR resistors meet all requirements

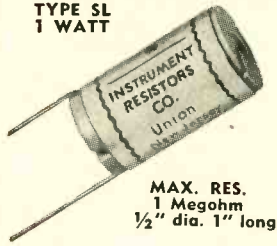
where precision resistance values and exceptionally small size must be satisfied at lowest possible cost. Although no larger than molded resistors, type IR units are wire-wound to a standard tolerance of $\pm 1\%$ and maintain this accuracy throughout their life. They withstand rough usage and intermittent over-load in continuous service.



Type	Max. Res.*	Max. Watts	Body Dia.	Body Length	Leads
IR-107	1200	1/8	7/64"	3/8"	.025" x 1-1/2"
IR-125	2500	1/4	1/8"	1/2"	.025" x 1-1/2"
IR-156	3500	1/2	5/32"	1/2"	.028" x 1-1/2"
IR-187	6000	1	3/16"	3/4"	.028" x 1-1/2"
IR-250	12000	2	1/4"	1"	.035" x 1-1/2"
IR-375	28000	5	3/8"	1-1/2"	.040" x 1-1/2"

*Maximum resistance using .00135" dia. wire. Higher ohmic values can be furnished using smaller wire.

TYPE SL
1 WATT



MAX. RES.
1 Megohm
1/2" dia. 1" long

TYPE P-4
1 WATT



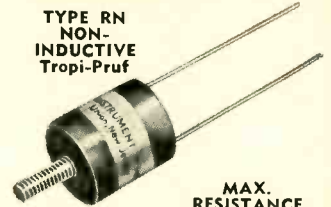
MAX. RES.
1.0 Megohm
9/16" dia. 1" long

TYPE P-2
1/2 WATT



MAX. RES.
300,000 ohms
9/16" dia. 9/16" long

TYPE RN
NON-INDUCTIVE
Tropi-Pruf



MAX. RESISTANCE
331 Alloy 500,000 ohms
Nichrome (R) 400,000 ohms
Manganin 15,000 ohms
TOLERANCE
0.5% standard to 0.1% at slightly higher cost

TYPE RX
NON-INDUCTIVE
Tropi-Pruf



MAX. RESISTANCE
331 Alloy 500,000 ohms
Nichrome (R) 350,000 ohms
Manganin 30,000 ohms
TOLERANCE
0.5% standard to 0.1% at slightly higher cost

TYPE CX
1/2 WATT
Non-Inductive



MAX. RESISTANCE
331 Alloy 750,000 ohms
Nichrome 500,000 ohms
Manganin 15,000 ohms
BODY SIZE
9/16" dia. 3/8" long
TOLERANCES
Standard—1%
SPECIAL—TO 1/10%

TYPE BX
1 WATT
NON-INDUCTIVE



MAX. RESISTANCE
331 Alloy 1.5 Megohm
Nichrome 1.0 Megohm
Manganin 30,000 ohms
BODY SIZE
9/16" dia. 1" long
TOLERANCES
Standard—1%
SPECIAL—TO 1/10%

RF CHOKE COILS

INSTRUMENT RESISTORS COMPANY specializes in the manufacture of RF choke coils wound to any specified inductance and Q value. Coils in this category are precision wound on ultra-modern winding equipment that insures finest product quality at lowest cost. IN-RES-CO is equipped to supply units of these types or others, including hermetically sealed units, in large or small quantity to exact specification. For prompt quotation on your requirements, call or write outlining specifications and quantity.

APPLICATION-DESIGNED WIRE WOUND RESISTORS

RESISTIVE COMPONENTS FOR EVERY NEED

IN-RES-CO wire wound resistors offer the circuit designer a new opportunity to meet increasingly critical requirements. The IN-RES-CO line is complete—resistance ranges from .01 ohm to several megohms; power ratings from a fraction of a watt to 10 watts. Special units are included for counteracting high humidity, fungus, space limitations, temperature rise, etc. Units can be supplied either inductive or non-inductive, wound with Nichrome, Manganin or 331 Alloy. For complete data, send for the new IN-RES-CO catalog.



IMPORTANT ANNOUNCEMENT!

THE NEW IN-RES-CO LINE OF MINIATURE and SUB-MINIATURE RESISTORS

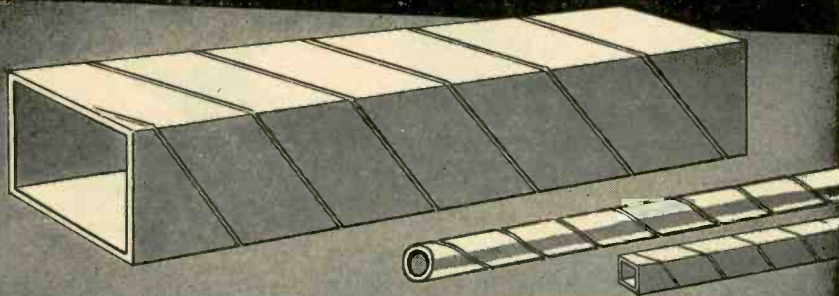
IN-RES-CO announces a NEW LINE of MINIATURE and SUB-MINIATURE RESISTORS, to meet demand for a resistor of close tolerance and high resistance, yet small enough to meet limited space requirements in the new trend toward reducing size of electronic equipment. Due to space limitations it would be impossible to list all types available. However, our catalog lists all new items plus our standard and special line of resistors. See the IN-RES-CO catalog before designing that new equipment. You are sure to find just the resistor you require. If you can't find it there it isn't being made—but we can make it.

INSTRUMENT RESISTORS COMPANY

1036 COMMERCE AVENUE  UNION, NEW JERSEY

MANUFACTURERS OF WIRE WOUND RESISTORS FOR EVERY ELECTRICAL AND ELECTRONIC NEED

Over 1000 Sizes



PARAMOUNT SPIRAL WOUND PAPER TUBES

**SEND FOR ARBOR LIST
OF OVER 1000 SIZES**

Convenient, helpful listing of over 1000 stock arbors. Includes many odd sizes of square and rectangular tubes. Write for Arbor List today. No obligation.

**Square • Rectangular • Triangular
Round and Half-Round**

With a wide range of stock arbors . . . plus the specialized ability to engineer special tubes . . . PARAMOUNT can produce the exact shape and size you need for coil forms or other uses. *Hi-Dielectric, Hi-Strength, Kraft, Fish Paper, Red Rope*, or any combination, wound on automatic machines. Tolerances plus or minus .002". Made to your specifications or engineered for YOU.

Inside Perimeters from .592" to 19.0"

PARAMOUNT PAPER TUBE CORP.

616 LAFAYETTE ST., FORT WAYNE 2, IND.

Manufacturers of Paper Tubing for the Electrical Industry

a **+** value for industry
Development and Production of

SPECIAL PURPOSE VACUUM TUBES BY ECLIPSE-PIONEER



TT-1 3000 mc Temperature Limited Noise Diode Tube.



Y-Type Position Convectron—Vertical Sensing Tube.



Chronotron Thermal Time Delay Tube.

We're not in the standard vacuum tube business. But we are definitely in the business of developing and manufacturing special purpose vacuum tubes — tubes that are not generally available. During the past three years, for example, our facilities have produced, such devices as the Chronotron thermal time delay tube, the Convectron* vertical sensing tube, the TT-1 3000 mc temperature limited noise diode tube, counter tubes, glass enclosed spark gaps, and phono pickup tubes. Quantities of all these are now serving many phases of industry in a wide variety of applications. We invite your use of our facilities to develop and produce your requirements of special purpose vacuum tubes. Your inquiries concerning the scope of our facilities or details of any of our tubes will be given immediate attention.

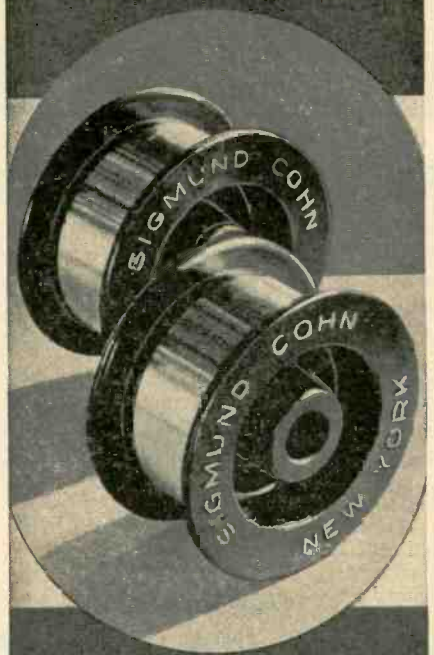
*REG. U.S. PAT. OFF.

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The Complete Line of FREQUENCY STANDARDS

18 DIFFERENT STANDARD MODELS



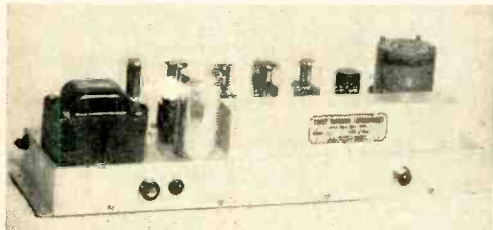
Model-52

Model 52 is our basic unit. It is built on a mounting plate $4\frac{1}{2} \times 9$ inches. It is comprised of a quartz crystal, a 6SJ7 crystal drive tube and two 6SN7GT frequency divider tubes. By this arrangement a crystal frequency in the neighborhood of 100 K.C. can be divided down to 50 or 60 cycles. The output from the last oscillator stage is sufficient to drive a pair of 6V6's or similar power output tubes. The wave shape is good enough when, for instance, the object with the amplifier output is to drive a motor or some similar purpose. If a sine wave—or approximate sine wave—output is desired one would have

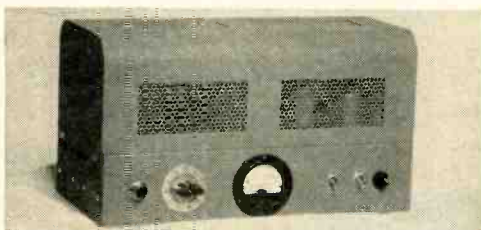


Model-56

to use Model 54 (picture not shown) which has an output tube and an output transformer. The output from that unit is sufficient to drive almost any type of power amplifier or thyatron inverter. Size of mounting plate $4\frac{1}{2} \times 11\frac{1}{2}$ inches. Models 56 and 58 have the same electrical characteristics as Model 54. The difference in construction is called for by the fact that Model 56 is built to JAN specifications; and Model 58 was approved for a certain application for The Army Air Force. Size of Model 56 is $6\frac{1}{2} \times 12$ inches—Model 58 is $4\frac{1}{2} \times 11\frac{1}{2}$ inches.



Model 61 is our smallest standard complete with power supply. Power output 3 watts, 115 volts. Chassis $4\frac{1}{2} \times 17$ inches. Model 62 is the same unit built on a mounting plate $4\frac{1}{2} \times 17$ inches.



Model 101-6L6 is a 25-watt frequency controlled amplifier for driving small motors and similar applications. Chassis 7×14 inches; height with dust cover on $8\frac{1}{4}$ inches. Weight 25 pounds. Also an excellent portable.



Model 105 is a frequency standard complete with power supply. It has sine wave outputs (5 volts across 500 ohms) at 100, 10 and 1 K.C. and also at 100 cycles. It has pulse outputs at the same frequencies. These pulses can be used as such or they can be used to generate harmonics in a radio receiver for frequency comparison. The 100 K.C. harmonics are good to over 100 mega-cycles, the 10 K.C. harmonics to about 30 mega-cycles, and the 1 K.C. harmonics can be heard up to 2 mega-cycles. Frequency stability depends on the customers requirements. It may be within better than one part in ten million when adjusted with WWV at intervals.

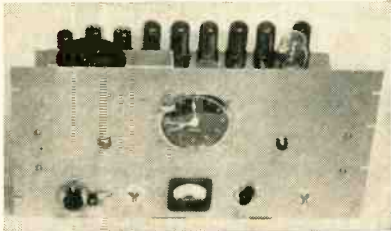


Model 64 is a miniature unit. It is built on a mounting plate $4\frac{1}{2} \times 4\frac{1}{2}$ inches. It will have approximately the same use as model 52.



Model 103

Model 103 has a clock that is in continuous operation and independent of the power amplifier. The power amplifier can be switched on or off according to need; and the output voltage can be varied from zero to 115 volts. The output power is 25 watts. There is also an independent 500 ohm



Model 103P

output (about 8 volts CT) and three high impedance outputs between 15000 and 400 cycles. This unit can be supplied stable within a few parts in ten million. Model 103 also available in standard 19 inch panel—Model 103P.

We supply a complete line of units from our Model 64 miniature type to Model 200-IN 200 watt inverter. At present we have 15 different models of frequency standard units and 3 models of dividers. The dividers are suitable for use with almost any type frequency standard (based on 100 K.C. or nearby frequencies).

WE CAN SUPPLY TIME STANDARDS for SIDEREAL TIME as well as MEAN TIME. AS A RULE WE KEEP A FEW UNITS OF THE MORE POPULAR TYPES IN STOCK FOR IMMEDIATE DELIVERY.

The frequency stability depends on the customers specifications. We use different types of crystals for different requirements. Stability of 1 part in 10 million is obtainable in our units. One observatory that is using our time standards reports that the stability expressed in time is within 3 or 4 milliseconds per day.

Our business is based on two factors. Twenty years of almost uninterrupted specializing in "constant frequency" and a new radically improved type of frequency divider. Space does not allow us to elaborate on the design of the dividers. It may be mentioned that tests (outside our own laboratory) showed several advantages over other types of divider circuits.

Our apparatus are used by many government agencies, commercial firms and institutions. Among them are the National Bureau of Standards (frequency dividers) and the Royal Observatory, Denmark. The Royal Observatory, Denmark is using our time standards for both mean time and sidereal time. Our frequency standards are also used in the new teletype high speed multiplex system.

The output frequency of anyone of our units is optional with the customer and many variations may be made without changing the unit to "non-standard". We shall give only one example. Model 52 is most often sold as a 60 cycle unit. If a customer should want the unit with, for instance, 400 cycle output, only three divider stages are required. Then we use the vacant triode section of the second 6SN7GT as an amplifier; and by means of a sharply tuned circuit we get a sine wave output. The output impedance and output voltage may also be specified by the customer.

It can be seen from the listing of units that we have two different groups of units. One group Models 52, 54, 56, 58 and 64 (Model 62 might be counted in this group) are suitable to be used as sub-assemblies in case the customer wants to build his own power amplifier and power supply. The other group of units are complete with power outputs and power supplies.

A special group of units are also Models 107, 115 and 117. On account of the superiority of our frequency dividers there has been a demand for these units to be used with the new Western Electric high precision frequency standards and also with other frequency standards.

Model 119 is similar to model 101-6L6 and is built on a chassis 6×14 inches; height— $7\frac{1}{4}$ inch. Weight about 15 pounds. Maximum output 10 watts. Was designed to operate at open circuit output, one type B-4 or two type B-4 motors without any adjustments of the volume control. The unit will easily run a ten watt motor such as is frequently used in facsimile transmitters. It is an excellent portable.

Model 35L6 is similar in construction to Model 103 but it operates from 220—240 volts D.C. Output 10 watts.

Model 25L6-1N is also similar to Model 103 but it is built to operate from 115 volts D.C. Output 10 watts. Output tubes 2050 thyatrons. These two units have not got the 500 ohm output or the high impedance outputs unless it is so specified in order.

Model 200-IN is a frequency controlled inverter having 200 watts output. For its operation 115 volts A.C. is required for the control and filament circuits and 220 volts D.C. for the plate of the thyatrons. The 220 volts D.C. can be supplied by a separate rectifier (R-1).

Model 107 is a frequency divider that is suitable for division from 100 K.C. to 10 cycles. Specifications on request.

Model 117 is a frequency divider also suitable for division from 100 K.C. Any type of crystal or frequency standard that has an output from 0.5 to 20 volts can be used with this unit. There are sine wave outputs at 100000, 10000, 1000, 300, 200, 100 and 60 cycles. About 8 amperes 6 volts for the filaments and 60 M.A. (D.C.) at 250 volts must be supplied.

Model 115 is a more elaborate frequency divider that divides 100 K.C. to 20 kc., 5kc, 1 kc, 500 c, 300 c, 250 c, 200 c, 100 c, 50 c and 10 c. A sine wave amplifier and power supply (Model 115A and 115B will also be available.)

We shall be glad to furnish catalog or further information upon request.

ERNST NORRMAN *Laboratories*

Williams Bay, Wisconsin

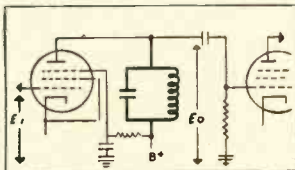


TOROIDAL COMPONENTS

PRECISION TUNED CIRCUITS FOR YOUR SELECTIVE AMPLIFIER

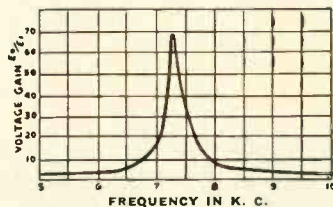


ACTUAL SIZE

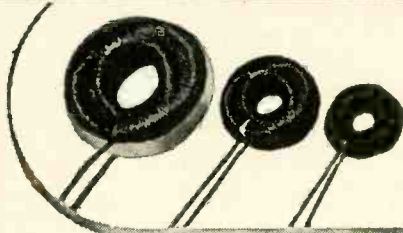


TYPICAL APPLICATION

High Q precision tuned resonant circuits, accurately adjusted to your specified frequency. Toroid coil and capacitor are permanently protected by tough thermosetting plastic. Pig-tail leads and light weight allow direct or terminal board mounting.



CUSTOM MADE TOROID COILS

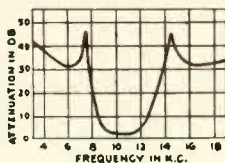


Toroid coils, transformers and discriminators in a large range of inductances, frequencies and power levels. Permalloy dust cores. Uncased, mounted in hermetically sealed cans or coated with thermosetting plastic. Close tolerances with taps at any point. Multiple windings. Up to 2 Henries on wedding ring size. Larger sizes to 50 Henries.

MINIATURE TOROID FILTERS



1½" x 1¼"
x 2" HIGH



Specialized design and complete production facilities for your filter requirements. Where space is critical, miniature filters with wedding ring toroids and special capacitors. Supplied in standard units, or designed to your specification. A miniature band pass filter and curve are shown.

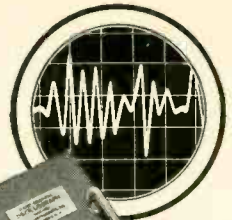
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Company

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shows...



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Oscillograph RECORDS...

- Specifications: 1-2-4 or 6 CHANNELS
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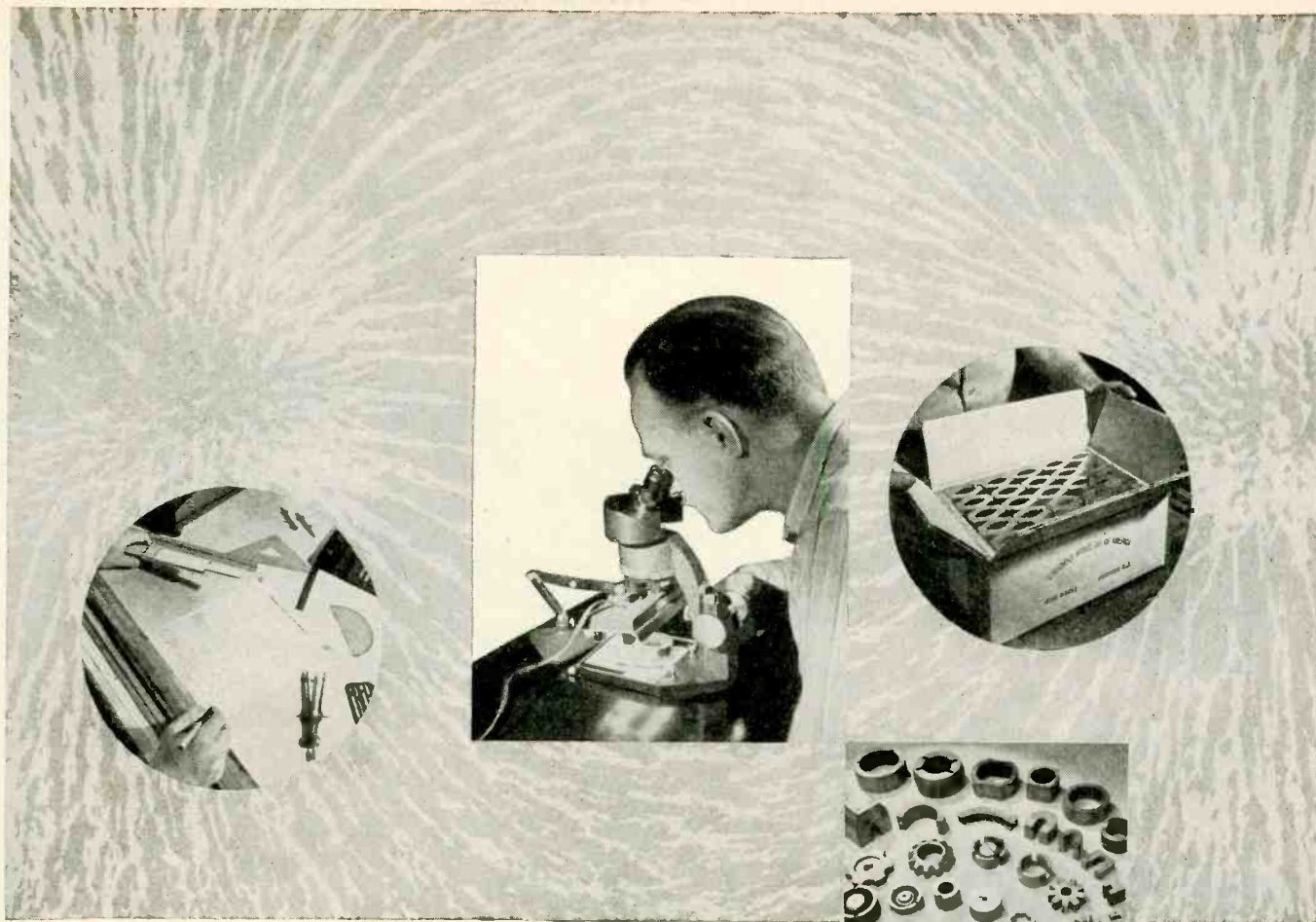
In Addition, this year . . .



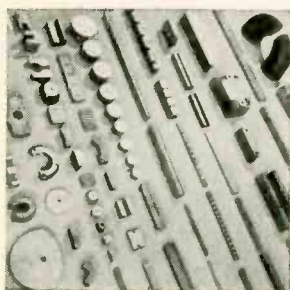
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From the first engineering drawing to the final inspection and shipping, Crucible Permanent Alnico Magnets receive the same careful attention and workmanship that is found in all Crucible specialty steels. Rigid quality control at every step in the production of Crucible Alnico . . . with a keen devotion to detail . . . is the reason that users of Crucible Permanent Alnico Magnets have found that from Crucible they get a better magnet with *higher gap flux per unit weight*.

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that fits
all
Miniature
Tubes

A flexible shield that snugly fits all miniature tubes because it compensates for all variations in tube dimensions. Mini-Shields are made for both T5½ and T6½ bulb tubes. Send for catalog sheet.

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Guard
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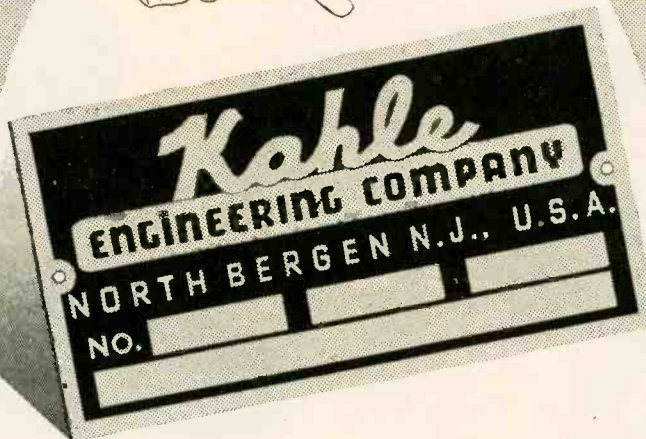
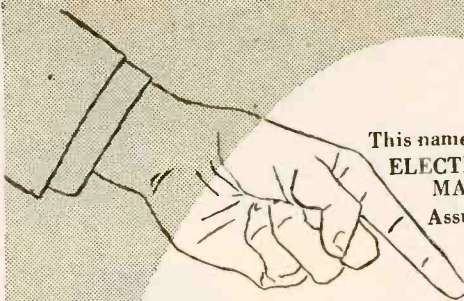


Gives support two ways—Keeps pressure downward and gives sideway support. The spring action is constant and resilient permanently. Send for catalog sheet.



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ULSTER 5-6303

This nameplate on your
ELECTRON TUBE
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Assures Engineering
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THE *Kahle*
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The KAHLE nameplate—our seal of approval—your assurance of trouble-free operation—is

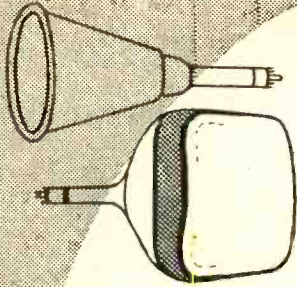
only attached to a machine after it has successfully passed exhaustive tests in our own plant. It signifies custom-built machinery, designed and engineered to do a specialized job with the utmost efficiency—whether it's the manufacture of big 30" TV or sub-miniature tubes—for laboratory or super-speed output.

If your objective is to cut costs and increase productivity, you will find that KAHLE meets all your requirements.

Complete
equipment
for the
manufacture
of:

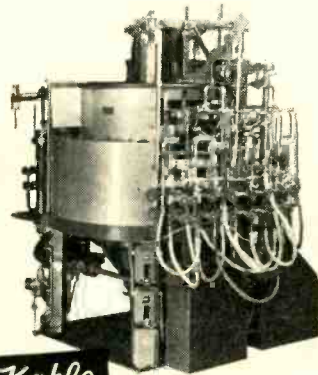
- Cathode Ray Tube (Rectangular and Color, Glass and Metal)
- Standard, Miniature, Sub-miniature Radio Tubes
- Fluorescent and Incandescent Lamps
- Photocells
- X-ray Tubes
- Vacuum (Thermos) Bottles
- Glass Products

Some examples of Kahle equipment for cathode ray tube manufacturing



#1414
Cathode Ray Tube Button Stem Machine

Custom-built to any requirements, turns out 400-500 TV stems per hour—provides fine adjustment of speed, pressure, heat and sequence of operations—with labor-saving development for automatic tubulation flaring.



Kahle



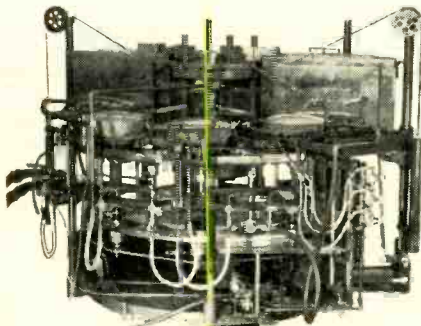
Kahle

#1540
Single Head Automatic Neck Sealing Machine

For sealing necks to metal cones of metal cathode ray tubes. Operator loads, presses start button. All other operations automatic. Capacity 12 per hr. Also available as eight-head automatic machine.

FACE PLATE SEALING

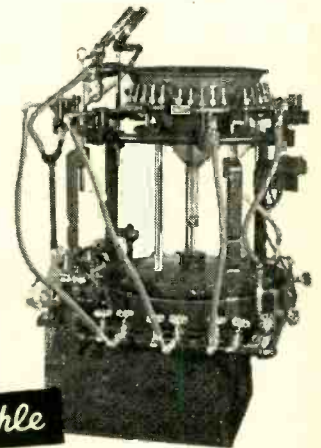
For sealing glass face plates to metal cones of metal cathode ray tubes.



Kahle

#1578
Eight-Head Automatic

Manual loading, unloading. All other operations automatic. Kahle Standard Barrel Cam Index, timer controlled. Dual motor drive. Capacity, 60-90 per hr.



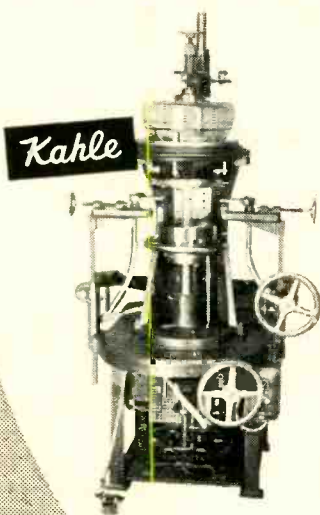
Kahle

#1534
Single Head Automatic

Operations are automatic. Manual loading, unloading, and maintaining inside air pressure.

SALVAGE OPERATIONS

Metal or Glass

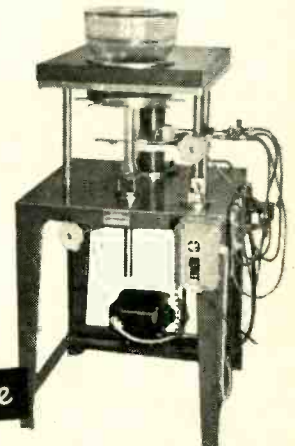


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#1545
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For all types and sizes of cathode ray tubes. Used in salvage, operations—bulb making.

We welcome your consultation. Write for our new catalog



Kahle

#1552
Neck Cutting Machine

For salvaging cathode ray tubes. Produces perfect, clean square cuts. Single head. Cuts off necks by hot-chill technique. Takes all standard sizes of bulbs and necks.



KAHLE ENGINEERING CO.

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NPO—NO80—N750—& others
- DISC CERAMICON®
Styles 811 & 821
- FEED-THRU CERAMICON®
Styles 362 & others
- SILVER BUTTON® MICA CAPACITORS
Styles FA-CB—& others
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we are continuing to supply our customers with "rare" and much needed resistors and J potentiometers in all values—also dual JJ and triple JJ for immediate delivery.

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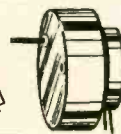
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BRISTOL MOTORS are Designed to Operate in Any Position



The New Bristol Circle B Motor is more adaptable . . . more compact . . . greater torque . . . more dependable.

BRISTOL SYNCHRONOUS TIMING MOTORS:

200 series	400 series
2 watt	4 watt
6 in. ounces at 1 rpm	12 in. ounces at 1 rpm
24, 115, 220 volts	24, 115 and 220 volts.
50 & 60 cycles	50 & 60 cycles

Speed Range: 1 rph to 60 rpm
Clockwise or counterclockwise rotation
Various output shafts available
Complete customer service

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For the facts write:

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130 Bristol Bldg., Old Saybrook, Conn.

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TV
FM
AM

Engineering department enlarged to permit additional cooperation with design engineers.

ALL INQUIRIES WILL RECEIVE PROMPT ATTENTION *

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Millivac Meters Excel in . . . SENSITIVITY • STABILITY • HIGH INPUT IMPEDANCE
MV-17B DC Millivoltmeter: 1 mV full scale to 1000 V. 6-60 megohms input impedance
MV-171 DC Micromicro-Amps: 165 x 10⁻¹² A to 10 A. (Shunt Box used with MV-17B)
MV-18B RF Millivoltmeter: 1 mV to 1000 V. 1 MC to 200 MC Flat, useful to 2,500 MC.
DCA-3 DC Amplifier and Meter: Same sensitivity as MV-17B.

MV-73B: Most complete multi-purpose meter, DC, AC, RF mVs, AC, DC microamperes, ohms.

MILLIVAC INSTRUMENTS

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PHENOLITE

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Laminated PLASTIC

SHEETS • RODS • TUBES • SPECIAL SHAPES

SPECIFICATIONS

ARMY • NAVY • FEDERAL • ASTM

Listed below are the Phenolite grades that meet the Joint Army-Navy Specifications, Federal Specification HHP-256 and ASTM Specification D-709.

The perfect
Insulation
Material
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Phenolite, laminated plastic, has low moisture absorption, is light in weight, with high impact strength, excellent machinability and one of the strongest materials per unit weight known.

JOINT ARMY-NAVY SPECIFICATIONS

Type		CORRESPONDING PHENOLITE GRADE		
JAN or MIL Numbers	17P5 or 17P25 No.	Sheet JAN-P-13 (Army 61-15) (Navy 17P5) MIL-P-997 (Ships)	Molded Tubing-Tm and Rod-R (Army 72-80) (Navy 17P5) JAN-P-79	Rolled Tubing-Tr (Army 72-80) (Navy 17P5) JAN-P-79
LTS-H-1	PBH	A-701	A-85	.....
M-1	....	X-101, X-109	X-12*	X-3, XX-21-H§
M-3	FBI	LE-651-K	LE-76-B	LE-63
M-4	FBM	C-551*, C-509, C-501†	C-45	C-42
MH-1	FBH	AA-761-N	AA-87	.....
E-1	PBP	XP-214-B, XP-264-B	.....	.....
E-2	PBG	XX-301	XX-26	XX-22-A, XX-22, XX-21-H§
E-3	....	XXP-209-G, 259-G	XXX-36	.....
E-4	PBE	XXX-401	.....	.....
E-5	....	XXXP-219-E, XXXP-455	CE-57	C-42
E-6	....	N-850	LE-79	LE-63
EM-1	FBG	CE-552	CE-52-D	.....
EM-2	FBE	CE-563-N, LE-659	MGB-92, MGB-92-A	MGB-96, MGB-96-A
EM-3	....	CE-559, CE-568-A	.....	G-7-97
GMG	GMG	MGB-811	.....	.....
GSG	....	G-7-830	.....	.....

* Less than 1" thick. † 1" thick and over. § Small diameter rolled tubes .093" to .312" I.D., 1/16" maximum wall thickness.

FEDERAL SPEC. HHP-256 AND ASTM SPEC. D-709

Federal and ASTM Grade	CORRESPONDING PHENOLITE GRADE		
	Sheet	Molded Tubing and Rod	Rolled Tubing
Type I X P XX XXP XXP	X-109-A XP-208-E, XP-258-E, XP-214-B, XP-264-B XX-301 XXP-209-G, 259-G XXX-401	X-11 XX-25 XXX-36	X-2, XX-21-H XX-21, XX-21-A, XX-21-H, XX-24
Type II XXP C CE L LE	XXXP-219-C, XXXP-455 C-501, 509, 551 CE-552 L-651 LE-659	..... C-45 CE-54, 57 L-71 LE-79	..... C-42 C-42 LE-63
Type IV A AA G-3 G-3 G-5 G-7	A-701 AA-761-A GB-801 G-3-820 MGB-811 G-7-830	A-85 AA-87 MGB-92, MGB-92-A G-3-98-A MGB-96, MGB-96-A G-7-97

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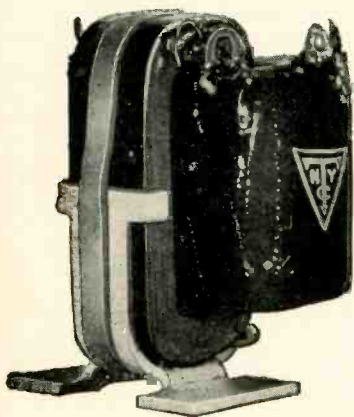
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HORNET Transformers provide minimum size, maximum efficiency and greatest life expectancy in transformers for portable and airborne equipment.

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Compare These Typical Volume and Weight Figures

	Max. Oper. Temp. Deg.C.	Volume Cu. Ins.	Relative Volume Percent	Weight Pounds	Relative Weight Percent
PLATE TRANSFORMER: Primary 115V., 380/1600cps. Secondary 860V. C.T. 70 MA-RMS, 60 V.A. (85 deg.C. ambient, 50,000 ft. alt.)					
Hermetically Sealed (Class A insulation)	105	21.3	100	2.0	100
Open Construction (Class A insulation)	105	11.0	54.2	1.2	60
HORNET (Class H insulation)	200	6.5	30.5	.33	16.5

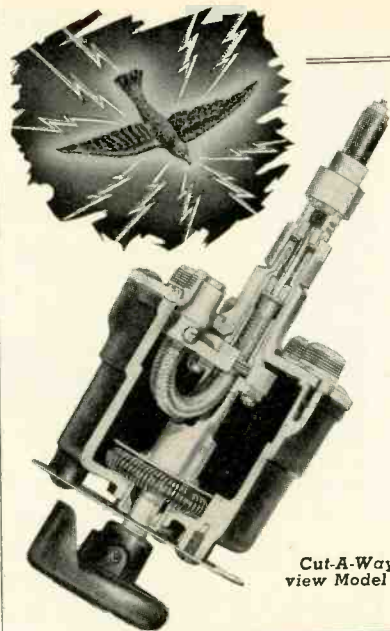
The HORNET represents a combination of ingenious design, modern materials, and radically different manufacturing techniques which opens vast new fields in transformer construction and application.



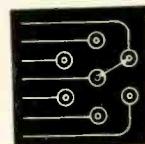
Send for your copy of Bulletin B-300, containing detailed size, weight and rating information on Hornet Transformers and Reactors.



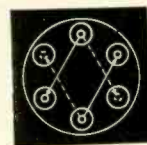
**NEW YORK
TRANSFORMER CO., INC.**
ALPHA, NEW JERSEY



Cut-A-Way view Model 74



Single lines mean complete coaxial circuits



Solid lines indicate position 1. Dotted lines indicate position 2.

COAXWITCH

The Selector Switch for Coaxial Circuits

These are 50 ohm switches, designed for use in coaxial circuits. Characteristic impedance is maintained thru all internal details of the switch and LOW STANDING WAVE RATIOS realized. Switch is comparable in VSWR with the cable and connectors with which it is used.

USES—As a channel selector in transmitter or receiver controls—production line testing of coaxial circuited equipment such as TV receivers—selection of antennas with phase monitors in directionals—intra-equipment switching in coax. links, etc.—with Model 72-2, double ended selection of insertion devices, filters, etc.

CABLE TYPES AND CONNECTORS—Three standard models now available for use with 50/52 ohm cable and Type “N” Fittings. Adaptors and special versions for use with other connectors are available. Other impedance levels, such as 70/75 ohm can be supplied.

STANDING WAVE RATIOS—at 550 mc. VSWR is below 1.03. At 1000 mc. below 1.1. At 3000 mc. VSWR is not over 1.3.

MODELS—Model 74 handles single circuit with choice of six channels. Model 72-2 handles double circuit with choice of two channels (DPDT). Model 718 handles single circuit with choice of eight channels.

BIRD ELECTRONIC CORP.

BIRD INSTRUMENTATION FOR COAXIAL TRANSMISSION

REMOTELY OPERATED COAXSWITCH



This 50 ohm switch is designed for remote switching of coaxial circuits. It will meet rigid Air Force and Navy specifications for operation under extreme environmental conditions at any frequency up to 11,000 m.c. RG-8/U 50 ohm cable connects directly to the switch in the same manner as to an "N" type R. F. fitting, thereby eliminating insertion V.S.W.R. difficulties caused by connectors, also reducing the weight and space required.

DIMENSIONS

6 5/8" overall length (less cable)
by 2 1/2" diameter.

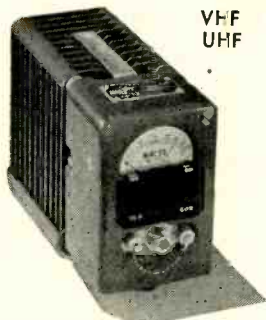
WEIGHT:

2 pounds, 12 ounces approxi-
mately.

Model	Circuits	Positions	Operating Voltage
76	Single	6 (Selector)	28V D.C.
75	Single	2 (Relay)	28V D.C.
73	Single	6 (Selector)	Manual

Note: The R. F. portion of manual Model 73 is identical with remote switches.

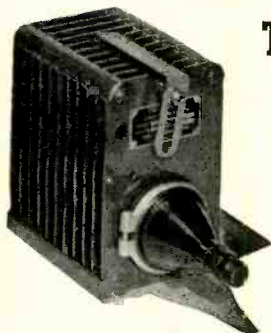
TERMALINE Direct-Reading RF Wattmeters (For use with CW-AM-FM-TV Transmitters)



Direct-reading instruments for power measurement of transmitters in the 30 to 1000 mc, 1 to 2500 watt group. Accuracy far exceeds any instrument previously available. As simple as use of an ordinary DC voltmeter. Can measure transmitter power, take accurate data on how transmitter power output is affected by line voltage, transmitter temperature rise, time, etc. Gives an accurate standard termination for 50/52 ohm lines, so that comparisons are readily made between antennas and this standard load. Transmitter line and connector losses readily checked to accuracy needed in field work. Determination can be easily made as to how present transmitter performance compares with that realized previously. Results are accurate in absolute terms.

PRINCIPLE—Wattmeter measures power by the E^2/R method. The Termaline resistor (almost a pure resistance over a wide frequency range) dissipates power applied. Dual or triple voltmeter cartridges using the 1N21B crystal diode are bridged across the Termaline resistor input and feed a DC meter with scales direct-reading in terms of RF power.

SPEC.	MODEL 61	MODEL 67	MODEL 67C
FREQUENCY RANGE	30-500 mc or 500-1000 mc	30-500 mc or 500-1000 mc	30-500 mc or 500-1000 mc
POWER RANGE	80 Watts Dual Range 15/60 or 20/80	500 Watts Triple Range 25/100/500W	2500 Watts Water-Cooled Scales to Order
IMPEDANCE	51.5 ohms	51.5 ohms	51.5 ohms
INPUT CONNECTOR	Female "N" Fits UG-21 or UG-21B/U Plug	Supplied with Adaptor for UG-21 or UG-21B Other Optional	Fittings For any Standard Rigid or Flexible Coax. Line Available
SCALE TYPE	Expanded At Low Scale Readings	Expanded At Low Scale Readings	Hand-Drawn To Order
ACCURACY	5% of Full Scale	5% of Full Scale	5% of Full Scale
PHYSICAL DIM.	8 x 6 x 4" Wght—10 lbs.	17 x 9 x 6" Wght—30 lbs.	21 x 9 x 6" Wght—40 lbs.



TERMALINE Coaxial Load Resistors (Dummy Antennas)

Designed to have a constant input impedance over the frequency range from 0 (DC) to over 4000 mc. Its unique design, puts reactance to work and causes it to represent an almost pure resistance, over its frequency range, with NEGLIGIBLE VSWR. The active power dissipating portion is the outer surface of a cylindrical film-type resistor, which forms the center conductor of a special self-terminated coaxial structure. Constant

impedance properties depend upon shape of coaxial assembly and distribution of resistance along length of outer surface of resistor.

Major application has been as a dummy load for CW, AM, FM and TV transmitters. Being non-radiating, adjustment of transmitters can be made without violation of FCC rulings. A special version of the Termaline resistor is now being incorporated in television transmitters for test purposes. It has proven highly useful as a termination for connectors being investigated for insertion VSWR properties, and for insertion loss measurements on filters, cables, etc.

VSWR—Typical VSWR's taken on production units of Model 81 and 81B—

AT	VSWR	AT	VSWR	AT	VSWR
130 mc	1.02	700 mc	1.042	1400 mc	1.075
230 mc	1.02	800 mc	1.015	1500 mc	1.09
300 mc	1.03	900 mc	1.031	1700 mc	1.085
400 mc	1.048	1000 mc	1.046	1800 mc	1.03
500 mc	1.048	1100 mc	1.02	2000 mc	1.067
600 mc	1.024	1200 mc	1.037	3000 mc	1.114

IMPEDANCE—51.5 OHMS

SPEC.	MODEL 81	MODEL 81B	MODEL 82	MODEL 82C
POWER RATING	50 Watts Continuous	80 Watts Continuous	500 Watts Continuous	2500 Watts Water-Cooled
VSWR LESS THAN	1.15 to 4000 mc	1.15 to 4000 mc	1.2 to 2700 mc	1.2 to 2700 mc
FITTINGS	Type "N" Takes UG-21/U or UG-21B/U Plug	Type "N" Takes UG-21/U or UG-21B/U Plug	Supplied With CA-8 Adaptor for UG-21/U Other Optional	OPTIONAL Cable Type Being Used Should Be Specified

BIRD ELECTRONIC CORP.

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CLEVELAND 14, OHIO

West Coast: NEELY ENTERPRISES, 7422 MELROSE BLVD., HOLLYWOOD 46, CAL.



PRECISION WIRE WOUND RESISTORS

14 years of service marks the performance of Cinema Engineering Co. resistors. Used in laboratories throughout the country in every scientific application they are gaining wide spread recognition.

Thirty styles from which to choose. Manganin, Evanohm, Nickel Chrome, and Constantan alloys are available in every style. Made in accuracy tolerances of 1% (standard) to 1/20%. Non-inductively wound on non-hygroscopic ceramic bobbins. Nominal wattage ratings from 1/4 watt to 2 watts. Also available with glass insulated wire up to 10 watts. All types in use on government specification equipment. Send for complete pricing chart and catalogue IIAx.

FIXED AND VARIABLE Audio Frequency Attenuators



Cinema Controls are made to the highest degree of accuracy and have years of built-in service. Wiper blades and contacts are hand lapped and matched. Precision types from 1/10 db. Over 500 models. Write for catalogue IIAx.

PRECISION Instrument Type Rotary Tap Switches



Using the same fine precision construction of Cinema attenuators these switches are built for dependability. Tailored to your custom requirements. Brass, Nickel Silver, and Coin Silver contacts. Write us giving your requirements.

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A complete line of laboratory supplies is made as a part of the Cinema line. Patch plugs, jacks, relay racks, decade boxes are but a few of the many items. Plug-in Amplifiers, and Transformers are available in many types. Write for catalogue IIAx.



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Magnecorders

FIRST FOR FIDELITY

50 to 15,000 cps \pm 2 db at 15"/sec. tape speed. Signal-to-noise ratio—50 db. Maximum flutter—0.3%. Harmonic distortion—2%. Broadcast quality!

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Exclusive Magnecord unit construction lets you use Magnecord recorders, amplifiers, and other units interchangeably for portable, rack, or console — add other units at will — record from one to four microphones.

FIRST FOR FEATURES

Now 3 separate heads permit monitoring from tape. Three speeds: 15, 7½, 3¾ inches per second. Up to one hour on 7" NAB reels — will take 10½" reels on portable, too. New POSITIVE TIMING DRIVE. Can be remotely controlled.

THERE'S A MAGNECORDER FOR EVERY PURPOSE . . . EVERY PURSE



See the PT6-A portable — only \$278. World's most widely used professional tape recorder.



PT7, PT63, and PT6 also rack mount.



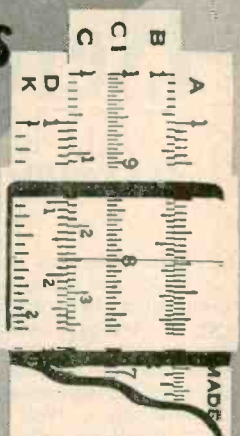
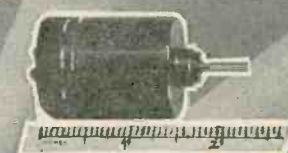
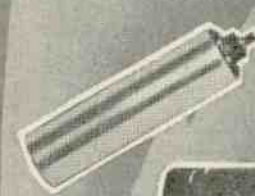
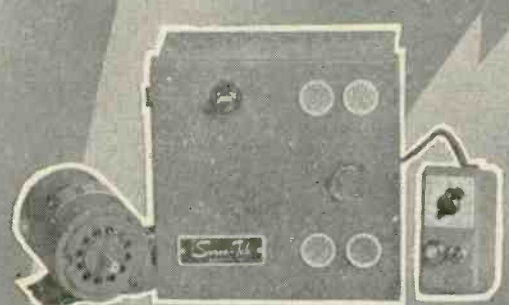
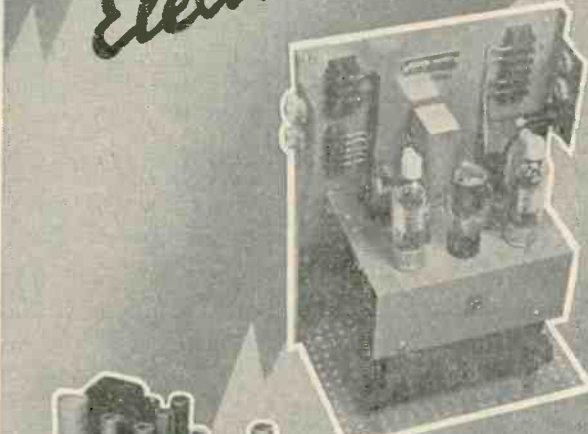
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See your distributor or write for specifications on PT6, PT63, and PT7 series Magnecorders.

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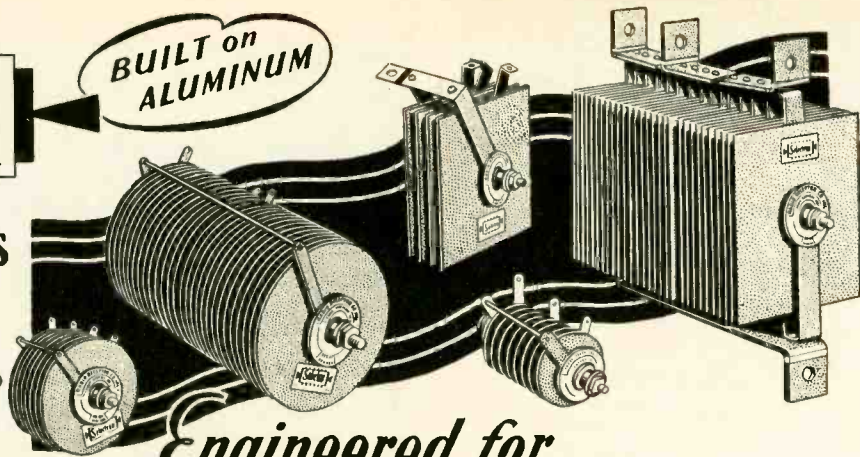
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Seletron

SELETRON RECTIFIERS

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SELETRON Selenium Rectifiers are finding use in wider and wider fields of application ranging from half wave stacks for bias supply, to multiple assemblies capable of delivering many kilowatts. Typical examples of such SELETRON power use are installations operating elevators in more than fifty office buildings in New York and Chicago, an assembly of 48 volts and 10,000 amperes for electrolysis of water, and the spectacular Eveready searchlight on New York's Great White Way.

Engineered for
**HIGH EFFICIENCY AND
DEPENDABILITY**

		.15 Amps. D.C.		.22 Amps. D.C.		.30 Amps. D.C.		.45 Amps. D.C.		.60 Amps. D.C.	
Approx. D.C. Volts	Max. A.C. Input	Code No.	Length	Code No.	Length	Code No.	Length	Code No.	Length	Code No.	Length
21	26	M1B1S1C	1 7/8"	M1B1S1C	1 7/8"	P1B1S1C	1 3/8"	P1B1S1C	1 3/8"	Q1B1S1C	1"
42	52	M2B1S1C	2 1/8"	W M2B1S1C	2 1/8"	P2B1S1C	2 1/8"	W P2B1S1C	2 1/8"	Q2B1S1C	2 1/8"
63	75	M3B1S1C	2 3/8"	W M3B1S1C	2 3/8"	P3B1S1C	3"	W P3B1S1C	3 3/8"	Q3B1S1C	3"
84	104	M4B1S1C	3 1/8"	W M4B1S1C	3 1/8"	P4B1S1C	3 5/8"	W P4B1S1C	4 7/8"	Q4B1S1C	3 5/8"
105	130	M5B1S1C	3 3/4"	W M5B1S1C	4"	P5B1S1C	4 1/8"	W P5B1S1C	5 1/8"	Q5B1S1C	4 1/8"

		.90 Amps. D.C.		1.2 Amps. D.C.		1.6 Amps. D.C.		2.4 Amps. D.C.		3.1 Amps. D.C.	
Approx. D.C. Volts	Max. A.C. Input	Code No.	Length	Code No.	Length	Code No.	Length	Code No.	Length	Code No.	Length
21	26	Q1B1S1C	1 3/8"	D1B1S1C	2 3/8"	D1B1S1C	2 3/8"	E1B1S1C	2 3/8"	E1B1S1C	2 3/8"
42	52	W Q2B1S1C	2 3/8"	D2B1S1C	3 1/8"	W D2B1S1C	4 1/8"	E2B1S1C	3 1/8"	W E2B1S1C	4 1/8"
63	78	W Q3B1S1C	3 3/8"	D3B1S1C	3 3/8"	W D3B1S1C	6 1/8"	E3B1S1C	5"	W E3B1S1C	6 1/8"
84	104	W Q4B1S1C	4 3/8"	D4B1S1C	6 1/8"	W D4B1S1C	8 3/8"	E4B1S1C	6 3/8"	W E4B1S1C	8 3/8"
105	130	W Q5B1S1C	5 3/8"	D5B1S1C	7 3/8"	W D5B1S1C	9 1/8"	E5B1S1C	7 3/8"	W E5B1S1C	9 1/8"

		4.0 Amps. D.C.		5.2 Amps. D.C.		6.0 Amps. D.C.		8.0 Amps. D.C.		10 Amps. D.C.	
Approx. D.C. Volts	Max. A.C. Input	Code No.	Length	Code No.	Length	Code No.	Length	Code No.	Length	Code No.	Length
21	26	F1B1S1C	2 3/8"	F1B1S1C	2 3/8"	G1B1S1C	3"	H1B1S1C	3"	H1B1S1C	3"
41	52	F2B1S1C	3 1/8"	W F2B1S1C	4 1/8"	G2B1S1C	4 1/8"	H2B1S1C	4 1/8"	W H2B1S1C	5 1/8"
62	78	F3B1S1C	5"	W F3B1S1C	6 1/8"	G3B1S1C	6 1/8"	H3B1S1C	6 1/8"	W H3B1S1C	7 1/8"
83	104	F4B1S1C	6 3/8"	W F4B1S1C	8 3/8"	G4B1S1C	8 3/8"	H4B1S1C	8 3/8"	W H4B1S1C	10 1/8"
104	130	F5B1S1C	7 3/8"	W F5B1S1C	9 1/8"	G5B1S1C	9 1/8"	H5B1S1C	9 1/8"	W H5B1S1C	12 1/8"



MINIATURES
For RADIO and
TELEVISION
Applications



MODEL NO.	PLATE SIZE	STACK THICKNESS	MAX. INPUT VOLTAGE R.M.S.	MAX. PEAK INVERSE VOLTAGE	MAX. D.C. OUTPUT CURRENT
1M1	1" sq.	3/8"	25	75	100 MA
8Y1	1/2" sq.	1/8"	130	380	20 MA
16Y1	1/2" sq.	1"	260	760	20 MA
5M4	1" sq.	7/8"	130	380	75 MA
5M1	1" sq.	7/8"	130	380	100 MA
5P1	1 1/8" sq.	7/8"	130	380	150 MA
6P2	1 1/8" sq.	1 1/8"	156	456	150 MA
5R1	1 1/2" x 1 1/4"	1 1/8"	130	380	900 MA
5O1	1 1/2" sq.	1 1/8"	130	380	950 MA
6O1	1 1/2" sq.	1 1/8"	156	456	950 MA
6O2	1 1/2" sq.	1 1/8"	156	456	950 MA
5OS1	1 1/2" x 2"	1 1/8"	130	380	350 MA
6OS2	1 1/2" x 2"	1 1/8"	156	456	350 MA
5S1	2" sq.	1 1/8"	130	380	500 MA
6S2	2" sq.	1 1/8"	156	456	500 MA

Listed above are full wave bridge rectifiers. Ratings are for continuous duty, resistive inductive load, in an ambient temperature of 35° C.

For higher voltages and currents other combinations are available. The tabulations shown are only a partial listing. Send us specifications for other designs . . . Our engineers will be glad to aid you in the solution of your rectifier problems without obligation. For booklet on SELETRON Selenium Rectifiers, write Dept. BS-3.

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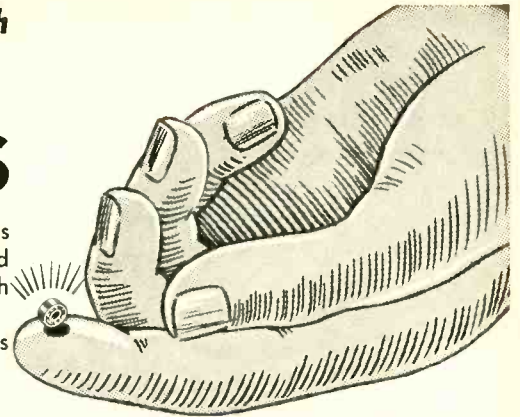
Factory: 84 North 9th St., Brooklyn 11, N. Y.

Minimize friction, space and weight... with

MINIATURE BALL BEARINGS

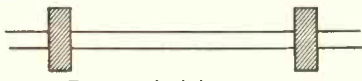
Bearings for precision instruments, controls and similar fine mechanisms can have the same properties of accurate alignment, long wear and freedom from attention as are achieved in larger applications... through the use of MPB bearings.

These bearings are available in a variety of types, sizes and materials to meet the designer's specific application requirements.



(Illustrations are actual size)

Typical Applications



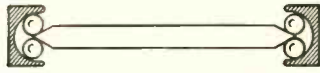
Two radial bearings supporting shaft.



Shaft with radial bearing and pivot bearing.



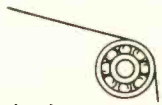
Radial bearings used to make a roller.



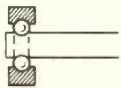
Shaft with pivot-bearings at both ends.



Pivot bearings mounted in rotating member; shaft stationary.

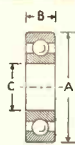


Radial Bearing with groove used as a guide for wire or thread passing over it.



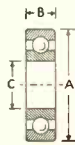
Radial bearing with shaft as inner race; for cam followers.

radial series					
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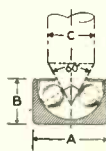
Bearing No.	2	2 1/2	3	4	5
O. D. (A)	1/8"	5/32"	3/16"	1/4"	5/16"
Width (B)	3/64"	1/16"	5/64"	3/32"	7/64"
Bore (C)	1/25"	3/64"	.0550	5/64"	3/32"
Weight (grams)	.035	.085	.15	.33	.69
Rating 1000 rpm	1.8 lbs.	2.4 lbs.	4.8 lbs.	9.0 lbs.	10.0 lbs.
TOLERANCES (A) +.0000" - .0002" (B) +.000" - .001" (C) +.0000" - .0002"					

super light series					
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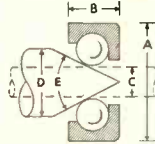
Bearing No.	418	518	5532	5632	5732
O. D. (A)	1/4"	5/16"	5/16"	5/16"	5/16"
Width (B)	3/32"	7/64"	7/64"	7/64"	7/64"
Bore (C)	1/8"	1/8"	5/32"	3/16"	7/32"
Weight (grams)	.28	.625	.56	.43	.36
Rating 1000 rpm	5.6 lbs.	6.3 lbs.	5.6 lbs.	5.6 lbs.	3.8 lbs.
TOLERANCES SAME AS STANDARD RADIAL SERIES					

pivot series						
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Bearing No.	2P	3P	4P	5P	7 1/2 P	10P
O. D. (A)	2mm.	3mm.	4mm.	5mm.	7.5mm.	10mm.
Width (B)	1.2mm.	1.8mm.	2.4mm.	3mm.	4.5mm.	6mm.
Shaft (C) Min.	2/100"	3/100"	4/100"	5/100"	7.5/100"	10/100"
Weight (grams)	.025	.080	.165	.32	1.00	2.56
Rating 1000 rpm	T .29-R .07 lbs.	T 1.1-R .46 lbs.	T 3.1-R 1.2 lbs.	T 5.8-R 2.3 lbs.	T 13.-R 5.2 lbs.	T 23.2-R 9.0 lbs.
TOLERANCES (A) +.0000" - .0002" (B) + or -.002"						

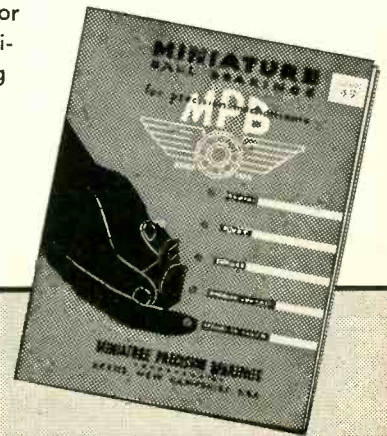
angular contact series				
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Bearing No.	2A	3A	4A	6A
O. D. (A)	1/8"	3/16"	1/4"	3/8"
Width (B)	3/64"	7/100"	3/32"	9/64"
Shaft (C) Max.	.032"	.048"	.063"	.094"
Weight (grams)	.053	.17	.425	1.49
Rating 1000 rpm	R 1.4-60° T 1.7 lbs.	R 3.7-60° T 4.7 lbs.	R 6.9-60° T 8.7 lbs.	R 15.5-60° T 19.0 lbs.
TOLERANCES (A) +.0000" - .0002" (B) +.000" - .002"				

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STYLE	TYPE	WATTS Max.	VOLTS Max.	DIMENSIONS		RESISTANCE <i>Used</i>		
				Length	Diam- eter	Min.	Max. Megohms	
								Inches
WIRE WOUND PRECISION RESISTORS <i>% Tolerances 1, 1/2, 1/4, 1/10, 1/20</i>	AFB	0.5	125	15/32	9/16	0.1 Ohm	1	
	AGC	0.5	250	5/8	5/8	0.1 Ohm	2	
	AGF	1.0	500	1	5/8	0.1 Ohm	4	
	AJS	1.0	500	1-9/32	3/4	0.2 Ohm	5	
	ALP	2.0	750	2-1/32	7/8	0.5 Ohm	7.5	
HIGH VOLTAGE RESISTORS <i>% Tolerances 15, 10, 5, 3 Matched Pairs 2%</i>	BBF	1	3500	1	5/16	.05 Meg.	10,000	
	BBM	2	7500	1-3/4	5/16	.10 Meg.	25,000	
	BBR	3	15,000	3	5/16	.20 Meg.	25,000	
	BBV	5	30,000	5-1/2	5/16	.40 Meg.	25,000	
	BFQ	4	15,000	2-1/2	9/16	.20 Meg.	25,000	
	BFT	6	25,000	4	9/16	.40 Meg.	25,000	
	BFW	10	40,000	6-1/2	9/16	.70 Meg.	25,000	
	Type T — 20% Only	DPW	20	35,000	6-1/2	1-1/8	1 Meg.	50,000
		DPX	30	65,000	10-1/2	1-1/8	2 Meg.	50,000
		DVY	50	90,000	14-1/2	1-1/2	4 Meg.	100,000
Type B and T — Lugs Only	DZW	30	40,000	6-1/2	2	3 Meg.	35,000	
	DZZ	90	125,000	18-1/2	2	7.5 Meg.	100,000	
	TBR	2	15,000	3	5/16	1 Meg.	10	
	TFQ	3	20,000	2-1/2	9/16	1 Meg.	10	
HIGH MEGOHM RESISTORS <i>% Tolerances 10, 5</i>	HBF	1	3500	1	11/32	10 Meg.	2 Million	
	HBM	2	7500	1-3/4	11/32	10 Meg.	10 Million	
	HBR	3	15,000	3	11/32	10 Meg.	50 Million	
HIGH FREQUENCY RESISTORS <i>% Tolerances 15, 10, 5</i>	FBF	1	500	1	5/16	20 Ohms	100	
	FBM	2	1000	1-3/4	5/16	35 Ohms	100	
	FBR	3	1700	3	5/16	65 Ohms	100	
	Type F — Lugs Only	FFQ	4	1400	2-1/2	9/16	30 Ohms	50
		FFT	6	2200	4	9/16	50 Ohms	75
		FFW	10	3700	6-1/2	9/16	75 Ohms	100
	Type G — Lugs and Ferrules	GPW	20	3300	6-1/2	1-1/8	35 Ohms	50
		GPX	30	5500	10-1/2	1-1/8	60 Ohms	100
		GVY	50	8000	14-1/2	1-1/2	65 Ohms	100
		GZW	30	3300	6-1/2	2	20 Ohms	25
GZZ		90	10,000	18-1/2	2	60 Ohms	100	

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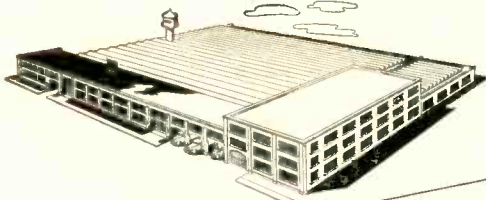
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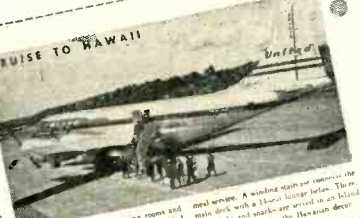
TAKE A STRATOCRUISE TO HAWAII

United Airlines are now making it very easy and pleasant to spend a vacation among the blue mountains at Waikiki. They recently put the Douglas DC-4's, luxury liner, down here to serve on their California-Hawaii route. The ship carries excellent food and Amphenol connectors, fittings and hardware.

Perfection in many fields of aeronautical equipment has all been handed together in this double-decked aircraft. A reliable make this double-decked aircraft a reliable for the executive traveler, business man, etc. in the big ship's and more airway which is here the has been made doubly effective through the wide use of Amphenol fittings.

David's Stratocruiser has many features, in addition to those mentioned, not included in earlier versions delivered to other operators. Most appear change in increased space-usage. Whereas some Stratocruisers carry only 25 passengers, United's version seats only 52.

Each Hamilton Stratocruiser is divided into two separate passenger sections. Behind the flight deck is an equivalent or fourteenth



The water airplane, including its two large wing sections, is housed in two large hangar bays. In passenger, for example, at altitudes up to 15,000 feet, cabin altitude is equal to that at sea level. When the Stratocruiser is cruising at 15,000 feet, interior altitude is equivalent to that at 10,000 feet or approximately 5,200 feet above sea level.

Fast Pratt & Whitney Wasp Major engines with a combined total of 11,800 horsepower enable the plane to cruise at speeds of over 400 miles per hour. General Electric turbo-propellers provide extra power at high altitudes. Four-blade Curtiss Electric propellers are retractable and fully feathered.

Flights cross the Mainland States in one day, circle a pilot, captain, radio engineer, mechanic, two air attendants and steward.

In addition to seven Stratocruisers, United's fleet is 143 planes, including 39 DC-3's, 29 DC-4's and 74 DC-6's. For more DC-6's and six DC-6's are in order for the company.

AMPHENOL ENGINEERING NEWS



SPERRY ENGINE ANALYZER

From 20% to 50% of vehicle delays in traffic situations, according to C. A. K. Sperry, are due to engine and engine accessories. These are not only a major cause of traffic delays, but also a large portion of the maintenance cost for the motorist.

The Sperry Corporation's Sperry Engine Analyzer, developed by the Sperry Corporation, is a portable, hand-held device that can be used by any driver to check the condition of his engine and engine accessories. It is used either in the engine compartment or on the ground.

Sperry's Sperry Engine Analyzer is a portable, hand-held device that can be used by any driver to check the condition of his engine and engine accessories. It is used either in the engine compartment or on the ground.

It immediately upon the arrival of the analyzer, the driver can test the engine's condition, which occurs at high altitudes and is made available to ground crew.

The Sperry Engine Analyzer has many outstanding characteristics and distinctive features. The analyzer is extremely portable and can be carried in a briefcase. It is used either in the engine compartment or on the ground.

The analyzer is extremely portable and can be carried in a briefcase. It is used either in the engine compartment or on the ground.



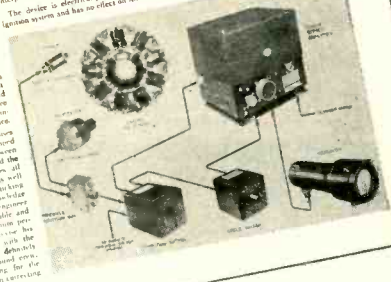
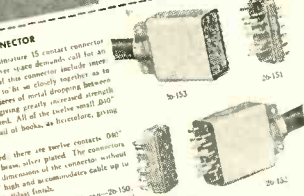
NEW 15 CONTACT MINIATURE CONNECTOR

Amphenol recently brought out a new and greatly superior miniature 15 contact connector for use in tank and panel mounting. This connector includes interlocking features, which allow the male and female connectors to be mated together so as to eliminate any possibility of accidental pulling from holes or gears of metal drawings, thereby eliminating the possibility of damage to the parts. Earlier have been inserted in the mounting holes giving greatly increased strength and eliminating the possibility of damage to the parts.

Each connector has two holes for attaching conductors instead of holes, as in earlier designs. Additional solder tabs are provided for each contact.

The female contacts are of deershell copper, silver plated. There are twelve contacts DMT and three contacts 992 in diameter. Male contacts are of brass, silver plated. The contacts are mated at high speed using a special tool. The overall dimensions of the connector without the mounting holes are 1.1" high and 1.1" wide. The shield can is 1.1" high and 1.1" wide.

Amphenol's new miniature 15 contact connector is available in two versions: male without can—20-150 and female with can—20-153. Male without can—20-150 and female with can—20-153. Male without can—20-150 and female with can—20-153.



AMPHENOL ENGINEERING NEWS

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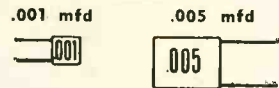
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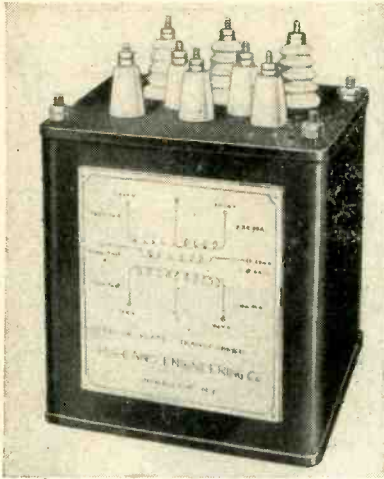


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(1) Tube test compartment for any tube up to 14" diameter and 20" high, movable grid and plate tank compartments (2) Filament supply for tube under test, 0-25 volts, 50 amps, continuously variable, regulated plus or minus 1% for line voltage variation. (3) Any one of four plug-in, crystal controlled oscillator-buffer units offering fixed drive frequencies of 2.5, 7.5, 15, 20, 30 and 60 MC (4) Driver unit, up to 200 watts R. F. driving power. (5) Water cooled load, capacity 5000 watts. (6) Ample air cooling for top and bottom seals of tube under test. (7) Full metering including driving power, plate dissipation and R. F. power output.

WATER CIRCULATING and COOLING UNIT — Left Hand Cabinet — Contains:

(1) Water pump, fan radiator, flow control valves and flow and temperature measurement for heat dissipation and auxiliary calorimetric determination of output power.

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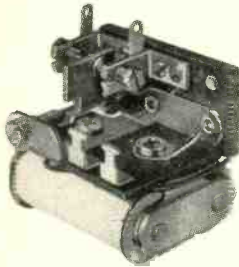
Sensitive Relays

SERIES 4



SPDT GENERAL PURPOSE SENSITIVE D. C. RELAY of moderate cost. Balanced armature resists vibration suitably for most aircraft applications at 50 milliwatt adjustment. Adequate sensitivity for most vacuum tube operated relay circuits; can be set to operate down to 10 milliwatts. Precision adjustments for pull on and drop out. Journal Pivots, high permeability nickel iron, and beryllium copper springs assure reliability. Nominal contact rating 2 amperes. Coil resistance up to 14000 ohms.

SERIES 5



SPDT VERY SENSITIVE D. C. RELAY of exceptional design and construction quality. Balanced armature and magnetic efficiency sufficient to permit aircraft vibration resistant adjustment for inputs as low as 5 milliwatts (less than 1 milliwatt for less exacting service). Basic relay withstands 500g shock without damage. Precision adjustments, conical pivots, high permeability nickel iron, beryllium copper springs. Nominal contact rating 2 amperes. Coil resistance up to 16000 ohms.

Special adaptations: — Separate connection to each of two coils for differential operation — Built-in instrument rectifiers for A. C. coil operation — Bimetallic compensation for constant voltage operation at variable ambient temperature.

SERIES 41

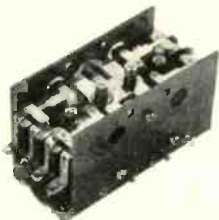


SPDT SENSITIVE RELAY — A. C. — D. C. — KEYING — featuring low cost and unusual characteristics.

D. C. Sensitivity comparable with Series 4, but less adjustment flexibility. Exceptionally long life rocking pivot and availability of bounce-free contacts (Normally Open only) suit it for high speed counting and keying. Mechanical life over 10⁹ operations. Also well suited for any plate circuit use requiring moderate precision and vibration immunity. Contacts can be rated at 5 amps — sometimes more. Coil resistance up to 14000 ohms.

A. C. Sensitivity better than 0.1 V. A. Impedance as high as 130,000 ohms at 90 volts 60 cps. Supplied for frequencies from 16 to 400 cps. Shunt or series coils available. Excellent for protection of delicate thermostat or instrument contacts. Operates over wide range of variable input (e.g. 90-250v A. C.).

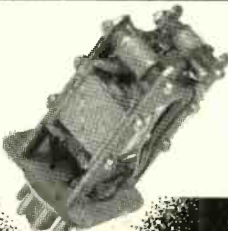
SERIES 6



MULTICIRCUIT POLARIZED SENSITIVE RELAY — with single or double (differential) windings, resistance up to 25000 ohms total, and contacts up to 4PDT, 5 AMP nominal rating. Fully balanced armature strongly resistant to vibration.

Form X — Null Seeking — For automatic positioning or two-way process control. Armature normally held at center by positive detent but operable either right or left by coil power of appropriate polarity and magnitude. Sensitivity depending on contact complexity from 10 to 100 milliwatts.

SERIES 7

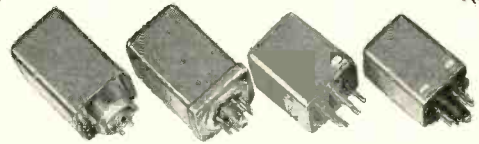


SPDT SENSITIVE HIGH SPEED POLARIZED RELAY. Single or multiple windings up to 14000 ohms (single). Fully balanced armature. Nominal contact rating 2 amps. Especially designed for repeating telegraphic signals at speeds up to 250 words per minute. Exceptionally free from distortion and chatter, small size and weight, hermetically sealed (cover removed in cut). Mechanical life over 10⁹ operations. Life under representative severe telegraphy service 10⁸ operations.

AVAILABLE SERVICE

1. Selection from tabulated standards. Several different sensitivities, at a large number of coil resistance levels, in a number of mechanical styles — for each relay type described.
2. Functional study of your problem. Working in our laboratory or yours, we help to determine relay specifications with which your equipment will best function taking account of relay characteristics and limitations both general and particular.

By all means, avail yourself of this service when your engineering is in its early stages. Relay dynamics, while simple, are not always obvious. Fitting circuits to relays is often easier than vice versa.



VARIETY OF ENCLOSURES

Some of the standard enclosures (including hermetically sealed) in which most Sigma relays are available.

Form Y — Biased (Spring Return) — For use as an ordinary sensitive relay where a complex contact combination is required. Often combines the function of pilot relay and contactor. Sensitivity range same as Form X. Responsive only to D. C. of proper polarity. Armature returns to normal position when coil power is removed, closing N. C. contacts.

Form Z — Latching (Permanent Magnetic) — As a replacement for mechanical latch electrical reset relays where longer life and greater resistance to vibration is required. When these features are stressed sensitivity is from 100 to 250 milliwatts.

Forms X, Y, and Z are available in the Series 7 giving same modes of operation as in the Series 6 above. Sensitivities range from less than 1 to 10 milliwatts depending on form and requirements. The Form X is useful as the detecting element in positioning bridge circuits and the like because of fairly high sensitivity plus the stabilizing advantages of detent centering of the armature in the balance bridge condition.

WRITE FOR FULLY DESCRIPTIVE CATALOG

In this space we have highlighted general characteristics of the Sigma line and salient features of individual members. This advertisement may serve as a preface to our general catalog which is yours for the asking. Your specific inquiry on an actual problem will receive prompt attention.



SIGMA Instruments, Inc.

SENSITIVE RELAYS

62A Ceylon St., Boston 21, Mass.

MEPCO PRECISION RESISTORS

JAN - R - 93
LUG TERMINAL TYPES



CERAMIC FORMS: Non-hygroscopic material, high dielectric, low coefficient of expansion. No. 6 screw hole through center.

WIRE: Highest grade alloys; Cu-Ni, Ni-Cr, Cu-Mn-Ni, Ni-Cr-Al-Cu, Ni-Cr-Fe, enamel or fabric covered. Minimum size .0015 standard, .0007 special.

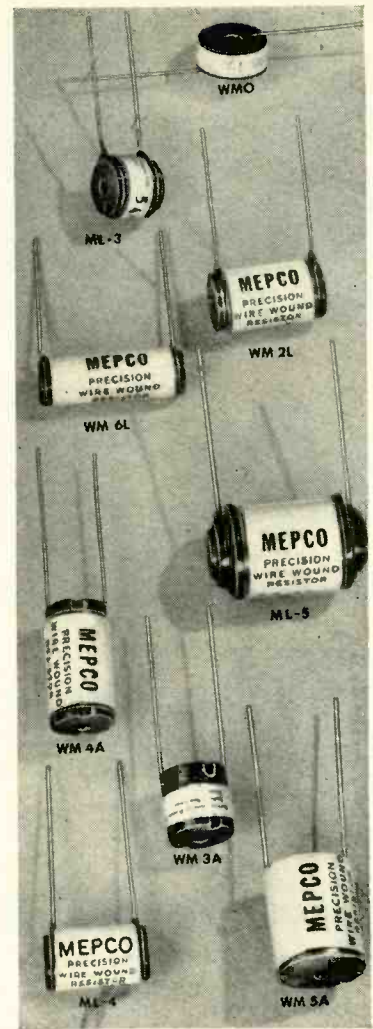
TEMPERATURE COEFFICIENT: $\pm .002\%/^{\circ}\text{C}$ for ohms up to approx. 2500; $.017\%/^{\circ}\text{C}$ above 2500. $.002\%/^{\circ}\text{C}$ may be ordered special on any type resistor.

TOLERANCE: $\pm 1\%$, $\pm .5\%$, $\pm .25\%$ standard. $\pm .1$, $\pm .05$ special.

MOISTURE PROTECTION: Standard units thoroughly impregnated with moisture and salt water proofing compounds and fungus resistant acetate label. Vacuum impregnating and other special sealing on request.

INSULATION: Each cross-over wire insulated from winding by acetate cloth. All units receive 500V. breakdown test.

INDUCTANCE: Reversed, balanced winding in each pie section minimizes inductance up to approx 50KC. Special frequency characteristics upon request.



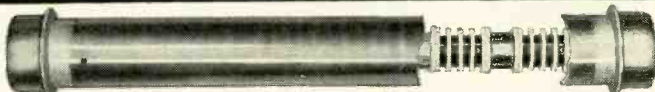
COMMERCIAL LEAD TERMINAL TYPES

Type		Wattage Rating		Resistance Range			Dimensions (Inches)		Jan Voltage Ratings		
Jan.	Mepco	Jan.	Com-mercial	Low (OHM)	High (MEG)	Special* (MEG)	Length	O. D.	1%	.5%	.25%
RB 10	RB 10	1/4	1/2	.1	.2	.5	15/32	1/2	215	186	152
RB 11	WM 3	1/3	1	.1	.2	.4	9/16	9/16	316	274	224
RB 12	WM 4	1/2	1	.1	.6	1.5	1	9/16	387	335	274
RB 13	WM 5	1/2	1	.1	.9	3	1 1/4	3/4	612	520	433
RB 14	WM 2	1	2	1	3	5	2	7/8	2000	1732	1414
RB 21	WM 1	1	1	1.0	.5	1	2 1/8	9/16	895	775	632
RB 40	WM 12	.4	1	.1	.15	.3	1	3/4	245	212	173
RB 41	WM 13	1/2	1	.1	.3	.6	1 1/4	3/4	387	335	274
RB 42	WM 14	.6	1	.1	.5	1.5	1 3/8	3/4	520	450	367
RB 51	RB 51	1/4	1/2	.1	.1	.3	3/8	3/8	158	137	112

* Higher maximum resistance at reduced power rating using smaller wire sizes.

MEPCO METER MULTIPLIER

JAN R - 29
TYPES MFA & MFB



HERMETICALLY SEALED: Metal to Steatite. **HIGH STABILITY:** Finest grade Alloy wire—Properly aged. **SHOCK RESISTANT:** Suspended elements—Internal cushioning. **REPLACEABLE SECTIONS:** Eliminates complete loss of unit if damaged. **TEMPERATURE COEFFICIENT:** $\pm .017\%/^{\circ}\text{C}$ standard, $\pm .002\%/^{\circ}\text{C}$ special. **TERMINALS:** Nickel plated brass. Fits standard fuse clips.

Type	Megohms†	Kilovolts	Dimensions (Inches)	
MFB 105*	1.0	1.0	1 1/4 MAX 9/16 MIN	1 1/4
MFB 155	1.5	1.5	1 1/2 MAX 1 1/8 MIN	1 1/2
MFB 205	2.0	2.0	1 3/4 MAX 1 1/4 MIN	1 3/4
MFB 255	2.5	2.5	1 7/8 MAX 1 1/2 MIN	1 7/8
MFB 305	3.0	3.0	2 1/8 MAX 1 3/4 MIN	2 1/8
MFB 355	3.5	3.5	2 1/4 MAX 1 7/8 MIN	2 1/4
MFA 355*	3.5	3.5	2 1/4 MAX 1 7/8 MIN	2 1/4
MFA 405	4.0	4.0	2 1/2 MAX 1 7/8 MIN	2 1/2
MFA 455	4.5	4.5	2 3/4 MAX 1 7/8 MIN	2 3/4
MFA 505	5.0	5.0	3 1/8 MAX 1 7/8 MIN	3 1/8
MFA 605	6.0	6.0	3 1/2 MAX 1 7/8 MIN	3 1/2

* U.S.N. replacement † $\pm .5\%$

MOLDED lead terminal PRECISION RESISTORS: Positive Connection between Winding and Terminal. Eliminates all soldered joints in resistor. No flux used—all connections non-corrosive. Cannot "OPEN" due to flexing of lead terminals. Same construction as our JAN R-93 Lug terminal types.

* Terminal and end of winding are imbedded together by the metal molding process, assuring a positive electrical and mechanical connection.

Other lead terminal types are of the same basic construction as Lug Types. Terminals are No. 21 AWG copper wire, tinned, 1 1/2" long. Wire fastened on resistor so it cannot turn or come loose. Wire from winding attached to lead at side opposite terminal to prevent breaking when terminal is flexed.

Type WM-O resistor usually supplied with an inductive winding. Special non-inductive construction on request.

Type	Wattage Rating	Resistance Range		Dimensions (Inches)	
		Low	High*	Length	O. D.
WM 1/4	1/20	50 ohms	.03 meg	9/32	1/4
WM 1/2	1/10	5 ohms	.05 meg	7/16	1/4
WM 0	1/4	1 ohm	.2 meg	1/4	5/8
WM 2L	1/2	.1 ohm	.1 meg	3/4	3/8
ML-3	1	.1 ohm	.2 meg	9/16	9/16
ML-4	1	.1 ohm	.6 meg	1	9/16
ML-5	1	.1 ohm	.9 meg	1 1/4	3/4
ML-2	2	1 ohm	3 meg	2	7/8
WM 6L	1	.1 ohm	.2 meg	1 3/16	3/8
WM 3A	1	.1 ohm	.5 meg	1/2	1/2
WM 4A	1	1 ohm	.8 meg	1	1/2
WM 5A	1	1 ohm	1 meg	3/4	5/8

† Not illustrated.

* Higher maximum resistance, at reduced power rating, may be had by using smaller wire sizes. Data on request.

MEPCO, INC. 37 Abbett Avenue

Telephone: Morristown 4-5777

ACCURATE, DEPENDABLE *Telechron* MOTORS

*for automatic timing,
switching, controlling
and recording instruments*

All Telechron Timing Motors are instantly . . . constantly synchronous. They will start full load and reach synchronous speed instantly and remain in synchronism throughout their life. Slippage or "drift" is absolutely impossible within rated load.

INHERENT LONG LIFE

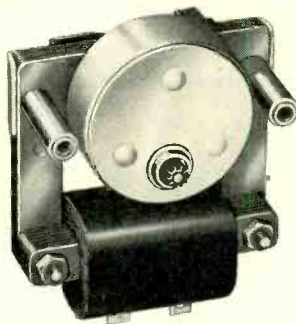
The replaceable, high-speed rotor unit is sealed to keep dust out and lubrication in. The lubricating system keeps all moving parts lubricated for years . . . meters correct amount of oil to the terminal shaft bearing . . . causes the rotor shaft to spin on a film of oil. *No Telechron motor rotor shaft bearing has ever worn out.*

COMPLETE LINE

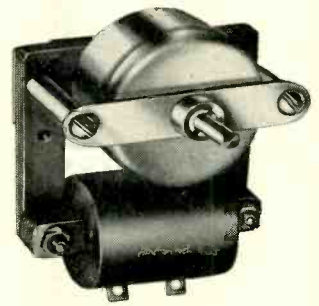
Telechron motors come in many different types, torque ratings and terminal shaft speeds. All Telechron motors are Underwriters' Laboratories approved.

APPLICATION ENGINEERING SERVICE

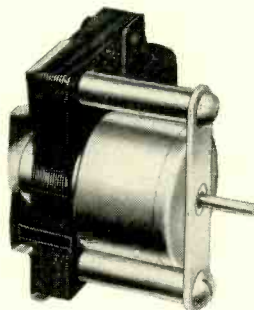
Whatever your requirements . . . standard or special . . . you can get complete satisfaction . . . from Telechron, world's largest producer of synchronous electric timing motors. Here, application engineers offer you the benefits of the longest engineering and manufacturing experience in the field. Address Application Engineering Service, Telechron Inc., 45 Union St., Ashland, Massachusetts. A General Electric Affiliate.



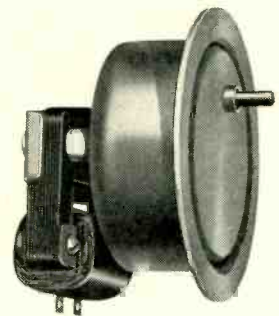
Light-duty motor, type H3
Torque rating .018 pound-inch at 3.6 rpm at 60 cycles 115 volts.



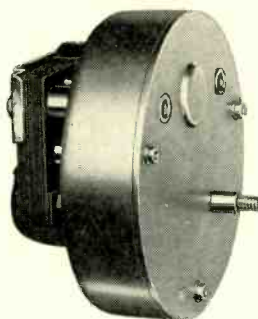
Medium-duty motor, type H5
Torque rating from .20 pound-inch at 6 rph to .50 pound-inch at 1 or 2 rph at 60 cycles 115 volts.



Medium-duty motor, type B
Torque rating of various models from .015 pound-inch at 60 rpm to .375 pound-inch at 1/2 or 1 rpm at 60 cycles 115 volts.



Heavy-duty motors, C types
Torque ratings of various C types range from .25 pound-inch at 4 rpm to 2 pound-inches at 1 rpm at 60 cycles 115 volts.



Type IM9 instrument movement
Designed especially for chart drives, but adaptable to most instruments. Terminal shaft speeds from one revolution in 15 minutes to 1 revolution in 30 days. Terminal shaft rotation counter-clockwise.

Telechron

ALL TELECHRON TIMING MOTORS ARE

INSTANTLY . . . CONSTANTLY SYNCHRONOUS

MICRODIAL

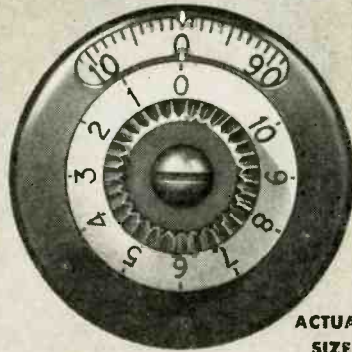
TEN TURN-COUNTING DIAL

Microdial is composed of two concentrically mounted dials... one for counting increments of each turn and the other for counting turns. The incremental dial has 100 equal divisions and is attached rigidly to the shaft so there is no backlash. Thus the contact position is indicated to an indexed accuracy of 1 part in 1000. Rotation is continuous in either direction. There are no stops on the Microdial assembly.

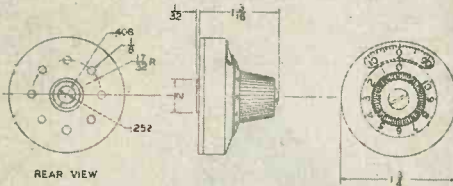
COMPACT... Microdial has same O.D. as Micropot... requires no more panel space.

CLEAR READING... Forced fast-reading tests showed only 1/20th as many errors with Microdial open window as with next most legible dial. Turn counter distinguishes between 0 and 10 turn readings, and accelerates to avoid confusion on readings near integral turns. Precise readings are made from larger dial with maximum separation of graduations and wide angle visibility.

CONVENIENT... delivered completely assembled with dials synchronized. Easily mounted in a few seconds. All dials may be locked.



ACTUAL SIZE



Microdial... turn-counting dial, primarily designed for use on Micropot ten turn linear potentiometers... use it on any multiturn device having ten turns or less.



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Left-center-right 90/150 cps localizer.

Signal source for bench or ramp testing of VHF airborne omnirange and localizer receivers. RF output for ramp checks, 1 volt into 52 ohms; for bench checks, 0-10,000 microvolts. Description and specifications on request.

TYPE H-10
23,500-24,500 mc. RF signal source, CW or pulse frequency-modulated. Equal to military TS-223/AP.

TYPE H-12
900-2,100 mc. RF signal source, CW or pulse amplitude-modulated. Equal to military TS-419/U.

Specifications on request.

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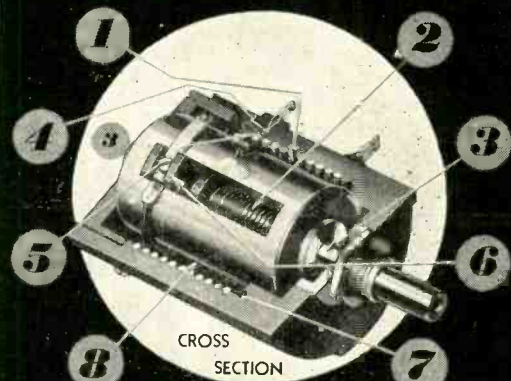
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PRECISION TEN-TURN POTENTIOMETER

1. You get permanent accuracy because the resistance wire is locked in place. It is precision positioned and moulded integrally with the housing.
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5. Terminals soldered to ends of resistance element before moulding. Entire resistance circuit is an integral part of the housing.
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Units for immediate shipment:
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Shipping weight 10 1/2 lbs. complete.

110 - 120 Volts, 50-60 cycles.

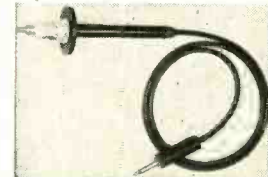
FEATURES OF THE VTVM

1. D.C. Ranges: 0 to 3-10-30-100-300 and 1,000 volts. All ranges have a constant input resistance of 11,000,000 ohms. Accuracy 3%±.
2. A.C. Ranges: 0 to 10-30-100-300 and 1,000 volts. Sensitivity: 1,000 ohms per volt. Accuracy 5%±.
3. Ohmmeter Ranges: 0-1,000 ohms, 0-10,000 ohms, 0-100,000 ohms, 0-1 megohm, 0-10 megohms, and 0-1,000 megohms.
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Overall range up to 30,000 Volts. Calibrated for Electronic Designs VTVM Model 100. Used in Television Circuits, Experimental High Voltage Applications, Industrial Electronics and for Transmitter Power Supplies. Send for full information.



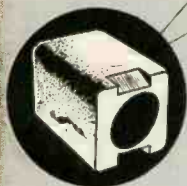
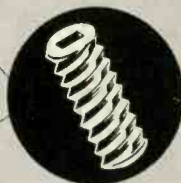
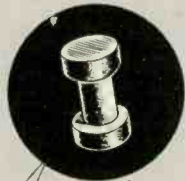
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REFERENCE SHEET SECTION

A popular feature of **ELECTRONICS** since its first issue has been its Reference Sheets... pages that constitute graphical and tabular shortcuts for engineers who design, produce, install and maintain electronic equipment.

21 of these sheets that have proven generally useful over the years are presented again in this book. Many of these have been revised and brought up-to-date. In addition, a complete index of all the engineering Reference Sheets that have appeared in **ELECTRONICS**, since its first issue April 1930, is included in this book.

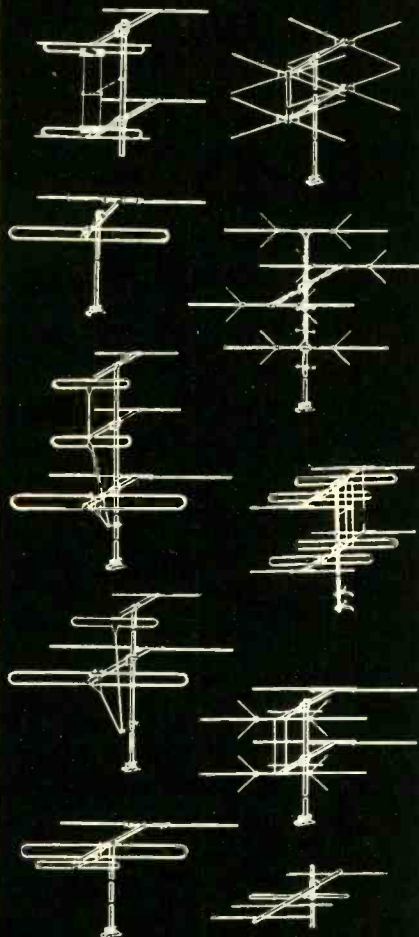
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I-S SPRINGS of beryllium copper can help you

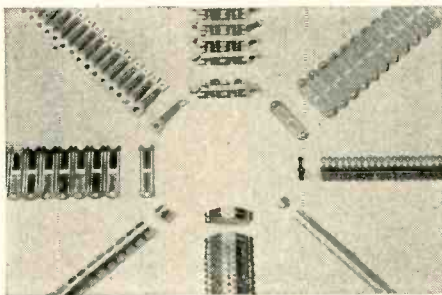
IMPROVE YOUR PRODUCT'S QUALITY, REDUCE YOUR COST, INCREASE YOUR PRODUCTION

Instrument Specialties Company specializes in the design and custom manufacture of age-hardened alloy springs. With our specially developed processes and machines, our engineers are able to

realize the fullest performance potential from the superior spring materials around which I-S service to designers and manufacturers has been developed.

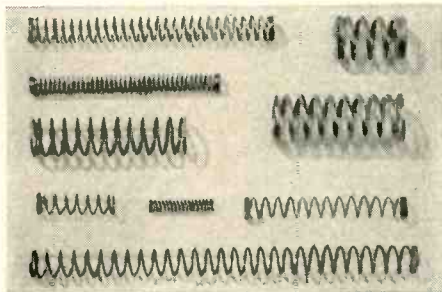


**FOR
HIGH
PRODUCTION**



STRIP SPRINGS

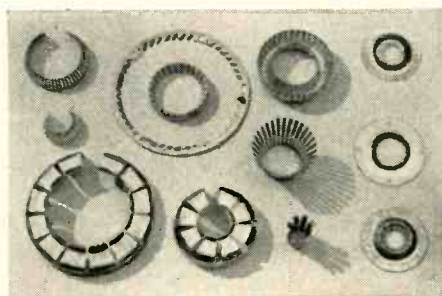
Fabricated from beryllium copper. Easily handled, readily broken apart by hand or used in automatic or semi-automatic assembling devices and contact riveting machines. Individual pieces may be broken off without trace of burr. Eliminate sorting, untangling and handling of loose pieces. Springs may be produced in strips to various shapes; formed angles may be held within plus or minus one degree. Heat treated in multiple fixtures to insure uniformity, close tolerances and elimination of variations in spring-back.



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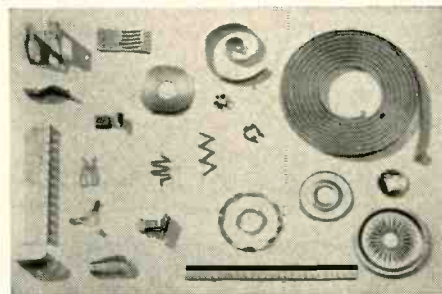
Made from laboratory tested beryllium copper wire. Special coil and heat treating equipment insures 100% uniformity. Guaranteed rigid tolerances held on diameter and load tests at specified deflection. These factors combine to assure increased service life through higher endurance strength—make products perform more consistently by eliminating drift, set or fatigue. Furthermore, they eliminate expensive hand adjustment and reduce inspection costs of finished product.

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We are equipped to supply standard mating parts for use with 2C-39, 2C-40, 2C-43 and 3C-37 tubes, or custom made parts in related fields. Grounding strips and contact fingers can be supplied in standard or special contours. "Flea" contacts for subminiature tubes.



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For those who need quick delivery of parts in pilot quantities or require a low-cost proving ground for spring designs. I-S methods eliminate expensive tooling. Laboratory controlled, precision produced—yet at lower cost than is possible with permanent, high-activity tools. We are equipped to handle conventional stampings in short runs or in high production.



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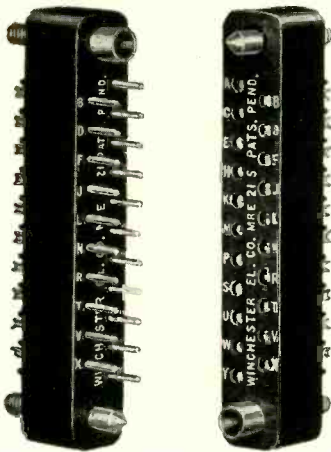
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MRE21S

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SELF-SEPARATING, SELF-ALIGNING CONNECTORS FOR POWER, CONTROL, AND COMMUNICATIONS CIRCUITS

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All contacts are precision machined, and gold plated over silver. Moldings are of melamine for high arc resistance and mechanical strength. Monobloc construction minimizes the number of creepage paths and eliminates the forming of moisture pockets.

COMPLETE CATALOG OF ENGINEERING DATA AVAILABLE. PLEASE SEND REQUEST ON COMPANY LETTERHEAD.

WINCHESTER ELECTRONICS, INCORPORATED

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ELECTRONICS BUYERS' GUIDE — June, 1950 — MID-MONTH

TAPE RECORDERS

Sonar



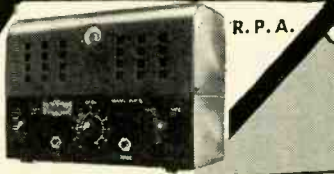
R.P.A.-1

Compare this unit with those costing 2 to 3 times as much R.P.A.-1 net price **\$275.00**
Dual speed -7.5" and 15" per sec. \$50.00 extra.

The RPA amplifier will work with any radio or high fidelity amplifier, to record, play back, or erase tape, using any tape mechanism. Complete **\$45.00**

The R.P.A.-1 is a broadcast, high fidelity tape recorder especially suited to small FM-AM Broadcast stations. Ideally suited for remote recording and feeding a phone line simultaneously, the R.P.A.-1 is equipped with two inputs, one for a low impedance microphone and one for bridging. The output level is 0 db to a balanced 600 ohm line. The frequency response is 7.5" p.s.-30 cycles to 9.5 kc. ± 2.75 db. Built-in earphone monitoring facility. Loud speaker monitoring with a 5" dynamic speaker having its own gain control. The master gain control is calibrated in steps of 2 db. The R.P.A.-1 has a built-in RF filter enabling operation along side high power transmitters and so simple to operate, the personnel need not be an engineer or technically inclined.

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R.P.A.



T-10

Complete with Speaker and power supply (in separate cabinet) and 1200 ft. roll of tape. **\$395.00**
RPA 10 amp. only \$175.00.

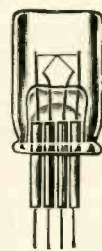
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RADIO CORPORATION

General Offices & Factory: 59 MYRTLE AVE., B'KLYN 1, N. Y.

Type F
Type FI
Type M



Type U



Type R



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- TYPE F, contact type, and TYPE FI, with insulated heater, available in ranges of 1.2 milliamperes and over.
- TYPE M, contact type, 25 MV output, constructed in ranges of 100 milliamperes and over.
- TYPE U, with insulated heater, for measurements at ultra-high frequencies, made in ranges of 3 milliamperes and over. Streamlined to make convenient use in coaxial cables or fittings possible.
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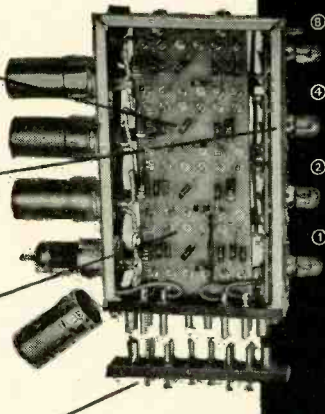
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Four large, easy reading, bulls-eye glow lamps - replaceable socket type

All components turret-peg mounted and accessible . . . all wiring color coded

Special silver plated, self-aligning contact and rigid connectors for positive mechanical mounting



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and allied products...
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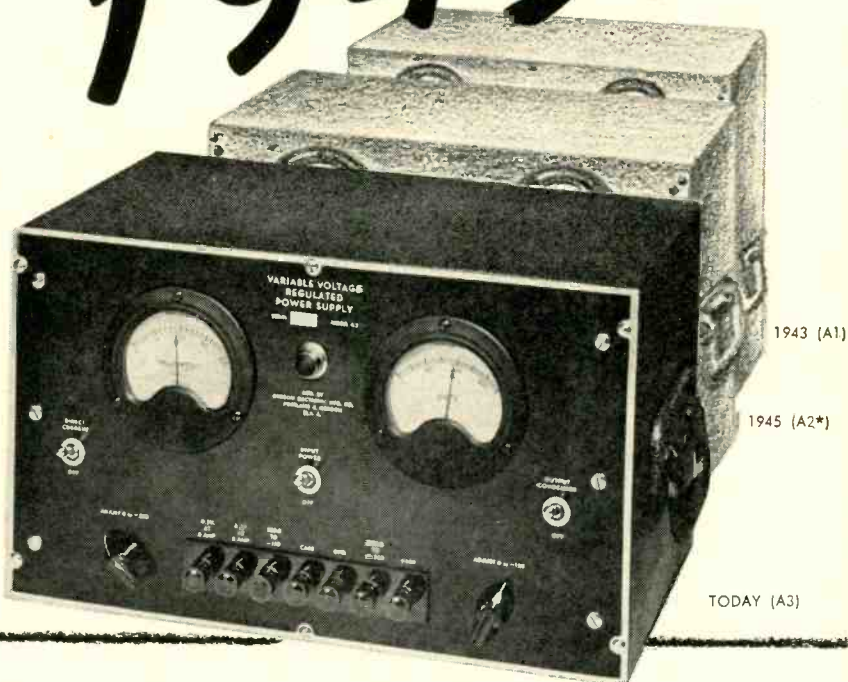
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Oregon ELECTRONICS
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RMC DISCAPS

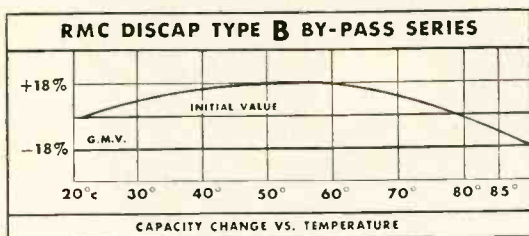
The Newest Development In Miniature Ceramic Condensers

TYPE B-GMV BY-PASS SERIES

EXCEED GMV CAPACITY AT 85°C

Type B—GMV DISCAPS are engineered to exceed guaranteed minimum capacity at 85°C with 250 applied D.C.V. Capacity change between room temperature and 65°C is only +18%, -0%. This accomplishment in a small practical size results in a decidedly more effective by-pass at the higher frequencies encountered in TV and FM applications.

DISCAPS in the Type B—GMV Series are available in all standard capacities from .001 MFD. to .01 MFD. and in dual capacities from 2 x .001 MFD. to 2 x .01 MFD. Approval by leading makers of TV sets and tuners, as well as by manufacturers of specialized high frequency equipment is proof of DISCAP superiority.



TYPE GP INSULATED DISC

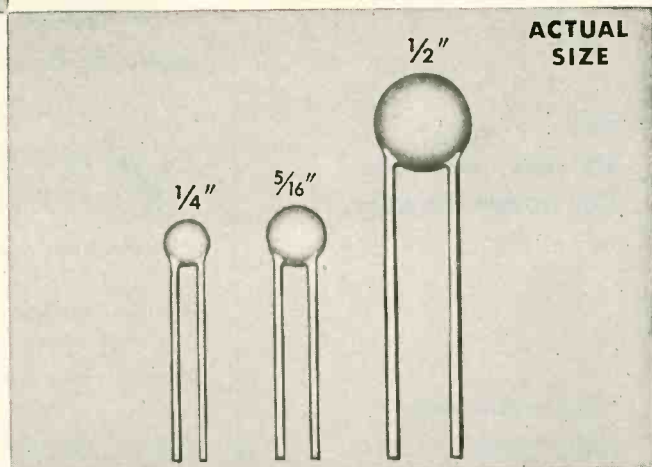
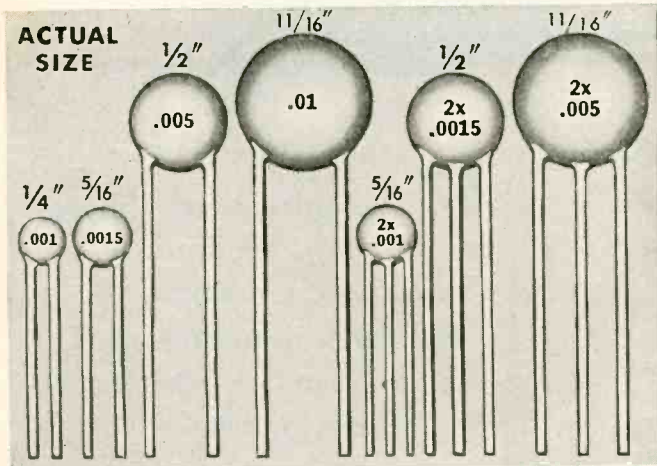
GENERAL PURPOSE LOW CAPACITY SERIES

The new GP Series DISCAPS offer for the first time a disc type general purpose zero or negative 750 temperature coefficient disc condenser ideally suited to coupling and tuned circuit applications.

GP Series DISCAPS feature small size, low self inductance, higher working voltage (600 V.D.C.), low power factor, greater mechanical strength and faster production line handling. Their low cost, plus their inherent quality characteristics make GP Series DISCAPS attractive to all manufacturers of high frequency equipment. Type GP Series DISCAPS are available in a variety of capacities and tolerances to suit most every requirement.

Type	CAP. MMF. 1/4" Body Dia.	CAP. MMF. 5/16" Body Dia.	CAP. MMF. 1/2" Body Dia.
NPO		5-10	15-20-25-30
N750	5-10	20-25-30	50-75-100-125

Available Tolerances: ±5%, ±10%, ±20%



Every DISCAP is 100% Tested for Capacity, Leakage Resistance and Breakdown

RMC production checks eliminate costly service failures. Because RMC produces the complete condenser, even to the processing of the dielectric element itself, it is possible to exercise the finest quality control. Yes, DISCAPS are definitely better!

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DISCAP
CERAMIC
CONDENSERS

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RADIO MATERIALS CORPORATION

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**KEEP YOU AHEAD
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Again and again, E-V research has been way ahead in ideas...to keep E-V Distributors way ahead in sales. Among E-V microphone firsts are the new slim, trim TV 655...the Broadcast 650, 645 and 635...the high fidelity 630...the 950 Dual Response Cardax...the plus-value Mercury...the unique Century...the Mobile Mikes...the noise-cancelling Differential. Also such innovations as the Acoustalloy Diaphragm...Speech Clipper...Touch-to-Talk Stand...Button-Control Floor Stand...Blast Filter. They serve all fields...top new markets.

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TUNGSTEN RIBBON

SIZES:

Widths from .004" up to .125"
Thicknesses from .040" down to .001"

Down to .0008" at widths up to .060"
Down to .0005" at widths up to .040"
Down to .0002" at widths up to .006"
Tungsten ribbon made to above sizes is manufactured from round, ductile wire.
CHEMICAL PURITY: 99.9% pure
FINISH: Roll finish—black or cleaned
CAMBER: Approximately 1/16" in 2' lengths
EDGES: Slightly rounded and smooth

TOLERANCES:

Thicknesses: .0005" to .001" ± .00005"
.002" ± .0001"
.003" ± .00015"
.004" ± .0002"
.005" to .006" ± .00025"
.007" to .010" ± .00035"
.011" to .030" ± .0005"
.031" to .040" ± .001"
Widths: .006" to .010" ± .0005"
.011" to .020" ± .001"
.021" to .030" ± .0015"
.031" to .060" ± .002"
.061" to .093" ± .003"
.100" to .125" ± .005"

Supplied to mg. wgt.—if required.

STRIP

Widths up to 1½" with thickness down to .001" in random lengths 6" and up. This is rolled from heavy strip.

THORIATED

Widths up to .125" down to .001" thick
Widths up to ½" down to .002" thick
Wgt. per Sq. In. at .001" Thickness is 0.316 Grams

MOLYBDENUM RIBBON

SIZES:

Widths from .006" up to .250"
Thicknesses from .060" down to .0006"

Molybdenum Ribbon made to above sizes is manufactured from round, ductile wire.

CHEMICAL PURITY: 99.9% pure

FINISH: Roll polished finish, cleaned

CAMBER: Approximately 1/16" in 2' lengths

EDGES: Slightly rounded and smooth

TOLERANCES:

Thicknesses: .0006" to .001" ± .00004"
.0011" to .010" ± .00025"
.011" to .030" ± .0003"
.031" to .060" ± .0005"
Widths: .006" to .010" ± .0005"
.011" to .020" ± .001"
.021" to .030" ± .0015"
.031" to .090" ± .002"
.091" to .125" ± .003"
.126" to .160" ± .0035"
.161" to .250" ± .005"

Supplied to mg. wgt.—if required.

STRIP

Widths up to 2" with thicknesses down to .001" in random lengths 6" and up. This is rolled from heavy strip.

Wgt. per Sq. In. at .001" Thickness is 0.167 Grams

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Protect product saleability too — by insuring long life for cords, cables and conductors. Genuine "GRIPMASTER" Strain Reliefs provide these vital features—

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- ★ Eliminate taping or threading
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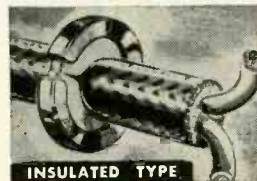
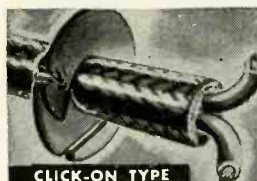
Gripmaster Strain Reliefs are "tremendous trifles" that make good products better!

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Economically

GRIPMASTER STRAIN RELIEFS



WIRE BINDING SLEEVES—Preventing fraying of cord ends, these specially-treated rubber tubes are available in five sizes to fit wires to .790



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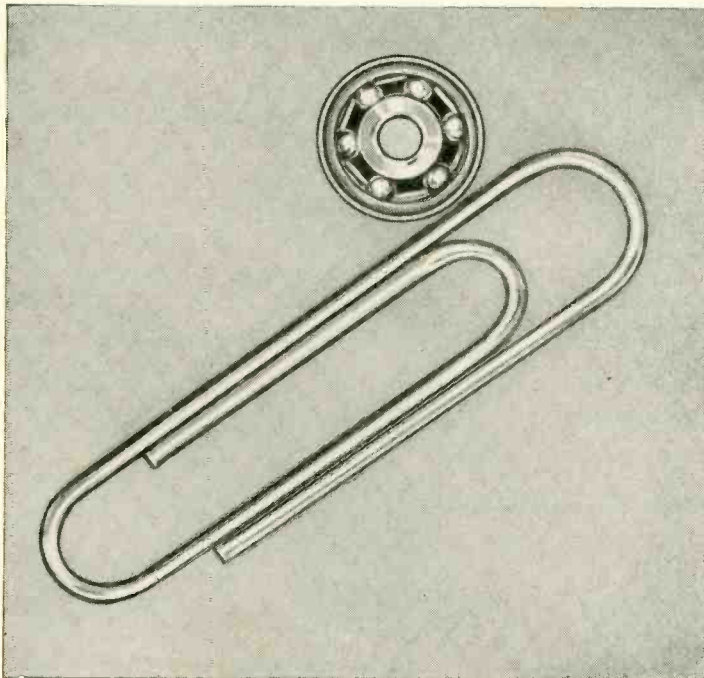
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RESULT: The smooth performance and accurate geometry of GROUND Bearings is now available in sizes as small as 1 mm (.040") bore x 1/8" O.D., with the millionths inch refinement of ABEC-7.

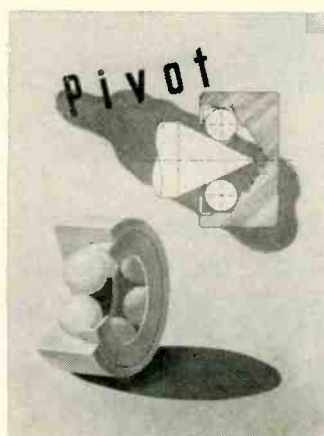
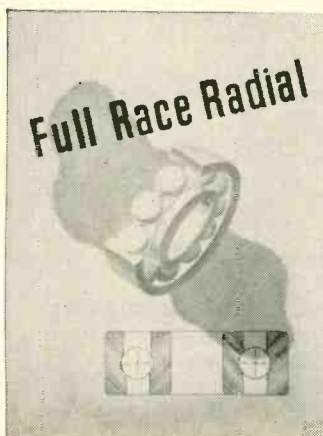
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New Hampshire *Micro* Ball Bearings, Inc.

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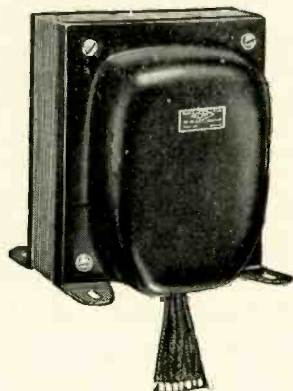
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Acme Electric

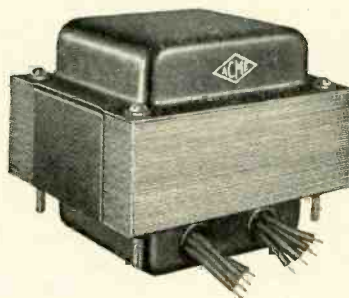
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Acme Electric transformers are the silent partners in many of the miracle making electronic products that operate because of decimal point specifications. Whenever specifications are written to close tolerances, Acme Electric transformers will prove to be your best buy.

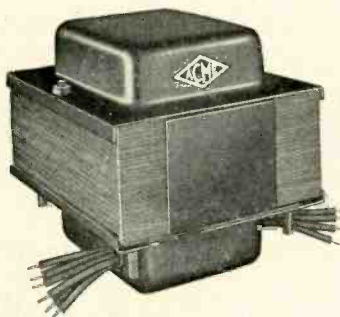
Our engineering staff will work with you to help make your product better thru better transformer performance.



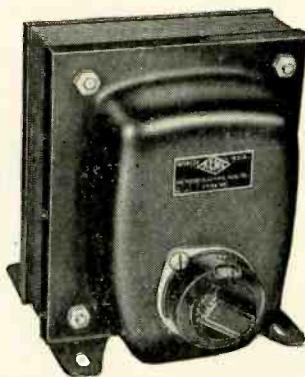
Mounting type 131 with endbells, can be built in capacities from 35 to 500 VA from standard parts.



Television power transformer with copper shunting band.



Special transformer core clamping method. Permits flush chassis mounting.



Mounting type 141 with endbells and primary tap changer on front. Ratings from 35 to 500 VA available.

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31 BG Water St. Cuba, N. Y.

Acme Electric
TRANSFORMERS

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for accurate frequency stabilization

Housings available for from 1 to 5 std crystal units.

- Current drain — .85 to 2 amps @ 6V
- Operating temp — 40 to 90°C
- Operating voltages — 6, 12, 24, or 28 VAC or DC
- Stability — $\pm 2^\circ\text{C}$ to $\pm 3^\circ\text{C}$ (-55 to $+90^\circ\text{C}$)
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- Thermostats — platinum iridium contacts
— single or dual units
— hermetically sealed

HSM type CRYSTALS for accurate frequency control of LF, MF, HF, and UHF — Wire or pressure mounted-hermetically sealed

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- Frequency calibration — .02% to .0005%
- Frequency stability .02% to .003% (-55 to $+90^\circ\text{C}$ — without oven)
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- Resistance — as low as 10 ohms
- Specifications — CAA, FCC, JAN or commercial

PM type CRYSTALS for accurate frequency control of MF and HF. Pressure or spacer mounted between stainless steel electrodes and sealed in phenolic holders.

- Frequency range — 250 kc to 30 mc
- Frequency calibration — .02% to .001%
- Frequency stability — .02% to .005% (-55 to $+90^\circ\text{C}$)
- Mountings — std $\frac{1}{2}$ ", $\frac{3}{4}$ ", 3 prong or octal
- Specifications — CAA, FCC, JAN or commercial

FREQUENCY MEASURING EQUIPMENT for fast accurate measurements

- Secondary Standards
- UHF Converters
- Audio Frequency Meters
- Crystal Controlled Oscillators
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ULTRASONIC CRYSTALS — plated resonators for generators and receivers.

- Frequency range — 250 kc to 30 mc
- Frequency calibration — 2% to .005%
- Type of crystals — X-cut quartz or tourmaline
- Plating — aluminum, chromium, copper, gold, nickel or silver
- Lateral dimensions — 1 cm to 10 cm dia or sq.
- Surfaces — plano, plano-concave, or concave-convex
- Contours — 5 cm to 100 cm radius of curvature
- Finishes — etched or polished

ULTRASONIC EQUIPMENT — Complete for experimental or production work.

- Generators — .2 to 3 kw
- Impedance Matching Networks — high impedance
- Crystal Transducers — 60 kc to 30 mc — for use in conducting or non-conducting liquids.

OPTICAL CRYSTALS — fabricated to customer specifications for any optical application.

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800

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ELECTRONIC COMPONENTS
and
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willing to serve you.

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New R&S AUTOMATIC LOCKING Midget EVER-LOK
PLUGS, RECEPTACLES & CORD CONNECTORS
FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS

Small size solves space problems. Typical uses: business offices, institutional buildings, industrial plants, etc. Adaptable as component for portable electrical equipment: electric machine tools, communication and sound equipment, X-ray apparatus, etc. Embody all dependable features of larger Ever-Lok units, plus advanced improvements.

TO Amp. 250 V.
15 Amp. 125 V.
A.C. or D.C.

1. Spring hinged, gasketed covers close receptacle when not in use.
2. Plated steel housings fully protect the contacts.
3. Adjustable Cord Grips eliminate strain on connections.
4. Contacts are precision-made, self-wiping, and self-aligning.
5. Rigidly constructed, all interiors of molded arc-resisting composition.
6. Heat-treated beryllium copper contacts and terminals . . . an advanced EVER-LOK feature.
7. Compact design provides ample capacity, yet allows for easy wiring.



New 12-page catalog fully describes all types, dimensional drawings, ordering information, etc. Ask for catalog EL49-6.

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- Adaptable as components for:
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For All Your Electronic Wire Requirements!

TRANSMISSION LINE CABLES

Applications

72-Ohm cable for use with receiving antennas—high frequency.

100-Ohm cable for use with receiving antenna, link connection, matching transformer. Also for experimental use at high frequency.

150-Ohm cable for use with receiving antenna, matching transformer and high frequency experimental applications.

300-Ohm for use with FM and Television receiving antenna.

300-Ohm heavy-duty cable. Same applications as above and also for low power transmitting antenna.

300-Ohm shielded cable. FM and Television lead adaptable to noisy locations.

3, 4 & 5 Conductor Antenna rotator control cable.

75-Ohm cable for use with doublet receiving antenna—low frequencies.

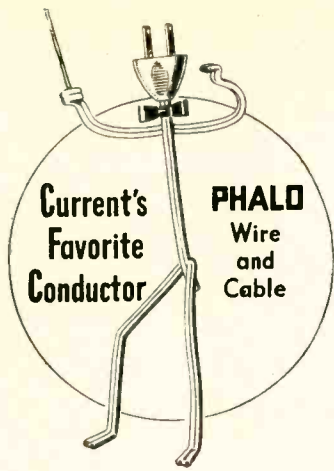
Same as above with added shield to reduce noise pick-up.

72-Ohm coaxial cable for television antenna.

52-Ohm cable for pulse and radio frequency transmission, television.

75-Ohm coaxial low loss.

For extension speakers, control circuits and low frequency doublet receiving antenna.



Multiple Conductor Paired and Unpaired Cables



For telephone and telegraph communication systems.

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Cables for Intercommunicating and Public Address Systems

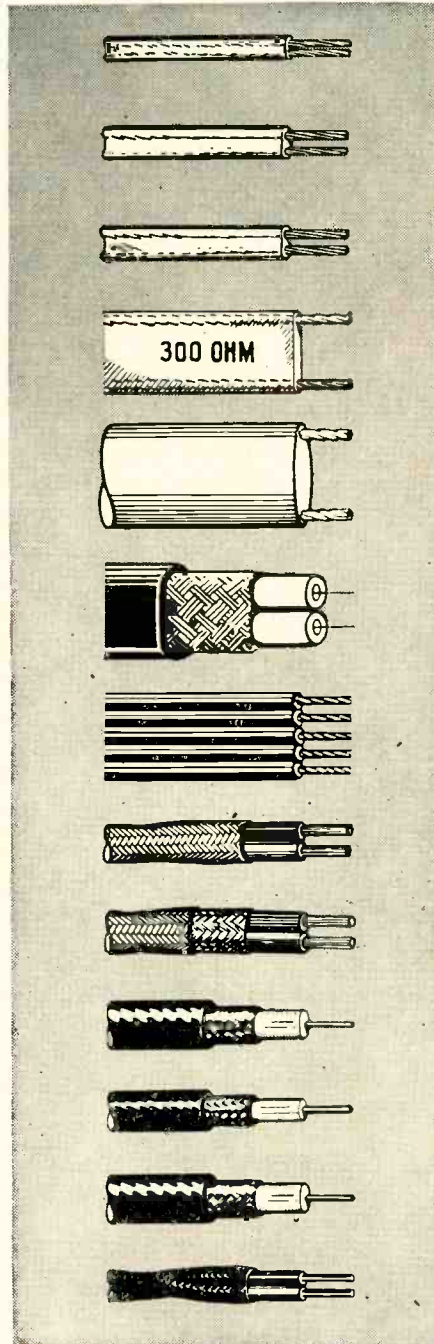
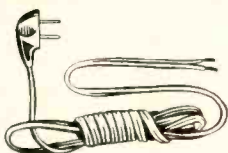


Three flexible stranded tinned copper conductors, vinyl plastic insulation; color-coded, cabled conductors; tinned copper braid shield; over-all cotton braid jacket.



One pair solid tinned copper conductors, vinyl plastic insulation, color coded; cabled construction; over-all cotton braid jacket.

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Cord Sets, Harness Assemblies, Special Assemblies, Multi-Conductor Cables, Shielded Wires for High Frequency Applications. PHALO for special wire requirements.

Hook up wires UL approved for 80°C, 90°C and 105°C operating temperatures.

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PHALO PLASTICS CORPORATION
Graphic Arts Building, Worcester, Massachusetts

PLASTICON CAPACITORS

HI VOLT POWER SUPPLIES



Designed to transform 118V AC to high voltage—low current DC for use in radiation counters, oscilloscopes, dust precipitators, projection television sets, spectrographic analyzers, photoflash equipment, etc. Hi Volt Power Supplies are self-contained in hermetically sealed steel containers.

Cat. No.	VDC	Dimensions	List Price
PS-2	2400	3 3/16 x 3 3/4 x 5 1/2"	\$25.75
PS-5	5000	4 9/16 x 3 3/4 x 6 1/2"	65.00
PS-10	10000	4 9/16 x 3 3/4 x 8"	100.00
PS-15	15000	7 x 7 x 7 13/16"	250.00
PS-30	30000	7 x 7 x 7 13/16"	250.00
PS-50	50000	12 1/2 x 12 1/2 x 12 1/2"	775.00

Send us your specifications on 400-2800 cycle input, DC output Power Supplies. Large savings in volume and weight can be made over the 60 cycle sizes.

Battery input, high voltage DC output Supplies can also be furnished. Write for information on the PS1B; designed to power Geiger Counters from flashlight cells.

PLASTICONS

By the use of synthetic plastic film dielectrics, PLASTICONS can be made smaller, lighter, more efficient and more economical than older types of capacitors made with paper and mica insulation. Plasticon films are chemically purer and more uniform. Plasticon capacitors have a longer life and can operate under more severe conditions.

SPECIAL PLASTICONS

Taking advantage of the wide variety of plastic film dielectric characteristics, Plasticons are engineered to meet many special applications, among which are the following:

ENERGY STORAGE: Type AOCE are the lightest, smallest discharge capacitors available. Standards range from 7.6 Watt seconds at 2250V to 200 Watt seconds at 4000V. Specials up to 250kv are made to specifications.

HIGH TEMPERATURE: Plasticon TA and TS capacitors can be furnished for 200° C operation.

ZERO COEFFICIENT: Plasticon Type (AL) can be furnished from +800 to -800 parts per million per degree Centigrade.

HIGH RESISTANCE: Plasticon Type FA is available in resistance up to 10¹⁷ ohms. Type FS measures 10¹³ ohms at 4000V.

PULSE FORMING NETWORKS: Type TS and LS made to specifications for Type E PFN's. Smaller and lighter than paper capacitor networks. Type TS PFN's operate up to 150° C. Type LS networks up to 75° C.

GLASSMIKES ASG



Type ASG are Plasticon A film-silicone fluid impregnated capacitor elements in hermetically sealed glass tubes. Temperature range 60° C to ± 125° C. The smallest and lightest high voltage capacitors made. Type ASG are ideal for DC and low frequency AC applications. Temperature derating information on request.

Cat. No.	Cap. Mfd.	Volts D.C.	Dimensions	List Price
ASG 1	.01	600	1 1/2 x 1 1/2"	\$1.50
ASG 2	.02	600	1 1/2 x 1 1/2"	1.60
ASG 3	.05	600	1 1/2 x 1 1/2"	1.75
ASG 4	.1	600	1 1/2 x 1 1/2"	1.95
ASG 5	.25	600	1 1/2 x 2 1/2"	2.25
ASG 6	.5	600	1 1/2 x 2 1/2"	2.60
ASG 7	.005	1,000	1 1/2 x 1 1/2"	1.50
ASG 8	.01	1,000	1 1/2 x 1 1/2"	1.60
ASG 9	.02	1,000	1 1/2 x 1 1/2"	1.75
ASG 10	.05	1,000	1 1/2 x 1 1/2"	1.85
ASG 11	.1	1,000	1 1/2 x 2 1/2"	2.15
ASG 12	.25	1,000	1 1/2 x 2 1/2"	2.50
ASG 13	.002	2,000	1 1/2 x 1 1/2"	1.90
ASG 14	.005	2,000	1 1/2 x 1 1/2"	2.05
ASG 15	.01	2,000	1 1/2 x 1 1/2"	2.25
ASG 16	.02	2,000	1 1/2 x 1 1/2"	2.50
ASG 17	.05	2,000	1 1/2 x 1 1/2"	2.80
ASG 18	.1	2,000	1 1/2 x 2 1/2"	3.20
ASG 19	.25	2,000	1 1/2 x 2 1/2"	3.70
ASG 20	.001	3,000	1 1/2 x 1 1/2"	5.15
ASG 21	.002	3,000	1 1/2 x 1 1/2"	5.25
ASG 22	.005	3,000	1 1/2 x 1 1/2"	5.40
ASG 23	.01	3,000	1 1/2 x 1 1/2"	5.60
ASG 24	.02	3,000	1 1/2 x 1 1/2"	5.85
ASG 25	.05	3,000	1 1/2 x 2 1/2"	6.15
ASG 26	.1	3,000	1 1/2 x 2 1/2"	6.50
ASG 27	.001	5,000	1 1/2 x 1 1/2"	6.50
ASG 28	.002	5,000	1 1/2 x 1 1/2"	6.70
ASG 29	.005	5,000	1 1/2 x 1 1/2"	6.95
ASG 30	.01	5,000	1 1/2 x 1 1/2"	7.25
ASG 31	.02	5,000	1 1/2 x 2 1/2"	7.65
ASG 32	.05	5,000	1 1/2 x 2 1/2"	8.15
ASG 33	.1	5,000	1 1/2 x 3 1/2"	9.10
ASG 34	.001	7,500	1 1/2 x 1 1/2"	7.00
ASG 35	.002	7,500	1 1/2 x 1 1/2"	7.25
ASG 36	.005	7,500	1 1/2 x 1 1/2"	7.55
ASG 37	.01	7,500	1 1/2 x 1 1/2"	8.15
ASG 38	.02	7,500	1 1/2 x 2 1/2"	9.25
ASG 39	.05	7,500	1 1/2 x 2 1/2"	11.50
ASG 40	.0005	10,000	1 1/2 x 1 1/2"	7.30
ASG 41	.001	10,000	1 1/2 x 1 1/2"	7.50
ASG 42	.002	10,000	1 1/2 x 1 1/2"	7.80
ASG 43	.005	10,000	1 1/2 x 1 1/2"	9.00
ASG 44	.01	10,000	1 1/2 x 2 1/2"	10.50
ASG 45	.02	10,000	1 1/2 x 2 1/2"	12.50
ASG 46	.03	10,000	1 1/2 x 3 1/2"	15.00
ASG 60	.06	10,000	1 1/2 x 3 1/2"	17.50
ASG 47	.0005	15,000	1 1/2 x 2 1/2"	14.50
ASG 48	.001	15,000	1 1/2 x 2 1/2"	14.80
ASG 49	.002	15,000	1 1/2 x 2 1/2"	15.50
ASG 50	.0005	20,000	1 1/2 x 3 1/2"	19.50
ASG 51	.001	20,000	1 1/2 x 3 1/2"	20.50
ASG 52	.0005	30,000	1 1/2 x 3 1/2"	22.50

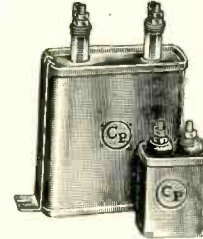
RF GLASSMIKES



Plasticon L film-silicone fluid impregnated in Glassmike style case. Type LSG has Q of 2500 to 5000. Rated at 3500 WV-7500 V Test. Lower losses, more easily mounted, smaller and more economical than mica capacitors. Higher voltage LSG's on request.

Cat. No.	Cap. Mfd.	Dimensions OD Length	List Price
LSG500	.00005	1 1/2 x 1 1/2"	\$1.50
LSG101	.0001	1 1/2 x 1 1/2"	1.50
LSG251	.00025	1 1/2 x 1 1/2"	1.50
LSG501	.0005	1 1/2 x 1 1/2"	1.50
LSG102	.001	1 1/2 x 1 1/2"	1.70
LSG202	.002	1 1/2 x 1 1/2"	2.45
LSG502	.005	1 1/2 x 1 1/2"	3.50
LSG602	.006	1 1/2 x 1 1/2"	3.75
LSG103	.01	1 1/2 x 1 1/2"	4.25

INDUSTRIAL and TRANSMITTING



Plasticon A element; mineral oil impregnated in sturdy lead coated steel containers. Smaller lighter and more economical than paper capacitors. Temperature range — 40° C to ± 105° C. Type AOC rectangular; Type AOC flattened oval Type ASC and ASCO (not listed) have Plasticon A element, silicone impregnated. Same dimensions as corresponding AO types. Temperature range — 60° C to ± 125° C; greater capacitance stability. Prices on application. Temperature derating information on request.

DC RECTANGULARS

Cat. No.	Cap. Mfd.	Volts DC	Dimensions	List Price
AOC6C1	1.0	600	2 1/2 x 1 1/2 x 1"	\$3.74
AOC6C2	2.0	600	2 3/4 x 1 1/2 x 1"	4.51
AOC6C4	4.0	600	3 1/2 x 2 1/2 x 1 1/2"	5.61
AOC6C8	8.0	600	4 x 3 1/2 x 1 1/2"	8.47
AOC6C10	10.0	600	4 1/2 x 3 1/2 x 1 1/2"	9.52
AOC1M1	1.0	1,000	2 1/2 x 1 1/2 x 1"	4.02
AOC1M2	2.0	1,000	4 x 1 1/2 x 1"	5.39
AOC1M4	4.0	1,000	4 x 2 1/2 x 1 1/2"	6.54
AOC1M8	8.0	1,000	4 1/2 x 3 1/2 x 1 1/2"	9.24
AOC1M10	10.0	1,000	4 1/2 x 3 1/2 x 1 1/2"	10.67
AOC2M0.1	0.5	2,000	2 1/2 x 1 1/2 x 1"	4.84
AOC2M1	1.0	2,000	3 1/2 x 1 1/2 x 1"	5.88
AOC2M2	2.0	2,000	3 1/2 x 2 1/2 x 1 1/2"	6.82
AOC2M4	4.0	2,000	3 1/2 x 3 1/2 x 1 1/2"	9.24
AOC3M1	1.0	3,000	4 x 2 1/2 x 1 1/2"	12.10
AOC3M2	2.0	3,000	4 x 3 1/2 x 1 1/2"	15.40
AOC3M4	4.0	3,000	4 1/2 x 3 1/2 x 2 1/2"	21.28
AOC4M1	1.0	4,000	4 x 3 1/2 x 1 1/2"	27.50
AOC4M2	2.0	4,000	4 x 3 1/2 x 1 1/2"	33.00
AOC4M4	4.0	4,000	4 x 3 1/2 x 4 1/2"	50.44
AOC5M1	1.0	5,000	4 x 3 1/2 x 1 1/2"	33.00
AOC5M2	2.0	5,000	3 1/2 x 3 1/2 x 4 1/2"	41.25
AOC75C1	1.0	7,500	3 1/2 x 3 1/2 x 4 1/2"	49.50
AOC10M1	1.0	10,000	4 x 3 1/2 x 4 1/2"	88.00

DC OVALS

Cat. No.	Cap. Mfd.	Volts D.C.	Dimensions	List Price
AOCO6C2	2.0	600	2 3/4 x 2 1/2 x 1 1/2"	\$4.40
AOCO6C4	4.0	600	4 x 2 1/2 x 1 1/2"	5.28
AOCO1M1	1.0	1,000	2 1/2 x 1 1/2 x 1 1/2"	3.85
AOCO1M2	2.0	1,000	3 1/2 x 1 1/2 x 1 1/2"	5.17
AOCO3M01	0.1	3,000	2 1/2 x 2 1/2 x 1 1/2"	7.59
AOCO5M01	0.1	5,000	2 1/2 x 2 1/2 x 1 1/2"	14.08
AOCO5M025	0.25	5,000	3 1/2 x 2 1/2 x 1 1/2"	15.40
AOCO5M05	0.5	5,000	4 1/2 x 2 1/2 x 1 1/2"	18.15
AOCO8M005	0.05	8,000	2 1/2 x 2 1/2 x 1 1/2"	15.18
AOCO8M01	0.1	8,000	3 1/2 x 2 1/2 x 1 1/2"	16.72
AOCO10M005	0.05	10,000	3 1/2 x 2 1/2 x 1 1/2"	19.25

LABORATORY CAPACITORS

Type LAG (Glassmike style) and Type LAC (Rectangular can) have the lowest dielectric absorption of any capacitor made. Residual charge is .01 — .02%. Dissipation factor at 1 MC is .0002 to .0003. Capacitance and Q is constant from DC to 100 KC. Resistance averages one million megohms per microfarad. Capacitance tolerances available: ± 5%, ± 2%, and ± 1%. Type LA units are used for computers and in timing and integrating circuits.

Cat. No.	Cap. Mfd.	Dimensions
LAG101	.0001	1 1/2 x 1 1/2"
LAG201	.0002	1 1/2 x 1 1/2"
LAG501	.0005	1 1/2 x 1 1/2"
LAG102	.001	1 1/2 x 1 1/2"
LAG202	.002	1 1/2 x 1 1/2"
LAG502	.005	1 1/2 x 1 1/2"
LAG103	.01	1 1/2 x 1 1/2"
LAG203	.02	1 1/2 x 1 1/2"
LAG503	.05	1 1/2 x 1 1/2"
LAC104	.1	2 1/4 x 1 1/2 x 1"
LAC204	.2	2 1/4 x 2 1/2 x 1 1/2"
LAC504	.5	4 x 2 1/2 x 1 1/2"
LAC105	1.	4 x 3 1/2 x 1 1/2"
LAC205	2.	4 x 3 1/2 x 2 1/2"
LAC505	5.	6 x 3 1/2 x 4 1/2"

Prices Upon Application

Condenser Products Company

CHICAGO 22, ILLINOIS

VIBRATION DETECTION EQUIPMENT

Sono-Probe: A three-stage electronic amplifier with contact probe pick-up unaffected by airborne noise, supplied with both meter and earphones for quantitative and qualitative vibration analysis.

Use is indicated for quality control and production testing of industrial units, assemblies and sub-assemblies, as well as household appliances, where noise and vibration are present.

Simplified operation permits use by non-technical personnel.

Available in Bench Model SR and SRA, for 60-cycle, 115-V, A-C; Also battery operated Portable Model.

Sono-Probe Correlator: a constant frequency signal source, with metered output, permitting positive return to previously established standards of acceptability. Also useful in correlating more than one vibration detection instrument (Sono-Probe or other manufacture) for tracking purposes.

Magneto Synchronizer: Standard tool for synchronizing dual ignition systems.

Specialized equipment for vibration analysis as a guide to use of machine capacity (for time study); for electronic control of automatic machinery; and other applications.

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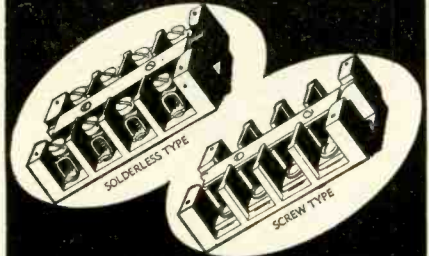
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AVAILABLE IN
4, 8 and 12 Circuit Sizes
in both SCREW and SOLDERLESS types



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Also Available: - Covers, with attaching screws
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Performance proved for precision and long life by world's leading makers of electrical, aircraft and timing instruments; compasses; weather recorders; all testing, indicating and recording apparatus.

Unset or set in screws or bushings to suit requirements. Write for brochure.

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Immediately following the
Product Listings in the

DIRECTORY SECTION

of this Issue

is a list of more than

2500

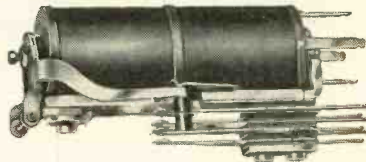
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For all types of Automatic Controls, Keying, Antenna Changeover, Burglar Alarms, Closed Circuit Applications.



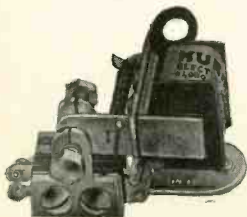
Class A (all other types available)

TELEPHONE Class A—Multicontact . . . Pin Hinge. Complete range of contacts up to 28 Springs. Wide variety of contact materials. Can be provided for slow operate, slow release, or slow acting. 4 x 1-7/32 x 1-5/8".

Sensitive Miniature Relay—Series 43 . . . Suitable for use in plate circuit and other control applications where low current consumption, small size, and adjustable contacts are important factors. DC sensitivity 30 to 18 milliwatts. Balanced armature. Contacts available—single pole double throw; also available in dust proof 5-prong container.

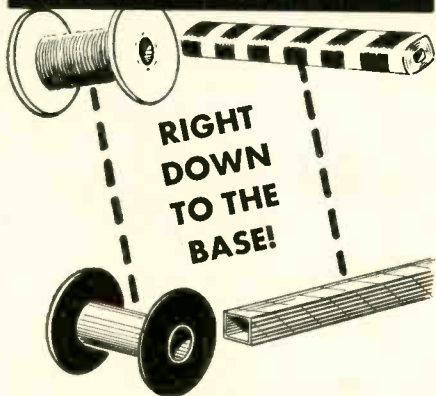
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KURMAN ELECTRIC CO., INC.
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Series 43

BE SURE your coils are accurate



**RIGHT
DOWN
TO THE
BASE!**

PRECISION PAPER TUBES



Die-formed under heat and pressure for greater uniformity, greater strength, less weight. No need for forming after winding. Automatic stacking. Made of finest dielectric kraft, fish paper, cellulose acetate or combinations—any shape, size, ID, OD—engineered exactly to your specifications. More effectively resist moisture, oil and heat. Cost you less. Send today for samples, new mandrel list of 1,000 sizes.

PRECISION BOBBINS



Need no insulation strips, permit closer winding, stronger magnetic field. Afford lower moisture absorption. Spiral winding, heavy heat-treated compression, swaged tube-ends securely locked, overall impregnation are the reasons. Cores in any shape or length. Flanges embossed or recessed . . . die-cut in any size or shape . . . with slots and/or holes for terminal wiring. Write today for samples in dielectric kraft, fish paper, cellulose acetate, combinations. Ask for mandrel list—many new sizes.

PRECISION PAPER TUBE CO.

2041 W. Charleston St. Chicago 47, Ill.
Plant No. 2, 79 Chapel St., Hartford, Conn.

HICKOK



Radio, Television and Electronic Instruments



**PROFESSIONAL
DYNAMIC
MUTUAL
CONDUCTANCE
TUBE TESTER**
Model 539

Tests all latest tubes (in micromhos) including ruggedized types. Choice of 3 AC grid signals: .25, .5 and 2.5 volts. Extra large power transformer for accurate tests on high drain tubes. Provision for self-bias. Can insert plate milliammeter for measuring plate current. Tests for gas, leakage and noise.



**ALL-BAND
MICROVOLT
SIGNAL
GENERATOR**

Model 292-X

125 kc to 120 mc; 150 to 220 mc on fundamentals. Modulated and unmodulated output: 1 to 100,000 microvolts. Crystal oscillator available for accuracy to .005% in 152-162 mc, range.

Model 465 TELEVISION DC KILOVOLT METER

Measures to 30,000 volts. Double range, low current drain. 10,000 ohms per volt sensitivity. Well insulated phenolic case for operators protection.

Model 610-A COMPLETE ALIGNMENT GENERATOR

Markers for all IF frequencies. Marker accuracy—0.5%. Fully attenuated. 4.5 mc crystal included. Aligns RF channels 2 thru 13 & all traps.



Model 209-A

ELECTRONIC VOLT-OHM-CAPACITY MILLIAMMETER

Peak-to-peak or RMS voltage measurements. RF readings to 300 megacycles. Volts, AC-DC; and Mils DC: 0-3, 12, 30, 120, 300, 1,200. Ohms: .1 ohm to 10,000 megohms—8 ranges. Cap.: 0-10,000 mmf in 2 ranges, 0-1,000 mf in 5 ranges. Ind.: 50 mh to 100 henries.

GENERAL PURPOSE 5" OSCILLOSCOPE



Model 195-B

Sensitivity: .015 volts per inch. Wide band amplifiers to 1 mc. Vertical input impedance, 1 megohm, 25 mmf Demodulator circuit. Blanking control. Sinusoidal sweep with phasing control.

Model 620—TELEVISION LINEARITY PATTERN GENERATOR

Checks relative receiver sensitivity. Provides for checking and aligning of . . . Horizontal and vertical linearity and drive, width, height and hold controls; and horizontal AFC circuits. All independent of TV transmitter.

250° Meters—Long scale, compact and accurate indicating instruments for limited-space applications. Uniform scale, easily read to extreme accuracy. Available in DC, rectifier and thermocouple types.

WRITE TODAY FOR COMPLETE INFORMATION

THE HICKOK ELECTRICAL INSTRUMENT CO.
10527 Dupont Avenue Cleveland 8, Ohio

The Standard of Quality for Forty Years

**Precision made
to highest standards
in the television industry . . .**



**THOMAS offers
engineers a challenge!**

Compare Thomas television tubes with any others on the market and see the difference! Twenty-eight separate tests are given Thomas cathode ray tubes before they leave the plant. Thomas has set the most critical examination to ensure the best. For the finest picture, use the finest tube — THOMAS!

THOMAS ELECTRONICS Inc.

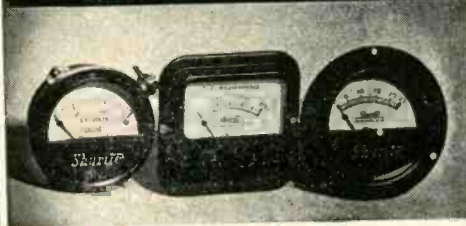
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Passaic, New Jersey

Shurite

TRADE MARK

ELECTRICAL MEASURING INSTRUMENTS



RUGGED • ATTRACTIVE • MODERATELY PRICED

TYPES—ammeters, milliammeters, voltmeters, AC and DC. Resistance meters.

ACCURACY—well within 5%. AC meters are double-vane, repulsion type; DC meters are polarized-vane solenoid type.

CASES—three basic styles, round or rectangular, all requiring 2-5/32" hole. Zero adjuster available on some D.C. models. Also pocket types.

DIALS—all metal—age and moisture resistant. Special calibrations, one to five colors.

USES—plate current and voltage readings; battery charging and emergency lighting units; TV antenna rotator indicators; voltage regulators, etc.

STOCKED—by leading electronics parts distributors. Ask for Bulletin F-53-SH.

SHURITE METERS

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New Haven 8, Conn.

THIS BOOK...

The
**electronics
BUYERS'
GUIDE**

tells you
who makes each of
**fourteen hundred dif-
ferent electronic and
allied products.**

Keep it
and use it
for quick buying
and technical reference
throughout the year.

When buying, or requesting prod-
uct information be sure to mention
ELECTRONICS BUYERS' GUIDE.

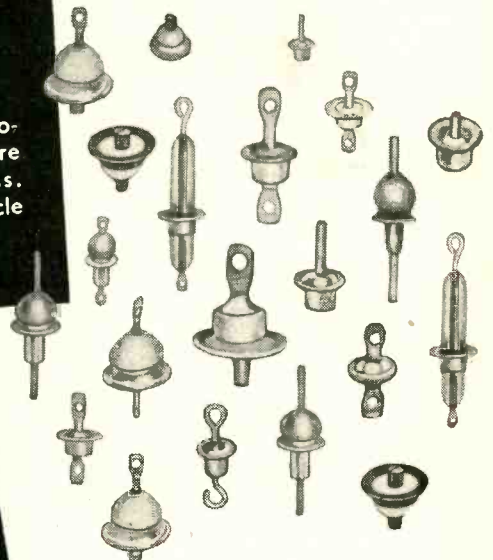
Make **E-I** your HEADQUARTERS FOR ALL THREE!

Almost 100 standard sealed leads and multiple headers with a variety of optional features means E-I can solve your terminal problems quickly and at an economy price. For unusual applications, E-I engineers can design and produce exactly to your specifications. For a fast, practical solution on hermetically sealed terminals for critical electronic requirements, call an E-I engineer!



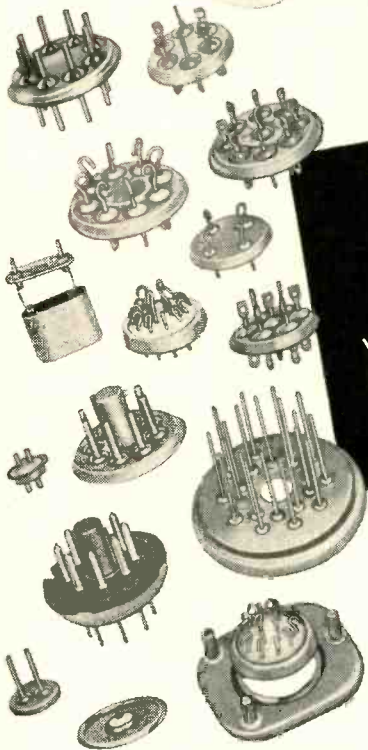
STANDARD SEALED LEADS

Made of hard glass preformed with microscopic air cushioning. Annealed to assure absolute freedom from thermal strains. Guaranteed to withstand U. S. Navy 5 cycle test.



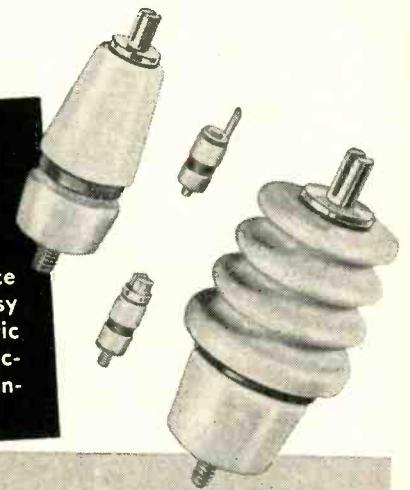
STANDARD MULTIPLE HEADERS

Vacuum tight headers with cushioned glass preforms, completely strain free, tin dipped and silicone treated in any optional features including CRT closures.

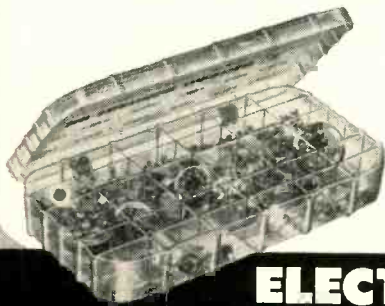


STANDARD GASKET TYPE BUSHINGS

Featuring high dielectric strength, resistance to mechanical and thermal shock and easy installation. Neoprene, hycar and selastic glands available. Meet all government specifications for sealed transformers and condensers.



**Engineers, Designers, Purchasing Agents! Save time and effort
WITH THE E-I SAMPLE KIT!**



New designers kit contains 81 standard terminals and 11 different headers. These mass produced, economy-priced standard parts solve practically all problems requiring hermetic sealing. Transparent case with labeled bins makes it easy to select the correct component for your needs. The E-I SAMPLE KIT is available at the nominal price of \$10.00. Send check with order or request the free E-I illustrated brochure today!

ELECTRICAL INDUSTRIES • INC

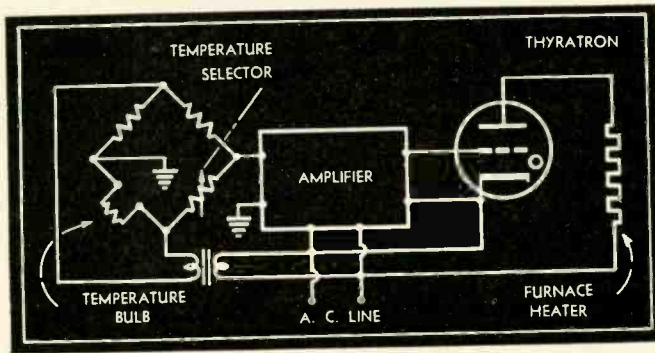
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MANUFACTURERS OF SPECIALIZED ELECTRONIC EQUIPMENT



MACDONALD Proportioning Temperature Controller

Types A and 18B



CONTROLS temperature within 0.1°F

Available RANGES:

Controller Type A to 550 watts, 220V	\$290
Controller Type 18B to 1650 watts, 220V	\$375
Standard Bulb Type 18S to 1000°F	\$ 40
Fast Response Bulb Type 18G —55 to +200°C	\$ 75
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W. S. MACDONALD CO., INC.

CAMBRIDGE 38, MASSACHUSETTS

AMPERITE

THERMOSTATIC METAL TYPE

Delay Relays

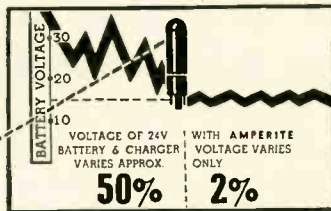


PROVIDE DELAYS RANGING
FROM 1 TO 120 SECONDS

FEATURES: — Compensated for ambient temperature changes from —40° to 110° F . . . Hermetically sealed; not affected by altitude, moisture or other climate changes . . . Explosion-proof . . . Octal radio base . . . Compact, light, rugged, inexpensive . . . Circuits available: SPST Normally Open; SPST Normally Closed.

PROBLEM? Send for "Special Problem Sheet"

Regulators



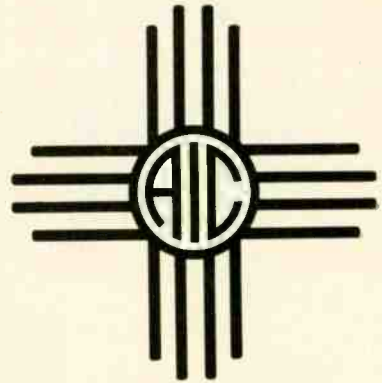
Amperite REGULATORS are the simplest, lightest, cheapest, and most compact method of obtaining current or voltage regulation . . . For currents of .060 to 6 Amps. . . Hermetically sealed; not affected by altitude, ambient temperature, humidity.

Write for 4-page Illustrated Bulletin.

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On your equipment indicates you are using the highest quality nuclear research and industrial instruments . . . instruments designed and built to perform — *reliably*

- Binary and decade scalers
- Plug in scaler strips
- Linear amplifiers
- Preamplifiers
- Scintillation counters
- Counting rate monitors
- Portable survey units
- Coincidence analyzers

Also regulated high voltage supplies, registers with electrical reset, high voltage AN connectors, industrial counting and batching equipment, etc.

Write for bulletins covering items in which you are interested or outline your requirements.

ATOMIC



Instrument Company

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FERRAMICS & CERAMICS

—for every requirement!

FERRAMICS

For smaller transformer or coil cores. Non-metallic. High efficiency. Inorganic and non-deteriorating. Excellent molding qualities and highest uniformity of structure. Reduce size and weight of components drastically and outperform other core materials volume for volume.

STEATITE LOW-LOSS INSULATORS

Efficient at all frequencies. High resistance to mechanical and thermal shock. Available in standard or custom shapes.

HERMETICALLY-SEALED TERMINALS

Tinned shoulders and lugs facilitate installation. Provide permanent seal. Rugged, immune to rough handling. All types.

ELECTRICAL PORCELAIN

For general electrical use. Unglazed white or glazed in white or brown. Inexpensive. Available in any shape or size.

WET PROCESS PORCELAIN

Meet all requirements for heavy or light duty and high or low voltage electrical applications. Highest quality.

For complete information on these products or for prompt estimates, call or write without obligation.



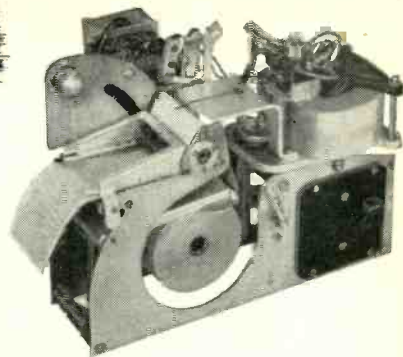
General CERAMICS and STEATITE CORP.
KEASBEY • NEW JERSEY

Makers of STEATITE, TITANATES, ZIRCON PORCELAIN, FERRAMICS, LIGHT DUTY REFRACTORIES, CHEMICAL STONEWARE, IMPERVIOUS GRAPHITE, COAXIAL CABLE

DIRECT WRITING RECORDERS

Records are produced by a heated writing stylus in contact with heat sensitive paper. The paper is pulled over a sharp edge in the paper drive mechanism (standard speed 25 mm/sec., slower available) and the stylus wipes along this edge as it swings, thus producing records in true rectangular coordinates. The writing arm is driven by a D'Arsonval moving coil Galvanometer with an extremely high torque movement (200,000 dyne cms per cm deflection).

This recorder assembly may be obtained in bare chassis form, as illustrated (51-600) with or without built-in timer; or, with the addition of a stylus heating transformer, temperature controls, and control panel (127); or, with the entire assembly, controls and control panel enclosed in a mahogany carrying case (127C). Complete catalog available, see below.



SINGLE CHANNEL

NO INK
RECTANGULAR COORDINATES
PERMANENT RECORDS

INSTRUMENT AMPLIFIERS

A general purpose, A.C. operated driver amplifier for use with model 127 Recorder, comprising three direct coupled push-pull stages. Maximum sensitivity 50 mv. per cm., minimum sensitivity 50 volts per cm., with four intermediate ranges. Balanced input terminals available with impedances of 5 megohms to ground. Complete information in catalog shown below.

Also Available:

High Sensitivity STRAIN GAGE amplifiers



AMPLIFIER-RECORDERS

Model shown at right is a single channel unit comprising above Amplifier 126 and Recorder 127, contained in one mahogany carrying case, and designed for use in the industrial field as a direct writing vacuum tube recording voltmeter capable of reproducing any electrical phenomena from the order of a few millivolts to more than 200 volts. More complete data in catalog shown below.



MULTI-CHANNEL

NO INK
RECTANGULAR COORDINATES
PERMANENT RECORDS

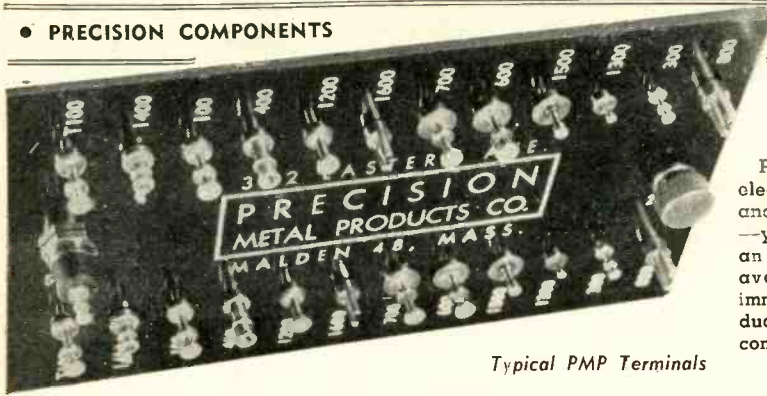
At lower right is a typical "Poly-Viso" multiple channel direct writing Recorder and Amplifier in console. Numerous combinations of this recording equipment and associated amplifiers and accessories are available. The Multi-channel Recorder (Model 65) provides for the simultaneous registration of up to four input phenomena, using the same principles and method as for the Recorder Assembly above. In addition, the "Poly-Viso" Recorder provides a selection of eight paper speeds: 50, 25, 10, 5, 2.5, 1.25, 0.5 and 0.25 mm/sec., and for the use of 4, 2, or 1 channel recording Permapaper. The Amplifier equipment is housed in a rack which has space for four individual driver amplifiers (electrically identical to model 126, above) and one 4-channel preamplifier.

For complete catalog giving tables of constants, sizes and weights, illustrations, general description, and prices, address:



SANBORN COMPANY
Industrial Division
CAMBRIDGE 39, MASS.

Sanborn Recorders and Amplifiers have evolved from those originally designed by Sanborn Company for use in electrocardiographs, and have, by actual practice, proven to have wide applications in the industrial field as well.

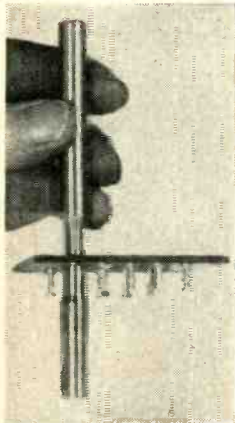


Typical PMP Terminals

PRECISION TERMINALS

PMP designs and fabricates terminals for every conceivable electronic requirement. Their unusual production methods and engineering skill provides products of far better quality —yet at costs below competition. Base material is brass with an approved silver plated finish. Centrifugal tin dipped finish available at no extra cost. Their standard line is available immediately and specially designed terminals can be produced within any reasonable requirement. Before you buy consult PMP.

HAND SWAGGING TOOLS

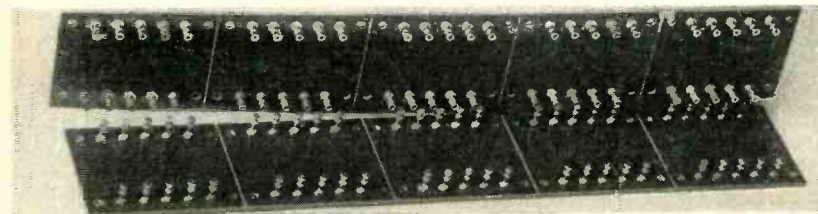


Precision hand swagging tools are correctly designed for fast smooth assembly of terminals into terminal board. They are made of tool steel and tempered for long life. For production, they can be used in a standard kickpress.

PMP also furnishes bench type swaggers

SPECIAL TERMINAL ASSEMBLIES

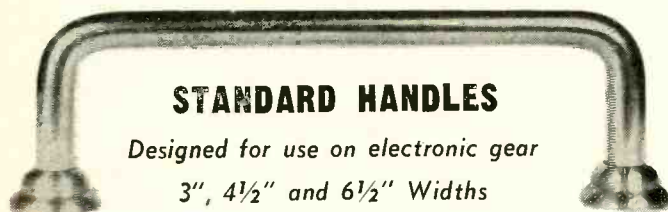
PMP has fabricated thousands of special terminal assemblies and mounting boards for manufacturers of electronic equipment to meet rigid military and industrial requirements. Any type of material or marking can be furnished. Wax and fungicidal treatment in accordance with specifications.



STANDARD UNIVERSAL SECTION BOARDS

Precision universal section boards have met with enthusiastic approval. Engineers, Laboratory Technicians, and Designers find it invaluable as a low cost aid in development and prototype work.

Available in 4 widths, each board has 5 sections, complete in itself, with 10 terminals and 4 mounting holes. One or more sections can be easily separated to suit a particular job. PMP offers a choice of 2 terminal types: No. 100 (Double Turret) or No. 400 (Tubular Turret). Also choice of board material: LE or XXX phenolic. XXX phenolic as board material has found wide acceptance and use in high frequency applications.



STANDARD HANDLES

Designed for use on electronic gear
3", 4½" and 6½" Widths

These handles are especially designed for use on electronic equipment of all types. Handles are furnished in electro-polished stainless steel and hand buffed nickel plated brass. Matching ferrules which add much to rigidity and appearance can be furnished with handles or separately.

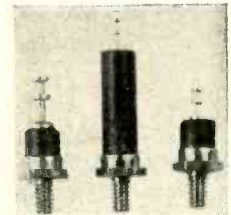
FOR COMPLETE DATA & PRICES on all PMP products send for Catalog No. 20. Requests on company letterhead promptly answered.

TUBULAR TURRET TERMINALS

PMP Tubular Turret terminals permit mounting of components on both sides of a terminal board. Where compactness is necessary these tubulars have found wide use in electronic circuitry.

INSULATED STAND-OFF TERMINALS

PMP insulated stand-off terminals are engineered and manufactured to the highest specifications. The insulating material is Grade XXX phenolic. Bases are nickel plated brass and are furnished in 2 types: Threaded or riveting. Terminals are silver plated.



SECTION SCORING

The illustration above clearly shows the ease with which one or more of the five sections of the PMP Universal Board may be used. The scoring is deep enough to make a clean break but not too deep to remain rigid if all five are used.

PRECISION HARDWARE: Many items in the Electronic Hardware field, such as handles, ferrules, thumb screws, stand-offs, etc., are kept in stock. Many years of experience in all types of metal fabrication, enables PMP to offer manufacturers a specialized service in the designing and production of custom components. Quality and PMP are synonymous, and production "Know-how" has kept PMP prices down with the lowest.

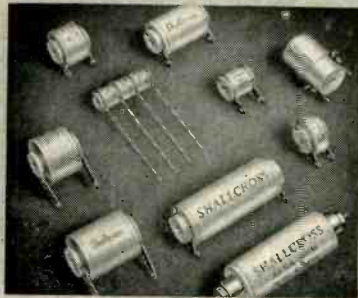
PRECISION

METAL PRODUCTS CO.

OF MALDEN

342 Eastern Ave. Malden, Mass.

SHALLCROSS



AKRA-OHM PRECISION RESISTORS

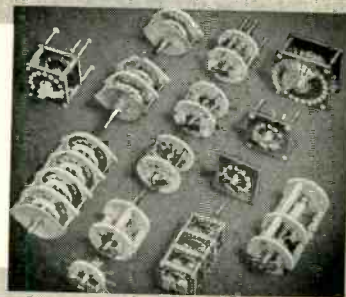
Not only are Shallcross Akra-Ohm wire-wound precision resistors made to extremely close tolerances; equally important, they are physically protected to maintain their accuracy under difficult operating conditions. Types, shapes, sizes,

and mounting styles for JAN and other exacting needs. Guaranteed tolerances from 0.1% to 0.02% and stabilities as low as 0.003% where required. Matched pairs and sets available. Write for Shallcross Resistor Bulletin R3A.

MULTI-POSITION SELECTOR SWITCHES

Shallcross regularly manufactures a wide variety of single or multi-deck selector switches having up to 180 positions and designed for dependable performance up to 250 volts 10 amperes or 2500 volts 1 ampere A.C. Contact resistance ranges

from a low of 0.0005 ohms to a maximum of 0.005 ohms depending upon the size and material of the contacts. Outline your requirements on Specification Sheet No. 6 for recommendation. Write for Data Bulletin L13.



PRECISION ATTENUATORS

Improved materials and production techniques and careful quality control for Shallcross Attenuators have resulted in a line that sets new, higher standards of attenuation performance for practically every audio and communications use. Included are single and dual potentiometers, vari-

able impedance matching networks, V. U. meter multipliers, cueing attenuators, fixed pads, pre-emphasis and de-emphasis networks, attenuation boxes, ladder and balanced ladder controls, and bridged T, straight T, bridged H, and straight H attenuators. Write for Attenuator Bulletin 4.

PRECISE MEASURING INSTRUMENTS

As long-time specialists in standard and special electrical measuring instruments, Shallcross welcomes your inquiry for any desired type. Standard instruments include:

Resistance Standards • Decade Potentiometers • Decade Resistance Boxes • Bridges, Wheatstone • Bridges, Kelvin-Wheatstone • Bridges, Limit • Bridges, Megohm • Capacitor Analyzers • Decibel Meters • Tone Generators • Telephone Test Equipment • Low-Resistance Test Sets • Insulation Test Sets • High-Voltage Test and Measuring Equipment

Write for Shallcross Bulletin 10



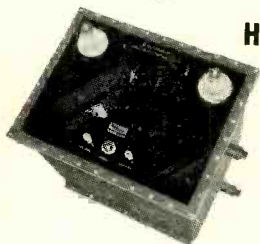
HI-MEG, HI-VOLTAGE RESISTORS

Special resistance elements hermetically sealed in ceramic tubes with ferrule terminals. Three standard sizes offer values to over 100 megohms. Write for Bulletin F.



HIGH-RANGE KILOVOLT METER MULTIPLIERS

Whether for direct high-voltage measurements or for use as standards, Shallcross KV meter multipliers combine close accuracy with safety and dependability. Various types are available for voltages up to 200,000 volts or higher if required. Write for Bulletin F.



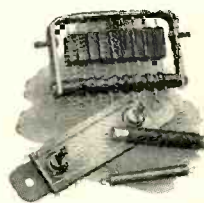
HERMETICALLY-SEALED NETWORKS

Resistance, capacitance, bridge and inductance types available to meet critical electrical specifications and space requirements. Outline details of your requirements for recommendation by Shallcross Engineers.



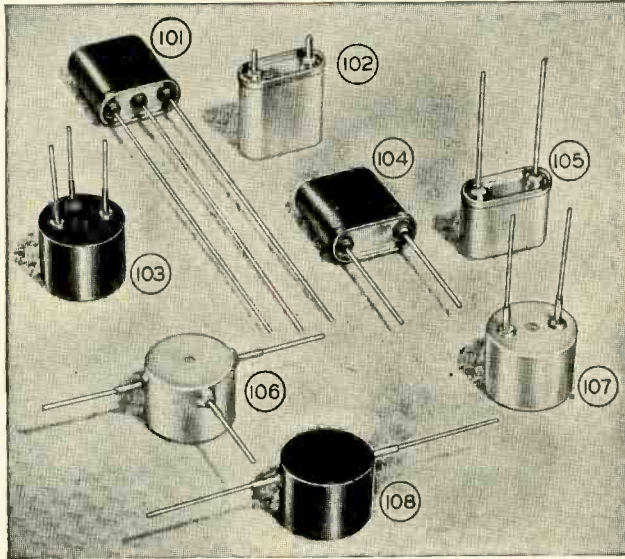
CUSTOM-BUILT SPECIALTIES AND ENGINEERING SERVICE

Sealed networks, high voltage measuring equipment, special test sets, thermally controlled networks, precise decades and networks for computer devices, high resistance standards, and critical coil assemblies are designed by Shallcross Engineers and built to meet your requirements. Forward your specifications for further information.



SHALLCROSS MANUFACTURING CO., Dept. EG-60 Collingdale, Pa.

STEVENS HERMETICALLY SEALED THERMOSTATS

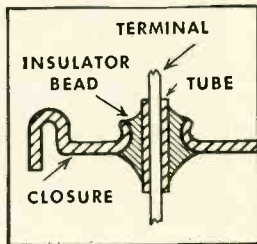


Bright-plated or dull-black finish. Terminals to customer specification.

- fast response
- close control
- operation from -60° to 600°F
- dust, moisture and explosion-proof

Specially engineered for precision control of radio and electronic devices, instruments, cameras and other equipment subjected to dust, moisture or corrosive atmospheres, Stevens hermetically sealed thermostats are enclosed in corrosion-resistant metal cans.

Carefully precalibrated in pots simulating your actual service conditions, Stevens* hermetically sealed thermostats have a tight, permanent seal that prevents deterioration or sulphiding of contacts. They can also be sealed in helium or other inert gas atmosphere. Terminals are sweat-soldered into inert alloy tubes interfused with inorganic glass insulator bead.



Stevens hermetically sealed thermostats—featuring an electrically independent bi-metal element that eliminates artificial cycling or life-shortening “jitters”—are available in disc types for controlling higher-wattage circuits, or in strip types for controlling low-wattage circuits or for use in conjunction with disc thermostats.

To insure the satisfactory performance of your product, specify Stevens hermetically sealed thermostats—they perform better . . . last longer.

A-2914

*Stevens also makes a complete line of semi-sealed and standard bi-metal disc and strip thermostats. Write for data.

STEVENS manufacturing company, inc.
MANSFIELD, OHIO

1,000,000

1/4 watt resistors for only \$15*

CONDUCTING, RESISTANCE,
MAGNETIC PAINTS
AND HOT MELTS

A REMARKABLE GROUP of relatively new engineering materials designed to SAVE manufacturing TIME and drastically REDUCE COST in EVERY BRANCH of the electrical industry.

USE of these materials in complete PRINTED CIRCUITS is increasing. SPECIAL APPLICATIONS involving single areas and lines of conducting, resistance, and magnetic paints are effecting tremendous savings in time and money on standard equipment. Our S21 KIT described below will enable you to locate those applications in your equipment. Applications include shielding, corona and static elimination, inductance adjustment, heating, wire and resistor replacement, and many others. (See our “Industrial Electronic Coatings” bulletin below.)

APPLICATION may be by any method used with conventional coatings. Square resistances from hundredths of an ohm to thousands of megohms can be produced. Flexibility, drying rate, and other properties may be specified.

For RESEARCH
DEVELOPMENT
EXPERIMENTATION

Order our S21 KIT of five air-drying conducting and resistance paints plus solvent and lacquer. Fifteen day inspection period. \$7.27, postpaid in U.S.A., or from your local distributor.

For further information
write for your copies of:

Here is the Story Free
Industrial Electronic Coatings Free
Printed Circuit Design Outline Free
Magnetmelt Properties Free
Design and Repair of Printed Circuits
—Postpaid 50c
Printed Circuit Techniques (National
Bureau of Standards) Postpaid . . . 32c

* \$15.00 is the total cost of the resistance paint required to replace conventional resistors in this use. This is a case where a painted-on resistor is saving a manufacturer many hundreds of dollars and reducing size and weight in his equipment.

MICRO-CIRCUITS COMPANY

Coatings Dept.

NEW BUFFALO, MICHIGAN

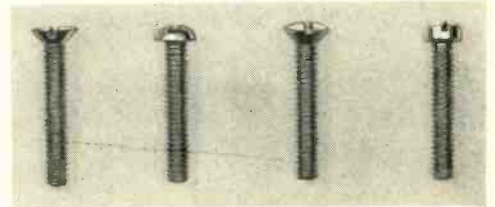
FASTENINGS for every need in electronic gear



When you make Blake & Johnson your headquarters for small fastening devices, you benefit by more than a hundred years of manufacturing know-how. Since 1849, Blake & Johnson has been recognized as a dependable, one-stop source for all types of fasteners—in steel, stainless steel, copper, brass, bronze, everdur, nickel, nickel silver, monel, and aluminum.

STANDARD MACHINE SCREWS

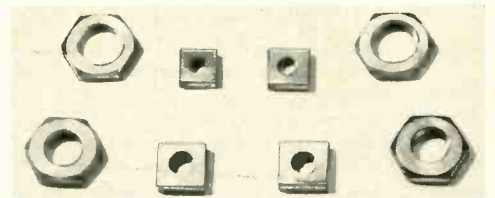
Blake & Johnson Standard Machine Screws are available in flat, round, oval, fillister, hexagon, binding, pan, truss and unslotted (special) heads. Threads per inch range from 16-64; lengths, 1/8"-3". In steel or brass.



Typical B.&J. Machine Screws

MACHINE SCREW NUTS

Manufactured in steel or brass with coarse (16-56) and fine (24-64) threads. Width across flats—3/16" to 5/8". Hexagon or square. Nuts may be plated in nickel, brass, copper, cadmium, electro-galvanizing or zinc plate, bluing and parkerizing. Special finishes also available.



Typical B.&J. Machine Screw Nuts

TWIN-FAST WOOD SCREWS

A twin thread screw for faster production—stronger fastening. Twin-Fast screws present 4 major improvements:
1. Relieved Shank Diameter—eliminates danger of setting up stresses that causes fractures or ruptures, assures perfect alignment. 2. Twin Threads—provide greater thread pitch. Cuts fastening time in half.



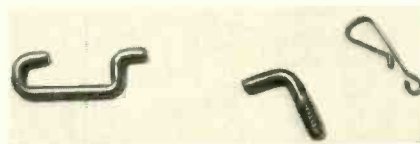
3. Cylindrical Construction—provides greater strength—more thread area. Holding power far exceeds that of ordinary tapered screws.
4. Single, Centered Point—specially designed twin threads terminate in a single, centered point where the two cutting blades meet. Screw bites into wood at first pressure and drives straight.

TAPPING SCREWS



Available in three types shown above with flat, round, oval, truss, pan and hexagon heads. 1/8" to 2" in length with either plain or plated finish. Threads per inch range from: Type A, 32-9; Type B, 32-12; Type C, 24 to 40. Thread angle 60° included.

SPECIAL WIRE FORMS



Typical of our manufacturing versatility is a line of special forms, for diverse industries, made from ferrous and non-ferrous wire, in such shapes as bent wires, threaded rods, eye bolts, "U" bolts, dowels, winder keys, and many others.

SPECIAL HEAD PRODUCTS



Our long manufacturing experience has made the company name and the term "Cold Heading Specialists" synonymous. In addition to our regular line of standard screws and bolts, production items of irregularly shaped heads are made special-to-order.

1849-1950

PHILLIPS HEAD Blake & Johnson standard machine screws, Twin-Fast wood screws, and tapping screws are available with Phillips head. They are manufactured in the various shape heads mentioned above and are either plain or plated finish. Metals include brass and steel.

FASTENERS TO SPECIFICATIONS

Our engineers are always glad to work with yours to help select or develop the fastening that provides quickest application, greatest holding power and soundest economy for your particular needs.



Send For Catalog

The Blake & Johnson fastenings catalog is complete in every detail—includes extensive technical information and prices. Send request on your company letterhead. Address Dept. G.

THE BLAKE & JOHNSON COMPANY, WATERVILLE 48, CONN.



HEINEMANN ELECTRIC COMPANY

150 PLUM STREET



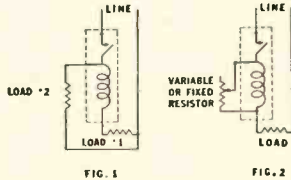
TRENTON, NEW JERSEY

Agents in Most Principal Cities

SHORT CIRCUIT and OVERLOAD PROTECTION

Fully Electro-Magnetic Circuit Breakers—Instantaneous and Time Delay Types

Typical Wiring Diagrams

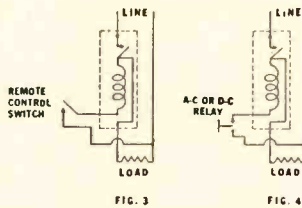


CALIBRATING TAP

Figure 1 illustrates two separate loads wired to a single pole calibrating tap Circuit Breaker. Both load #1 and load #2 are disconnected when an overload occurs in load #1.

Figure 2 illustrates the use of a variable or fixed resistor in parallel with the trip coil to gain an adjustable variation in the rating or different fixed ratings giving a wide range of calibration of the tripping point.

Innumerable combinations can be obtained by use of 2 and 3 pole Circuit Breakers.

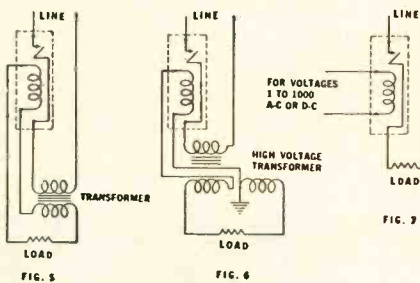


SHUNT TRIP

Figure 3 illustrates a shunt trip Circuit Breaker that can be tripped at some remote station.

Figure 4 illustrates a shunt trip Circuit Breaker that can be operated by an AC or DC relay operating a set of contacts upon which the line voltage is impressed.

These Circuit Breakers must be reclosed manually.



RELAY TRIP

Figure 5 illustrates a relay trip Circuit Breaker protecting a transformer by limiting the current in the secondary. When the Circuit Breaker is tripped the primary of the transformer is open circuited.

Figure 6 illustrates a relay trip Circuit Breaker protecting a high voltage transformer by having the relay coil inserted between the two secondary windings at the grounded terminal. When the Circuit Breaker is tripped the primary of the transformer is open circuited.

Figure 7 illustrates a relay trip Circuit Breaker operated by an independent source of current, either AC or DC, and for voltages of 1 to 1000.

Circuit Breakers

in ratings from 50 milliamperes to 50 amperes operating on circuits to 460 volts AC or 250 volts DC.

A complete line of circuit breakers furnished in both Instantaneous Trip and Time Delay types. The former trips instantly on short circuits and sudden overloads, opening the circuit even before an ammeter could indicate the amount of current.

The Time Delay Type also opens instantly on short circuits but eliminates unnecessary opening of the circuit on harmless overloads of short duration—such as that caused by inrush current when starting motor.

Time delay breakers are available in any one of 3 inverse time delays that match the characteristics of almost any circuit. The magnetic trip unit is hermetically sealed to prevent tampering. All breakers are calibrated, set and adjusted at the factory.

These breakers are available in single, two and three pole designs as illustrated; bakelite enclosed or in steel cabinets or explosion proof housings.

Send for NEW Catalog with complete engineering data.



1 Pole Breaker

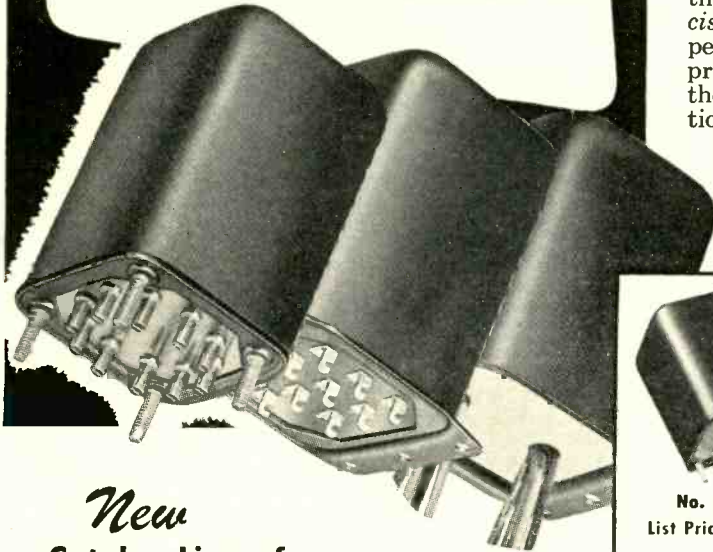


2 Pole Breaker



3 Pole Breaker

CHICAGO... The Engineer's Transformer



New Catalog Line of HERMETICALLY SEALED TRANSFORMERS

Meet All JAN-T-27 Requirements



A complete range of power, bias, and filament transformers, and filter reactors, that meet all Grade I "JAN" tests for Class A operation. Famous CHICAGO "Sealed in Steel" constructions with bushing gasket terminal seals. If you are in military research work, be sure to write for complete details on this advanced line.

Famous "Sealed in Steel" New Equipment Line

Chicago Transformer's New Equipment Line offers transformer engineering *ahead* of the trends in circuit design. It's the Transformer Line preferred by experts in the P.A., ham, communication and experimental fields, and by broadcast stations and manufacturers.

Check these features—*drawn steel cases* to provide compact, streamlined mounting; *conservative ratings* that meet all RMA and FCC recommendations; *precision characteristics* for stable, uniformly excellent performance—these, and many others. Check the prices—and you'll learn how little more these advanced units cost over conventional transformers.

Typical of the New Equipment Line are the outstanding audio transformers listed below. Get full details on the complete line—write for descriptive catalog today.



No. BO-6
List Price \$23.00

Response within .2db, 30 to 20,000 cycles New Full Frequency Range Output Transformer

No. BO-6. For use in high fidelity amplifiers. Couples push-pull 6L6's (7500 ohms, C-T) to 6/8 or 16/20-ohm voice coil. Center-tapped tertiary winding provides 15% inverse feedback to reduce harmonic distortion to a minimum. In drawn steel case, 4 $\frac{9}{16}$ " x 3 $\frac{7}{8}$ " x 3 $\frac{1}{16}$ ", with mounting studs and pin-type terminals.

There's a CHICAGO OUTPUT TRANSFORMER For Every Full Frequency Use

Cat. No.	Application	Impedance	Max. Power	List
BO-1	Single Plate to Line	Pri.—15,000 ohms at 0 to 10 ma d-c *Sec.—600/150 ohms CT	+20 dbm	\$13.00
BO-2	P.P. Plates to Line	*Pri.—20,000 ohms CT *Sec.—600/150 ohms CT	+30 dbm	19.00
BO-3	P.P. Plates to Line	Pri.—5,000 ohms CT *Sec.—600/150 ohms CT	+40 dbm	17.00
†BO-4	P.P. Plates to Line	Pri.—7,500 ohms CT *Sec.—600/150 ohms CT	+43 dbm	18.00
BO-5	P.P. Plates to Line	Pri.—10,000 ohms CT *Sec.—600/150 ohms CT; 16/8/4 ohms	+37 dbm	24.00

†Tertiary winding provides 15% inverse feedback. *Split and balanced windings.

Television Transformers to fit today's leading TV circuits

Because Chicago Transformer is the largest single supplier of transformers to the Television industry, you gain the advantages of "Original Equipment" components when you buy Chicago TV Transformers. Available now, the three units described here are part of a complete new line, soon to be announced.

Vertical Blocking Oscillator Transformer No. TBO-1. 60-cycle unit for creating the vertical sweep "saw-tooth" voltages required in conventional circuits.

Pri. Inductance: 1.15 hy \pm 20% at 3 v., 1000 cycles
Pri. Leakage Inductance: 8 mh \pm 25%, -15%
Ratio, Primary to Secondary: 1 to 4.2

Exact equivalent to R. C. A. Part No. 208T2.

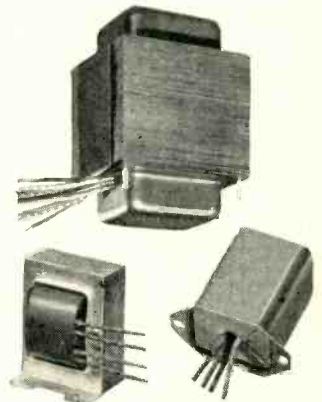
TV Power Transformer No. TP-365. Designed to supply 405 volts d-c with two 5U4G's to an 80 mfd condenser input. Copper shorting band around core reduces external magnetic field; cuts image distortion to a minimum.

Pri.: 115 v., 60 cycles
H.V. Sec.: 362-0-362 v., a-c, .295 amps d-c
Fil. No. 1: 12.6 v., 5 amps, C-T
Fil. No. 2: 5 v., 2 amps
Fil. No. 3: 5 v., 6 amps

Exact equivalent to R. C. A. Part No. 201T6.

Vertical Scanning Output Transformer No. TSO-1. Couples vertical output tubes to picture tube deflection yoke.

Pri. Impedance: 19,000 ohms at 30 v., 60 cycles, 13 ma d-c
Ratio, Primary to Secondary: 10 to 1
Exact equivalent to R. C. A. Part No. 204T2.



Write for Descriptive Literature



TRADE MARK REG.

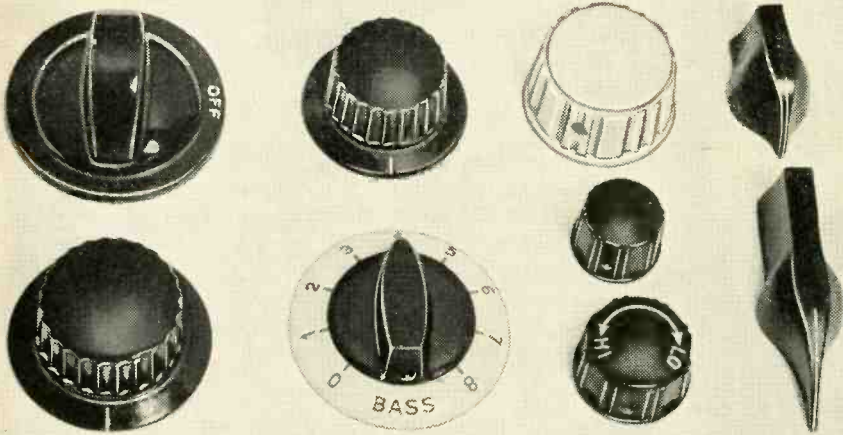
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DIVISION OF ESSEX WIRE CORPORATION

3501 ADDISON STREET • CHICAGO 18, ILLINOIS

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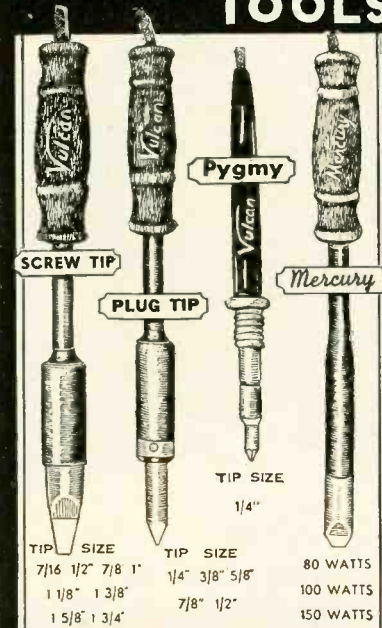
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Make BETTER Soldering EASIER

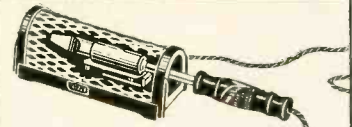
VULCAN

ELECTRIC SOLDERING TOOLS



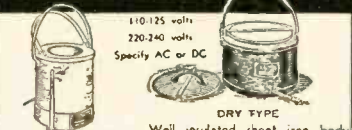
TIP SIZE	TIP SIZE	80 WATTS
7/16 1/2"	7/8 1"	100 WATTS
1 1/8" 1 3/8"	1/4" 3/8" 5/8"	150 WATTS
1 5/8" 1 3/4"	7/8" 1/2"	

SOLDERING TOOL HOLDER



Shields the hot soldering tool from accidental contact with hand or body, yet maintains it at the correct temperature for the work of hand.
 The tool can be grasped only by the handle.

ELECTRIC GLUE POTS



110-125 volts
 220-240 volts
 Specify AC or DC
DRY TYPE
 Well insulated sheet iron body with removable porcelain-enamelled metal glue container. One quart, two quarts, four quarts.

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Thermostatically controlled Electric Immersion Heater ensures a constant supply of hot water from small capacity tanks. Easily, quickly and economically installed in any present equipment without disturbing existing plumbing. Plugs in any convenient outlet.

VULCAN ELECTRIC COMPANY

DANVERS MASS.



Sound Compact Controls

RESISTORS

Millions of these ultra-compact controls have been sold since their introduction in 1947. They are the most reliable, most accurate, and most rugged controls available today. They are available in a wide variety of values and are suitable for use in a wide range of applications.

RESISTANCE

Series 50 units are available in any resistance value from 1 ohm minimum to 1000 ohm maximum. Only linear resistors are possible.

POWER RATING

Rated at 1 watt maximum into standard load. The standard tolerance is $\pm 10\%$.

RESISTANCE TOLERANCE

The standard tolerance tolerance is $\pm 10\%$.

RESISTANCE ELEMENT

Consists of wire firmly wound on a light propagation core, firmly held in a light in the fibre case in such manner that work is possible.

ACCOUNTING

Single-hole mounting is provided by threaded fibre bushings. It is done by using the mounting bushings. It is done by using the mounting bushings. It is done by using the mounting bushings.

SHAFTS

Two types of shafts are available. One provides for accurate positioning. The other is of a standard type.

Series 50 and 50-S

Small Wire-Wound Resistors and Rheostats

These units are available in a wide variety of values and are suitable for use in a wide range of applications.

SERIES 37 and 37-S

Composition-Element Potentiometers and Rheostats

Space-saving controls of the composition element or carbon type. Series 37 without switch. Series 37-S with switch. Mechanically interchangeable with small wire-wound controls Series 43 and 43-S (see Bulletin 116).

These controls incorporate the Clarostat stabilized element which has already set new standards of performance and life during composition or carbon controls. Marked stability for varied and for maximum resistance values over long service. Exceptionally immune to humidity, heat, cold, wear and age.

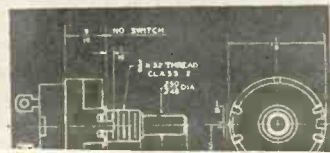
CONSTRUCTION

Resistance element is a special resistive coating permanently bonded on bakelite disc. Ductile conductor of special alloy. Rounded corners for smooth and freely in glossy surface of resistance element.

Positive contact throughout. Minimum "noise". Smooth rotation.

RESISTANCE RANGE

Linear and tapered resistance from 1000 ohms to 5 megohms.



SERIES PW-25 and PW-50

POWER RHEOSTAT

Full power rheostat with 1000 watt capacity. Without the need for special wiring. Three 25 watt, 100 ohm, and 50 watt, 100 ohm power rheostats. The restricted winding is in power rheostat. The restricted winding is in power rheostat. The restricted winding is in power rheostat.

CLAROSTAT

Wire-Wound High-Wattage Resistor

SERIES FL

These are wire-wound high wattage resistors for use wherever a resistor of the permanently mounted type of the plug-in type is desired. They are available in a wide variety of values and are suitable for use in a wide range of applications.

CLAROSTAT

Control Hardware

SHAFTS * NUTS * WASHERS * INSULATOR COUPLER

Other shaft hardware available. The standard shaft hardware is available in a wide variety of values and are suitable for use in a wide range of applications.

Yours for the asking

Clarostat Engineering Bulletins provide concise, specific, handiest data on resistors, controls and resistance devices. Any or all are yours for the asking:

Subject	Bulletin No.
Ballasts or Line Regulators	108
Beam Benders (TV Tube)	147
Composition-Element Controls	112-117
Constant-Impedance Output Attenuator	111
Flexible Resistors (Glasohms and Flexohms)	105
General Information	101
General Utility or Accessory Resistors	125
Greenohm Jr. (Midget Power Resistors)	110
Hardware for Controls	120
Humdingers (Compact Controls)	103
L-pads, T-pads, Faders	102
Metal-Clad Molded Resistors	109
Midget Composition-Element (15/16" Controls)	117
Multiple-Unit Tandem Controls	142
Power Resistors (Fixed and Adjustable)	110-113-146
Power Resistor Decade Box	114
Power Rheostats	115
Standees (Above-Chassis-Mounted Power Resistors)	146
Plug-In Resistors (Tube Type)	107
Wire-Wound Midget Controls	116
Wire-Wound Standard Controls	118
Synchronous Motors (for clocks, etc.)	144

SUBMIT YOUR RESISTOR OR CONTROL REQUIREMENTS FOR ENGINEERING AID AND QUOTATIONS.



CLAROSTAT

Controls and Resistors

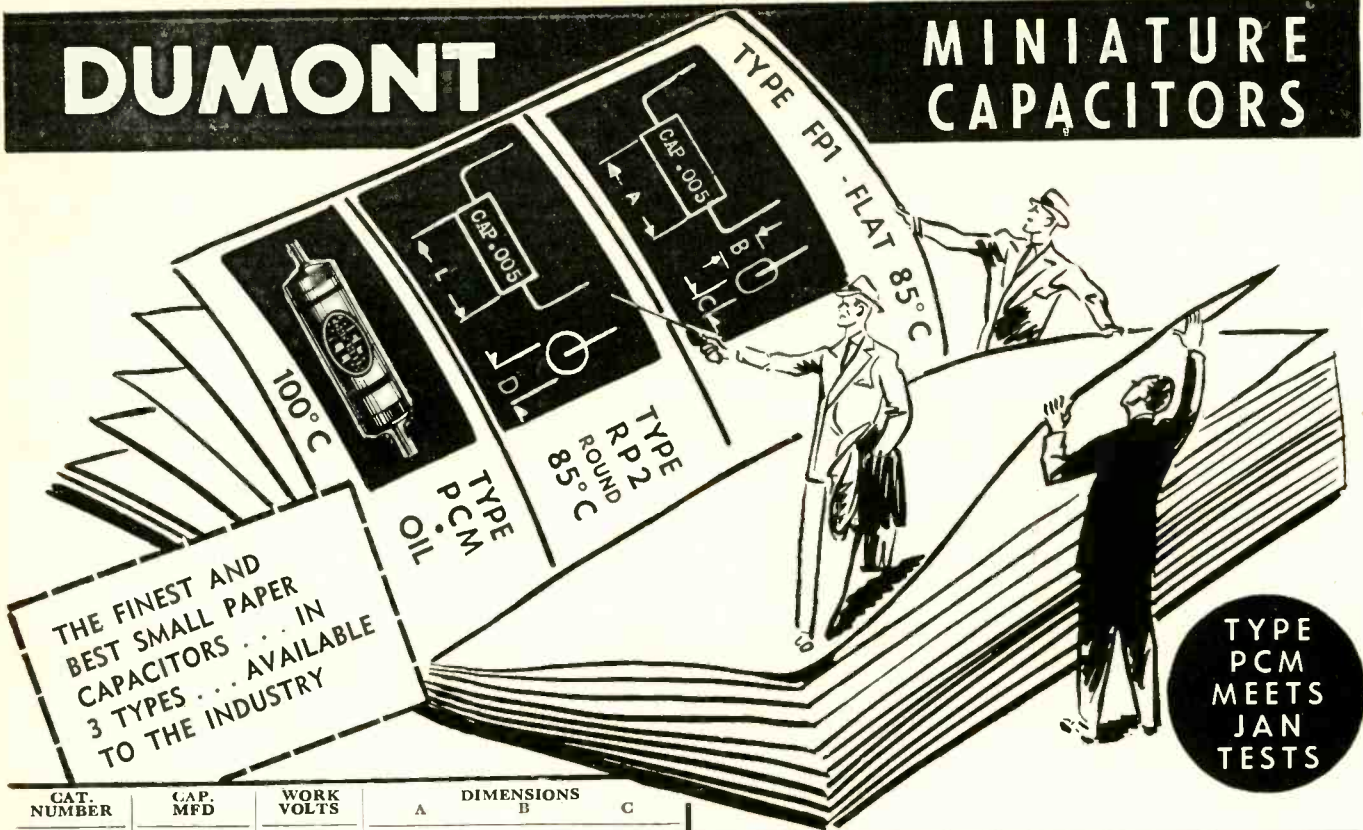
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THE FINEST AND
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CAPACITORS... IN
3 TYPES... AVAILABLE
TO THE INDUSTRY

TYPE
PCM
MEETS
JAN
TESTS

CAT. NUMBER	CAP. MFD	WORK VOLTS	DIMENSIONS		
			A	B	C
FP1-1	.00005	600	1/2	1/4	1/16
FP1-2	.0001	600	"	"	"
FP1-3	.00025	600	"	"	"
FP1-4	.0005	600	"	"	"
FP1-5	.001	200	"	"	"
FP1-6	.001	600	1/2	3/8	1/16
FP1-7	.002	200	1/2	1/4	1/16
FP1-8	.002	600	1/2	1/4	1/8
FP1-9	.005	200	"	"	"
FP1-10	.005	400	5/8	3/8	1/8
FP1-11	.005	600	"	"	"
FP1-12	.01	200	1/2	3/8	1/8
FP1-13	.01	400	5/8	3/8	1/8
FP1-14	.01	600	"	"	"
FP1-15	.02	200	"	"	"
FP1-16	.02	400	5/8	3/8	3/16
FP1-17	.02	600	"	"	"
FP1-18	.03	200	5/8	5/8	1/8
FP1-19	.03	400	3/4	3/8	1/4
FP1-20	.03	600	"	"	"
FP1-21	.05	200	5/8	3/8	3/16
FP1-22	.05	200	3/4	3/8	1/8
FP1-23	.05	400	3/4	1/2	3/16
FP1-24	.05	600	"	"	"
FP1-25	.1	200	3/4	3/8	1/8
FP1-26	.1	400	3/4	5/8	"
FP1-27	.1	600	3/4	5/8	3/8
FP1-28	.25	200	1	5/8	5/16
FP1-29	.25	400	1 1/4	5/8	3/8
FP1-30	.25	600	"	"	"
FP1-31	.5	200	1 1/2	1/2	1/4
FP1-32	.5	200	1 1/2	5/8	3/8
FP1-33	.5	400	1 1/2	1	5/8
FP1-34	.5	600	1 1/2	1	5/8
FP1-35	1.0	50	1 1/2	5/8	3/8
FP1-36	1.0	100	1 1/2	1	5/8
FP1-37	1.0	200	1 1/2	1	"
FP1-38	1.0	400	1 1/2	1	1
FP1-39	2.0	50	1 1/2	7/8	3/8
FP1-40	2.0	100	1 5/8	1	5/8
FP1-41	4.0	50	1 5/8	1 1/4	7/8
FP1-42	4.0	100	1 5/8	1 1/4	"
FP1-43	4.0	200	1 5/8	1 1/2	1
FP1-44	4.0	400	1 5/8	1 1/2	1
FP1-45	6.0	50	1 5/8	1 1/2	1

CAT. NUMBER	CAP. MFD	WORK VOLTS	DIMENSIONS	
			LENGTH	DIAMETER
RP2-1	.00005	600	1/2	3/16
RP2-2	.0001	600	"	"
RP2-3	.00025	600	"	"
RP2-4	.0005	600	"	"
RP2-5	.001	200	"	"
RP2-6	.001	600	1/2	1/4
RP2-7	.002	200	1/2	3/16
RP2-8	.002	600	5/8	1/4
RP2-9	.003	200	1/2	3/16
RP2-10	.003	600	1/2	1/4
RP2-11	.005	200	5/8	3/16
RP2-12	.005	400	5/8	1/4
RP2-13	.005	600	"	"
RP2-14	.01	200	"	"
RP2-15	.01	400	3/4	1/4
RP2-16	.01	600	"	"
RP2-17	.02	200	"	"
RP2-18	.02	400	3/8	3/8
RP2-19	.02	600	"	"
RP2-20	.03	200	"	"
RP2-21	.03	400	"	"
RP2-22	.05	200	"	"
RP2-23	.05	400	3/4	1/2
RP2-24	.075	200	3/4	3/16
RP2-25	.1	200	3/4	3/8
RP2-26	.25	200	1	3/8
RP2-27	.5	200	1 1/2	1/2
RP2-28	1.0	100	1 1/2	3/4
RP2-29	2.0	100	1 1/2	1

WRITE FOR
SAMPLES AND
INFORMATION
NOW

CAT. NUMBER PCM PBM	CAP. MFD	100 V D X L	CAT. NUMBER PCM PBM	200 V D X L	CAT. NUMBER PCM PBM	400 V D X L
1	.0001	3/16 — 1/2	21A	3/16 — 1/2	41A	1/4 — 7/8
2	.00025	"	22	"	42	"
3	.0005	"	23	"	43	"
4	.001	"	24	3/16 — 7/8	44	"
5	.002	"	25	3/16 — 7/8	45	"
6	.003	"	26	"	46	"
7	.004	"	27	"	47	5/16 — 7/8
8	.005	"	28	"	48	"
9	.01	3/16 — 7/8	29	1/4 — 7/8	49	"
10	.015	"	30	5/16 — 7/8	50	"
11	.02	1/4 — 7/8	31	"	51	3/8 — 7/8
12	.025	"	32	"	52	7/16 — 7/8
13	.03	5/16 — 7/8	33	"	53	1/2 — 7/8
14	.04	"	34	1/2 — 7/8	54	9/16 — 1 1/8
15	.05	3/8 — 7/8	35	1/2 — 1 1/8	55	5/8 — 1 1/8
16	.1	7/16 — 7/8	36	5/8 — 1 1/2	56	"
17	.15	1/2 — 1 1/8	37	"	57	5/8 — 1 1/2
18	.2	9/16 — 1 1/8	38	"	58	"
19	.25	"	39	"	59	11/16 — 2
20	.5	5/8 — 1 5/8	40	5/8 — 2	60	3/4 — 2
21	1.0	3/4 — 1 5/8	41	3/4 — 2	61	3/4 — 3

DUMONT ELECTRIC CORP.

308 DYCKMAN ST.
NEW YORK, N. Y.

WIRE · CABLES · TUBING

OPERATING TEMPERATURES FROM -60°C TO 200°C

SIZES FROM 32 TO 4/0

Surco products are manufactured in our modern well equipped plant where extra emphasis on quality control insures the finest quality products.

Our extensive, well staffed, electrical and chemical laboratories keep a constant check on production and constantly strive for new and improved designs in our wire and cable products.

SOME OF OUR SPECIALTIES

"SURCO" A-10 FOR (105°C) HOOK-UP WIRE

A-10 is an unusually high grade vinyl insulating compound developed in our own laboratories for a better hook-up wire. It has excellent resistance to deformation, soldering, high temperature, low temperature and aging; high electrical properties; Underwriters Lab. approved for continuous operation to 105°C without fibrous covering.

MINIATURE WIRE & CABLE

"Surco" miniature wire and cables are made in conductor sizes down to No. 32 AWG in stranded and solid. Close control in manufacturing permits small finished diameters on both single and multi conductor cable. Available in standard colors with and without nylon jacket or shielding in the various vinyl or polyethylene compounds.

JAN-C-76 HOOK-UP WIRE

Approval includes all types (WL—SRIR—SRHV—SRRF) in all sizes. WL available with nylon jacket or glass braid. SRIR—SRHV—SRRF available with primary insulation only or with the addition of a glass braided covering. All standard colors including "Spiralon" spiral striping.

SURFLON (200°C) HOOK-UP WIRE

"Surflon" (tetrafluoroethylene) insulation is extremely stable and capable of operation at 200°C for long periods with no appreciable decomposition. Non-inflammable. High resistance to chemicals; has no known solvent. Volume and surface resistivity very high. Surflon's electrical losses are exceptionally low, which adapts it for use on high frequency applications over a wide range of temperatures. Now available in hook-up wire sizes.

MULTI CONDUCTOR CABLES

"Surprenant" manufactures an extensive line of multi conductor cables for a variety of applications with conductor sizes from No. 32 AWG stranded and larger, with or without nylon jacket or shielding.

Our "Spiralon" color coding system permits easy identification even when hundreds of conductors are involved.

Our designs and close tolerances permit unusually small overall diameters.

"SURCO" TUBING

"Surco" vinyl tubing is available in special formulations for particular applications, such as, low temperature (-65°C), high temperature (105°C), U.L. approved, high dielectric strength, extreme flexibility and colors, as well as, standard compounds which are carried in stock in regular sizes. Polyethylene and nylon tubing are also available and are carried in stock in natural color, in limited sizes.

COAXIAL CABLES

"Surco" coaxial cables include a wide variety of types, such as, low capacity, extra flexibility, small diameter, microphone and 2 conductor. Many approved and conformed to JAN-C-17A. Many special designs. If you have a coaxial cable problem consult us.

"SPIRALON"

Surco "Spiralon" color coding is available on all vinyl and polyethylene insulated wire, with or without nylon jackets. One, two or three color stripes are available in the standard Nema colors.

Solid color insulation is available in the 10 Nema standard colors.

NEW, IMPROVED AIRCRAFT WIRE

Nylon jacket over polyvinyl chloride for greater resistance to abrasion, fungus, moisture, hydraulic and other oils. Higher operating temperatures and better electrical properties approved under ANJC-48A. "Surprenant" manufactures aircraft wire to more rigid requirements, for newest developments contact us.

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Whether your application calls specially for high dielectric properties, or mechanical strength, or a combination, you can find the right kind and quality of insulating material in the MICO line:

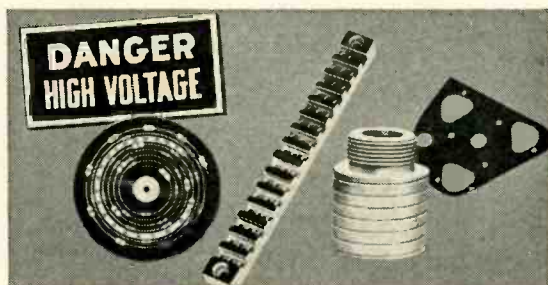
Fabricated Mica: has no substitute in electronics field for high dielectric strength, good resistivity, uniform dielectric constant, capacitance stability and low dielectric loss. Fabricated to close dimensional tolerances for TV iconoscope screens, condenser films, radio and radar trimmer, transmitting and receiving condensers, tube supports, etc.

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LAMICOID®: a line of thermosetting laminated plastic products combining excellent electrical and mechanical properties. *Electrical grades* afford varying combinations of properties—mechanical strength, dielectric strength, low power factor and high moisture resistance. *Mechanical grades* made especially to provide high strength and light weight. *Decorative grades* specially suited for dials, terminal boards and similar applications. Graphic, printed matter permanently bonded under surface; Engraving, sandwich type sheet into which markings are cut; Translucent, for rear illumination.

EMPIRE® varnished fabrics and papers: a variety of varnished fabrics, papers and fiberglas made in sheet, roll or tape form. Manufactured to comply with NEMA standards, all Empire products except Varnished Fiberglas are Class A insulation; the latter is Class B insulation.

MISCELLANEOUS INSULATIONS: vulcanized fiber and fish-paper, Fiberglas and cotton tapes, varnished and lacquered tubing, extruded tubing, Fiberglas and Cotton sleeving.



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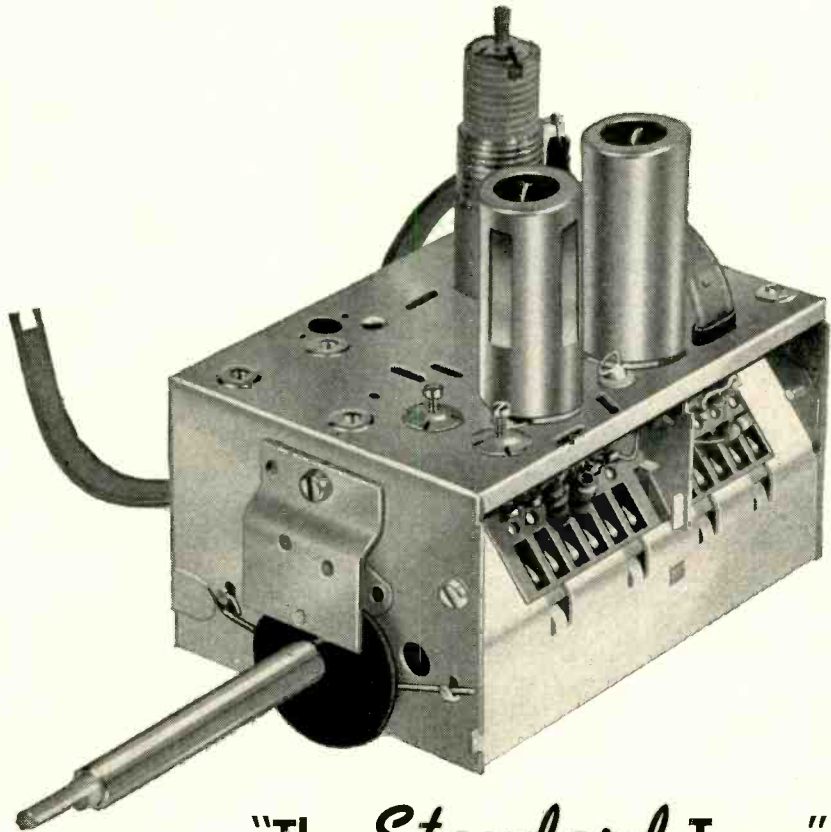
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A front end tuning assembly for TV re-
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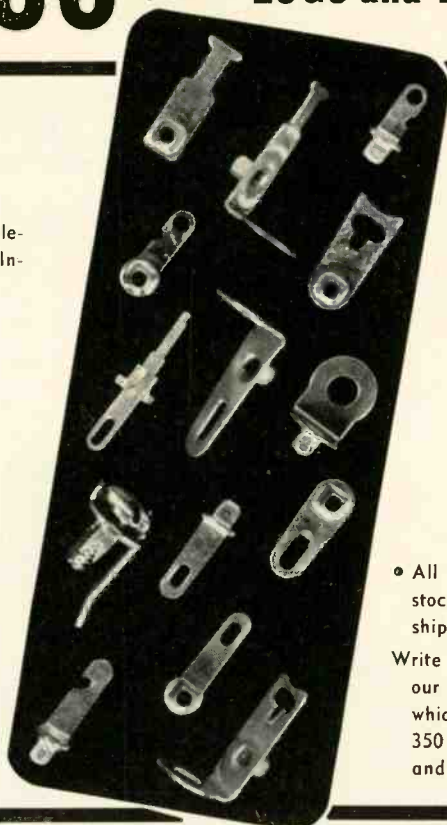
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The new higher voltages, frequencies and tremendous volume of television call for engineered connectors that are not simply the holdovers from the battery radio set era. They call for **QUALITY** connectors at **LOW COSTS** and they outlaw the marginal designs that cannot rapidly be brought up to **VOLUME** as needed. Engineers at Alden have designed and are continuing to design connections that meet these high quality, low-cost, volume demands

of the TV field. Now there is also new emphasis on making electronic equipment easy to operate and maintain — using plug-in, unit construction — not only for easy servicing — but for the efficient production of sub-assemblies. Here, plug-in devices and specially engineered connectors and cables are needed. This directory illustrates some of these products, and is our invitation to you to work with us in this new field of **ENGINEERED CONNECTIONS**, whether for cables or plug-in unit construction.

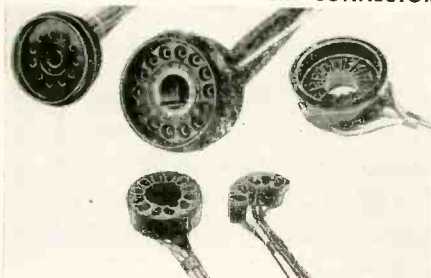
Connectors that Pack Greater Performance, Higher Quality into Less Space at Lower Cost

Engineers, production men and purchasing agents are now realizing that in the Alden connectors below, they've got the only top



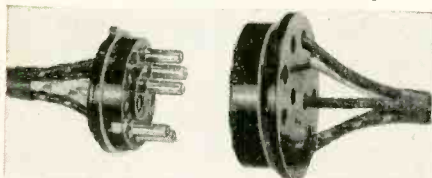
connected contacts that provide long protective molded insulation around each clip and lead — that snub the wire tip for strain relief — and mechanically hold wire tips so they cannot be imperfectly soldered.

211 to 214 SERIES CRT CONNECTORS



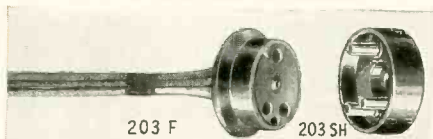
Pioneers in cathode ray tube connectors — magnol, duo-decal, diheptal — meet highest standards for gov't, instrument or TV work.

NON-INTERCHANGEABLE SERIES



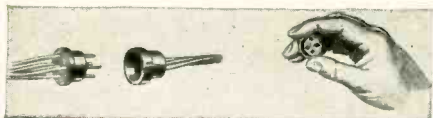
Multiwire connectors with 2 to 11 contacts in variable pin layouts — prevents mis-mating.

200 FC AND 200 SH SERIES



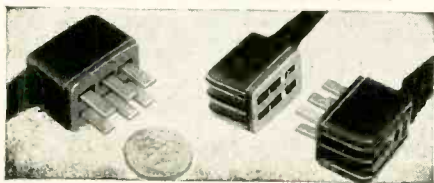
Speaker plugs and cable connectors 3 to 7 contacts — UL collars — Top Engineering.

500 SERIES MINIATURE DISCONNECTS



Most compact connector for AC current or signal — 2 to 4 contacts.

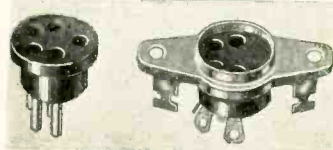
270 AND 170 MULTIBLADE SERIES



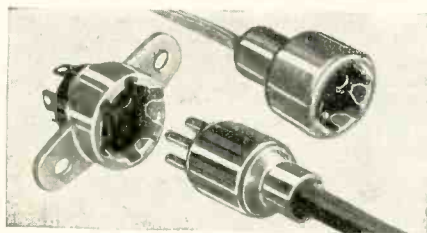
Miniature Plugs and Sockets

for all modern design. Recognized by top production men and engineers for their design — rivet or eyelet to chassis — UL collars — high voltage breakdown — top appearance.

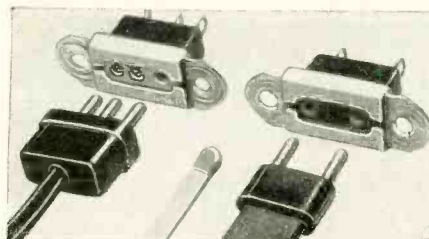
121/5 P AND 441/5 METAL SEAL SERIES



801/5P AND 411/5 SHIELDED SERIES



HA SERIES Miniature Antenna Series



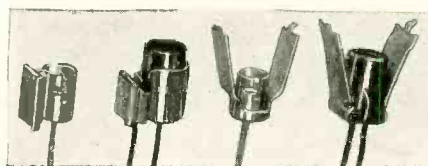
Simple, Rugged Dial Lights

with exclusive NA-ALD "center file" contacts, which hold each strand of wire tip against



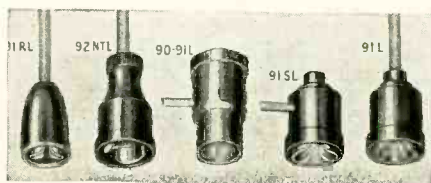
bulb base — for cutting through corrosion — crimps around wire insulation for strain relief.

80 SERIES



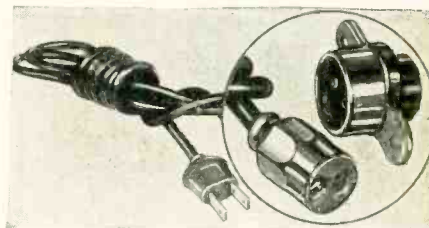
Tube Caps for Every Need

90 SERIES



Detachable Line Cords

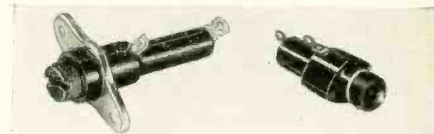
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Complete line of high quality detachable line cords — harmonize with deluxe equipment. "Trip," "click" or shielded locking line cords can meet your every requirement.

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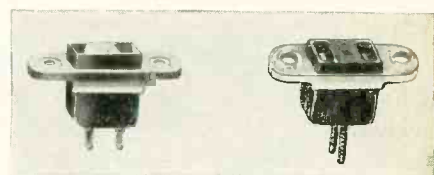
440 FH SERIES



Complete line of fuseholders for all fused equipment. Also new miniature indicator fuse for gov't. work.

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Alden Pioneers Components for Plug-in Unit Construction

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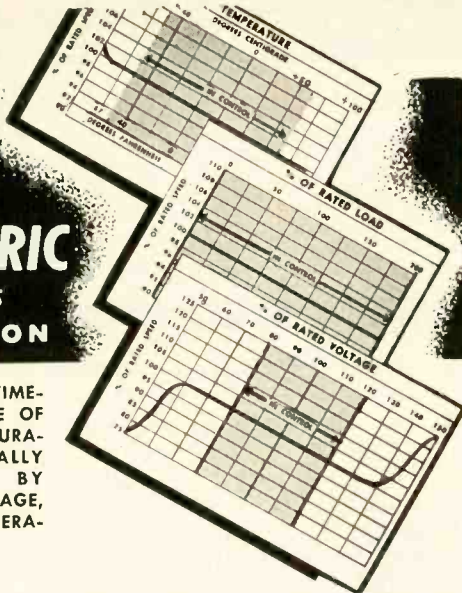
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TIME DELAY RELAYS—Single and multiple switch, adjustable dial, and hermetically sealed, both A.C. and D.C.

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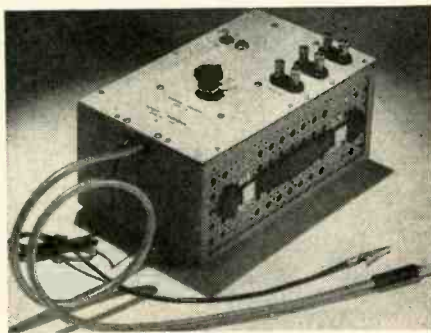
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HIGH INPUT IMPEDANCE DEVICE

MODEL 102 An Instrument amplifier with 200 mgs—6.5 mmf input impedance

Used singly or together, bridges voltmeters and cathode ray oscilloscopes, which have inputs of 1 megohm and 30 mmf, onto signal circuits of 50,000 ohms and higher—such as a pentode amplifier stage with its high resistance plate load—without the usual loss of voltage and high frequency response which would result if the measuring instruments were connected directly. Input Impedance: 200 megohms shunted by 6.5 mmf. Output Impedance: 300 ohms. Gains of 1.00, 10.0, and 100. Frequency Range from 5 cps to 150,000 cps within 2%. Background noise equivalent to 40 to 70 microvolts at the input.

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An attenuator designed to provide low level input signals used in testing high gain amplifiers. Conventional signal sources have outputs which can be varied to a minimum of about 0.1 v. Used to extend range downward; it attenuates in decade steps, and used in conjunction with output control of signal source, makes possible accurate, controllable, and conveniently adjusted test signal voltages from about 10 μ v to 100 v.

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Residual Charge: 0.05% after 0.1 Second Discharge
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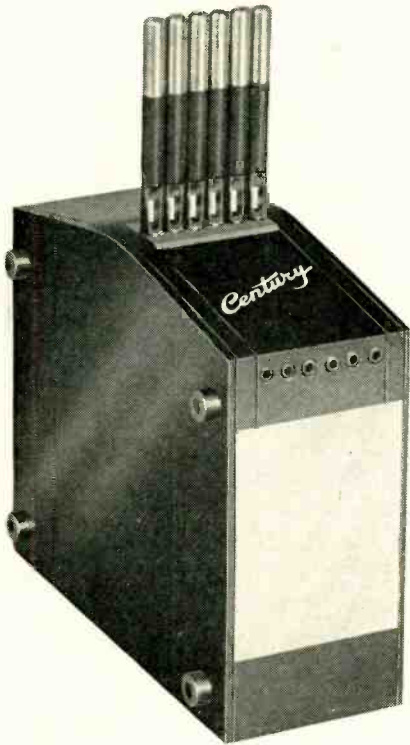
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The Century Model 210 Galvanometer has been designed and tested for the utmost in performance under any conditions. The unique small tubular type construction permits their installation in practically any type or make of photographic recording oscillographs. These galvanometers are offered at low cost over a wide range of frequencies and sensitivities to satisfy most recording requirements. For additional information, write for our Catalog No. CGC 206.

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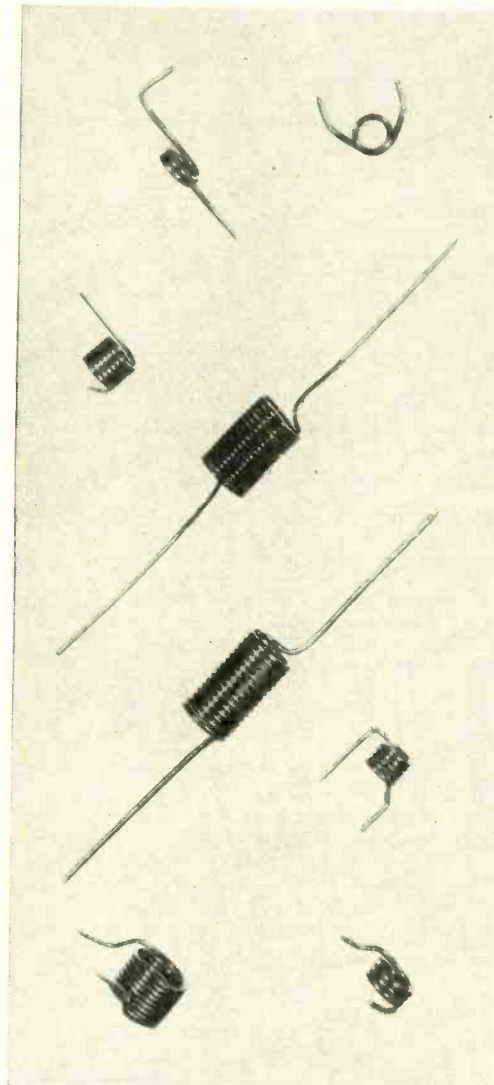
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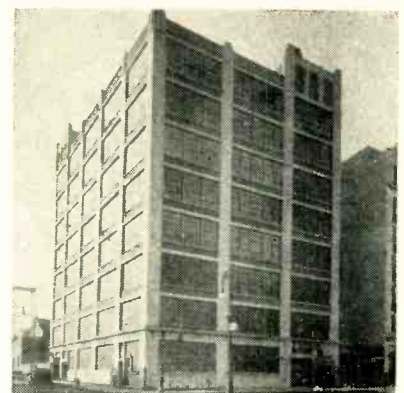
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... with its complete and modern plant, expertly trained personnel, and production "know-how", supply the foremost television manufacturers with channel, filament choke, contact, and band-tuning coils, as illustrated here.

WHY NOT AVAIL YOURSELF of WEBSTER'S experience, which makes possible the quantity production of these coils at the most economical level consistent with high quality standards.

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SQUARE WAVE GENERATOR—Model SG5 An inexpensive step frequency type square wave generator for accurate high speed testing of response characteristics of wide band amplifiers, wide band oscilloscopes, television video amplifiers, etc.



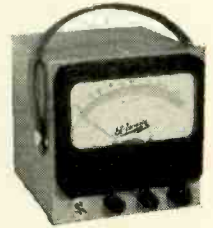
— FEATURES —

1. Five fixed output frequencies of 50, 1000, 100,000 and 500,000 P.P.S.
2. Individual calibration control for each frequency.
3. Rise time .05 microseconds.
4. Output voltage 0.8 to 8 volts peak to peak.
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A small compact portable battery operated insulation resistance tester employing a high quality vibrator power supply as a source of high potential. Operates completely from two small self contained 1 1/2 volt batteries. Total current drain only 150 milliamperes.

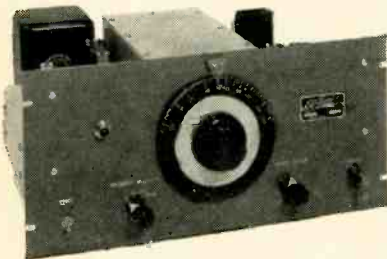


— FEATURES —

1. Resistance Range—5000 megohms at 2000 volts D.C. potential.
2. Meter—4 1/2" rectangular type with 3/8" scale length.
3. Small and light in weight.
4. Provided with leather strap for carrying.
5. Operates completely from two self contained 1 1/2 volt dry batteries.

SIZE 5" x 5 3/8" x 6" WEIGHT 2 lbs.

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Frequency Coverage—20 cycles to 200,000 cycles in four ranges.

Frequency Dial—6" diameter, direct reading, with planetary drive.

Output Voltage—10 Volts maximum.

Calibration Accuracy ± 2% of dial setting indication.

Distortion—3% or less across standard load at any frequency setting and at any output voltage up to maximum.

Hum Level—Minus 50 DB or better.

Standard Load—1000 ohms resistive.

Frequency Response ± 1 DB from 20 to 200,000 C.P.S.

Drift ± 2% or better.

SPECIAL FEATURES

1. Electronically regulated power supply for stable operation under varying line voltage conditions.
2. No electrolytic capacitors are used.
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4. Mounts in standard relay rack or table cabinet.

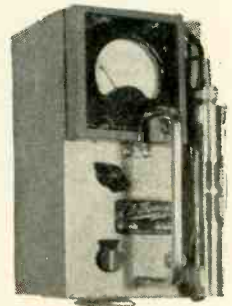
RADIATION SURVEY METER—Model PR-3

FUNCTIONAL DESCRIPTION:

Portable Beta-Gamma discriminating count-rate meter with thin glass wall G.M. tube in probe.

CHARACTERISTICS:

1. Radiation Detected—Beta or Gamma.
2. Discrimination—Rotating Shield on probe. (2mm Brass)
3. Full Scale reading—
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4. Meter—Navy Type sliding scale with individually colored ranges.
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9. Fungus proofed.



10. Shoulder straps provided.
11. Provision for plug-in phones.

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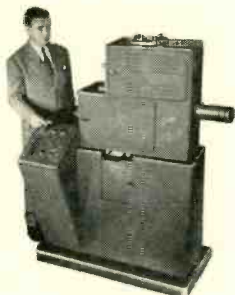
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Centered on a rugged 'square' pedestal, requires a minimum of space. Heavy duty ball bearings. Rotates 360°. Price, \$425.00*



MODEL 430

Cantilevered 'overhang' design. Gives more working space where that space is available. Rugged construction, turns on precision ball bearings. Price, \$875.00*



* Camera cradle not supplied.

Gray LIGHT BOX for Transparencies

Provides back lighting for Telop use.

Price, \$178.23



Gray REVERSE READING CLOCK

For use where reversal is required. Designed to permit superimposing of the commercial or other copy. Price, \$50.85



Gray MULTIPLEXER Model 600

A precision arrangement of mirrors for operation of pairs of projectors simultaneously into a single TV camera or individually into two separate cameras. Enables a greater number of projectors to be used with fewer highly expensive TV cameras. Price, \$393.00



Gray SOUND EFFECTS CONSOLE

Finest equipment made for reproducing sound effects in radio and television broadcasting. For full description write for booklet.

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NEW Viscous-Damped Model 108-B Arm

For all records — 33 1/3, 45 and 78 r.p.m. Radically new suspension development on the viscous damping principle for perfect tracking of records and elimination of tone arm resonances. Instant cartridge change with automatic correct stylus pressure. Solves all transcription problems. IDEAL FOR LP RECORDS. For Pickering, new GE (short), old GE (long) cartridges. Price, less cartridges, \$50.70



Model 106-SP Arm

Designed to meet strictest requirements of modern highly compliant pick-up cartridges. 3 cartridge slides furnished enable GE 1-mil, 2 1/2-mil or 3-mil cartridges or Pickering cartridge to be slipped into position in a jiffy. No tools or solder! Superb reproduction of 33 1/3, 45 or 78 r.p.m. records. Low vertical inertia, precisely adjustable stylus pressure. Price, less cartridges, \$45.15

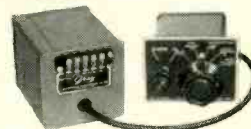


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MODEL 603

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High-frequency characteristics obtainable comprise 5 steps — flat, high roll-off, NAB, good records, poor records. For both GE and Pickering cartridges. Price, \$50.70



MODEL 602 — Has 4 control positions. Highly accurate response curves.

Price, \$49.50

Gray STYLUS FORCE GAUGE Model 901

Preserve your record library! Check stylus pressure with this new gauge. Accurate to 1/2-gram. As simple as it is important to use! Price, \$14.75



All prices f.o.b. Hartford, subject to change without notice.

Please write for bulletins describing the above equipment.



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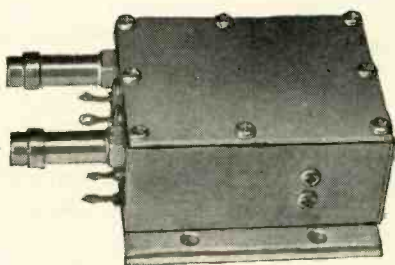
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Tube Type	Description	Operating Voltage	Threshold Voltage	Plateau Length	Plateau Slope per 100v	Active Length	Wall MG/CM ²	Life	Type Base
1B85	Beta-Gamma Aluminum Wall	900	800	200	3%	2.75"	30	10 ⁹	Coaxial
1B86	Miniature Gamma Glass Wall	300	280	60	10%	2.5"	200	5 x 10 ⁷	Leads
1B87	Sub-Miniature Gamma Glass Wall	900	850	100	10%/50v	0.5"	200	10 ⁸	Leads
1B88	Sub-Miniature Gamma Glass Wall	300	275	50	30%/50v	0.5"	200	5 x 10 ⁷	Leads
1B102	Beta-Gamma Mica Window	900	825	150	10%	1.7"	2	Unlimited by use	4 pin
1B106	Beta-Gamma Mica Window	900	825	150	10%	1.7"	2	Unlimited by use	Coaxial
1B67	Beta-Gamma Mica Window	1200	1100	200	5%	2.5"	2.0 to 2.6	10 ⁷	Leads
1B124	Cosmic Ray Chrome Brass	900	800	200	3%	12.5"	300	10 ⁹	Coaxial
1B125	Cosmic Ray Chrome Brass	900	800	200	3%	16"	300	10 ⁹	Coaxial
1B126	Needle Probe Chrome Brass	900	850	75	5%	10 mm	200	10 ⁸	Coaxial

Tube Type	Typical Service	Volts E _{c1}	Volts E _{c2}	Volts E _b	μA I _b	μA I _a	μmhos G _m	Grid current Signal grid
*5800	Electrometer Tetrode	+3.4	-3	+4.5	12	1	15	3x10-15
*5803	Electrometer & D. C. Amp.	-1.7	.....	+7.5	100	2.0	150	10-14
*5828	D. C. Amp.	-1.0	.....	45	250	17.5	450	10-9

*5799	Half Wave Rectifier	Peak Inverse Voltage	Peak Plate Current	D. C. Output Current	Tube Voltage drop
		3000v.	600 μA	200 μA	5.0v. (max.)

	Striking Voltage	Regulating Voltage	Regulating Range	Max. Regulator Current
5841	930	900	2.0-50.0 ma.	50 ma.
5950	730	700	2.0-50.0 ma.	50 ma.
VXR-130	160	130	1.0-2.5 ma.	2.5 ma.

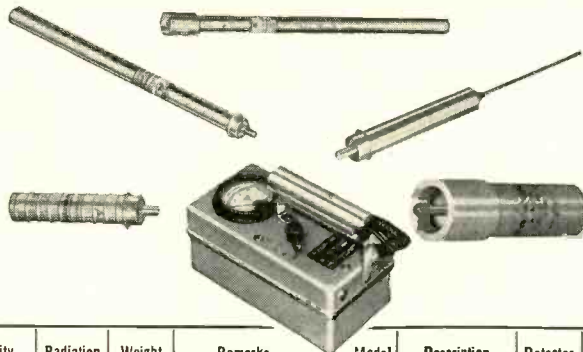
* All filaments 1.25 volts at 10 ma.

THYAC MODEL 389

An all new portable (5¼ lb.) beta gamma survey meter featuring a regulated vibrator power supply and versatility of application with a selection of coaxial based 900 V counter tubes.

Scale Range	
Gamma (Radium)	Beta
0 - 0.2 mr/hr	12 c/sec
0 - 2.0 mr/hr	120 c/sec
0 - 20.0 mr/hr	1200 c/sec

*available as a separate unit



HI-MEG RESISTORS

For electrometer circuits where stability, accuracy, and high humidity operation are of prime consideration.

Characteristics
Resistance Range 10⁸ to 10¹⁴ ohms
*Tolerance from specified resistance ±1%
Temp. Coeff. .06 to 1.5%/°C
Volt. Coeff. -.02 to -.03%/V
*Closer tolerance to order

Model	Description	Detector	Sensitivity	Radiation	Weight	Remarks
247A	Portable survey rate meter	ion chamber	4 ranges: 0-2.5, 25, 250, 2500 mr/hr	50 KV X-Ray Gamma	12 lbs.	Ruggedized alum. die cast—Hermetically sealed chamber
247B	Portable survey rate meter	ion chamber	4 ranges: 0-5, 50, 500, 5000 mr/hr	50 KV X-Ray Gamma	12 lbs.	High intensity—Otherwise same as 247A
247C	Portable survey rate meter	ion chamber	4 ranges: 0-2.5, 25, 250, 2500 mr/hr	30 KV X-Ray Gamma	12 lbs.	Same as A exception chamber is directly exposed by hinged case opening
247D	Portable survey rate meter	ion chamber	4 ranges: 0-5, 50, 500, 5000 mr/hr	30 KV X-Ray Gamma	12 lbs.	Same as B exception chamber is directly exposed by hinged case opening
287	"Minometer" Charger-reader electrometer and chambers	ion chamber	chamber ranges: 0-.2 r 0-.01 r 0-.001 r	X-Ray Gamma	6 lbs.	Personnel protection Measurement minute scattered radiation
392	"Minometer" Portable charger reader electrometer & chamber	ion chamber	chamber range 0-100 r	X-Ray Gamma	4 lbs.	Battery operated—High intensity
300	"Protaximeter" Area monitor integrating, portable	ion chamber	chamber range 0-.2 r	X-Ray Gamma	5 lbs.	Desk top model—Direct reading
390	"Protaximeter" Area monitor integrating, portable	ion chamber	chamber range 0-50 r	X-Ray Gamma	5 lbs.	High intensity

Model	Description	Detector	Sensitivity	Radiation	Weight	Remarks
389	"Thyac" Portable survey rate meter	geiger tube	3 ranges: 0-.2, 2, 20	Beta Gamma	5¼ lbs.	Regulated vibrator power supply
263B	Portable survey rate meter	geiger tube	3 ranges: 0-.2, 2, 20	Beta Gamma	11 lbs.	Earphone indicator
356	Portable survey rate meter	ion chamber	2 range 6000, 60,000 disintegrations /min.	Alpha Beta Gamma	8 lbs.	"Zeuto"
70	"Condenser R Meter" Precision electrometer & chamber	ion chamber	various chambers .25 to 5000 r	X-Ray Gamma	12 lbs.	3% accuracy
381	"Integron" Pre-determined integrating dosimeter	ion chamber	various chambers 0-500 r	X-Ray Gamma	72 lbs.	Pedestal mounted chamber probe and remote control unit
382	"Iometer" X-Ray constancy indicator	ion chamber	3 range arbitrary units	X-Ray Gamma	20 lbs.	Continuously indicates % error in beam intensity
510	Roentgen rate meter	ion chamber	4 ranges: 3, 10, 30, 100 r/min	Gamma X-Ray	20 lbs.	Wave length 50 KV and up
510A	Roentgen rate meter	ion chamber	4 ranges: 30, 100, 300, 1000 r/min	Gamma X-Ray	20 lbs.	Wave length 50 KV and up

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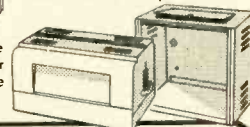


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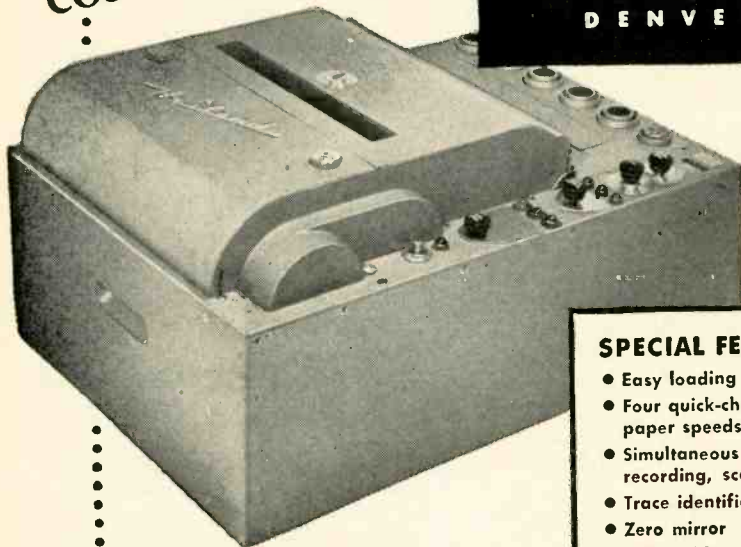
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Developed by Instrument Development Laboratories in conjunction with Pittsburgh Plate Glass Co., the PPG-IDL is now available to help you take the guesswork out of color matching.

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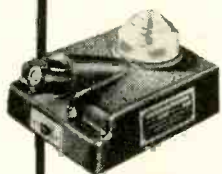
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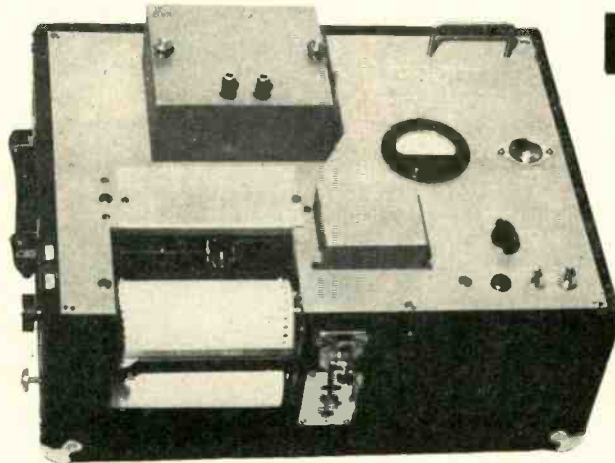
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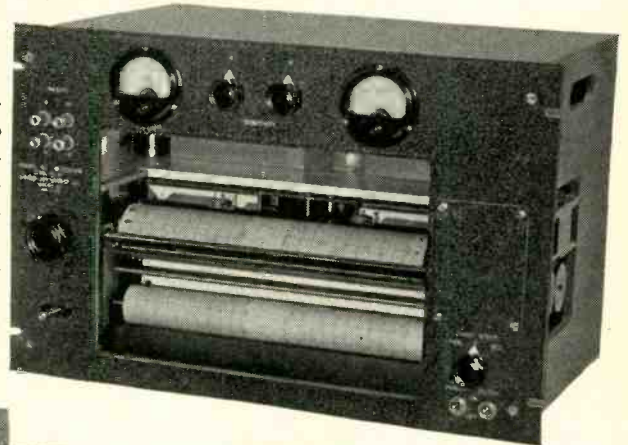
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4" recording width— for field and laboratory use. Recently re-designed, incorporating several new important features. A sturdy practical instrument indispensable for rapidly taking frequency response characteristics of any audio apparatus or complete installation.

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for convenient and efficient recording of two quantities simultaneously. Absolutely self-contained, rugged. Two independent recording channels; two 4" chart widths. Easily connected to oscillators, analyzers, etc.



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POLINEAR RECORDER

combining in one compact unit a **POLAR and FREQUENCY RESPONSE RECORDER**

Applications:

BEAM PATTERN PLOTTING of antennas, microphones, loudspeakers, lighting fixtures, ultrasonic devices.

FREQUENCY RESPONSE RECORDS of microphones, loudspeakers, amplifiers, filters, radio and television circuits.

RECTILINEAR CURVES on vacuum tubes, potentiometers, amplifiers, counting and computing devices.

Mechanical Link Units for connection of these recorders to signal sources are available or can be designed for specific requirements.

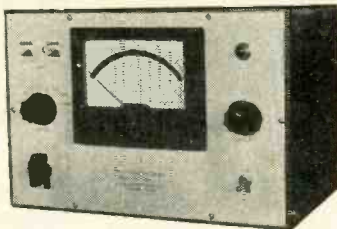
Technical literature on these and other recorders will be mailed upon request. Consult our engineering staff for special applications.

Designers and Manufacturers of Graphic Recorders

SOUND APPARATUS COMPANY STIRLING, N. J.
Instruments Engineered for Individual Requirements

PEAK PULSE VOLTMETER—Model 80A

An automatic slideback instrument in which rapid and accurate meter readings are secured at pulse widths of .25 microseconds and at repetition rates of 10 pps. High frequency compensated attenuator precedes the servo amplifier tube to provide suitable ranges and sensitivity. Phase inverter enables instrument to read on either positive or negative pulses. Controls include an on-off switch, range selector switch, input polarity switch, zero-set control, and a switch which throws a D.C. restorer into the circuit, thus permitting peak to peak measurements.



VOLT. RANGES: 0-10, 0-50, 0-100, 0-500, 0-1000, 0-5000 volts.
 PULSE WIDTH: 0.25 microseconds to 50 milliseconds.
 REPETITION RATES: 10 to 20,000 pps.
 ACCURACY: \pm 3% of full scale.
 INPUT IMPEDANCE: 200,000 ohms.

POWER SUPPLY REGULATOR—Model 60

Provides regulated variable frequency A.C. supply when used in conjunction with an audio power amplifier. Power output is that of audio frequency amplifier used. Consists of a variable RC audio oscillator, the output of which passes through 2 AVC controlled stages to input of amplifier. Amplifier output is fed back to regulator and compared with internal voltage standard. AVC voltage derived from this comparison keeps amplifier output constant. Meter reads AC output voltage directly. Regulation depends somewhat on amplifier used. For example; with Bogan HO 125 Booster amplifier (125 watt), regulation is better than 2% from zero to full load.



FREQ. RANGE: 300 to 900 cycles. Other ranges on special order.
 OVERALL REGULATION: Normally 3% from 0 to full load.
 AVAILABLE DRIVING VOLT: 10v across 600 ohms or 50v across 60,000 ohms.
 OUTPUT AVAILABLE FROM P. A.: 60 to 130 V.A.C. The power obtained depends on the capacity of the power amplifier used.

TELETYPE DISTORTION METER—Model 22

A portable unit that measures bias distortions. May be connected in any teletype circuit with the teletypewriter printer without disturbing its operation. Direct reading of amount of bias distortion on the line can be secured. Any change in distortion on the line is indicated and the new distortion readily determined. Operates by generating a pulse of known width which is compared to width of teletype pulses. When width of known pulse is set the same as teletype pulses, a neon lamp blinks and indicates amount of bias distortion.



RANGE: Mark or space bias distortion 0 to 50%.
 ACCURACY: \pm 3%.
 INPUT: 30 or 60 M.A. neutral or polar, 60 WPM teletype signal.
 INPUT IMPEDANCE: 200 ohms.

ELECTROTAC* R.P.M. METER—Model 90

An electronic tachometer which indicates directly on a 4" meter the R.P.M. of any spark ignition engine. Does not need to be connected to a rotating member of the engine; a simple connection to any spark plug is all that is required. Connection has no effect on the performance of the engine. A valuable instrument in the design, maintenance and production checking of outboard motors, motor cycle engines, etc. Available with battery supply for portable field use.



RANGES: 0-500, 0-5000 R.P.M.
 INPUT: 105v to 125v 60 cycles.
 ACCURACY: \pm 1% when calibrated against controlled 60 cycle line. Internal calibration switch and adjustment are provided.

*Trade Mark

ELECTRONIC FLUX METER

Newly designed Model 150—just in production. Write for price and information.

TELETYPE REGENERATIVE REPEATER

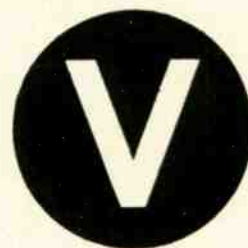
The Model 21 Repeater is an electronic unit designed to correct mark-space distortion in teletype signals. Signals of up to 45% distortion applied to the input of the unit are corrected at the output to less than 5% distortion.

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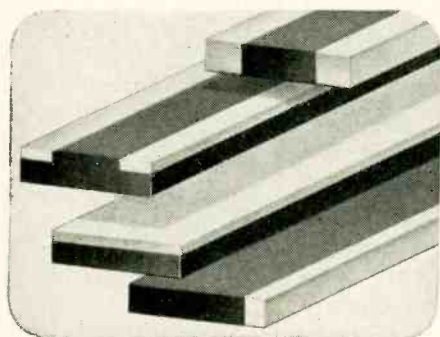
GENERAL PLATE PRODUCTS FOR THE ELECTRONIC INDUSTRIES

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General Plate Laminated Metals are available in strips, sheets, bars, tubing or wire in various sizes and thicknesses. Made by permanently bonding precious metals, such as silver, gold, platinum to base metals, these laminated metals give solid precious metal performance at a fraction of the cost of solid precious metal. The precious metal provides specific performance requirements such as electrical conductivity and corrosion resistance while the base metal reduces costs, provides workability, strength

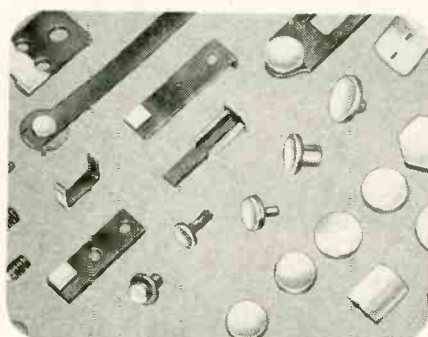


and solderability. General Plate engineers will gladly help you with your problems.



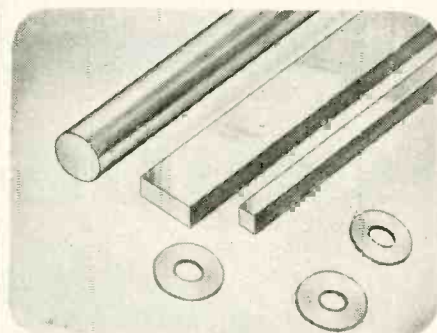
LAMINATED CONTACT MATERIAL

Permanently bonded silver to base metal is available in the following stock—overlay, single and double edgelay, single and double inlay, toplay, ready for you to fabricate into contacts.



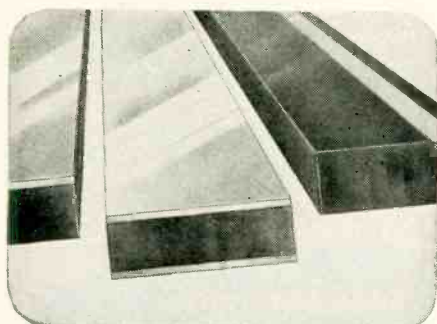
LAMINATED CONTACTS

General Plate can supply all types of fabricated-laminated contacts, buttons, rivets, screws made to customer's specifications. These contacts give high electrical conductivity at reduced costs.



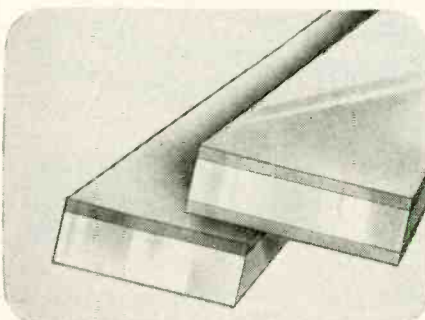
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General Plate manufactures all grades of silver solder, solder filled, flushed, burred, etc., with various flow points for all types of electronic applications.



SILVER ON BERYLLIUM COPPER

Laminated silver on beryllium copper is available with the copper covered with silver on one side or both and silver inlay.



ALCUPLATE COPPER ON ALUMINUM

This laminated metal makes aluminum solderable. The copper provides excellent conductivity, the aluminum light weight. Alsiplate (silver on aluminum) is available.



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**for REMOTE CONTROL
of MULTIPLE
COMPLEX CIRCUITS**

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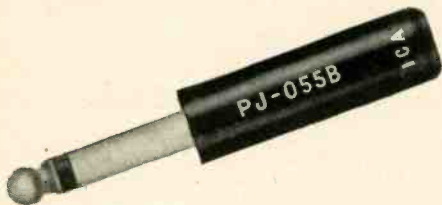
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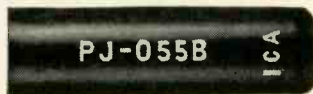
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SPECIAL QUANTITY PRICES!**



Actual size showing interior detail



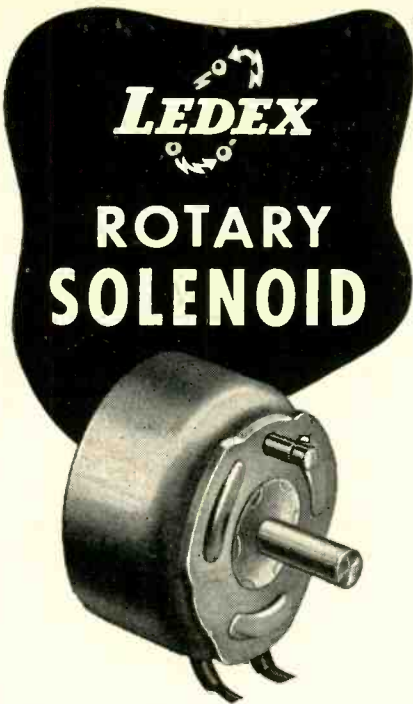
High compression-molded Resinox insulation gives the PJ-055B extremely high dielectric and tensile strengths. The molded Resinox shell combines extreme durability with high dielectric, low moisture absorption characteristics.

A complete catalog of INSULINE products is available upon request



insuline CORPORATION OF AMERICA

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QUALITY PRODUCTS SINCE 1921



SOLVES MANY REMOTE CONTROL PROBLEMS

The many production applications of Ledex Rotary Solenoids vary from the dependable, snap-action tripping of airborne bomb releases to the actuation of rugged, hydraulic valves in heavy duty materials handling equipment.

Five Ledex Rotary Solenoid models are manufactured. Diameters range from 1 1/8 to 3 3/8 inches. Predetermined rotation up to 95° can be engineered to suit your product's requirements. Starting torques for 45° stroke range from 1/4 pound-inches to 50 pound-inches.

We supply to quantity users and solicit the opportunity to be of assistance in engineering a Ledex Rotary Solenoid to meet your product's requirements.

MODEL NO.	2	5	6	7	8
Diameter	1 1/8"	1 7/8"	2 1/4"	2 3/4"	3 3/8"
Torque lb./inches	1/4	5	10	25	50
Weight lbs.	1/6	1/2	1	2 1/4	4 1/4

Magnetic action moves the armature along the solenoid axis. This action is converted into a rotary motion by means of ball bearings on inclined races.



WRITE DIRECT TO

G. H. Leland INC.

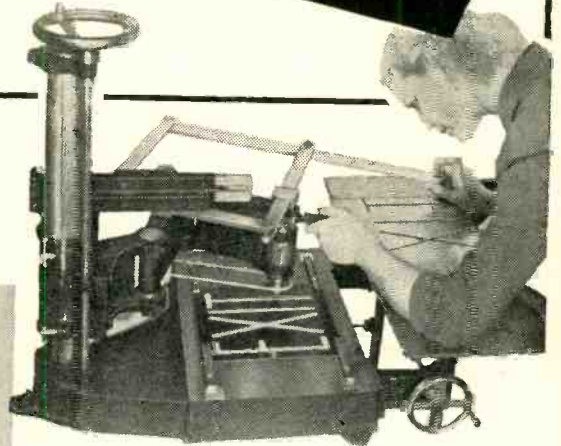
118 WEBSTER STREET

DAYTON 2, OHIO

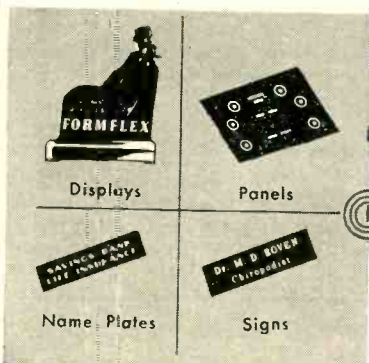
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So simple to operate by unskilled labor.

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an **insuline** cabinet or chassis for every need



Hundreds of styles and sizes for relay racks, transmitters, amplifiers, speakers, meters, etc., many with decorative chrome trim.
All sizes of steel and aluminum standard chassis bases and bottom plates as well as the necessary accessories and hardware for complete assembly work.
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THE NATIONAL VARNISHED PRODUCTS CORP.

Telephone: Rahway 7-8800

Cable Address: NATVAR, Rahway, N. J.

201 RANDOLPH AVENUE

WOODBIDGE, NEW JERSEY

MANUFACTURERS OF



FLEXIBLE INSULATION

NATVAR FLEXIBLE ELECTRICAL INSULATING MATERIALS

STANDARDS Natvar insulations have excellent electrical and physical properties, and meet the requirements of ASTM, NEMA, and other applicable standards with ease. These industry standards for such properties as dielectric strength, tensile strength, heat and oil resistance, as determined by specified test procedure, protect the buyer against inferior materials. At the same time, they provide the buyer with a valid basis for comparison which should enable him to buy quality materials best suited to his needs. Full test reports on Natvar insulations are available on request.

PERFORMANCE Performance is the prime consideration in the manufacture of Natvar insulations. New materials and new methods are constantly being studied and developed to provide improved performance under service conditions. As an example, Natvar 400 extruded vinyl tubing, accepted for its high heat resistance (approved for 105°C) is also outstanding in its resistance to oil, and shows no tendency toward embrittlement when immersed in hot oil for prolonged periods. From the standpoint of performance this is important, because it means that leads insulated and protected with Natvar 400 stay flexible after varnish baking.

UNIFORMITY Natvar insulations give extra protection because of their exceptional uniformity. This uniformity also means that Natvar insulations can be depended upon to be the same, no matter when or where the order is placed.

CONTROL Raw materials, fabrics and papers are laboratory checked against our specifications. Materials in process are subject to constant laboratory control. Both plant and equipment are modern. Natvar insulations are made by experienced production men.

SERVICE Shipments of Natvar standard insulations are usually made on the same day the order is received either from distributors' stock or direct. Orders for special insulations are handled promptly. For problems where special insulations are required to meet unusual conditions, engineering service is available, without obligation. To expedite shipment, give complete detail with each order.

VARNISHED CAMBRIC

Straight cut for application in regular smooth surfaces; bias for irregular surfaces. Supplied in all normal commercial sizes and thicknesses, in yellow or black, and in four finishes, greasy, tacky, dusty and dry. Physical and electrical properties comply with ASTM Specifications with ample safety factor.

VARNISHED CAMBRIC TAPE

Supplied straight cut or seamless bias, in all normal widths and thicknesses, yellow or black, greasy, tacky, dusty or dry. Characteristics same as for VC. Accurately slit for use in taping heads.

VARNISHED CANVAS AND DUCK

For use where greater mechanical protection is required. High strength fabrics coated with same high grade varnishes as VC.

VARNISHED SILK

For use where requirements call for very thin, high dielectric insulation.

VARNISHED SPECIAL RAYON

For use where high tensile and high dielectric strength are required in addition to smoothness and minimum clearance.

VARNISHED FIBERGLAS

Natvar Varnished Fiberglass is Class B insulation for equipment which operates at temperatures above normal safe working range of varnished cambric. Has great mechanical strength and excellent dielectric properties. Available in rolls, tape and full width sheets to 36".

SILICONE COATED FIBERGLAS

For higher permissible temperatures. Available in tape, sheets and rolls 36" wide.

SLOT INSULATION

Combination of Copaco 100% rag paper stock to which a layer of Natvar VC is firmly bonded. The high dielectric strength and moisture resistance of Natvar VC together with the toughness and abrasion resistance of 100% rag paper make a slot insulator which will withstand pounding and chafing without impairment of its electric properties. Rolls or sheets approximately 36" wide.

VARNISHED PAPERS

Chemically inert rope and kraft stocks selected for uniform thickness, tensile and dielectric strength and for freedom from pinholes. In yellow varnished, condenser type tissues and yellow or black varnished heavy papers.

SATURATED SLEEVING

Smooth rayon or Fibreglas braid, single, double or triple saturated with varnish or synthetic. Flexible and smooth for fast application to soft or stranded leads. Wide range of vivid colors for coding. All sizes.

VARNISHED AND LACQUERED TUBING

Smooth rayon or Fibreglas braid impregnated and coated with varnish, or coated with lacquer, in a continuous coating. Exceptionally smooth and flexible. Meets ASTM and NEMA Specifications with ample margin. Several grades to meet various dielectric, aging and heat endurance requirements. Also in heavy-wall cotton braid where higher mechanical strength is required and O.D. is not a limiting factor. Vivid colors for coding. All sizes.

EXTRUDED VINYL TUBING

Natvar 400, for applications requiring high resistance to both heat and oil, is approved by Underwriters' Laboratories for continuous operating temperatures of 105°C, and stays flexible when immersed in hot oil for prolonged periods. It is a well balanced tubing that is tough, elastic, flexible, resistant to abrasion and tear, inert and resistant to oils, waxes, alkalies, acids and most solvents. Available in black, white, transparent and several colors.

V.I.T. 200 is an all-purpose tubing with excellent flexibility through a temperature range of -40°C. to +85°C. Melts at high temperatures but will not support combustion. Shows no disintegration or flaking when immersed in oil. In general has the same inherent characteristics as Natvar 400, but slightly higher tensile strength, averaging 3600 p.s.i.

IDENTIFICATION MARKERS

Short sleeves of varnished braid or extruded vinyl, marked with numbers or letters or both for identifying terminals of complex wiring systems, such as airplane ignition systems. Wide color range, any size, any marking.

SPECIAL PRODUCTS

Our laboratory, manufacturing facilities and engineers are at your service to help with problems not solved by standard materials.

KOTRON SELENIUM RECTIFIERS

GUARANTEED BLOCKING 40 VOLTS PER CELL!

$\frac{1}{3}$ LESS SPACE — $\frac{1}{3}$ LOWER COST

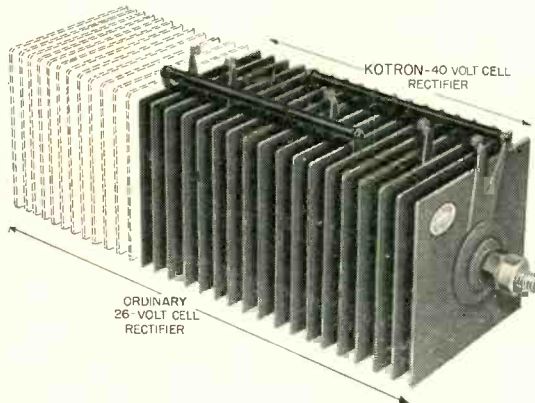
KOTRON alone manufactures selenium rectifiers to block from 6 to 40 volts A.C. rms per cell with optimum current rating for each voltage. Kotron is the first to produce commercial rectifiers embodying this relationship. In high voltage applications, Kotron uses fewer cells than ordinary rectifiers—thus reducing size and cost. In low voltage applications, Kotron works at higher current densities per sq. in. of rectifying area than ordinary selenium rectifiers, reducing size and lowering cost.

In either direction, Kotron sets new standards!

Kotron mechanical features match Kotron superior electrical characteristics. Square or rectangular plates offer maximum wattage in minimum space. Rectifier cells and terminals are mechanically interlocked to prevent twisting out of alignment in stack assembly (pat. pending). Double terminals, where necessary, facilitate connection to external circuits. Echelon terminal structure eliminates soldered or internal stack connections.

KOTRON rectifiers whether for 1 ampere or thousands of amperes, are custom-built and tailored to the application, giving maximum efficiency with minimum cost. Kotron rectifiers are manufactured by selenium rectifier specialists with years of technical experience. Their specialized engineering knowledge and consulting service is available without obligation.

Write for descriptive sheets. Submit specifications on your requirements for quotations.

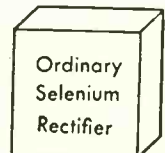


NEW STANDARD FOR HIGH-VOLTAGE, LOW-CURRENT SELENIUM RECTIFIERS

30 Bridge, 125 volt, 4.75 amp., self-cooled KOTRON RECTIFIER

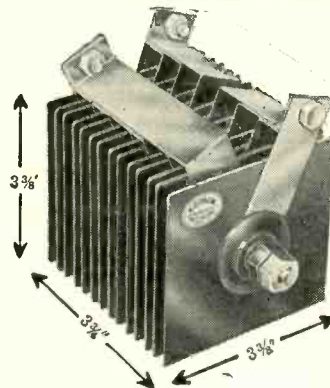


73 CU. IN.



122 CU. IN.

COMPARATIVE SIZES OF RECTIFIERS FOR SAME WATTS OUTPUT

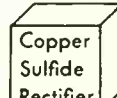


NEW STANDARD FOR LOW-VOLTAGE, HIGH CURRENT SELENIUM RECTIFIERS

1 (1), 9-volt, 100 amp. center-tap, fan-cooled, fast-charger KOTRON RECTIFIER (44 cu. in.)



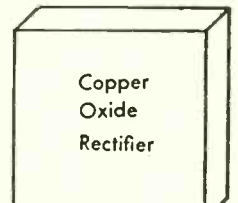
44 CU. IN.



61 CU. IN.



137 CU. IN.



283 CU. IN.

COMPARATIVE SIZES OF RECTIFIERS FOR SAME WATTS OUTPUT

Proportionate savings in size and weight for low-voltage, high-current applications such as electro-plating, power supplies, etc.



KOTRON RECTIFIER CORP.

AN AFFILIATE OF STANDARD ARCTURUS CORPORATION

54 CLARK STREET

NEWARK 4, N. J.

GRAYHILL SWITCHES and RELAY



**GRAYHILL NO. 2000
SNAP ACTION SWITCHES**
Momentary contact, single pole, single throw type. Audible click when switch is activated. Approx. .050" pre-travel, virtually no over-travel. Contact gap .015". Single hole panel mounting. Two hex nuts. Bushings 15/32"—32 thread.

NO. 2201 NORMALLY OPEN
NO. 2202 NORMALLY CLOSED
Rating—10 Amps., 115 volts AC
1 Amp., 115 volts DC



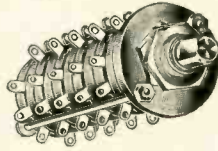
**GRAYHILL NO. 4000
PUSH BUTTON SWITCH**
Non-snap action. Momentary contact, single pole, single throw type. Over-travel approx. .046", pre-travel .078". Single hole panel mounting. Bushing 15/32"—32 thread) and hex nut assembly.

NO. 4001 NORMALLY OPEN
NO. 4002 NORMALLY CLOSED
Rating—1/2 Amp., 115 volts, AC

Grayhill No. 3000 ROTARY TAP SWITCH



For special - circuit - combination applications. 1 to 12 decks. 2 to 11 contacts per deck. Rated at 20 Amps., 115 Volts AC.



GRAYHILL NO. 5000 MINIATURE ROTARY TAP SWITCH

SHORTING (make before break) and **NON-SHORTING** (break before make). From 1 to 10 decks. Accommodates up to 10 contact positions on each deck. With 10 positions, switch rotates 360° in either direction. When 9 or less positions—stops permit rotation only through required positions. Nickel-plated brass rivet contacts—silver-plated rotor blade. Exterior metal parts are cadmium-plated. Bushing, 3/8"—32 thread. Behind panel length from 27/64" (1 deck) to 4 1/2" (10 decks).

Rated to break—1 Amp., 115 Volts AC
to carry—5 Amps., 115 Volts AC

Grayhill PLUG-IN RELAY

No wires. Plug connectors for rapid insertion. Contact arrangements—SPST, SPDT, DPST, DPDT. Range, 6-230 Volts AC or DC.



Silver contacts rated at 10 Amps. per pole on a resistance load.

Grayhill

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Chicago 24, Illinois

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pictured here is our famous infra-red viewscope for color comparison and document examinations.

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INFRA RED IMAGE TUBES . . . in stock
CESIUM VAPOR LAMPS . . .
INFRA RED PHOSPHORS . . .
SCHMIDT OPTICAL SYSTEMS . . .
HIGH VOLTAGE SUPPLIES . . . small portable types
ELECTROSTATIC VOLTMETERS . . .
ULTRA VIOLET MATERIALS . . . filters, lamps, phosphors

Most material shipped immediately from stock. Let us quote on your requirements. Quotations for built to order instruments cheerfully given.

PRECISE MEASUREMENTS COMPANY

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942 Kings Highway Brooklyn 23, N. Y.

Miniaturize NOW

WITH BOND PRECISION WIRE WOUND RESISTORS AND COILS

BOND maintains a complete line of precision wire-wound resistors engineered for lower cost and higher resistance in smaller type bobbins. By special design, the resistance range of all BOND resistors has been extended without the use of special alloys at a higher cost.

Miniature type 503 (shown at the bottom of the photograph) rated at a maximum resistance of 125,000 ohms and 1/5 watt dissipation is the smallest non-inductive unit now being manufactured.

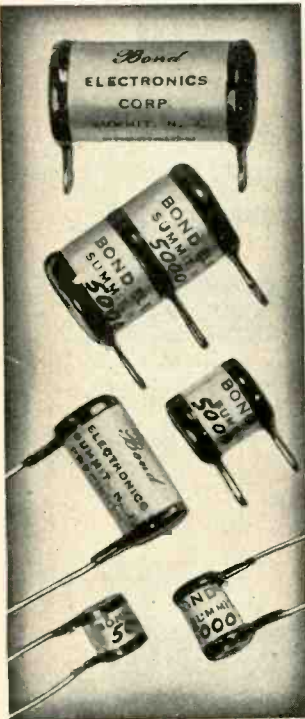
All standard units are protected at no extra cost from humidity and fungi by a special process incorporating two layers of varnish impregnation. After labeling, all resistors are coated with a third layer of a BOND exclusive material protecting the labels and resistors from flame, oil, abrasive material, salt water and extreme thermal shocks.

The entire BOND line of resistors is manufactured in accordance with JAN-R-93 specifications.

- BOND coil facilities now available:
- TOROIDAL
 - BOBBIN
 - INDUSTRIAL
 - RADIO
 - SOLENOID
 - TELEVISION

for custom winding to your exact specifications and requirements.

Send Today for Complete Catalog and Engineering Bulletin



Photograph shows actual sizes

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QUAM SPEAKERS

FIRST

IN REPLACEMENT FIELD

FIRST

FOR ORIGINAL EQUIPMENT

ONLY QUAM SPEAKERS

have the

U-SHAPED COIL POT

and

ADJUST-A-CONE

SUSPENSION

U-SHAPED COIL POT is used throughout the QUAM Line and provides an unbroken flux path of sufficient cross section to carry the full energy of the magnetic field, U.S. Pat. No. 2,020,211 and 2,020,212.

ADJUST-A-CONE SUSPENSION

—While in other speakers the spider is cemented in place with no provision for final adjustment, the QUAM method permits precision centering of the voice coil in the final production operation. U. S. Pat. No. 2,475,516.

UNIVERSAL BRACKET, provided with all QUAM $3\frac{1}{2}$ " to $6\frac{1}{2}$ " speakers, makes the most difficult installations easy.

ELECTRO-DYNAMIC AND PERMANENT MAGNET SPEAKERS in the following sizes $3\frac{1}{2}$ ", 4", 5", $5\frac{1}{2}$ ", $6\frac{1}{2}$ ", 7", 8", 10", 12", 4" x 6", 5" x 7", 6" x 9".

PUBLIC ADDRESS P.M. SPEAKERS in 8", 10" and 12" sizes.

CO-AXIAL SPEAKERS—12" with a 3" tweeter, 15" with a 5" tweeter.

TELEVISION SPEAKERS. Electro-Dynamic and P.M., in all sizes.

QUAM FOCALIZER UNIT utilizes Alnico V Permanent Magnets instead of the more expensive and less stable wire-wound construction. Provides a sharper focus of television image and is unaffected by operating temperatures and voltage fluctuations. Write for details on this unit and Quam Ion Traps.

WRITE FOR COMPLETE
DESCRIPTIVE CATALOG!

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Cottage Grove at 33rd Place Chicago 16, Ill.
Makers of Quality Speakers for 27 Years.

PLAY SAFE WITH A LEADER-

in the Radio, Electronic and
Television Industries



Glaser LECTRON ROsin CORE SOLDER

Acclaimed by manufacturers across the country, in the radio, electronic, and television industries as the "best" activated rosin core solder for speeding soldering operations on the production line.

Made with an exclusive activated rosin flux, Glaser Lectron Rosin Core Solder is more efficient and faster than plain rosin core solder. Bonds copper, brass, nickel, chrome, and other metals perfectly and permanently—yet is non-corrosive and non-conductive. Available in any tin-lead alloy and wire gauge.

* Satisfied users of Glaser Lectron Rosin Core Solder report gains of 15% or better in soldering speed on their production lines.

GLASER ROsin CORE SOLDER

Both Glaser Lectron Rosin Core and Glaser Rosin Core Solders are made from the purest virgin tin and lead, and perfect flux. They take hold instantly—forming a permanent solder bond.

For greater economy in your soldering operations specify Glaser's Core Solders.

OTHER GLASER PRODUCTS

Glaser Solder Pre-forms, Glaser Bar, Solid Wire, or Ingot Solder, Glaser Fluxes for every purpose.

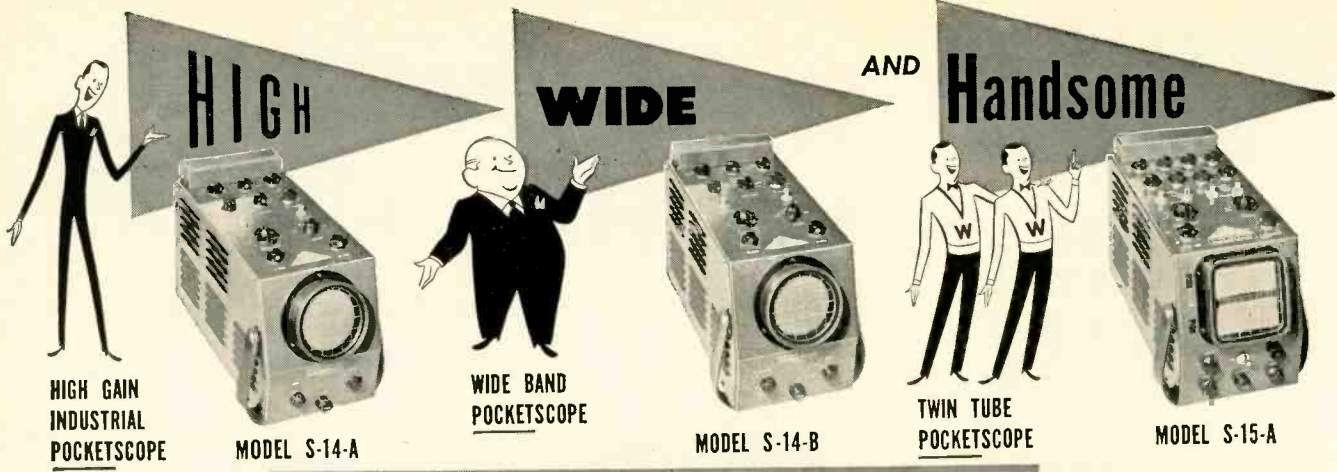
Our Engineering Department will gladly assist you with any soldering or flux problem, without any obligation. Free solder or flux sample upon request.

GLASER LEAD CO., INC.

21-31 Wyckoff Avenue, Brooklyn 27, N. Y.



OUR 28TH YEAR OF DEPENDABLE SERVICE TO AMERICAN INDUSTRIES



HIGH GAIN INDUSTRIAL POKETSCOPE

MODEL S-14-A

WIDE BAND POKETSCOPE

MODEL S-14-B

TWIN TUBE POKETSCOPE

MODEL S-15-A

THE WATERMAN LINE-UP

HI, WIDE and HANDSOME POKETSCOPES are characterized by small size, light weight, and outstanding electrical performance. All units have frequency compensated attenuators as well as non-frequency discriminating gain controls. All units have both periodic and trigger sweeps from 1/2 cycle to 50KC. The amplifiers are direct coupled thus frequency response starts from 0 cycles. No peaking coils are used, thus, the transient response is good. Full expansion of trace, both vertical and horizontal, is built in.

Combination filter and graph screens are used for better visibility, thus traces can be observed even under high ambient light condition. Binding posts for convenience of connections, with effective shield, are used. S-14-A has sensitivity of 10 mv/inch with pass band above 200KC. S-14-B has sensitivity of 50 mv/inch with pass band above 1 megacycle. S-15-A is similar to S-14-A except that it has two independent CR Tubes for multi-trace oscilloscope work. Accessories such as carrying cases and probes are available.



S-10-B



S-11-A



S-12-A



S-12-B



S-13-A



S-21-A

POKETSCOPES and **RAKSCOPES** have achieved a reputation for dependability and accuracy. The **LINEAR TIME BASE** can be used with the S-11-A **POKETSCOPE** or with any other oscilloscope to convert the scope to trigger operation from 1/2 cycle per second.

WATERMAN RAYONIC TUBE DEVELOPMENTS



3SP

Since the introduction of Waterman RAYONIC 3MP1 tube for miniaturized oscilloscopes, Waterman has developed a rectangular tube for multi-trace oscilloscopy. Identified as the Waterman RAYONIC 3SP, it is available in P1, P2, P7 and P11 screen phosphors. The face of the tube is 1 1/2" x 3" and the over-all length is 9 1/4". Its unique design permits two 3SP tubes to occupy the same space as a single 3" round tube, a feature which is utilized in the S-15-A TWIN-TUBE POKETSCOPE. On a standard 19" relay rack, it is possible to mount up to ten 3SP tubes with sufficient clearances for rack requirements. Photographic means of recording are under development and will be available shortly.



3MP

TYPICAL OPERATION

TUBE	VOLTS ANODE #2	VOLTS ANODE #1	VOLTS GRID #1	V/IN D1, D2	V/IN D3, D4	MAX. VOLT ANODE #2	MAX. VOLT ANODE #1	VOLTS HEATER	CURRENT HEATER
3SP	1000	165 to 310	-28 to -67	73 to 99	52 to 70	2750	1100	6.3	.6 Amp.
	2000	330 to 620	-58 to -135	146 to 198	104 to 140				
3MP	1000	200 to 350	0 to -68	140 to 190	130 to 180	2500	1000	6.3	.6 Amp.
	2000	400 to 700	0 to -126	280 to 380	260 to 360				

WATERMAN PRODUCTS CO., INC.

PHILADELPHIA 25, PENNA., U.S.A.

MANUFACTURERS OF: **POKETSCOPES**® — **RAKSCOPES**® and **RAYONIC**® TUBES

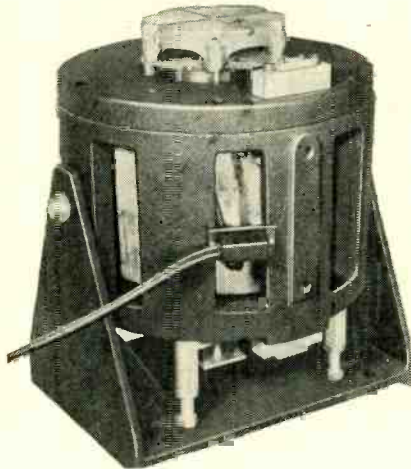
CABLE ADDRESS: POKETSCOPE, PHILA.



THE MB MANUFACTURING COMPANY, INC.

1070 State Street, New Haven 11, Conn. • Products for the Measurement, Reproduction and Control of Vibration

MB VIBRATION EXCITERS and CALIBRATORS

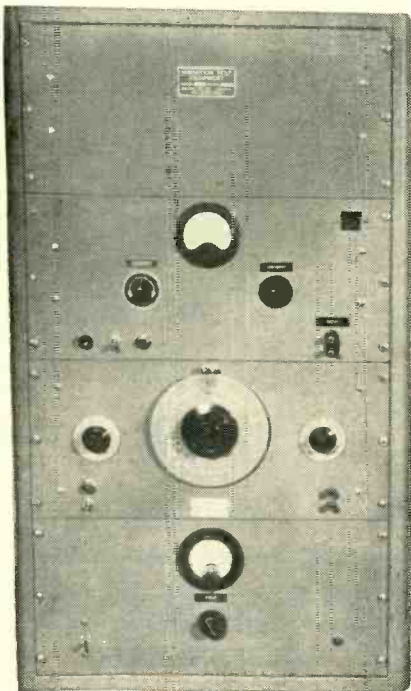


S-3 EXCITER

These MB products have shown themselves to be valuable, versatile test and quality-control tools to industry. Producing results quickly, dependably, and often *visually*, they have many important applications. For example: (1) Fatigue testing of mechanical and electrical structures to destruction under dynamic loads . . . (2) Determination of noise sources in automobiles, bodies and chassis, air conditioning equipment, blowers and similar equipment. . . (3) Shake testing of light electrical components such as relays, switches or radio chassis to determine the ability of components to operate under high vibratory loads. . . (4) Determination of damping characteristics of rubber, steel, brass, plastics and other materials. . . (5) Identification of resonant frequencies and modes. These exciters also provide a convenient means for determining natural modes of wings, stabilizers, fin and control surfaces on aircraft structures.

The Model C-1 and C-31 Vibration-Pickup Calibrators listed below have been specifically designed for the requirements of calibration work. Not only can they be used for calibration of vibration pickups over wide frequency range, but also as vibration exciters.

T112031 POWER SUPPLY (for Model C-1)



Model No.	Rated Force	Total Stroke	Power Supply	Usable Range c.p.s.
S-A	10 lb.	1/2 in.	Electronic	20 to 20,000
C-31	25 lb.	1/2 in.	Electronic	4 to 70,000
C-1	50 lb.	1/2 in.	Electronic	4 to 70,000
S-3	200 lb.	1 in.	Rotating	3 to 500

LARGER FORCE RATINGS ARE ALSO AVAILABLE • WRITE FOR DATA.

MB VIBRATION PICKUP

An aid to vibration control and production inspection . . . sensitive to low amplitude vibration . . . can be used with wide range of equipment . . . simple field adjustment converts from horizontal to vertical use . . . electrically damped . . . maintains calibration over wide temperature ranges . . . resonant frequency below 5 c.p.s.

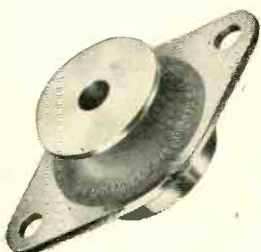


MB VIBRATION METER

This precision Model "M-1" meter offers a complete, compact unit for vibration measurements when used in conjunction with the MB vibration pickup. It provides for accurate readings of accelerations, velocities, amplitudes. Simple, rugged, battery-operated, and portable, it is outstanding for quality control or research.



ISOMODE* COMPRESSION-TYPE ISOLATORS



These units utilize the properties of rubber in balanced compression and shear. They provide large deflection ratings together with high load capacity, small size, and exceptional stability. Have equal spring rates in all directions—mount at any angle—absorb vibrations for every plane. Unit load-range 50 lbs. to 2500 lbs. Write for the *Isomode* Design Chart.

STANDARD PLATE-TYPE ISOMODE* MOUNTS



These vibration isolators are built with standard mounting dimensions—are available for loadings of 1/2 to 100 pounds per unit. An outstanding feature is the equal spring rate in every direction. No matter at what angle they are installed, they will absorb vibration with same high efficiency. *Reg. U. S. Pat. Off.

INDUCTOROIDS

TOROIDAL INDUCTANCES OF HIGH "Q" QUALITY

Toroidal Inductances wound on Molybdenum Permaloy compressed powdered dust cores are available in all practical inductance values. Several core sizes and types are stocked making it possible to supply high Q inductances, especially suitable for *your* frequency and load ranges. We supply Inductoroids either cased or uncased

Filters and Equalizers

Because of their high Q, great inductance stability, and extremely low pick-up from external fields toroidal coils are highly desirable for such applications as wave filters, equalizers, and similar circuits. We supply these networks built to meet your circuit specifications or we will design and build such networks to meet your performance specifications.

Important! Send us your specific requirements.

DE COURSEY ENGINEERING LABORATORY

P. O. BOX 235

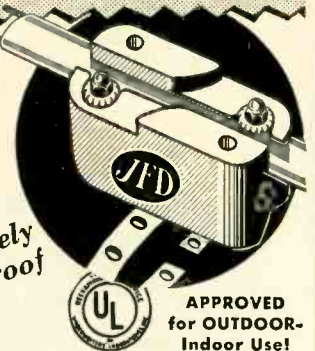
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LIGHTNING ARRESTER

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weather
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APPROVED
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Indoor Use!

Protects Television Sets Against
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JFD SAFE TV GUARD

Fits Any Type of Twin Lead

No. AT102 for Regular Twin Lead
No. AT103 for Oval Jumbo Twin Lead
No. AT103 Also for Tubular Twin Lead
BOTH Models Conform With Fire
Underwriters and National Electrical
Code Requirements for OUTDOOR
Installations.

\$2.25
EACH

SIMPLE TO INSTALL . . . For maximum efficiency, arrester should be mounted outside window nearest to TV receiver, with ground wire attached to nearest grounded point. No stripping, cutting or spreading of wires necessary. Supplied complete with 4 ft. length of Ductile Aluminum Ground Wire for Wall Mounting, and Strap for Mast or Grounded Pipe installation.

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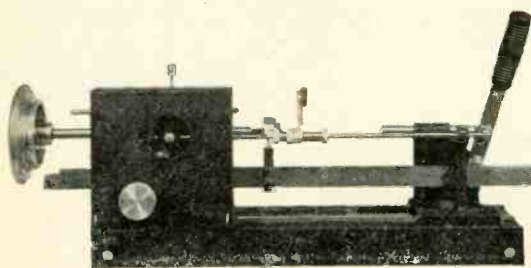
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Model W used for the manufacture of all types of lattice coils and small layer wound coils of all descriptions.

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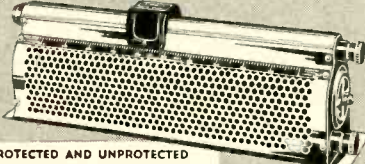
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7 SIZES • 50 TO 500 WATT

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Regulated
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VOLTAGE CALIBRATORS—
0.01mV to 1000V

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D-C BRIDGE CONTROL

energized by 0-100V d-c, for resistance bridge work.

A-C BRIDGE CONTROL

energized by 0-10V 5 kc-100 kc carrier.

These self-contained units provide power, balancing voltage, calibrating means and sensitive meter, - for use with differential transformers, strain gage bridges, etc. - for measurement of Pressure, Displacement, Force, Vibration, Temperature, Strain, etc. Static or Dynamic Studies.

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1 micro-inch to 1 inch range, plus-minus deviations from a standard are shown on meter or CRT. For measurement or control.

CALIBRATOR continuously adjustable signal voltage, 8 ranges, indicated on built-in precision meter.

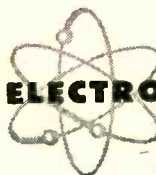
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"Custom Builders of Electronic Instruments Since 1943."



a plus feature

Immediately following the Product Listings in the **DIRECTORY SECTION** of this Issue

is a list of more than **2500**

TRADE NAMES of electronic and allied products.

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The answer to many of your UHF insulating, sealing, terminating problems. Write for free literature and samples.

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Radio • Television • UHF Components • Installations

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INHIBIT FUNGUS ATTACK

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FUNGICIDAL COATINGS that prevent moisture infiltration and effectively inhibit organic attack. All of the coatings are easy to apply, non corrosive, biologically effective, and non toxic to humans. INSL-X fungicidal coatings meet rigid Government specifications.

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COIL COATINGS that are rapid drying, have high dielectric strength and are chemically neutral to fine wire. They are thermally stable, and suitable for long lived applications. Outstanding anti-corona properties are highly desirable for *TELEVISION INSULATION*.

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| 2. Rotating Fields | 5. Magnetos |
| 3. Transformers | 6. Repair Shop Use |

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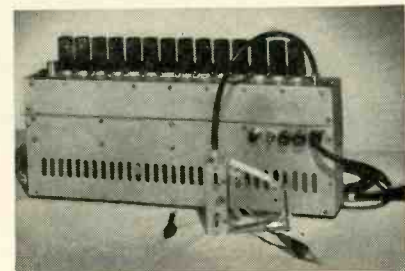
ELECTRONIC INSTRUMENTS

VARIABLE ELECTRONIC FILTERS (302)



1. CUTOFF RANGE: 20 cycles to 200 KC
2. FILTER SECTIONS: two
3. INSERTION LOSS: 0 db
4. ATTENUATION RATE: 36 db per octave maximum
5. FUNCTION: High-pass, low-pass, band-pass
6. Also available, the Model 300 single-section Filter.

CHAIN PULSE AMPLIFIER (214)



1. BANDWIDTH: 40 KC to 100 MC
2. PULSE GAIN: 30 db
3. RISE TIME: .006 microseconds
4. OUTPUT VOLTAGE: 65 volts
5. PULSE GAIN: 30 db
6. INPUT IMPEDANCE: 180 ohms

WIDE-BAND CHAIN AMPLIFIERS (202P)



1. BANDWIDTH: 100 KC to 200 MC
2. VOLTAGE GAIN: 20 db
3. RISE TIME: Less than .003 microseconds
4. IMPEDANCE: 200 ohms
5. Also available, Model 200A, single-stage; Model 204, four-stage; Model 212TV Amplifier.

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Manufacturers of Wide-Band Amplifiers for Television, Continuously Variable Filters, Temperature Controls, Knobs, and Power Supplies.

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Tunable or fixed frequency — 1,000 to 25,000 megacycles — power range from a few watts to several megawatts.

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Fixed frequency, tunable and frequency modulated tunable — 1,000 to 10,000 megacycles — power range from a few watts to several kilowatts.

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Integral and external cavity, low power — frequency range, 500 to 50,000 megacycles.

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Cold-cathode, gas-filled rectifier tubes — ruggedized diodes, triodes and pentodes for aircraft, industrial and military service — voltage regulator, voltage reference and radiation counter (Geiger-Mueller) tubes — germanium crystal diodes.

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Low drain, filamentary tubes; fit standard sockets or may be soldered or welded into the circuit. Over 40 types — over half a million in stock — available through 310 Raytheon Tube Distributors.

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FRACTIONAL H. P. MOTORS

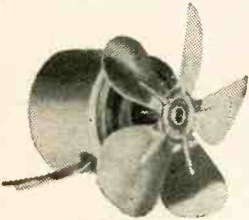
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SPECIAL & STANDARD ROTATING ELECTRICAL EQUIPMENT



400 CYCLE MOTOR



AXIAL FLOW BLOWER



ALTERNATOR



CENTRIFUGAL BLOWER

MILITARY MOTORS • BLOWERS • GENERATORS

400 and 60 Cycle—Variable Frequency

Our Military units are designed to meet all important "JAN" specifications and they can be manufactured to meet AAF Humidity specification 41065B Method 31.

FEATURES: Ball bearings throughout with accepted lubricant • Anodized aluminum construction • Wide ambient temperature range • Radically improved cooling means • Minimum size and weight • Improved humidity protection • Fungus protected.

MOTORS				BLOWERS			
hp	Model No.	Speed RPM	Dimensions O.D. Length	CFM	Model No.	Capacitor Motor Type	
400 Cycles (115 V., 1 Phase)	1/50	J31 (A)	7000 2" 3 3/8"	400 Cycle (115 V., 1 Phase) 22 15-20 13 110 375	J51 (E)	J31A	
	1/100	J31E (A)	7200 2" 3 3/8"		B3P2Q (F) (E)	J31E	
	1/200	J31G (C)	8000 2" 3 3/8"		J55 (E)	J49A	
	1/200	J33 (C)	8000 1 3/4" 2 1/2"		J58B (E)	J72B	
	1/50	J33D (A)	7000 1 3/4" 2 1/2"		J81 (G)	J33D	
	1/400	J49A (A)	7000 1 3/4" 2 1/2"				
60 Cycles (115 V.)	1/15	J72 (A)	5400 3 3/8" 3 3/8"	60 Cycles (115 V., 1 Phase) 10 20 20 6 110 125 170 475	J50 (E)	J49D	
	1/50	J72B (A)	4700 3 3/8" 3 3/8"		J50-1 (E)	J49D	
	1/300	J49D (A)	3000 1 3/4" 2 1/2"		J50E (E) (D)	J49E	
	1/300	J49E (D)	3000 1 3/4" 2 1/2"		J54 (E)	J49D	
	1/100	J49F (A)	3000 1 3/4" 2 1/2"		J57 (E)	J71	
	1/50	J71 (A)	3300 3 3/8" 3 3/8"		J57-9 (E)	J71C-4	
				J80A (G)	J49D		
				J87 (G)	J71		

A—Capacitor. C—Synchronous (3 phase).— D—Cap. Double Shaft Ext. E—Centrifugal. F—Variable Frequency Centrifugal. G—Propellor Fan.

Model	Rating	Output	DC Voltage Generator	
			Model	Rating
J15	25 V., 250 Cy. at 5000 rpm	—		
N2A	115 V., 400 Cy. at 6000 rpm	45 V.A.		
N2B	115 V., 400 Cy. at 3600 rpm	15 V.A.	J36	.02 V/rpm 5000 rpm max.
N3C	15 V., 180 Cy. at 3600 rpm	1.1 V.A.		
N4A	70 V., 80 Cy. at 3600 rpm	10 V.A.	J36A	.02 V/rpm 1000 rpm max.
N6A	45 V., 1000 Cy. at 5000 rpm	25 V.A.		
N8A	120 V., 400 Cy. at 4000 rpm	400 V.A.		

DUAL AND SINGLE SPEED

HYSTERESIS SYNCHRONOUS MOTORS



1/20 • 1/50 • 1/100 HP 2 Speed Hysteresis

A most important advantage of these motors is their ability to synchronize independently of inertia present in the load. Unaffected by load inertia and need only enough power to drive frictional component of load. Often the effect of inertia predominates to the extent that a hysteresis motor will pull the load more satisfactorily than a conventional salient pole synchronous motor of twice its hp rating. Noise and vibration extremely low. Synchronous speed—absolutely constant regardless of load variations within rating of motor and regardless of variation in line voltage. Hunt and "Wow" reduced—less speed shift due to sudden variation in load or line voltage.

PERFORMANCE (115 V.-60 Cy)

hp	Model No.	Speed RPM	Torque (oz./in.)	
			Start	Pull-In
1/20 (B)	93HSK-1	1800	42	30
1/50 (B)	LH731NCJ	1800	14	12
1/100 (B)	LH730CJ	1800	7	6
1/50-1/40 (A)	LH712MNCJ	1800/3600	13/12	11/7.5
1/100-1/50 (A)	LH712NQCJ	900/1800	12/12	11/11

A—Ball Bearing B—Sleeve Bearing

LET US FIT AN E-A-D UNIT TO YOUR APPLICATION

BF 94DDL-2—CENTRIFUGAL BLOWER: 250 CFM at .5" static pressure (NAFM), 330 CFM at 0" static pressure, 1/8 HP capacitor induction motor, 120 volts, single phase, 60 cycles, 3200 RPM, clockwise or counter-clockwise rotation, rigid base, overall dimensions—8 3/8" x 7 7/8" x 9 5/8".

F3NPIS—VARIABLE FREQUENCY AXIAL BLOWER: Designed to operate 50-60 cycles and 360-1600 cycle. Features minimum change in current, power, delivery, and speed over maximum frequency range. Using 3" fan average delivery 220 CFM, average speed 6200 RPM. Overall dimensions—2" diameter x 3 3/8".

P31—ROTARY PHASE CONVERTER: Features balanced, output, stable operation, high efficiency, minimum size and weight. 115 volts, 400 cycles, 7100 RPM, rated output 40-60 watts, weight approx. 16 ounces, overall dimensions:—2" diameter x 3 3/32".



BF 94DDL-2

COMMERCIAL MOTORS

70 FRAME MOTORS

1/15 to 1/50 HP—2 and 4 pole capacitor

Recommended for applications where small size and light weight are of primary importance. Supplied in sleeve and ball bearing, end mounted, with 5/16" shaft. Capacitor motors are reversible. Condensers supplied with motors, mounted separately.

90 FRAME MOTORS

1/10, 1/12 HP—4 & 6 pole capacitor

1/15, 1/20 HP—4 pole, shaded pole

The new 90 frame motors, for use where a larger motor is required, provide ample reserve power, exceptionally cool running, and extra rugged construction for original equipment and general industrial applications. These motors can be furnished with double shaft extensions, special end caps, or windings to suit a particular application. Let us have your requirements.

Salient Pole SYNCHRONOUS MOTORS

For use in applications where motor must synchronize at fixed angular positions with respect to the shaft.

PERFORMANCE (115 V.-60 Cy)

hp	Model No.	Speed RPM	Torque (oz./in.)	
			Start	Pull-In
1/50 (A)	LS71NCJ	1800	9	12
1/50 (A)	KS71NCJ	3600	4	6
1/50 (B)	KS73NCJ	3600	4	6

A—Ball B—Sleeve

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ELECTRICAL INSULATING TUBING & SLEEVING

We are insulation specialists — that's all we do. Naturally, we have a complete line of sleeving and tubing — Fibreglas, cotton, and extruded plastic. Listed below are most of our standard items, but if you have some special requirement, let us develop the material for your individual needs.

VARGLAS — SILICONE

Varglas-Silicone sleeving, tubing, lead wire, and tying cord are recommended for applications involving continuous operating temperatures up to 500° F combined with the following qualities:

1. Low temperature resistance in general. Good resistance to chafing and abrasion in all grades — in some grades down to —85° F.
2. Moisture resistance, including salt water, acids and mild alkalis.
3. Flame resistance — self-extinguishing.
4. Electrical properties — excellent electrical resistance and low power factors.

Varglas-Silicone insulation is available in seven standard colors at no extra charge.

Varglas-Silicone double wall sleeving and tubing are available for special applications.

Varglas-Silicone materials are available in the following grades:

1. **SILFLEX SLEEVING** — Light saturation of Silicone resin on Fibreglas braid.
2. **VARGLAS-SILICONE SATURATED SLEEVING** — Heavier saturation of Silicone resin on Fibreglas braid. Available in 3 standard grades.
3. **VARGLAS-SILICONE TUBING GRADES A AND B** — Recommended for applications requiring high dielectric strength. Grade A — average 7000 volts. Grade B — average 4000 volts.
4. **VARGLAS-SILICONE LEAD WIRE AND VARCHROME RESISTANCE WIRE** — Single or multiple walls of Fibreglas braid with Silicone impregnation over solid or stranded copper wire or resistance wire base.
5. **VARGLAS-SILICONE TYING CORD** — Silicone treatment on continuous filament Fibreglas tying cord. Available in sizes from 1/64" to 1/8" O.D.

VARGLAS SLEEVING

1. **VARGLAS SATURATED SLEEVING** — Fibreglas braid with impregnation of oleoresinous varnish or other electric insulating material in A.S.T.M. and NEMA Grades C-1, C-2, and C-3. These three grades can also be furnished with lacquer coating if desired.

Grade C-1 — Average dielectric test — 2500 volts; minimum dielectric test — 1500 volts.

Grade C-2 — Average dielectric test — 1500 volts; minimum dielectric test — 800 volts.

Grade C-3 — No dielectric guarantee.

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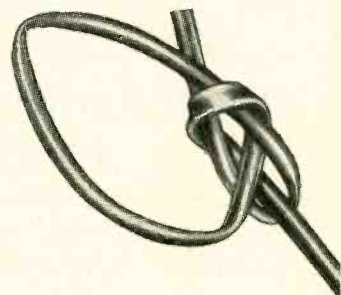
MEMBER OF NEMA

2. **VARGLAS NON-FRAY SLEEVING** — For applications where non-fraying and very high temperature endurance are of prime importance, this sleeving is ideal. It has been given a "normalizing" treatment to remove the organic impurities from the Fibreglas, and this process tends to hold the individual fibres together. Because of the absence of any bonding agent it will withstand temperatures as high as the Fibreglas itself — up to 1200° F. It is extremely flexible, yet retains its roundness, simplifying assembly operations. Used where dielectric qualities are not of prime importance.

3. **VARGLAS SLEEVING TYPE RW SYNTHETIC** — Fibreglas class but with a new type of coating of the oleoresinous varnish but with higher heat resistance than the conventional varnish — up to 400° F. Very flexible. Available in Grades C-1, C-2 and C-3 sleeving and Grades A and B tubing.

VARGLAS TUBING

1. **VARGLAS TUBING TYPE VS SYNTHETIC** — Grade A or Grade B. It offers you maximum flexibility — even where dielectric requirements are 7000 volts and more — and yet it will withstand short time temperatures as high as 425° and 450° F. Applied on a braid made from continuous filament Fibreglas yarns, this synthetic coating prevents fraying and increases dielectric qualities, while the finished product is as flexible as extruded plastic tubing. Will not support combustion. Available in seven colors and in long lengths.



2. **VARGLAS VARNISHED AND LACQUERED TUBING** — Flexible, continuous coatings of flame-resistant varnish or lacquer applied over Fibreglas braid in 8 or more carefully controlled operations. Varnished tubings have thinner walls and greater heat resistance than the lacquered tubings, but are slightly less flexible. All standard grades.

Grade B-1 — Oleoresinous varnish coating. Average short time dielectric test of not less than 4000 volts and no one of ten puncturing voltages less than 2500 volts.

Grade B-2 — Lacquer coating. Same dielectric qualities as Grade B-1.

Grade A-1 — Oleoresinous varnish coating. Average short time dielectric test of not less than 7000 volts and no one of ten puncturing voltages less than 5000 volts.

Grade A-2 — Lacquer coating. Same dielectric qualities as Grade A-1.

VARGLAS PERMAFIL SLEEVING and TUBING — Fibreglas braid coated with General Electric's Permafil resin. Has superior qualities of flexibility, heat endurance, solvent resistance in addition to meeting all regular tests for oleoresinous tubings.

VARFLO SLEEVING and TUBING — Vinyl-coated Fibreglas in full range of sizes, colors and grades. Extremely flexible with very good electrical heat aging qualities. Competitively priced.

SYNTHOLVAR EXTRUDED PLASTIC TUBING

Made from a thermoplastic synthetic resin compound, this tubing is particularly suitable for applications where low temperature flexibility or resistance to fungus growth is very important. Complete data sheets available on request.

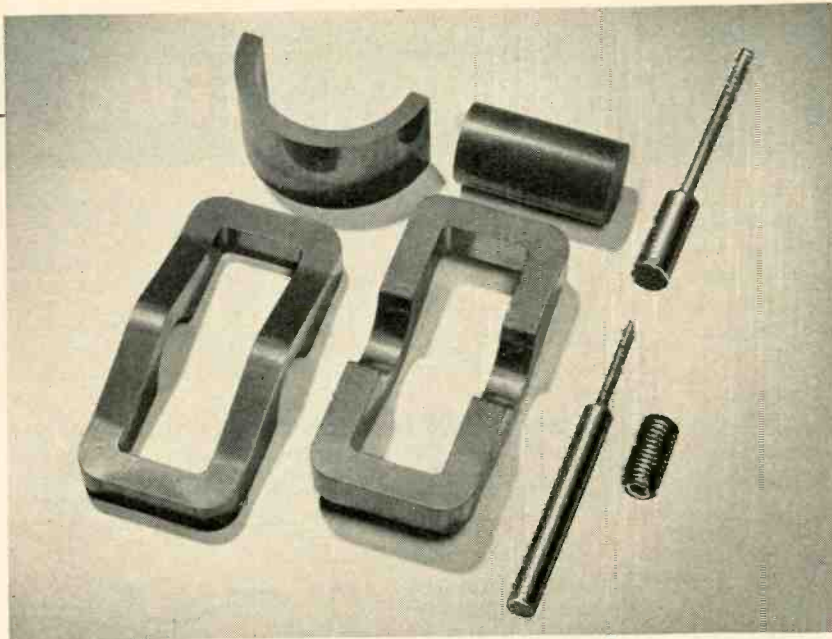
VARFLEX COTTON SATURATED SLEEVING

This sleeving is braided from long staple cotton yarns and is available in Grades C-1, C-2 and C-3. See description of the three grades under Varglas Saturated Sleeving.

VARFLEX COTTON TUBING

Varflex Cotton Tubing is available in the same grades as Varglas Varnished and Lacquered Tubing.

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High Sensitivity . . . Logarithmic AC VOLTMETER 40 MICROVOLTS TO 500 VOLTS

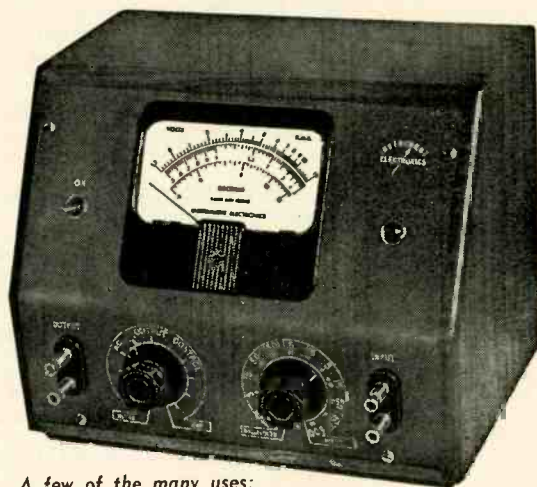
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SELF-CONTAINED
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An extremely sensitive amplifier type instrument that serves simultaneously as a voltmeter and high gain amplifier.

- Accuracy $\pm 2\%$ from 15 cycles to 30 kc.
- Input impedance 1 meg-ohm plus 15 uuf. shunt capacity.
- Amplifier Gain 40000

Also MODEL 45
WIDE BAND
VOLTMETER
.0005 to 500 Volts!
5 Cycles 1600 kc.



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- Light flux measurements in conjunction with photo cells.

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MINIATURE BLOWERS AND FANS



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SPECIALLY ADAPTED TO VARIOUS TUBES



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TO STANDARD TRANSMITTING TUBES

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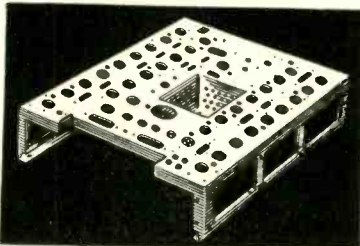
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2. Rigid construction—Round corners.
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4. Cases or covers available separately.
5. Mass Production means high quality at low competitive prices.
6. Lojack covers and cases can be furnished with holes pierced, reinforcing brackets, channels or strips, tapped holes, studs, weld nuts, tapped inserts, etc., to better meet your specifications.
7. Height of case variable.

Core	Length	Width	Height
EE26-27	1-1/4"	1-1/2"	2"
EI21	1-1/2"	1-3/4"	2-5/16"
EI-625	1-3/4"	2-1/8"	2-9/16"
EI-75	2-1/8"	2-7/16"	2-15/16"
EI-11	2-7/16"	2-15/16"	3-3/8"
EI-3A	2-15/16"	3-1/8"	3-11/16"
EI-12	2-7/8"	3-3/16"	3-3/4"
EI-112	3-3/16"	3-1/2"	4-1/4"
EI-195	3-1/2"	3-7/8"	4-5/8"
EI-137	3-7/8"	4-1/4"	5-1/16"
EI-13	4-1/4"	4-3/4"	5-1/2"
EI-36	4-3/4"	5-1/4"	6-3/4"
EI-175	4-7/8"	5-1/2"	6-5/16"
EI-19	5-1/4"	6-1/4"	8-1/16"

Let us quote on your short run precision sheet metal requirements.

Our model shop offers:—

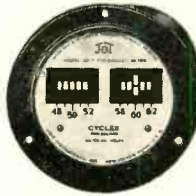
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Panel Mounting or Portable, for use when constant or known frequency is important to efficient operation of equipment.



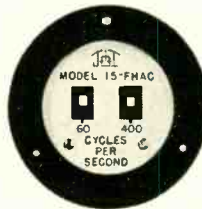
- **Permanently Accurate** within $\pm 0.3\%$ or better, depending on the model. This accuracy is not affected by poor wave form, external magnetic disturbances, or voltage fluctuations.
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Ask for Bulletins VF-43, VF-43 1A, 1B, and 1C and General Catalog 549

NEW DEVELOPMENTS

1 1/2" and 3 1/2"

SEALED Frequency Meters



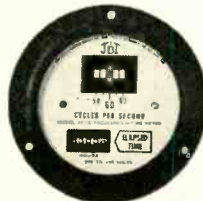
Model 15-FHAC (illustrated half actual size). 60 and 400 cycles, 2 reeds, 8-10 volts, for cathode follower circuit. Widely used on audio oscillators to standardize output. Meets intent JAN-1-6 & amendments on sealed meters. Barrel, 1 1/2" diameter; detachable flange, 2.094" diameter; solder terminals.

Model 15-FH (not illustrated)—same case, sealed, 5 reeds, 58-62 cycles, 100-130 volts. Variations such as 6 reeds, 25 or 400 cycle ranges and higher voltages available on special order.

3 1/2" Sealed Type (not illustrated)—other 5, 7, 9, 10 or 11 reed meters using metal cases with 3 1/2" flange and solder terminals now are made on special order for Government applications and particularly adverse operating conditions. Ask for Print SK-24.

ALSO NEW

Combination Reed-Type Frequency-Elapsed Time Meters



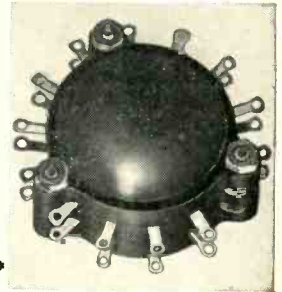
Model 31-FE (illustrated) pioneered by J-B-T, saves panel space and cost. Useful on electrical and electronic equipment, also power units, where both frequency and periodic maintenance are important. 3 1/4" case, 4-9/32" overall depth standard. 3 1/2" case, known as 31-FEX-) supplied on custom orders. 5 reeds, 60 cycle range standard; 7, 9, 11 reeds or 50 cycle range on special order. For other details, see Elapsed Time Meters in next column.



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Model MS-14-2

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*Ask for Bulletin F-55 and New Bulletin on Single Deck Lever Action Switches

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For Maintenance, Tube Life Data, and Operating Time Records—on Motor Generators, Transmitters, Receivers, Rectifiers, Test Set-ups, etc.



J-B-T Model 31-EX (illustrated) also known as running-time or total time meter, registers in 1/10 hours to 9,999.9 hours, then automatically resets. Normally stocked for 60 cycles, 110-130 volts. 3 1/2" standard meter mounting. Variations such as 50 cycles, 230 volts, and 3" rectangular case available on special order.

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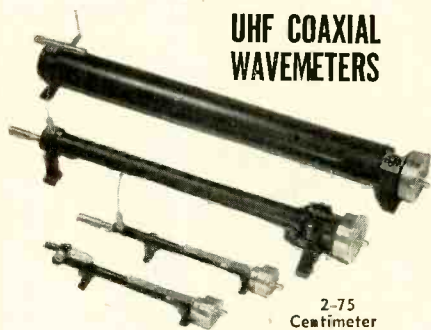
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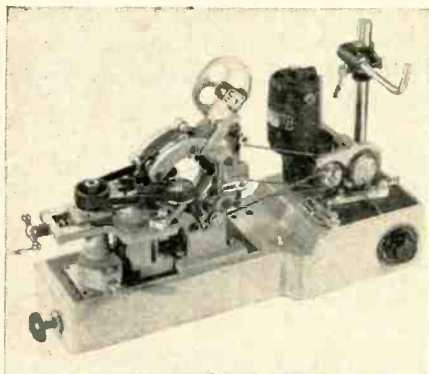
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MODEL 501 4 to 20 Centimeters
MODEL 402A 2 to 10 Centimeters
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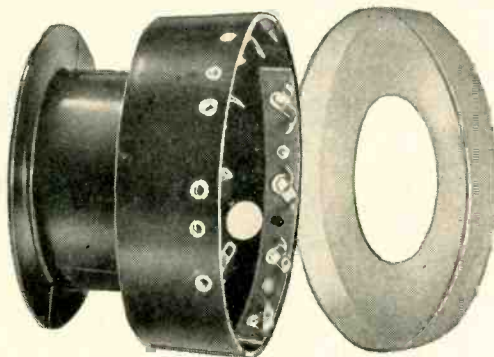
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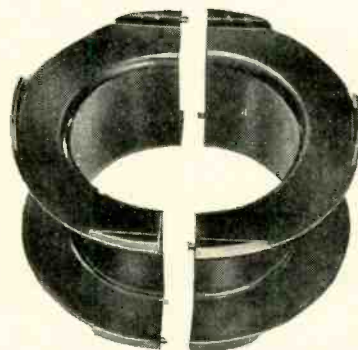
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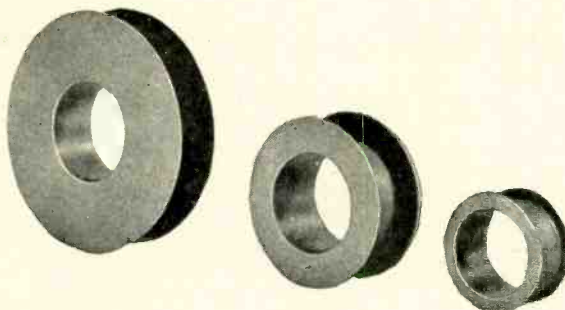


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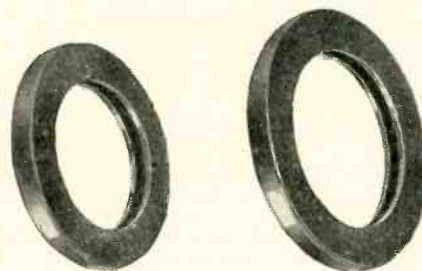
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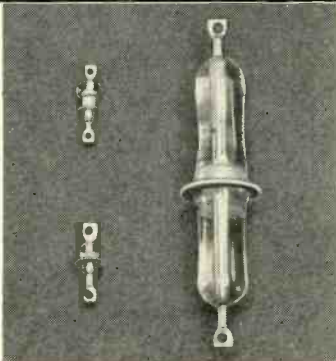
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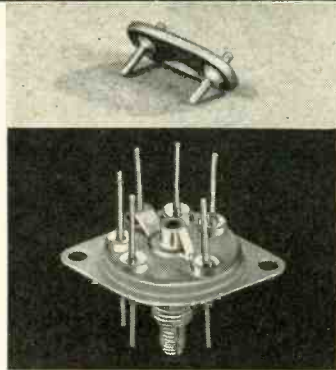
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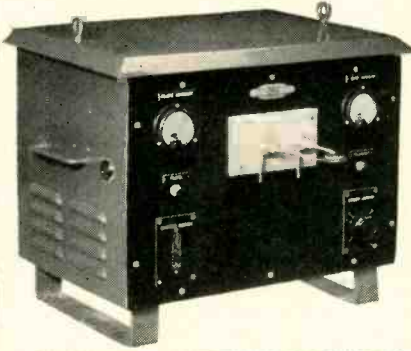
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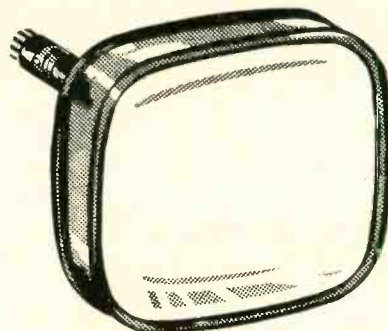


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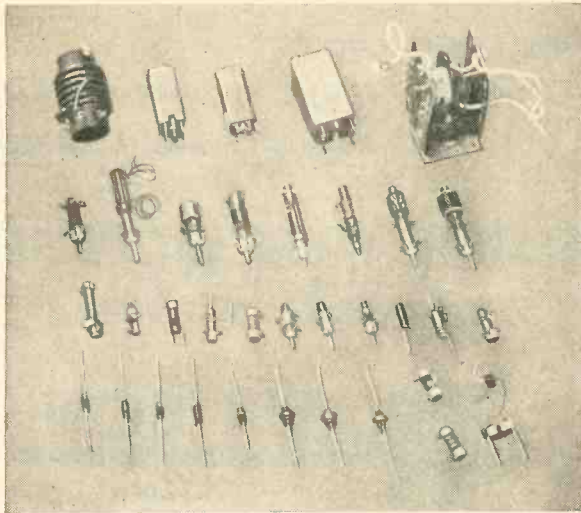
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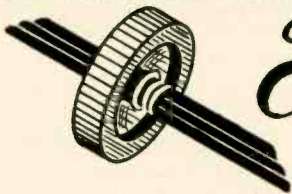
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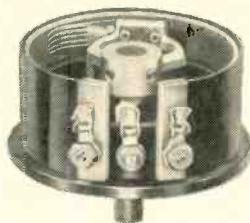
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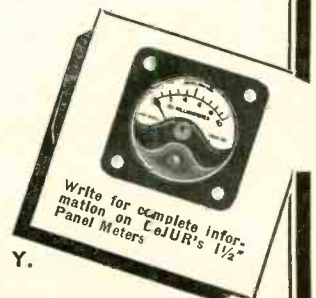
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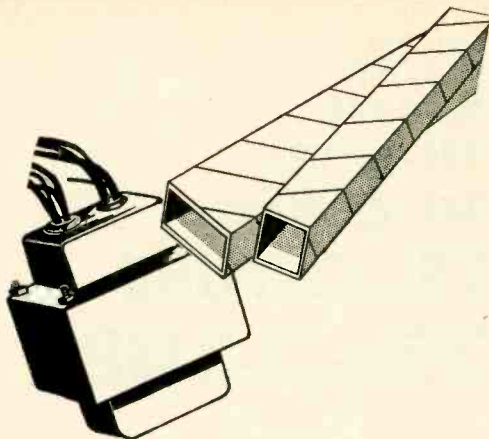
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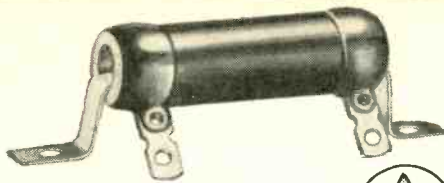
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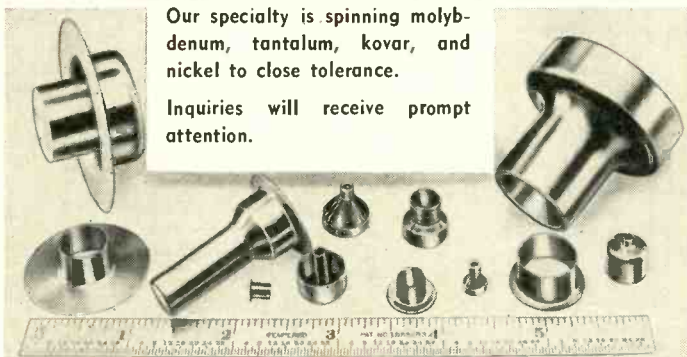
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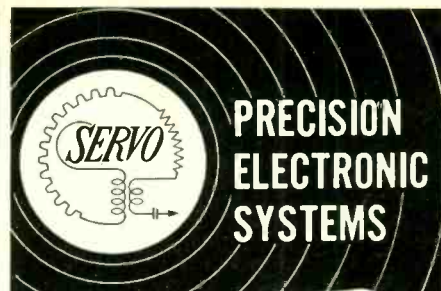
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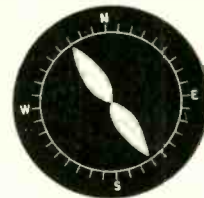
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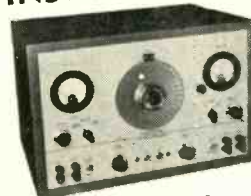


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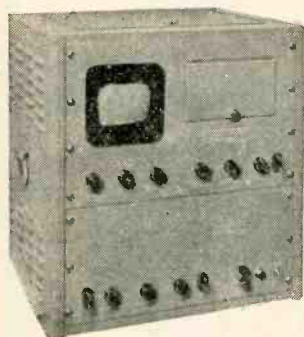
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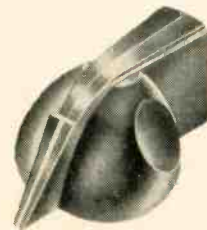
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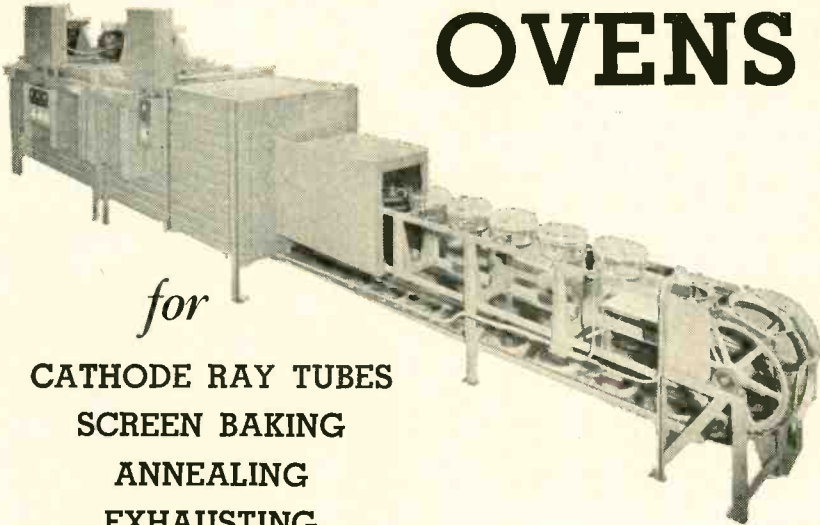
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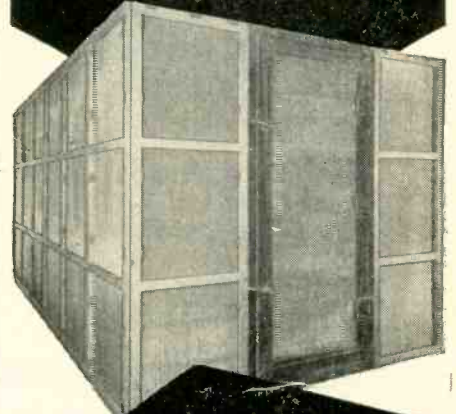
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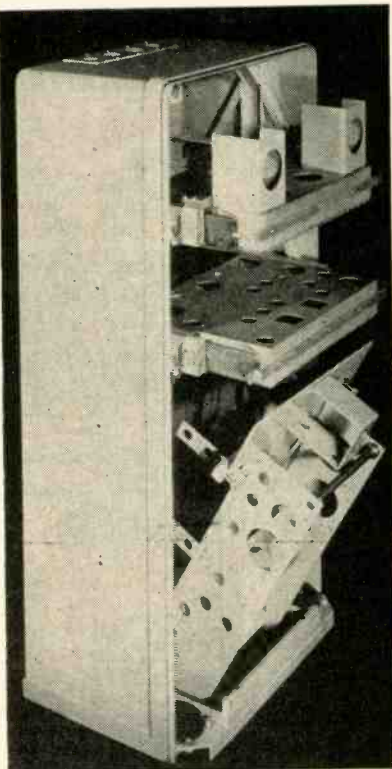
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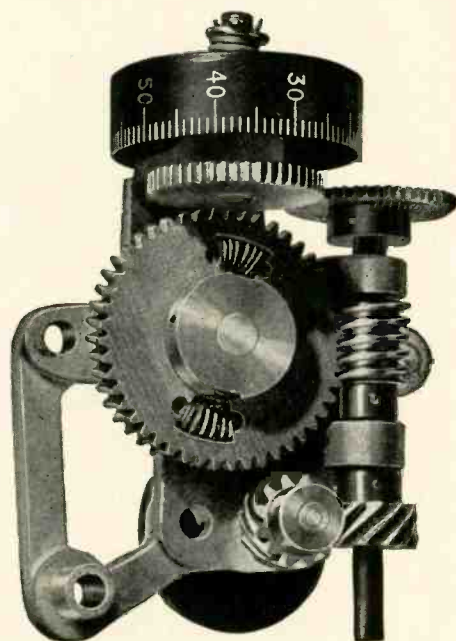
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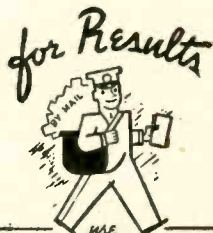
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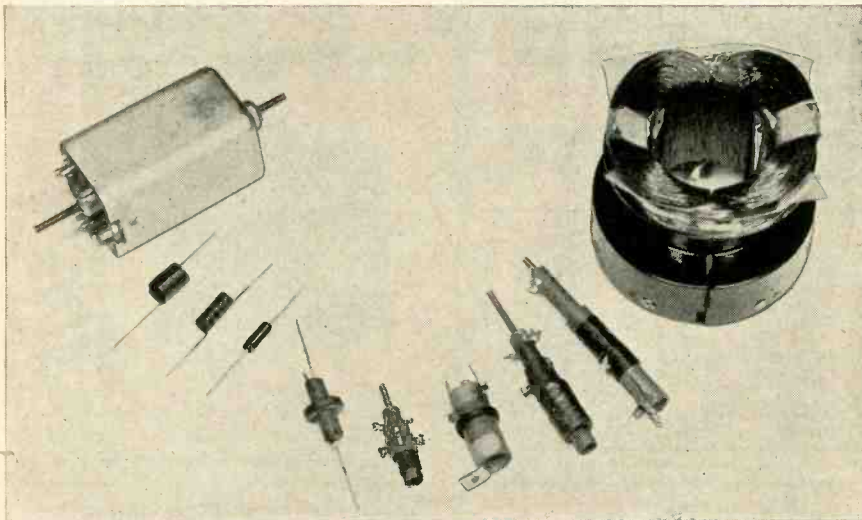
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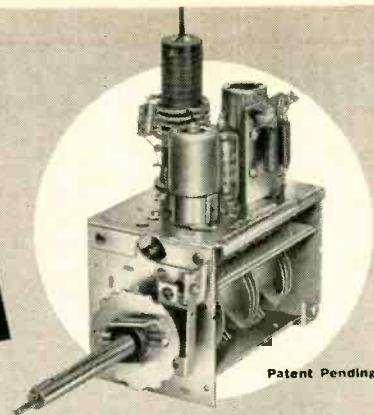
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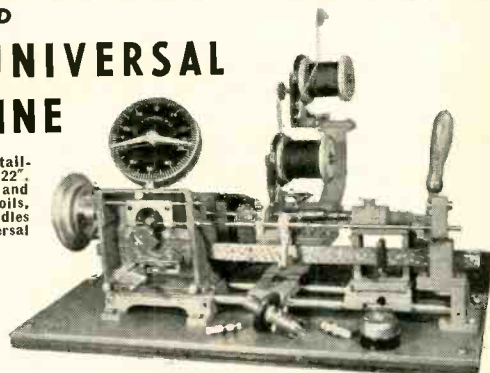
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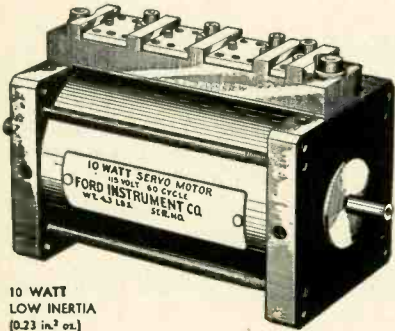
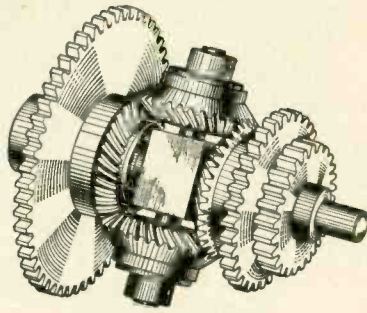


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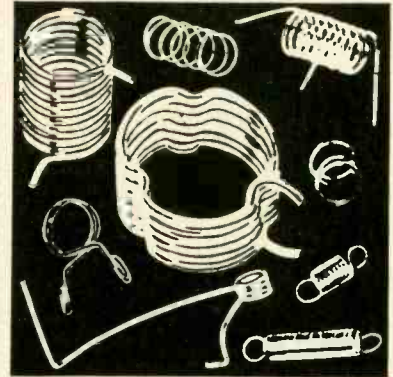
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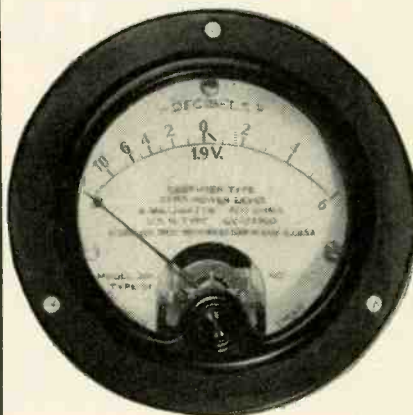
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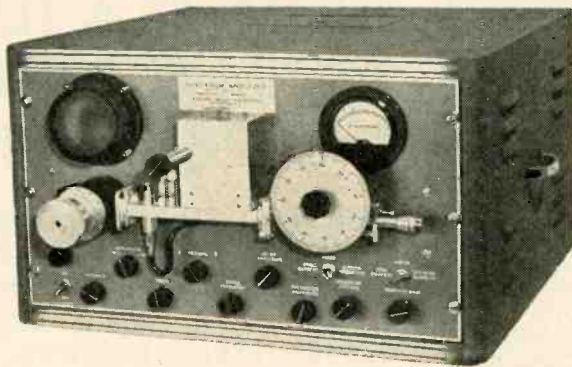


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For use with Teletype Printer, to check line and bias currents. Zero center 3" Meter reads ± 125 Volts DC and ± 100 Ma. D.C. Built up in metal case 7 1/2" H. x 4 1/4" D. Complete with printer and line cords. Diagram in case cover. New \$4.95

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2 color coded tinsel conductors enclosed in heavy rubber jacket. Extremely flexible. Leads terminated with spade and "O" Lugs. 6 1/2" long. New. 100 for \$2.25. 500 for \$8.95.

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Glazed white. 3/32" Wall. 1/2" O.D. x 1 1/8" L. (Approx.) New. Packed 100 per box. 49¢ Per/M \$3.50

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Solid brass with slotted groove and insulation piercing needle. Military telephone type TM-175. Stud threaded for 12-24 Nut. New—per/100 \$2.45

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Weather-proof; ideal for insulating TV or FM Lead-ins from Skylights and obstructions. I.D. 3/4"; 1/2"; 5/8". (Specify Size) 50 Ft. any size \$1.45

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2 ckt. 8 poles each. Double throw. 2 pos. Rated at 5 Amps. 125 V.D.C. 10 Amps. 125 V.A.C. Brass terminals with screws. Bakelite construction with metal ends. Complete with hdwe. and knob. Overall size: 2 1/2" D. x 5 1/2" L. New. \$1.39

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Eclipse Carbon pile Type 1385. Style "A". Set at 115 V. Aircraft type. New.....\$1.29

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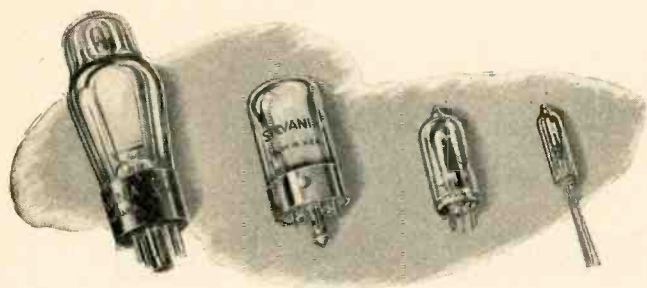
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SYLVANIA RADIO AND TELEVISION TUBES



RECEIVING TUBES

Even the small parts that go into the manufacture of Sylvania radio tubes—from the famous Lock-In to the tiny subminiatures—are made by Sylvania in its own plants. Every step of the way is quality controlled. That's just one good reason why Sylvania tubes are so well known for quality and performance.

Sylvania research has brought about many important advances in radio receiving tubes, making it possible to offer you a *complete line* that is unsurpassed in quality.



TRANSMITTING TUBES

To augment its comprehensive line of top quality receiving tubes, Sylvania has marketed a line of more than 20 high quality transmitting tubes.

Typical of this comprehensive line is Sylvania's new type 5933/807W, a smaller, vibration and shock-tested version of one of the most popular amateur operators' tubes. Described as "the answer to the prayers of the ham", the 5933/807W has shorter internal leads and excellent shielding which sharply reduce parasitic oscillations and give it remarkable stability. Electrical operating ratings are identical to those of the conventional type 807.



TV PICTURE TUBES

Sylvania's complete line of high quality television picture tubes includes 17 round and rectangular types, of both glass and glass-metal construction in all popular sizes. Face plates of both clear and neutral-gray glass.

Sylvania Cathode Ray Tubes for every purpose include 20 electromagnetic types from 5-inch to 19-inch; 21 electrostatic types in screen sizes from 2-inch to 7-inch. Screen persistences from long and medium to short are available with blue, green and white fluorescence.

Write for detailed information and latest data sheets on the complete line of Sylvania Cathode Ray Tubes.

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SYLVANIA TEST EQUIPMENT



Television Oscilloscope. An Exceptionally High-Gain, Wide-Band Oscilloscope Designed for Television. Accurately displays any TV pulse or wave-shape on a large, eye-saving 7" screen. Sensitivity: 0.01 v./in. Vert. response useful to 4.0 mc. Hard-tube sweeps to 50 kc; phasing control; pos. or neg. sync. control; many other outstanding features. Recommended for servicemen; laboratories; advanced schools and industry. Price: \$229.50.



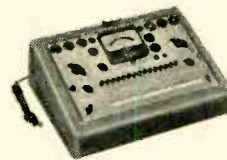
Type 400



Type 132

General Purpose Oscilloscope. A Versatile 7" 'Scope with Many Features Found in Type 400 above, priced as low as oscilloscopes with smaller screens. Sensitivity: 0.21 v./in.; freq. response: exceeds 10 cps. to 70 kc. Widely used by servicemen, schools and industry for AM-FM-TV testing. Price: \$144.50.

Tube Tester Type 220. Made by a Tube Manufacturer for Tube Users, these instruments test for ALL usual faults — not just one particular characteristic. New and exclusive ohmmeter-type shorts/leakage test indicates "GOOD" or "REPLACE" directly on the illuminated meter. Gas and special heater-cathode leakage tests made in single operation. Single composite dynamic test for emission, transconductance and relative tube life. Panel-mounted roller-chart; convenient switches; provisions for future tubes. Portable Type 220 has durable metal case and handle; removable cover. Size: 6" x 11 1/4" x 17". Price: \$99.50.



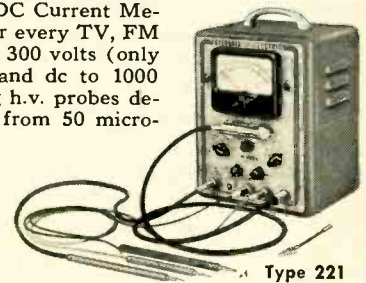
Tube Tester Type 219. The counter Type 219 is electrically equivalent to the portable type. Attractively housed in a streamlined wood and metal cabinet. Adaptable to any surroundings. Occupies small counter space. Size: 5 3/4" x 13" x 18 3/4". Price: \$99.50.

TV Sweep Signal Generator. An ALL ELECTRONIC Sweep Generator for TV and FM. Fundamental center frequencies: 2-25, 20-64, 60-120, and 140-230 mc. Two adjustable sweep widths: 0-600 kc./15 mc.; excellent sweep linearity; output 0.1 v. Edge-lighted dial; simplified controls; small size: 11 1/2" x 8 1/2" x 7". May be used with any 'scope and marker including those shown above and below. Price: \$139.50.



Type 500

Polymer-TV Vacuum-Tube Voltmeter. A Sensitive DC, AC and RF Vacuum-Tube Voltmeter, Ohmmeter and DC Current Meter. The basic instrument for every TV, FM and AM shop. Ranges: rf to 300 volts (only 3 μf shunt capacity); ac and dc to 1000 volts (10 or 30 kv dc using h.v. probes described below); dc current from 50 microamperes to 10 amperes; and resistance from 0.5 to one billion ohms. Frequency range to 300 megacycles. High input impedance on all voltage ranges. Size identical to TV generator at left. Price: \$99.50.



Type 221



Type 216

FM-AM Signal Generator. Useful as a TV Marker. A versatile AM-FM generator, doubly useful for peaking alignment of TV and as a TV marker. Calibrated to 0.05%. Fundamentals 80 kc to 120 mc; harmonics to 240 mc. Modulation: 0-100% AM; 0-30/150/700 kc FM. 1.0 volt max. output. Low leakage. Built-in circuit for external crystal. Price \$139.50.



TV High-Voltage Probes. New Quality Probes that Permit Measuring High TV Anode Voltages by increasing the dc range of Polymeters to 30,000 or 10,000 volts. Special conversion cartridge permits using 30 kv probes with ANY 1,000 volt scale

20,000 ohm/volt meter. Select correct probe from list below:

Audio Oscillator. An Accurate Sine-Wave Generator for Better Equipped Shops and Sound Specialists. Maximum output: 22.5 volts, 20-20,000 cps, flat within 2 db. Price: \$129.50.



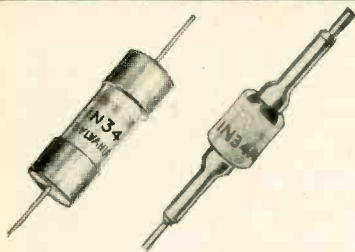
Type 145

Type	Range	Use with	Price
225	30 kv	Polymer, Type 221	\$12.50
224	30 kv	Earlier Polymeters, Types 134 and 134Z	12.50
226	30 kv	Conversion cartridge for use with above Type 225 or 224 to convert ANY 20,000 ohm/volt meter with a 1000-volt scale to a kilovoltmeter	2.00
223	10 kv	Polymer, Type 221 (shown above)	9.95
222	10 kv	Earlier Polymeters, Types 134 and 134Z	9.95

SYLVANIA ELECTRIC

1740 Broadway, New York 19, N. Y.

CRYSTAL DIODES DUO-DIODES VARISTORS



Sylvania Germanium Diodes are long-life, lightweight, heaterless components that have found hundreds of applications in clippers, limiters, discriminators and other circuits calling for low power rectification at frequencies up to several hundred megacycles. They have low shunt capacity and no contact potential. Convenient pigtail leads eliminate the need for mounting hardware.

Sylvania Duo-Diodes consist of two matched diodes mounted in a single unit.

Sylvania Varistors, types 1N40, 1N41 and 1N42, consist of 4 specially selected and matched germanium diodes whose resistances are balanced within $\pm 2.5\%$ in the forward direction at 1.5 volts. Sylvania Varistor Type 1N71 consists of 4 matched low impedance diodes, each of which, with 1.0 volt impressed in the forward direction, will pass a current within 1.0 ma. of the average current of the four.

Ratings shown are for each diode.

Types 1N40, 1N42 and 1N71 are plug-in type; 1N41 is lug type.



Sylvania Silicon Diodes 1N21B, 1N21C, 1N23B, 1N25, 1N26 and 1N53 are used chiefly as first detectors in radar and other microwave superheterodyne receivers.

Type 1N22 is designed for use in microwave test probes, power indicators and other instruments.

Types 1N31 and 1N32 are used as high level video detectors.

GERMANIUM DIODES AND DUO-DIODES

Type	Cont. Reverse Working Voltage	Peak Back Voltage*	Fwd. Curr. at +1v (ma min.)	Av. Anode Current (ma max.)	Recurrent Peak Anode Curr. (ma max.)	Reverse Current (μ a max.)
1N34	60v max.	75v min.	5.0	40	150	50 @ -10v
1N34A	60v max.	75v min.	5.0	40	150	50 @ -10v 800 @ -50v
1N35**	50v max.	75v min.	7.5	22.5	60	10 @ -10v
1N38	100v max.	120v min.	3.0	40	150	6 @ -3v 625 @ -100v 200 @ -100v 800 @ -200v
1N39	200v max.	225v min.	3.0	40	150	10 @ -10v 300 @ -100v 800 @ -150v
1N54	35v max.	75v min.	5.0	40	150	10 @ -10v
1N55	150v max.	170v min.	3.0	40	150	300 @ -100v 800 @ -150v
1N56	40v max.	50v min.	15.0	50	200	300 @ -30v
1N57	80v max.	90v min.	4.0	40	150	500 @ -75v
1N58	100v max.	115v min.	4.0	40	150	800 @ -100v
1N58A	100v max.	115v min.	4.0	40	150	800 @ -100v
1N60	25v max.	30v min.	†	40	150	†

*For zero dynamic resistance.

**Duo-diode consisting of two units matched in the forward direction at +1v so that the current flowing through the higher resistance unit is within 10% of that in the lower resistance unit. Ratings shown for each diode.

†Units are tested in a circuit employing an input of 1.8 volts rms. at 40mc, 70% modulated at 400 cycles. Demodulated output across a 4700 ohm resistor by a 5 μ f. capacitor is a minimum of 1.2 volts peak-to-peak.

GERMANIUM VARISTORS

Type	Cont. Reverse Working Voltage	Peak Back Voltage*	Fwd. Curr. at +1.5v (ma min.)	Av. Anode Current (ma max.)	Recurrent Peak Anode Curr. (ma max.)	Reverse Current (μ a max.)
1N40	25v max.	75v min.	12.75	22.5	60	50 @ -10v
1N41	25v max.	75v min.	12.75	22.5	60	50 @ -10v
1N42	50v max.	120v min.	12.75	22.5	60	6 @ -3v 625 @ -100v
1N71	25v max.	75v min.	66 (@ +1.0v.)	50	200	300 @ -30v

*For zero dynamic resistance.

SILICON DIODES

Type	Design Freq. (mc)	Max. Conv. Loss (db)	Max Output Noise Ratio	Burnout Test	I. F. Imp. (ohms)
1N21B	3,000	6.5	2.0	Bs=2.0 erg	200-800
1N21C	3,000	5.5	2.0	Bs=2.0 erg	200-800
1N22	9,000	—	—	Bs=0.3 erg	200-800
1N23B	10,000	6.5	2.7	Bs=0.3 erg	150-600
1N25	1,000	8.0	2.5	Bp=6.5 watts	100-400
1N26	25,000	8.5	2.5	Bs=0.1 erg	300-600
1N29		Obsolete—use 1N21B			
1N53	35,000	8.5	2.5	Bs=0.15 erg	400-800

Type	Min. Fig. of Merit	Video Imp. (ohms)	Burnout Test	Carrier Freq. (mc)	Video Freq.
1N27		Obsolete—use 1N32			
1N30		Obsolete—use 1N31			
1N31	55	6,000-23,000	Bp=0.02 watt	10,000	500 cps—5 mc
1N32	100	5,000-20,000	Bp=0.36 watt	3,000	500 cps—5 mc

Bs=total energy in simulated spike of pulse from TR box in radar service.

Bp=peak power pulse under pulsed conditions.

SYLVANIA ELECTRIC

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