

1967

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The Broadcast Industry

BUYERS GUIDE

A comprehensive directory of products and services for the broadcast-communications industry . . . containing: complete alphabetical product and service listing, manufacturer listing with products and services, and addresses of manufacturers and their representatives. **\$1.50**

Prepared by the staff of
Broadcast Engineering®

World Radio History

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SETTING NEW STANDARDS IN SOUND



Prepared by the staff of
Broadcast Engineering®

the broadcast industry

BUYERS GUIDE

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publisher
Howard W. Sams

general manager
Donald W. Bradley

editor
William E. Burke

managing editor
James M. Moore

associate editor
Harold E. Hale

research librarian
Bonny Howland

production
Esther M. Rainey, *Manager*

circulation
Pat Osborne, *Manager*

advertising sales offices
Hugh Wallace, *Sales Manager*

central and midwestern
Roy Henry
Howard W. Sams & Co., Inc.
4300 West 62nd St.
Indianapolis, Ind. 46206
291-3100

eastern
Gregory C. Masefield
Howard W. Sams & Co., Inc.
3 West 57th St.
New York 19, New York
MU 8-6350

southwestern
C. H. (Jake) Stockwell
C. H. Stockwell Co., 4916 West 64th St.
Mission, Kansas, RA 2-4417

western
LOS ANGELES OFFICE
G. R. (Jerry) Holtz
The Maurice A. Kimball Co., Inc.
2008 West Carson St., Suites 203-204
Torrance, California, 90501
320-2204

SAN FRANCISCO OFFICE
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580 Market St., Room 400
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EX 2-3365

foreign
LONDON W.C. 2, ENGLAND
John Ashcraft, Leicester Square
Whitehall 0525

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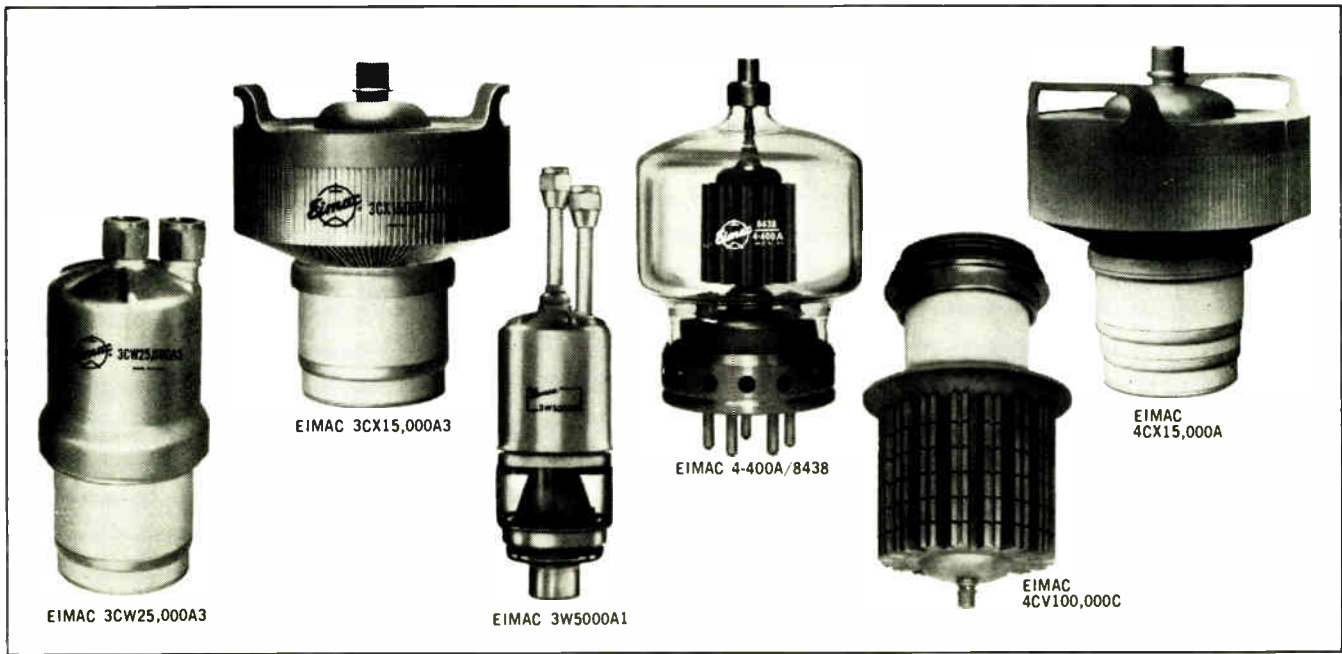
EIMAC POWER GRID TUBES and Accessories

(24 hour factory delivery on most distributor orders)

At EIMAC you'll find the most complete line of power grid tubes available today: triodes, tetrodes, pulse modulators, diodes, zero-bias tubes, ceramic tubes, glass tubes, air cooled, water cooled and vapor cooled tubes. And there are more to come! Continuing EIMAC projects are ever increasing the scope of power grid tube capabilities.

Tube Type	User Price	Socket Type	Socket Price	Chimney Type	Chimney Price
2-01C	\$ 18.00	None	\$	None	\$
2C39A	20.75	Jettron No. 76-020	....	None	....
3CPN10A5/7815	30.75	Jettron No. 76-020	....	None	....
3CPX100A5/7815R	30.75	Jettron No. 76-020	....	None	....
3CV30,000A1	710.00	SK-1300	78.50	None	....
3CV30,000A3	590.00	SK-1300	78.50	None	....
3CW5000A1	280.00	(See Note 1)	....	None	....
3CW5000A3	245.00	(See Note 1)	....	None	....
3CW5000F1	260.00	None	....	None	....
3CW5000F3	250.00	None	....	None	....
3CW5000H3	240.00	None	....	None	....
3CW10,000H3	356.00	None	....	None	....
3CW20,000A1	560.00	SK-1300	78.50	None	....
3CW20,000A3	455.00	SK-1300	78.50	None	....
3CW20,000A7	710.00	SK-1300	78.50	None	....
3CW20,000H3	455.00	None	....	None	....
3CW25,000A3	480.00	SK-1300	78.50	None	....
3CW30,000H3	510.00	None	....	None	....
3CW40,000H3	620.00	None	....	None	....
3CW100,000H3	2,320.00	None	....	None	....
3CX100A5/7289	26.50	Jettron No. 76-020	....	None	....
3CX100F5/8250	34.00	Jettron No. 76-020	....	None	....
3CX1000A7/8283	250.00	SK-860	38.00	SK-816	7.00
		SK-870	40.00	SK-816	7.00
3CX2500A3	200.00	(See Note 1)	....	None	....
3CX2500F3	205.00	None	....	None	....
3CX2500H3	240.00	None	....	None	....
3CX3000A1	210.00	(See Note 1)	....	None	....
3CX3000A7	255.00	(See Note 1)	....	None	....
3CX3000F1	220.00	None	....	None	....
3CX3000F7	260.00	None	....	None	....
3CX5000A3	356.00	SK-1300	78.50	None	....
3CX5000H3	356.00	None	....	None	....
3CX10,000A1/8158	490.00	SK-1300	78.50	SK-1306	6.50
3CX10,000A3/8159	490.00	SK-1300	78.50	SK-1306	6.50
3CX10,000A7/8160	530.00	SK-1300	78.50	SK-1306	6.50
3CX10,000H3	455.00	None	....	None	....
3CX15,000A3	510.00	SK-1300	78.50	SK-1306	6.50
3CX15,000H3	510.00	None	....	None	....
3CX20,000A3	580.00	SK-1300	78.50	None	....
3CX20,000H3	580.00	None	....	None	....
3W5000A1/8240	280.00	(See Note 1)	....	None	....
3W5000A3/8242	245.00	(See Note 1)	....	None	....
3W5000F1/8241	260.00	None	....	None	....
3W5000F3/8243	250.00	None	....	None	....
3X3000A1/8238	210.00	(See Note 1)	....	None	....
3X3000A7	255.00	(See Note 1)	....	None	....
3X3000F1/8239	220.00	None	....	None	....
3X3000F7/8162	260.00	None	....	None	....
3-400Z/8163	34.00	SK-410	6.50	SK-416	6.50
3-1000Z/8164	78.00	SK-510	6.50	SK-516	12.00
4-65A/8165	27.00	E. F. Johnson No. 122-101	....	None	....
4-125A	36.00	SK-400	17.50	SK-406	6.50
		SK-410	6.50	SK-406	6.50
4-250A	46.50	SK-400	17.50	SK-406	6.50
		SK-410	6.50	SK-406	6.50
4-400A/8438	48.00	SK-400	17.50	SK-406	6.50
		SK-410	6.50	SK-406	6.50
4-1000A/8166	131.50	SK-500	24.30	SK-506	12.00
		SK-510	6.50	SK-506	12.00
		SK-740	10.70	None	....
4CPX250K	68.50	(See Note 2)	....	None	....
4CS250H	69.50	None	....	None	....
4CV8000A	470.00	SK-1490	88.50	None	....
4CV20,000A	590.00	SK-310	114.00	None	....
4CV35,000A	825.00	SK-310	114.00	None	....
4CV100,000C/8351	2,350.00	SK-1510	250.00	None	....
4CV8000A	331.00	None	....	None	....
4CW2000A/8244	220.00	SK-800B	54.00	SK-806	8.50
		SK-810B	56.00	SK-806	8.50
		SK-890B	65.00	SK-806	8.50
		SK-300	103.00	SK-306	6.50
4CW10,000A	610.00	SK-300A	103.00	SK-316	9.65
4CW25,000A	825.00	SK-300	103.00	SK-306	6.50
		SK-300A	103.00	SK-316	9.65
4CW50,000C/8350	2,100.00	SK-1500	220.00	None	....
4CW100,000D	2,100.00	SK-1500	220.00	None	....
		SK-1510	250.00	None	....
4CX250B/7203	35.60	*See SK-600 Series Socket Listing	....	None	....
4CX250F/7204	38.00	*See SK-600 Series Socket Listing	....	None	....
4CX250K/8245	64.00	None	....	None	....
4CX250R/7580W	44.50	*See SK-600 Series Socket Listing	....	None	....
4CX300A/8167	54.00	*See 4CX125C Socket Listing	....	None	....
4CX300Y	105.00	*See 4CX125C Socket Listing	....	None	....
4CX350A/8321	48.50	*See SK-600 Series Socket Listing	....	None	....
4CX350F/8322	51.50	*See SK-600 Series Socket Listing	....	None	....
4CX600A	319.00	None	....	None	....
4CX1000A/8168	181.00	SK-800B	54.00	SK-806	8.50
		SK-810B	56.00	SK-806	8.50
		SK-890B	65.00	SK-806	8.50
		SK-820	140.00	SK-806	8.50
		SK-830	178.00	SK-806	8.50
4CX1000K/8352	193.00	None	....	None	....

Note (1): None, but the following collsets are available from EIMAC: 149575 (innerline filament collet); 149576 (outer line filament collet)
 Note (2): None, but the following collsets are available from EIMAC: 008290 (heater pin connection); 008291 (cathode collet); 008292 (control grid collet); 008294 (anode collet); 882931 (screen grid collet)




Tube Type	User Price	Socket Type	Socket Price	Chimney Type	Chimney Price	Tube Type	User Price	Socket Type	Socket Price	Chimney Type	Chimney Price
4CX1500B/8660	205.00	*See 4CX100A Series Socket Listing				8166/4-1000A	131.50	SK-500	24.30	SK-506	12.00
4CX3000A/8169	420.00	SK-1400A	107.00	SK-1406	6.50			SK-510	6.50	SK-506	12.00
4CX5000A/8170	495.00	SK-1470A	107.00	SK-1406	6.50	8167/4CX300A	54.00	*See 4CX125C Series Socket Listing			
4CX5000R/8170W	705.00	SK-300	103.00	SK-306	6.50	8168/4CX1000A	181.00	SK-800B	54.00	SK-806	8.50
4CX10,000D/8171	550.00	SK-300A	103.00	SK-316	9.65			SK-810B	56.00	SK-806	8.50
4CX15,000A/8281	695.00	SK-300	103.00	SK-306	6.50	8169/4CX3000A	420.00	SK-890B	65.00	SK-806	8.50
		SK-300A	103.00	SK-316	9.65	8170W/4CX5000R	705.00	SK-1400A	107.00	SK-1406	6.50
		SK-300	103.00	SK-306	6.50			SK-1470A	107.00	SK-1406	6.50
		SK-300A	103.00	SK-316	9.65	8171/4CX10,000D	550.00	SK-300	103.00	SK-306	6.50
		SK-1306	6.50	SK-1306	6.50					SK-316	9.65
4CX35,000C/8349	1,765.00	SK-1500	220.00	None	....	8172/4X150G	58.00	None	....	None	....
4E27A/5-125B	45.00	SK-1510	250.00	None	....	8173/4W20,000A	2,030.00	None	....	None	....
		E. F. Johnson	....	None	....	823B/3X3000A1	210.00	None	....	None	....
		No. 122-237	....	None	....	8239/3X3000F1	220.00	None	....	None	....
4W20,000A/8173	2,030.00	None	....	None	....	8240/3W5000A1	280.00	None	....	None	....
4X150A/7034	23.15	*See SK-600 Series Socket Listing				8241/3W5000F1	260.00	None	....	None	....
4X150D/7035	29.00	*See SK-600 Series Socket Listing				8242/3W5000A3	245.00	None	....	None	....
4X150G/8172	58.00	None	....	None	....	8243/3W5000F3	250.00	None	....	None	....
4X250B	35.60	*See SK-600 Series Socket Listing				8244/4CW2000A	220.00	SK-800B	54.00	None	....
4X250F	35.60	*See SK-600 Series Socket Listing						SK-810B	56.00	None	....
4X500A	127.50	SK-900	68.50	SK-906	15.00			SK-890B	65.00	None	....
5-500A	58.50	SK-400	17.50	None	....	8245/4CX250K	64.00	None	....	None	....
		SK-410	6.50	None	....	8250/3CX100F5	34.00	Jettron	....	None	....
5CX1500A	218.00	SK-840	61.25	SK-806	8.50	8281/4CX15,000A	695.00	No. 76-D20	....	SK-306	6.50
5CX3000A	437.00	Y-386	114.00	None	....			SK-300A	103.00	SK-316	9.65
304TH	83.00	E. F. Johnson	....	None	....					SK-1306	6.50
		No. 124-213	....	None	....	8283/3CX1000A7	250.00	SK-860	38.00	SK-816	7.00
304TL	83.00	E. F. Johnson	....	None	....			SK-870	40.00	SK-816	7.00
450TH	85.00	No. 124-213	....	None	....	8321/4CX350A	48.50	*See SK-600 Series Socket Listing			
450TL	85.00	E. F. Johnson	....	None	....	8322/4CX350F	51.50	*See SK-600 Series Socket Listing			
450TL	85.00	No. 123-211	....	None	....	8349/4CX35,000C	1,765.00	SK-1500	220.00	None	....
575A	20.15	E. F. Johnson	....	None	....	8350/4CW50,000C	2,100.00	SK-1500	220.00	None	....
592/3-200A3	55.00	No. 123-211	....	None	....	8351/4CV100,000C	2,350.00	SK-1510	250.00	None	....
673	20.15	E. F. Johnson	....	None	....	8352/4CX1000K	193.00	SK-820	140.00	SK-806	8.50
		No. 123-211	....	None	....			SK-830	178.00	SK-806	8.50
750TL	224.00	E. F. Johnson	....	None	....	8438/4-400A	48.00	SK-400	17.50	SK-406	6.50
		No. 123-206	....	None	....			SK-410	6.50	SK-406	6.50
869B	138.00	E. F. Johnson	....	None	....	8561/4CX300Y	105.00	SK-711A	25.70	SK-606	0.75
869B/L	138.00	No. 124-214	....	None	....			SK-760	10.70	None	....
5867A	30.60	None	....	None	....	8660/4CX1500B	205.00	SK-770	10.70	None	....
6155	36.00	SK-410	6.50	SK-406	6.50			SK-800B	54.00	SK-806	8.50
6156	42.00	SK-410	6.50	SK-406	6.50			SK-810B	56.00	SK-806	8.50
6696A	1,105.00	SK-410	6.50	SK-406	6.50	KY21A	33.80	SK-890B	65.00	SK-806	8.50
6697A	1,330.00	None	....	None	....			E. F. Johnson	....	None	....
7034/4X150A	23.15	None	....	None	....	RX21A	32.80	No. 122-225	....	None	....
7035/4X150D	29.00	None	....	None	....			E. F. Johnson	....	None	....
7203/4CX250B	35.60	None	....	None	....			No. 122-225	....	None	....
7204/4CX250F	35.60	None	....	None	....			No. 122-225	....	None	....
7211	88.50	None	....	None	....					
7257	45.00	Jettron	....	None	....					
7289/3CX100A5	26.50	No. 76-D20	....	None	....					
7480	1,590.00	SK-410	6.50	None	....					
7580W/4CX250R	44.50	Jettron	....	None	....					
7698	88.50	No. 76-D20	....	None	....					
7815/3CPN10A5	30.75	Jettron	....	None	....					
7815R/3CPX100A5	30.75	No. 76-D20	....	None	....					
7843	51.00	Jettron	....	None	....					
8158/3CX10,000A1	490.00	No. 76-D20	....	None	....					
8159/3CX10,000A3	490.00	None	....	None	....					
8160/3CX10,000A7	530.00	*See SK-600 Series Socket Listing									
8163/3-400Z	34.00	SK-1300	78.50	SK-1306	6.50						
8164/3-1000Z	78.00	SK-1300	78.50	SK-1306	6.50						
8165/4-65A	27.00	SK-1300	78.50	SK-1306	6.50						
		SK-410	6.50	SK-416	6.50						
		SK-510	6.50	SK-516	12.00						
		E. F. Johnson	....	None	....					
		No. 122-101	....	None	....					

***SK-600 Series Socket Listing**


For the following tubes, use the socket and chimney schedule shown below:

Tubes	Socket Type	Socket Price	Chimney Type	Chimney Price
4X150A/7034	SK-600	11.25	SK-606	0.75
4X150D/7035	SK-600A	11.25	SK-606	0.75
4X250B	SK-610	11.25	SK-606	0.75
4X250F	SK-620	12.00	SK-606	0.75
4CX250B/7203	SK-620A	15.00	SK-636B	11.00
4CX250F/7204			SK-626	0.75
4CX250R/7580W			SK-636B	11.00
4CX350A/8321			SK-626	0.75
4CX350F/8322			SK-636B	11.00
7203/4CX250B			SK-626	0.75
7204/4CX250F	SK-630A	15.00	SK-636B	11.00
7580W/4CX250R			SK-626	0.75
8321/4CX350A	SK-64J	6.90	SK-606	0.75
8322/4CX350F	SK-65D	8.50	None	....
7034/4X150A				
7035/4X150D				


Prices subject to change without notice. Write for complete specifications on any tube to Power Grid Tube Marketing.



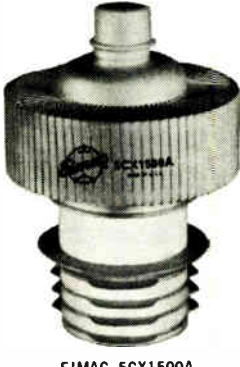
EIMAC 4CX5000R




EIMAC 4X250B




EIMAC 5-500A



EIMAC 5CX1500A



EIMAC 6697A



EIMAC
Division of Varian
San Carlos, California 94070

MEMO

TO: General Manager
FROM: Director of Engineering

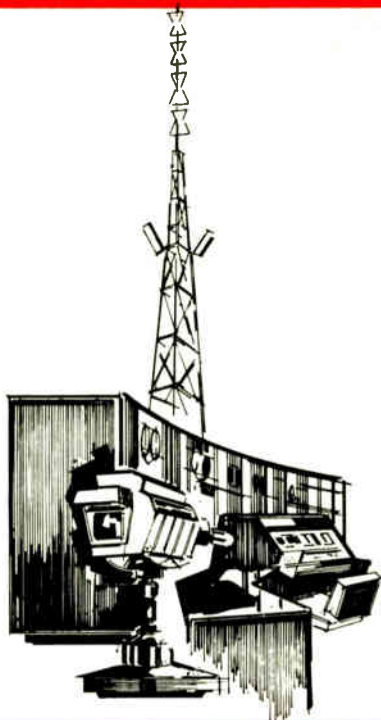
Like for you to look over this Computer-Programmer. I've been checking into what's available and this looks like the one for us, for several reasons:

1. It's a pretty sophisticated system. We could integrate our entire studio operation—master control switching, studio switching, audio functions, machine controls—the whole works.

2. All the peripheral equipment—machine control interfaces, video and audio switching gear, etc.—comes with it.

3. Most important—it works! It's made by Sarkes Tarzian, Inc. in Bloomington, Ind. They're the only ones I've found with actual computer experience in broadcasting—in both large and small stations. This 4th generation model of theirs has all the bugs worked out. Looks like they meet our basic criteria: they've got the experience, the equipment, and they've applied both.

What do you think?



PRODUCT DIRECTORY

The listings in this section have been compiled from questionnaires completed by manufacturers and service organizations across the nation. It contains over 650 major product classifications. For a specific manufacturer, see Guide to Manufacturers.

ACOUSTIC MATERIALS

ATLAS SOUND
HARTLY PRODUCTS
ROBINS INDUSTRIES CORP.
SINGER PRODUCTS CO.

ADAPTERS, CONNECTOR

AMECO, INC.
AMERICAN CABLE ELECTRONICS
AMPHENOL DISTRIBUTOR DIVISION
APPLIED ELECTRO-MECHANICS
ATLAS SOUND
BIRNS & SAWYER
BLONDRÉ-TONGUE LABORATORIES
G C ELECTRONICS COMPANY
GENERAL RADIO CO
HEWLETT-PACKARD CO.
IMPEX ELECTRONICS CORP
JERROLD ELECTRONICS CORP
MICROWAVE ASSOCIATES, INC.
PRODELIN, INCORPORATED
ROBINS INDUSTRIES CORP.
SWITCHCRAFT, INC.
THE TECHNICAL MATERIAL CORP
TROMPFER ELECTRONICS

ADAPTERS, FM STEREO

CALBEST ELECTRONICS
G C ELECTRONICS COMPANY
HEATH CO
IMPEX ELECTRONICS CORP
KARG LABORATORIES
MCMARTIN INDUSTRIES
SINGER PRODUCTS CO

ADAPTERS, TEST

AMECO, INC.
RIENBACH CO
DELTA ELECTRONICS, INC.
G C ELECTRONICS COMPANY
HEWLETT-PACKARD CO.
JERROLD ELECTRONICS CORP
MICROLAB / FXR

ADAPTERS, TUBE

ETMAC DIVISION OF VARIAN

ALARM, FAULT

BIONIC INSTRUMENTS, INC.
BIRD ELECTRONIC CORPORATION
HOUSTON ELECTRONICS CO.
HUGHEY & PHILLIPS
JERROLD ELECTRONICS CORP
MALLORY DISTRIBUTOR PRODUCTS
MOSELEY ASSOCIATES INC.
SINGER PRODUCTS CO.
SPENCER-KENNEDY LABORATORIES
TREPAC CORPORATION OF AMERICA

ALARM, INTRUDER

BIONIC INSTRUMENTS, INC.
ELECTRONICS ESSENTIALS OF CCC
THE JAMES FLOYD FORD CO

HOUSTON ELECTRONICS CO.

ALARM, SIGNAL

BIONIC INSTRUMENTS, INC.
DELTA ELECTRONICS, INC.
THE JAMES FLOYD FORD CO
MINNESOTA MINING - 3 M
SINGER PRODUCTS CO.
TREPAC CORPORATION OF AMERICA

AMMETERS, AC

ALLIED ELECTRONICS CORP
API INSTRUMENTS CO.
COLUMBIA ELECTRIC MFG CO
G E INDUSTRIAL SALES OPERATION
GENERAL ELECTRIC CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
INSTRUMENT LABORATORIES CORP
THE SINGER CO - METRICS DIV
TRIPLETT ELECTRICAL INSTRUMENT
YOKOGAWA ELECTRIC WORKS

AMMETERS, AC, THERMOCOUPLE

API INSTRUMENTS CO.
G E INDUSTRIAL SALES OPERATION
THE SINGER CO - METRICS DIV
TRIPLETT ELECTRICAL INSTRUMENT
YOKOGAWA ELECTRIC WORKS

AMMETERS, DC

ALLIED ELECTRONICS CORP
API INSTRUMENTS CO.
COMU ELECTRONICS
COLUMBIA ELECTRIC MFG CO
G E INDUSTRIAL SALES OPERATION
GENERAL ELECTRIC CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
INSTRUMENT LABORATORIES CORP
THE SINGER CO - METRICS DIV
TRIPLETT ELECTRICAL INSTRUMENT
YOKOGAWA ELECTRIC WORKS

AMMETERS, RF

G E INDUSTRIAL SALES OPERATION
HEWLETT-PACKARD CO.
THE SINGER CO - METRICS DIV
TELESIS CORPORATION
TELETRONIX
TRIPLETT ELECTRICAL INSTRUMENT
YOKOGAWA ELECTRIC WORKS

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MARTI ELECTRONICS

MELCOR ELECTRONICS
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SINGER PRODUCTS CO.
STEPHENS ELECTRONICS
TELETRONIX
VISUAL ELECTRONICS CORP
WARD ELECTRONIC INDUSTRIES
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C B S LABORATORIES
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VEGA ELECTRONICS CORPORATION
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AMPLIFIER, AF, GENERAL PURPOSE

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AMPLIFIER, AF, MONAURAL

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DAYTON ELECTRONIC PRODUCTS CO
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RCA BROADCAST PRODS.
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WILKINSON ELECTRONICS, INC

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Great solid-state profit-boosters! They let you realize the full potential of your transmitter. And any one or all will work for 30 days free! If they haven't proved their worth by then, ship them back. We'll even pay the freight.

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Audimax is an automatic level control guaranteed to outperform ordinary compressors, limiters or AGCs. It can increase effective program power up to 4:1.

Volumax is an automatic peak controller that overcomes the inherent limitations of peak limiters. Its microsecond regulation virtually doubles the efficiency of Audimax. Result: a combined increase in effective program power of up to 8:1.

The FM Volumax is a totally new concept in automatic peak control that solves FM overmodulation problems created by pre-emphasized audio signals. It offers positive prevention of FM overmodulation and SCA crosstalk without distortion.

Audimax thinks smart. Its solid state logic circuitry monitors incoming signal and compares it with its memory of average program content over a preceding period of time. This gives

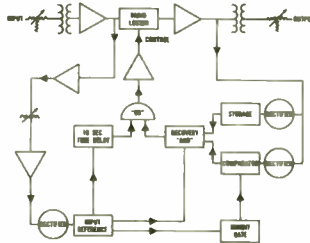


Audimax the ability to adapt to changing program gain situations and react in the same way a human engineer would.

Its remarkable Gated Gain Stabilizer enables Audimax to maintain constant gain during prolonged program pauses. It eliminates the fade-out of background effects or "swish-up" of background noise.

A special Return-to-Zero function

operates when standby conditions occur. Audimax waits about 10 seconds, keeping gain steady at the last correct setting.



When its memory is convinced that the program has ended, it slowly returns to normal gain. Background effects are held at natural levels, and proper level is assured upon resumption of program.

Audimax boosts overall average levels while automating control functions. Average modulation can be increased by 6 dB, which represents a 300% increase in radiated program power.

Specifications: Audimax III, Mod. 444, \$665. Frequency Response, flat within 1 dB, from 50 to 15,000 cps; Harmonic Distortion, less than 1% from 50 to 15,000 cps at +16 dBm output; Noise Level, below -60 dBm at normal gain; Control Characteristic, ± 10 dB of gain control; Gated Gain Stabilizer, threshold adjustable from -24 dB to normal output; Return-to-Zero Function, returns gain to normal during pauses greater than 10 seconds; Maximum Gain, 50 dB; Input and Output Impedance, 600 ohms, balanced or unbalanced (150 ohms optional); Normal Output Level, +11 VU; Maximum Output, +25 dBm; Minimum Input Level, -30 VU; Physical Dimensions, standard 19" rack mounting, 3 1/2" high, 9 5/8" deep; Power Requirements, 15 watts at 115/230 volts AC, 50/60 cps; Shipping Weight, 17 lbs.; Audimax III S,

Model 445, specially coupled for Stereophonic Operation, \$1390.

Volumax makes each watt work harder. The only similarity between Volumax and conventional peak limiters is that it also prevents overmodulation by instantaneous program peaks. But with conventional limiters, program level must be reduced so that limiting of peaks won't cause drastic distortion and "pumping". Conventional limiters usually moderate pumping by using long recovery times. Thus, in intervals immediately following high peaks, valuable modulation capability is wasted as limiter recovers from reduced gain.

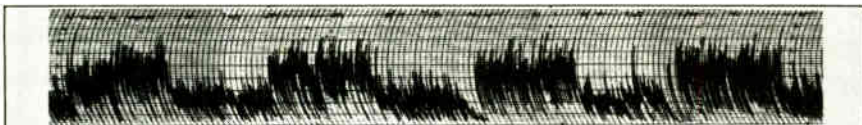


Volumax, however, analyzes all program material, automatically chooses the most appropriate regulation speed and limiting action is gentle or micro-second fast, depending on the nature of the program waveform. Result: a more even, pleasant sound that can be safely transmitted at twice the program power usually expected with conventional limiters.

While Audimax controls average program levels, Volumax precisely controls transmitter modulation. Used together, they can raise effective program power by factor of nearly 8:1.

Bonus for AM Broadcasters: Since Volumax can be operated asymmetrically at the user's option, limiting levels for negative peaks may be kept below the 100% modulation level, while positive peaks may be allowed to exceed 100%, thus boosting effective coverage still further.

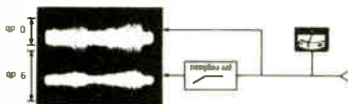
onth's work



Under carefully controlled test conditions, the performance of a Volumax was compared with a popular conventional peak limiter by a non-CBS affiliated broadcasting network. Both devices were adjusted for comparable limiting and peak output resulting in 100% modulation. At five-minute intervals the two units were alternately switched into the transmission circuit and the off-the-air demodulated signals were compared in a monitoring receiver. The above chart of a recording VU meter shows the results. Volumax provided nearly twice the modulation level of the conventional limiter.

Specifications: Volumax, Mod. 400, \$665. Input and Output Impedance, 600 ohms, balanced or unbalanced; Input Level, -24 to +8 dBm; Maximum Output Level, controlled peaks +21 dBm; noncontrolled peaks +25 dBm; Maximum Gain, 50 dB; Noise Level, below -70 dB re +21 dBm output; Frequency Response, flat within 1 dB, 50 to 15,000 cps throughout normal control range; Attack Time, less than 1 microsecond or 2 milliseconds, depending on program waveform; Recovery Time, 140 milliseconds; Maximum Operating Temperature, 55° C; Power Requirements, 15 watts at 115/230 volts AC, 50/60 cps; Physical Dimensions, fits standard 19" rack, 3½" high, 9⅞" deep; Shipping Weight, 17 lbs.

FM Volumax now solves the classic FM pre-emphasis dilemma. Musical effects such as cymbal crashes can easily cause overmodulation up to 300%.



(Diagram and oscilloscope photos show audio peak levels of cymbal crash with and without pre-emphasis.) To transmit such a signal safely, an FM broadcaster would have to reduce his low frequency

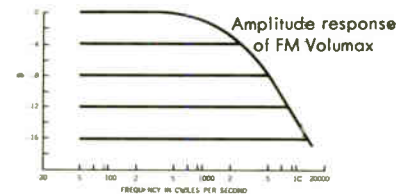
modulation level to approximately 35% and operate with less than 1/8 of his authorized maximum program power. Various methods of control have been tried from time to time. Limiting before pre-emphasis, controls low frequencies but doesn't permit much increase in program levels. Limiting after pre-emphasis, controls overmodulation, but often means severe pumping and sudden losses in level. Clipping after pre-emphasis, removes only offending peaks, and creates new problems of serious distortion.



Solution: the new FM Volumax works like a recording-session engineer who moves certain instruments away from the microphones and requires others to play softer. It uses time-varying functions to control low and high frequency amplitudes separately, and instantaneous final limiting to prevent overmodulation. A new method of dynamic frequency compensation adjusts high frequency levels and processes all frequencies at reference level, without distortion.

Amplitude response of FM Volumax. At low levels, frequency response is flat over

entire range. At maximum levels, response is the inverse of the pre-emphasis slope. Thus, maximum output is always precisely equal to the 100% modulation level, after transmitter pre-emphasis.



Specifications: FM Volumax, Mod. 410, \$695. Input and Output Impedance, 600 ohms, balanced or unbalanced (150 ohms optional); Input Level, -24 to +8 dBm; Maximum Peak Output Level, +21 dBm; Maximum Gain, 50 dB; Noise Level, below -70 dB re +21 dBm output; Frequency Response, flat within 1 dB, 50 to 15,000 cps, 20 dB below maximum level; 75 microsecond slope at maximum; 50 microsecond or other contours possible with simple field modification; Harmonic Distortion, less than 1% from 50 to 15,000 cps throughout entire control range; Attack Time, less than one microsecond or 2 milliseconds depending on program waveform; Recovery Time, 140 milliseconds (low frequencies), 10 milliseconds (high frequencies); Maximum Operating Temperature, 55° C; Power Requirements, 15 watts, at 115/230 Volts AC, 50/60 cps; Physical Dimensions, standard 19" rack, 3½" high, 9⅞" deep; Shipping Weight, 18 lbs.; FM Volumax, Model 411, specially coupled for Stereophonic Operation, \$1390.

All prices F.O.B. Stamford, Connecticut.



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WILKINSON ELECTRONICS, INC

AMPLIFIER, AF.

PEAK LIMITING, FM
PEAK LIMITING, FM
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THOMSON ELECTRIC CO
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ANTENNAS, LF

MULTRONICS

ANTENNAS, MF

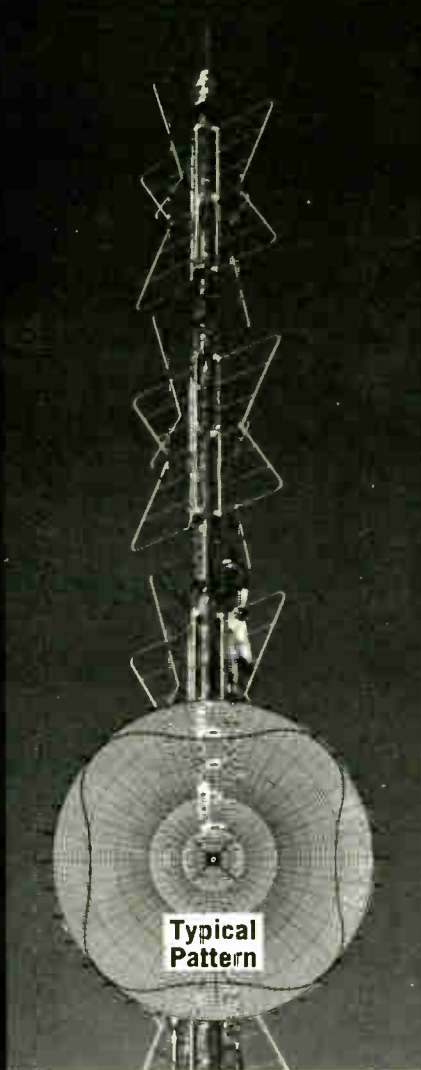
MULTRONICS

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ANDREW CORPORATION
DEMORAY - BONARDI DIVISION
FORT WORTH TOWER CO., INC.
JERROLD ELECTRONICS CORP
LITTON EDUCATIONAL TELE DIV
MICRO-LINK SYSTEMS/VARIAN ASSO
MOTOROLA COMMUNICATIONS
NARDA MICROWAVE CORPORATION
PRODELIN, INCORPORATED
RAYTHEON CO EQUIPMENT DIVISION

for TOP PERFORMANCE in TV ANTENNAS

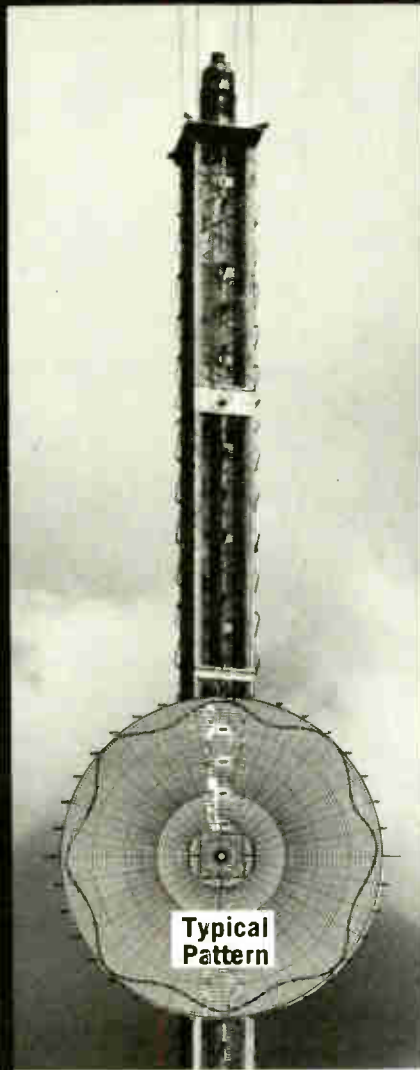
VHF SUPER TURNSTILE



Typical
Pattern

DESCRIPTION
Improved mechanical construction
Wide variety of Gains
Power rating to 50 kw
Beam tilting and null fill available at no increase in cost

UHF ZIG ZAG



Typical
Pattern

DESCRIPTION
Simple panel construction
All copper elements
All Teflon insulated
Low VSWR
Inputs to 60 kw
Gain of about 30 per panel

CORNER REFLECTORS



Typical
Pattern

DESCRIPTION
Wide variety of frequencies from Channel 2 through 83
Low VSWR
Versatile for fill in or directionals
Gains of generally around 10 per corner

J A M P R O

- TV Antennas
- Coax Switches
- Notch Diplexers
- FM Antennas
- Harmonic Filters
- ETV Antennas

**ANTENNA
COMPANY**
6939 POWER INN ROAD

COMPANY
SACRAMENTO CALIFORNIA

RCA BROADCAST PRODS.
ROMHE & SCHWARZ SALES CO. -USA
SCIENTIFIC-ATLANTA
SINGER PRODUCTS CO
STAINLESS, INC.
TECHNICAL APPLIANCE CORP
VISUAL ELECTRONICS CORP

ANTENNAS, MOBILE

ANDREW CORPORATION
F & M SYSTEMS COMPANY
GATES RADIO COMPANY
G C ELECTRONICS COMPANY
HY-GAIN ELECTRONICS
JERROLD ELECTRONICS CORP
HFRB KRECKMAN CO
LINDSAY SPECIALTY PRODUCTS
MARTI ELECTRONICS
MOTOROLA COMMUNICATIONS
PRODELIN, INCORPORATED
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
TECHNICAL APPLIANCE CORP
UTICA CORPORATION
WATERS MANUFACTURING

ANTENNAS, REMOTE PICKUP

HERB KRECKMAN CO

ANTENNAS, TV

ALFORD MANUFACTURING COMPANY
ALLIED ELECTRONICS CORP
BLONDER-TONGUE LABORATORIES
FMCEE
THE FINNEY CO
GATES RADIO COMPANY
G C ELECTRONICS COMPANY
G E VISUAL COMMUNICATIONS PROD
JAMPRO ANTENNA COMPANY
JERROLD ELECTRONICS CORP
LINDSAY SPECIALTY PRODUCTS
MARCONI DIVISION
PACIFIC TOWER CO
RCA BROADCAST PRODS.
SCALA RADIO CORPORATION
SINGER PRODUCTS CO.
TECHNICAL APPLIANCE CORP
THOMSON ELECTRIC CO
VISUAL ELECTRONICS CORP

ANTENNAS, TV, MASTER-COMMUNITY

AMECO, INC.
AMPLIVISION CORPORATION
ANTENNA PRODUCTS COMPANY
BENCO TELEVISION ASSOCIATES
BLONDER-TONGUE LABORATORIES
CUSH CRAFT
THE FINNEY CO
JERROLD ELECTRONICS CORP
LINDSAY SPECIALTY PRODUCTS
SCALA RADIO CORPORATION
SCIENTIFIC-ATLANTA
SITCO ANTENNA CO.
STAINLESS, INC
TECHNICAL APPLIANCE CORP

ANTENNAS, 2500 MHZ

ALFORD MANUFACTURING COMPANY
AMERICAN ELECTRONIC LABS
ANDREW CORPORATION
JAMPRO ANTENNA COMPANY
JERROLD ELECTRONICS CORP
LITTON EDUCATIONAL TELE DIV
NARDA MICROWAVE CORPORATION
PRODELIN, INCORPORATED
RAYTHEON CO EQUIPMENT DIVISION
RCA BROADCAST PRODS.
SCIENTIFIC-ATLANTA
TECHNICAL APPLIANCE CORP

ANTENNAS, SYSTEMS, HF

DELTA ELECTRONICS INC

ARMS, PHONOGRAPH -

SEE ARMS, TONE

ARMS, TONE

THE ASTATIC CORPORATION
EUPHONICS MARKETING
GATES RADIO COMPANY
GOTHAM AUDIO CORPORATION
GRAY RESEARCH & DEVELOPMENT CO
KOSS ELECTRONICS, INC.
RCA BROADCAST PRODS.
SHURE BROTHERS, INC.
SINGER PRODUCTS CO
SONY CORPORATION OF AMERICA

ATTENUATORS, AUDIO

ALTEC LANSING
AMECO, INC.
CENTRALAB
FAIRCHILD RECORDING EQUIPMENT
GENERAL RADIO CO
HEWLETT-PACKARD CO.
JORDAN ELECTRIC COMPANY
LANGEVIN
MALLORY DISTRIBUTOR PRODUCTS
MICROLAB / FXR
PAINTON INCORPORATED
ROMHE & SCHWARZ SALES CO. -USA
SOUNDCRAFT INDUSTRIES
SOUTHWESTERN COMMUNICATIONS
STEPHENS ELECTRONICS
TELEONIC INDUSTRIES
TROMPETER ELECTRONICS

ATTENUATORS, FIXED

ALTEC LANSING
BIRD ELECTRONIC CORPORATION
GENERAL MICROWAVE CORPORATION
GENERAL RADIO CO
GOTHAM AUDIO CORPORATION
HEWLETT-PACKARD CO.
HOLLAND ELECTRONICS INC
JERROLD ELECTRONICS CORP
JORDAN ELECTRIC COMPANY

LANGEVIN
MICROLAB / FXR
MICROWAVE ASSOCIATES, INC.
NARDA MICROWAVE CORPORATION
PAINTON INCORPORATED
RCA BROADCAST PRODS.
ROMHE & SCHWARZ SALES CO. -USA
THE SINGER CO - METRICS DIV
SOUTHWESTERN COMMUNICATIONS
TROMPETER ELECTRONICS

ATTENUATORS, IMPEDANCE MATCHING

ALTEC LANSING
AMECO, INC.
HOLLAND ELECTRONICS INC
JERROLD ELECTRONICS CORP
MICROLAB / FXR
MICROWAVE ASSOCIATES, INC.
NARDA MICROWAVE CORPORATION
OHMITE MANUFACTURING COMPANY
PAINTON INCORPORATED
ROMHE & SCHWARZ SALES CO. -USA
SOUTHWESTERN COMMUNICATIONS
TROMPETER ELECTRONICS

ATTENUATORS, MICROWAVE

AMECO, INC.
DEMORNAY - BONARDI DIVISION
GENERAL MICROWAVE CORPORATION
GENERAL RADIO CO
HEWLETT-PACKARD CO.
JERROLD ELECTRONICS CORP
MICROLAB / FXR
MICROWAVE ASSOCIATES, INC.
NARDA MICROWAVE CORPORATION
PRODELIN, INCORPORATED
ROMHE & SCHWARZ SALES CO. -USA
SCIENTIFIC-ATLANTA
THE SINGER CO - METRICS DIV
TELEONIC INDUSTRIES

ATTENUATORS, RF

AMECO, INC.
BENCO TELEVISION ASSOCIATES
BIRD ELECTRONIC CORPORATION
BLONDER-TONGUE LABORATORIES
GENERAL MICROWAVE CORPORATION
GENERAL RADIO CO
HEWLETT-PACKARD CO.
HOLLAND ELECTRONICS INC
JERROLD ELECTRONICS CORP
MARCONI INSTRUMENTS
MICROLAB / FXR
MICROWAVE ASSOCIATES, INC.
NARDA MICROWAVE CORPORATION
PAINTON INCORPORATED
PRODELIN, INCORPORATED
ROMHE & SCHWARZ SALES CO. -USA
SCIENTIFIC-ATLANTA
THE SINGER CO - METRICS DIV
SINGER PRODUCTS CO.
TELEONIC INDUSTRIES
TOWNSEND ASSOCIATES
TROMPETER ELECTRONICS
WATERS MANUFACTURING

ATTENUATORS, VIDEO

AMECO, INC.
CENTRAL DYNAMICS CORPORATION
HOLLAND ELECTRONICS INC
NARDA MICROWAVE CORPORATION
PAINTON INCORPORATED
ROMHE & SCHWARZ SALES CO. -USA
SARKES-TARZIAN
SCIENTIFIC-ATLANTA
TELEONIC INDUSTRIES
TROMPETER ELECTRONICS

AUTOMATION, EQUIPMENT

AITKEN COMMUNICATIONS

AMECO, INC.
BROADCAST ELECTRONICS, INC
BROADCAST PRODUCTS COMPANY
CCA ELECTRONICS CORPORATION
CENTRAL DYNAMICS CORPORATION
CHRONO-LOG CORPORATION
CONTINENTAL ELECTRONICS MFG
DELTA ELECTRONICS, INC.
F & M SYSTEMS COMPANY
GATES RADIO COMPANY
HANCOCK TELECONTROL
INTERNATIONAL GOOD MUSIC
KRS INSTRUMENTS DIVISION
MACARTA INC.
MACKENZIE LABORATORIES
MID AMERICA ELECTRONICS CORP
ORBIT RADIO
RCA BROADCAST PRODS.
RIKER VIDEO INDUSTRIES
SARKES-TARZIAN
SCHAFER ELECTRONICS
SCULLY RECORDING INSTRUMENTS
SINGER PRODUCTS CO
S. STERLING COMPANY
TAPECASTER ELECTRONICS
TELESIS CORPORATION
TREPAC CORPORATION OF AMERICA
TROMPETER ELECTRONICS
VISUAL ELECTRONICS CORP
WARD ELECTRONIC INDUSTRIES

BACKGROUND MUSIC SERVICE

AMECO, INC.
ASCO SONOCRAFT CORP
BROWNING LABORATORIES, INC.
CCA ELECTRONICS CORPORATION
CINE SONIC SOUND
THE JAMES FLOYD FORD CO
INTERNATIONAL GOOD MUSIC
MAGNE-TRONICS, INC.
MCMARTIN INDUSTRIES
MINNESOTA MINING - 3 M
MOTOROLA COMMUNICATIONS
ORBIT RADIO
SCHAFER ELECTRONICS

SINGER PRODUCTS CO
SOUTHWESTERN COMMUNICATIONS
ALBERT SCHULTZ, INC

RALLASTS, LAMP

GENERAL ELECTRIC CO
SDLA ELECTRIC

RALLUS

AMECO, INC.
AMERICAN ELECTRONIC LABS
KEITH ANDERSON CO
ANTENNA PRODUCTS COMPANY
APPARATUS DEVELOPMENT CO
BLONDER-TONGUE LABORATORIES
THE FINNEY CO
GENERAL RADIO CO
JERROLD ELECTRONICS CORP
RIKER VIDEO INDUSTRIES
ROMHE & SCHWARZ SALES CO. -USA
SCALA RADIO CORPORATION
SINGER PRODUCTS CO.
SITCO ANTENNA CO.
STANDARD ELECTRONICS CORP
THE TECHNICAL MATERIEL CORP
TELEONIC INDUSTRIES
TRYLON INCORPORATED

BASE STATIONS

GATES RADIO COMPANY
MARTI ELECTRONICS
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
UTICA CORPORATION

BATTERIES, DRY CELL

BURGESS BATTERY COMPANY
RCA ELECTRONIC COMPONENTS

BATTERIES, LEAD ACID

IMPEX ELECTRONICS CORP
SINGER PRODUCTS CO

BATTERIES, NICKEL CADMIUM

BERKEY TECHNICAL CORP
BIRNS & SAWYER
COLORTRON INDUSTRIES - BERKEY
G E CAPACITOR DEPARTMENT
GENERAL ELECTRIC CO
IMPEX ELECTRONICS CORP
SINGER PRODUCTS CO.

BATTERIES, OTHER

GENERAL ELECTRIC CO

BLOWERS AND FANS

AMECO, INC.
BUO RADIO, INC
OYANCOOL MANUFACTURING CO
ENCLOSURE CORP
RCA BROADCAST PRODS.
ROTRON MANUFACTURING COMPANY
SIGMA INDUSTRIES
SINGER PRODUCTS CO.

BOXES, DECADE, CAPACITOR

AEROVIX CORP.
GENERAL RADIO CO
HEATH CO

BOXES, DECADE, INDUCTOR

AEROVIX CORP.
GENERAL RADIO CO
UNITED TRANSFORMER COMPANY

BOXES, DECADE, RESISTOR

AEROVIX CORP.
GENERAL RADIO CO
HEATH CO
JORDAN ELECTRIC COMPANY
OHMITE MANUFACTURING COMPANY

BRIDGES

ALFORD MANUFACTURING COMPANY
ALTEC LANSING
AMECO, INC.
BLONDER-TONGUE LABORATORIES
DELTA ELECTRONICS INC
GENERAL ELECTRIC CO
GENERAL MICROWAVE CORPORATION
GENERAL RADIO CO
HEATH CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
JERROLD ELECTRONICS CORP
MARCONI INSTRUMENTS
ROMHE & SCHWARZ SALES CO. -USA
YOKOGAWA ELECTRIC WORKS

BROADCAST PROGRAMMING SERVICE

AMECO, INC.
ASCO SONOCRAFT CORP
BISCAYNE AUDIO COMPANY
THE JAMES FLOYD FORD CO
HOUSTON ELECTRONICS CO.
INTERNATIONAL GOOD MUSIC
ORBIT RADIO
SCHAFER ELECTRONICS
ALBERT SCHULTZ, INC
TELEVISION, INC.

BUILDINGS, PREFABRICATED -

SEE PREFABRICATED BUILDINGS

CABINETS, METAL

ACHE VISIBLE RECORDS
ALLIED ELECTRONICS CORP
AMECO, INC.
BUD RADIO, INC
BURKE & JAMES
CCA ELECTRONICS CORPORATION
COOK ELECTRIC COMPANY
DATA INSTRUMENT DIVISION
ENCLOSURE CORP
GATES RADIO COMPANY

G E VISUAL COMMUNICATIONS PROD
HARWOOD MFG. CO.
JERROLD ELECTRONICS CORP
LANG ELECTRONICS, INC
MCMARTIN INDUSTRIES
METROPOLITAN ELECTRIC MFG CO
NEUMADE PRODUCTS CORPORATION
RCA BROADCAST PRODS.
SCHAFER ELECTRONICS
SCIENTIFIC-ATLANTA
SPENCER-KENNEDY LABORATORIES
VENT-RAK INCORPORATED
WABER ELECTRONICS, INC.

CABINETS, PLASTIC

RCA BROADCAST PRODS.

CABINETS, STORAGE, DISC

ACHE VISIBLE RECORDS
GATES RADIO COMPANY
GRINNAN FIXTURE COMPANY
HARWALD COMPANY
NEUMADE PRODUCTS CORPORATION
WALLACH & ASSOCIATES

CABINETS, STORAGE, FILM

ACHE VISIBLE RECORDS
GRINNAN FIXTURE COMPANY
HARWALD COMPANY
MINNESOTA MINING - 3 M
NEUMADE PRODUCTS CORPORATION
RCA BROADCAST PRODS.
WALLACH & ASSOCIATES

CABINETS, STORAGE

MAGNETIC TAPE
ACHE VISIBLE RECORDS
BROADCAST ELECTRONICS, INC
BURKE & JAMES
COOK ELECTRIC COMPANY
GRINNAN FIXTURE COMPANY
MINNESOTA MINING - 3 M
NEUMADE PRODUCTS CORPORATION
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
WALLACH & ASSOCIATES

CABINETS, STORAGE

MAGNETIC TAPE, CARTRIDGE
BROADCAST ELECTRONICS, INC
BROADCAST PRODUCTS COMPANY
SPARTA ELECTRONIC CORPORATION

CABINETS, STORAGE, SLIDE

WALLACH & ASSOCIATES

CABINETS, WOOD

BROADCAST PRODUCTS COMPANY
BURKE & JAMES
GATES RADIO COMPANY
GRINNAN FIXTURE COMPANY
LANG ELECTRONICS, INC
LITTLE JOE ENTERPRISES
MARANTZ COMPANY
SETCHELL CARLSON INCORPORATED

CABLE, ARMORED

ALLIED ELECTRONICS CORP
ALPHA WIRE
AMPHENOL DISTRIBUTOR DIVISION
BIRNBACH CO
BOSTON INSULATED WIRE & CABLE
PHELPS DODGE
SUPERIOR CABLE CORPORATION

CABLE, ASSEMBLIES

ALPHA WIRE
AMECO, INC.
AMPHENOL DISTRIBUTOR DIVISION
ANDREW CORPORATION
BOSTON INSULATED WIRE & CABLE
COHU ELECTRONICS

D & B ELECTRONICS COMPANY
G C ELECTRONICS COMPANY
GENERAL RADIO CO
GIBBS MFG. AND RESEARCH CORP.
ITT CANNON ELECTRIC
JERROLD ELECTRONICS CORP
PHELPS DODGE
ROBINS INDUSTRIES CORP.
ROME CABLE DIV OF ALCOA
SAXTON PRODUCTS
SINGER PRODUCTS CO.
SOUTHWESTERN COMMUNICATIONS
SUPERIOR CABLE CORPORATION
SYLVANIA-COMM. ELECTRONICS DIV
TELEQUIP CORPORATION
TIMES WIRE AND CABLE
TROMPETER ELECTRONICS
WECKESSER COMPANY, INC.

CABLE, CAMERA
BOSTON INSULATED WIRE & CABLE

CABLE, CATV, HARDWARE

AMECO, INC.
AMPHENOL DISTRIBUTOR DIVISION
AMPLIVISION CORPORATION
ANACONDA ASTRODATA CO
ANDREW CORPORATION
COPPERWELD STEEL COMPANY
CRAFTSMAN ELECTRONICS PRODUCTS
DIAMOND EXPANSION BOLT CO INC
JERROLD ELECTRONICS CORP
KAISER-COX
PHELPS DODGE
PRODELIN, INCORPORATED
SIGMA INDUSTRIES
SPENCER-KENNEDY LABORATORIES
SUPERIOR CABLE CORPORATION
TELEMET COMPANY
TELEQUIP CORPORATION
TIMES WIRE AND CABLE

CABLE, COAXIAL, FLEXIBLE

ALPHA WIRE

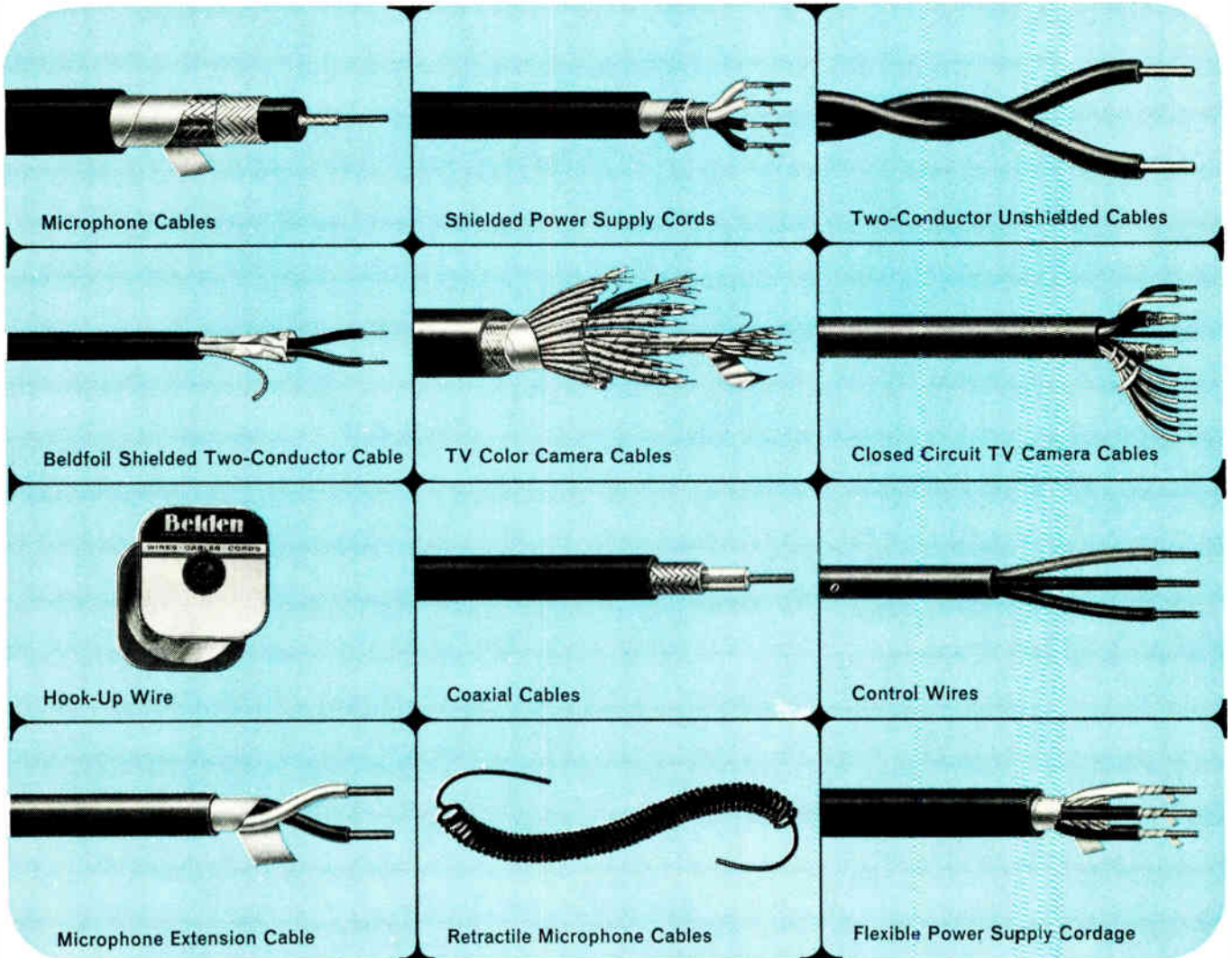
Why is Belden specified by most broadcast engineers?

Belden designs and manufactures a complete line of audio, camera, and control cables to meet every TV and radio broadcasting, recording studio, and remote control need.

Many Belden Audio and Broadcast Cables feature Beldfoil* shielding. This superior cable shield provides 100% protection against crosstalk . . . increases electrical reliability . . . reduces cable diameter and weight . . . is easier to terminate . . . usually lower in cost. Here is just a part of this complete line, available from stock. Ask your Belden Electronics Distributor for complete information. Request also a copy of the latest Belden Electronics Catalog.



*Belden U.S. Pat. 3,032,604
Belden Trademark—Reg. U.S. Pat. Off.



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see your Belden Electronics Distributor

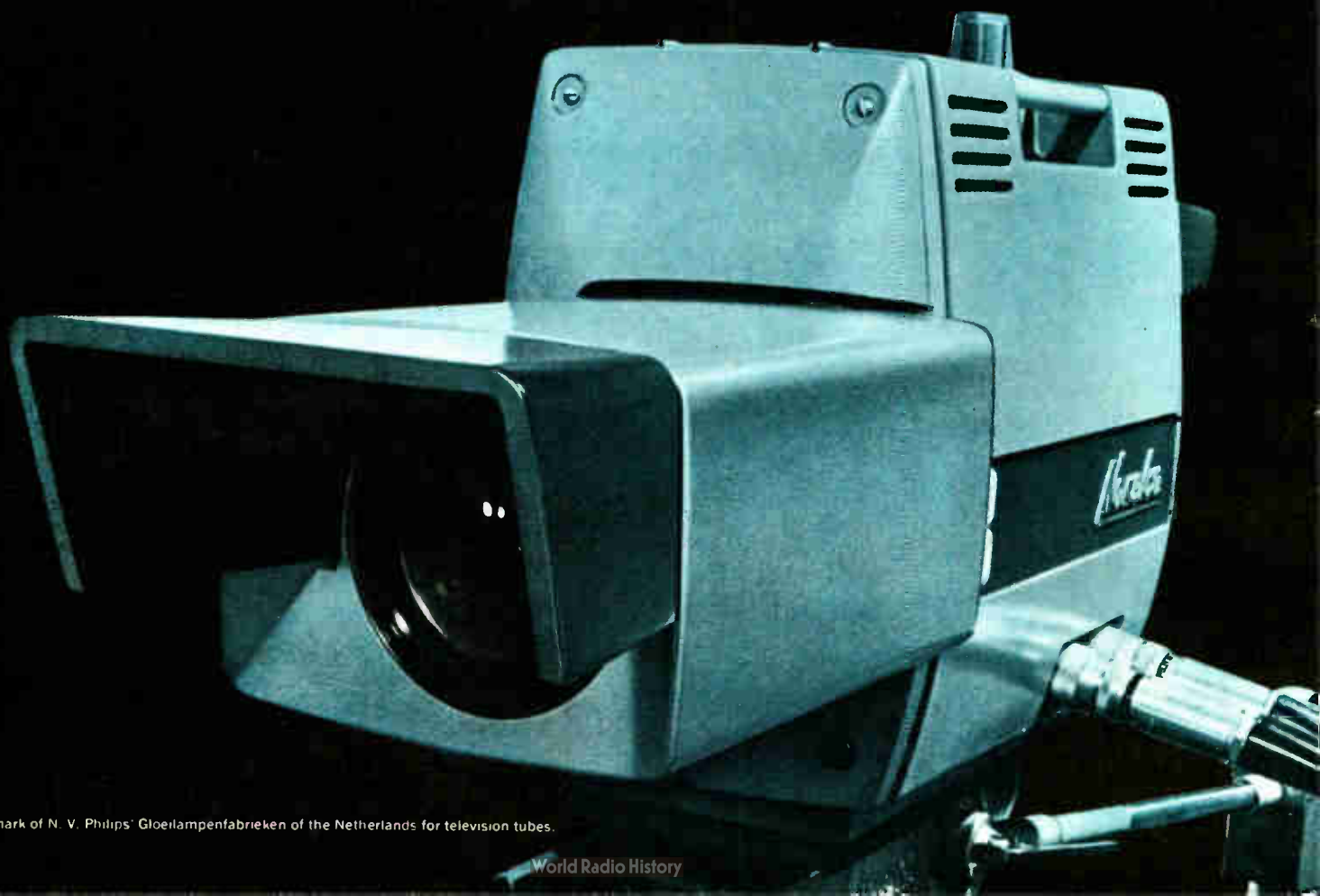


electronic wire and cable

BELDEN MANUFACTURING COMPANY • P.O. Box 5070-A • Chicago, Illinois 60680

**Two of the three major networks use
Norelco cameras for their prime-time color shows.**

**If that doesn't convince you to buy a
Norelco 3-tube Plumbicon* color camera,
take a trip on us.**



Trademark of N. V. Philips' Gloeilampenfabrieken of the Netherlands for television tubes.

World Radio History

This is an invitation to discover—at our expense—the practical, everyday reasons why you should now be using the new Norelco 3-tube Plumbicon rather than any other color TV camera on the market. Do this. Call, or write us direct. We'll schedule and pay for a trip to a station now using the Norelco 3-tube Plumbicon TV camera—subject to the availability of the station's time and technical personnel. They'll tell you and show you why they chose the new Norelco. You'll see it in program action. You'll learn for yourself—at no cost to yourself—why the Norelco Plumbicon TV camera is used for more programming than all other new generation makes.

Here's a partial list of stations now using the new Norelco

EAST	
STATION	LOCATION
WNHC-TV	New Haven, Connecticut
WNEW-TV	New York
REEVES SOUND STUDIO	New York
SOUTH	
WAGA-TV.	Atlanta, Georgia
WJBF-TV	Augusta, Georgia
WCYB-TV	Bristol, Virginia/Tenn.
WKRG-TV	Mobile, Alabama
WSPA-TV	Spartanburg, S.C.
MIDWEST	
WFIE-TV	Evansville, Indiana
WFRV-TV	Green Bay, Wisconsin
WISH-TV	Indianapolis, Indiana
WEST	
KABC-TV	Los Angeles, California
KTTV	Los Angeles, California
KXTV	Sacramento, California

When you visit one of these stations you'll be able to separate the facts from the fiction regarding color TV cameras. Facts and fiction like this:

FICTION: A 4-tube camera produces a sharper picture than a 3-tube color camera.

FACT: This concept is as obsolete as the 12-cylinder car. The Norelco 3-tube PC-70 Plumbicon Color Camera produces a sharper color and monochrome picture than any 4-tube camera. Reason: the first practical application of the unique "contours-out-of-green" principle provides both horizontal and vertical aperture correction. The contour signal produced from the green channel, is simply fed to all three channels.

RESULT: A startling increase in color and monochrome sharpness — on the home receiver—plus the same tolerance to misregistration that a fourth tube provides. All with one less tube, less maintenance, minimum operational make-ready time and trouble-free color matching.

FICTION: "Contours-out-of-green" creates an excessive noise problem.

FACT: Absolutely not. But some 4-tube cameras do have a noise problem. Check the "specs." You'll discover that these 4-tube models recommend a fixed gamma of 0.5. We provide continuously variable gamma and recommend an 0.45 operating point. This stretches blacks and gives you more detail in dark areas and shadows. A gamma of 0.5 hides noise by compressing blacks. Result: the 4-tube camera loses dark area detail and literally demands the use of flat lighting.

FICTION: By this time next year Norelco will be selling a

four tube camera.

FACT: Definitely not. We made the best possible 4-tube camera but decided not to sell it. While using it to compare 3-tube vs. 4-tube, we discovered what every 4-tube manufacturer has since learned: 4-tube resolution is inherently less than 3-tube; that extra light split to the Y channel reduces the light to the RGB channels, causing noticeable lag. (Try moving a light object against a dark background with a camera using 4 photo conductor pick-up tubes. You'll see what we mean.)

FICTION: The Norelco PC-70 is made in Holland and won't be in full production for years.

FACT: The PC-70 camera is made by Norelco in Mt. Vernon, N. Y., where existing and constantly expanding facilities are meeting the demand for the most economical, easiest to use and maintain, color TV camera available today.

Other reasons to choose the Norelco PC-70:

A simple but remarkable 3-way beam split prism that eliminates the need for shading controls. (Because of their complicated beam split, many 4-tube models require as many as 16 shading controls.)

No magenta cast, a problem even some of the newest 4-tube cameras haven't solved.

Lens interchangeability.

No set-up operating controls in the camera head except for tube-focus and back-focus positions. Eliminates the need for a two-man set-up and for hectic on-the-set adjustments.

Now get all the reasons to choose the Norelco PC-70. Get them from the men behind the camera, Today, call our sales representative, Visual Electronics, or call us directly.



NORTH AMERICAN PHILIPS COMPANY, INC.
900 South Columbus Avenue, Mount Vernon, New York 10550

AMFCO, INC.
 AMPHENOL DISTRIBUTOR DIVISION
 ANACONDA ASTRODATA CO
 ANDREW CORPORATION
 ANSONIA WIRE AND CABLE CO
 BELDEN MANUFACTURING CO
 BOSTON INSULATED WIRE & CABLE
 GENERAL RADIO CO
 GOTHAM AUDIO CORPORATION
 ITT WIRE & CABLE DIVISION
 JAMPHO ANTENNA COMPANY
 JERROLD ELECTRONICS CORP
 PHELPS DOUG
 PRODELIN, INCORPORATED
 RCA BROADCAST PRODS.
 ROME CABLE DIV OF ALCOA
 SAXTON PRODUCTS
 SINGER PRODUCTS CO.
 SPENCER-KENNEDY LABORATORIES
 SUPERIOR CABLE CORPORATION
 TELEQUIP CORPORATION
 TENSOLITE INSULATED WIRE CO.
 TIMES WIRE AND CABLE
 VISUAL ELECTRONICS CORP

CABLE, COAXIAL, RIGID

ALPHA WIRE
 AMPHENOL DISTRIBUTOR DIVISION
 ANDREW CORPORATION
 ANTENNA PRODUCTS COMPANY
 ITT WIRE & CABLE DIVISION
 JAMPHO ANTENNA COMPANY
 JERROLD ELECTRONICS CORP
 PHELPS DOUG
 PRODELIN, INCORPORATED
 RCA BROADCAST PRODS.
 SAXTON PRODUCTS
 SINGER PRODUCTS CO.
 SUPERIOR CABLE CORPORATION
 TECHNICAL APPLIANCE CORP
 TELEQUIP CORPORATION
 TIMES WIRE AND CABLE
 VISUAL ELECTRONICS CORP

CABLE, DIRECT-BURIAL

ALPHA WIRE
 AMECO, INC.
 AMPHENOL DISTRIBUTOR DIVISION
 ANACONDA ASTRODATA CO
 ANDREW CORPORATION
 BELDEN MANUFACTURING CO
 BIRNBACH CO
 ITT WIRE & CABLE DIVISION
 JERROLD ELECTRONICS CORP
 PHELPS DOUG
 ROME CABLE DIV OF ALCOA
 SAXTON PRODUCTS
 SUPERIOR CABLE CORPORATION
 TELEQUIP CORPORATION
 TIMES WIRE AND CABLE

CABLE, SHIELDED, AUDIO

ALLIED ELECTRONICS CORP
 ALPHA WIRE
 AMPHENOL DISTRIBUTOR DIVISION
 BELDEN MANUFACTURING CO
 BIRNBACH CO
 BOSTON INSULATED WIRE & CABLE
 G C ELECTRONICS COMPANY
 G E VISUAL COMMUNICATIONS PROD
 GOTHAM AUDIO CORPORATION
 LENZ ELECTRIC MANUFACTURING CO
 RCA BROADCAST PRODS.
 ROBINS INDUSTRIES CORP.
 ROME CABLE DIV OF ALCOA
 SAXTON PRODUCTS
 SINGER PRODUCTS CO.
 SUPERIOR CABLE CORPORATION
 TELEQUIP CORPORATION
 TENSOLITE INSULATED WIRE CO.

CABLE, TELEPHONE

ALPHA WIRE
 AMFCO, INC.
 ANSONIA WIRE AND CABLE CO
 BELDEN MANUFACTURING CO
 BIRNBACH CO
 FISHER BERKELEY CORPORATION
 ITT WIRE & CABLE DIVISION
 LENZ ELECTRIC MANUFACTURING CO
 ROME CABLE DIV OF ALCOA
 SAXTON PRODUCTS
 SUPERIOR CABLE CORPORATION

CALIBRATION SERVICE, FREQUENCY

EIDSON ELECTRONIC COMPANY
 ELECTRONICS ESSENTIALS OF CCC
 F & M SYSTEMS COMPANY
 HERB FITZGERALD COMMUNICATIONS
 AND ELECTRONICS
 HEWLETT-PACKARD CO.
 RADIO AIDS
 S. STERLING COMPANY

CALIBRATION SERVICE, INSTRUMENT

DATA INSTRUMENT DIVISION
 EIDSON ELECTRONIC COMPANY
 ELECTRONICS ESSENTIALS OF CCC
 THE JAMES FLOYD FORD CO
 HEWLETT-PACKARD CO.
 INSTRUMENT LABORATORIES CORP
 S. STERLING COMPANY

CALORIMETERS

RIO ELECTRONIC CORPORATION
 THE ENGLISH ELECTRIC CORP.
 MARCONI INSTRUMENTS
 NARDA MICROWAVE CORPORATION
 RCA BROADCAST PRODS.

CAMERA, MOUNTING EQUIPMENT

AMECO, INC.
 E J BAUGHMAN CO
 BERKEY TECHNICAL CORP
 BIRNS & SAWYER
 HURKE & JAMES

COMU ELECTRONICS
 COLORTAN INDUSTRIES - BERKEY
 HOUSTON FEARLESS CORPORATION
 MOTOROLA COMMUNICATIONS
 POWER-OPTICS INCORPORATED
 RCA BROADCAST PRODS.
 SYLVANIA-COMM. ELECTRONICS DIV
 TELEQUIP CORPORATION
 TELEVISION UTILITIES CORP
 TRAD CORPORATION
 UP-RIGHT SCAFFOLDS
 VISUAL ELECTRONICS CORP

CAMERA, REMOTE

CONTROL EQUIPMENT
 AMECO, INC.
 AMPLIVISION CORPORATION
 COMU ELECTRONICS
 DELTA ELECTRONICS, INC.
 MOTOROLA COMMUNICATIONS
 POWER-OPTICS INCORPORATED
 SYLVANIA-COMM. ELECTRONICS DIV
 TELEQUIP CORPORATION
 TELEVISION UTILITIES CORP
 VISUAL ELECTRONICS CORP

CAMERAS, FILM, CINE

AMECO, INC.
 ARRIFLEX CORP OF AMERICA
 BECKMAN & WHITLEY
 BIRNS & SAWYER
 BLONDER-TONGUE LABORATORIES
 HURKE & JAMES
 EASTMAN KODAK COMPANY
 D. B. MILLIKEN COMPANY
 MINNESOTA MINING - 3 M
 NORTH AMERICAN PHILIPS CO
 PRECISION LABORATORIES
 RCA BROADCAST PRODS.
 TELEVISION UTILITIES CORP
 TRAD CORPORATION
 VISUAL ELECTRONICS CORP

CAMERAS, FILM, STILL

BIRNS & SAWYER
 BLONDER-TONGUE LABORATORIES
 HURKE & JAMES
 EASTMAN KODAK COMPANY
 MINNESOTA MINING - 3 M
 NORTH AMERICAN PHILIPS CO
 PRECISION LABORATORIES

CAMERAS, OSCILLOSCOPE

AMECO, INC.
 BENRUS
 HEWLETT-PACKARD CO.
 D. B. MILLIKEN COMPANY
 THE SINGER CO - METRICS DIV
 TEKTRONIX INC
 TRAD CORPORATION

CAMERAS, TV, COLOR

AMECO, INC.
 AMPEX CORPORATION
 AMPLIVISION CORPORATION
 ASCO SONOCRAFT CORP
 BLONDER-TONGUE LABORATORIES
 COMU ELECTRONICS
 G E VISUAL COMMUNICATIONS PROD
 MARCONI DIVISION
 NORTH AMERICAN PHILIPS CO
 RCA BROADCAST PRODS.
 SARKES-TARZIAN
 VISUAL ELECTRONICS CORP

CAMERAS, TV, MONOCHROME

AMECO, INC.
 AMPEX CORPORATION
 AMPLIVISION CORPORATION
 BLONDER-TONGUE LABORATORIES
 COMU ELECTRONICS
 COLORADO VIDEO
 DAGE BELL CORPORATION
 DIAMOND ELECTRONICS
 DIECRAFT, INC
 G E VISUAL COMMUNICATIONS PROD
 MARCONI DIVISION
 MARYLAND TELECOMMUNICATIONS
 MOTOROLA COMMUNICATIONS
 NORTH AMERICAN PHILIPS CO
 RCA BROADCAST PRODS.
 SARKES-TARZIAN
 SONY CORPORATION OF AMERICA
 SYLVANIA-COMM. ELECTRONICS DIV
 TELEMATION, INC.
 TELEVISION UTILITIES CORP
 THOMSON ELECTRIC CO
 VISUAL ELECTRONICS CORP

CAPACITORS, FIXED, GENERAL

BUD RADIO, INC

CAPACITORS, FIXED, AIR

G E CAPACITOR DEPARTMENT
 GENERAL RADIO CO
 TRW ELECTRONICS

CAPACITORS, FIXED, CERAMIC

AEROVOX CORP.
 AMERICAN ELITE
 CENTRALAB
 CORNELL-DUBILIER ELECTRONICS
 G E CAPACITOR DEPARTMENT
 JENNINGS RADIO MANUFACTURING
 MALLORY DISTRIBUTOR PRODUCTS
 MINNESOTA MINING - 3 M
 SINGER PRODUCTS CO.
 TRW ELECTRONICS

CAPACITORS, FIXED, ELECTROLYTIC

AEROVOX CORP.
 AMERICAN ELITE
 AMPEREX ELECTRONIC CORP
 CORNELL-DUBILIER ELECTRONICS
 GENERAL ELECTRIC CO
 MALLORY DISTRIBUTOR PRODUCTS

OHMITE MANUFACTURING COMPANY
 SINGER PRODUCTS CO.

CAPACITORS, FIXED, FILM

AEROVOX CORP.
 AMERICAN ELITE
 AMPEREX ELECTRONIC CORP
 CORNELL-DUBILIER ELECTRONICS
 DEARBORN ELECTRONICS INC
 GENERAL ELECTRIC CO
 MALLORY DISTRIBUTOR PRODUCTS
 THE NOVA COMPANY
 SINGER PRODUCTS CO.
 TEXAS INSTRUMENTS
 TRW ELECTRONICS

CAPACITORS, FIXED, METALLIZED

AEROVOX CORP.
 ALTEC LANSING
 CENTRALAB
 CORNELL-DUBILIER ELECTRONICS
 DEARBORN ELECTRONICS INC
 THE NOVA COMPANY
 TRW ELECTRONICS

CAPACITORS, FIXED, MICA

AEROVOX CORP.
 ALTEC LANSING
 CORNELL-DUBILIER ELECTRONICS
 G E CAPACITOR DEPARTMENT
 GENERAL RADIO CO
 MINNESOTA MINING - 3 M
 SINGER PRODUCTS CO.

CAPACITORS, FIXED, OIL-FILLED

AEROVOX CORP.
 ALTEC LANSING
 DEARBORN ELECTRONICS INC
 ENGINEERING ASSOCIATES
 G E CAPACITOR DEPARTMENT
 GENERAL ELECTRIC CO
 SINGER PRODUCTS CO.

CAPACITORS, FIXED, PAPER

AEROVOX CORP.
 ALTEC LANSING
 CORNELL-DUBILIER ELECTRONICS
 DEARBORN ELECTRONICS INC
 GENERAL ELECTRIC CO
 SINGER PRODUCTS CO.

CAPACITORS, FIXED, OTHER

AEROVOX CORP.
 ALTEC LANSING
 AMPEREX ELECTRONIC CORP
 COOK ELECTRIC COMPANY
 CORNELL-DUBILIER ELECTRONICS
 DEARBORN ELECTRONICS INC
 G E CAPACITOR DEPARTMENT
 GENERAL ELECTRIC CO
 GENERAL RADIO CO
 JENNINGS RADIO MANUFACTURING
 MALLORY DISTRIBUTOR PRODUCTS

CAPACITORS, VARIABLE

ALTEC LANSING
 AMERICAN ELITE
 BUD RADIO, INC
 CARDWELL CONDENSER CORP
 CENTRALAB
 GENERAL RADIO CO
 JENNINGS RADIO MANUFACTURING
 E F JOHNSON COMPANY
 ROANWELL CORPORATION
 SARKES-TARZIAN
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 BROADCAST ELECTRONICS, INC
 CINE SONIC SOUND
 DISPLAY TECHNOLOGIES INC
 GATES RADIO COMPANY
 INTERNATIONAL GOGO MUSIC
 JOA CARTRIDGE SERVICE
 KRS INSTRUMENTS DIVISION
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 MACKENZIE LABORATORIES
 MAGNETIC MEDIA CORPORATION
 MARATHON PRODUCTS CORP.
 MILES REPRODUCER CO
 MINNESOTA MINING - 3 M
 RCA BROADCAST PRODS.
 REEVES SOUNDCRAFT
 SHURE BROTHERS, INC.
 SINGER PRODUCTS CO.
 SPARTA ELECTRONIC CORPORATION
 TAPECASTER ELECTRONICS
 VIKING OF MINNEAPOLIS
 VISUAL ELECTRONICS CORP

CARTRIDGES, PHONO

THE ASIATIC CORPORATION
 BENJAMIN ELECTRONIC SOUND CORP
 ELECTRO-VOICE INC
 EUPHONICS MARKETING
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 G E DISTRIBUTOR SALES FORCE
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 GRADO LABORATORIES, INC
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 SINGER BROTHERS, INC.
 SINGER PRODUCTS CO
 SONY CORPORATION OF AMERICA
 SPARTA ELECTRONIC CORPORATION

CARTRIDGES, TAPE,
RECORDING SERVICE
 AMPEX CORPORATION
 CINE SONIC SOUND
 MARATHON PRODUCTS CORP.
 ORBIT RADIO

CASES, PORTABLE

ELECTRONIC EQUIPMENT
 ENCLOSURE CORP
 HEWLETT-PACKARD CO.

CATV EQUIPMENT & COMPONENTS -

ALSO SEE OTHER CATEGORIES.

AMECO, INC.
 AMERICAN CABLE ELECTRONICS
 AMERICAN ELECTRONIC LABS
 AMPLIVISION CORPORATION
 ANACONDA ASTRODATA CO
 BALL BROTHERS RESEARCH
 BENCO TELEVISION ASSOCIATES
 BLONDER-TONGUE LABORATORIES
 C-COR ELECTRONICS
 COMU ELECTRONICS
 ELECTROLINE TV EQUIPMENT INC.
 ENTRON INC
 JERROLD ELECTRONICS CORP
 KAISER-COX
 PRUZAN COMPANY
 SIGMA INDUSTRIES
 SPENCER-KENNEDY LABORATORIES
 TAPE-ATHON CORPORATION
 TELEMATION, INC.
 TELEQUIP CORPORATION
 TELEVISION UTILITIES CORP
 TRW ELECTRONICS
 UTILITY TOWER CO.

CATV, CABLE TERMINALS

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 AMERICAN PAMCO, INC
 ANACONDA ASTRODATA CO
 BENCO TELEVISION ASSOCIATES
 ENTRON INC
 JERROLD ELECTRONICS CORP
 KAISER-COX
 SIGMA INDUSTRIES
 SUPERIOR CABLE CORPORATION
 TELEMET COMPANY
 TELEQUIP CORPORATION
 TELEUIP PRODUCTS CO.

CATV, CHANNEL AMPLIFIERS

AMECO, INC.
 AMERICAN ELECTRONIC LABS
 AMPLIVISION CORPORATION
 ANACONDA ASTRODATA CO
 KEITH ANDERSON CO
 BENCO TELEVISION ASSOCIATES
 BLONDER-TONGUE LABORATORIES
 C-COR ELECTRONICS
 ENTRON INC
 JERROLD ELECTRONICS CORP
 KAISER-COX
 SPENCER-KENNEDY LABORATORIES
 TELESIS CORPORATION

CATV, HEAD-END EQUIPMENT

AMECO, INC.
 AMERICAN ELECTRONIC LABS
 AMPLIVISION CORPORATION
 ANACONDA ASTRODATA CO
 KEITH ANDERSON CO
 BENCO TELEVISION ASSOCIATES
 BLONDER-TONGUE LABORATORIES
 C-COR ELECTRONICS
 DYNAIR ELECTRONICS, INC.
 ENTRON INC
 INTERNATIONAL GOOD MUSIC
 JERROLD ELECTRONICS CORP
 KAISER-COX
 ROMN MANUFACTURING CO.
 SPENCER-KENNEDY LABORATORIES
 TELEMET COMPANY
 TELESIS CORPORATION
 TELEVISION UTILITIES CORP

CATV, ORIENTATION EQUIPMENT

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 AMERICAN CABLE ELECTRONICS
 AMERICAN ELECTRONIC LABS
 AMPEX CORPORATION
 AMPLIVISION CORPORATION
 BLONDER-TONGUE LABORATORIES
 CATEL COMPANY
 CENTRAL DYNAMICS CORPORATION
 COMU ELECTRONICS
 JERROLD ELECTRONICS CORP
 KAISER-COX
 TELEMATION, INC.
 TELEQUIP CORPORATION
 TELESIS CORPORATION
 TELEVISION UTILITIES CORP

CAVITIES, MICROWAVE

AMPEREX ELECTRONIC CORP
 DEMORNAY - BONAROI DIVISION
 MICROBAR / FXR
 MICRO-LINK SYSTEMS/VARIAN ASSO
 MICROWAVE ASSOCIATES, INC.
 NAROA MICROWAVE CORPORATION
 RCA ELECTRONIC COMPONENTS

CHARGERS, BATTERY

AMPHENOL DISTRIBUTOR DIVISION
 BIRNS & SAWYER
 COLORTAN INDUSTRIES - BERKEY
 G C ELECTRONICS COMPANY
 GENERAL ELECTRIC CO
 IMPEX ELECTRONICS CORP
 ONAN DIVISION
 SINGER PRODUCTS CO

CHASSIS - SEE HARDWARE

CHOKES, WAVEGUIDE
 OENORNAY - BONAROI DIVISION
 MICRO-LINK SYSTEMS/VARIAN ASSO
 MICROWAVE ASSOCIATES, INC.
 NAROA MICROWAVE CORPORATION
 PAINTON INCORPORATED

CHOPPERS
 OAK MANUFACTURING CO
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 G C ELECTRONICS COMPANY
 G E INDUSTRIAL SALES OPERATION
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 TOWNSENO ASSOCIATES
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 BIRNBACH CO
 OIAMOND EXPANSION BOLT CO INC
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 THE THOMAS & BETTS CO
 WECKESSER COMPANY, INC.

CLAMPS, COMPONENT
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 TELEMFT COMPANY
 THF THOMAS & BETTS CO

CLAMPS, GROUND
 AMECO, INC.
 THE THOMAS & BETTS CO

CLAMPS, TUBE
 THE THOMAS & BETTS CO

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 G C ELECTRONICS COMPANY
 J W GIBSON CO, INC

CLEANERS, LENS
 DUOTONE COMPANY INC
 THE TEXWIPE COMPANY

CLEANERS, OTHER -
 ALSO SEE SOLVENTS
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 G C ELECTRONICS COMPANY
 NEUMAD PRODUCTS CORPORATION
 THE TEXWIPE COMPANY

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 BARKER & WILLIAMSON
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 PERMOFLUX CORPORATION
 TRW ELECTRONICS
 UNITED TRANSFORMER COMPANY

COILS, CHOKE, RF
 ALTEC LANSING
 BARKER & WILLIAMSON
 CALBEST ELECTRONICS
 CCA ELECTRONICS CORPORATION
 O & B ELECTRONICS COMPANY
 GATES RADIO COMPANY
 E F JOHNSON COMPANY
 TRW ELECTRONICS

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 DEFLECTION COMPONENTS DIV
 CONRAC
 LAKE ELECTRONICS, INC.
 SINGER PRODUCTS CO.
 TELEQUIP CORPORATION
 TRW ELECTRONICS

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 G E ELECTRONICS COMPANY

COILS, HYBRID
 ADC PRODUCTS
 ALTEC LANSING
 RCA BROADCAST PRODS.
 UNITED TRANSFORMER COMPANY

COILS, TELEPHONE
 ADC PRODUCTS
 ALTEC LANSING
 RCA BROADCAST PRODS.
 SINGER PRODUCTS CO.
 UNITED TRANSFORMER COMPANY

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 AMPHENOL DISTRIBUTOR DIVISION
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 F F JOHNSON COMPANY
 MILES REPRODUCER CO
 MOSELEY ASSOCIATES INC.
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 UTICA CORPORATION

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 AMERICAN GLOSO ELECTRONICS
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 RCA BROADCAST PRODS.
 SOUTHWESTERN COMMUNICATIONS
 ULTRA AUDIO PRODUCTS
 VISUAL ELECTRONICS CORP
 WARD ELECTRONIC INDUSTRIES

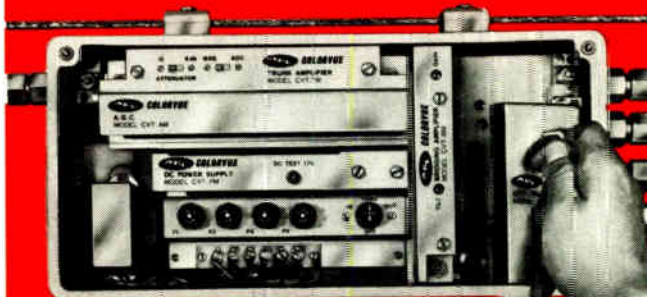
COMMUNICATIONS SYSTEMS, INTERCOM, WIRELESS
 ASCO SONOCRAFT CORP
 DELTA ELECTRONICS, INC.
 F & M SYSTEMS COMPANY
 FISHER BERKELEY CORPORATION
 THE JAMES FLOYD FORD CO
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 E F JOHNSON COMPANY
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 JERROLO ELECTRONICS CORP
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 MOSELEY ASSOCIATES INC.
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 SARKES-TARZIAN
 STAINLESS, INC.

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 RHG ELECTRONICS LABORATORY
 SINGER PRODUCTS CO.
 TOWNSENO ASSOCIATES

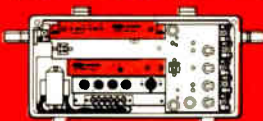
FULL COLOR FIDELITY WITH **COLORVUE** SOLID-STATE CATV TRUNK-LINE AMPLIFIERS



**HIGH OUTPUT • HIGH GAIN
 LOW NOISE • FLAT RESPONSE
 TRUE PLUG-IN MODULARITY**

Looking for high-grade color distribution, plus easy field maintenance and low inventory costs? Then see COLORVUE... the solid-state amplifier with the 48dbmv output and 26db operating gain over all 12 channels, low noise figure and VSWR, ± 0.25 db response flatness and 5C to 220MHz, bandwidth.

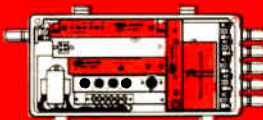
And it's truly modular! Just one basic housing and five individual units that plug in—in the field—in seconds and with 1 to 4 feeder lines.



Basic housing with Trunk Amplifier / DC Power Supply (2 modules).



Basic housing with Trunk Amplifier / AGC / DC Power Supply (3 modules).



Basic housing with Trunk Amplifier / Bridging Amplifier / Off-Trunk Splitter / DC Power Supply (4 modules).



Basic housing with Trunk Amplifier / AGC / Bridging Amplifier / Off-Trunk Splitter / DC Power Supply (5 modules).

Yes, COLORVUE is great... the result of AEL's exceptional capabilities. Want to know more? Drop us a line or call us at 215/822-2929.



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HANCOCK TELECONTROL
HARVEY RADIO CO, INC.
HEATH CO
MINNESOTA MINING - 3 M
SARKES-TARZIAN
S. STERLING COMPANY

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ACME VISIBLE RECORDS
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ITT CANNON ELECTRIC
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TROMPETER ELECTRONICS

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ITT CANNON ELECTRIC
JERROLD ELECTRONICS CORP
PHELPS DODGE
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WABER ELECTRONICS, INC.

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JERROLD ELECTRONICS CORP
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NARDA MICROWAVE CORPORATION
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THE THOMAS & BETTS CO
TIMES WIRE AND CABLE
TROMPETER ELECTRONICS
VITRO ELECTRONICS

CONSOLE, AUDIO, AM

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BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION

COLLINS RADIO COMPANY
CROWN INTERNATIONAL
FAIRCHILD RECORDING EQUIPMENT
G E VISUAL COMMUNICATIONS PROD
GOTHAM AUDIO CORPORATION
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IMPEX ELECTRONICS CORP
MID AMERICA ELECTRONICS CORP
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STEPHENS ELECTRONICS
TELETRONIX
UNITED RADIO SUPPLY, INC
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

CONSOLE, AUDIO, FM

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BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
FAIRCHILD RECORDING EQUIPMENT
GATES RADIO COMPANY
GOTHAM AUDIO CORPORATION
HARVEY RADIO CO, INC.
HOUSTON ELECTRONICS CO.
IMPEX ELECTRONICS CORP
LITTLE JOE ENTERPRISES
MID AMERICA ELECTRONICS CORP
ORBIT RADIO
RCA BROADCAST PRODS.
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SPARTA ELECTRONIC CORPORATION
STANDARD ELECTRONICS CORP.
STEPHENS ELECTRONICS
TELETRONIX
ULTRA AUDIO PRODUCTS
VISUAL ELECTRONICS CORP
WARD ELECTRONIC INDUSTRIES
WILKINSON ELECTRONICS, INC

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BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
DATA INSTRUMENT DIVISION
DELTA ELECTRONICS, INC.
GATES RADIO COMPANY
G E VISUAL COMMUNICATIONS PROD
GOTHAM AUDIO CORPORATION
HARVEY RADIO CO, INC.
HOUSTON ELECTRONICS CO.
IMPEX ELECTRONICS CORP
LANG ELECTRONICS, INC
LITTLE JOE ENTERPRISES
MID AMERICA ELECTRONICS CORP
NORTH AMERICAN PHILIPS CO
ORBIT RADIO
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
SOUTHWESTERN COMMUNICATIONS
SPARTA ELECTRONIC CORPORATION
STEPHENS ELECTRONICS
STEPHENS ELECTRONICS
TELETRONIX
ULTRA AUDIO PRODUCTS
VISUAL ELECTRONICS CORP
WARD ELECTRONIC INDUSTRIES

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AMPEX CORPORATION
ANCHA ELECTRONICS
ASCO SONOCRAFT CORP
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
DATA INSTRUMENT DIVISION
FAIRCHILD RECORDING EQUIPMENT
GATES RADIO COMPANY
G E VISUAL COMMUNICATIONS PROD
GOTHAM AUDIO CORPORATION
HARVEY RADIO CO, INC.
HOUSTON ELECTRONICS CO.
IMPEX ELECTRONICS CORP
LANG ELECTRONICS, INC
LITTLE JOE ENTERPRISES
MID AMERICA ELECTRONICS CORP
NORTH AMERICAN PHILIPS CO
ORBIT RADIO
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
SOUTHWESTERN COMMUNICATIONS
SPARTA ELECTRONIC CORPORATION
STEPHENS ELECTRONICS
TELETRONIX
ULTRA AUDIO PRODUCTS
UNITED RADIO SUPPLY, INC
VISUAL ELECTRONICS CORP
WARD ELECTRONIC INDUSTRIES
WILKINSON ELECTRONICS, INC

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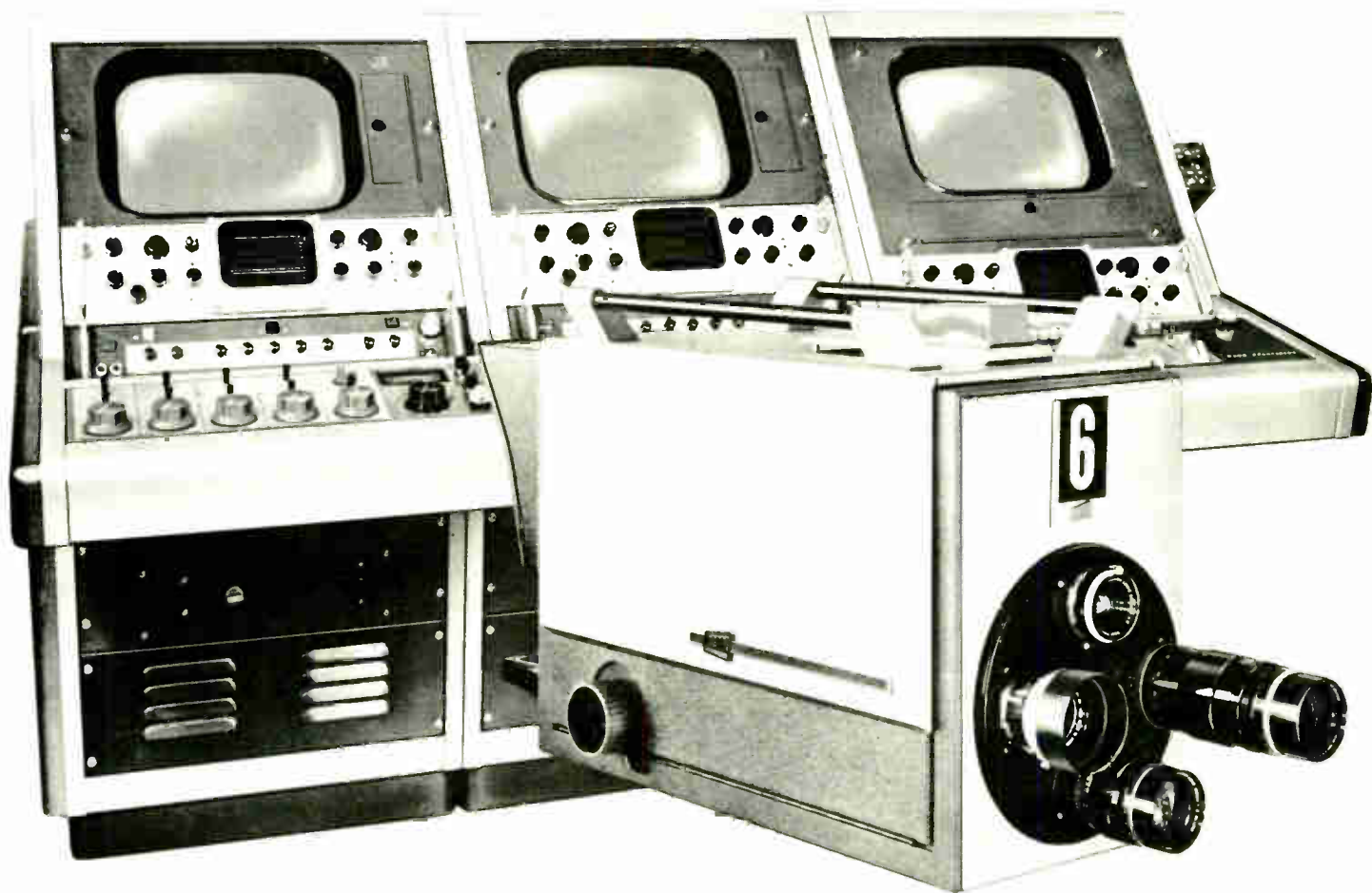
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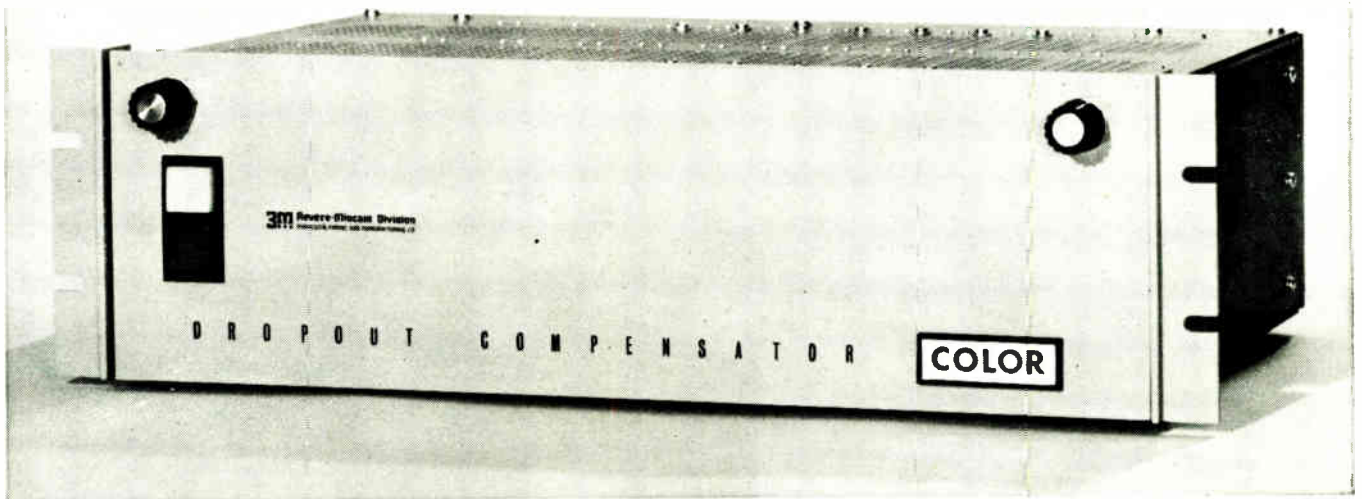
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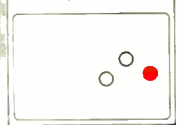
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VIDEON CORPORATION
VISUAL ELECTRONICS CORP

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VIDEON CORPORATION
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WAVEFORMS, INCORPORATED
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BLONDER-TONGUE LABORATORIES
CENTRAL DYNAMICS CORPORATION
COMU ELECTRONICS
COLORADO VIDEO
DAGE BELL CORPORATION
G E VISUAL COMMUNICATIONS PROD
LAKE ELECTRONICS, INC.
MARCONI DIVISION
MARYLAND TELECOMMUNICATIONS
RCA BROADCAST PRODS.
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SARKES-TARZIAN
SYLVANIA-COMM. ELECTRONICS DIV
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TELEMET COMPANY
TELEQUIP CORPORATION
VIDEON CORPORATION
VISUAL ELECTRONICS CORP

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CENTRAL DYNAMICS CORPORATION
RIKER VIDEO INDUSTRIES
TELEMET COMPANY
TELEQUIP CORPORATION
VIDEON CORPORATION
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GROMMETS - SEE HARDWARE

HARDWARE, CHASSIS
BUD RADIO, INC
O & B ELECTRONICS COMPANY
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G C ELECTRONICS COMPANY
TELEQUIP CORPORATION
VENT-RAK INCORPORATED

HARDWARE, DIAL POINTERS
G C ELECTRONICS COMPANY
TELEQUIP CORPORATION

HARDWARE, FIXTURES, HOLDING
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AMECO, INC.
BIRNBACH CO
ELECTROVERT, INCORPORATED
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ROBINS INDUSTRIES CORP.
SWITCHCRAFT, INC.
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HARDWARE, GROMMETS
BIRNBACH CO
ELECTROVERT, INCORPORATED
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY

HARDWARE, LOUVERS, VENTILATING
BUD RADIO, INC

HARDWARE, MOUNTS
ADVANCE INDUSTRIES
BUD RADIO, INC
ELECTRONICS ESSENTIALS OF CCC
ROBINS INDUSTRIES CORP.
TELEQUIP CORPORATION
H. WILSON CORPORATION

HARDWARE, PANEL
BUD RADIO, INC
COOK ELECTRIC COMPANY
E F JOHNSON COMPANY
TELEQUIP CORPORATION
VITRO ELECTRONICS

HARDWARE, RACK
BIRNBACH CO
BUD RADIO, INC
COOK ELECTRIC COMPANY
ELECTRONICS ESSENTIALS OF CCC
GATES RADIO COMPANY
G C ELECTRONICS COMPANY
MCMARTIN INDUSTRIES
SARKES-TARZIAN
TELEQUIP CORPORATION
VITRO ELECTRONICS

HARDWARE, RETAINING RINGS
CRAFTSMAN ELECTRONICS PRODUCTS

HARDWARE, TOOLS - SEE TOOLS
AMECO, INC.
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
H. K. PORTER INC.
SINGER PRODUCTS CO.
THE THOMAS & BETTS CO
UPSON BROS.
XCELITE INCORPORATED

HARDWARE, TUBING, METAL
ELECTRONICS ESSENTIALS OF CCC

HARDWARE, TUBING, PLASTIC
BIRNBACH CO
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
MINNESOTA MINING - 3 M
SIGMA INDUSTRIES

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SEE CATV HEAD-END EQUIPMENT
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AMPLIVISION CORPORATION
ANACONDA ASTRODATA CO
BENCO TELEVISION ASSOCIATES
BLONDER-TONGUE LABORATORIES
C-COR ELECTRONICS
DYNAIR ELECTRONICS, INC.
ENTRON INC
JERROLD ELECTRONICS CORP
KAISER-COX
ROHN MANUFACTURING CO.
SPENCER-KENNEDY LABORATORIES

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AUDIO DEVICES
FAIRCHILD RECORDING EQUIPMENT
GOTHAM AUDIO CORPORATION
KOSS ELECTRONICS, INC.
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HEADS, ERASE, MAGNETIC
AMPEX CORPORATION
BROADCAST ELECTRONICS, INC
FAIRCHILD RECORDING EQUIPMENT
JOA CARTRIDGE SERVICE
LIPPS, INC.
MAGNA-TECH CORPORATION
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RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
SCULLY RECORDING INSTRUMENTS
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SONY CORPORATION OF AMERICA
TELECTRO INDUSTRIES CORP
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BROADCAST ELECTRONICS, INC
FAIRCHILD RECORDING EQUIPMENT
JOA CARTRIDGE SERVICE
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MAGNA-TECH CORPORATION
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SONY CORPORATION OF AMERICA

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BIRNBACH CO
DELCO RADIO DIV
EIMAC DIVISION OF VARIAN
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INTERNATIONAL RECTIFIER
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MICROLAB
MICROWAVE ASSOCIATES, INC.

HOLDERS, FUSE
G C ELECTRONICS COMPANY
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LAKE ELECTRONICS, INC.
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MARYLAND TELECOMMUNICATIONS
MJRTEL ELECTRONICS, INC
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RCA BROADCAST PRODS.
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SETCHELL CARLSON INCORPORATED
SONY CORPORATION OF AMERICA
S + STERLING COMPANY
SYLVANIA-COMM. ELECTRONICS DIV
TELEMET COMPANY
TELEQUIP CORPORATION
TELEVISION UTILITIES CORP

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BIRNBACH CO
CENTRALAB
G C ELECTRONICS COMPANY
L F JOHNSON COMPANY
UNITED STATES PLASTIC ROPE

INSULATORS, FEED THROUGH
BIRNBACH CO
CENTRALAB
G C ELECTRONICS COMPANY
E F JOHNSON COMPANY

INSULATORS, STAND-OFF
ANTENNA PRODUCTS COMPANY
BIRNBACH CO
CENTRALAB
G C ELECTRONICS COMPANY
E F JOHNSON COMPANY

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G C ELECTRONICS COMPANY
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TEXAS INSTRUMENTS
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TREPAC CORPORATION OF AMERICA
TROMPETER ELECTRONICS
VISUAL ELECTRONICS CORP
VITRO ELECTRONICS

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TROMPETER ELECTRONICS
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VITRO ELECTRONICS

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ANDREW CORPORATION
GENERAL RADIO CO
MICRO-LINK SYSTEMS/VARIAN ASSO
SCIENTIFIC-ATLANTA

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WABER ELECTRONICS, INC.

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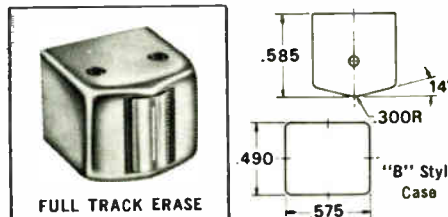
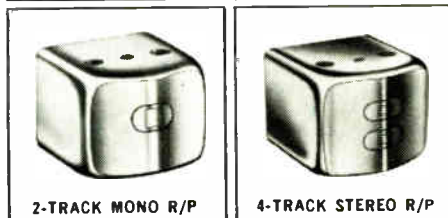
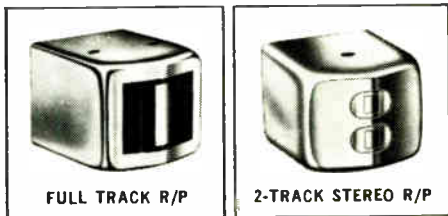
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FOR PROFESSIONAL REEL-TO-REEL MACHINES



Head Mounting Brackets for Professional Machines



QK-76 with Nortronics Head

QK-76 contains all hardware and illustrated instructions necessary to adapt a Nortronics head to the shield cup of an Ampex head nest. Includes: precision cast aluminum block; spacers; screws; connector plug—all other parts necessary are utilized from the original Ampex equipment... Net Each **\$12.00**

QK-35 is a special base-mount bracket kit for adapting Nortronics no-mount heads for replacement of Brush heads, or in any application requiring a large base-mounting stud. (Stud is 1/4" - 28 x 5/8") Net Each **\$2.00**

FOR CARTRIDGE MACHINES



YOUR LOCAL DISTRIBUTOR STOCKS THE FULL LINE OF NORTRONICS TAPE HEADS AND ACCESSORIES

QUICK-KITS (Head Mounting Assemblies)—Tape Guides—Alignment Tape—Connector Assemblies—Bias Oscillator Transformers—Replacement Heads for over 1500 models ... Consult your distributor for full information.

Manufacturer and Model Numbers	Original Function	Nortronics Head + Quik-Kit	Net, † Less Quik-Kit	
AMPEX 300, 350, 354, 400 Series NOTE: On PR-10, 600, 900 and 1200 Series, use QK-66 instead of QK-76.	Record, Full Track	8001 + 76	\$36.00	
	Play, Full Track	8000 + 76	36.00	
	Erase, Full Track (for all but 380 series)	8109 + 76	30.00	
	Erase, Full Track (for 300 series only)	8106 + 76	30.00	
	Record Mono, 2-Track	8401 + 76	22.00	
	Play Mono, 2-Track	8400 + 76	22.00	
	Erase Mono, 2-Track	8504 + 76	18.00	
	Record Stereo, 2-Track	8201 + 76	32.00	
	Play Stereo, 2-Track	8200 + 76	32.00	
	Erase Stereo, 2-Track	8304 + 76	26.00	
3200	Record Stereo, 4-Track	8604 + 76	30.00	
	Play Stereo, 4-Track	8600 + 76	30.00	
	Erase Stereo, 4-Track	8701 + 76	26.00	
	Record, Full Track	8004 + 76	40.00	
	Play, Full Track	8008 + 76	36.00	
	Record Stereo, 2-Track	8214 + 76	32.00	
	Play Stereo, 2-Track	8210 + 76	32.00	
	Record Stereo, 4-Track	8614 + 76	30.00	
	Play Stereo, 4-Track	8610 + 76	30.00	
	Record Mono, 2-Track	8414 + 76	22.00	
Play Mono, 2-Track	8402 + 76	22.00		
CROWN 701, 801, BX801, 1001, 1401	Play only or Record/Play, Full Track	8006 + 35	36.00	
	Record, Full Track	8001 + 35	36.00	
	Erase, Full Track	8102 + 35	30.00	
	Play only or Record/Play Stereo, 2-Track	8209 + 35	32.00	
	Record Stereo, 2-Track	8201 + 35	32.00	
	Erase Stereo, 2-Track	8304 + 38	26.00	
	712, 822, BX822, 1022, 1422/8	Play only or Record/Play Mono, 2-Track	8403 + 35	22.00
		Record Mono, 2-Track	8404 + 35	22.00
		Erase Mono, 2-Track	8504 + 38	18.00
	702, 802, BX802, 1002, 1402/8	Play only Mono, 2-Track	8406 + 66	22.00
Play only Stereo, 4-Track		8608 + 66	30.00	
A51, A314	Play only or Record/Play Stereo, 4-Track	8608 + 66	30.00	
	Record Stereo, 4-Track	8608 + 66	30.00	
	Erase Stereo, 4-Track	8701 + 38	26.00	
A54, A324	Record, Full Track	8005 *	40.00	
	Play Mono, 2-Track	8408 *	22.00	
	Erase, Full Track	8102 *	30.00	
*No QK required	Play, Full Track (Optional)	8006 *	36.00	
	Record Stereo, 2-Track	8203 *	35.00	
	Play Stereo, 2-Track	8202 *	35.00	
1022 *No QK required	Erase Stereo, 2-Track	8302 *	26.00	
	Record Stereo, 4-Track	8602 *	30.00	
	Play Stereo, 4-Track	8607 *	30.00	
1024 *No QK required	Erase Stereo, 4-Track	8702 *	26.00	
	Record, Full Track	8001 + 35	36.00	
	Play, Full Track	8000 + 35	36.00	
P60, P75, M90 *No QK required	Erase, Full Track	8105 + 35	30.00	
	Record, Full Track	8002 *	68.00	
	Play, Full Track	8003 *	54.00	
R.C.A. RT21 *No QK required	Erase, Full Track	8110 *	68.00	
	Record Stereo, 2-Track	8206 *	42.00	
	Play Stereo, 2-Track	8205 *	54.00	
*No QK required	Erase Stereo, 2-Track	8307 *	48.00	

NO-MOUNT and REAR-MOUNT HEADS FOR ATC, Collins, Gates, KRS, Macarta, RCA, Sparta, Tapecaster

FOR REPLACEMENT OR NAB CONVERSION. FULL LISTINGS IN NORTRONICS BULLETIN 7230A. SEND FOR YOUR COPY.

No-Mount Head Bracket Assembly for Cartridge Machines

QK-114 installs two no-mount dual channel heads for monophonic use, or two no-mount three channel heads for stereo operation. Left head is for recording; right head for playback. Requires heads similar to 2000 Series. Completely assembled and semi-aligned Net Each **\$13.60**

QK-115 installs two no-mount monophonic 2-track heads (see monitor conversion information below). Requires heads similar to 3000 Series. Completely assembled and semi-aligned Net Each **\$13.60**

BOTH QK-114 AND QK-115 FURNISHED WITH CARTRIDGE HOLD-DOWN SPRING AND CARTRIDGE GUIDE RAIL.

NAB CONVERSION TO MONITOR—As all professional users of tape equipment know, superior results can be achieved by using a special record-only head plus a separate playback head. Professionals also appreciate the ability to be able to monitor a tape as it is being recorded. Nortronics offers a conversion to monitor operation to update cartridge machines.

NORTRONICS COMPANY, INC.

8101 Tenth Avenue North • Minneapolis, Minnesota 55427 • Phone: (612) 545-0401

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FAIRCHILD RECORDING EQUIPMENT
GOTHAM AUDIO CORPORATION
KOSS ELECTRONICS, INC.
SCULLY RECORDING INSTRUMENTS
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SOUTHWESTERN COMMUNICATIONS

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G C ELECTRONICS COMPANY

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ZOLOMATICS CORPORATION
ZOOMAR, INC.

LENSES, OPTICAL, ZOOM

ALBION OPTICAL COMPANY
AMECO, INC.
AMPX CORPORATION
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BURKE & JAMES
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MOLE-RICHAROSON CO.
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TELEQUIP CORPORATION
TELEVISION UTILITIES CORP
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LIGHTS, TOWER, OBSTRUCTION

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JOA CARTRIDGE SERVICE

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EITEL ELECTRONICS
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ORBIT RADIO
RCA SERVICE COMPANY
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EITEL ELECTRONICS
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STEEPLE JACK

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DRESSER CRANE HOIST & TOWER
EITEL ELECTRONICS
THE JAMES FLOYD FORO CO
RCA SERVICE COMPANY
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STANOARO ELECTRONICS CORP
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RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
TRIPLETT ELECTRICAL INSTRUMENT
YOKOGAWA ELECTRIC WORKS

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ALTEC LANSING
C B S LABORATORIES
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YOKOGAWA ELECTRIC WORKS

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AMPLIFIER CORP OF AMERICA
GOTHAM AUDIO CORPORATION
MCOM, INC

METERS, FREQUENCY

BELAR ELECTRONICS LABORATORY
BLONDER-TONGUE LABORATORIES
ENGINEERING ASSOCIATES
GENERAL RADIO CO
HEWLETT-PACKARD CO.

HICKOK ELECTRICAL INSTRUMENT
LAMPKIN LABORATORIES INC
MCMARTIN INDUSTRIES
MICROLAB / FXR
NAROA MICROWAVE CORPORATION
RCA BROADCAST PRODS.
RHOHE & SCHWARZ SALES CO. -USA
THE SINGER CO - METRICS OIV
WATERS MANUFACTURING
WAVEFORMS, INCORPORATED
YOKOGAWA ELECTRIC WORKS

METERS, FREQUENCY CALIBRATING

ENGINEERING ASSOCIATES
GENERAL RADIO CO
HEWLETT-PACKARD CO.
MICROLAB / FXR
NAROA MICROWAVE CORPORATION
RHOHE & SCHWARZ SALES CO. -USA
TV CABLE SUPPLY CO

METERS, LIGHT

BURKE & JAMES
ELECTRONIC SYSTEM ENGINEERING
GAMMA SCIENTIFIC, INC.
G E SUPPLY COMPANY
YOKOGAWA ELECTRIC WORKS
ZOOMAR, INC.

METERS, PHASE ANGLE

ENGINEERING ASSOCIATES
GENERAL ELECTRIC CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
RHOHE & SCHWARZ SALES CO. -USA
THE SINGER CO - METRICS OIV
YOKOGAWA ELECTRIC WORKS

METERS, POWER

BIRD ELECTRONIC CORPORATION
CCA ELECTRONICS CORPORATION
ENGINEERING ASSOCIATES
GENERAL MICROWAVE CORPORATION
HEWLETT-PACKARD CO.
MARCONI INSTRUMENTS
NAROA MICROWAVE CORPORATION
RHOHE & SCHWARZ SALES CO. -USA
THE SINGER CO - METRICS OIV
YOKOGAWA ELECTRIC WORKS

METERS, STANDING WAVE

BIRD ELECTRONIC CORPORATION
DELTA ELECTRONICS INC
OEMORNAV - BONAROI DIVISION
ENGINEERING ASSOCIATES
GENERAL MICROWAVE CORPORATION
HEWLETT-PACKARD CO.
NAROA MICROWAVE CORPORATION
RHOHE & SCHWARZ SALES CO. -USA
STANOARO ELECTRONICS CORP .
THE TECHNICAL MATERIEL CORP

METERS - SEE SPECIFIC TYPE

API INSTRUMENTS CO.
COHU ELECTRONICS
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
LAMPKIN LABORATORIES INC
MCMARTIN INDUSTRIES
THE SINGER CO - METRICS OIV

MICROPHONE STANDS & BOOMS

ALTEC LANSING
AMERICAN GELOSO ELECTRONICS
THE ASTATIC CORPORATION
E J BAUGHMAN CO
CENTURY LIGHTING, INC.
G C ELECTRONICS COMPANY
GOTHAM AUDIO CORPORATION
HOUSTON FEARLESS CORPORATION
MOLE-RICHAROSON CO.
NORTH AMERICAN PHILIPS CO
RCA BROADCAST PRODS.
RCA ELECTRONIC COMPONENTS
SHURE BROTHERS, INC.
SINGER PRODUCTS CO.
SYLVANIA-COMM. ELECTRONICS OIV
TELEVISION UTILITIES CORP
TURNER MICROPHONE CO
VISUAL ELECTRONICS CORP

MICROPHONES, CONDENSER

ALTEC LANSING
AMERICAN ELITE
GOTHAM AUDIO CORPORATION
NORTH AMERICAN PHILIPS CO
RCA ELECTRONIC COMPONENTS
SINGER PRODUCTS CO.
SONY CORPORATION OF AMERICA
SPARTA ELECTRONIC CORPORATION
SYNCRON CORPORATION
TRUSONIC
VEGA ELECTRONICS CORPORATION
VISUAL ELECTRONICS CORP

MICROPHONES, DYNAMIC

ALTEC LANSING
AMERICAN ELITE
AMERICAN GELOSO ELECTRONICS

AMPX CORPORATION
THE ASTATIC CORPORATION
CALIFONE/ROBERTS
ELECTRO-VOICE INC
GATES RADIO COMPANY
G C ELECTRONICS COMPANY
MCMARTIN INDUSTRIES
MILES REPRODUCER CO
NORTH AMERICAN PHILIPS CO
PERMOFLUX CORPORATION
RCA BROADCAST PRODS.
RCA ELECTRONIC COMPONENTS
ROBINS INDUSTRIES CORP.
SHURE BROTHERS, INC.
SINGER PRODUCTS CO
SONY CORPORATION OF AMERICA
SPARTA ELECTRONIC CORPORATION
SYLVANIA-COMM. ELECTRONICS OIV
TURNER MICROPHONE CO
VISUAL ELECTRONICS CORP

MICROPHONES, VELOCITY

RCA BROADCAST PRODS.
RCA ELECTRONIC COMPONENTS
SINGER PRODUCTS CO.
VISUAL ELECTRONICS CORP

MICROPHONES, WIRELESS

AMERICAN GELOSO ELECTRONICS
MILES REPRODUCER CO
SINGER PRODUCTS CO
SONY CORPORATION OF AMERICA
SPARTA ELECTRONIC CORPORATION
TRUSONIC
VEGA ELECTRONICS CORPORATION
VISUAL ELECTRONICS CORP

MICROWAVE COMPONENTS

ALFORD MANUFACTURING COMPANY
AMECO, INC.
AMERICAN ELITE
AMPREX ELECTRONIC CORP
ANDREW CORPORATION
BIRD ELECTRONIC CORPORATION
CAROWELL CONDENSER CORP
OEMORNAV - BONAROI DIVISION
EIMAC DIVISION OF VARIAN
ENGINEERING ASSOCIATES
ELECTRONICS ESSENTIALS OF CCC
GENERAL ELECTRIC CO
GENERAL RADIO CO
HEWLETT-PACKARD CO.
JERROLO ELECTRONICS CORP
LITTON EDUCATIONAL TELE OIV
MICROLAB / FXR
MICRO-LINK SYSTEMS/VARIAN ASSO
MICROWAVE ASSOCIATES, INC.
MOTOROLA SEMICONDUCTOR
NAROA MICROWAVE CORPORATION
PHELPS OODCO
PRODELIN, INCORPORATED
RAYTHEON CO EQUIPMENT DIVISION
RCA BROADCAST PRODS.
RHG ELECTRONICS LABORATORY
RHOHE & SCHWARZ SALES CO. -USA
SCIENTIFIC-ATLANTA
SOLITRON DEVICES
SYLVANIA-SEMICONDUCTOR OIV.
TEXAS INSTRUMENTS

MICROWAVE SYSTEMS, STL

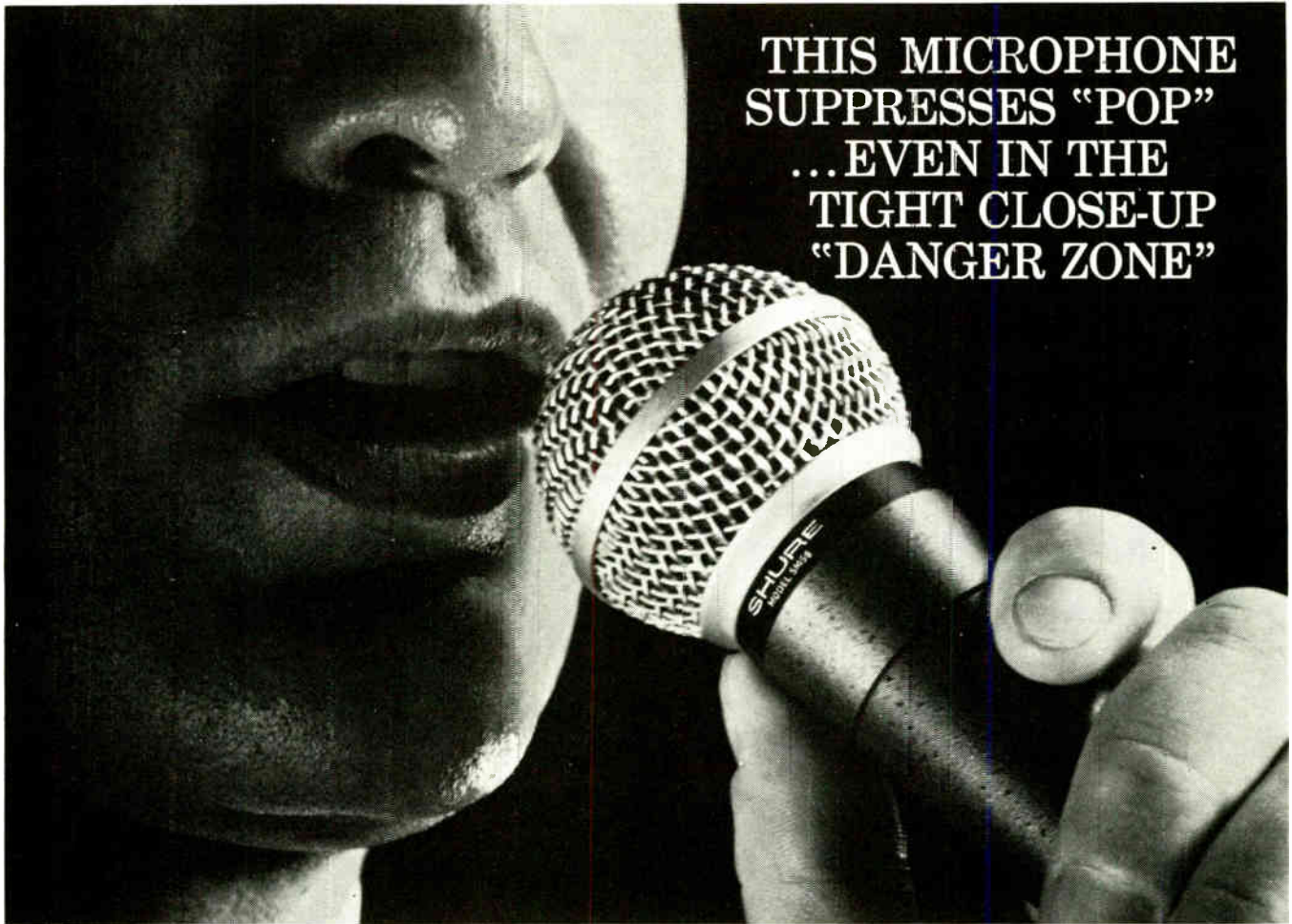
AMECO, INC.
COLLINS RADIO COMPANY
OEMORNAV - BONAROI DIVISION
F & M SYSTEMS COMPANY
JERROLO ELECTRONICS CORP
LENKURT ELECTRIC CO., INC.
LITTON EDUCATIONAL TELE OIV
MARTI ELECTRONICS
MICROLAB / FXR
MICRO-LINK SYSTEMS/VARIAN ASSO
MICROWAVE ASSOCIATES, INC.
MOSELEY ASSOCIATES INC.
PRODELIN, INCORPORATED
RAYTHEON CO EQUIPMENT DIVISION
RCA BROADCAST PRODS.
RHG ELECTRONICS LABORATORY
SARKES-TARZIAN
SINGER PRODUCTS CO
TELETRONIX
VISUAL ELECTRONICS CORP

MICROWAVE SYSTEMS, 2500 MHZ

AMERICAN ELITE
OEMORNAV - BONAROI DIVISION
EMCEE
F & M SYSTEMS COMPANY
ITT TELECOMMUNICATIONS
JERROLO ELECTRONICS CORP
LITTON EDUCATIONAL TELE OIV
MICROLAB / FXR
MICRO-LINK SYSTEMS/VARIAN ASSO
PRODELIN, INCORPORATED
RAYTHEON CO EQUIPMENT DIVISION
RCA BROADCAST PRODS.
RHG ELECTRONICS LABORATORY

MICROWAVE SYSTEMS, OTHER

CAROWELL CONDENSER CORP
EMCEE
F & M SYSTEMS COMPANY
JERROLO ELECTRONICS CORP
MICROLAB / FXR
MICRO-LINK SYSTEMS/VARIAN ASSO
MICROWAVE ASSOCIATES, INC.
NAROA MICROWAVE CORPORATION
RAYTHEON CO EQUIPMENT DIVISION
RCA BROADCAST PRODS.
RHG ELECTRONICS LABORATORY
METERS - ALSO SEE CONDENSER
AMERICAN GELOSO ELECTRONICS
BAUER ELECTRONICS CORPORATION
BIRNS & SAWYER
BLONDER-TONGUE LABORATORIES
CENTRAL DYNAMICS CORPORATION



**THIS MICROPHONE
SUPPRESSES "POP"
...EVEN IN THE
TIGHT CLOSE-UP
"DANGER ZONE"**

The Shure SM58 *self-windscreened* unidirectional microphone is ideal for broadcast uses such as remote news, sports, interview and vocal recordings because it eliminates or minimizes the irritating "pop" caused by explosive breath sounds. With the SM58 you will have the peace-of-mind assurance that you're delivering the quality audio that goes with pop-free pickup. It's great for studio announcing, too—or wherever the announcer or vocalist has the audio-degrading habit of "mouthing" the microphone. Of course, the same filters that eliminate pop also do away with the necessity for an add-on windscreen in outdoor uses.

On the other hand, the unusually effective unidirectional cardioid pickup pattern (uniform at *all* frequencies, in *all* planes) means that it is a real problem-solver where background noise is high or where the microphone must be operated at some distance from the performer. incidentally,

but very important, the SM58 tends to control the low frequency "boominess" that is usually accented by close-up microphones.

All in all, close up or at a distance, the Shure SM58 solves the kind of ever-present perplexing problems the audio engineer may have felt were necessary evils. The SM58 might well be the finest all-purpose hand-held microphone in manufacture today. And, all things considered, it is moderate in cost.

Other features: the complete pop-proof filter assembly is instantly replaceable in the field, without tools. Filters can be easily cleaned, too. Stand or hand operation. Detachable cable. Rubber-mounted cartridge minimizes handling noise. Special TV-tested non-glare finish.

For additional information, write directly to Mr. Robert Carr, Manager of Professional Products Division, Shure Brothers, Inc., 222 Hartrey Ave., Evanston, Illinois 60204.

SHURE SM58

SELF-WINDSCREENED UNIDIRECTIONAL DYNAMIC MICROPHONE

OTHER SHURE PROFESSIONAL MICROPHONES... FOR SUPERIOR AUDIO



**MODEL SM5
CARDIOID BOOM DYNAMIC**

Because its cardioid directional pattern is uniquely uniform with frequency and symmetrical about its axis, the SM5 is singularly independent of the effects of environment. Even in extreme shooting situations (such as with tight sets, low ceilings, hard walls, low microphone angles, traffic or air-conditioner noise and rumble and changing distance) the SM5 minimizes sound coloration and ambient noise pickup.



**MODEL SM76
3/4" OMNIDIRECTIONAL
DYNAMIC**

Ideal for interviews and audience participation, yet unusually smooth wide range response (40-20 KC) for critical music reproduction. Instantly detachable from stand. Steel case with Cannon connector.



**MODEL SM50
OMNIDIRECTIONAL
DYNAMIC**

Self-windscreened and pop-free for news, sports, remotes, and interviews. Also ideal for many studio and control room applications. Comfortably balanced for hand or stand use. Natural response.

FAIRCHILD RECORDING EQUIPMENT
GOTHAM AUDIO CORPORATION
HARVEY RADIO CO. INC.
HOUSTON ELECTRONICS CO.
LANG ELECTRONICS, INC.
MICROLAB / FXR
NORTH AMERICAN PHILIPS CO
ORBIT RADIO
RCA BROADCAST PRODS.
SHURE BROTHERS, INC.
SINGER PRODUCTS CO
SOUNDRAFT INDUSTRIES
SOUTHWESTERN COMMUNICATIONS
SPARTA ELECTRONIC CORPORATION

MOBILE EQUIPMENT

AMERICAN ELITE
AMERICAN GELOSD ELECTRONICS
AMPEX CORPORATION
ANDREW CORPORATION
ATLAS SOUND
CENTRAL DYNAMICS CORPORATION
COURIER COMMUNICATIONS
F & M SYSTEMS COMPANY
GATES RADIO COMPANY
G E COMMUNICATION PRODUCTS
J M ELECTRONICS COMPANY
J F JOHNSON COMPANY
MARTI ELECTRONICS
MICROWAVE ASSOCIATES, INC.
MOSELEY ASSOCIATES INC.
THE NOVA COMPANY
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
SYLVANIA-COMM. ELECTRONICS DIV
UTICA CORPORATION
H. WILSON CORPORATION

MOBILE EQUIPMENT, TV

ELECTRONIC MOBILE UNITS
TELE - DEVICES CO.

MODULATORS, TV

AMECO, INC.
BLONDER-TONGUE LABORATORIES
CATEL COMPANY
DYNAIR ELECTRONICS, INC.
EMCEE
INTERNATIONAL NUCLEAR CORP.
JERROLD ELECTRONICS CORP
MARCONI DIVISION
RHMDE & SCHWARZ SALES CO. -USA
STANDARD ELECTRONICS CORP.
SYLVANIA-COMM. ELECTRONICS DIV
TELEQUIP CORPORATION
TOWNSEND ASSOCIATES

MONITORS, AM SYSTEMS

ALTEC LANSING
BELAR ELECTRONICS LABORATORY
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
G E VISUAL COMMUNICATIONS PROD
MELCOR ELECTRONICS
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
SOUTHWESTERN COMMUNICATIONS
TREPAC CORPORATION OF AMERICA
VISUAL ELECTRONICS CORP
VITRO ELECTRONICS
WILKINSON ELECTRONICS, INC

MONITORS, FM SYSTEMS, MONO

ALTEC LANSING
AMECO, INC.
BELAR ELECTRONICS LABORATORY
BROWNING LABORATORIES, INC.
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
HEWLETT-PACKARD CO.
KARG LABORATORIES
MCMARTIN INDUSTRIES
MELCOR ELECTRONICS
RCA BROADCAST PRODS.
SINGER PRODUCTS CO.
SOUTHWESTERN COMMUNICATIONS
UTICA CORPORATION
VISUAL ELECTRONICS CORP
VITRO ELECTRONICS

MONITORS, FM SYSTEMS, SCA

BELAR ELECTRONICS LABORATORY
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
MCMARTIN INDUSTRIES
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
VISUAL ELECTRONICS CORP

MONITORS, FM SYSTEMS, STEREO

AMECO, INC.
BELAR ELECTRONICS LABORATORY
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
GOTHAM AUDIO CORPORATION
KARG LABORATORIES
MCMARTIN INDUSTRIES
MELCOR ELECTRONICS
RCA BROADCAST PRODS.
SINGER PRODUCTS CO.
VISUAL ELECTRONICS CORP

MONITORS, FREQUENCY

AMECO, INC.
BELAR ELECTRONICS LABORATORY
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
G E VISUAL COMMUNICATIONS PROD
HEWLETT-PACKARD CO.
LAMPKIN LABORATORIES INC
MCMARTIN INDUSTRIES

MICROLAB / FXR
RCA BROADCAST PRODS.
THE SINGER CO - METRICS DIV
SINGER PRODUCTS CO
TELETRONIX
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

MONITORS, MODULATION

LAMPKIN LABORATORIES INC

MONITORS, PHASE

GATES RADIO COMPANY
MICROLAB / FXR
MULTRONICS
RCA BROADCAST PRODS.
VISUAL ELECTRONICS CORP
VITRO ELECTRONICS

MONITORS, POWER

F W BELL, INC
BIRD ELECTRONIC CORPORATION

MONITORS, VIDEO

AMECO, INC.
AMPEX CORPORATION
AMPLIVISION CORPORATION
BLONDER-TONGUE LABORATORIES
COMU ELECTRONICS
CONRAC
DIAMOND ELECTRONICS
G E VISUAL COMMUNICATIONS PROD
LAKE ELECTRONICS, INC.
LAVIOLETTE ELECTRONICS
MARCONI DIVISION
MARYLAND TELECOMMUNICATIONS
MIRAFEL ELECTRONICS, INC
RCA BROADCAST PRODS.
SARKES-TARZIAN
SETCHELL CARLSON INCORPORATED
THE SINGER CO - METRICS DIV
SONY CORPORATION OF AMERICA
SYLVANIA-COMM. ELECTRONICS DIV
TELEMET COMPANY
TELEQUIP CORPORATION
TELEVISION UTILITIES CORP
VISUAL ELECTRONICS CORP

MONITORS, WAVEFORM

COLORADO VIDEO
HEWLETT-PACKARD CO.
MARCONI DIVISION
RCA BROADCAST PRODS.
THE SINGER CO - METRICS DIV
SONY CORPORATION OF AMERICA
SYLVANIA-COMM. ELECTRONICS DIV
TEKTRONIX INC
VISUAL ELECTRONICS CORP

MONITORS, ELECTRIC - SEE HARDWARE

TOWNSEND ASSOCIATES

MONITORS, ANTENNA, FIXED

AMECO, INC.
ANDREW CORPORATION
GATES RADIO COMPANY
G C ELECTRONICS COMPANY
JERROLD ELECTRONICS CORP
LIBERTY TOWER MFG. CO
PRODELIN, INCORPORATED
RAYTHEON CO EQUIPMENT DIVISION
RCA BROADCAST PRODS.
ROHM MANUFACTURING CO.
SCIENTIFIC-ATLANTA
TECHNICAL APPLIANCE CORP
TELEQUIP CORPORATION

MONITORS, ANTENNA, MOBILE

GATES RADIO COMPANY
G C ELECTRONICS COMPANY
PRODELIN, INCORPORATED
RAYTHEON CO EQUIPMENT DIVISION
RCA BROADCAST PRODS.
TECHNICAL APPLIANCE CORP
TELEQUIP CORPORATION
UTICA CORPORATION
WATERS MANUFACTURING

MONITORS, INSTRUMENT

ATLAS SOUND
BIRNS & SAWYER
TELEQUIP CORPORATION
UTICA CORPORATION

MONITORS, VIBRATION AND SHOCK

ELECTROVERT, INCORPORATED
MINNESOTA MINING - 3 M

MULTIPLIXERS

DAGE BELL CORPORATION
RCA BROADCAST PRODS.
SYLVANIA-COMM. ELECTRONICS DIV
TELEMETATION, INC.
VIDEOON CORPORATION

NAMEPLATES

D & B ELECTRONICS COMPANY
MINNESOTA MINING - 3 M

NARROW BAND FM EQUIPMENT

AMECO, INC.
AMPLIVISION CORPORATION
COURIER COMMUNICATIONS
MARTI ELECTRONICS
MOSELEY ASSOCIATES INC.
SINGER PRODUCTS CO
STANDARD ELECTRONICS CORP
TOWNSEND ASSOCIATES
UTICA CORPORATION

NEEDLES, CUTTING - SEE STYL

NEEDLES, PLAYBACK - SEE STYL

NETWORKS, MATCHING, AUDIO

ALTEC LANSING

GATES RADIO COMPANY
HARTLEY PRODUCTS
LANGEVIN
SOUTHWESTERN COMMUNICATIONS
STEPHENS ELECTRONICS

NETWORKS, MATCHING, RF

ALFORD MANUFACTURING COMPANY
AMECO, INC.
AMPLIVISION CORPORATION
CCA ELECTRONICS CORPORATION
NARDA MICROWAVE CORPORATION
TELEVIC INDUSTRIES

NETWORKS, PHASING

AMERICAN ELECTRONIC LABS
AMPLIVISION CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
JERROLD ELECTRONICS CORP
MULTRONICS
RCA BROADCAST PRODS.
SINGER PRODUCTS CO.
SOUTHWESTERN COMMUNICATIONS
WARD ELECTRONIC INDUSTRIES

OHMMETERS

COMU ELECTRONICS
ENGINEERING ASSOCIATES
GOTHAM AUDIO CORPORATION
HEATH CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
INSTRUMENT LABORATORIES CORP
RCA ELECTRONIC COMPONENTS
TRIPLETT ELECTRICAL INSTRUMENT
YOKOGAWA ELECTRIC WORKS

OSCILLATORS, AF AND RF

ALSO SEE GENERATORS
BENRUS
CCA ELECTRONICS CORPORATION
ENGINEERING ASSOCIATES
GENERAL RADIO CO
GIBBS MFG. AND RESEARCH CORP.
HEATH CO
HEWLETT-PACKARD CO.
MARCONI INSTRUMENTS
MICROLAB / FXR
NARDA MICROWAVE CORPORATION
RCA BROADCAST PRODS.
RHMDE & SCHWARZ SALES CO. -USA
SCIENTIFIC-ATLANTA
SOUNDRAFT INDUSTRIES
TREPAC CORPORATION OF AMERICA
WAVEFORMS, INCORPORATED

OSCILLATORS, AM

CCA ELECTRONICS CORPORATION
ELECTRONIC RESEARCH COMPANY
ENGINEERING ASSOCIATES
GATES RADIO COMPANY
GENERAL RADIO CO
GIBBS MFG. AND RESEARCH CORP.
HEATH CO
HICKOK ELECTRICAL INSTRUMENT
MARCONI INSTRUMENTS
MICROLAB / FXR
RHMDE & SCHWARZ SALES CO. -USA
SOUTHWESTERN COMMUNICATIONS

OSCILLATORS, FM

BELAR ELECTRONICS LABORATORY
CCA ELECTRONICS CORPORATION
ELECTRONIC RESEARCH COMPANY
GATES RADIO COMPANY
GIBBS MFG. AND RESEARCH CORP.
HEATH CO
HICKOK ELECTRICAL INSTRUMENT
MARCONI INSTRUMENTS
RHMDE & SCHWARZ SALES CO. -USA
SOUTHWESTERN COMMUNICATIONS
STANDARD ELECTRONICS CORP.

OSCILLATORS, TV

GATES RADIO COMPANY
GIBBS MFG. AND RESEARCH CORP.
HEATH CO
HICKOK ELECTRICAL INSTRUMENT
RIKER VIDEO INDUSTRIES
RHMDE & SCHWARZ SALES CO. -USA
STANDARD ELECTRONICS CORP
TELEMET COMPANY
VIDEOON CORPORATION

OSCILLATORS, OTHER

EIMAC DIVISION OF VARIAN
ELECTRONIC RESEARCH COMPANY
ENGINEERING ASSOCIATES
GIBBS MFG. AND RESEARCH CORP.
MARCONI INSTRUMENTS
NARDA MICROWAVE CORPORATION
RHMDE & SCHWARZ SALES CO. -USA
TELEVIC INDUSTRIES
WAVEFORMS, INCORPORATED

OSCILLOSCOPES

ALTEC ELECTRONICS CORP
BENRUS
COLORADO VIDEO
DATA INSTRUMENT DIVISION
ENGINEERING ASSOCIATES
HEATH CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
ITI ELECTRONICS, INC.
RCA BROADCAST PRODS.
RCA ELECTRONIC COMPONENTS
TEKTRONIX INC
TELEQUIP CORPORATION

OVENS, CRYSTAL

ELECTRONIC RESEARCH COMPANY
SINGER PRODUCTS CO.
TRW ELECTRONICS

PANELS - SEE HARDWARE

PANELS, INSTRUMENT

FOR RACK MOUNTING -
ALSO SEE HARDWARE
BUD RADIO, INC
COLDTRAM INDUSTRIES - BERKEY
GENERAL ELECTRIC CO
SOUTHWESTERN COMMUNICATIONS
TELEQUIP CORPORATION
VENT-RAK INCORPORATED
YOKOGAWA ELECTRIC WORKS

PAPER, CHART AND GRAPH

ENGINEERING ASSOCIATES
MINNESOTA MINING - 3 M
SCIENTIFIC-ATLANTA

PHASING UNITS - SEE

NETWORKS, PHASING

PHONOGRAPH TURNTABLES -

SEE TURNTABLES

PICKUP, MUSICAL INSTRUMENTS

CUSTOM CRAFT DESIGNS

PLOWS, CABLE LAYING

F. B. RYAN MFG. COMPANY, INC.

PLUGS, COAXIAL

ADC PRODUCTS
AMECO, INC.
AMERICAN PAMCOR, INC
AMPHENOL DISTRIBUTOR DIVISION
ENGINEERING ASSOCIATES
ELECTRONICS ESSENTIALS OF CCC
GENERAL RADIO CO
JAMPRO ANTENNA COMPANY
PHELPS DODGE
RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
SINGER PRODUCTS CO.
THE TECHNICAL MATERIEL CORP
TROMPETER ELECTRONICS

PLUGS, PHONE

ADC PRODUCTS
AMPHENOL DISTRIBUTOR DIVISION
AUDIO ACCESSORIES
BIRNBACH CO
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
MALLORY DISTRIBUTOR PRODUCTS
RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
SINGER PRODUCTS CO.
SWITCHCRAFT, INC.

POLE CLIMBING EQUIPMENT

AMECO, INC.
PRUZAN COMPANY

POTENTIOMETERS, CARBON

AMERICAN ELITE
AMPHENOL DISTRIBUTOR DIVISION
CENTRALAB
GOTHAM AUDIO CORPORATION
IRC, INC.
OHMITE MANUFACTURING COMPANY
SINGER PRODUCTS CO.

POTENTIOMETERS, WIREWOUND

ALTEC LANSING
AMPHENOL DISTRIBUTOR DIVISION
CENTRALAB
ENGINEERING ASSOCIATES
GENERAL RADIO CO
IRC, INC.
OHMITE MANUFACTURING COMPANY
PAINOTN INCORPORATED
SINGER PRODUCTS CO.
WATERS MANUFACTURING

POWER SUPPLIES, AC

ADC PRODUCTS
ALTEC LANSING
AMECO, INC.
ANACONDA ASTRODATA CO
BIRNS & SAWYER
BLONDER-TONGUE LABORATORIES
COMU ELECTRONICS
CORNELL-DUBILIER ELECTRONICS
D & B ELECTRONICS COMPANY
ENGINEERING ASSOCIATES
FAIRCHILD RECORDING EQUIPMENT
GATES RADIO COMPANY
GENERAL ELECTRIC CO
GENERAL RADIO CO
GIBBS MFG. AND RESEARCH CORP.
GREGORY AMPLIFIER CORP
HEATH CO
JERROLD ELECTRONICS CORP
POWER SOURCES
THE SINGER CO - METRICS DIV
SOLA ELECTRIC
SORENSEN OPERATION-RAYTHEON CO
STACO, INC.
STANDARD ELECTRONICS CORP
TELEQUIP CORPORATION
TREPAC CORPORATION OF AMERICA

POWER SUPPLIES, DC

ADC PRODUCTS
ALMA ENGINEERING INC
ALTEC LANSING
AMECO, INC.
BIRNS & SAWYER
BLONDER-TONGUE LABORATORIES
CENTURY PROJECTOR CORPORATION
COMU ELECTRONICS
CORNELL-DUBILIER ELECTRONICS
DELTA ELECTRONICS, INC.
ELECTRO PRODUCTS LABORATORIES
ENGINEERING ASSOCIATES

Tektronix Television Instruments

Type 526 Vectorscope for Chroma-Signal Displays

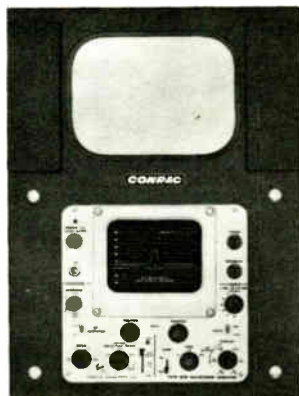
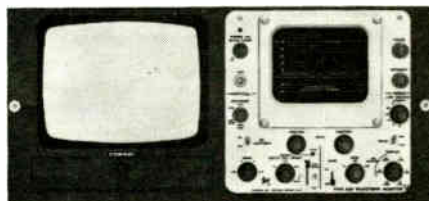
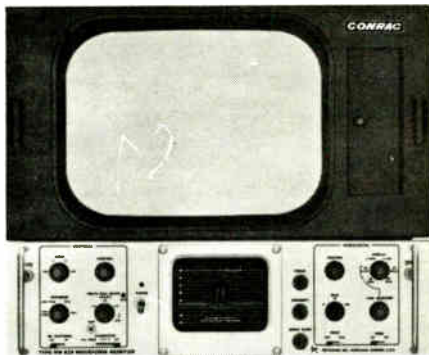
color encoder adjustments
differential phase measurements
differential gain measurements
vertical-interval-test-signal (VITS)
displays
video tape-recorder setup



Measuring amplitude changes and phase shifts can be done accurately, conveniently, and independently with the Vectorscope. The Vectorscope presents relative phase and amplitude displays (of chrominance information in the N.T.S.C. color signal). Dual-trace capability permits simultaneous display of two color signals for precise matching of phase and amplitude. In addition to the vector display, the Vectorscope can present the chroma signal demodulated along any phase-angle with respect to time.

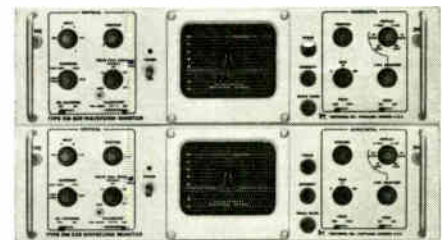
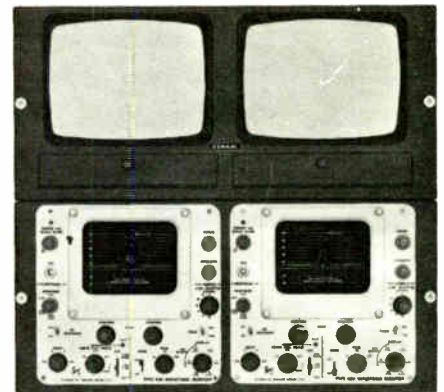
Type 526 Vectorscope \$1665
Size is 8 $\frac{1}{4}$ " high, 19" wide, and 18" deep.
Weight is ~ 45 pounds. Designed for rack mounting.

Type 529/RM529 for Waveform Monitoring



vertical-interval-test-signal (VITS)
displays
sine-squared pulse and bar testing
transmitter modulation monitoring
YRBG or RGB displays (with color-
processing amplifiers)
video signal-level monitoring
bandwidth measurements
differential-gain measurements

In waveform-monitoring applications, the Type 529 and RM529 offer 2 LINE and 2 FIELD displays plus calibrated sweep rates of 0.25 H/cm, 0.125 H/cm, 0.025 H/cm with X5 Magnifier, and 0.005 H/cm with X25 Magnifier. They provide 4 response characteristics necessary to monitor VITS—FLAT to 8 MHz (which assures excellent waveform fidelity for sine-squared testing with 2T, T, and 1/2T pulses), HIGH PASS 3.58 MHz, center frequency, LOW PASS—18 dB at 500 kHz, and IEEE 1958 STD 23-S-1. Other characteristics include a backporch type DC restorer, a positive-going field selector, and a full-field line-selector including digital VIT line selection.



Type 529 Waveform Monitor . . . \$1050
(8 $\frac{1}{4}$ " high, 8 $\frac{1}{2}$ " wide, 19" deep, weighs 24 pounds.)

Rack Mount Type RM529 \$1100
(5 $\frac{1}{4}$ " high, 19" wide, 20" deep, weighs 27 pounds.)

Power consumption of each model is ~ 80 watts — no fan used.

U.S. Sales Prices, f.o.b. Beaverton, Oregon

Tektronix, Inc.



For complete information, contact your nearby Tektronix field engineer or write:
Tektronix, Inc., P.O. Box 500, Beaverton, Oregon 97005

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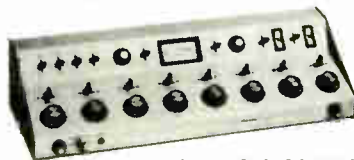
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IRC, INC.
JORDAN ELECTRIC COMPANY
MALLORY DISTRIBUTOR PRODUCTS
OHMITE MANUFACTURING COMPANY
PAINTON INCORPORATED
TEXAS INSTRUMENTS
VISHAY RESISTOR PRODUCTS DIV

RESISTORS, FIXED, WIREWOUND
AMPHENOL DISTRIBUTOR DIVISION
GENERAL ELECTRIC CO
GENERAL RADIO CO
HAMILTON HALL RESISTOR CORP.
IRC, INC.
JORDAN ELECTRIC COMPANY
MALLORY DISTRIBUTOR PRODUCTS
OHMITE MANUFACTURING COMPANY
PAINTON INCORPORATED
SINGER PRODUCTS CO.

RESISTORS, FIXED, OTHER
AEROVOX CORP.
AMPEREX ELECTRONIC CORP
GENERAL ELECTRIC CO
IRC, INC.
OHMITE MANUFACTURING COMPANY
PAINTON INCORPORATED

RESISTORS, VARIABLE, CARBON
AMPHENOL DISTRIBUTOR DIVISION
MALLORY DISTRIBUTOR PRODUCTS
OHMITE MANUFACTURING COMPANY
SINGER PRODUCTS CO.

RESISTORS, VARIABLE, WIREWOUND
AMPHENOL DISTRIBUTOR DIVISION
ENGINEERING ASSOCIATES
G C ELECTRONICS COMPANY
GENERAL RADIO CO
IRC, INC.
MALLORY DISTRIBUTOR PRODUCTS
OHMITE MANUFACTURING COMPANY
PAINTON INCORPORATED
WATERS MANUFACTURING

REVERBERATION DEVICES -
ALSO SEE AMPLIFIERS
AMPLIFIER CORP OF AMERICA
BAUER ELECTRONICS CORPORATION
CLEVELAND ELECTRONICS
SPEAKER DIVISION
FOURCH RECORDING EQUIPMENT
GOTHAM AUDIO CORPORATION
GREGORY AMPLIFIER CORP
LITTLE JOE ENTERPRISES
ORBIT RADIO
SINGER PRODUCTS CO
STEPHENS ELECTRONICS
VISUAL ELECTRONICS CORP

REWINDERS, FILM
BURKE & JAMES
CENTURY PROJECTOR CORPORATION
HARWALD COMPANY
NEUMADE PRODUCTS CORPORATION
RCA BROADCAST PRODS.

REWINDERS, TAPE
HARVEY RADIO CO, INC.

RHEOSTATS
ENGINEERING ASSOCIATES
GENERAL ELECTRIC CO
GENERAL RADIO CO
MALLORY DISTRIBUTOR PRODUCTS
NEUMADE PRODUCTS CORPORATION
OHMITE MANUFACTURING COMPANY

RINGS, RETAINING - SEE HARDWARE

RODS, GROUND
AMPLIVISION CORPORATION

SAFETY DEVICES, CLIMBING
AIR SPACE DEVICES
PRUZAN COMPANY

SCHOOLS, FACILITIES & EQUIPMENT
SEE EDUCATION FACILITIES

SCRAMBLERS, SPEECH
SINGER PRODUCTS CO
TREPAC CORPORATION OF AMERICA

SCREENS, PROJECTION, FRONT
ASCO SONOCRAFT CORP
BIRNS & SAWYER
BURKE & JAMES
RAVEN SCREEN CORPORATION
VISUAL ELECTRONICS CORP

SCREENS, PROJECTION, REAR
BURKE & JAMES
DISPLAY TECHNOLOGIES INC
RAVEN SCREEN CORPORATION
VISUAL ELECTRONICS CORP
H. WILSON CORPORATION

SEMICONDUCTOR DIODES
AMERICAN ELECTRONIC LABS
AMERICAN ELITE
AMPEREX ELECTRONIC CORP
G E DISTRIBUTOR SALES FORCE
GENERAL ELECTRIC CO
HEWLETT-PACKARD CO.
INTERNATIONAL RECTIFIER
IRC, INC.
MICROLAB / FXR
MICROWAVE ASSOCIATES, INC.
MOTOROLA SEMICONDUCTOR
OHMITE MANUFACTURING COMPANY
RCA ELECTRONIC COMPONENTS
SARKES-TARZIAN
SINGER PRODUCTS CO.
SOLITRON DEVICES
SYLVANIA-SEMICONDUCTOR DIV.
TEXAS INSTRUMENTS
THOR ELECTRONICS
TRW ELECTRONICS

SEMICONDUCTOR RECTIFIERS,
GENERAL
CENTURY PROJECTOR CORPORATION
G E DISTRIBUTOR SALES FORCE
GENERAL ELECTRIC CO
INTERNATIONAL RECTIFIER
IRC, INC.
MALLORY DISTRIBUTOR PRODUCTS
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
SARKES-TARZIAN
SINGER PRODUCTS CO.
SOLITRON DEVICES
SYLVANIA-SEMICONDUCTOR DIV.
TEXAS INSTRUMENTS
THOR ELECTRONICS
TRW ELECTRONICS

SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
G E DISTRIBUTOR SALES FORCE
INTERNATIONAL RECTIFIER
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
SARKES-TARZIAN
SINGER PRODUCTS CO.
SOLITRON DEVICES
TEXAS INSTRUMENTS
THOR ELECTRONICS
TRW ELECTRONICS
WILKINSON ELECTRONICS, INC

SEMICONDUCTOR RECTIFIERS,
POWER
G E DISTRIBUTOR SALES FORCE
GENERAL ELECTRIC CO
INTERNATIONAL RECTIFIER
MALLORY DISTRIBUTOR PRODUCTS
MOTOROLA SEMICONDUCTOR

RCA ELECTRONIC COMPONENTS
SARKES-TARZIAN
SINGER PRODUCTS CO.
SOLITRON DEVICES
SYLVANIA-SEMICONDUCTOR DIV.
TEXAS INSTRUMENTS
THOR ELECTRONICS
WILKINSON ELECTRONICS, INC

SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR
AMPEREX ELECTRONIC CORP
DELCO RADIO DIV
G E DISTRIBUTOR SALES FORCE
GENERAL ELECTRIC CO
INTERNATIONAL RECTIFIER
IRC, INC.
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
SARKES-TARZIAN
TEXAS INSTRUMENTS
THOR ELECTRONICS

SEMICONDUCTORS, THYRISTORS
AMPEREX ELECTRONIC CORP
G E DISTRIBUTOR SALES FORCE
INTERNATIONAL RECTIFIER
IRC, INC.
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
TEXAS INSTRUMENTS
THOR ELECTRONICS

SEMICONDUCTORS, TRANSISTORS, AF
AMERICAN ELITE
AMPEREX ELECTRONIC CORP
DELCO RADIO DIV
G E DISTRIBUTOR SALES FORCE
INTERNATIONAL RECTIFIER
LAKE ELECTRONICS, INC.
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
SINGER PRODUCTS CO.
SOLITRON DEVICES
SYLVANIA-SEMICONDUCTOR DIV.
TEXAS INSTRUMENTS
THOR ELECTRONICS

SEMICONDUCTORS, TRANSISTORS, FE
AMPEREX ELECTRONIC CORP
G E DISTRIBUTOR SALES FORCE
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
TEXAS INSTRUMENTS
THOR ELECTRONICS

SEMICONDUCTORS, TRANSISTORS, GENERAL
AMPEREX ELECTRONIC CORP
DELCO RADIO DIV
G E DISTRIBUTOR SALES FORCE
GENERAL ELECTRIC CO
INTERNATIONAL RECTIFIER
LAKE ELECTRONICS, INC.
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
SINGER PRODUCTS CO.
SOLITRON DEVICES
SYLVANIA-SEMICONDUCTOR DIV.
TEXAS INSTRUMENTS
THOR ELECTRONICS
TRW ELECTRONICS

SEMICONDUCTORS, TRANSISTORS, RF
AMERICAN ELITE
AMPEREX ELECTRONIC CORP
G E DISTRIBUTOR SALES FORCE
INTERNATIONAL RECTIFIER
MOTOROLA SEMICONDUCTOR
RCA ELECTRONIC COMPONENTS
SOLITRON DEVICES
SYLVANIA-SEMICONDUCTOR DIV.
TEXAS INSTRUMENTS
THOR ELECTRONICS
TRW ELECTRONICS

SERVICES, FREQUENCY-MEASUREMENT
SEE CALIBRATION SERVICES,
FREQUENCY

SERVICES, INSTALLATION
GRINNAN FIXTURE COMPANY
GULF ELECTRO-SALES INC

SERVICES, MAINTENANCE -
SEE MAINTENANCE SERVICES

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ELECTRONICS ESSENTIALS OF CCC

SHIFTERS, PHASE, MICROWAVE
DEMORNAY - BONARDI DIVISION
MICROWAVE ASSOCIATES, INC.
NARDA MICROWAVE CORPORATION
PRODELIN, INCORPORATED

SHUNTS, METER
ENGINEERING ASSOCIATES
G E INDUSTRIAL SALES OPERATION
GENERAL ELECTRIC CO
THE SINGER CO - METRICS DIV
TRIPLETT ELECTRICAL INSTRUMENT

SLIDES, CHASSIS
BUDD RADIO, INC
CHASSIS TRAK
ELECTRONICS ESSENTIALS OF CCC
ROBINS INDUSTRIES CORP.
VENT-RAK INCORPORATED

SLOTTED SECTIONS
ALFORD MANUFACTURING COMPANY
DEMORNAY - BONARDI DIVISION
MICROLAB / FXR
MICRO-LINK SYSTEMS/VARIAN ASSO

NARDA MICROWAVE CORPORATION
PHELPS DODGE
PRODELIN, INCORPORATED
ROHDF & SCHWARZ SALFS CO. -USA

SOCKETS, CRYSTAL

E F JOHNSON COMPANY

SOCKETS, LAMP

AUDIO ACCESSORIES
DIALIGHT CORPORATION
ELECTRONICS ESSENTIALS OF CCC
F F JOHNSON COMPANY

SOCKETS, TUBE

AEROVOX CORP.
EIMAC DIVISION OF VARIAN
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
E F JOHNSON COMPANY

SOLDER

G C ELECTRONICS COMPANY
SINGER PRODUCTS CO.

SOLVENTS AND CLEANERS

G C ELECTRONICS COMPANY
HARWALD COMPANY
NEUMADE PRODUCTS CORPORATION
ROBINS INDUSTRIES CORP.

SOUND SYSTEMS, OUTDOOR

ALTEC LANSING
AMERICAN GELOSO ELECTRONICS
AMPEX CORPORATION
APPLIED ELECTRO-MECHANICS
ATLAS SOUND
AUDIO INSTRUMENT CO
GREGORY AMPLIFIER CORP
HARVEY RADIO CO., INC.
HOUSTON ELECTRONICS CO.
JENSEN MANUFACTURING
JAMES B LANSING SOUND CO
MCMARTIN INDUSTRIES
NORTH AMERICAN PHILIPS CO
RCA BROADCAST PRODS.
SOUTHWESTERN COMMUNICATIONS
TRUSONIC

SOUND SYSTEMS, PORTABLE

ALTEC LANSING
AMERICAN GELOSO ELECTRONICS
AMPEX CORPORATION
APPLIED ELECTRO-MECHANICS
CALIFONE/ROBERTS
CENTURY PROJECTOR CORPORATION
GREGORY AMPLIFIER CORP
HARVEY RADIO CO., INC.
HOUSTON ELECTRONICS CO.
JENSEN MANUFACTURING
MCMARTIN INDUSTRIES
NORTH AMERICAN PHILIPS CO
ORBIT RADIO
RCA BROADCAST PRODS.
SINGER PRODUCTS CO.
SONY CORPORATION OF AMERICA
SOUTHWESTERN COMMUNICATIONS
TRUSONIC

SOUND SYSTEMS, THEATER

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AMPEX CORPORATION
ATLAS SOUND
AUDIO INSTRUMENT CO
CENTURY PROJECTOR CORPORATION
GREGORY AMPLIFIER CORP
HARVEY RADIO CO., INC.
HOUSTON ELECTRONICS CO.
JENSEN MANUFACTURING
JAMES B LANSING SOUND CO
MCMARTIN INDUSTRIES
MID AMERICA ELECTRONICS CORP
NORTH AMERICAN PHILIPS CO
RCA BROADCAST PRODS.
TRUSONIC

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ATLAS SOUND
CALBEST ELECTRONICS
ELECTRO-VOICE INC
ELECTRONICS ESSENTIALS OF CCC
JENSEN MANUFACTURING
JAMES B LANSING SOUND CO
NORTH AMERICAN PHILIPS CO
PERMOFLUX CORPORATION
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
SONY CORPORATION OF AMERICA
TRUSONIC

SPEAKERS

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AMERICAN ELITE
AMERICAN GELOSO ELECTRONICS
AMPEX CORPORATION
ATLAS SOUND
CALIFONE/ROBERTS
CCA ELECTRONICS CORPORATION
CENTURY PROJECTOR CORPORATION
CLEVELAND ELECTRONICS
SPEAKER DIVISION
ELECTRO-SOUND ACOUSTICS
ELECTRO-VOICE INC
GATES RADIO COMPANY
GREGORY AMPLIFIER CORP
HARTLEY PRODUCTS
JENSEN MANUFACTURING
KOSS ELECTRONICS, INC.
LAKE ELECTRONICS, INC.
JAMES B LANSING SOUND CO
MCMARTIN INDUSTRIES
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OAKTRON INDUSTRIES, INC.
PERMOFLUX CORPORATION
RCA BROADCAST PRODS.

SETCHELL CARLSON INCORPORATED
SINGER PRODUCTS CO
SONY CORPORATION OF AMERICA
TRUSONIC
TRW ELECTRONICS

SPLICERS, MAGNETIC TAPE & FILM

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BROADCAST ELECTRONICS, INC
BURKE & JAMES
G C ELECTRONICS COMPANY
HARWALD COMPANY
THE KALART COMPANY
MINNESOTA MINING - 3 M
NEUMADE PRODUCTS CORPORATION
PRECISION LABORATORIES
RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
SPARTA ELECTRONIC CORPORATION

STANDS, TELEVISION MONITOR

GENERAL TELEVISION NETWORK

STL EQUIPMENT

ANDREW CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
JERROLD ELECTRONICS CORP
MARTI ELECTRONICS
MCMARTIN INDUSTRIES
MICRO-LINK SYSTEMS/VARIAN ASSO
MOSELY ASSOCIATES INC.
RCA BROADCAST PRODS.
RHG ELECTRONICS LABORATORY
SARKES-TARZIAN
SINGER PRODUCTS CO
TELEMET COMPANY
TELETRONIX
TREPAC CORPORATION OF AMERICA
VISUAL ELECTRONICS CORP

STROBE, DISC

G C ELECTRONICS COMPANY
GENERAL RADIO CO
LANG ELECTRONICS, INC
ROBINS INDUSTRIES CORP.

STROBE, LIGHT

BERKEY TECHNICAL CORP
ELECTRONIC LIGHTS, INC.
G C ELECTRONICS COMPANY
GENERAL RADIO CO
ROBINS INDUSTRIES CORP.

STYLI, CUTTING

THE ASTATIC CORPORATION
DUOTONE COMPANY INC
SINGER PRODUCTS CO.
TRANSCO PRODUCTS, INTL

STYLI, PLAYBACK

THE ASTATIC CORPORATION
DUOTONE COMPANY INC
SHURE BROTHERS, INC.
TRANSCO PRODUCTS, INTL

SWITCHERS

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AMECO, INC.
AMERICAN PANCOR, INC
BLONDER-TONGUE LABORATORIES
CENTRAL DYNAMICS CORPORATION
COHU ELECTRONICS
DYNAIR ELECTRONICS, INC.
G E VISUAL COMMUNICATIONS PROD
INTERNATIONAL GOOD MUSIC
INTERNATIONAL NUCLEAR CORP.
JENNINGS RADIO MANUFACTURING
RCA BROADCAST PRODS.
RIKER VIDEO INDUSTRIES
SCHAFFER ELECTRONICS
SOUTHWESTERN COMMUNICATIONS
SYLVANIA-COMM. ELECTRONICS DIV
TELEMATION, INC.
TREPAC CORPORATION OF AMERICA
VIDEON CORPORATION
VISUAL ELECTRONICS CORP
WARD ELECTRONIC INDUSTRIES

SWITCHES, COAXIAL

ALFORD MANUFACTURING COMPANY
AMERICAN ELECTRONIC LABS
ANDREW CORPORATION
BARKER & WILLIAMSON
BIRD ELECTRONIC CORPORATION
BLONDER-TONGUE LABORATORIES
ENGINEERING ASSOCIATES
JAMPRO ANTENNA COMPANY
JENNINGS RADIO MANUFACTURING
JERROLD ELECTRONICS CORP
MICROLAB / FXR
MICROWAVE ASSOCIATES, INC.
NARDA MICROWAVE CORPORATION
PRODELIN, INCORPORATED
SINGER PRODUCTS CO.
THE TECHNICAL MATERIEL CORP
TROMPETER ELECTRONICS
WATERS MANUFACTURING

SWITCHES, CROSSBAR

CENTRAL DYNAMICS CORPORATION
INTERNATIONAL NUCLEAR CORP.
ITT TELECOMMUNICATIONS
JENNINGS RADIO MANUFACTURING
TROMPETER ELECTRONICS

SWITCHES, FOOT

ATLAS SOUND
GENERAL ELECTRIC CO

SWITCHES, ILLUMINATED

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OAK MANUFACTURING CO
SWITCHCRAFT, INC.

SWITCHES, MECHANICALLY ACTUATED
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JENNINGS RADIO MANUFACTURING
OAK MANUFACTURING CO
OHMITE MANUFACTURING COMPANY
WABER ELECTRONICS, INC.

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ALTEC LANSING
CENTRALAB
HICKOK ELECTRICAL INSTRUMENT
LANGEVIN
DONALD P. MOSSMAN, INC.
OAK MANUFACTURING CO
PAINTON INCORPORATED
SWITCHCRAFT, INC.

SWITCHES, PUSHBUTTON
AMERICAN ELITE
BIRNBACH CO
CENTRALAB
G C ELECTRONICS COMPANY
GENERAL ELECTRIC CO
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DONALD P. MOSSMAN, INC.
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PAINTON INCORPORATED
SWITCHCRAFT, INC.

SWITCHES, ROTARY
ALTEC LANSING
AMERICAN ELITE
CENTRALAB
ENGINEERING ASSOCIATES
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GENERAL ELECTRIC CO
INDUSTRIAL DEVICES, INC.
JENNINGS RADIO MANUFACTURING
JERROLD ELECTRONICS CORP
LANGEVIN
MALLORY DISTRIBUTOR PRODUCTS
OAK MANUFACTURING CO
OHMITE MANUFACTURING COMPANY
PAINTON INCORPORATED
SINGER PRODUCTS CO.

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AMERICAN ELITE
BIRNBACH CO
CENTRALAB
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
OAK MANUFACTURING CO
SINGER PRODUCTS CO.
SWITCHCRAFT, INC.

SWITCHES, SNAP
ELECTRONIC RESEARCH COMPANY
ELECTRONICS ESSENTIALS OF CCC
GENERAL ELECTRIC CO
E F JOHNSON COMPANY
OAK MANUFACTURING CO
ROBINS INDUSTRIES CORP.
SINGER PRODUCTS CO.

SWITCHES, TELEPHONE TYPE
ITT TELECOMMUNICATIONS
DONALD P. MOSSMAN, INC.
SWITCHCRAFT, INC.

SWITCHES, THERMAL
ELECTRONIC RESEARCH COMPANY
GENERAL ELECTRIC CO
G-V CONTROLS INC.

SWITCHES, TOGGLE
AMERICAN ELITE
BIRNBACH CO
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
GENERAL ELECTRIC CO
PAINTON INCORPORATED
ROBINS INDUSTRIES CORP.
SINGER PRODUCTS CO.

SWITCHES, WAVEGUIDE
AMERICAN ELECTRONIC LABS
ANDREW CORPORATION
DEMORNAY - BONARDI DIVISION
MICROLAB / FXR
MICROWAVE ASSOCIATES, INC.

SWITCHING MATRIXES
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AMERICAN PAMCOR, INC
ANDREW CORPORATION
CENTRAL DYNAMICS CORPORATION
COMU ELECTRONICS
DELTA ELECTRONICS INC
INTERNATIONAL NUCLEAR CORP.
JENNINGS RADIO MANUFACTURING

MULTRONICS
SARKES-TARZIAN
SCHAFFER ELECTRONICS
S. STERLING COMPANY
SWITCHCRAFT, INC.
TELEMET COMPANY
TROMPETER ELECTRONICS
WARD ELECTRONIC INDUSTRIES

SWITCHING SYSTEMS
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AMERICAN PAMCOR, INC
ANDREW CORPORATION
CENTRAL DYNAMICS CORPORATION
COMU ELECTRONICS
DYNAIR ELECTRONICS, INC.
F & M SYSTEMS COMPANY
GATES RADIO COMPANY
HANCOCK TELECONTROL
INTERNATIONAL GOOD MUSIC
INTERNATIONAL NUCLEAR CORP.
ITT TELECOMMUNICATIONS
JENNINGS RADIO MANUFACTURING
RCA BROADCAST PRODS.
RIKER VIDEO INDUSTRIES
SARKES-TARZIAN
STEPHENS ELECTRONICS
S. STERLING COMPANY
SWITCHCRAFT, INC.
TELEQUIP CORPORATION
TREPAC CORPORATION OF AMERICA
TROMPETER ELECTRONICS
VIDEON CORPORATION
VISUAL ELECTRONICS CORP
VITAL INDUSTRIES
WARD ELECTRONIC INDUSTRIES

TAPE DECKS, MAGNETIC
AMPEX CORPORATION
AMPLIVISION CORPORATION
ASCO SONOCRAFT CORP
AUDIO INSTRUMENT CO
BROADCAST ELECTRONICS, INC
CONTINENTAL ELECTRONICS MFG
CROWN INTERNATIONAL
DISPLAY TECHNOLOGIES INC
GATES RADIO COMPANY
IMPEX ELECTRONICS CORP
INTERNATIONAL GOOD MUSIC
JETRONIC INDUSTRIES, INC.
KRS INSTRUMENTS DIVISION
MACKENZIE LABORATORIES
MAGNA-TECH CORPORATION
MAGNECOR
MINNESOTA MINING - 3 M
RCA BROADCAST PRODS.
SCHAFFER ELECTRONICS
SINGER PRODUCTS CO
STACO, INC.
STANCIL-HOFFMAN CORPORATION
TELECTRO INDUSTRIES CORP
VIKING OF MINNEAPOLIS
VISUAL ELECTRONICS CORP

TAPE DUPLICATORS
AMPEX CORPORATION
ASCO SONOCRAFT CORP
BIONIC INSTRUMENTS, INC.
CROWN INTERNATIONAL
HARVEY RADIO CO, INC.
LANG ELECTRONICS, INC
MAGNA-TECH CORPORATION
MAGNECOR
MINNESOTA MINING - 3 M
SINGER PRODUCTS CO
TELECTRO INDUSTRIES CORP
VIKING OF MINNEAPOLIS
VISUAL ELECTRONICS CORP

TAPE, MAGNETIC RECORDING, AUDIO
ALLIED ELECTRONICS CORP
AMERICAN GELOSIO ELECTRONICS
AMPEX CORPORATION
ASCO SONOCRAFT CORP
THE ASTATIC CORPORATION
AUDIO DEVICES
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BROADCAST ELECTRONICS, INC
BURGESS BATTERY COMPANY
COMPUTRON INC
DUOTONE COMPANY INC
EASTMAN KODAK COMPANY
IMPEX ELECTRONICS CORP
JDA CARTRIDGE SERVICE
MACARTA INC.
MAGNETIC MEDIA CORPORATION
MINNESOTA MINING - 3 M
RCA BROADCAST PRODS.
REEVES SOUNDRAFT
ROBINS INDUSTRIES CORP.
SARKES-TARZIAN
SINGER PRODUCTS CO
TAPECASTER ELECTRONICS
WIDE RESPONSE

TAPE, MAGNETIC RECORDING, AUDIO, CARTRIDGE
AUDIO DEVICES
BROADCAST ELECTRONICS, INC
MINNESOTA MINING - 3 M
SPARTA ELECTRONIC CORPORATION

TAPE, MAGNETIC RECORDING, COMPUTER
AMPEX CORPORATION
AUDIO DEVICES
COMPUTRON INC
MAGNETIC MEDIA CORPORATION
MEMOREX CORPORATION
MINNESOTA MINING - 3 M
REEVES SOUNDRAFT

TAPE, MAGNETIC RECORDING, TEST
AMPEX CORPORATION
AUDIO DEVICES
COMPUTRON INC

GATES RADIO COMPANY
MINNEAPOLIS MAGNETICS
MINNESOTA MINING - 3 M
NDRTRONICS COMPANY, INC
ORBIT RADIO

TAPE, MAGNETIC RECORDING, VIDEO
AMECO, INC.
AMPEX CORPORATION
AMPLIVISION CORPORATION
ASCO SONOCRAFT CORP
COMPUTRON INC
MAGNETIC MEDIA CORPORATION
MEMOREX CORPORATION
MINNESOTA MINING - 3 M
RCA BROADCAST PRODS.
REEVES SOUNDRAFT
SONY CORPORATION OF AMERICA
TELEVISION UTILITIES CORP

TAPE, MAGNETIC, GRAPHIC
KRS INSTRUMENTS DIVISION
MINNESOTA MINING - 3 M

TELEPHONE EQUIPMENT
ALTEC LANSING
AMERICAN ELITE
AUDIO INSTRUMENT CO
BROADCAST ELECTRONICS, INC
COOK ELECTRIC COMPANY
ELECTRONICS ESSENTIALS OF CCC
THE JAMES FLOYD FORD CO
HEWLETT-PACKARD CO.
ITT TELECOMMUNICATIONS
ROANWELL CORPORATION
TELEMET COMPANY

TERMINAL BLOCKS
ADC PRODUCTS
AMERICAN PAMCOR, INC
BUCHANAN ELECTRICAL PRODS CORP
COOK ELECTRIC COMPANY
ELECTRONICS ESSENTIALS OF CCC
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RCA BROADCAST PRODS.
SINGER PRODUCTS CO.
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TERMINAL BOARDS
ADC PRODUCTS
BUCHANAN ELECTRICAL PRODS CORP
D & B ELECTRONICS COMPANY
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VITRO ELECTRONICS

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BUCHANAN ELECTRICAL PRODS CORP
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HOLLINGSWORTH SOLDERLESS
TERMINAL CO
SINGER PRODUCTS CO.
THE THOMAS & BETTS CO

TERMINALS, SOLDER
BIRNBACH CO
BUCHANAN ELECTRICAL PRODS CORP
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
SINGER PRODUCTS CO.

TERMINALS, SOLDERLESS
AEROVOX CORP.
AMERICAN PAMCOR, INC
BIRNBACH CO
BUCHANAN ELECTRICAL PRODS CORP
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
HOLLINGSWORTH SOLDERLESS
TERMINAL CO
SINGER PRODUCTS CO.
THE THOMAS & BETTS CO

TESTERS, BATTERY
GENERAL ELECTRIC CO
GOTHAM AUDIO CORPORATION
HICKOK ELECTRICAL INSTRUMENT
MALLORY DISTRIBUTOR PRODUCTS
SINGER PRODUCTS CO.

TESTERS, CAPACITOR
CONNELL-DUBILIER ELECTRONICS
GENERAL RADIO CO
HICKOK ELECTRICAL INSTRUMENT
RHODE & SCHWARZ SALES CO. -USA

TESTERS, INSULATION
ENGINEERING ASSOCIATES
GENERAL ELECTRIC CO
GENERAL RADIO CO
GOTHAM AUDIO CORPORATION
RHODE & SCHWARZ SALES CO. -USA
SINGER PRODUCTS CO
TELEMET COMPANY
YOKOGAWA ELECTRIC WORKS

TESTERS, SEMICONDUCTOR
AMERICAN ELECTRONIC LABS
DELTA ELECTRONICS, INC.
HICKOK ELECTRICAL INSTRUMENT
RHODE & SCHWARZ SALES CO. -USA
SOLITRON DEVICES
TEKTRONIX INC
TRIPLETT ELECTRICAL INSTRUMENT

TESTERS, VACUUM TUBE
ALLIED ELECTRONICS CORP
ENGINEERING ASSOCIATES
HICKOK ELECTRICAL INSTRUMENT
RCA ELECTRONIC COMPONENTS
TEKTRONIX INC
TRIPLETT ELECTRICAL INSTRUMENT

THYRISTORS - SEE SEMICONDUCTORS

TIMERS, ELECTRIC
BIONIC INSTRUMENTS, INC.
BURKE & JAMES
CURTIS INSTRUMENTS
ENGINEERING ASSOCIATES
GENERAL ELECTRIC CO
GIBBS MFG. AND RESEARCH CORP.
G-V CONTROLS INC.
HICKOK ELECTRICAL INSTRUMENT
MALLORY DISTRIBUTOR PRODUCTS
SELA ELECTRONICS CO.

TIMERS, MANUAL
THE ELMOR COMPANY
JULES RACINE CO INC

TOOLS, CLAMPS
AMECO, INC.

TOOLS, CRIMPERS
AEROVOX CORP.
AMECO, INC.
AMERICAN PAMCOR, INC
BLONDFR-TONGUE LABORATORIES
BUCHANAN ELECTRICAL PRODS CORP
HOLLINGSWORTH SOLDERLESS
TERMINAL CO
MATHIAS KLEIN & SONS
MINNESOTA MINING - 3 M
H. K. PORTER INC.
THE THOMAS & BETTS CO

TOOLS, CUTTERS
MATHIAS KLEIN & SONS
H. K. PORTER INC.
THE THOMAS & BETTS CO
XCELITE INCORPORATED

TOOLS, HAND
ELECTRONICS ESSENTIALS OF CCC
HOLLINGSWORTH SOLDERLESS
TERMINAL CO
MATHIAS KLEIN & SONS
H. K. PORTER INC.
SINGER PRODUCTS CO.
THE THOMAS & BETTS CO
UPSON BROS.
XCELITE INCORPORATED

TOOLS, PLIERS
MATHIAS KLEIN & SONS
SINGER PRODUCTS CO.
XCELITE INCORPORATED

TOOLS, PUNCH, CHASSIS
GREENLEE TOOL COMPANY

TOOLS, SCREWDRIVERS
ELECTRONICS ESSENTIALS OF CCC
G C ELECTRONICS COMPANY
MATHIAS KLEIN & SONS
SINGER PRODUCTS CO.
UPSON BROS.
XCELITE INCORPORATED

TOOLS, SOLDERING IRONS, GUN
SINGER PRODUCTS CO.

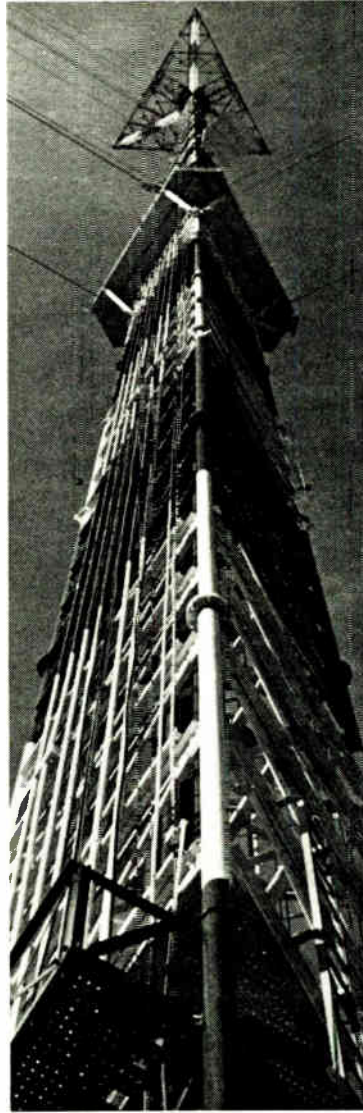
TOOLS, SOLDERING IRONS, INDUSTRIAL
SINGER PRODUCTS CO.
UNGAR ELECTRIC TOOLS

TOOLS, WRENCHES
ELECTRONICS ESSENTIALS OF CCC
MATHIAS KLEIN & SONS
XCELITE INCORPORATED

TOWERS, ANTENNA, CATV, HEAD-END
ADVANCE INDUSTRIES
AMECO, INC.
AMPLIVISION CORPORATION
ANTENNA PRODUCTS COMPANY
BLAW-KNOX COMPANY
DRESSER CRANE HOIST & TOWER
FORT WORTH TOWER CO., INC.
HY-GAIN ELECTRONICS
JERROLD ELECTRONICS CORP
KLINE IRON & STEEL COMPANY
LIBERTY TOWER MFG. CO



At Rochester, N. Y., this self-supporting tower gives the WOKR antenna 306.5' elevation above the ground.



Candelabra® tower carries 3 antenna as high as 1549' above ground for KCRA-TV, KOVR, KXTV.

TOWERS BY DRESSER FOR TV, RADIO, MICROWAVE, RADAR

TV AND RADIO BROADCAST ANTENNA TOWERS—Types: guyed or self-supporting. Can be insulated. Guyed available with fixed or pivoted base. *Heights:* available in any height. *Wind Loads:* 20 lb. through 90 lb. available as standard. Heavier loads available when required. *Antenna Loads:* designs available for any single TV or radio antenna, or any combination of antennas in stacked, side-mounted, or Candelabra (R) arrangements.

MICROWAVE TOWERS—Types: guyed or self-supporting. *Heights:* 50' through 300' available as standard. Greater heights available when required. *Wind Loads:* 30 lb. and 40 lb. loads standard. Heavier loads available when required. *Antenna Loads:* design available to support any combination of microwave equipment.

RADAR TOWERS—Types, heights and loads custom-designed to meet any requirement for support of radar equipment. Extensive experience in the design of radar structures for the Government.

SPECIAL DESIGNS—Large, experienced engineering staff and well-equipped fabricating plant capable of creating and fabricating towers of any kind, height or type for any requirement.

TOWER ELEVATORS—All steel elevator for TV and radio towers, rated for 750 lb. load, radio controlled, completely equipped with automatic safeties.

TOWER ERECTION AND INSPECTION—Complete tower erection and inspection service under supervision of graduate engineers.

DRESSER

CRANE, HOIST & TOWER DIVISION

one of the Dresser Industries
(formerly Dresser-Ideco Co.)

885 Michigan Ave., Columbus, Ohio 43215
Phone area 614, 299-2123 • TWX 614-759-0672
Branch: 2314 Redondo Beach Blvd., Gardena, Calif. 90247

LITTLE JOE ENTERPRISES
MASTER TOWER CO
MICROFLECT COMPANY INC.
PACIFIC TOWER CO
RDHM MANUFACTURING CO.
STAINLESS, INC.
SWAGER TOWER CORPORATION
UNITED STATES TOWERS
UP-RIGHT SCAFFOLDS
UTILITY TOWER CO.

TOWERS, ANTENNA, RECEIVING

ADVANCE INDUSTRIES
AMECO, INC.
ANTENNA PRODUCTS COMPANY
DRESSER CRANE HOIST & TOWER
FORT WORTH TOWER CO., INC.
FLINE IRON & STEEL COMPANY
LIBERTY TOWER MFG. CO
LITTLE JOE ENTERPRISES
MASTER TOWER CO
MICROFLECT COMPANY INC.
PACIFIC TOWER CO
RDHM MANUFACTURING CO.
SINGER PRODUCTS CO
STAINLESS, INC.
SWAGER TOWER CORPORATION
TRYLON INCORPORATED
UNITED STATES TOWERS
UP-RIGHT SCAFFOLDS
UTILITY TOWER CO.

TOWERS, ANTENNA,

TRANSMITTING, AM

ADVANCE INDUSTRIES
ANTENNA PRODUCTS COMPANY
BLAW-KNOX COMPANY
CCA ELECTRONICS CORPORATION
DRESSER CRANE HOIST & TOWER
FORT WORTH TOWER CO., INC.
GATES RADIO COMPANY
JAMPRO ANTENNA COMPANY
KLINE IRON & STEEL COMPANY
LIBERTY TOWER MFG. CO
LITTLE JOE ENTERPRISES
MASTER TOWER CO
MICROFLECT COMPANY INC.
GUNNAR A OLSEN CORP
PACIFIC TOWER CO
RCA BROADCAST PRODS.
RDHM MANUFACTURING CO.
SINGER PRODUCTS CO
STAINLESS, INC.
SWAGER TOWER CORPORATION
TRYLON INCORPORATED
UNITED STATES TOWERS
UP-RIGHT SCAFFOLDS
UTILITY TOWER CO.
VISUAL ELECTRONICS CORP

TOWERS, ANTENNA,

TRANSMITTING, FM

ADVANCE INDUSTRIES
ANTENNA PRODUCTS COMPANY
BLAW-KNOX COMPANY
CCA ELECTRONICS CORPORATION
DRESSER CRANE HOIST & TOWER
FORT WORTH TOWER CO., INC.
GATES RADIO COMPANY
JAMPRO ANTENNA COMPANY
KLINE IRON & STEEL COMPANY
LIBERTY TOWER MFG. CO
LITTLE JOE ENTERPRISES
MASTER TOWER CO
MICROFLECT COMPANY INC.
GUNNAR A OLSEN CORP
PACIFIC TOWER CO
RCA BROADCAST PRODS.
RDHM MANUFACTURING CO.
SINGER PRODUCTS CO
STAINLESS, INC.
SWAGER TOWER CORPORATION
TRYLON INCORPORATED
UNITED STATES TOWERS
UP-RIGHT SCAFFOLDS
UTILITY TOWER CO.
VISUAL ELECTRONICS CORP

TOWERS, ANTENNA,

TRANSMITTING, TV

ADVANCE INDUSTRIES
ANTENNA PRODUCTS COMPANY
BLAW-KNOX COMPANY
DRESSER CRANE HOIST & TOWER
FORT WORTH TOWER CO., INC.
GATES RADIO COMPANY
JAMPRO ANTENNA COMPANY
KLINE IRON & STEEL COMPANY
LIBERTY TOWER MFG. CO
MASTER TOWER CO
MICROFLECT COMPANY INC.
GUNNAR A OLSEN CORP
PACIFIC TOWER CO
RCA BROADCAST PRODS.
RDHM MANUFACTURING CO.
SINGER PRODUCTS CO.
STAINLESS, INC.
SWAGER TOWER CORPORATION
TRYLON INCORPORATED
UNITED STATES TOWERS
UP-RIGHT SCAFFOLDS
UTILITY TOWER CO.
VISUAL ELECTRONICS CORP

TRANSFORMERS, AUDIO, ISOLATION

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
ESSEX WIRE CORPORATION
GOTHAM AUDIO CORPORATION
LAFAYETTE RADIO ELECTRONICS
PERMOFLUX CORPORATION
RCA BROADCAST PRODS.
ROHDE & SCHWARZ SALES CO. -USA
STACO, INC.

TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, AUDIO, MATCHING

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
ATLAS SOUND
ESSEX WIRE CORPORATION
GENERAL RADIO CO
GOTHAM AUDIO CORPORATION
LAFAYETTE RADIO ELECTRONICS
LAKE ELECTRONICS, INC.
PERMOFLUX CORPORATION
RCA BROADCAST PRODS.
ROHDE & SCHWARZ SALES CO. -USA
STACO, INC.
TRW ELECTRONICS
TV CARLE SUPPLY CO
UNITED TRANSFORMER COMPANY

TRANSFORMERS, AUDIO,

DRIVE OUTPUT
ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
ESSEX WIRE CORPORATION
LAFAYETTE RADIO ELECTRONICS
LAKE ELECTRONICS, INC.
MILFS REPRODUCER CO
PERMOFLUX CORPORATION
STACO, INC.
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, AUTO

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
CRAFTSMAN ELECTRONICS PRODUCTS
ESSEX WIRE CORPORATION
GENERAL ELECTRIC CO
GENERAL RADIO CO
HUGHES & PHILLIPS
LAFAYETTE RADIO ELECTRONICS
PERMOFLUX CORPORATION
SINGER PRODUCTS CO.
SOLA ELECTRIC
STACO, INC.
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, COUPLING

ADC PRODUCTS
ALTEC LANSING
ESSEX WIRE CORPORATION
PERMOFLUX CORPORATION
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, FILAMENT

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
ENGINEERING ASSOCIATES
ESSEX WIRE CORPORATION
GENERAL ELECTRIC CO
LAFAYETTE RADIO ELECTRONICS
LAKE ELECTRONICS, INC.
PERMOFLUX CORPORATION
SOLA ELECTRIC
STACO, INC.
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, GENERAL

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
ANACONDA ASTRODATA CO
ESSEX WIRE CORPORATION
G E INDUSTRIAL SALES OPERATION
GENERAL ELECTRIC CO
LAFAYETTE RADIO ELECTRONICS
LAKE ELECTRONICS, INC.
PERMOFLUX CORPORATION
SINGER PRODUCTS CO.
SOLA ELECTRIC
STACO, INC.
TRW ELECTRONICS
TV CARLE SUPPLY CO
UNITED TRANSFORMER COMPANY

TRANSFORMERS, PLATE

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
ESSEX WIRE CORPORATION
LAKE ELECTRONICS, INC.
PERMOFLUX CORPORATION
SOLA ELECTRIC
STACO, INC.
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, POWER

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ALTEC LANSING
ENGINEERING ASSOCIATES
ESSEX WIRE CORPORATION
GENERAL ELECTRIC CO
HUGHES & PHILLIPS
LAFAYETTE RADIO ELECTRONICS
LAKE ELECTRONICS, INC.
PERMOFLUX CORPORATION
SOLA ELECTRIC
STACO, INC.
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, RF

ADC PRODUCTS
ALLIED ELECTRONICS CORP
AMERICAN CABLE ELECTRONICS
ANTENNA PRODUCTS COMPANY

BARKER & WILLIAMSON
BLONDER-TONGUE LABORATORIES
CRAFTSMAN ELECTRONICS PRODUCTS
D & B ELECTRONICS COMPANY
ESSEX WIRE CORPORATION
KAPPA NETWORKS, INC.
LAKE ELECTRONICS, INC.
MICROLAB / FXR
J. W. MILLER CO.
THE TECHNICAL MATERIEL CORP

TRANSFORMERS, TRANSISTOR

ADC PRODUCTS
ALLIED ELECTRONICS CORP
ESSEX WIRE CORPORATION
GOTHAM AUDIO CORPORATION
LAFAYETTE RADIO ELECTRONICS
LAKE ELECTRONICS, INC.
STACO, INC.
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSFORMERS, VARIABLE

ALLIED ELECTRONICS CORP
ENGINEERING ASSOCIATES
ESSEX WIRE CORPORATION
GENERAL ELECTRIC CO
GENERAL RADIO CO
LAKE ELECTRONICS, INC.
WHITE MANUFACTURING COMPANY
STACO, INC.
TRW ELECTRONICS
UNITED TRANSFORMER COMPANY

TRANSISTORS -

SFE SEMICONDUCTORS

TRANSLATOR SYSTEMS

AMPLIFICATION CORPORATION
KEITH ANDERSON CO
RFCO TELEVISION ASSOCIATES
CATEL COMPANY
EMCEE
F & M SYSTEMS COMPANY
LITTON EDUCATIONAL TELE DIV
TOWNSEND ASSOCIATES

TRANSMISSION LINES

AMECO, INC.
ANDREW CORPORATION
ANTENNA PRODUCTS COMPANY
COPPERWELD STEEL COMPANY
GATES RADIO COMPANY
JAMPRO ANTENNA COMPANY
JERROLD ELECTRONICS CORP
MICROWAVE ASSOCIATES, INC.
NARDA MICROWAVE CORPORATION
PHELPS ODGEE
RCA BROADCAST PRODS.
TRYLON INCORPORATED
VISUAL ELECTRONICS CORP

TRANSMISSION TEST SETS

NARDA MICROWAVE CORPORATION
PHELPS ODGEE
RCA BROADCAST PRODS.
RIKER VIDEO INDUSTRIES
VISUAL ELECTRONICS CORP
WAVEFORMS, INCORPORATED

TRANSMITTER KITS

ALLIED ELECTRONICS CORP
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
GATES RADIO COMPANY
E F JOHNSON COMPANY
MILES REPRODUCER CO
SINGER PRODUCTS CO

TRANSMITTERS, AM, LOW POWER

BAUER ELECTRONICS CORPORATION
LOW POWER

TRANSMITTERS, AM, 25^W WATT

AMERICAN ELECTRONIC LABS
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
E F JOHNSON COMPANY
SINGER PRODUCTS CO
TELETRONIX

TRANSMITTERS, AM, 1KW

AMERICAN ELECTRONIC LABS
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
E F JOHNSON COMPANY
MARCONI DIVISION
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
TELETRONIX
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

TRANSMITTERS, AM, 5KW

AMERICAN ELECTRONIC LABS
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
CONTINENTAL ELECTRONICS MFG
GATES RADIO COMPANY
RCA BROADCAST PRODS.
ROHDE & SCHWARZ SALES CO. -USA
SINGER PRODUCTS CO
TELETRONIX
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

TRANSMITTERS, AM, 10KW

AMERICAN ELECTRONIC LABS
AMERICAN ELITE
BAUER ELECTRONICS CORPORATION

CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
CONTINENTAL ELECTRONICS MFG
GATES RADIO COMPANY
MARCONI DIVISION
RCA BROADCAST PRODS.
ROHDE & SCHWARZ SALES CO. -USA
SINGER PRODUCTS CO
TELETRONIX
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

TRANSMITTERS, AM, 25 KW

AMERICAN ELECTRONIC LABS
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
CONTINENTAL ELECTRONICS MFG
GATES RADIO COMPANY
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
VISUAL ELECTRONICS CORP

TRANSMITTERS, AM, 50 KW

AMERICAN ELECTRONIC LABS
AMERICAN ELITE
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
CONTINENTAL ELECTRONICS MFG
GATES RADIO COMPANY
MARCONI DIVISION
RCA BROADCAST PRODS.
SINGER PRODUCTS CO
TELETRONIX
VISUAL ELECTRONICS CORP

TRANSMITTERS, AM, OVER 50 KW

AMERICAN ELITE
CCA ELECTRONICS CORPORATION
CONTINENTAL ELECTRONICS MFG
GATES RADIO COMPANY
MARCONI DIVISION
SINGER PRODUCTS CO

TRANSMITTERS, AM, TO ORDER

EITEL ELECTRONICS

TRANSMITTERS, FM

MILES REPRODUCER CO
ROHDE & SCHWARZ SALES CO. -USA
THOMSON ELECTRIC CO

TRANSMITTERS, FM, 10 WATTS

AMERICAN ELECTRONIC LABS
CCA ELECTRONICS CORPORATION
GATES RADIO COMPANY
MARTI ELECTRONICS
MOSELEY ASSOCIATES INC.
SINGER PRODUCTS CO

TRANSMITTERS, FM, 50 WATTS

GATES RADIO COMPANY

TRANSMITTERS, FM, 100 WATTS

CCA ELECTRONICS CORPORATION
MARTI ELECTRONICS
RHG ELECTRONICS LABORATORY
SINGER PRODUCTS CO

TRANSMITTERS, FM, 250 WATTS

AMERICAN ELECTRONIC LABS
CCA ELECTRONICS CORPORATION
GATES RADIO COMPANY
SINGER PRODUCTS CO
STANDARD ELECTRONICS CORP.
TELETRONIX

TRANSMITTERS, FM, 1 KW

AMERICAN ELECTRONIC LABS
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
MARCONI DIVISION
RCA BROADCAST PRODS.
RHG ELECTRONICS LABORATORY
SINGER PRODUCTS CO
STANDARD ELECTRONICS CORP.
TELETRONIX
WILKINSON ELECTRONICS, INC

TRANSMITTERS, FM, 3 KW

BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
GATES RADIO COMPANY
TELETRONIX
VISUAL ELECTRONICS CORP

TRANSMITTERS, FM, 5 KW

AMERICAN ELECTRONIC LABS
AMERICAN ELITE
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
MARCONI DIVISION
RCA BROADCAST PRODS
SINGER PRODUCTS CO
STANDARD ELECTRONICS CORP.
TELETRONIX
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

TRANSMITTERS, FM, 7.5 KW

AMERICAN ELECTRONIC LABS
BAUER ELECTRONICS CORPORATION
GATES RADIO COMPANY
WILKINSON ELECTRONICS, INC

TRANSMITTERS, FM, 10 KW

AMERICAN ELECTRONIC LABS
AMERICAN ELITE
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
RCA BROADCAST PRODS

CONTINENTAL'S TYPE 317C_____

Within 18 months following its introduction, Continental had sold 13 Type 317C transmitters. Here's why:

OVERALL EFFICIENCY:

62% or better

PLATE EFFICIENCY:

80% or better

POWER CONSUMPTION:

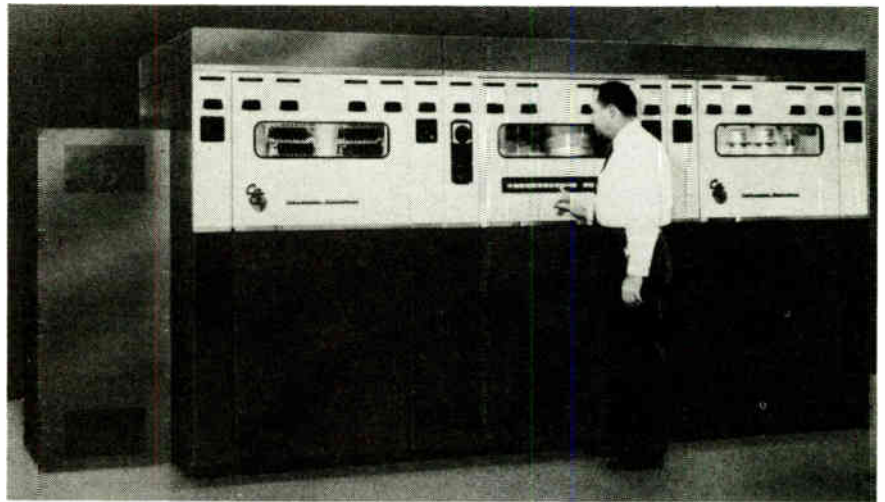
82 kw @ 0 modulation

92 kw @ 30% modulation

120 kw @ 100% modulation

SELF-CONTAINED: compact design assures minimum installation cost. The 317C uses only 62 sq. ft. of total floor space. Blower is contained within transmitter cabinet. One neat package for the world's most efficient 50 kw AM broadcast transmitter.

THE WORLD'S MOST EFFICIENT 50KW
AM BROADCAST TRANSMITTER!

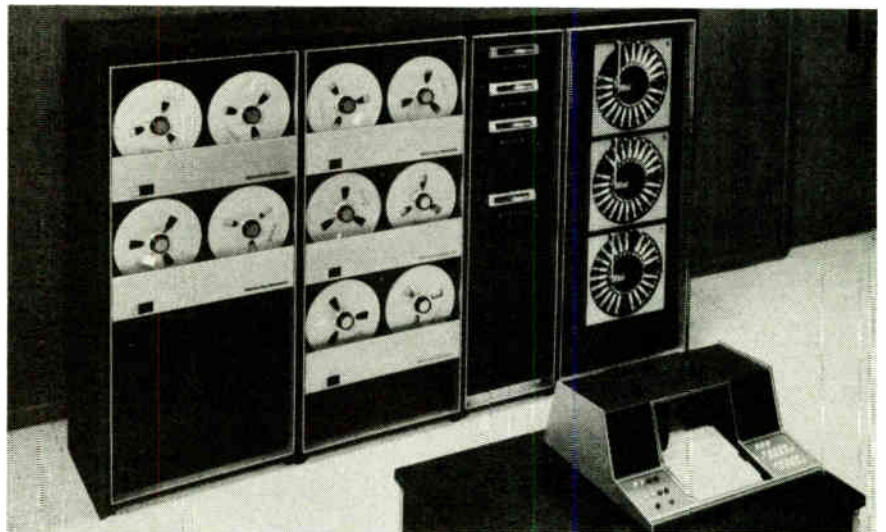


OTHER CONTINENTAL BROADCAST TRANSMITTERS range in power from 5,000 watts to 1,000,000 watts.

CONTINENTAL'S PROLOG-AUTOMATIC PROGRAMMING & LOGGING AS EASY AS TYPING UP YOUR STATION LOG!

Prolog uses your station log to provide any degree or combination of unattended, automatic or manual-live operation desired. Your log can be prepared on any standard electric typewriter, or you can use any of the auto-typing, IBM punch-card and similar equipment in use today. PROLOG uses your established programming format; nothing changes unless you want to change it. That's PROLOG: simple and flexible!

For additional information on Continental transmitters or PROLOG Systems, write Commercial Sales Dept; Continental Electronics Mfg. Co.; Box 17040, Dallas, Texas 75217



Continental Electronics 
A SUBSIDIARY OF **LTV** ELECTROSYSTEMS, INC.

RHG ELECTRONICS LABORATORY
STANDARD ELECTRONICS CORP.
TELETRONIX
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

TRANSMITTERS, FM, 15 KW
CCA ELECTRONICS CORPORATION
GATES RADIO COMPANY

TRANSMITTERS, FM, 20 KW
AMERICAN ELECTRONIC LABS
BAUER ELECTRONICS CORPORATION
CCA ELECTRONICS CORPORATION
COLLINS RADIO COMPANY
GATES RADIO COMPANY
RCA BROADCAST PRODS
SINGER PRODUCTS CO
STANDARD ELECTRONICS CORP.
VISUAL ELECTRONICS CORP
WILKINSON ELECTRONICS, INC

TRANSMITTERS, FM, 40 KW
CCA ELECTRONICS CORPORATION
GATES RADIO COMPANY
RCA BROADCAST PRODS

TRANSMITTERS, FM, 50 KW
AMERICAN ELITE

TRANSMITTERS, FM, 100 KW
AMERICAN ELITE

TRANSMITTERS, FM, TO ORDER
EITEL ELECTRONICS

TRANSMITTERS, TV
ROHDE & SCHWARZ SALES CO. -USA
THOMSON ELECTRIC CO

TRANSMITTERS, TV, 1 WATT
KEITH ANDERSON CO
EMCEE

TRANSMITTERS, TV, 10 WATTS
KEITH ANDERSON CO

TRANSMITTERS, TV, 20 WATTS
EMCEE

TRANSMITTERS, TV, 60 WATTS
UTICA CORPORATION

TRANSMITTERS, TV, 100 WATTS
EMCEE
GATES RADIO COMPANY

TRANSMITTERS, TV, 500 WATTS
GATES RADIO COMPANY
STANDARD ELECTRONICS CORP

TRANSMITTERS, TV, 1 KW
MARCONI DIVISION
FMCEE
SARKE-S-TARZIAN

TRANSMITTERS, TV, 2 KW
RCA BROADCAST PRODS

TRANSMITTERS, TV, 3 KW
TOWNSEND ASSOCIATES

TRANSMITTERS, TV, 5 KW
GATES RADIO COMPANY
MARCONI DIVISION
RCA BROADCAST PRODS
STANDARD ELECTRONICS CORP.

TRANSMITTERS, TV, 6 KW
RCA BROADCAST PRODS

TRANSMITTERS, TV, 10 KW
G E VISUAL COMMUNICATIONS PROD
MARCONI DIVISION
STANDARD ELECTRONICS CORP.

TRANSMITTERS, TV, 11.5W
RCA BROADCAST PRODS

TRANSMITTERS, TV, 12 KW
RCA BROADCAST PRODS

TRANSMITTERS, TV, 15 KW
TOWNSEND ASSOCIATES
VISUAL ELECTRONICS CORP

TRANSMITTERS, TV, 25 KW
MARCONI DIVISION
RCA BROADCAST PRODS
STANDARD ELECTRONICS CORP.

TRANSMITTERS, TV, 30 KW
G E VISUAL COMMUNICATIONS PROD
RCA BROADCAST PRODS
TOWNSEND ASSOCIATES
VISUAL ELECTRONICS CORP

TRANSMITTERS, TV, 35 KW
STANDARD ELECTRONICS CORP.

TRANSMITTERS, TV, 50 KW
G E VISUAL COMMUNICATIONS PROD
RCA BROADCAST PRODS
STANDARD ELECTRONICS CORP.

TRANSMITTERS, TV, 55 KW
TOWNSEND ASSOCIATES
VISUAL ELECTRONICS CORP

TRANSMITTERS, TV, 70 KW
STANDARD ELECTRONICS CORP.

TRANSMITTERS, TV, 100 KW
G E VISUAL COMMUNICATIONS PROD
TOWNSEND ASSOCIATES

TRANSMITTERS, TV, 150 KW
RCA BROADCAST PRODS

TRANSMITTERS, TV, TO ORDER
FITTEL ELECTRONICS

TUBING - SEE HARDWARE

TURNTABLES, PHONOGRAPH
BENJAMIN ELECTRONIC SOUND CORP
DISPLAY TECHNOLOGIES INC
FAIRCHILD RECORDING EQUIPMENT
GOTHAM AUDIO CORPORATION
GRAY RESEARCH & DEVELOPMENT CO
KOSS ELECTRONICS, INC.
MARANTZ COMPANY
Q R K ELECTRONIC PRODUCTS
RCA BROADCAST PRODS.
RUSSCO ELECTRONICS MFG.
SINGER PRODUCTS CO
SONY CORPORATION OF AMERICA
SPARTA ELECTRONIC CORPORATION
TELETRON INDUSTRIES CORP
VISUAL ELECTRONICS CORP
THE SINGER CO - METRICS DIV

TV SYSTEMS, CLOSED CIRCUIT
AMECO, INC.
AMERICAN CABLE ELECTRONICS
AMPEX CORPORATION
AMPLIFIKON CORPORATION
ANACONDA ASTRODATA CO
BALL PROTHERS RESEARCH
BIONIC INSTRUMENTS, INC.
BLONDER-TONGUE LABORATORIES
CENTRAL DYNAMICS CORPORATION
COMU ELECTRONICS
COLORADO VIDEO
DAGE BELL CORPORATION
DIAMOND ELECTRONICS
DIECRAFT, INC
F & M SYSTEMS COMPANY
THE JAMES FLOYD FORD CO
GPC AMERICA CORPORATION
G E VISUAL COMMUNICATIONS PROD
GENERAL ELECTRIC CO
JERROLD ELECTRONICS CORP
J W ELECTRONICS COMPANY
KAISER-CD
THE KALART COMPANY
LITTON EDUCATIONAL TELE DIV
MARCONI DIVISION
MARYLAND TELECOMMUNICATIONS
MICRO-LINK SYSTEMS/VARIAN ASSO
MIRAFEL ELECTRONICS, INC
MVR CORPORATION
RCA BROADCAST PRODS.
RIKER VIDEO INDUSTRIES
SARKE-S-TARZIAN
SETCHELL CARLSON INCORPORATED
SIGMA INDUSTRIES
SONY CORPORATION OF AMERICA
SPENCER-KENNEDY LABORATORIES
STANDARD ELECTRONICS CORP.
S. STERLING COMPANY
SYLVANIA-COMM. ELECTRONICS DIV
TELFATION, INC.
TELEMET COMPANY
TELEQUIP CORPORATION
TELEVISION UTILITIES CORP
TELTRON, INC
THOMSON ELECTRIC CO

VACUUM TUBES, BALLAST
AMPERITE CO
LEWIS AND KAUFMAN, LTD.
THOR ELECTRONICS

VACUUM TUBES, CAMERA, IMAGE-ORTHOICON
AMPEREX ELECTRONIC CORP
THE ENGLISH ELECTRIC CORP.
G E PICKUP TUBE OPERATION
RCA ELECTRONIC COMPONENTS
TELEQUIP CORPORATION
TELTRON, INC
THOR ELECTRONICS
VISUAL ELECTRONICS CORP
WESTINGHOUSE ELECTRIC CORP

VACUUM TUBES, CAMERA, PLUMBICON
AMPEREX ELECTRONIC CORP
NORTH AMERICAN PHILIPS CO
VISUAL ELECTRONICS CORP

VACUUM TUBES, CAMERA, VIOICON
AMPEREX ELECTRONIC CORP
THE ENGLISH ELECTRIC CORP.
GBC AMERICA CORPORATION
G E PICKUP TUBE OPERATION
LEWIS AND KAUFMAN, LTD.
NORTH AMERICAN PHILIPS CO
RCA ELECTRONIC COMPONENTS
TELEQUIP CORPORATION
TELEVISION UTILITIES CORP
THOR ELECTRONICS
VISUAL ELECTRONICS CORP
WESTINGHOUSE ELECTRIC CORP

VACUUM TUBES, CATHODE RAY, OSCILLOSCOPE
TEKTRONIX INC

VACUUM TUBES, CATHODE RAY, TV, COLOR
G E DISTRIBUTOR SALES FORCE
RCA ELECTRONIC COMPONENTS
SINGER PRODUCTS CO
THOR ELECTRONICS
WESTINGHOUSE ELECTRIC CORP

VACUUM TUBES, CATHODE RAY, TV, MONOCHROME
AMERICAN ELITE
CONRAC
G E DISTRIBUTOR SALES FORCE

LEWIS AND KAUFMAN, LTD.
RCA ELECTRONIC COMPONENTS
SINGER PRODUCTS CO.
THOR ELECTRONICS
WESTINGHOUSE ELECTRIC CORP

VACUUM TUBES, RECEIVING
AMERICAN ELITE
AMPEREX ELECTRONIC CORP
CALVERT ELECTRONICS
G E DISTRIBUTOR SALES FORCE
HEINTZ & KAUFMAN, LTD
LEWIS AND KAUFMAN, LTD.
MICROWAVE ASSOCIATES, INC.
RCA ELECTRONIC COMPONENTS
SINGER PRODUCTS CO.
TELEQUIP CORPORATION
THOR ELECTRONICS
WESTINGHOUSE ELECTRIC CORP

VACUUM TUBES, TRANSMITTING
AMECO, INC.
AMERICAN ELITE
AMPEREX ELECTRONIC CORP
CALVERT ELECTRONICS
CCA ELECTRONICS CORPORATION
FIMAC DIVISION OF VARIAN
THE ENGLISH ELECTRIC CORP.
G E DISTRIBUTOR SALES FORCE
HEINTZ & KAUFMAN, LTD
JOA CARTRIDGE SERVICE
LEWIS AND KAUFMAN, LTD.
THE MACLETT LABORATORIES
MICROWAVE ASSOCIATES, INC.
RCA ELECTRONIC COMPONENTS
THOR ELECTRONICS
WESTINGHOUSE ELECTRIC CORP

VESTIGIAL SIDEBAND FILTERS
ALFORD MANUFACTURING COMPANY
G E VISUAL COMMUNICATIONS PROD
JAMPRO ANTENNA COMPANY
VISUAL ELECTRONICS CORP

VOLTMETERS, AC
ALLIED ELECTRONICS CORP
API INSTRUMENTS CO.
COMU ELECTRONICS
COLUMBIA ELECTRIC MFG CO
DATA INSTRUMENT DIVISION
ENGINEERING ASSOCIATES
G E INDUSTRIAL SALES OPERATION
GENERAL ELECTRIC CO
GENERAL RADIO CO
GOTHAM AUDIO CORPORATION
HEATH CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
INSTRUMENT LABORATORIES CORP
MOTOROLA COMMUNICATIONS
RCA ELECTRONIC COMPONENTS
ROHDE & SCHWARZ SALES CO. -USA
THE SINGER CO - METRICS DIV
TEXAS ELECTRONICS
TRIPLETT ELECTRICAL INSTRUMENT
WABER ELECTRONICS, INC.
WAVEFORMS, INCORPORATED
YOKOGAWA ELECTRIC WORKS

VOLTMETERS, DC
ALLIED ELECTRONICS CORP
API INSTRUMENTS CO.
COMU ELECTRONICS
COLUMBIA ELECTRIC MFG CO
DATA INSTRUMENT DIVISION
ENGINEERING ASSOCIATES
G E INDUSTRIAL SALES OPERATION
GENERAL ELECTRIC CO
GENERAL RADIO CO
HEATH CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
MOTOROLA COMMUNICATIONS
RCA ELECTRONIC COMPONENTS
ROHDE & SCHWARZ SALES CO. -USA
THE SINGER CO - METRICS DIV
TEXAS ELECTRONICS
TRIPLETT ELECTRICAL INSTRUMENT
YOKOGAWA ELECTRIC WORKS

VOLTMETERS, VACUUM TUBE
COMU ELECTRONICS
ENGINEERING ASSOCIATES
GENERAL RADIO CO
HEATH CO
HEWLETT-PACKARD CO.
HICKOK ELECTRICAL INSTRUMENT
INSTRUMENT LABORATORIES CORP
RCA ELECTRONIC COMPONENTS
ROHDE & SCHWARZ SALES CO. -USA
TRIPLETT ELECTRICAL INSTRUMENT
WAVEFORMS, INCORPORATED
BENRUS

WATTMETERS
F W BELL, INC
BIRD ELECTRONIC CORPORATION
ENGINEERING ASSOCIATES
G E INDUSTRIAL SALES OPERATION
GENERAL ELECTRIC CO
GENERAL MICROWAVE CORPORATION
MOTOROLA COMMUNICATIONS
RCA BROADCAST PRODS.
ROHDE & SCHWARZ SALES CO. -USA
THE SINGER CO - METRICS DIV
STANDARD ELECTRONICS CORP.
TRIPLETT ELECTRICAL INSTRUMENT
WATERS MANUFACTURING
YOKOGAWA ELECTRIC WORKS

WAVEGUIDE AND ASSOCIATED COMPONENTS
ANDREW CORPORATION
CARDWELL CONDENSER CORP
COOK ELECTRIC COMPANY

D & B ELECTRONICS COMPANY
DEMORAY - BONARDI DIVISION
GENERAL MICROWAVE CORPORATION
HEWLETT-PACKARD CO.
JERROLD ELECTRONICS CORP
MICROLAB / FXR
MICRO-LINK SYSTEMS/VARIAN ASSO
MICROWAVE ASSOCIATES, INC.
PHELPS DODGE
RCA BROADCAST PRODS.
SCIENTIFIC-ATLANTA
TECHNICAL APPLIANCE CORP

WEATHER INSTRUMENTS
AMCO, INC.
BECKMAN & WHITLEY
BLONDER-TONGUE LABORATORIES
TELFIS CORPORATION
TEXAS ELECTRONICS

WINDERS, CARTRIDGE
BROADCAST ELECTRONICS, INC

WIRE, BARE, COPPER
ALLIED ELECTRONICS CORP
ALPHA WIRE
AMECO, INC.
RELDEN MANUFACTURING CO
BIRNBACH CO
CCA ELECTRONICS CORPORATION
JAMPRO ANTENNA COMPANY
PACIFIC TOWER CO
RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
SAXTON PRODUCTS
SWAGER TOWER CORPORATION
UTILITY TOWER CO.

WIRE, BARE, COPPER STRAP
ALPHA WIRE
CCA ELECTRONICS CORPORATION
JAMPRO ANTENNA COMPANY
RCA BROADCAST PRODS.
SAXTON PRODUCTS
SWAGER TOWER CORPORATION
UTILITY TOWER CO.

WIRE, BARE, STEEL
COPPERWELD STEEL COMPANY
SAXTON PRODUCTS

WIRE, INSULATED, HIGH VOLTAGE
ALPHA WIRE
RELDEN MANUFACTURING CO
BIRNBACH CO
BOSTON INSULATED WIRE & CABLE
ITT WIRE & CABLE DIVISION
LENZ ELECTRIC MANUFACTURING CO
SAXTON PRODUCTS
SINGER PRODUCTS CO.
TENSOLITE INSULATED WIRE CO.

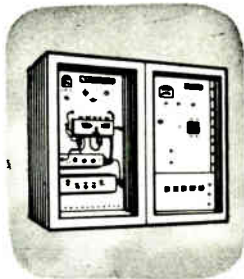
WIRE, INSULATED, HOOKUP
ALLIED ELECTRONICS CORP
ALPHA WIRE
RELDEN MANUFACTURING CO
BIRNBACH CO
ITT WIRE & CABLE DIVISION
LENZ ELECTRIC MANUFACTURING CO
RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
SAXTON PRODUCTS
SUPERIOR CABLE CORPORATION
TENSOLITE INSULATED WIRE CO.

WIRE, SHIELDED
ALLIED ELECTRONICS CORP
ALPHA WIRE
RELDEN MANUFACTURING CO
BIRNBACH CO
BOSTON INSULATED WIRE & CABLE
ITT WIRE & CABLE DIVISION
LENZ ELECTRIC MANUFACTURING CO
RCA BROADCAST PRODS.
ROBINS INDUSTRIES CORP.
SAXTON PRODUCTS
SINGER PRODUCTS CO.
TELEQUIP CORPORATION
TENSOLITE INSULATED WIRE CO.

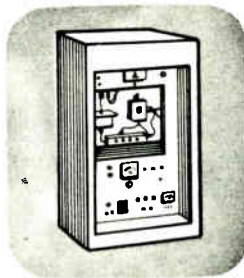
WIRING & CABLING SERVICES
ALPHA WIRE
AMECO, INC.
APPLIED ELECTRO-MECHANICS
AUDIO ACCESSORIES
BOSTON INSULATED WIRE & CABLE
D & B ELECTRONICS COMPANY
ITT CANNON ELECTRIC
PALL TRINITY MICRO CORP
SAXTON PRODUCTS
TENSOLITE INSULATED WIRE CO.
VITRO ELECTRONICS

YOKES, DEFLECTION
AMERICAN ELITE
LAKE ELECTRONICS, INC.
SINGER PRODUCTS CO.
TELEQUIP CORPORATION

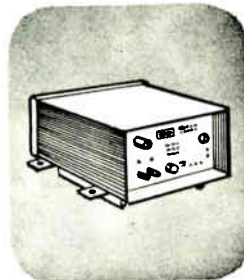
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Collins could sell FM transmitters for 20% less



BUT then they wouldn't be the best in the world

All Collins transmitters could be sold for less.

- Corners could be cut on transformers (narrowing safety margins for continuous operation).
- Less shielding could be used against spurious radiation (sacrificing some degree of stability).
- Standards on components, wiring, cabling and switches could be lowered.
- Collins' rigid testing could be bypassed.
- Meeting proper load conditions could be left to luck.
- Money devoted to research and development could be saved.
- Collins' 2-year warranty could be cut to the 1-year period of other manufacturers.

All these compromises could lower the price—as well as the *quality, performance and reliability* of the product—about 20%. But then Collins transmitters wouldn't be known for their careful engineering, conservatively-rated components, and precision manufacturing techniques.

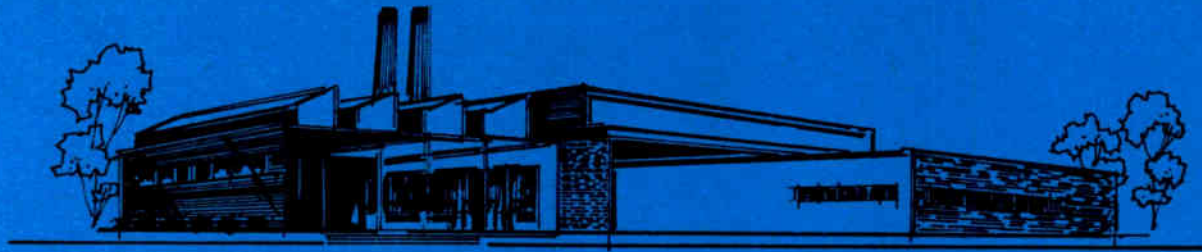
Collins gives the broadcaster a discount in the form of quality and service. And that's worth a lot more than 20%.

For technical information on any FM transmitter ranging from 250w to 20kw, contact Collins Radio Company, Broadcast Communication Division, Dallas, Texas. Area Code 214, AD 5-9511.

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GUIDE TO MANUFACTURERS

A listing of over 450 manufacturers active in the broadcast industry.
For a specific product, see Product Directory.

ACME FILM & VIDEOTAPE LABS. FILM, PROCESSING SERVICE

ACME VISIBLE RECORDS

CABINETS, METAL
CABINETS, STORAGE, DISC
CABINETS, STORAGE, FILM
CABINETS, STORAGE,
MAGNETIC TAPE
COMPUTER SERVICES
DESIGNATION CARDS & STRIPS
LOG BOOKS OR SHEETS
TERMINAL CARDS

ADC PRODUCTS

COILS, CHOKE, AF
COILS, HYBRID
COILS, TELEPHONE
CORDS, PATCH
FILTERS, AUDIO
FILTERS, RF
INDUCTANCES, FIXED
JACK PANEL ASSEMBLIES
JACKS
LAMPS, PANEL
PLUGS, COAXIAL
PLUGS, PHONE
POWER SUPPLIES, AC
POWER SUPPLIES, DC
TERMINAL BLOCKS
TERMINAL BOARDS
TERMINAL STRIPS
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, AUTO
TRANSFORMERS, COUPLING
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER
TRANSFORMERS, RF
TRANSFORMERS, TRANSISTOR

AIR SPACE DEVICES, INC. SAFETY DEVICES, CLIMBING

ADVANCE INDUSTRIES

ANCHORS, GUY
ANTENNAS, AM
ANTENNAS, CATV
ANTENNAS, MICROWAVE
HARDWARE, MOUNTS
REFLECTORS, PASSIVE
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM

TOWERS, ANTENNA,
TRANSMITTING, TV

AEROVOX CORP.

BOXES, DECADE, CAPACITOR
BOXES, DECADE, INDUCTOR
BOXES, DECADE, RESISTOR
CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED,
ELECTROLYTIC
CAPACITORS, FIXED, FILM
CAPACITORS, FIXED, METALLIZED
CAPACITORS, FIXED, MICA
CAPACITORS, FIXED, OIL-FILLED
CAPACITORS, FIXED, PAPER
CAPACITORS, FIXED, OTHER
DEMAGNETIZERS, BULK TAPE
FILTERS, AUDIO
FILTERS, RF
INTEGRATED CIRCUITS
KITS
RESISTORS, FIXED, CARBON
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, OTHER
SOCKETS, TUBE
TERMINALS, SOLDERLESS
TOOLS, CRIMPERS

AITKEN COMMUNICATIONS

AUTOMATION EQUIPMENT
PREAMPLIFIERS, AUDIO

ALBION OPTICAL COMPANY

LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
METERS, FLUTTER & NOW
REMOTE CONTROL SYSTEMS

ALFORD MANUFACTURING COMPANY

ANTENNAS, FM
ANTENNAS, TV
ANTENNAS, 2500 MHZ
BRIDGES
DIPLEXERS
DIVIDERS, POWER
MICROWAVE COMPONENTS
NETWORKS, MATCHING, RF
SLOTTED SECTIONS
SWITCHES, COAXIAL
VESTIGIAL SIDEBAND FILTERS

ALLIED ELECTRONICS CORP.

AMMETERS, AC
AMMETERS, DC
AMPLIFIER, AF, STEREO
ANTENNAS, FM
ANTENNAS, TV
CABINETS, METAL
CABLE, ARMORED
CABLE, SHIELDED, AUDIO
KITS
OSCILLOSCOPES
RECEIVERS, AM

RECEIVERS, FM
RECORDERS, MAGNETIC TAPE,
AUDIO

RELAYS, GENERAL PURPOSE
TAPE, MAGNETIC RECORDING,
AUDIO

TESTERS, VACUUM TUBE
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, AUTO
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER
TRANSFORMERS, RF
TRANSFORMERS, TRANSISTOR
TRANSFORMERS, VARIABLE
TRANSMITTER KITS
VOLTMETERS, AC
VOLTMETERS, DC
WIRE, BARE, COPPER
WIRE, INSULATED, HOOKUP
WIRE, SHIELDED

ALMA ENGINEERING

AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, STEREO
AMPLIFIER, BRIDGING
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, TV, VIDEO
AMPLIFIER, VIDEO, SWEEP
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, VIDEO, PORTABLE
CONSOLE, VIDEO, STUDIO
GENERATORS, SIGNAL,
SPECIAL EFFECTS
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
SWITCHES
SWITCHING MATRIXES
SWITCHING SYSTEMS

ALPHA WIRE

CABLE, ARMORED
CABLE, ASSEMBLIES
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
CABLE, DIRECT-BURIAL
CABLE, SHIELDED, AUDIO
CABLE, TELEPHONE
WIRE, BARE, COPPER
WIRE, BARE, COPPER STRAP

WIRE, INSULATED, HIGH VOLTAGE
WIRE, INSULATED, HOOKUP
WIRE, SHIELDED
WIRING AND CABLING SERVICES

ALTEC LANSING

AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, STEREO
AMPLIFIER, BRIDGING
AMPLIFIER, DC
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
BRIDGES
CAPACITORS, FIXED, METALLIZED
CAPACITORS, FIXED, MICA
CAPACITORS, FIXED, OIL-FILLED
CAPACITORS, FIXED, PAPER
CAPACITORS, FIXED, OTHER
CAPACITORS, VARIABLE
COILS, CHOKE, AF
COILS, CHOKE, RF
COILS, HYBRID
COILS, TELEPHONE
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COMMUNICATIONS SYSTEMS,
MICROWAVE
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, CABINETS
AND HARDWARE
CONSOLE, AUDIO, AM
CONVERTERS
ENCLOSURES, SPEAKER
EQUALIZERS, AUDIO EMPHASIS
FILTERS, AUDIO
FILTERS, OTHER
INVERTERS, DC TO AC, CHOPPER
INVERTERS, DC TO AC,
SOLID STATE
INVERTERS, DC TO AC,
VIBRATORS
METERS, DB AND VU
METERS, DB AND VU, WIDE RANGE
MICROPHONE HARDWARE
MICROPHONE STANDS & BOOMS
MICROPHONES, CONDENSER

MICROPHONES, DYNAMIC
 MONITORS, AM SYSTEMS
 MONITORS, FM SYSTEMS, MONO
 NETWORKS, MATCHING, AUDIO
 POTENTIOMETERS, WIREWOUND
 POWER SUPPLIES, AC
 POWER SUPPLIES, DC
 POWER SUPPLIES, PRECISION
 PREAMPLIFIERS, AUDIO
 RECEIVERS, FM
 REGULATORS, VOLTAGE
 SOUND SYSTEMS, OUTDOOR
 SOUND SYSTEMS, PORTABLE
 SOUND SYSTEMS, THEATER
 SPEAKER COMPONENTS
 SPEAKERS
 SWITCHES, MULTICONTACT
 SWITCHES, ROTARY
 TELEPHONE EQUIPMENT
 TRANSFORMERS, AUDIO,
 ISOLATION
 TRANSFORMERS, AUDIO, MATCHING
 TRANSFORMERS, AUDIO,
 POWER OUTPUT
 TRANSFORMERS, AUTO
 TRANSFORMERS, COUPLING
 TRANSFORMERS, FILAMENT
 TRANSFORMERS, GENERAL
 TRANSFORMERS, PLATE
 TRANSFORMERS, POWER

AMECO, INC.

ADAPTERS, CONNECTOR
 ADAPTERS, TEST
 AMPLIFIER, AF, AGC
 AMPLIFIER, BRIDGING
 AMPLIFIER, CATV
 AMPLIFIER, DISTRIBUTION
 AMPLIFIER, RF,
 GENERAL PURPOSE
 AMPLIFIER, TV, BOOSTER
 ANCHORS, GUY
 ANTENNAS, CATV
 ANTENNAS, FM
 ANTENNAS, MICROWAVE
 ANTENNAS, TV,
 MASTER-COMMUNITY
 ATTENUATORS, AUDIO
 ATTENUATORS,
 IMPEDANCE MATCHING
 ATTENUATORS, MICROWAVE
 ATTENUATORS, RF
 ATTENUATORS, VIDEO
 AUTOMATION EQUIPMENT
 BACKGROUND MUSIC SERVICE
 BALUNS
 BLOWERS AND FANS
 BRIDGES
 BROADCAST PROGRAMMING SERVICE
 CABINETS, METAL
 CABLE, ASSEMBLIES
 CABLE, CATV, HARDWARE
 CABLE, COAXIAL, FLEXIBLE
 CABLE, DIRECT-BURIAL
 CABLE, TELEPHONE
 CAMERA, MOUNTING EQUIPMENT
 CAMERA, REMOTE
 CONTROL EQUIPMENT
 CAMERAS, FILM, CINE
 CAMERAS, OSCILLOSCOPE
 CAMERAS, TV, COLOR
 CAMERAS, TV, MONOCHROME
 CATV EQUIPMENT - ALSO SEE
 OTHER CATEGORIES
 CATV, CABLE TERMINALS
 CATV, CHANNEL AMPLIFIERS
 CATV, HEAD-END EQUIPMENT
 CATV, ORIGINATION EQUIPMENT
 CIRCUITS, PRINTED
 CLAMPS, CABLE
 CLAMPS, GROUND
 CONNECTORS, ANTENNA
 CONNECTORS, COAXIAL CABLE
 CONNECTORS, POWER
 CONNECTORS, RF
 CONVERTERS
 COUPLERS
 DEMODULATORS
 FILTERS, ANTENNA
 FILTERS, RF
 GENERATORS, SIGNAL, RF
 HARDWARE, GENERAL
 HARDWARE, TOOLS
 HEAD-END EQUIPMENT,
 SEE CATV HEAD-END EQUIPMENT
 LENSES, OPTICAL, FIXED
 LENSES, OPTICAL, ZOOM
 LIGHTNING ARRESTERS
 MAINTENANCE SERVICES,
 MICROWAVE
 MICROPHONE HARDWARE
 MICROWAVE COMPONENTS
 MICROWAVE SYSTEMS, STL
 MODULATORS, TV
 MONITORS, FM SYSTEMS, MONO
 MONITORS, FM SYSTEMS, STEREO
 MONITORS, FREQUENCY
 MONITORS, VIDEO
 MOUNTS, ANTENNA, FIXED
 NARROW-BAND FM EQUIPMENT
 NETWORKS, MATCHING, RF
 PLUGS, COAXIAL
 POLE CLIMBING EQUIPMENT
 POWER SUPPLIES, AC
 POWER SUPPLIES, DC
 PREAMPLIFIERS, AUDIO
 PREAMPLIFIERS, VIDEO
 RACKS, MOUNTING
 RECEIVERS, FM
 RECEIVERS, TV, COLOR
 RECEIVERS, TV, MONOCHROME
 SWITCHES
 TAPE, MAGNETIC RECORDING,
 VIDEO
 TOOLS, CLAMPS
 TOOLS, CRIMPERS

TOWERS, ANTENNA,
 CATV, HEAD-END
 TOWERS, ANTENNA, RECEIVING
 TRANSMISSION LINES
 TV SYSTEMS, CLOSED CIRCUIT
 VACUUM TUBES, TRANSMITTING
 WEATHER INSTRUMENTS
 WIRE, BARE, COPPER
 WIRING AND CABLING SERVICES

AMERICAN CABLE ELECTRONICS

ADAPTERS, CONNECTOR
 CATV EQUIPMENT - ALSO SEE
 OTHER CATEGORIES
 CATV, ORIGINATION EQUIPMENT
 CONNECTORS, COAXIAL CABLE
 TRANSFORMERS, RF
 TV SYSTEMS, CLOSED CIRCUIT

AMERICAN ELECTRONIC LABS.

AMPLIFIER, CATV
 AMPLIFIER, RF, POWER
 ANTENNAS, MICROWAVE
 ANTENNAS, 2500 MHZ
 BALUNS
 CATV EQUIPMENT - ALSO SEE
 OTHER CATEGORIES
 CATV, CHANNEL AMPLIFIERS
 CATV, HEAD-END EQUIPMENT
 CATV, ORIGINATION EQUIPMENT
 COMMUNICATIONS SYSTEMS,
 MICROWAVE
 DUMMY LOAD
 EXCITERS, FM
 GENERATORS, FM, STEREO
 FILTERS, RF
 GENERATORS, FM, SUBCARRIER
 HEAD-END EQUIPMENT,
 SEE CATV HEAD-END EQUIPMENT
 MAINTENANCE SERVICES, AM
 MAINTENANCE SERVICES, FM
 MAINTENANCE SERVICES,
 MICROWAVE
 NETWORKS, PHASING
 RECEIVERS, HF
 SEMICONDUCTOR DIODES
 SWITCHES, COAXIAL
 SWITCHES, WAVEGUIDE
 TESTERS, SEMICONDUCTOR
 TRANSMITTERS, AM, 250 WATT
 TRANSMITTERS, AM, 1 KW
 TRANSMITTERS, AM, 5 KW
 TRANSMITTERS, AM, 10 KW
 TRANSMITTERS, AM, 25 KW
 TRANSMITTERS, AM, 50 KW
 TRANSMITTERS, FM, 10 WATTS
 TRANSMITTERS, FM, 250 WATTS
 TRANSMITTERS, FM, 1 KW
 TRANSMITTERS, FM, 5 KW
 TRANSMITTERS, FM, 7.5 KW
 TRANSMITTERS, FM, 10 KW
 TRANSMITTERS, FM, 20 KW

AMERICAN FLITE

CAPACITORS, FIXED, CERAMIC
 CAPACITORS, FIXED,
 ELECTROLYTIC
 CAPACITORS, FIXED, FILM
 CAPACITORS, VARIABLE
 COILS, DEFLECTION
 AND FOCUSING
 COMMUNICATIONS SYSTEMS,
 INTERCOM, WIRED
 COMMUNICATIONS SYSTEMS,
 LAND MOBILE
 COMMUNICATIONS SYSTEMS,
 MICROWAVE
 COMMUNICATIONS SYSTEMS,
 MULTIPLEX
 CONSOLE, AUDIO, RECORDING
 INTEGRATED CIRCUITS
 MICROPHONES, CONDENSER
 MICROPHONES, DYNAMIC
 MICROWAVE COMPONENTS
 MICROWAVE SYSTEMS, 2500 MHZ
 MOBILE EQUIPMENT
 POTENTIOMETERS, CARBON
 RECEIVERS, AM
 RECEIVERS, FM
 RECEIVERS, HF
 RECORDERS, MAGNETIC TAPE,
 AUDIO
 RECTIFIERS, SELENIUM
 RELAYS, LATCHING
 RESISTORS, FIXED, CARBON
 SEMICONDUCTOR DIODES
 SEMICONDUCTORS,
 TRANSISTORS, AF
 SEMICONDUCTORS,
 TRANSISTORS, RF
 SPEAKERS
 SWITCHES, PUSHBUTTON,
 NONILLUMINATED
 SWITCHES, ROTARY
 SWITCHES, SLIDE
 SWITCHES, TOGGLE
 TELEPHONE EQUIPMENT
 TRANSMITTERS, AM, 10 KW
 TRANSMITTERS, AM, 50 KW
 TRANSMITTERS, AM, OVER 50 KW
 TRANSMITTERS, FM, 5 KW
 TRANSMITTERS, FM, 10 KW
 TRANSMITTERS, FM, 50 KW
 TRANSMITTERS, FM, 100 KW
 VACUUM TUBES, CATHODE RAY
 TV, MONOCHROME
 VACUUM TUBES, RECEIVING
 VACUUM TUBES, TRANSMITTING
 YOKES, DEFLECTION

AMERICAN GELOSO ELECTRONICS

COMMUNICATIONS SYSTEMS,
 INTERCOM, WIRED
 MICROPHONE HARDWARE
 MICROPHONE STANDS & BOOMS
 MICROPHONES, DYNAMIC

MICROPHONES, WIRELESS
 MIXERS - ALSO SEE CONSOLES
 MOBILE EQUIPMENT
 RECORDERS, MAGNETIC TAPE,
 AUDIO
 SOUND SYSTEMS, OUTDOOR
 SOUND SYSTEMS, PORTABLE
 SPEAKER COMPONENTS
 SPEAKERS
 TAPE, MAGNETIC RECORDING,
 AUDIO

AMERICAN PAMCOR, INC.

CATV, CABLE TERMINALS
 CONNECTORS, ANTENNA
 CONNECTORS, COAXIAL CABLE
 CONNECTORS, POWER
 CONNECTORS, RF
 PLUGS, COAXIAL
 SWITCHES
 SWITCHING MATRICES
 SWITCHING SYSTEMS
 TERMINAL BLOCKS
 TERMINALS, HIGH VOLTAGE
 TERMINALS, LUG
 TERMINALS, SOLDERLESS
 TOOLS, CRIMPERS

AMERLINE CORPORATION

CARTRIDGES, MAGNETIC TAPE
 REELS, FILM
 REELS, TAPE

AMPEREX ELECTRONIC CORP.

CAPACITORS, FIXED,
 ELECTROLYTIC
 CAPACITORS, FIXED, FILM
 CAPACITORS, FIXED, OTHER
 CAVITIES, MICROWAVE
 MICROWAVE COMPONENTS
 RESISTORS, FIXED, CARBON
 RESISTORS, FIXED, OTHER
 SEMICONDUCTOR DIODES
 SEMICONDUCTOR RECTIFIERS,
 SILICON CONTROLLED - SCR
 SEMICONDUCTORS, THYRISTORS
 SEMICONDUCTORS,
 TRANSISTORS, AF
 SEMICONDUCTORS,
 TRANSISTORS, FE
 SEMICONDUCTORS, TRANSISTORS,
 GENERAL
 SEMICONDUCTORS,
 TRANSISTORS, RF
 VACUUM TUBES, CAMERA,
 IMAGE-ORTHICON
 VACUUM TUBES, CAMERA,
 PLUMBICON R
 VACUUM TUBES, CAMERA, VIDICOM
 VACUUM TUBES, RECEIVING
 VACUUM TUBES, TRANSMITTING

AMPERITE CO.

RELAYS, TIME DELAY
 VACUUM TUBES, BALLAST

AMPEX CORPORATION

CAMERAS, TV, COLOR
 CAMERAS, TV, MONOCHROME
 CARTRIDGES, TAPE,
 RECORDING SERVICE
 CATV, ORIGINATION EQUIPMENT
 COMMUNICATIONS SYSTEMS,
 LAND MOBILE
 COMPUTER EQUIPMENT
 CONSOLE, AUDIO, AM
 CONSOLE, AUDIO, FM
 CONSOLE, AUDIO, PORTABLE
 CONSOLE, AUDIO, RECORDING
 CONSOLE, AUDIO, TV
 CONSOLE, KITS
 CONSOLE, VIDEO, PORTABLE
 CONSOLE, VIDEO, STUDIO
 DEMAGNETIZERS, BULK TAPE
 DEMAGNETIZERS, HEAD
 DROPOUT COMPENSATOR,
 VIDEO TAPE
 EARPHONES, HEADPHONES
 EDITORS, AUDIO TAPE
 EDITORS, VIDEO TAPE
 HEADS, ERASE, MAGNETIC
 HEADS, RECORDING, MAGNETIC
 INDUSTRIAL TV
 LENSES, OPTICAL, FIXED
 LENSES, OPTICAL, ZOOM
 MAINTENANCE SERVICES, AM
 MAINTENANCE SERVICES, FM
 MAINTENANCE SERVICES, TV
 MICROPHONES, DYNAMIC
 MOBILE EQUIPMENT
 MONITORS, VIDEO
 RECORDERS, DISC, MAGNETIC
 RECORDERS, MAGNETIC TAPE,
 AUDIO
 RECORDERS, MAGNETIC TAPE,
 LOGGING
 RECORDERS, MAGNETIC TAPE,
 VIDEO
 SOUND SYSTEMS, OUTDOOR
 SOUND SYSTEMS, PORTABLE
 SOUND SYSTEMS, THEATER
 SPEAKERS
 TAPE DECKS, MAGNETIC
 TAPE DUPLICATORS
 TAPE, MAGNETIC RECORDING,
 AUDIO
 TAPE, MAGNETIC RECORDING,
 COMPUTER
 TAPE, MAGNETIC RECORDING,
 TEST
 TAPE, MAGNETIC RECORDING,
 VIDEO
 TV SYSTEMS, CLOSED CIRCUIT

AMPHENOL DISTRIBUTOR DIVISION

ADAPTERS, CONNECTOR

CABLE, ARMORED
 CABLE, ASSEMBLIES
 CABLE, CATV, HARDWARE
 CABLE, COAXIAL, FLEXIBLE
 CABLE, COAXIAL, RIGID
 CABLE, DIRECT-BURIAL
 CABLE, SHELDED, AUDIO
 CHARGERS, BATTERY
 COMMUNICATIONS SYSTEMS, CB
 CONNECTORS, AF & MICROPHONE
 CONNECTORS, ANTENNA
 CONNECTORS, COAXIAL CABLE
 CONNECTORS, POWER
 CONNECTORS, RF
 DIALS, INSTRUMENT
 GENERATORS, SIGNAL, COLOR BAR
 GENERATORS, SIGNAL, RF
 METERS, FIELD STRENGTH
 PLUGS, COAXIAL
 PLUGS, PHONE
 POTENTIOMETERS, CARBON
 POTENTIOMETERS, WIREWOUND
 RESISTORS, FIXED, PRECISION
 RESISTORS, FIXED, WIREWOUND
 RESISTORS, VARIABLE, CARBON
 RESISTORS, VARIABLE,
 WIREWOUND

AMPLIFIER CORP. OF AMERICA

AMPLIFIER, AF, AGC
 AMPLIFIER, AF, COMPRESSING
 AMPLIFIER, AF,
 GENERAL PURPOSE
 AMPLIFIER, AF, REVERBERATION
 DEMAGNETIZERS, BULK TAPE
 DEMAGNETIZERS, HEAD
 METERS, FLUTTER & WOW
 PROJECTORS, SLIDE
 RECORDERS, MAGNETIC TAPE,
 AUDIO
 REVERBERATION DEVICES

AMPLIVISION CORPORATION

AMPLIFIER, BRIDGING
 AMPLIFIER, CATV
 AMPLIFIER, DISTRIBUTION
 AMPLIFIER, RF,
 GENERAL PURPOSE
 AMPLIFIER, TV, BOOSTER
 AMPLIFIER, TV, VIDEO
 AMPLIFIER, VIDEO, SWEEP
 ANTENNAS, TV,
 MASTER-COMMUNITY
 CABLE, CATV, HARDWARE
 CAMERA, REMOTE
 CONTROL EQUIPMENT
 CAMERAS, TV, COLOR
 CAMERAS, TV, MONOCHROME
 CATV EQUIPMENT - ALSO SEE
 OTHER CATEGORIES
 CATV, CHANNEL AMPLIFIERS
 CATV, HEAD-END EQUIPMENT
 CATV, ORIGINATION EQUIPMENT
 COMMUNICATIONS SYSTEMS,
 MICROWAVE
 CONNECTORS, ANTENNA
 CONNECTORS, COAXIAL CABLE
 CONNECTORS, RF
 CONSOLE, VIDEO, PORTABLE
 CONSOLE, VIDEO, STUDIO
 CONVERTERS
 GENERATORS, FM, SUBCARRIER
 HEAD-END EQUIPMENT,
 SEE CATV HEAD-END EQUIPMENT
 MONITORS, VIDEO
 NARROW-BAND FM EQUIPMENT
 NETWORKS, MATCHING, RF
 NETWORKS, PHASING
 RECORDERS, MAGNETIC TAPE,
 VIDEO
 RODS, GROUND
 TAPE DECKS, MAGNETIC
 TAPE, MAGNETIC RECORDING,
 VIDEO
 TOWERS, ANTENNA,
 CATV, HEAD-END
 TRANSLATOR SYSTEMS
 TV SYSTEMS, CLOSED CIRCUIT

ANACONDA ASTRODATA CO.

AMPLIFIER, BRIDGING
 AMPLIFIER, CATV
 AMPLIFIER, DISTRIBUTION
 AMPLIFIER, TV, BOOSTER
 CABLE, CATV, HARDWARE
 CABLE, COAXIAL, FLEXIBLE
 CABLE, DIRECT-BURIAL
 CATV EQUIPMENT - ALSO SEE
 OTHER CATEGORIES
 CATV, CABLE TERMINALS
 CATV, CHANNEL AMPLIFIERS
 CATV, HEAD-END EQUIPMENT
 CONNECTORS, COAXIAL CABLE
 HEAD-END EQUIPMENT,
 SEE CATV HEAD-END EQUIPMENT
 INDUSTRIAL TV
 METERS, FIELD STRENGTH
 POWER SUPPLIES, AC
 TRANSFORMERS, GENERAL
 TV SYSTEMS, CLOSED CIRCUIT

ANCHA ELECTRONICS

CONSOLE, AUDIO, FM
 CONSOLE, AUDIO, RECORDING
 CONSOLE, AUDIO, TV
 CONSOLE, AUDIO, AM

KEITH ANDERSON CO.

AMPLIFIER, CATV
 AMPLIFIER, RF,
 GENERAL PURPOSE
 AMPLIFIER, RF, POWER
 BALUNS
 CATV, CHANNEL AMPLIFIERS
 CATV, HEAD-END EQUIPMENT
 CONVERTERS

GENERATORS, POWER,
WIND AND THERMOELECTRIC
TRANSLATOR SYSTEMS
TRANSMITTERS, TV, 1 WATT
TRANSMITTERS, TV, 10 WATTS

ANDREW CORPORATION
ANTENNAS, MICROWAVE
ANTENNAS, MOBILE
ANTENNAS, 2500 MHZ
CABLE, ASSEMBLIES
CABLE, CATV, HARDWARE
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
CABLE, DIRECT-BURIAL
CLAMPS, CABLE
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
DELAY LINES
JOINTS, ROTARY, COAXIAL
JOINTS, ROTARY, WAVEGUIDE
MICROWAVE COMPONENTS
MOBILE EQUIPMENT
MOUNTS, ANTENNA, FIXED
PRESSURIZATION EQUIPMENT,
TRANSMISSION LINE
RADOMES
REMOTE CONTROL SYSTEMS
STL EQUIPMENT
SWITCHES, COAXIAL
SWITCHES, WAVEGUIDE
SWITCHING MATRICES
SWITCHING SYSTEMS
TRANSMISSION LINES
WAVEGUIDE AND
ASSOCIATED COMPONENTS

ANSONIA WIRE AND CABLE CO.
CABLE, COAXIAL, FLEXIBLE
CABLE, TELEPHONE

ANTENNA PRODUCTS COMPANY
ANTENNAS, AM
ANTENNAS, CATV
ANTENNAS, FM
ANTENNAS, TV,
MASTER-COMMUNITY
BALUNS
CABLE, COAXIAL, RIGID
INSULATORS, ANTENNA
INSULATORS, STAND-OFF
TOWERS, ANTENNA,
CATV HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
TRANSFORMERS, RF
TRANSMISSION LINES

API INSTRUMENTS CO.
AMMETERS, AC
AMMETERS, AC, THERMOCOUPLE
AMMETERS, DC
METERS, DB AND VU
METERS, SEE SPECIFIC TYPES
RECORDERS, PAPER,
LOGGING AND GRAPHIC
RELAYS, OVERLOAD
VOLTMETERS, AC
VOLTMETERS, DC

APPARATUS DEVELOPMENT CO.
ANTENNAS, FM
BALUNS

APPLIED ELECTRO-MECHANICS
ADAPTERS, CONNECTOR
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, SENSING
AMPLIFIER, TV, VIDEO
CORDS, PATCH
GENERATORS, SIGNAL,
SPECIAL EFFECT
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
WIRING AND CABLING SERVICES

ARRIFLEX CORP. OF AMERICA
CAMERAS, FILM, CINE
PROJECTORS, FILM

ASCO SONOCRAFT CORP.
AMPLIFIER, DISTRIBUTION
BACKGROUND MUSIC SERVICE
BROADCAST PROGRAMMING SERVICE
CAMERAS, TV, COLOR
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
CONSOLE, AUDIO, RECORDING
CONSOLE, CABINETS
AND HARDWARE
EARPHONES, HEADPHONES
EDITORS, AUDIO TAPE
EDUCATION FACILITIES, EQPT
ENCLOSURES, SPEAKER
MAINTENANCE SERVICES, AM
MAINTENANCE SERVICES, FM
RECORDS, BLANK, ACETATE,
FOR RECORDING
SCREENS, PROJECTION, FRONT
TAPE DECKS, MAGNETIC
TAPE DUPLICATORS
TAPE, MAGNETIC RECORDING,
AUDIO
TAPE, MAGNETIC RECORDING,
VIDEO

THE ASTATIC CORPORATION
ARMS, TONE

CARTRIDGES, PHONO
EARPHONES, HEADPHONES
MICROPHONE STANDS & BOOMS
MICROPHONES, DYNAMIC
STYLI, CUTTING
STYLI, PLAYBACK
TAPE, MAGNETIC RECORDING,
AUDIO

ATLAS SOUND
ACOUSTIC MATERIALS
ADAPTERS, CONNECTOR
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
LAND MOBILE
LAMP ASSEMBLIES
MOBILE EQUIPMENT
MOUNTS, INSTRUMENT
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, THEATER
SPEAKER COMPONENTS
SPEAKERS
SWITCHES, FOOT
TRANSFORMERS, AUDIO, MATCHING

AUDIO ACCESSORIES
CORDS, PATCH
JACK PANEL ASSEMBLIES
JACKS
LAMPS, PANEL
PLUGS, PHONO
SOCKETS, LAMP
WIRING AND CABLING SERVICES

AUDIO DEVICES
CARTRIDGES, MAGNETIC TAPE
DEMAGNETIZERS, HEAD
HEADS, DISC RECORDING
RECORDS, BLANK, LACQUER,
FOR RECORDING
REELS, TAPE
TAPE, MAGNETIC RECORDING,
AUDIO
TAPE, MAGNETIC RECORDING,
AUDIO, CARTRIDGE
TAPE, MAGNETIC RECORDING,
COMPUTER
TAPE, MAGNETIC RECORDING,
TEST

AUDIO INSTRUMENT CO.
AMPLIFIER, AF, REVERBERATION
ANALYZERS, DISTORTION
ANALYZERS, INTERMODULATION
DELAY DEVICES, AF
DELAY LINES
EDUCATION FACILITIES, EQPT
PREAMPLIFIERS, AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, THEATER
TAPE DECKS, MAGNETIC
TELEPHONE EQUIPMENT

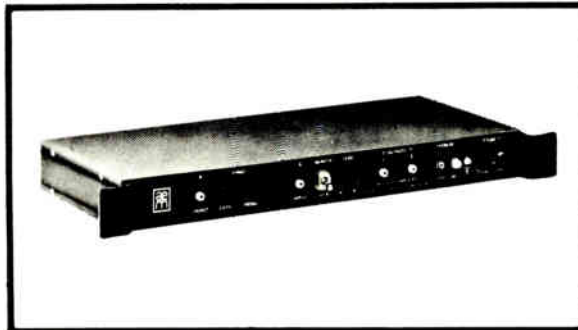
BALL BROTHERS RESEARCH
AMPLIFIER, CATV
AMPLIFIER, DISTRIBUTION
AMPLIFIER, STABILIZING
AMPLIFIER, TV, VIDEO
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
GENERATORS, SIGNAL,
SPECIAL EFFECT
INDUSTRIAL TV
TV SYSTEMS, CLOSED CIRCUIT

BARKER & WILLIAMSON
ANALYZERS, DISTORTION
ANALYZERS, HARMONIC
COILS, ANTENNA LOADING
COILS, CHOKE, RF
DUMMY LOAD
GENERATORS, SIGNAL, AF
SWITCHES, COAXIAL
TRANSFORMERS, RF

BAUER ELECTRONICS CORPORATION
AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
AMPLIFIER, AF, REVERBERATION
AMPLIFIER, AF, STEREO
AMPLIFIER, BRIDGING
AMPLIFIER, DC
AMPLIFIER, RF, POWER
CARRIER-CURRENT EQUIPMENT
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, CABINETS
AND HARDWARE
CONSOLE, KITS
DELAY DEVICES, AF
MIXERS - ALSO SEE CONSOLES
PREAMPLIFIERS, AUDIO
RECORDERS, PAPER,
LOGGING AND GRAPHIC
REMOTE CONTROL SYSTEMS
REVERBERATION DEVICES
TRANSMITTER KITS
TRANSMITTERS, AM, LOW POWER
TRANSMITTERS, AM, 250 WATT
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW

Color Problems?

AEM HAS THREE NEW ANSWERS



LAP AMPLIFIERS—Here's the new LDA-series of lap-dissolve amplifiers that AEM developed especially for color. Photo-electric cells, remotely controlled by DC circuitry, assure a velvety transition between two inputs. All solid state (silicon semiconductors exclusively), the LDA provides the signal handling characteristics of a high performance distribution amplifier. Differential phase and gain do not change even during the lap interval. Embarrassing color shifts and level changes become a thing of the past. And the price is just as attractive as the performance: LDA-1, \$555.00; LDA-2 (sync adding), \$585.00.

COLOR SENSORS—We are introducing a Color Sensor attachment to the LDA amplifiers which samples both incoming channels and then closes a relay when *either* input has color burst . . . gives your switching system the information it needs to react properly. LDA-1 with Color Sensor, \$595.00; LDA-2 with Color Sensor, \$625.00.

BURST GENERATOR—Our new black Burst Generator with CONTROLLED chroma background will allow you to control color fades to black or any hue. The variable chroma feature also acts as a source for coloring backgrounds of monochrome slides and movies. Color Burst Generator, just \$595.00; standard black Burst Generator, \$545.00.

Call or write for more information about AEM video equipment. Feature for feature, there is nothing comparable on today's market!

APPLIED ELECTRO MECHANICS, INC.

2350 Duke Street, Alexandria, Virginia 22314
PHONE: (703) 548-2166



TRANSMITTERS, AM, 25 KW
TRANSMITTERS, AM, 50 KW
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 3 KW
TRANSMITTERS, FM, 7.5 KW
TRANSMITTERS, FM, 10 KW
TRANSMITTERS, FM, 20 KW

E. J. BAUGHMAN CO.
CAMERA, MOUNTING EQUIPMENT
MICROPHONE STANDS & BOOMS

BECKMAN & WHITLEY
CAMERAS, FILM, CINE
WEATHER INSTRUMENTS

BELAR ELECTRONICS LABORATORY
AMPLIFIER, RF, PEAK LIMITING
COMMUNICATIONS SYSTEMS,
MULTIPLEX
DEMODULATORS
EXCITERS, FM
GENERATORS, FM, STEREO
METERS, FREQUENCY
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, SCA
MONITORS, FM SYSTEMS, STEREO
MONITORS, FREQUENCY
OSCILLATORS, FM
RECEIVERS, FM
RECEIVERS, MULTIPLEX
RECEIVERS, SCA

BELDEN MANUFACTURING CO.
CABLE, COAXIAL, FLEXIBLE
CABLE, DIRECT-BURIAL
CABLE, SHIELDED, AUDIO
CABLE, TELEPHONE
CORDS, SET
WIRE, BARE, COPPER
WIRE, INSULATED, HIGH VOLTAGE
WIRE, INSULATED, HOOKUP
WIRE, SHIELDED

F. W. BELL, INC.
CONVERTERS
GAUSS METER
MONITORS, POWER
PROBES, TEST LEAD
WATTMETERS

BENCO TELEVISION ASSOCIATES
AMPLIFIER, CATV
AMPLIFIER, TV, BOOSTER
ANTENNAS, TV,
MASTER-COMMUNITY
ATTENUATORS, RF
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
CATV, CABLE TERMINALS
CATV, CHANNEL AMPLIFIERS
CATV, HEAD-END EQUIPMENT
CONNECTORS, COAXIAL CABLE
CONVERTERS
FILTERS, ANTENNA
HEAD-END EQUIPMENT,
SEE CATV HEAD-END EQUIPMENT
HOUSINGS, ANTENNA
METERS, FIELD STRENGTH
TRANSLATOR SYSTEMS

BENJAMIN ELECTRONIC SOUND CORP
CARTRIDGES, PHONO
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, HF
TURNABLES, PHONOGRAPH

BENRUS TECHNICAL PRODUCTS
CAMERAS, OSCILLOSCOPE
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLOSCOPES
VOLTMMETERS, TRANSISTORIZED

BERKEY TECHNICAL CORP.
BATTERIES, NICKEL CADMIUM
CAMERA, MOUNTING EQUIPMENT
STROBE, LIGHTS

BIONIC INSTRUMENTS, INC.
ALARM, FAULT
ALARM, INTRUDER
ALARM, SIGNAL
INDUSTRIAL TV
REMOTE CONTROL SYSTEMS
TAPE DUPLICATORS
TIMERS, ELECTRIC
TV SYSTEMS, CLOSED CIRCUIT

BIRD ELECTRONIC CORPORATION
ALARM, FAULT
ATTENUATORS, FIXED
ATTENUATORS, RF
CALORIMETERS
CONNECTORS, RF
COUPLERS
DETECTORS, STANDING WAVE
DUMMY LOAD
FILTERS, ANTENNA
FILTERS, RF
METERS, POWER
METERS, STANDING WAVE
MICROWAVE COMPONENTS
MONITORS, POWER
SWITCHES, COAXIAL
WATTMETERS

BIRNBACH CO.
ADAPTERS, TEST
ANCHORS, GUY
CABLE, ARMORED
CABLE, DIRECT-BURIAL
CABLE, SHIELDED, AUDIO
CABLE, TELEPHONE

CLAMPS, CABLE
CLIPS, TEST
CORDS, DIAL
CORDS, LACING
CORDS, PATCH
CORDS, SET
HARDWARE, GENERAL
HARDWARE, GROMMETS
HARDWARE, RACK
HARDWARE, TUBING, PLASTIC
HEAT SINKS
INSULATORS, ANTENNA
INSULATORS, FEED THROUGH
INSULATORS, STAND-OFF
INSULATORS, OTHER
JACKS
KNOBS
LIGHTNING ARRESTERS
PLUGS, PHONE
SWITCHES, KNIFE
SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, SLIDE
SWITCHES, TOGGLE
TERMINAL STRIPS
TERMINALS, LUG
TERMINALS, SOLDER
TERMINALS, SOLDERLESS
WIRE, BARE, COPPER
WIRE, INSULATED, HIGH VOLTAGE
WIRE, INSULATED, HOOKUP
WIRE, SHIELDED

BIRNS & SAWYER
ADAPTERS, CONNECTOR
AMPLIFIER, DC
BATTERIES, NICKEL CADMIUM
CAMERA, MOUNTING EQUIPMENT
CAMERAS, FILM, CINE
CAMERAS, FILM, STILL
CHARGERS, BATTERY
CONVERTERS
DOLLIES, CAMERA
EDITORS, AUDIO TAPE
EDITORS, FILM
EDITORS, VIDEO TAPE
INVERTERS, DC TO AC,
VIBRATORS
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
LIGHTING, TV, COMPONENTS
MIXERS - ALSO SEE CONSOLES
MOUNTS, INSTRUMENT
POWER SUPPLIES, AC
POWER SUPPLIES, DC
PROJECTORS, FILM
REELS, FILM
REELS, TAPE
SCREENS, PROJECTION, FRONT
SPLICERS, MAGNETIC TAPE
AND FILM
TAPE, MAGNETIC RECORDING,
AUDIO

BISCAYNE AUDIO COMPANY
BROADCAST PROGRAMMING SERVICE

BLAW-KNOX COMPANY
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

BLONDER-TONGUE LABORATORIES
ADAPTERS, CONNECTOR
AMPLIFIER, CATV
AMPLIFIER, DISTRIBUTION
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, TV, BOOSTER
AMPLIFIER, TV, VIDEO
AMPLIFIER, VIDEO, SWEEP
ANTENNAS, CATV
ANTENNAS, FM
ANTENNAS, TV
ANTENNAS, TV,
MASTER-COMMUNITY
ATTENUATORS, RF
BALUNS
BRIDGES
CAMERAS, FILM, CINE
CAMERAS, FILM, STILL
CAMERAS, TV, COLOR
CAMERAS, TV, MONOCHROME
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
CATV, CHANNEL AMPLIFIERS
CATV, HEAD-END EQUIPMENT
CATV, ORIENTATION EQUIPMENT
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CONSOLE, AUDIO, TV
CONVERTERS
DETECTORS, STANDING WAVE
DIPLEXERS
DISPLAY EQUIPMENT, TV
DOLLIES, CAMERA
FILTERS, ANTENNA
FILTERS, RF
GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, RF
GENERATORS, SIGNAL,
TV SYNCHRONIZING
HEAD-END EQUIPMENT,
SEE CATV HEAD-END EQUIPMENT
INDUSTRIAL TV
METERS, FIELD STRENGTH
METERS, FREQUENCY
MIXERS - ALSO SEE CONSOLES
MODULATORS, TV
MONITORS, VIDEO
POWER SUPPLIES, AC

POWER SUPPLIES, DC
PREAMPLIFIERS, VIDEO
RELAYS, THERMAL
SWITCHES
SWITCHES, COAXIAL
TOOLS, CRIMPERS
TRANSFORMERS, RF
TV SYSTEMS, CLOSED CIRCUIT
WEATHER INSTRUMENTS

BOSTON INSULATED WIRE & CABLE
CABLE, ARMORED
CABLE, ASSEMBLIES
CABLE, CAMERA
CABLE, COAXIAL, FLEXIBLE
CABLE, SHIELDED, AUDIO
WIRE, INSULATED, HIGH VOLTAGE
WIRE, SHIELDED
WIRING AND CABLING SERVICES

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DECALOMANIAS
LETTERS AND NUMBERS,
PRESSURE SENSITIVE

BROADCAST ELECTRONICS, INC.
AMPLIFIER, DISTRIBUTION
AUTOMATION EQUIPMENT
CABINETS, STORAGE,
MAGNETIC TAPE
CABINETS, STORAGE,
MAGNETIC TAPE, CARTRIDGE
CARTRIDGES, MAGNETIC TAPE
CLEANERS, CHEMICAL
DEMAGNETIZERS, BULK TAPE
DEMAGNETIZERS, HEAD
HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO, CARTRIDGE
REELS, TAPE
SPLICERS, MAGNETIC TAPE
AND FILM
TAPE DECKS, MAGNETIC
TAPE, MAGNETIC RECORDING,
AUDIO
TAPE, MAGNETIC RECORDING
AUDIO, CARTRIDGE
TELEPHONE EQUIPMENT
MIXERS - ALSO SEE CONSOLES

BROADCAST PRODUCTS COMPANY
AMPLIFIER, SENSING
AUTOMATION EQUIPMENT
CABINETS, STORAGE,
MAGNETIC TAPE, CARTRIDGE
CABINETS, WOOD

BROWNING LABORATORIES
AMPLIFIER, AF, MONAURAL
ANTENNAS, FM
BACKGROUND MUSIC SERVICE
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
MULTIPLEX, FM
MONITORS, FM SYSTEMS, MONO
RECEIVERS, MULTIPLEX
RECEIVERS, SCA

BUCHANAN ELECTRICAL PROD CORP
INSULATORS, OTHER
TERMINAL BLOCKS
TERMINAL BOARDS
TERMINAL CARDS
TERMINAL STRIPS
TERMINALS, BARRIER
TERMINALS, LUG
TERMINALS, SOLDER
TERMINALS, SOLDERLESS
TOOLS, CRIMPERS

BUD RADIO, INC.
BLOWERS AND FANS
CABINETS, METAL
CAPACITORS, FIXED, GENERAL
CAPACITORS, VARIABLE
CONSOLE, CABINETS
AND HARDWARE
HARDWARE, CHASSIS
HARDWARE, FIXTURES, HOLOGING
HARDWARE, LOUVERS,
VENTILATING
HARDWARE, MOUNTS
HARDWARE, PANEL
HARDWARE, RACK
PANELS, INSTRUMENT,
FOR RACK MOUNTING
RACKS, MOUNTING
SLIDES, CHASSIS

BURGESS BATTERY COMPANY
BATTERIES, DRY CELL
TAPE, MAGNETIC RECORDING,
AUDIO

BURKE & JAMES
CABINETS, METAL
CABINETS, STORAGE,
MAGNETIC TAPE
CABINETS, WOOD
CAMERA, MOUNTING EQUIPMENT
CAMERAS, FILM, CINE
CAMERAS, FILM, STILL
DUCTS, VENTILATION
EDITORS, FILM
FILTERS, OTHER
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
LIGHTING, TV, COMPONENTS
METERS, LIGHT
PROCESSORS, FILM, B-W
PROCESSORS, FILM, COLOR
PROJECTORS, FILM
PROJECTORS, SLIDE

REELS, FILM
REWINDERS, FILM
SCREENS, PROJECTION, FRONT
SCREENS, PROJECTION, REAR
SPLICERS, MAGNETIC TAPE
AND FILM
TIMERS, ELECTRIC

CALBEST ELECTRONICS
ADAPTERS, FM STEREO
AMPLIFIER, AF, STEREO
COILS, CHOKE, RF
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, SCA
SPEAKER COMPONENTS

CALIFONE-ROBERTS
AMPLIFIER, AF, REVERBERATION
MICROPHONES, DYNAMIC
RECORDERS, MAGNETIC TAPE,
AUDIO
SOUND SYSTEMS, PORTABLE
SPEAKERS

CALVERT ELECTRONICS
VACUUM TUBES, RECEIVING
VACUUM TUBES, TRANSMITTING

CARDWELL CONDENSER CORP
CAPACITORS, VARIABLE
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, OTHER
WAVEGUIDE AND
ASSOCIATED COMPONENTS

CATEL COMPANY
AMPLIFIER, TV, VIDEO
CATV, ORIENTATION EQUIPMENT
GENERATORS, FM, STEREO
MODULATORS, TV
TRANSLATOR SYSTEMS, FM

CBS LABORATORIES
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
AMPLIFIER, MASKING
DISPLAY EQUIPMENT, TV
ENHANCERS, TV IMAGE
METERS, DB AND VU
METERS, DB AND VU, WIDE RANGE
RECORDS, TEST

CCA ELECTRONICS CORPORATION
AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
AMPLIFIER, AF, REMOTE
AMPLIFIER, DISTRIBUTION
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, PEAK LIMITING
AMPLIFIER, RF, POWER
ANTENNAS, AM
ANTENNAS, FM
AUTOMATION EQUIPMENT
BACKGROUND MUSIC SERVICE
CABINETS, METAL
CIRCUIT BREAKERS
CLOCKS
COILS, ANTENNA LOADING
COILS, CHOKE, RF
COMMUNICATIONS SYSTEMS,
LAND MOBILE
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CORDS, PATCH
DUMMY LOAD
EQUALIZERS, AUDIO EMPHASIS
EXCITERS, FM
FILTERS, ANTENNA
FILTERS, RF
GENERATORS, FM, STEREO
GENERATORS, FM, SUBCARRIER
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, RF
HOUSINGS, ANTENNA
INDUCTANCES, FIXED
INDUCTANCES, VARIABLE
MAINTENANCE SERVICES, AM
MAINTENANCE SERVICES, FM
METERS, POWER
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, SCA
MONITORS, FM SYSTEMS, STEREO
MONITORS, FREQUENCY
NETWORKS, MATCHING, RF
NETWORKS, PHASING
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
OSCILLATORS, FM
PREAMPLIFIERS, AUDIO
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, MULTIPLEX
RECEIVERS, SCA
RECTIFIERS - ALSO SEE SEMI-
CONDUCTORS & VACUUM TUBES
REGULATORS, VOLTAGE
SPEAKERS

STL EQUIPMENT
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TRANSMITTER KITS
TRANSMITTERS, AM, 250 WATT
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, AM, 25 KW
TRANSMITTERS, AM, 50 KW
TRANSMITTERS, AM, OVER 50 KW
TRANSMITTERS, FM, 10 WATTS
TRANSMITTERS, FM, 100 WATTS
TRANSMITTERS, FM, 250 WATTS
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 3 KW
TRANSMITTERS, FM, 5 KW
TRANSMITTERS, FM, 10 KW
TRANSMITTERS, FM, 15 KW
TRANSMITTERS, FM, 20 KW
TRANSMITTERS, FM, 40 KW
VACUUM TUBES, TRANSMITTING
WIRE, BARE, COPPER
WIRE, BARE, COPPER STRAP

C-COR ELECTRONICS

AMPLIFIER, BRIDGING
AMPLIFIER, CATV
AMPLIFIER, DC
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, RF
GENERAL PURPOSE
AMPLIFIER, RF, POWER
AMPLIFIER, TV, BOOSTER
AMPLIFIER, TV, VIDEO
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
CATV, CHANNEL AMPLIFIERS
CATV, HEAD-END EQUIPMENT
HEAD-END EQUIPMENT,
SEE CATV HEAD-END EQUIPMENT

CENTRALAB

ATTENUATORS, AUDIO
CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED, METALLIZED
CAPACITORS, VARIABLE
INSULATORS, ANTENNA
INSULATORS, FEED THROUGH
INSULATORS, STAND-OFF
INSULATORS, OTHER
INTEGRATED CIRCUITS
POTENTIOMETERS, CARBON
POTENTIOMETERS, WIREWOUND
SWITCHES, LEVER
SWITCHES, MULTICONTACT
SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, ROTARY
SWITCHES, SLIDE

CENTRAL DYNAMICS CORP.

AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, FM
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, STABILIZING
AMPLIFIER, TV, VIDEO
ATTENUATORS, VIDEO
AUTOMATION EQUIPMENT
CATV, ORIGINATING EQUIPMENT
CLOCKS
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
CONSOLE, AUDIO, TV
CONSOLE, VIDEO, PORTABLE
CONSOLE, VIDEO, STUDIO
CORDS, PATCH
DELAY LINES
DISPLAY EQUIPMENT, TV
EDUCATION FACILITIES, EOPT
GENERATORS, SIGNAL,
SPECIAL EFFECT
GENERATORS, SIGNAL,
TV SYNCHRONIZING
GENERATORS, SIGNAL, VITS
INDUSTRIAL TV
JACK PANEL ASSEMBLIES
JACKS
MAINTENANCE SERVICES, TV
MIXERS - ALSO SEE CONSOLES
MOBILE EQUIPMENT
PREAMPLIFIERS, AUDIO
PREAMPLIFIERS, VIDEO
REMOTE CONTROL SYSTEMS
SWITCHERS
SWITCHES, CROSSBAR
SWITCHING MATRIXES
SWITCHING SYSTEMS
TV SYSTEMS, CLOSED CIRCUIT

CENTURY LIGHTING INC.

LIGHTING, TV, COMPONENTS
LIGHTING, TV, CONTROLS
LIGHTING, TV, SYSTEMS
MICROPHONE STANDS & BOOMS

CENTURY PROJECTOR CORPORATION

AMPLIFIER, AF
GENERAL PURPOSE
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
PROJECTORS, FILM
RACKS, MOUNTING
RECORDERS, FILM, MAGNETIC
REWINDERS, FILM
SEMI-CONDUCTOR RECTIFIERS,
GENERAL

SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
SPEAKERS

CHASSIS TRAK
SLIDES, CHASSIS

CHRONO-LOG CORPORATION

AUTOMATION EQUIPMENT
CLOCKS
COMPUTER EQUIPMENT

CINE SONIC SOUND

BACKGROUND MUSIC SERVICE
CARTRIDGES, MAGNETIC TAPE
CARTRIDGES, TAPE,
RECORDING SERVICE

CLEVELAND ELECTRONICS

CDLS, DEFLECTION
AND FOCUSING

CLEVELAND ELECTRONICS

SPEAKER DIVISION
REVERBERATION DEVICES
SPEAKERS

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AMPLIFIER, DC
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, TV, VIDEO
CABLE ASSEMBLIES
CAMERA, MOUNTING EQUIPMENT
CAMERA, REMOTE
CONTROL EQUIPMENT
CAMERAS, TV, COLOR
CAMERAS, TV, MONOCHROME
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
CATV, ORIGINATING EQUIPMENT
DISPLAY EQUIPMENT, TV
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL,
TV SYNCHRONIZING
INDUSTRIAL TV
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
METERS - SEE SPECIFIC TYPES
MONITORS, VIDEO
OHMMETERS
POWER SUPPLIES, AC
POWER SUPPLIES, DC
POWER SUPPLIES, PRECISION
SWITCHERS
SWITCHING MATRIXES
SWITCHING SYSTEMS
TV SYSTEMS, CLOSED CIRCUIT
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE

COLLINS RADIO COMPANY

AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
ANTENNAS, FM
COILS, ANTENNA LOADING
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, TV
EXCITERS, FM
MICROWAVE SYSTEMS, STL
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, SCA
MONITORS, FM SYSTEMS, STEREO
MONITORS, FREQUENCY
NETWORKS, PHASING
RECORDERS, MAGNETIC TAPE,
AUDIO, CARTRIDGE
STL EQUIPMENT
TRANSMITTERS, AM, 250 WATT
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 5 KW
TRANSMITTERS, FM, 10 KW
TRANSMITTERS, FM, 20 KW

COLORADO VIDEO

ANALYZERS, VIDEO
CAMERAS, TV, MONOCHROME
DISPLAY EQUIPMENT, TV
ENHANCERS, TV IMAGE
GENERATORS, SIGNAL,
SPECIAL EFFECT
GENERATORS, SIGNAL,
TV SYNCHRONIZING
INDUSTRIAL TV
MONITORS, WAVEFORM
OSCILLOSCOPES
RECORDERS, DISC, MAGNETIC
TV SYSTEMS, CLOSED CIRCUIT

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CAMERA, MOUNTING EQUIPMENT
CHARGERS, BATTERY
CORDS, PATCH
DOLLIES, CAMERA
FILTERS, OTHER
LIGHTING, TV, COMPONENTS
LIGHTING, TV, CONTROLS
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TEST
TAPE, MAGNETIC RECORDING,
VIDEO

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MONITORS, VIDEO
RECEIVERS, MULTIPLEX
RECEIVERS, TV, COLOR
RECEIVERS, TV, MONOCHROME
VACUUM TUBES, CATHODE RAY,
TV, MONOCHROME

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AUTOMATION EQUIPMENT
COUPLERS
DIVIDERS, POWER
DUMMY LOAD
FILTERS, RF
LIGHTNING ARRESTERS
REMOTE CONTROL SYSTEMS
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TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, AM, 25 KW
TRANSMITTERS, AM, 50 KW
TRANSMITTERS, AM, OVER 50 KW

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CABINETS, METAL
CABINETS, STORAGE,
MAGNETIC TAPE
CAPACITORS, FIXED, OTHER
HARDWARE, RACK
RACKS, MOUNTING
RELAYS, ANTENNA
RELAYS, GENERAL PURPOSE
RELAYS, TELEPHONE
TELEPHONE EQUIPMENT
TERMINAL BLOCKS
WAVEGUIDE AND
ASSOCIATED COMPONENTS

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AMPLIFIER, DISTRIBUTION
CONNECTORS, COAXIAL CABLE
CORDS, PATCH
JACK PANEL ASSEMBLIES
JACKS

COURIER COMMUNICATIONS
AMPLIFIER, RF, POWER
COMMUNICATIONS SYSTEMS, CB
MOBILE EQUIPMENT
NARROW-BAND FM EQUIPMENT

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CABLE, CATV, HARDWARE
TRANSMISSION LINES
WIRE, BARE, STEEL

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CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED,
ELECTROLYTIC
CAPACITORS, FIXED, FILM
CAPACITORS, FIXED, METALLIZED
CAPACITORS, FIXED, MICA
CAPACITORS, FIXED, PAPER
CAPACITORS, FIXED, OTHER
FILTERS, RF
FILTERS, OTHER
INVERTERS, DC TO AC,
VIBRATORS
POWER SUPPLIES, AC
POWER SUPPLIES, DC
RELAYS, GENERAL PURPOSE
RELAYS, LATCHING
RELAYS, OVERLOAD
RELAYS, PHOTOELECTRIC
RELAYS, PLUG-IN
RELAYS, POWER
RELAYS, SEQUENCING
RELAYS, STEPPING
RELAYS, TELEPHONE
RELAYS, TIME DELAY
TESTERS, CAPACITOR

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AMPLIFIER, CATV
AMPLIFIER, TV, BOOSTER
CABLE, CATV, HARDWARE
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
COUPLERS
HARDWARE, RETAINING RINGS
TRANSFORMERS, AUTO
TRANSFORMERS, RF

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GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
CONSOLE, AUDIO, AM
EDUCATION FACILITIES, EQPT
PREAMPLIFIERS, AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO

RECORDERS, MAGNETIC TAPE,
LOGGING
TAPE DECKS, MAGNETIC
TAPE DUPLICATORS

CURTIS INSTRUMENTS
TIMERS, ELECTRIC

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ANTENNAS, CATV
ANTENNAS, TV,
MASTER-COMMUNITY

CUSTOM CRAFT DESIGNS
PICKUP, MUSICAL INSTRUMENT

DAGE BELL CORPORATION
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GENERATORS, SIGNAL,
TV SYNCHRONIZING
INDUSTRIAL TV
MULTIPLEXERS
TV SYSTEMS, CLOSED CIRCUIT

DATA INSTRUMENT DIV.
CABINETS, METAL
CALIBRATION SERVICE,
INSTRUMENT
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, CABINETS
AND HARDWARE
CONSOLE, KITS
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, VIDEO, PORTABLE
CONSOLE, VIDEO, STUDIO
OSCILLOSCOPES
PROBES, OSCILLOSCOPE
RACKS, MOUNTING
VOLTMETERS, AC
VOLTMETERS, DC

DATAPULSE DIVISION
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL,
SQUARE WAVE

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GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
RECEIVERS, FM
RECEIVERS, SCA

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COILS, CHOKE, RF
CORDS, PATCH
CORDS, SET
DUMMY LOAD
HARDWARE, CHASSIS
JACK PANEL ASSEMBLIES
LAMP ASSEMBLIES
NAMEPLATES
POWER SUPPLIES, AC
TERMINAL BOARDS
TERMINAL CARDS
TERMINAL STRIPS
TRANSFORMERS, RF
WAVEGUIDE AND
ASSOCIATED COMPONENTS
WIRING AND CABLING SERVICES

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CAPACITORS, FIXED, FILM
CAPACITORS, FIXED, METALLIZED
CAPACITORS, FIXED, OIL-FILLED
CAPACITORS, FIXED, PAPER
CAPACITORS, FIXED, OTHER

DELCO RADIO DIV
HEAT SINKS
RECEIVERS, AM
RECEIVERS, FM
SEMICONDUCTOR RECTIFIERS
SILICON CONTROLLED - SCR
SEMICONDUCTORS,
TRANSISTORS, AF
SEMICONDUCTORS, TRANSISTORS,
GENERAL

DELTA ELECTRONICS, INC. - N.C.
ADAPTERS, TEST
ALARM, SIGNAL
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, BRIDGING
AMPLIFIER, DISTRIBUTION
AUTOMATION EQUIPMENT
CAMERA, REMOTE
CONTROL EQUIPMENT
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
CONSOLE, AUDIO, PORTABLE
EDUCATION FACILITIES, EQPT
GENERATORS, SIGNAL, AF
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
REMOTE CONTROL SYSTEMS
TESTERS, SEMICONDUCTOR

DELTA ELECTRONICS INC - V A
ANTENNA SYSTEMS, HF
BRIDGES
COILS, ANTENNA LOADING
FILTERS, RF
INDUCTANCES, VARIABLE
METERS, STANDING WAVE
SWITCHING MATRIXES, ANTENNA

DEMORNAY-BONARDI DIVISION
ANTENNAS, MICROWAVE

ATTENUATORS, MICROWAVE
CAVITIES, MICROWAVE
CHOKES, WAVEGUIDE
COUPLERS, MICROWAVE
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
DIVIDERS, FREQUENCY
DIVIDERS, POWER
DUMMY LOAD
JOINTS, ROTARY, WAVEGUIDE
METERS, STANDING WAVE
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
SHIFTERS, PHASE, MICROWAVE
SLOTTED SECTIONS
SWITCHES, WAVEGUIDE
WAVEGUIDE AND
ASSOCIATED COMPONENTS

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CONNECTORS, AF & MICROPHONE
LAMP ASSEMBLIES
LAMPS, GLOW
LAMPS, PANEL
RELAYS, THERMAL
RELAYS, TIME DELAY
SOCKETS, LAMP
SWITCHES, ILLUMINATED

DIAMOND ELECTRONICS
CAMERAS, TV, MONOCHROME
MONITORS, VIDEO
TV SYSTEMS, CLOSED CIRCUIT

DIAMOND EXPANSION BOLT CO., INC
CABLE, CATV, HARDWARE
CLAMPS, CABLE

DIETCRAFT, INC.
CAMERAS, TV, MONOCHROME
TV SYSTEMS, CLOSED CIRCUIT

DISPLIGHT TECHNOLOGIES
CARTRIDGES, MAGNETIC TAPE
COMPUTER EQUIPMENT
DISPLAY EQUIPMENT, TV
PROJECTORS, SLIDE
SCREENS, PROJECTION, REAR
TAPE DECKS, MAGNETIC
TURNTABLES, PHONOGRAPH

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MAINTENANCE SERVICES, FM
MAINTENANCE SERVICES, TV
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

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CLEANERS, LENS
CLEANERS, OTHER
RECORDS, BLANK, ACETATE,
FOR RECORDING
STYLI, CUTTING
STYLI, PLAYBACK
TAPE, MAGNETIC RECORDING,
AUDIO

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BLOWERS AND FANS

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AMPLIFIER, PULSE
AMPLIFIER, TV, VIDEO
ANALYZERS, SIDEBAND
CATV, HEAD-END EQUIPMENT
DEMODULATORS
HEAD-END EQUIPMENT,
SEE CATV HEAD-END EQUIPMENT
INDUSTRIAL TV
MODULATORS, TV
SWITCHERS
SWITCHING SYSTEMS

DYNASCIENCES CORPORATION
ENHANCERS, TV IMAGE
IMAGE MOTION
STABILIZATION SYSTEM

EASTMAN KODAK COMPANY
CAMERAS, FILM, CINE
CAMERAS, FILM, STILL
FILM, PHOTOGRAPHIC
AND CHEMICALS
FILM, PROCESSING SERVICE
PROJECTORS, FILM
PROJECTORS, SLIDE,
NOT FOR VIDEO SYSTEMS
REELS, TAPE
TAPE, MAGNETIC RECORDING,
AUDIO

EIOSON ELECTRONIC COMPANY
CALIBRATION SERVICE,
FREQUENCY
CALIBRATION SERVICE,
INSTRUMENT
CRYSTALS, PIEZOELECTRIC
MONITORS, FREQUENCY

EIMAC DIV OF VARIAN
ADAPTERS, TUBE
AMPLIFIER, RF, POWER
COOLING UNITS, TUBE
HEAT SINKS
MICROWAVE COMPONENTS,
KLYSTRONS
OSCILLATORS, OTHER, RF

RECTIFIERS - VACUUM TUBES
SOCKETS, TUBE
VACUUM TUBES, TRANSMITTING

EITEL ELECTRONICS
MAINTENANCE SERVICES, AM
MAINTENANCE SERVICES, FM
MAINTENANCE SERVICES,
MICROWAVE
MAINTENANCE SERVICES, TV
TRANSMITTERS, AM, TO ORDER
TRANSMITTERS, FM, TO ORDER
TRANSMITTERS, TV, TO ORDER

ELECTROLINE TV EQUIP INC
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES

ELECTRONIC LIGHTS, INC.
FLASHERS, TOWER
LIGHTING, TV, SYSTEMS
STROBE, LIGHTS

ELECTRONIC MOBILE UNITS
MOBILE EQUIPMENT, TV

ELECTRONIC RESEARCH COMPANY
CRYSTALS, PIEZOELECTRIC
FILTERS, OTHER
OSCILLATORS, AM
OSCILLATORS, FM
OSCILLATORS, OTHER
OVENS, CRYSTAL
SWITCHES, SNAP
SWITCHES, THERMAL

ELECTRONICS ESSENTIALS OF CCC
ALARM, INTRUDER
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
CALIBRATION SERVICE,
FREQUENCY
CALIBRATION SERVICE,
INSTRUMENT
CLIPS, TEST
CONNECTORS, AF & MICROPHONE
CORDS, PATCH
CORDS, CHASSIS
HARDWARE, GENERAL
HARDWARE, GROMMETS
HARDWARE, MOUNTS
HARDWARE, RACK
HARDWARE, TOOLS
HARDWARE, TUBING, METAL
HARDWARE, TUBING, PLASTIC
JACK PANEL ASSEMBLIES
JACKS
LAMP ASSEMBLIES
LAMPS, PANEL
LEADS, TEST
MICROPHONE HARDWARE
MICROWAVE COMPONENTS
PLUGS, COAXIAL
PLUGS, PHONE
PROBES, OSCILLOSCOPE
PROBES, TEST LEAD
SHIELDINGS, TUBE
SLIDES, CHASSIS
SOCKETS, LAMP
SOCKETS, TUBE
SPEAKER COMPONENTS
SWITCHES, SLIDE
SWITCHES, SNAP
SWITCHES, TOGGLE
TELEPHONE EQUIPMENT
TERMINAL BLOCKS
TERMINAL BOARDS
TERMINAL STRIPS
TERMINALS, BARRIER
TERMINALS, HIGH VOLTAGE
TERMINALS, LUG
TERMINALS, SOLDER
TERMINALS, SOLDERLESS
TOOLS, HAND
TOOLS, SCREWDRIVERS
TOOLS, WRENCHES

ENCEE
ANTENNAS, TV
DIVIDERS, POWER
MICROWAVE SYSTEMS, 2500 MHZ
MICROWAVE SYSTEMS, OTHER
MODULATORS, TV
TRANSLATOR SYSTEMS
TRANSMITTERS, TV, 1 WATT
TRANSMITTERS, TV, 20 WATTS
TRANSMITTERS, TV, 100 WATTS
TRANSMITTERS, TV, 1 KW

ELECTRONIC SYSTEM ENGINEERING
AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF, REMOTE
METERS, LIGHT

ELECTRO PRODUCTS LABORATORIES
INVERTERS, DC TO AC,
SOLID STATE
POWER SUPPLIES, DC

ELECTRO-SOUND ACOUSTICS
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
ENCLOSURES, SPEAKER
SPEAKERS

ELECTROVERT, INCORPORATED
CLAMPS, COMPONENT
HARDWARE, GENERAL
HARDWARE, GROMMETS
MOUNTS, VIBRATION AND SHOCK

ELECTRO-VOICE, INC.
AMPLIFIER, AF,
GENERAL PURPOSE

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ENCLOSURES, SPEAKER
MICROPHONES, DYNAMIC
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, MULTIPLEX
SPEAKER COMPONENTS
SPEAKERS

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CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
COUNTERS, FREQUENCY
DIVIDERS, VOLTAGE
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, RF
GENERATORS, SIGNAL,
SQUARE WAVE
LAMPS, ARC
METERS, FIELD STRENGTH
METERS, FREQUENCY
METERS, FREQUENCY CALIBRATING
METERS, PHASE ANGLE
METERS, POWER
METERS, STANDING WAVE
MICROWAVE COMPONENTS
OHMMETERS
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
OSCILLATORS, OTHER
OSCILLOSCOPES
PAPER, CHART AND GRAPH
PLUGS, COAXIAL
POTENTIOMETERS, WIREWOUND
POWER SUPPLIES, AC
POWER SUPPLIES, DC
POWER SUPPLIES, PRECISION
RECORDERS, PAPER,
LOGGING AND GRAPHIC
RELAYS, COAXIAL
RELAYS, OVERLOAD
RELAYS, POWER
RELAYS, STEPPING
RELAYS, TELEPHONE
RELAYS, TIME DELAY
REMOTE CONTROL SYSTEMS
RESISTORS, VARIABLE,
WIREWOUND
RHEOSTATS
SHUNTS, METER
SWITCHES, COAXIAL
SWITCHES, KNIFE
SWITCHES, MECHANICALLY
ACTUATED
SWITCHES, ROTARY
TESTERS, INSULATION
TESTERS, VACUUM TUBE
TIMERS, ELECTRIC
TRANSFORMERS, FILAMENT
TRANSFORMERS, POWER
TRANSFORMERS, VARIABLE
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE
WATTMETERS

THE ENGLISH ELECTRIC CORP.

CALORIMETERS
VACUUM TUBES, CAMERA,
IMAGE-ORTHICON
VACUUM TUBES, CAMERA, VIDICON
VACUUM TUBES, TRANSMITTING

ENTRON, INC.

AMPLIFIER, CATV
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
CATV, CABLE TERMINALS
CATV, CHANNEL AMPLIFIERS
CATV, HEAD-END EQUIPMENT
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
FILTERS, OTHER
HEAD-END EQUIPMENT,
SEE CATV HEAD-END EQUIPMENT
POWER SUPPLIES, DC

ESSEX WIRE CORPORATION

RELAYS, BREAK-IN
RELAYS, GENERAL PURPOSE
RELAYS, OVERLOAD
RELAYS, PLUG-IN
RELAYS, POWER
RELAYS, SEQUENCING
RELAYS, TELEPHONE
RELAYS, THERMAL
RELAYS, TIME DELAY
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, AUTO
TRANSFORMERS, COUPLING
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER
TRANSFORMERS, RF
TRANSFORMERS, TRANSISTOR
TRANSFORMERS, VARIABLE

EUPHONICS MARKETING

ARMS, TONE
CARTRIDGES, PHONO

E-Z-HOOK TEST PRODUCTS

LEADS, TEST
PROBES, TEST LEAD

FAIRCHILD RECORDING EQUIPMENT

AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
ATTENUATORS, AUDIO
CARTRIDGES, PHONO
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, KITS
HEADS, DISC RECORDING
HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
LATHE - DISC RECORDING
MIXERS - ALSO SEE CONSOLES
POWER SUPPLIES, AC
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
RACKS, MOUNTING
RECORDERS, DISC, MAGNETIC
RECORDERS, MAGNETIC TAPE,
AUDIO
REVERBERATION DEVICES
TURNTABLES, PHONOGRAPH

THE FINNEY CO.

AMPLIFIER, TV, BOOSTER
ANTENNAS, FM
ANTENNAS, TV
ANTENNAS, TV,
MASTER-COMMUNITY
BALUNS

F & M SYSTEMS COMPANY

ANTENNAS, MOBILE
AUTOMATION EQUIPMENT
CALIBRATION SERVICE,
FREQUENCY
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COMMUNICATIONS SYSTEMS,
MICROWAVE
COMMUNICATIONS SYSTEMS,
MULTIPLEX
COMMUNICATIONS SYSTEMS,
TELEPRINTER
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500-MHZ
MICROWAVE SYSTEMS, OTHER
MOBILE EQUIPMENT
REMOTE CONTROL SYSTEMS
SWITCHING SYSTEMS
TRANSLATOR SYSTEMS
TV SYSTEMS, CLOSED CIRCUIT

FISHER BERKELEY CORPORATION

AMPLIFIER, AF,
GENERAL PURPOSE
CABLE, TELEPHONE
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
POWER SUPPLIES, DC

HERB FITZGERALD COMMUNICATIONS

AND ELECTRONICS
CALIBRATION SERVICE,
FREQUENCY

THE JAMES FLOYD FORD COMPANY

ALARM, INTRUDER
ALARM, SIGNAL
BACKGROUND MUSIC SERVICE
BROADCAST PROGRAMMING SERVICE
CALIBRATION SERVICE,
INSTRUMENT
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COMPUTER SERVICES
MAINTENANCE SERVICES, TV
PROCESSORS, FILM, B-W
RECORDING SERVICE, AUDIO,
TAPE
TELEPHONE EQUIPMENT
TV SYSTEMS, CLOSED CIRCUIT

FORT WORTH TOWER CO.

ANTENNAS, MICROWAVE
PREFABRICATED BUILDINGS
RADOMES
REFLECTORS, PASSIVE
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

GAMMA SCIENTIFIC, INC.
METERS, LIGHT

GATES RADIO COMPANY

AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, STEREO
AMPLIFIER, BRIDGING
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, POWER
ANTENNAS, AM
ANTENNAS, FM
ANTENNAS, MOBILE
ANTENNAS, TV
ARMS, TONE
AUTOMATION EQUIPMENT
BASE STATIONS
CABINETS, METAL
CABINETS, STORAGE, DISC
CABINETS, WOOD
CARTRIDGES, MAGNETIC TAPE
COILS, ANTENNA LOADING
COILS, CHOKER, RF
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, CABINETS
AND HARDWARE
CONSOLE, AUDIO, AM
DIVIDERS, POWER
DUMMY LOAD
EXCITERS, FM
FILTERS, ANTENNA
FILTERS, RF
FLASHERS, TOWER
GENERATORS, FM, STEREO
GENERATORS, FM, SUBCARRIER
HARDWARE, RACK
HOUSINGS, ANTENNA
MICROPHONES, DYNAMIC
MOBILE EQUIPMENT
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, SCA
MONITORS, FM SYSTEMS, STEREO
MONITORS, FREQUENCY
MONITORS, PHASE
MOUNTS, ANTENNA, FIXED
MOUNTS, ANTENNA, MOBILE
NETWORKS, MATCHING, AUDIO
NETWORKS, PHASING
OSCILLATORS, AM
OSCILLATORS, FM
OSCILLATORS, TV
POWER SUPPLIES, AC
POWER SUPPLIES, DC
PREAMPLIFIERS, VIDEO
PRESSURIZATION EQUIPMENT,
TRANSMISSION LINE
RACKS, MOUNTING
RECEIVERS, FM
RECORDERS, MAGNETIC TAPE,
AUDIO, CARTRIDGE
REMOTE CONTROL SYSTEMS
SPEAKERS
SWITCHING SYSTEMS
TAPE DECKS, MAGNETIC
TAPE, MAGNETIC RECORDING,
TEST
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
TRANSMISSION LINES
TRANSMITTER KITS
TRANSMITTERS, AM, 250 WATT
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, AM, 25 KW
TRANSMITTERS, AM, 50 KW
TRANSMITTERS, AM, OVER 50 KW
TRANSMITTERS, FM, 10 WATTS
TRANSMITTERS, FM, 50 WATTS
TRANSMITTERS, FM, 250 WATTS
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 3 KW
TRANSMITTERS, FM, 5 KW
TRANSMITTERS, FM, 7.5 KW
TRANSMITTERS, FM, 10 KW
TRANSMITTERS, FM, 15 KW
TRANSMITTERS, FM, 20 KW
TRANSMITTERS, FM, 40 KW
TRANSMITTERS, TV, 100 WATTS
TRANSMITTERS, TV, 500 WATTS
TRANSMITTERS, TV, 5 KW

GBC AMERICA CORP.

AMPLIFIER, CATV
AMPLIFIER, TV, VIDEO
INDUSTRIAL TV
MONITORS, VIDEO
TV SYSTEMS, CLOSED CIRCUIT
VACUUM TUBES, CAMERA, VIDICON

G C ELECTRONICS COMPANY

ADAPTERS, CONNECTOR
ADAPTERS, FM STEREO
ADAPTERS, TEST
ANCHORS, GUY
ANTENNAS, FM
ANTENNAS, MOBILE
ANTENNAS, TV
CABLE, ASSEMBLIES
CABLE, SHIELDED, AUDIO
CHARGERS, BATTERY
CIRCUIT BREAKERS

CLAMPS, CABLE
CLEANERS, CHEMICAL
CLEANERS, OTHER
CLIPS, TEST
COILS, DEGAUSSING
CONNECTORS, AF & MICROPHONE
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CORDS, DIAL
CORDS, LACING
COUPLERS
DECALCOMANIAS
DEGASMETIZERS, BULK TAPE
DEGASMETIZERS, HEAD
DESSICANTS
DIALS, INSTRUMENT
EARPHONES, HEADPHONES
EMPHASERS, TV IMAGE
FUSES
HARDWARE, CHASSIS
HARDWARE, DIAL POINTERS
HARDWARE, GENERAL
HARDWARE, GROMMETS
HARDWARE, RACK
HARDWARE, TOOLS
HARDWARE, TUBING, PLASTIC
HEAT SINKS
HOLDERS, FUSE
INSULATORS, ANTENNA
INSULATORS, FEED THROUGH
INSULATORS, STAND-OFF
INSULATORS, OTHER
JACKS
KNOBS
LEADS, TEST
LIGHTNING ARRESTERS
LUBRICANTS
MICROPHONE HARDWARE
MICROPHONE STANDS & BOOMS
MICROPHONES, DYNAMIC
MOUNTS, ANTENNA, FIXED
MOUNTS, ANTENNA, MOBILE
PLUGS, PHONE
PROBES, OSCILLOSCOPE
PROBES, TEST LEAD
RESISTORS, FIXED, CARBON
RESISTORS, VARIABLE,
WIREWOUND
SOCKETS, TUBE
SOLDER
SOLVENTS AND CLEANERS
SPLICERS, MAGNETIC TAPE
AND FILM
STROBE, DISCS
STROBE, LIGHTS
SWITCHES, KNIFE
SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, ROTARY
SWITCHES, SLIDE
SWITCHES, TOGGLE
TERMINALS, LUG
TERMINALS, SOLDER
TERMINALS, SOLDERLESS
TOOLS, SCREWDRIVERS

G E VISUAL COMMUNICATIONS PROD

AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, STEREO
AMPLIFIER, RF, POWER
AMPLIFIER, TV, VIDEO
ANTENNAS, TV
CABINETS, METAL
CABLE, SHIELDED, AUDIO
CAMERAS, TV, COLOR
CAMERAS, TV, MONOCHROME
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, AUDIO, FM
DEMODULATORS
DIPLEXERS
EQUALIZERS, AUDIO EMPHASIS
FILTERS, AUDIO
FILTERS, RF
GENERATORS, SIGNAL,
TV SYNCHRONIZING
INDUSTRIAL TV
MONITORS, AM SYSTEMS
MONITORS, FREQUENCY
MONITORS, VIDEO
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
RACKS, MOUNTING
SWITCHES
TRANSMITTERS, TV, 10 KW
TRANSMITTERS, TV, 50 KW
TRANSMITTERS, TV, 50 KW
TRANSMITTERS, TV, 100 KW
TV SYSTEMS, CLOSED CIRCUIT
VESTIGIAL SIDEBAND FILTERS

G E DISTRIBUTOR SALES FORCE

VACUUM TUBES
CARTRIDGES, PHONO
CRYSTALS, PIEZOELECTRIC
LAMPS, GLOW
LAMPS, EXCITER
LAMPS, PANEL
LAMPS, PROJECTION
SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMICONDUCTOR RECTIFIERS,
POWER

start with **SUPER SOUNDS FAIRCHILD**



New FAIRCHILD 42 input TV Network Mixer.



FAIRCHILD MASTER TAPE IMPROVEMENT SYSTEM

FAIRCHILD MTIS with "focused-gap" head design reduces bias-induced noise to a point where it is no greater than 2 db than the noise of virgin or bulk-erased tape. FAIRCHILD MTIS has an S/N ratio of 72 db on one track of a 4-track 1/2" tape. FAIRCHILD MTIS increases the recording level by 4 db over present standards, with the lowest harmonic, intermodulation, and cross-modulation distortion of only .5%. Only the FAIRCHILD MTIS comes in a compatible, convertible package allowing you to update your present tape transports to the highest quality "state-of-the-art" recording standards.

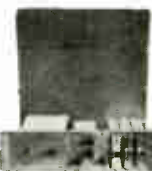


FAIRCHILD CONAX

The world-accepted standard to control high frequency spillovers due to pre-emphasis. Maintain high levels even with brass and crashing cymbals in FM and recording.

THE REVERBERTRON

The new compact reverberation system which gives your station that real big voice. With the Reverbertron you can have that Carnegie Hall effect as close as the gain control on the Reverbertron. And there's the added plus of an increase in apparent loudness of your station sound due to reverberation, as originally described by Dr. Maxfield.



FAIRCHILD COMPACT COMPRESSOR MODEL 663

Allows creation of those up tight levels that contribute materially to presence and loudness combined with overload protection. The FAIRCHILD Model 663 Compact Compressor produces no distortion despite the amount of compression used... no thumps, no noise. The 663 provides adjustable release time and up to 20 db of compression. Model 663 NL comes with unity gain and additional gain if needed with +18 dbm output.



FAIRCHILD PROGRAM EQUALIZER MODEL 664NL



An ideal no loss equalizer for broadcast and recording. The FAIRCHILD Model 664NL allows the production of the "hot, solid commercial" sound standard with major recording studios; transforms any conventional console into "Big Board sound". 1 1/2" x 5 1/4" high unit provides equalization up to 10 db at 4, 6, 8, 10, or 15 KHZ and low end equalization up to 10 db. Rolloffs also provided. The Model 664NLB has equalization at 2, 3, 4, 5, and 7.5 KHZ for motion picture demands. The FAIRCHILD Program Equalizer contains equalization plus 18 dbm amplifier output. Put life into your sound with the FAIRCHILD Equalizer.

FAIRCHILD LIMITER MODEL 670

Fast attack Stereo Limiter (50 microseconds) with low distortion and absence of thumps. Sum and difference limiting position eliminates floating stereo image. Includes regular channel A and B limiting. Dual controls, dual meters provided. Used throughout the world. Flexible release times make it indispensable in stereo recording and broadcasting.



Why are 6 FAIRCHILD CONAX'S on top of the EMPIRE STATE BUILDING?



Several New York FM and TV stations, including WNE-TV, WPIX-FM, WPIX-TV, WOR-FM, WOR-TV, and WQXR-FM, value their transmission location on top of the Empire State Building and they also value their audience. The FAIRCHILD CONAX allows these stations to maintain high average listening levels without danger of over-modulation caused by high frequency spikes and thereby increasing fringe area coverage. The super-fast attack and release times of the FAIRCHILD CONAX makes this instantaneous control inaudible to the listener's ear. The FAIRCHILD CONAX does not "muddy-up" the top in an effort to control it. Easily integrated into existing systems, the FAIRCHILD CONAX does not obsolete conventional compressors or limiters — it actually improves their performance. Only the FAIRCHILD CONAX is the world accepted solution for high frequency pre-emphasis problems. Join the "1000 Club"... the satisfied users of the FAIRCHILD CONAX in recording and broadcasting throughout the world. Write to FAIRCHILD — the pacemaker in professional audio products — for complete details.

Write to FAIRCHILD — the pacemaker in professional audio products — for complete details.

FAIRCHILD

RECORDING EQUIPMENT CORPORATION
10-40 45th Ave., Long Island City 1, N. Y.

FAIRCHILD

RECORDING EQUIPMENT CORPORATION
10-40 45th Ave., Long Island City 1, N. Y.

SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR
SEMICONDUCTORS, THYRISTORS
SEMICONDUCTORS,
TRANSISTORS, AF
SEMICONDUCTORS,
TRANSISTORS, FE
SEMICONDUCTORS, TRANSISTORS,
GENERAL
SEMICONDUCTORS,
TRANSISTORS, RF
VACUUM TUBES, CATHODE RAY,
TV, COLOR
VACUUM TUBES, CATHODE RAY,
TV, MONOCHROME
VACUUM TUBES, RECEIVING
VACUUM TUBES, TRANSMITTING

G E INDUSTRIAL SALES OPERATION

AMMETERS, AC
AMMETERS, AC, THERMOCOUPLE
AMMETERS, DC
AMMETERS, RF
CIRCUIT BREAKERS
METERS, DB AND VU
METERS, DB AND VU, WIDE RANGE
SHUNTS, METER
TRANSFORMERS, GENERAL
VOLTMETERS, AC
VOLTMETERS, DC
WATTMETERS

G E CAPACITOR DEPARTMENT

BATTERIES, NICKEL CADMIUM
CAPACITORS, FIXED, AIR
CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED, MICA
CAPACITORS, FIXED, OIL-FILLED
CAPACITORS, FIXED, OTHER

G E SUPPLY COMPANY

CLOCKS
METERS, LIGHT
RECEIVERS, AM
REGULATORS, CURRENT
REGULATORS, VOLTAGE

G E SALES AND DISTRIBUTION

RECEIVERS, TV, COLOR
RECEIVERS, TV, MONOCHROME

G E COMMUNICATION PRODUCTS

MOBILE EQUIPMENT

G E PICKUP TUBE OPERATION

VACUUM TUBES, CAMERA,
IMAGE-ORTHICON
VACUUM TUBES, CAMERA, VIDICON

GENERAL ELECTRIC COMPANY

AMMETERS, AC
AMMETERS, DC
BALLASTS, LAMP
BATTERIES, NICKEL CADMIUM
BATTERIES, OTHER
BRIDGES
CAPACITORS, FIXED,
ELECTROLYTIC
CAPACITORS, FIXED, FILM
CAPACITORS, FIXED, OIL-FILLED
CAPACITORS, FIXED, PAPER
CAPACITORS, FIXED, OTHER
CHARGERS, BATTERY
CIRCUIT BREAKERS
COMPUTER EQUIPMENT
CONVERTERS
DETECTORS, MICROWAVE
DIVIDERS, FREQUENCY
DIVIDERS, VOLTAGE
FUSES
GENERATORS, POWER,
ELECTRIC MOTOR
HEATING ELEMENTS
INDUSTRIAL TV
INTEGRATED CIRCUITS
LIGHTNING ARRESTERS
METERS, PHASE ANGLE
MICROWAVE COMPONENTS
PANELS, INSTRUMENT,
FOR RACK MOUNTING
POWER SUPPLIES, AC
POWER SUPPLIES, DC
RECORDERS, PAPER,
LOGGING AND GRAPHIC
RECTIFIERS - ALSO SEE SEMI-
CONDUCTORS & VACUUM TUBES
RECTIFIERS, SELENIUM
REGULATORS, CURRENT
REGULATORS, VOLTAGE
RELAYS, GENERAL PURPOSE
RELAYS, LATCHING
RELAYS, OVERLOAD
RELAYS, PHOTOELECTRIC
RELAYS, POWER
RELAYS, THERMAL
RELAYS, TIME DELAY
REMOTE CONTROL SYSTEMS
RESISTORS, FIXED, WIREWOUND
RESISTORS, FIXED, OTHER
RHEOSTATS
SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
POWER
SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR
SEMICONDUCTORS, TRANSISTORS,
GENERAL
SHUNTS, METER
SWITCHES, FOOT
SWITCHES, INTERLOCK
SWITCHES, LEVER
SWITCHES, MECHANICALLY
ACTUATED

SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, ROTARY
SWITCHES, SNAP
SWITCHES, THERMAL
SWITCHES, TOGGLE
TERMINAL BLOCKS
TERMINAL BOARDS
TESTERS, BATTERY
TESTERS, INSULATION
TIMERS, ELECTRIC
TRANSFORMERS, AUTO
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, POWER
TRANSFORMERS, VARIABLE
TV SYSTEMS, CLOSED CIRCUIT
VOLTMETERS, AC
VOLTMETERS, DC
WATTMETERS

GENERAL MICROWAVE CORPORATION

ANALYZERS, NOISE
ATTENUATORS, FIXED
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
BRIDGES
METERS, POWER
METERS, STANDING WAVE
WATTMETERS
WAVEGUIDE AND
ASSOCIATED COMPONENTS

GENERAL RADIO COMPANY

ADAPTERS, CONNECTOR
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, DC
AMPLIFIER, PULSE
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, POWER
ANALYZERS, DISTORTION
ANALYZERS, HARMONIC
ANALYZERS, NOISE
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
BALLUNS
BOXES, DECADE, CAPACITOR
BOXES, DECADE, INDUCTOR
BOXES, DECADE, RESISTOR
BRIDGES
CABLE, ASSEMBLIES
CABLE, COAXIAL, FLEXIBLE
CAPACITORS, FIXED, AIR
CAPACITORS, FIXED, MICA
CAPACITORS, FIXED, OTHER
CAPACITORS, VARIABLE
CLOCKS
CONNECTORS, AF & MICROPHONE
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
COUNTERS, FREQUENCY
DELAY LINES
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
DIALS, INSTRUMENT
DIVIDERS, FREQUENCY
DIVIDERS, VOLTAGE
FILTERS, AUDIO
FILTERS, RF
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, RF
GENERATORS, SIGNAL,
SQUARE WAVE
INDUCTANCES, FIXED
INDUCTANCES, VARIABLE
JACKS
JOINTS, ROTARY, COAXIAL
KNOBS
METERS, FREQUENCY
METERS, FREQUENCY CALIBRATING
MICROWAVE COMPONENTS
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
PLUGS, COAXIAL
POTENTIOMETERS, WIREWOUND
POWER SUPPLIES, AC
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, PAPER,
LOGGING AND GRAPHIC
REGULATORS, VOLTAGE
RESISTORS, FIXED,
NONINDUCTIVE
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, WIREWOUND
RESISTORS, VARIABLE,
WIREWOUND
RHEOSTATS
STROBE, DISCS
STROBE, LIGHTS
TESTERS, CAPACITOR
TESTERS, INSULATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUTO
TRANSFORMERS, VARIABLE
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE

GENERAL RADIO COMPANY
ADAPTERS, CONNECTOR
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, DC
AMPLIFIER, PULSE
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, POWER
ANALYZERS, DISTORTION
ANALYZERS, HARMONIC
ANALYZERS, NOISE
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
BALLUNS
BOXES, DECADE, CAPACITOR
BOXES, DECADE, INDUCTOR
BOXES, DECADE, RESISTOR
BRIDGES
CABLE, ASSEMBLIES
CABLE, COAXIAL, FLEXIBLE
CAPACITORS, FIXED, AIR
CAPACITORS, FIXED, MICA
CAPACITORS, FIXED, OTHER
CAPACITORS, VARIABLE
CLOCKS
CONNECTORS, AF & MICROPHONE
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
COUNTERS, FREQUENCY
DELAY LINES
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
DIALS, INSTRUMENT
DIVIDERS, FREQUENCY
DIVIDERS, VOLTAGE
FILTERS, AUDIO
FILTERS, RF
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, RF
GENERATORS, SIGNAL,
SQUARE WAVE
INDUCTANCES, FIXED
INDUCTANCES, VARIABLE
JACKS
JOINTS, ROTARY, COAXIAL
KNOBS
METERS, FREQUENCY
METERS, FREQUENCY CALIBRATING
MICROWAVE COMPONENTS
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
PLUGS, COAXIAL
POTENTIOMETERS, WIREWOUND
POWER SUPPLIES, AC
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, PAPER,
LOGGING AND GRAPHIC
REGULATORS, VOLTAGE
RESISTORS, FIXED,
NONINDUCTIVE
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, WIREWOUND
RESISTORS, VARIABLE,
WIREWOUND
RHEOSTATS
STROBE, DISCS
STROBE, LIGHTS
TESTERS, CAPACITOR
TESTERS, INSULATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUTO
TRANSFORMERS, VARIABLE
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE

GENERAL TELEVISION NETWORK
PROJECTORS, TV, LARGE SCREEN
STANDS, TELEVISION MONITOR

GIBBS MFG. & RESEARCH CORP.
CABLE, ASSEMBLIES
CLOCKS
CONVERTERS
GENERATORS, FM, SUBCARRIER
GENERATORS, SIGNAL, AF

GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL, RF
GENERATORS, SIGNAL,
SQUARE WAVE
INVERTERS, DC TO AC, CHOPPER
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
OSCILLATORS, FM
OSCILLATORS, TV
OSCILLATORS, OTHER
POWER SUPPLIES, AC
POWER SUPPLIES, PRECISION
TIMERS, ELECTRIC

J W GIBSON CO., INC.

CLEANERS, CHEMICAL

GOTHAM AUDIO CORPORATION

ARMS, TONE
ATTENUATORS, FIXED
CABLE, COAXIAL, FLEXIBLE
CABLE, SHIELDED, AUDIO
CARTRIDGES, PHONO
CONNECTORS, AF & MICROPHONE
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, KITS
EARPHONES, HEADPHONES
EDITORS, VIDEO TAPE
EQUALIZERS, AUDIO EMPHASIS
HEADS, DISC RECORDING
LATHE, DISC RECORDING
METERS, DB AND VU
METERS, FLUTTER & WDW
MICROPHONE HARDWARE
MICROPHONE STANDS & BODMS
MICROPHONES, CONDENSER
MIXERS - ALSO SEE CONSOLES
MONITORS, FM SYSTEMS, STEREO
OHMMETERS
POTENTIOMETERS, CARBON
RECORDERS, MAGNETIC TAPE,
AUDIO
REVERBERATION DEVICES
TESTERS, BATTERY
TESTERS, INSULATION
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, TRANSISTOR
TURNTABLES, PHONOGRAPH
VOLTMETERS, AC

HOUSTON FEARLESS CORP.

CAMERA, MOUNTING EQUIPMENT
DOLLIES, CAMERA
MICROPHONE STANDS & BODMS
PROCESSORS, FILM, B-W
PROCESSORS, FILM, COLOR

GRADD LABORATORIES, INC.

CARTRIDGES, PHONO

GRANTHAM SCHOOLS

EDUCATION FACILITIES, SCHOOLS

GRAY RESEARCH & DEVELOPMENT CO

ARMS, TONE
EQUALIZERS, AUDIO EMPHASIS
LENSES, OPTICAL, FIXED
PROJECTORS, SLIDE
TURNTABLES, PHONOGRAPH

GREENLEE TOOL COMPANY

TOOLS, PUNCH, CHASSIS

GREGORY AMPLIFIER CORP

AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, REVERBERATION
POWER SUPPLIES, AC
PREAMPLIFIERS, AUDIO
REVERBERATION DEVICES
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
SPEAKERS

GRINNAN FIXTURE COMPANY

CABINETS, STORAGE, DISC
CABINETS, STORAGE, FILM
CABINETS, STORAGE,
MAGNETIC TAPE
CABINETS, WOOD
CONSOLE, CABINETS
AND HARDWARE
DISPLAY EQUIPMENT, TV
SERVICES, INSTALLATION

GULF ELECTRO-SALES, INC.

SERVICES, INSTALLATION

G-V CONTROLS INC.

RELAYS, OVERLOAD
RELAYS, THERMAL
RELAYS, TIME DELAY
SWITCHES, THERMAL
TIMERS, ELECTRIC

HAMILTON HALL RESISTOR CORP.

RESISTORS, FIXED, WIREWOUND

HANCOCK TELECONTROL

AUTOMATION EQUIPMENT
COMPUTER EQUIPMENT
REMOTE CONTROL SYSTEMS
SWITCHING SYSTEMS

HARTLEY PRODUCTS

ACOUSTIC MATERIALS
ENCLOSURES, SPEAKER
NETWORKS, MATCHING, AUDIO

SPEAKERS
HARVEY RADIO CO., INC.
COMPUTER EQUIPMENT
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, AM
MIXERS - ALSO SEE CONSOLES
REWINDERS, TAPE
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
TAPE DUPLICATORS

HARWALD COMPANY

CABINETS, STORAGE, DISC
CABINETS, STORAGE, FILM
EDITORS, FILM
EDUCATION FACILITIES, EQPT
PROJECTORS, SLIDE
REELS, FILM
REWINDERS, FILM
SOLVENTS AND CLEANERS
SPLICERS, MAGNETIC TAPE
AND FILM

HARWOOD MFG. CO.

CABINETS, METAL
LAMP ASSEMBLIES
LIGHTING, TV, COMPONENTS

HAYDEN BOOK COMPANY

EDUCATION FACILITIES,
PUBLISHERS

HEATH COMPANY

ADAPTERS, FM STEREO
AMPLIFIER, AF, STEREO
BOXES, DECADE, CAPACITOR
BOXES, DECADE, RESISTOR
BRIDGES
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
COMPUTER EQUIPMENT
EARPHONES, HEADPHONES
GENERATORS, FM, STEREO
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DFT BAR
GENERATORS, SIGNAL, RF
GENERATORS, SIGNAL,
SQUARE WAVE
KITS
OHMMETERS
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
OSCILLATORS, FM
OSCILLATORS, TV
OSCILLOSCOPES
POWER SUPPLIES, AC
POWER SUPPLIES, DC
POWER SUPPLIES, PRECISION
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, MULTIPLEX
RECEIVERS, TV, COLOR
RECEIVERS, TV, MONOCHROME
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, PAPER,
LOGGING AND GRAPHIC
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE

HEINTZ & KAUFMAN, LTD

RECTIFIERS - VACUUM TUBES
VACUUM TUBES, RECEIVING
VACUUM TUBES, TRANSMITTING

HEWLETT - PACKARD CO.

ADAPTERS, CONNECTOR
ADAPTERS, TEST
AMMETERS, AC
AMMETERS, DC
AMMETERS, RF
AMPLIFIER, VIDEO, SWEEP
ANALYZERS, DISTORTION
ANALYZERS, HARMONIC
ANALYZERS, NOISE
ANALYZERS, VIDEO
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
BRIDGES
CALIBRATION SERVICE,
FREQUENCY
CALIBRATION SERVICE,
INSTRUMENT
CAMERAS, OSCILLOSCOPE
CASES, PORTABLE,
ELECTRONIC EQUIPMENT
CLIPS, TEST
COUNTERS, FREQUENCY
DEMAGNETIZERS, BULK TAPE
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
GENERATORS, FM, STEREO
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL, RF
INDUCTANCES, FIXED
METERS, FREQUENCY
METERS, FREQUENCY CALIBRATING
METERS, PHASE ANGLE
METERS, POWER
METERS, STANDING WAVE
METERS - SEE SPECIFIC TYPES
MICROWAVE COMPONENTS
MONITORS, FM SYSTEMS, MONO
MONITORS, FREQUENCY

get complete coverage
and combination rates
in your Domestic
and Foreign Markets

Look at the facts below to see how BROADCAST ENGINEERING and RADIO y TELEVISION give you complete coverage, both domestic and foreign, of the ever-expanding broadcast-communications market. And this complete coverage—almost 30,000 total circulation*—is now available with money-saving combination rates in both magazines.

To sell more at a lower cost, include these two influential publications, along with THE BROADCAST INDUSTRY BUYERS GUIDE, in your advertising program.

*November figures are projected totals based on business before adjustments. Any variation on the December 31st statement will be minimal.

CIRCULATION FACTS

Broadcast Engineering

November, 1966

123% INCREASE SINCE 1963—Circulation has increased almost 12,000 since 1963, giving you the most complete coverage of management and technical personnel of AM, FM, CATV and TV broadcast stations.

BUSINESS AND INDUSTRY		NOV
RADIO & TV STATIONS and NETWORKS:		
Classification by Title		
Owners, Presidents, Vice Presidents, general managers, and station managers		5,418
Chief engineers, engineers, supervisors and technicians		9,202
Company and other copies		624
	SUB TOTAL	15,244
CONSULTING ENGINEERS		817
RECORDING STUDIOS		688
MANUFACTURERS & DISTRIBUTORS of Electronic & other Broadcasting Equipment		1,914
GOVERNMENT AGENCIES, LIBRARIES & SCHOOLS		1,075
STUDENTS		194
CLOSED CIRCUIT TV		21
COMMUNITY ANTENNA & TELEVISION SYSTEMS		1,547
	TOTAL	21,500

Radio y Television

November, 1966

Circulation is controlled with 8120 going to owners, management and technical personnel at all AM, FM and TV stations in Latin American countries, Spain and other Spanish and Portuguese-speaking areas of the world. In addition, RADIO y TELEVISION goes to wholesalers, agents, distributors and manufacturers of broadcast-related electronic equipment in all these countries . . . plus radio and television stations in the United States with Spanish and Portuguese programming.

Argentina	598	Nicaragua	105
Bolivia	168	Panama	200
Brazil	1081	Paraguay	79
Colombia	477	Peru	471
Costa Rica	143	Philippines	46
Chile	363	Portugal	176
Dominican Republic	175	Puerto Rico	238
Ecuador	342	Spain	490
El Salvador	120	Uruguay	216
Guatemala	188	USA (Spanish Stations)	687
Honduras	161	Venezuela	400
Mexico	1048		
Miscellaneous	148	TOTAL	8120

Reach this
Combined
Circulation
of 29,620
at Lower Cost
with
Combination
Rates

Combination rates with BROADCAST ENGINEERING and RADIO y TELEVISION are available on request. EXAMPLE: 12 insertions in each publication earn the 24-time rate in both, or 6 insertions in each earn the 12-time rate in both.

MONITORS, WAVEFORM
OHMMETERS
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLOSCOPES
POWER SUPPLIES, DC
POWER SUPPLIES, PRECISION
PROBES, OSCILLOSCOPE
PROBES, TEST LEAD
RECORDERS, PAPER,
LOGGING AND GRAPHIC
SEMICONDUCTOR OIODES
TELEPHONE EQUIPMENT
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE
WAVEGUIDE AND
ASSOCIATED COMPONENTS

HICKOK ELECTRICAL INSTRUMENTS

AMMETERS, AC
AMMETERS, DC
BRIDGES
COUNTERS, FREQUENCY
GENERATORS, FM, STEREO
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL, RF
METERS, FREQUENCY
METERS, PHASE ANGLE
METERS - SEE SPECIFIC TYPES
OHMMETERS
OSCILLATORS, AM
OSCILLATORS, FM
OSCILLATORS, TV
OSCILLOSCOPES
SWITCHES, MULTICONTACT
TESTERS, BATTERY
TESTERS, CAPACITOR
TESTERS, SEMICONDUCTOR
TESTERS, VACUUM TUBE
TIMERS, ELECTRIC
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE

S. HIMMELSTEIN AND COMPANY

DELAY DEVICES, AF

HOLLAND ELECTRONICS INC.

ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, RF
ATTENUATORS, VIDEO
CORDS, PATCH
FILTERS, RF
JACK PANEL ASSEMBLIES

HOLLINGSWORTH SOLDERLESS

TERMINAL COMPANY
TERMINALS, LUG
TERMINALS, SOLOERLESS
TOOLS, CRIMPERS
TOOLS, HAND

HOUSTON ELECTRONICS CO.

ALARM, FAULT
ALARM, INTRUDER
AMPLIFIER, SENSING
BROADCAST PROGRAMMING SERVICE
CIRCUIT BREAKERS
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
FLASHERS, TOWER
LIGHTING, TV, CONTROLS
MIXERS - ALSO SEE CONSOLES
RELAYS, PHOTOELECTRIC
RELAYS, TIME DELAY
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER

HUGHEY & PHILLIPS

ALARM, FAULT
FLASHERS, TOWER
LAMP ASSEMBLIES
RELAYS, LIGHT-INDICATING
RELAYS, PHOTOELECTRIC
TRANSFORMERS, AUTO
TRANSFORMERS, POWER

HUNT-PIERCE CORP

LIFTS, AERIAL, TRUCK-MOUNTED

HY-GAIN ELECTRONICS

ANTENNAS, CATV
ANTENNAS, MOBILE
TOWERS, ANTENNA,
CATV, HEAD-END

IMPX ELECTRONICS

ADAPTERS, CONNECTOR
ADAPTERS, FM STEREO
BATTERIES, LEAD ACID
BATTERIES, NICKEL CADMIUM
CHARGERS, BATTERY
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
RECORDERS, MAGNETIC TAPE,
AUDIO
TAPE DECKS, MAGNETIC
TAPE, MAGNETIC RECORDING,
AUDIO

INDUSTRIAL DEVICES

CLIPS, TEST
LAMP ASSEMBLIES

LAMPS, GLOW
LAMPS, PANEL
REELS, CABLE, AUTOMATIC
SWITCHES, ROTARY

INDUSTRIAL ELECTRIC REELS

REELS, CABLE, AUTOMATIC

INSTRUMENT LABORATORIES CORP.

AMMETERS, AC
AMMETERS, DC
CALIBRATION SERVICE,
INSTRUMENT
GENERATORS, SIGNAL, AF
OHMMETERS
VOLTMETERS, AC
VOLTMETERS, VACUUM TUBE

INTERNATIONAL GOOD MUSIC

AMPLIFIER, AF
GENERAL PURPOSE
AMPLIFIER, SENSING
AUTOMATION EQUIPMENT
BACKGROUND MUSIC SERVICE
BROADCAST PROGRAMMING SERVICE
CARTRIDGES, MAGNETIC TAPE
CATV, HEAD-END EQUIPMENT
GENERATORS, SIGNAL, AF
RECORDERS, MAGNETIC TAPE,
AUDIO
SWITCHERS
SWITCHING SYSTEMS
TAPE DECKS, MAGNETIC

INTERNATIONAL NUCLEAR CORP

AMPLIFIER, BRIDGING
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, STABILIZING
AMPLIFIER, TV, VIDEO
CONSOLE, AUDIO, TV
MODULATORS, TV
POWER SUPPLIES, DC
PREAMPLIFIERS, VIDEO
SWITCHERS
SWITCHES, CROSSBAR
SWITCHING MATRIXES
SWITCHING SYSTEMS

INTERNATIONAL RECTIFIER

HEAT SINKS
RECTIFIERS - ALSO
SEE SEMICONDUCTORS
RECTIFIERS, SELENIUM
SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMICONDUCTOR RECTIFIERS,
POWER
SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR

SEMICONDUCTORS, THYRISTORS
SEMICONDUCTORS,
TRANSISTORS, AF
SEMICONDUCTORS, TRANSISTORS,
GENERAL
SEMICONDUCTORS,
TRANSISTORS, RF

IRC, INC.

DIVIDERS, VOLTAGE
POTENTIOMETERS, CARBON
POTENTIOMETERS, WIREWOUND
RECTIFIERS, SELENIUM
RESISTORS, FIXED, CARBON
RESISTORS, FIXED,
NONINDUCTIVE
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, WIREWOUND
RESISTORS, FIXED, OTHER
RESISTORS, VARIABLE,
WIREWOUND
SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR
SEMICONDUCTORS, THYRISTORS

ITI ELECTRONICS

DISPLAY EQUIPMENT, TV
INDUSTRIAL TV
INVERTERS, DC TO AC,
SOLID STATE
OSCILLOSCOPES

ITT CANNON ELECTRIC

CABLE, ASSEMBLIES
CONNECTORS, AF & MICROPHONE
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CONNECTORS, POWER
CONNECTORS, RF
FILTERS, RF
INTEGRATED CIRCUITS
WIRING AND CABLING SERVICES

ITT TELECOMMUNICATIONS

COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
MICROWAVE
COMMUNICATIONS SYSTEMS,
MULTIPLY
DIALS, TELEPHONE
MICROWAVE SYSTEMS, 2500 MHZ
RELAYS, TELEPHONE
SWITCHES, CROSSBAR
SWITCHES, TELEPHONE TYPE
SWITCHING SYSTEMS, TELEPHONE
TELEPHONE EQUIPMENT

ITT WIRE & CABLE DIV

CABLE, COAXIAL, FLEXIBLE

CABLE, COAXIAL, RIGID
CABLE, DIRECT-BURIAL
CABLE, TELEPHONE
CORDS, SET
FUSES
WIRE, INSULATED, HIGH VOLTAGE
WIRE, INSULATED, HOOKUP
WIRE, SHIELDED

JAMPRO ANTENNA COMPANY

ANTENNAS, AM
ANTENNAS, CATV
ANTENNAS, FM
ANTENNAS, TV
ANTENNAS, 2500 MHZ
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
DIPLEXERS
DUMMY LOAD
FILTERS, ANTENNA
FILTERS, RF
FILTERS, HYBRID
PLUGS, COAXIAL
SWITCHES, COAXIAL
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
TRANSMISSION LINES
VEGETIGIAL SIDEBAND FILTERS
WIRE, BARE, COPPER
WIRE, BARE, COPPER STRAP

JENNINGS RADIO

CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED, OTHER
CAPACITORS, VARIABLE
DIVIDERS, VOLTAGE
RELAYS, COAXIAL
RELAYS, GENERAL PURPOSE
RELAYS, LATCHING
RELAYS, OVERLOAD
RELAYS, POWER
RELAYS, STEPPING
SWITCHERS
SWITCHES, COAXIAL
SWITCHES, CROSSBAR
SWITCHES, MECHANICALLY
ACTUATED
SWITCHES, ROTARY
SWITCHING MATRIXES
SWITCHING SYSTEMS

JENSEN MANUFACTURING DIVISION

EARPHONES, HEADPHONES
EDUCATION FACILITIES,
PUBLISHERS
EDUCATION FACILITIES, EQPT
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
SPEAKER COMPONENTS
SPEAKERS

JERROLD ELECTRONICS

ADAPTERS, CONNECTOR
ADAPTERS, TEST
ALARM, FAULT
AMPLIFIER, BRIDGING
AMPLIFIER, CATV
AMPLIFIER, DISTRIBUTION
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, TV, BOOSTER
ANTENNAS, AM
ANTENNAS, CATV
ANTENNAS, FM
ANTENNAS, MICROWAVE
ANTENNAS, MOBILE
ANTENNAS, TV
ANTENNAS, TV,
MASTER-COMMUNITY
ANTENNAS, 2500 MHZ
ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
BALUNS
BRIDGES
CABINETS, METAL
CABLE, ASSEMBLIES
CABLE, CATV, HARWARE
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
CABLE, DIRECT-BURIAL
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
CATV, CABLE TERMINALS
CATV, CHANNEL AMPLIFIERS
CATV, HEAD-END EQUIPMENT
CATV, ORIGINATION EQUIPMENT
COMMUNICATIONS SYSTEMS,
MICROWAVE
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
CONVERTERS
DELAY LINES
DEMODULATORS
DETECTORS, MICROWAVE
FILTERS, ANTENNA
FILTERS, RF
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, RF
GENERATORS, SIGNAL,
SQUARE WAVE
HEAD-END EQUIPMENT,
SEE CATV HEAD-END EQUIPMENT
INDUSTRIAL TV
METERS, FIELD STRENGTH
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL

MICROWAVE SYSTEMS, 2500 MHZ
MICROWAVE SYSTEMS, OTHER
MODULATORS, TV
MOUNTS, ANTENNA, FIXED
NETWORKS, PHASING
POWER SUPPLIES, AC
PREAMPLIFIERS, VIDEO
RADOMES
STL EQUIPMENT
SWITCHES, COAXIAL
SWITCHES, ROTARY
TOWERS, ANTENNA,
CATV, HEAD-END
TRANSMISSION LINES
TV SYSTEMS, CLOSED CIRCUIT
WAVEGUIDE AND
ASSOCIATED COMPONENTS

JETRONIC INDUSTRIES

AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
RECORDERS, MAGNETIC TAPE,
AUDIO
TAPE DECKS, MAGNETIC

J M ELECTRONICS CO.

COMMUNICATIONS SYSTEMS,
LAND MOBILE
MOBILE EQUIPMENT
TV SYSTEMS, CLOSED CIRCUIT

JOA CARTRIDGE SERVICE

CARTRIDGES, MAGNETIC TAPE
DEMAGNETIZERS, BULK TAPE
DEMAGNETIZERS, HEAD
HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
MAINTENANCE SERVICES,
CARTRIDGE, TAPE
RECORDERS, MAGNETIC TAPE,
AUDIO
TAPE, MAGNETIC RECORDING,
AUDIO
VACUUM TUBES, TRANSMITTING

J F JOHNSON COMPANY

AMPLIFIER, RF, POWER
CAPACITORS, VARIABLE
COILS, CHOKE, RF
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COUPLERS
HARDWARE, PANEL
HOLDERS, CRYSTAL
INDUCTANCES, FIXED
INDUCTANCES, VARIABLE
INSULATORS, ANTENNA
INSULATORS, FEED THROUGH
INSULATORS, STAND-OFF
INSULATORS, OTHER
JACKS
MOBILE EQUIPMENT
PROBES, TEST LEAD
RELAYS, ANTENNA
SOCKETS, CRYSTAL
SOCKETS, LAMP
SOCKETS, TUBE
SWITCHES, KNIFE
SWITCHES, SNAP
TRANSMITTER KITS
TRANSMITTERS, AM, 250 WATT
TRANSMITTERS, AM, 1 KW

JOHNSON ELECTRONICS, INC.

AMPLIFIER, AF, MONAURAL
RECEIVERS, FM
RECEIVERS, HF
RECEIVERS, MULTIPLEX
RECEIVERS, MULTIPLEX

JORDAN ELECTRIC COMPANY

ATTENUATORS, AUDIO
ATTENUATORS, FIXED
BOXES, DECADE, RESISTOR
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, WIREWOUND

KAHN RESEARCH LABORATORIES

AMPLIFIER, AF,
PEAK LIMITING, AM
CONVERTERS
EXCITERS, FM
RECEIVERS, AM
RECEIVERS, HF

KAISER-COX

AMPLIFIER, CATV
ANTENNAS, CATV
CABLE, CATV, HARWARE
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
CATV, CABLE TERMINALS
CATV, CHANNEL AMPLIFIERS
CATV, HEAD-END EQUIPMENT
CATV, ORIGINATION EQUIPMENT
CONNECTORS, COAXIAL CABLE
HEAD-END EQUIPMENT,
SEE CATV HEAD-END EQUIPMENT
TV SYSTEMS, CLOSED CIRCUIT

THE KALART COMPANY

EDITORS, FILM
PROJECTORS, FILM
PROJECTORS, SLIDE
SPLICERS, MAGNETIC TAPE
AND FILM
TV SYSTEMS, CLOSED CIRCUIT,
PROJECTORS

KAPPA NETWORKS, INC.

DELAY LINES
FILTERS, RF
INDUCTANCES, FIXED

INDUCTANCES, VARIABLE
TRANSFORMERS, RF

KARG LABORATORIES

ADAPTERS, FM STEREO
AMPLIFIER, AF, STEREO
GENERATORS, FM, STEREO
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, STEREO
RECEIVERS, FM
RECEIVERS, MULTIPLEX
RECEIVERS, SCA

MATHIAS KLEIN & SONS

TOOLS, CRIMPERS
TOOLS, CUTTERS
TOOLS, HAND
TOOLS, PLIERS
TOOLS, SCREWDRIVERS
TOOLS, WRENCHES

KLINE IRON & STEEL COMPANY

TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

KOSS ELECTRONICS

AMPLIFIER, AF, STEREO
ARMS, TONE
EARPHONES, HEADPHONES
HEADS, DISC RECORDING
LATHE, DISC RECORDING
PREAMPLIFIERS, AUDIO
SPEAKERS
TURNTABLES, PHONOGRAPH

HERB KRECKMAN CO

ANTENNAS, MOBILE
ANTENNAS, REMOTE PICKUP

KRS INSTRUMENTS DIVISION

ANALYZERS, VIDEO
AUTOMATION EQUIPMENT
CARTRIDGES, MAGNETIC TAPE
EDUCATION FACILITIES, EQPT
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO, CARTRIDGE
RECORDERS, MAGNETIC TAPE,
LOGGING
TAPE DECKS, MAGNETIC
TAPE, RECORDING, GRAPHIC

LACROSSE ELECTRONICS

RECORDERS, MAGNETIC TAPE,
AUDIO, CARTRIDGE

LAFAYETTE RADIO ELECTRONICS

TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, AUTO
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, POWER
TRANSFORMERS, TRANSISTOR

LAKE ELECTRONICS, INC.

COILS, DEFLECTION
AND FOCUSING
CONSOLE, AUDIO, TV
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL,
SQUARE WAVE
GENERATORS, SIGNAL,
TV, SYNCHRONIZING
INDUCTANCES, FIXED
INDUSTRIAL TV
LENSES, OPTICAL, ZOOM
MONITORS, VIDEO
SEMICONDUCTORS,
TRANSISTORS, AF
SEMICONDUCTORS, TRANSISTERS,
GENERAL
SPEAKERS
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER
TRANSFORMERS, RF
TRANSFORMERS, TRANSISTOR
TRANSFORMERS, VARIABLE
YOKES, DEFLECTION

LAMPKIN LABORATORIES

METERS, FREQUENCY
METERS - SEE SPECIFIC TYPES
MONITORS, FREQUENCY
MONITORS, MODULATION

LANG ELECTRONICS, INC.

AMPLIFIER, AF,
GENERAL PURPOSE
CABINETS, METAL
CABINETS, WOOD
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, CABINETS
AND HARDWARE
MIXERS - ALSO SEE CONSOLES
STROBE, DISCS
TAPE DUPLICATORS

LANGEVIN

AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, REMOTE
AMPLIFIER, BRIDGING
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
EQUALIZERS, AUDIO EMPHASIS
FILTERS, AUDIO
NETWORKS, MATCHING, AUDIO
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
SWITCHES, MULTICONTACT
SWITCHES, ROTARY

JAMES B LANSING SOUND CO

AMPLIFIER, AF, STEREO
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, THEATER
SPEAKER COMPONENTS
SPEAKERS

LAVIOLETTE ELECTRONICS

MONITORS, VIDEO

LENKURT ELECTRIC CO.

COMMUNICATIONS SYSTEMS,
MICROWAVE
COMMUNICATIONS SYSTEMS,
MULTIPLEX
MICROWAVE SYSTEMS, STL

LENZ ELECTRIC MFG. COMPANY

CABLE, SHIELDED, AUDIO
CABLE, TELEPHONE
WIRE, INSULATED, HIGH VOLTAGE
WIRE, INSULATED, HOOKUP
WIRE, SHIELDED

LEWIS AND KAUFMAN LTD.

VACUUM TUBES, BALLAST
VACUUM TUBES, CAMERA, VIDICON
VACUUM TUBES, CATHODE RAY,
TV, MONOCHROME
VACUUM TUBES, RECEIVING
VACUUM TUBES, TRANSMITTING

LIBERTY TOWER MFG. CO

ANCHORS, GUY
MAINTENANCE SERVICES, AM
MAINTENANCE SERVICES, FM
MAINTENANCE SERVICES,
MICROWAVE
MAINTENANCE SERVICES,
STEEPLEJACK
MOUNTS, ANTENNA, FIXED
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

LIGHTING & ELECTRONICS

LIGHTING, TV, COMPONENTS
LIGHTING, TV, CONTROLS
LIGHTING, TV, SYSTEMS

LINDSAY SPECIALTY PRODUCTS LTD

AMPLIFIER, BRIDGING
AMPLIFIER, CATV
AMPLIFIER, DISTRIBUTION
AMPLIFIER, TV, BOOSTER
ANTENNAS, CATV
ANTENNAS, FM
ANTENNAS, MOBILE
ANTENNAS, TV
ANTENNAS, TV,
MASTER-COMMUNITY

LIPPS, INC.

HEADS, DISC RECORDING
HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC

LITTELFUSE

CIRCUIT BREAKERS
FUSES
HOLDERS, FUSE

LITTLE JOE ENTERPRISES

ANCHORS, GUY
CABINETS, WOOD
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, CABINETS
AND HARDWARE
CONSOLE, AUDIO, AM
DUMMY LOAD
MAINTENANCE SERVICES, AM
MAINTENANCE SERVICES, FM
MAINTENANCE SERVICES,
STEEPLEJACK

REVERBERATION DEVICES

TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM

LITTEN EDUCATIONAL TELEVISION

ANTENNAS, MICROWAVE
ANTENNAS, 2500 MHZ
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
TRANSLATOR SYSTEMS
TV SYSTEMS, CLOSED CIRCUIT

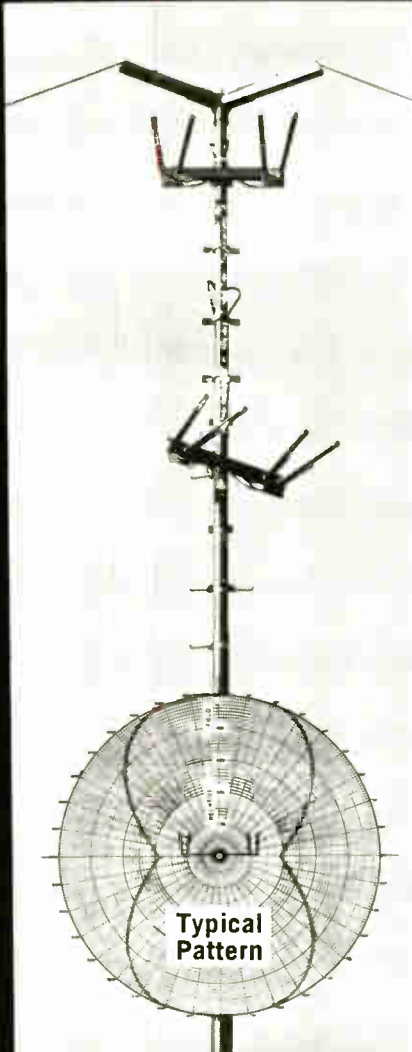
for TOP PERFORMANCE in FM ANTENNAS

DUAL POLARIZED



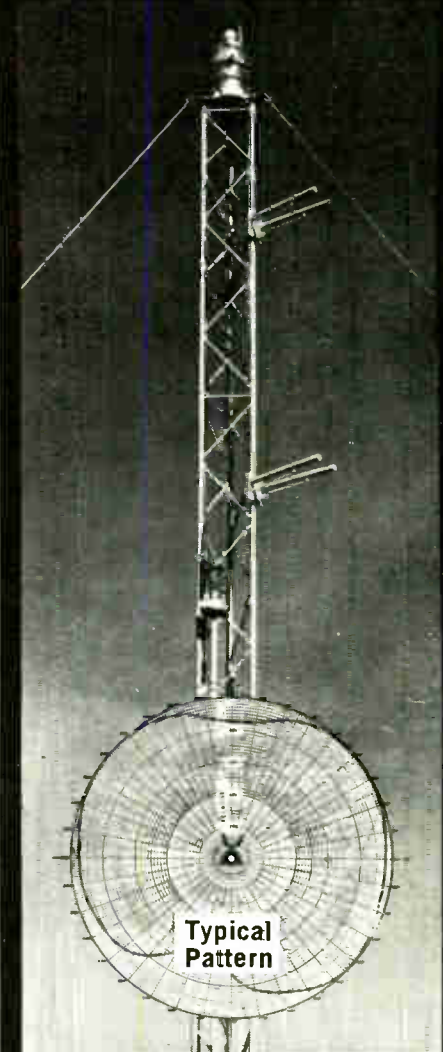
DESCRIPTION
Any combination of elements
Any power split from 50-50 to 30-70
Can be mounted, interlace,
stacked or back to back
Mounting hardware furnished for
your tower.

DIRECTIONALIZED



DESCRIPTION
Phased directional (shown)
Parasitic Directional
Can be made for pole or tower
mount.
Complete filing information
furnished along with
certified pattern

HORIZONTAL



DESCRIPTION
Basic Jampro design with
in phase signal over full
modulation swing by use of
power divider feed system.
Input power up to 50 kw
Complete with
all hardware

J A M P R O

- TV Antennas
- Coax Switches
- Notch Diplexers
- FM Antennas
- Harmonic Filters
- ETV Antennas

**ANTENNA
COMPANY**
6939 POWER INN ROAD

COMPANY
SACRAMENTO CALIFORNIA

PHONE
AREA CODE 916
422-1177

LOW POWER BROADCAST EQUIP CO

CARRIER-CURRENT EQUIPMENT
TRANSMITTERS, AM, LOW POWER

MACARTA INC

AUTOMATION EQUIPMENT
CARTRIDGES, MAGNETIC TAPE
RECORDERS, MAGNETIC TAPE,
AUDIO
TAPE, MAGNETIC RECORDING,
AUDIO

THE MACHLETT LABORATORIES

VACUUM TUBES, TRANSMITTING

MACKENZIE LABORATORIES

AUTOMATION EQUIPMENT
CARTRIDGES, MAGNETIC TAPE
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO, CARTRIDGE
TAPE DECKS, MAGNETIC

MAGNA-TECH CORPORATION

HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
RECORDERS, MAGNETIC TAPE,
AUDIO
TAPE DECKS, MAGNETIC
TAPE DUPLICATORS

MAGNECOR

AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
LOGGING
REELS, TAPE
TAPE DECKS, MAGNETIC
TAPE DUPLICATORS

MAGNETIC MEDIA CORPORATION

CARTRIDGES, MAGNETIC TAPE
TAPE, MAGNETIC RECORDING,
AUDIO
TAPE, MAGNETIC RECORDING,
COMPUTER
TAPE, MAGNETIC RECORDING,
VIDEO

MAGNE-TRONICS, INC.

BACKGROUND MUSIC SERVICE

MALLORY DISTRIBUTOR PRODUCTS

ALARM, FAULT
ATTENUATORS, AUDIO
CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED,
ELECTROLYTIC
CAPACITORS, FIXED, FILM
CAPACITORS, FIXED, OTHER
CIRCUIT BREAKERS
DIALS, INSTRUMENT
JACKS
KNOBS
PLUGS, PHONE
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, WIREWOUND
RESISTORS, VARIABLE, CARBON
RESISTORS, VARIABLE,
WIREWOUND
RHEOSTATS
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
POWER
SWITCHES, LEVER
SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, ROTARY
TESTERS, BATTERY
TIMERS, ELECTRIC

MARANTZ COMPANY

AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
CABINETS, WOOD
PREAMPLIFIERS, AUDIO
RECEIVERS, FM
RECEIVERS, MULTIPLEX
TURNTABLES, PHONOGRAPH

MARATHON PRODUCTS CORP.

CARTRIDGES, MAGNETIC TAPE
CARTRIDGES, TAPE,
RECORDING SERVICE

MARCONI DIVISION

AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, STABILIZING
AMPLIFIER, TV, VIDEO
ANTENNAS, TV
CAMERAS, TV, COLOR
CAMERAS, TV, MONOCHROME
DISPLAY EQUIPMENT, TV
EMANCERS, TV IMAGE
EXCITERS, FM
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL,
TV SYNCHRONIZING
INDUSTRIAL TV
MODULATORS, TV
MONITORS, VIDEO
MONITORS, WAVEFORM
PROJECTORS, FILM
RECEIVERS, HF
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, AM, 50 KW

TRANSMITTERS, AM, OVER 50 KW
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 5 KW
TRANSMITTERS, TV, 1 KW
TRANSMITTERS, TV, 5 KW
TRANSMITTERS, TV, 10 KW
TRANSMITTERS, TV, 25 KW
TV SYSTEMS, CLOSED CIRCUIT

MARCONI INSTRUMENTS

ANALYZERS, DISTORTION
ANALYZERS, HARMONIC
ATTENUATORS, RF
BRIDGES
CALORIMETERS
GENERATORS, FM, STEREO
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, RF
METERS, POWER
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
OSCILLATORS, FM
OSCILLATORS, OTHER
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, HF

MARTI ELECTRONICS

AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
ANTENNAS, FM
ANTENNAS, MOBILE
BASE STATIONS
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COMMUNICATIONS SYSTEMS,
MICROWAVE
EXCITERS, FM
GENERATORS, FM, SUBCARRIER
MICROWAVE SYSTEMS, STL
MOBILE EQUIPMENT
NARROW-BAND FM EQUIPMENT
PREAMPLIFIERS, AUDIO
RECEIVERS, FM
RECEIVERS, SCA
REMOTE CONTROL SYSTEMS
STL EQUIPMENT
TRANSMITTERS, FM, 10 WATTS
TRANSMITTERS, FM, 100 WATTS

MARYLAND TELECOMMUNICATIONS

CAMERAS, TV, MONOCHROME
CONSOLE, AUDIO, TV
CONSOLE, VIDEO, STUDIO
DISPLAY EQUIPMENT, TV
GENERATORS, SIGNAL,
TV SYNCHRONIZING
INDUSTRIAL TV
MONITORS, VIDEO
TV SYSTEMS, CLOSED CIRCUIT

MASTER TOWER CO

REFLECTORS, PASSIVE
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

J. G. MCALISTER

LAMPS, PANEL
LIGHTING, TV, COMPONENTS
LIGHTING, TV, SYSTEMS

THE MCINTIRE COMPANY

PRESSURIZATION EQUIPMENT,
TRANSMISSION LINE

MCMARTIN INDUSTRIES

ADAPTERS, FM STEREO
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, DISTRIBUTION
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, PEAK LIMITING
AMPLIFIER, RF, POWER
ANTENNAS, FM
BACKGROUND MUSIC SERVICE
CABINETS, METAL
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRE
COMMUNICATIONS SYSTEMS,
MULTIPLEX
HARDWARE, RACK
METERS, DB AND VU
METERS, FIELD STRENGTH
METERS, FREQUENCY
METERS - SEE SPECIFIC TYPES
MICROPHONES, DYNAMIC
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, SCA
MONITORS, FM SYSTEMS, STEREO
MONITORS, FREQUENCY
PREAMPLIFIERS, AUDIO
RECEIVERS, FM
RECEIVERS, MULTIPLEX
RECEIVERS, SCA
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
SPEAKERS
STL EQUIPMENT

MELCOR ELECTRONICS

AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING

AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
AMPLIFIER, DC
AMPLIFIER, DISTRIBUTION
EQUALIZERS, AUDIO EMPHASIS
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, STEREO
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO

MEMOREX CORPORATION

TAPE, MAGNETIC RECORDING,
COMPUTER
TAPE, MAGNETIC RECORDING,
VIDEO

METROPOLITAN ELECTRIC MFG. CO.

CABINETS, METAL
LIGHTING, TV, COMPONENTS
LIGHTING, TV, CONTROLS
LIGHTING, TV, SYSTEMS
SWITCHES, KNIFE

METROTECH INCORPORATED

RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
LOGGING

MICOM, INC.

METERS, FLUTTER & WOW

MICROFLECT CO., INC.

REFLECTORS, PASSIVE
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

MICROLAB/EXR

ADAPTERS, TEST
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
CAVITIES, MICROWAVE
COMMUNICATIONS SYSTEMS,
MICROWAVE
COUPLERS
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
DIPLEXERS
DIVIDERS, POWER
DUMMY LOAD
FILTERS, RF
HOLDERS, CRYSTAL
METERS, FREQUENCY
METERS, FREQUENCY CALIBRATING
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
MICROWAVE SYSTEMS, OTHER
MIXERS - ALSO SEE CONSOLES
MONITORS, FREQUENCY
MONITORS, PHASE
OSCILLATORS, AF AND RF,
SEE GENERATORS
SEMICONDUCTOR DIODES
SLOTTED SECTIONS
SWITCHES, COAXIAL
SWITCHES, WAVEGUIDE
TRANSFORMERS, RF
WAVEGUIDE AND
ASSOCIATED COMPONENTS

MICRO-LINK SYSTEMS

ANTENNAS, MICROWAVE
CAVITIES, MICROWAVE
CHOKES, WAVEGUIDE
COMMUNICATIONS SYSTEMS,
MICROWAVE
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
DISPLAY EQUIPMENT, TV
JOINTS, ROTARY, COAXIAL
JOINTS, ROTARY, WAVEGUIDE
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
MICROWAVE SYSTEMS, OTHER
SLOTTED SECTIONS
STL EQUIPMENT
TV SYSTEMS, CLOSED CIRCUIT
WAVEGUIDE AND
ASSOCIATED COMPONENTS

MICROMEGA

AMPLIFIER, CATV
AMPLIFIER, RF,
GENERAL PURPOSE

MICRO RECORD CORP.

PROCESSORS, FILM, B-W
PROCESSORS, FILM, COLOR

MICROWAVE ASSOCIATES, INC.

ADAPTERS, CONNECTOR
AMPLIFIER, PULSE
AMPLIFIER, RF, PEAK LIMITING
AMPLIFIER, RF, POWER
AMPLIFIER, TV, BOOSTER
ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, MICROWAVE
ATTENUATORS, RF

CAVITIES, MICROWAVE
CHOKES, WAVEGUIDE
COMMUNICATIONS SYSTEMS,
MICROWAVE
CONNECTORS, RF
CONVERTERS
COUPLERS
DELAY LINES
DETECTORS, MICROWAVE
DIPLEXERS
DIVIDERS, FREQUENCY
FILTERS, RF
GENERATORS, SIGNAL, RF
HOLDERS, CRYSTAL
INTEGRATED CIRCUITS,
MICROWAVE
JOINTS, ROTARY, WAVEGUIDE
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, OTHER
MOBILE EQUIPMENT
PREAMPLIFIERS, AUDIO
RACKS, MOUNTING
SEMICONDUCTOR DIODES
SWITCHES, PHASE, MICROWAVE
SWITCHES, COAXIAL
SWITCHES, WAVEGUIDE
TRANSMISSION LINES
VACUUM TUBES, RECEIVING
VACUUM TUBES, TRANSMITTING
WAVEGUIDE AND
ASSOCIATED COMPONENTS

MID AMERICA ELECTRONICS CORP

AMPLIFIER, AF,
GENERAL PURPOSE
AUTOMATION EQUIPMENT
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, VIDEO, STUDIO
SOUND SYSTEMS, THEATER

MILES REPRODUCER CO

AMPLIFIER, DC
AMPLIFIER, RF, POWER
CARTRIDGES, MAGNETIC TAPE
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRE
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
COMMUNICATIONS SYSTEMS,
LAND MOBILE
EQUALIZERS, AUDIO EMPHASIS
MICROPHONES, DYNAMIC
MICROPHONES, WIRELESS
PREAMPLIFIERS, AUDIO
RECEIVERS, FM
RECORDERS, DISC, MAGNETIC
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
LOGGING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSMITTER KITS
TRANSMITTERS, FM,
UP TO 1 WATT

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INDUCTANCES, FIXED
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TRANSFORMERS, RF

D. B. MILLIKEN COMPANY

CAMERAS, FILM, CINE
CAMERAS, OSCILLOSCOPE

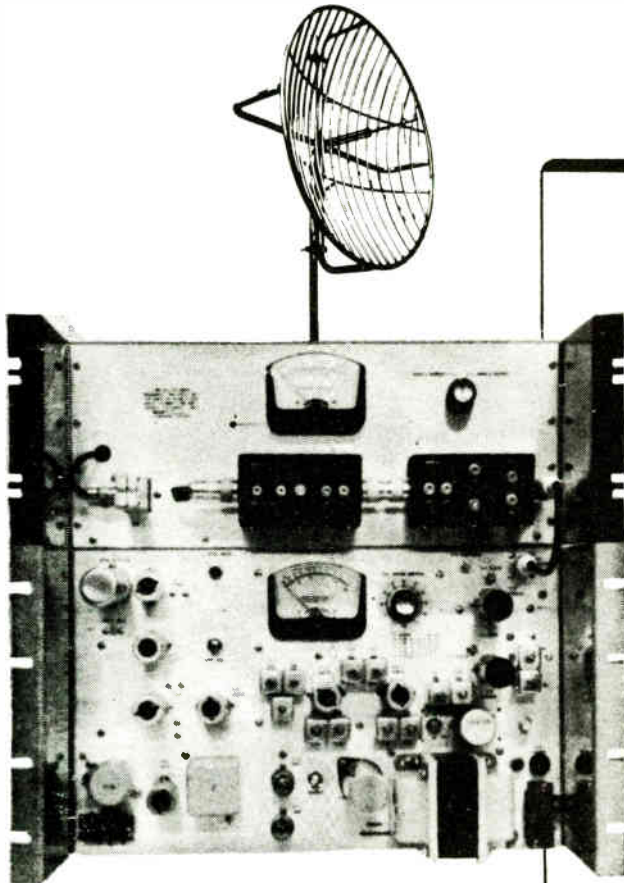
MINNEAPOLIS MAGNETICS

HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
TAPE, MAGNETIC RECORDING,
TEST

MINNESOTA MINING & MFG. CO.

ALARM, SIGNAL
BACKGROUND MUSIC SERVICE
CABINETS, STORAGE, FILM
CABINETS, STORAGE,
MAGNETIC TAPE
CAMERAS, FILM, CINE
CAMERAS, FILM, STILL
CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED, MICA
CARTRIDGES, MAGNETIC TAPE
COMPUTER EQUIPMENT
CONVERTERS
COPYING EQUIPMENT
CRYSTALS, PIEZOELECTRIC
OECALOMANIAS
DROPOUT COMPENSATOR,
VIDEOTAPE
EDITORS, FILM
FILM, PHOTOGRAPHIC
FRAMES, MOUNTING
HARDWARE, TUBING, PLASTIC
HEADS, RECORDING, MAGNETIC
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
MOUNTS, VIBRATION AND SHOCK
NAMEPLATES
PAPER, CHART AND GRAPH
RECORDERS, FILM, LIGHT
RECORDERS, FILM, MAGNETIC
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
LOGGING
RECORDERS, MAGNETIC TAPE,
VIDEO
REELS, TAPE
SLICERS, MAGNETIC TAPE
AND FILM

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STUDIO-TRANSMITTER LINK
& INTER CITY RELAY 950 MHz

Marti STL and RPU equipment is specifically designed, engineered, and manufactured to provide two basic advantages for you, the Broadcaster First, the equipment is unique because it reduces your monthly line charges while increasing the revenue derived from greater flexibility in your remote programming. Secondly, it provides program quality and reliability at least equal to, and usually better than, its land counterpart.

The wide and varied uses of this STL and RPU equipment, adds up to one big advantage at the end of your fiscal year—**MORE NET PROFIT!** Write us for more profitable information concerning this equipment.

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STL's & RPU's

*We
Perfect
them..!*



RADIO REMOTE PICK-UP
26-150-450 MHz

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PERFECTED THESE
ACCESSORIES . . .**



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- Telemetry Systems
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- RPU & STL Antennas
- Automatic Relay Systems
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- Turntable & Microphone Preamps

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TAPE, MAGNETIC RECORDING,
AUDIO
TAPE, MAGNETIC RECORDING,
AUDIO, CARTRIDGE
TAPE, MAGNETIC RECORDING,
COMPUTER
TAPE, MAGNETIC RECORDING,
TEST
TAPE, MAGNETIC RECORDING,
VIDEO
TAPE, RECORDING, GRAPHIC
TOOLS, CRIMPERS

MIRATEL ELECTRONICS, INC.
DISPLAY EQUIPMENT, TV
INDUSTRIAL TV
MONITORS, VIDEO
TV SYSTEMS, CLOSED CIRCUIT

MOLE-RICHARDSON CO.
LAMPS, ARC
LAMPS, GLOW
LAMPS, PANEL
LAMPS, PROJECTION
LIGHTING, TV, COMPONENTS
LIGHTING, TV, CONTROLS
LIGHTING, TV, SYSTEMS
LIGHTNING ARRESTERS
MICROPHONE STANDS & BOOMS
RELAYS, TIME DELAY

MOSELEY ASSOCIATES INC.
ALARM, FAULT
AMPLIFIER, DC
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COMMUNICATIONS SYSTEMS,
MICROWAVE
COMMUNICATIONS SYSTEMS,
MULTIPLY
EXCITERS, FM
GENERATORS, FM, STEREO
GENERATORS, FM, SUBCARRIER
MICROWAVE SYSTEMS, STL
MOBILE EQUIPMENT
NARROW-BAND FM EQUIPMENT
REMOTE CONTROL SYSTEMS
STL EQUIPMENT
TRANSMITTERS, FM, 10 WATTS

DONALD P. MOSSMAN, INC.
SWITCHES, ILLUMINATED
SWITCHES, INTERLOCK
SWITCHES, LEVER
SWITCHES, MULTICONTACT
SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, TELEPHONE TYPE

MOTOROLA COMMUNICATIONS
ANTENNAS, MICROWAVE
ANTENNAS, MOBILE
BACKGROUND MUSIC SERVICE
CAMERA, MOUNTING EQUIPMENT
CAMERA, REMOTE
CONTROL EQUIPMENT
CAMERAS, TV, MONOCHROME
VOLTMETERS, AC
VOLTMETERS, DC
WATTMETERS

MOTOROLA SEMICONDUCTOR PRODUCTS, INC.
INTEGRATED CIRCUITS
MICROWAVE COMPONENTS
RECTIFIERS - ALSO
SEE SEMICONDUCTORS
SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMICONDUCTOR RECTIFIERS,
POWER
SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR
SEMICONDUCTORS, THYRISTORS
SEMICONDUCTORS,
TRANSISTORS, AF
SEMICONDUCTORS,
TRANSISTORS, FE
SEMICONDUCTORS, TRANSISTORS,
GENERAL
SEMICONDUCTORS,
TRANSISTORS, RF

MULTRONICS, INC.
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, POWER
ANTENNAS, LF
ANTENNAS, MF
COILS, ANTENNA LOADING
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COUPLERS
INDUCTANCES, FIXED
INDUCTANCES, VARIABLE
MONITORS, PHASE
NETWORKS, PHASING
SWITCHING MATRIXES

MVR CORPORATION
RECORDERS, DISC, MAGNETIC
RECORDERS, MAGNETIC TAPE,
VIDEO
TV SYSTEMS, CLOSED CIRCUIT

MARDA MICROWAVE
ANTENNAS, MICROWAVE
ANTENNAS, 2500 MHZ

ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
ATTENUATORS, VIDEO
CALORIMETERS
CAVITIES, MICROWAVE
CHOKES, WAVEGUIDE
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
COUPLERS
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
DIVIDERS, POWER
FILTERS, RF
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL, RF
METERS, FREQUENCY
METERS, FREQUENCY CALIBRATING
METERS, POWER
METERS, STANDING WAVE
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, OTHER
NETWORKS, MATCHING, RF
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, OTHER
RECEIVERS, MF
SHIFTERS, PHASE, MICROWAVE
SLOTTED SECTIONS
SWITCHES, COAXIAL
TRANSMISSION LINES
TRANSMISSION TEST SETS

NESCO INSTRUMENTS DIVISION
RECORDERS, PAPER,
LOGGING AND GRAPHIC

NEUMADE PRODUCTS
CABINETS, METAL
CABINETS, STORAGE, DISC
CABINETS, STORAGE, FILM
CABINETS, STORAGE,
MAGNETIC TAPE
CLEANERS, OTHER
EDITORS, FILM
FILM, PHOTOGRAPHIC
RACKS, MOUNTING
REELS, FILM
REWINDERS, FILM
RHEOSTATS
SOLVENTS AND CLEANERS
SPLICERS, MAGNETIC TAPE
AND FILM

NORTHEAST ELECTRONICS
ANALYZERS, DISTORTION
ANALYZERS, NOISE
GENERATORS, SIGNAL, AF
METERS, DB AND VU

NORTH AMERICAN PHILIPS COMPANY
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, REVERBERATION
AMPLIFIER, DISTRIBUTION
CAMERAS, FILM, CINE
CAMERAS, FILM, STILL
CAMERAS, TV, COLOR
CAMERAS, TV, MONOCHROME
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
EARPHONES, HEADPHONES
EDUCATION FACILITIES,
PUBLISHERS
EDUCATION FACILITIES, EQPT
ENCLOSURES, SPEAKER
MICROPHONE HARDWARE
MICROPHONE STANDS & BOOMS
MICROPHONES, CONDENSER
MICROPHONES, DYNAMIC
MIXERS - ALSO SEE CONSOLES
PREAMPLIFIERS, AUDIO
RECEIVERS, AM
RECEIVERS, FM
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
VIDEO
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
SPEAKER COMPONENTS
SPEAKERS
VACUUM TUBES, CAMERA,
PLUMBICON R
VACUUM TUBES, CAMERA, VIDICON

NORTRONICS COMPANY, INC.
HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
TAPE, MAGNETIC RECORDING,
TEST

THE NOVA CORPORATION
CAPACITORS, FIXED, FILM
CAPACITORS, FIXED, METALLIZED
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
LAND MOBILE
MOBILE EQUIPMENT

OKA MANUFACTURING CO.
CHOPPERS
SWITCHES, ILLUMINATED
SWITCHES, INTERLOCK
SWITCHES, LEVER
SWITCHES, MECHANICALLY
ACTUATED
SWITCHES, MULTICONTACT
SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, ROTARY
SWITCHES, SLIDE
SWITCHES, SNAP

OKAKRON INDUSTRIES
SPEAKERS

OHMITE MANUFACTURING COMPANY
ATTENUATORS,
IMPEDANCE MATCHING
BOXES, DECADE, RESISTOR
CAPACITORS, FIXED,
ELECTROLYTIC
KNOBS
POTENTIOMETERS, CARBON
POTENTIOMETERS, WIREWOUND
RELAYS, GENERAL PURPOSE
RELAYS, LATCHING
RELAYS, LIGHT-INDICATING
RELAYS, OVERLOAD
RELAYS, POWER
RELAYS, TIME DELAY
RESISTORS, FIXED, CARBON
RESISTORS, FIXED,
NONINDUCTIVE
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, WIREWOUND
RESISTORS, FIXED, OTHER
RESISTORS, VARIABLE, CARBON
RESISTORS, VARIABLE,
WIREWOUND
RHEOSTATS
SEMICONDUCTOR DIODES
SWITCHES, MECHANICALLY
ACTUATED
SWITCHES, ROTARY
TRANSFORMERS, VARIABLE

GUNNAR A. OLSEN CORP.
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

OMAN DIVISION
CHARGERS, BATTERY
GENERATORS, POWER,
GASOLINE ENGINE

ORBIT RADIO
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, REVERBERATION
AMPLIFIER, AF, STEREO
AMPLIFIER, BRIDGING
AMPLIFIER, DISTRIBUTION
AUTOMATION EQUIPMENT
BACKGROUND MUSIC SERVICE
BROADCAST PROGRAMMING SERVICE
CARRIER-CURRENT EQUIPMENT
CARTRIDGES, TAPE,
RECORDING SERVICE
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, AUDIO, AM
EDITORS, AUDIO TAPE
FILTERS, AUDIO
MAINTENANCE SERVICES, AM
MAINTENANCE SERVICES, FM
MIXERS - ALSO SEE CONSOLES
PREAMPLIFIERS, AUDIO
REMOTE CONTROL SYSTEMS
REVERBERATION DEVICES
SOUND SYSTEMS, PORTABLE
TAPE, MAGNETIC RECORDING,
TEST

PACIFIC TOWER CO.
ANTENNAS, TV
LIGHTING, TV, COMPONENTS
LIGHTING, TV, SYSTEMS
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
WIRE, BARE, COPPER

PAINTON INCORPORATED

ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, RF
ATTENUATORS, VIDEO
CHOKES, WAVEGUIDE
KNOBS
POTENTIOMETERS, WIREWOUND
RESISTORS, FIXED, CARBON
RESISTORS, FIXED, PRECISION
RESISTORS, FIXED, WIREWOUND
RESISTORS, FIXED, OTHER
RESISTORS, VARIABLE,
WIREWOUND
SWITCHES, MULTICONTACT
SWITCHES, PUSHBUTTON,
NONILLUMINATED
SWITCHES, ROTARY
SWITCHES, TOGGLE

PALL TRINITY MICRO CORP.
DEHUMIDIFIERS
DESICCANTS
FILTERS, OTHER
WIRING AND CABLING SERVICES

PERMOFLUX CORPORATION
AMPLIFIER, AF,
GENERAL PURPOSE

AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, STEREO
COILS, CHOKE, AF
EARPHONES, HEADPHONES
MICROPHONES, DYNAMIC
PREAMPLIFIERS, AUDIO
SPEAKER COMPONENTS
SPEAKERS
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, AUTO
TRANSFORMERS, COUPLING
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER

HELPS DODGE
CABLE, ARMORED
CABLE, ASSEMBLIES
CABLE, CATV, HARDWARE
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
CABLE, DIRECT-BURIAL
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
DELAY LINES
DIPLXERS
JACK PANEL ASSEMBLIES
JACKS
MICROWAVE COMPONENTS
PLUGS, COAXIAL
SLOTTED SECTIONS
TERMINALS, HIGH VOLTAGE
TRANSMISSION LINES
TRANSMISSION TEST SETS
ASSOCIATED COMPONENTS
WAVEGUIDE AND

PIEZO CRYSTAL CO.
CRYSTALS, PIEZOELECTRIC
FILTERS, OTHER

H. K. PORTER INC.
HARDWARE, TOOLS
TOOLS, CRIMPERS
TOOLS, CUTTERS
TOOLS, HAND

POWER-OPTICS INCORPORATED
CAMERA, MOUNTING EQUIPMENT
CAMERA, REMOTE
CONTROL EQUIPMENT
INDUSTRIAL TV
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM

POWER SOURCES
INVERTERS, DC TO AC,
SOLID STATE
POWER SUPPLIES, AC
POWER SUPPLIES, DC

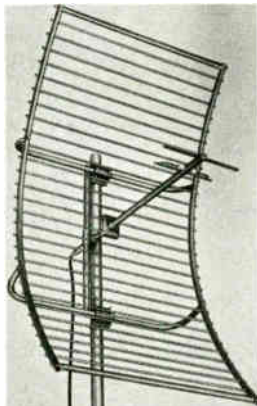
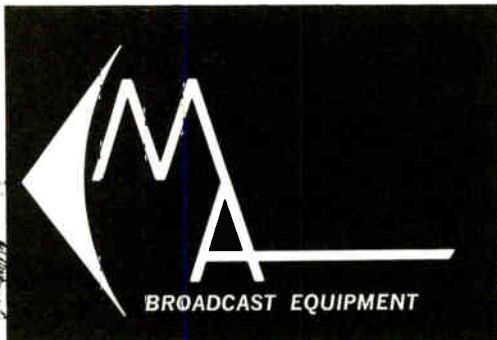
PRECISION LABORATORIES
CAMERAS, FILM, CINE
CAMERAS, FILM, STILL
EDITORS, FILM
EDITORS, VIDEO TAPE
HEADS, RECORDING, MAGNETIC
PROJECTORS, FILM
PROJECTORS, SLIDE
SPLICERS, MAGNETIC TAPE
AND FILM

PRECISION PIEZO SERVICE
CRYSTALS, PIEZOELECTRIC

PRODELIN, INCORPORATED
ADAPTERS, CONNECTOR
ANTENNAS, MICROWAVE
ANTENNAS, MOBILE
ANTENNAS, 2500 MHZ
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
CABLE, CATV, HARDWARE
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
COILS, ANTENNA LOADING
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COMMUNICATIONS SYSTEMS,
MICROWAVE
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
DIPLXERS
DIVIDERS, POWER
DUMMY LOAD
FILTERS, ANTENNA
FILTERS, RF
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
MOUNTS, ANTENNA, FIXED
MOUNTS, ANTENNA, MOBILE
RADOMES
SHIFTERS, PHASE, MICROWAVE
SLOTTED SECTIONS
SWITCHES, COAXIAL

PRO-TEX REEL BAND COMPANY
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PRUZAN COMPANY
CATV, HARDWARE
POLE CLIMBING EQUIPMENT
SAFETY DEVICES, CLIMBING



Scala PR-450 Antenna

AURAL STUDIO-TRANSMITTER LINKS

FOR FM - AM - TV - INTERCITY RELAY

Six years of continuous operation in broadcast service and 150 units in the field have established the Moseley STL as the accepted industry standard.

Model PCL-2B Low distortion, wide frequency response, and exceptionally good transient response. Designed for continuous duty, the PCL-2B is rated at 8 watts maximum output. For FM stereo use DUAL MODEL PCL-2B, a concept pioneered by Moseley Associates, Inc.

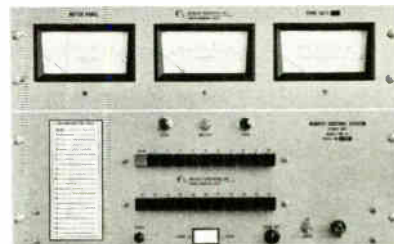
SOLID-STATE REMOTE CONTROL SYSTEMS

RADIO and WIRE

Model PBR-21 All transistorized 21 channel deluxe control system can be operated over single wire line or radio circuit. DC line continuity not required. A complete line of control subcarrier generators and detectors is available to adapt the PBR-21 to STL systems for radio control. All FM radio remote control systems compatible with stereophonic and SCA program operation. (Write for Technical Bulletin 213). PBR-21 Studio Control Unit illustrated at right.

Model WRC-10T Designed to operate over a SINGLE DC wire pair, this 10 channel all solid-state control system is dependable, accurate, and economical. 4" rectangular meter provided for easy readout.

Model SCS-1 Status/Control System Employing plug-in modules, this solid-state 8 channel system can be used as status indicator, fault reporting, or one-way control system. Will operate over single telephone line or narrow band radio channel.



Model PBR-21

FM TRANSMISSION EQUIPMENT

LPE-10 SCG-3 SCG-4T

The Model SCG-4T SCA Subcarrier Generator illustrated is the newest FM product of Moseley Associates. Of all solid-state design, the Model SCG-4T contains a peak reading deviation meter calibrated directly in KHz. Muting circuitry is all electronic (no relays) for maximum reliability.

The Model LPE-10 direct FM 10 watt Exciter is FCC Type Accepted for stereo and SCA service as well as an educational transmitter (LPT-10). It is ideal as replacement exciter when updating old style FM transmitters. Model SCG-3 FM Stereo Generator connects directly into exciter. Wideband input capability of LPE-10 assures maximum transmission linearity of composite stereo waveform from SCG-3.



Model SCG-4T



Model RPL-1T

BROADCAST REMOTE PICKUP SYSTEMS

Model RPL-1 Designed for continuous duty, 30 watt high quality broadcast remote pickup transmitter provides studio sound away from home. Operating in the 148-174 MHz band, the RPL-1 Remote Pickup System has low distortion and wide frequency response, making it an excellent choice for FM stations.

450 MHz Solid-state Remote Pickup System Newly designed, this all solid-state system provides the broadcaster with a modern, high quality remote pickup unit for use on any of the 20 channels in Group N. Only JEDEC-registered silicon semiconductors used.

MOSELEY ASSOCIATES, INC.

135 NOGAL DRIVE, SANTA BARBARA, CALIFORNIA 93105
TELEPHONE 805-967-0424

PULSE TECHNIQUES

EQUALIZERS, AUDIO EMPHASIS

OR K ELECTRONIC PRODUCTS

PREAMPLIFIERS, AUDIO
TURNTABLES, PHONOGRAPH

Q-TV SALES & DISTRIBUTING

DISPLAY EQUIPMENT, TV

JULES RACINE CO., INC.

TIMERS, MANUAL

RADIO AIDS

CALIBRATION SERVICE,
FREQUENCY

RAVEN SCREEN CORPORATION

SCREENS, PROJECTION, FRONT
SCREENS, PROJECTION, REAR

RAYTHEON CO., EQUIPMENT DIV.

AMPLIFIER, CLAMPING
AMPLIFIER, TV, VIDEO
ANTENNAS, MICROWAVE
ANTENNAS, 2500 MHZ
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
MICROWAVE SYSTEMS, OTHER
MOUNTS, ANTENNA, FIXED
MOUNTS, ANTENNA, MOBILE
RACKS, MOUNTING

RBM CONTROLS

RELAYS, GENERAL PURPOSE
RELAYS, LATCHING
RELAYS, PLUG-IN
RELAYS, POWER
RELAYS, TELEPHONE
RELAYS, TIME DELAY

RCA BROADCAST PRODS.

AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, STEREO
AMPLIFIER, BRIDGING
AMPLIFIER, DISTRIBUTION
AMPLIFIER, KEYING
AMPLIFIER, MASKING
AMPLIFIER, PULSE
AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, PEAK LIMITING
AMPLIFIER, RF, POWER
AMPLIFIER, STABILIZING
AMPLIFIER, TV, BOOSTER
AMPLIFIER, TV, VIDEO
AMPLIFIER, VIDEO, SWEEP
ANALYZERS, SIDEBAND
ANTENNAS, AM
ANTENNAS, FM
ANTENNAS, MICROWAVE
ANTENNAS, MOBILE
ANTENNAS, TV
ANTENNAS, 2500 MHZ
ARMS, TONE
ATTENUATORS, FIXED
AUTOMATION EQUIPMENT
BASE STATIONS
BLOWERS AND FANS
CABINETS, METAL
CABINETS, PLASTIC
CABINETS, STORAGE, FILM
CABINETS, STORAGE,
MAGNETIC TAPE
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
CABLE, SHIELDED, AUDIO
CALORIMETERS
CAMERA, MOUNTING EQUIPMENT
CAMERAS, FILM, CINE
CAMERAS, TV, COLOR
CAMERAS, TV, MONOCHROME
CARTRIDGES, MAGNETIC TAPE
CARTRIDGES, PHONO
CLOCKS
COILS, ANTENNA LOADING
COILS, HYBRID
COILS, TELEPHONE
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
COMMUNICATIONS SYSTEMS,
LAND MOBILE
COMMUNICATIONS SYSTEMS,
MICROWAVE
COMMUNICATIONS SYSTEMS,
MULTIPLY
CONNECTORS, AF & MICROPHONE
CONNECTORS, COAXIAL CABLE
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, CABINETS
AND HARDWARE
CONSOLE, VIDEO, STUDIO
CORS, PATCH
COUPLERS
CRYSTALS, PIEZOELECTRIC
DELAY LINES
DEMAGNETIZERS, BULK TAPE
DEMAGNETIZERS, HEAD
DEMODULATORS
DIPLEXERS
DOLLIES, CAMERA
DOLLIES, TEST EQUIPMENT
DROPOUT COMPENSATOR,
VIDEO TAPE

DUMMY LOAD

EARPHONES, HEADPHONES
EDITORS, FILM
EDITORS, VIDEO TAPE
ENCLOSURES, SPEAKER
EQUALIZERS, AUDIO EMPHASIS
EXCITERS, FM
FILTERS, AUDIO
FILTERS, OTHER
FLASHERS, TOWER
GENERATORS, FM, STEREO
GENERATORS, FM, SUBCARRIER
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL,
SPECIAL EFFECT
GENERATORS, SIGNAL,
TV SYNCHRONIZING
HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
INDUSTRIAL TV
JACK PANEL ASSEMBLIES
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
LIGHTING, TV, COMPONENTS
LIGHTING, TV, CONTROLS
LIGHTING, TV, SYSTEMS
METERS, DB AND VU
METERS, FIELD STRENGTH
METERS, FREQUENCY
MICROPHONE HARDWARE
MICROPHONE STANDS & BOOMS
MICROPHONES, DYNAMIC
MICROPHONES, VELOCITY
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
MICROWAVE SYSTEMS, OTHER
MIXERS - ALSO SEE CONSOLES
MOBILE EQUIPMENT
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MONO
MONITORS, FM SYSTEMS, SCA
MONITORS, FM SYSTEMS, STEREO
MONITORS, FREQUENCY
MONITORS, PHASE
MONITORS, VIDEO
MONITORS, WAVEFORM
MOUNTS, ANTENNA, FIXED
MOUNTS, ANTENNA, MOBILE
MULTIPLEXERS
NETWORKS, PHASING
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLOSCOPES
PLUGS, COAXIAL
PLUGS, PHONE
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
PRESSURIZATION EQUIPMENT,
TRANSMISSION LINE
PROCESSORS, FILM, B-W
PROCESSORS, FILM, COLOR
PROJECTORS, FILM
PROJECTORS, SLIDE
RACKS, MOUNTING
RADAR, WEATHER
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
AUDIO, CARTRIDGE
RECORDERS, MAGNETIC TAPE,
VIDEO
REFLECTORS, PASSIVE
REWINDERS, FILM
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
SPEAKER COMPONENTS
SPEAKERS
SPLICERS, MAGNETIC TAPE
AND FILM
STL EQUIPMENT
SWITCHERS
SWITCHING SYSTEMS
TAPE DECKS, MAGNETIC
TAPE, MAGNETIC RECORDING,
AUDIO
TAPE, MAGNETIC RECORDING,
VIDEO
TERMINAL BLOCKS
TERMINAL BOARDS
TERMINAL STRIPS
TERMINALS, BARRIER
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSMISSION LINES
TRANSMISSION TEST SETS
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, AM, 25 KW
TRANSMITTERS, AM, 50 KW
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 5 KW
TRANSMITTERS, FM, 11 KW
TRANSMITTERS, FM, 20 KW
TRANSMITTERS, FM, 40 KW
TRANSMITTERS, TV, 2 KW
TRANSMITTERS, TV, 5 KW
TRANSMITTERS, TV, 6 KW
TRANSMITTERS, TV, 11 KW
TRANSMITTERS, TV, 12 KW
TRANSMITTERS, TV, 25 KW
TRANSMITTERS, TV, 30 KW
TRANSMITTERS, TV, 50 KW
TRANSMITTERS, TV, 150 KW
TURNTABLES, PHONOGRAPH

TV SYSTEMS, CLOSED CIRCUIT
WATTMETERS
WAVEGUIDE AND
ASSOCIATED COMPONENTS
WIRE, BARE, COPPER
WIRE, BARE, COPPER STRAP
WIRE, SHIELDED

RCA ELECTRONIC COMPONENTS

BATTERIES, DRY CELL
CAVITIES, MICROWAVE
COMMUNICATIONS SYSTEMS, CB
GENERATORS, FM, STEREO
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, RF
INTEGRATED CIRCUITS
MICROPHONE HARDWARE
MICROPHONE STANDS & BOOMS
MICROPHONES, CONDENSER
MICROPHONES, DYNAMIC
MICROPHONES, VELOCITY
OHMMETERS
OSCILLOSCOPES
PROBES, OSCILLOSCOPE
PROBES, TEST LEAD
SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMICONDUCTOR RECTIFIERS,
POWER
SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR
SEMICONDUCTORS, THYRISTORS
SEMICONDUCTORS,
TRANSISTORS, AF
SEMICONDUCTORS,
TRANSISTORS, FE
SEMICONDUCTORS, TRANSISTORS,
GENERAL
SEMICONDUCTORS,
TRANSISTORS, RF
TESTERS, VACUUM TUBE
VACUUM TUBES, CAMERA,
IMAGE-ORTHICON
VACUUM TUBES, CAMERA, VIDICON
VACUUM TUBES, CATHODE RAY,
TV, COLOR
VACUUM TUBES, CATHODE RAY,
TV, MONOCHROME
VACUUM TUBES, RECEIVING
VACUUM TUBES, TRANSMITTING
VOLT METERS, AC
VOLT METERS, DC
VOLT METERS, VACUUM TUBE

RCA SERVICE COMPANY

MAINTENANCE SERVICES, AM
MAINTENANCE SERVICES, FM
MAINTENANCE SERVICES,
MICROWAVE
MAINTENANCE SERVICES,
STEEPLEJACK
MAINTENANCE SERVICES, TV

RECORDING EQUIPMENT COMPANY

AMPLIFIER, AF, MONAURAL
FILTERS, AUDIO
FILTERS, RF
PREAMPLIFIERS, AUDIO

REEVES SOUNDCRAFT

CARTRIDGES, MAGNETIC TAPE
RECORDS, BLANK, LACQUER,
FOR RECORDING
REELS, TAPE
TAPE, MAGNETIC RECORDING,
AUDIO
TAPE, MAGNETIC RECORDING,
COMPUTER
TAPE, MAGNETIC RECORDING,
VIDEO

RHG ELECTRONICS LABORATORY

AMPLIFIER, RF,
GENERAL PURPOSE
AMPLIFIER, RF, POWER
COMMUNICATIONS SYSTEMS,
MICROWAVE
COMMUNICATIONS SYSTEMS,
MULTIPLY
EXCITERS, FM
MICROWAVE COMPONENTS
MICROWAVE SYSTEMS, STL
MICROWAVE SYSTEMS, 2500 MHZ
MICROWAVE SYSTEMS, OTHER
RECEIVERS, FM
RECEIVERS, HF
STL EQUIPMENT
TRANSMITTERS, FM, 100 WATTS
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 10 KW

RIKER VIDEO INDUSTRIES

AMPLIFIER, DISTRIBUTION
AMPLIFIER, KEYING
AMPLIFIER, MASKING
AMPLIFIER, PULSE
AMPLIFIER, SENSING
AMPLIFIER, STABILIZING
AMPLIFIER, TV, VIDEO
AUTOMATION EQUIPMENT
BALUNS
CLOCKS
CONSOLE, VIDEO, PORTABLE
CONSOLE, VIDEO, STUDIO
DROPOUT COMPENSATOR,
VIDEO TAPE
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL, PULSE

GENERATORS, SIGNAL,
SPECIAL EFFECT
GENERATORS, SIGNAL,
TV, SYNCHRONIZING
GENERATORS, SIGNAL, VITS
INDUSTRIAL TV
OSCILLATORS, TV
SWITCHERS
SWITCHING SYSTEMS
TRANSMISSION TEST SETS
TV SYSTEMS, CLOSED CIRCUIT

ROANWELL CORPORATION

CAPACITORS, VARIABLE
EARPHONES, HEADPHONES
TELEPHONE EQUIPMENT

ROBINS INDUSTRIES CORP.

ACOUSTIC MATERIALS
ADAPTERS, CONNECTOR
ANTENNAS, FM
CABLE, ASSEMBLIES
CABLE, SHIELDED, AUDIO
CORDS, PATCH
DEMAGNETIZERS, BULK TAPE
DEMAGNETIZERS, HEAD
EDITORS, AUDIO TAPE
HARDWARE, GENERAL
HARDWARE, MOUNTS
HEADS, ERASE, MAGNETIC
HEADS, RECORDING, MAGNETIC
JACKS
LAMP ASSEMBLIES
LOG BOOKS OR SHEETS
METERS, DB AND VU
MICROPHONE HARDWARE
MICROPHONES, DYNAMIC
PLUGS, COAXIAL
PLUGS, PHONE
PROJECTORS, FILM, REAR
REELS, TAPE
SLIDES, CHASSIS
SOLVENTS AND CLEANERS
SPLICERS, MAGNETIC TAPE
AND FILM
STROBE, DISCS
STROBE, LIGHTS
SWITCHES, ILLUMINATED
SWITCHES, SNAP
SWITCHES, TOGGLE
TAPE, MAGNETIC RECORDING,
AUDIO
WIRE, BARE, COPPER
WIRE, INSULATED, HOOKUP
WIRE, SHIELDED

ROHDE & SCHWARZ SALES CO-USA

AMPLIFIER, RF, PEAK LIMITING
AMPLIFIER, VIDEO, SWEEP
ANALYZERS, DISTORTION
ANALYZERS, HARMONIC
ANALYZERS, NOISE
ANALYZERS, SIDEBAND
ANALYZERS, VIDEO
ANTENNAS, MICROWAVE
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, MICROWAVE
ATTENUATORS, RF
ATTENUATORS, VIDEO
BALUNS
BRIDGES
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CONNECTORS, POWER
CONNECTORS, RF
COUPLERS
DELAY LINES
DEMODULATORS
DETECTORS, MICROWAVE
DETECTORS, STANDING WAVE
DIVIDERS, FREQUENCY
DUMMY LOAD
FILTERS, AUDIO
FILTERS, RF
GENERATORS, FM, STEREO
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL, RF
METERS, FIELD STRENGTH
METERS, FREQUENCY
METERS, FREQUENCY CALIBRATING
METERS, PHASE ANGLE
METERS, POWER
METERS, STANDING WAVE
MICROWAVE COMPONENTS
MODULATORS, TV
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, AM
OSCILLATORS, FM
OSCILLATORS, TV
OSCILLATORS, OTHER
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, HF
RECORDERS, PAPER,
LOGGING AND GRAPHIC
SLOTTED SECTIONS
TESTERS, CAPACITOR
TESTERS, INSULATION
TESTERS, SEMICONDUCTOR
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, FM
TRANSMITTERS, TV
VOLT METERS, AC
VOLT METERS, DC
VOLT METERS, VACUUM TUBE
WATTMETERS

ROHN MANUFACTURING COMPANY
 CATV, HEAD-END EQUIPMENT
 HEAD-END EQUIPMENT,
 SEE CATV HEAD-END EQUIPMENT
 LIGHTS, TOWER, OBSTRUCTION
 MOUNTS, ANTENNA, FIXED
 REFLECTORS, PASSIVE
 TOWERS, ANTENNA,
 CATV, HEAD-END
 TOWERS, ANTENNA, RECEIVING
 TOWERS, ANTENNA,
 TRANSMITTING, AM
 TOWERS, ANTENNA,
 TRANSMITTING, FM
 TOWERS, ANTENNA,
 TRANSMITTING, TV

ROME CABLE DIV. OF ALCOA
 CABLE, ASSEMBLIES
 CABLE, COAXIAL, FLEXIBLE
 CABLE, DIRECT-BURIAL
 CABLE, SHIELDED, AUDIO
 CABLE, TELEPHONE

ROTRON MANUFACTURING COMPANY
 BLOWERS AND FANS

ROUND HILL ASSOCIATES

AMPLIFIER, AF, AGC
 AMPLIFIER, AF, COMPRESSING
 AMPLIFIER, AF,
 GENERAL PURPOSE
 AMPLIFIER, AF, MONAURAL
 AMPLIFIER, AF,
 PEAK LIMITING, AM
 AMPLIFIER, AF,
 PEAK LIMITING, FM
 AMPLIFIER, AF, REMOTE
 AMPLIFIER, AF, REVERBERATION
 AMPLIFIER, AF, STEREO
 AMPLIFIER, BRIDGING
 AMPLIFIER, CATV
 AMPLIFIER, DISTRIBUTION
 COMMUNICATIONS SYSTEMS,
 INTERCOM, WIRELESS

RUSSCO ELECTRONICS MFG.
 AMPLIFIER, AF, MONAURAL
 AMPLIFIER, AF, STEREO
 PREAMPLIFIERS, AUDIO
 TURNTABLES, PHONOGRAPH

F. B. RYAN MFG. CO.
 PLOWS, CABLE LAYING

HOWARD W. SAMS & CO. INC.
 EDUCATION FACILITIES,
 PUBLISHERS
 EDUCATION FACILITIES, SCHOOLS

SARKIS-TARZIAN

AMPLIFIER, DISTRIBUTION
 AMPLIFIER, PULSE
 AMPLIFIER, TV, VIDEO
 ATTENUATORS, VIDEO
 AUTOMATION EQUIPMENT
 CAMERAS, TV, COLOR
 CAMERAS, TV, MONOCHROME
 CAPACITORS, VARIABLE
 COMMUNICATIONS SYSTEMS,
 MICROWAVE
 COMPUTER EQUIPMENT
 CONSOLE, AUDIO, TV
 CONSOLE, AUDIO, AM
 CONSOLE, VIDEO, PORTABLE
 CONSOLE, VIDEO, STUDIO
 CORDS, PATCH
 DISPLAY EQUIPMENT, TV
 ENHANCERS, TV IMAGE
 GENERATORS, SIGNAL,
 TV SYNCHRONIZING
 HARDWARE, RACK
 JACK PANEL ASSEMBLIES
 MAINTENANCE SERVICES, TV
 MICROWAVE SYSTEMS, STL
 MONITORS, VIDEO
 RECTIFIERS - ALSO SEE SEMI-
 CONDUCTORS & VACUUM TUBES
 RECTIFIERS, SELENIUM
 SEMICONDUCTOR DIODES
 SEMICONDUCTOR RECTIFIERS,
 GENERAL
 SEMICONDUCTOR RECTIFIERS,
 HIGH VOLTAGE
 SEMICONDUCTOR RECTIFIERS,
 POWER
 SEMICONDUCTOR RECTIFIERS,
 SILICON CONTROLLED - SCR
 STL EQUIPMENT
 SWITCHING MATRIXES
 SWITCHING SYSTEMS
 TAPE, MAGNETIC RECORDING,
 AUDIO
 TRANSMITTERS, TV, 1 KW
 TV SYSTEMS, CLOSED CIRCUIT

SAXTON PRODUCTS INC.

CABLE, ASSEMBLIES
 CABLE, COAXIAL, FLEXIBLE
 CABLE, COAXIAL, RIGID
 CABLE, DIRECT-BURIAL
 CABLE, SHIELDED, AUDIO
 CABLE, TELEPHONE
 WIRE, BARE, COPPER
 WIRE, BARE, COPPER STRAP
 WIRE, BARE, STEEL
 WIRE, INSULATED, HIGH VOLTAGE
 WIRE, INSULATED, HOOKUP
 WIRE, SHIELDED
 WIRING AND CABLING SERVICES

SCALA RADIO CORPORATION

ANTENNAS, AM
 ANTENNAS, CATV
 ANTENNAS, FM
 ANTENNAS, TV

ANTENNAS, TV,
 MASTER-COMMUNITY
 BALUNS

SCHAFFER ELECTRONICS

AMPLIFIER, SENSING
 AUTOMATION EQUIPMENT
 BACKGROUND MUSIC SERVICE
 BROADCAST PROGRAMMING SERVICE
 CABINETS, METAL
 PREAMPLIFIERS, AUDIO
 RACKS, MOUNTING
 RECORDERS, MAGNETIC TAPE,
 AUDIO
 RECORDERS, MAGNETIC TAPE,
 LOGGING
 REMOTE CONTROL SYSTEMS
 SWITCHERS
 SWITCHING MATRIXES
 TAPE DECKS, MAGNETIC

ALBERT SCHULTZ, INC.

BACKGROUND MUSIC SERVICE
 BROADCAST PROGRAMMING SERVICE

SCIENTIFIC-ATLANTA

ANTENNAS, CATV
 ANTENNAS, MICROWAVE
 ANTENNAS, TV,
 MASTER-COMMUNITY
 ANTENNAS, 2500 MHZ
 ATTENUATORS, MICROWAVE
 ATTENUATORS, RF
 ATTENUATORS, VIDEO
 CABINETS, METAL
 CONSOLE, CABINETS
 AND HARDWARE
 DIVIDERS, POWER
 JOINTS, ROTARY, COAXIAL
 MICROWAVE COMPONENTS
 MOUNTS, ANTENNA, FIXED
 OSCILLATORS, AF AND RF,
 SEE GENERATORS
 PAPER, CHART AND GRAPH
 READERS
 RECEIVERS, HF
 RECORDERS, PAPER,
 LOGGING AND GRAPHIC
 WAVEGUIDE AND
 ASSOCIATED COMPONENTS

H. H. SCOTT, INC.

AMPLIFIER, AF,
 GENERAL PURPOSE
 AMPLIFIER, AF, MONAURAL
 AMPLIFIER, AF, REMOTE
 AMPLIFIER, AF, STEREO
 AMPLIFIER, BRIDGING
 ANALYZERS, NOISE
 GENERATORS, FM, STEREO
 GENERATORS, FM, SUBCARRIER
 GENERATORS, SIGNAL,
 SPECIAL EFFECT, NOISE
 METERS, DB AND VU, WIDE RANGE
 PREAMPLIFIERS, AUDIO
 RECEIVERS, FM
 RECEIVERS, MULTIPLEX

SCULLY RECORDING INSTRUMENTS

AMPLIFIER, AF,
 GENERAL PURPOSE
 AMPLIFIER, AF, MONAURAL
 AMPLIFIER, AF, STEREO
 AUTOMATION EQUIPMENT
 EDITORS, AUDIO TAPE
 HEADS, DISC RECORDING
 HEADS, ERASE, MAGNETIC
 HEADS, RECORDING, MAGNETIC
 LATHE, DISC RECORDING
 PREAMPLIFIERS, AUDIO
 RECORDERS, MAGNETIC TAPE,
 AUDIO

SELA ELECTRONICS CO.

TIMERS, ELECTRIC

SETCHELL CARLSON, INC.

AMPLIFIER, AF, STEREO
 CABINETS, WOOD
 INDUSTRIAL TV
 MONITORS, VIDEO
 RECEIVERS, AM
 RECEIVERS, FM
 RECEIVERS, TV, COLOR
 RECEIVERS, TV, MONOCHROME
 SPEAKERS
 TV SYSTEMS, CLOSED CIRCUIT

SHURE BROTHERS

ARMS, TONE
 CARTRIDGES, MAGNETIC TAPE
 CARTRIDGES, PHONO
 MICROPHONE HARDWARE
 MICROPHONE STANOS & BOOMS
 MICROPHONES, DYNAMIC
 MIXERS - ALSO SEE CONSOLES
 PREAMPLIFIERS, AUDIO
 STYLI, PLAYBACK

SIGMA INDUSTRIES

BLOWERS AND FANS
 BLOWERS, CATV, HARDWARE
 CATV EQUIPMENT - ALSO SEE
 OTHER CATEGORIES
 CATV, CABLE TERMINALS
 CONNECTORS, COAXIAL CABLE
 HARDWARE, TUBING, PLASTIC
 PRESSURIZATION EQUIPMENT,
 TRANSMISSION LINE
 TV SYSTEMS, CLOSED CIRCUIT

SIGMA INSTRUMENTS INC.

RELAYS, GENERAL PURPOSE
 RELAYS, LATCHING
 RELAYS, OVERLOAD
 RELAYS, PHOTOELECTRIC

RELAYS, PLUG-IN
 RELAYS, POWER
 RELAYS, SEQUENCING
 RELAYS, TELEPHONE

THE SINGER CO. - METRICS DIV.

AMMETERS, AC
 AMMETERS, AC, THERMOCOUPLE
 AMMETERS, DC
 AMMETERS, RF
 ANALYZERS, DISTORTION
 ANALYZERS, HARMONIC
 ANALYZERS, INTERMODULATION
 ANALYZERS, NOISE
 ANALYZERS, SIDEBAND
 ANALYZERS, VIDEO
 ATTENUATORS, FIXED
 ATTENUATORS, MICROWAVE
 ATTENUATORS, RF
 CAMERAS, OSCILLOSCOPE
 CONVERTERS
 DIVIDERS, VOLTAGE
 DOLLIES, TEST EQUIPMENT
 GENERATORS, SIGNAL, AF
 GENERATORS, SIGNAL, RF
 METERS, FIELD STRENGTH
 METERS, FREQUENCY
 METERS, PHASE ANGLE
 METERS, POWER
 METERS - SEE SPECIFIC TYPES
 MONITORS, FREQUENCY
 MONITORS, VIDEO
 MONITORS, WAVEFORM
 POWER SUPPLIES, AC
 SHUNTS, METER
 TURNTABLES, PHONOGRAPH
 VOLTMETERS, AC
 VOLTMETERS, DC
 WATTMETERS

SINGER PRODUCTS CO.

ACOUSTIC MATERIALS
 ADAPTERS, FM STEREO
 ALARM, FAULT
 ALARM, SIGNAL
 AMPLIFIER, AF, AGC
 AMPLIFIER, AF, COMPRESSING
 AMPLIFIER, AF,
 PEAK LIMITING, AM
 AMPLIFIER, AF,
 PEAK LIMITING, FM
 AMPLIFIER, AF, REMOTE
 AMPLIFIER, AF, REVERBERATION
 AMPLIFIER, BRIDGING
 AMPLIFIER, RF,
 GENERAL PURPOSE
 AMPLIFIER, RF, PEAK LIMITING
 AMPLIFIER, RF, POWER
 ANTENNAS, AM
 ANTENNAS, FM
 ANTENNAS, MICROWAVE
 ANTENNAS, MOBILE
 ANTENNAS, TV
 ARMS, TONE
 ATTENUATORS, RF
 AUTOMATION EQUIPMENT
 BACKGROUND MUSIC SERVICE
 BALUNS
 BASE STATIONS
 BATTERIES, LEAD ACID
 BATTERIES, NICKEL CADMIUM
 BLOWERS AND FANS
 CABINETS, STORAGE,
 MAGNETIC TAPE
 CABLE, ASSEMBLIES
 CABLE, COAXIAL, FLEXIBLE
 CABLE, COAXIAL, RIGID
 CABLE, SHIELDED, AUDIO
 CAPACITORS, FIXED, CERAMIC
 CAPACITORS, FIXED,
 ELECTROLYTIC
 CAPACITORS, FIXED, FILM
 CAPACITORS, FIXED, MICA
 CAPACITORS, FIXED, OIL-FILLED
 CAPACITORS, FIXED, PAPER
 CAPACITORS, VARIABLE
 CARTRIDGES, MAGNETIC TAPE
 CARTRIDGES, PHONO
 CHARGERS, BATTERY
 CIRCUITS, PRINTED
 COILS, DEFLECTION
 AND FOCUSING
 COILS, TELEPHONE
 COMMUNICATIONS SYSTEMS, CB
 COMMUNICATIONS SYSTEMS,
 LAND MOBILE
 COMMUNICATIONS SYSTEMS,
 MULTIPLEX
 COMMUNICATIONS SYSTEMS,
 TELEPRINTER
 CONNECTORS, COAXIAL CABLE
 CONSOLE, AUDIO, AM
 CONSOLE, AUDIO, FM
 CONSOLE, AUDIO, PORTABLE
 CONSOLE, AUDIO, RECORDING
 CONSOLE, AUDIO, TV
 CONSOLE, CABINETS
 AND HARDWARE
 CORDS, DIAL
 CORDS, PATCH
 CORDS, SET
 CORES, TRANSFORMER AND COIL
 COUPLERS
 DELAY DEVICES, AF
 DEMAGNETIZERS, BULK TAPE
 EARPHONES, HEADPHONES
 EXCITERS, FM
 FACSIMILE EQUIPMENT
 FUSES
 GENERATORS, FM, STEREO
 GENERATORS, FM, SUBCARRIER
 HARDWARE, TOOLS
 HEADS, DISC RECORDING
 HEADS, ERASE, MAGNETIC
 HEADS, RECORDING, MAGNETIC
 HOLDERS, FUSE
 INVERTERS, DC TO AC,
 SOLID STATE
 JACK PANEL ASSEMBLIES
 JACKS
 KNOBS
 LAMPS, PANEL
 LATHE, DISC RECORDING
 MICROPHONE STANDS & BOOMS
 MICROPHONES, CONDENSER
 MICROPHONES, DYNAMIC
 MICROPHONES, VELOCITY
 MICROPHONES, WIRELESS
 MICROWAVE SYSTEMS, STL
 MIXERS - ALSO SEE CONSOLES
 MOBILE EQUIPMENT
 MONITORS, AM SYSTEMS
 MONITORS, FM SYSTEMS, MONO
 MONITORS, FM SYSTEMS, SCA
 MONITORS, FM SYSTEMS, STEREO
 MONITORS, FREQUENCY
 NARROW-BAND FM EQUIPMENT
 NETWORKS, PHASING
 OVENS, CRYSTAL
 PLUGS, COAXIAL
 PLUGS, PHONE
 POTENTIOMETERS, CARBON
 POTENTIOMETERS, WIREWOUND
 PRINTERS, TELETYPE
 PROJECTORS, FILM
 PROJECTORS, SLIDE
 RECEIVERS, AM
 RECEIVERS, FM
 RECEIVERS, HF
 RECEIVERS, MULTIPLEX
 RECEIVERS, SCA
 RECORDS, BLANK, ACETATE,
 FOR RECORDING
 RECORDS, BLANK, LACQUER,
 FOR RECORDING
 RECTIFIERS, SELENIUM
 REMOTE CONTROL SYSTEMS
 RESISTORS, FIXED, CARBON
 RESISTORS, FIXED, WIREWOUND
 RESISTORS, VARIABLE, CARBON
 REVERBERATION DEVICES
 SCRAMBLERS, SPEECH
 SEMICONDUCTOR DIODES
 SEMICONDUCTOR RECTIFIERS,
 GENERAL
 SEMICONDUCTOR RECTIFIERS,
 HIGH VOLTAGE
 SEMICONDUCTOR RECTIFIERS,
 POWER
 SEMICONDUCTORS, AF
 SEMICONDUCTORS, TRANSISTORS,
 GENERAL
 SOLDER
 SOUND SYSTEMS, PORTABLE
 SPEAKER COMPONENTS
 SPEAKERS
 STL EQUIPMENT
 STYLI, CUTTING
 SWITCHES, COAXIAL
 SWITCHES, ROTARY
 SWITCHES, SLIDE
 SWITCHES, SNAP
 SWITCHES, TOGGLE
 TAPE DECKS, MAGNETIC
 TAPE DUPLICATOR
 TAPE, MAGNETIC RECORDING,
 AUDIO
 TERMINAL BLOCKS
 TERMINAL BOARDS
 TERMINAL STRIPS
 TERMINALS, LUG
 TERMINALS, SOLDER
 TERMINALS, SOLDERLESS
 TESTERS, BATTERY
 TESTERS, INSULATION
 TOOLS, HAND
 TOOLS, PLIERS
 TOOLS, SCREWDRIVERS
 TOOLS, SOLDERING IRONS, GUN
 TOOLS, SOLDERING IRONS,
 INDUSTRIAL
 TOWERS, ANTENNA, RECEIVING
 TOWERS, ANTENNA,
 TRANSMITTING, AM
 TOWERS, ANTENNA,
 TRANSMITTING, FM
 TOWERS, ANTENNA,
 TRANSMITTING, TV
 TRANSFORMERS, AUTO
 TRANSFORMERS, GENERAL
 TRANSMITTER KITS
 TRANSMITTERS, AM, 250 WATT
 TRANSMITTERS, AM, 1 KW
 TRANSMITTERS, AM, 5 KW
 TRANSMITTERS, AM, 15 KW
 TRANSMITTERS, AM, 25 KW
 TRANSMITTERS, AM, 50 KW
 TRANSMITTERS, AM, OVER 50 KW
 TRANSMITTERS, FM, 1D WATTS
 TRANSMITTERS, FM, 100 WATTS
 TRANSMITTERS, FM, 250 WATTS
 TRANSMITTERS, FM, 1 KW
 TRANSMITTERS, FM, 5 KW
 TRANSMITTERS, FM, 20 KW
 TURNTABLES, PHONOGRAPH
 VACUUM TUBES, CATHODE RAY,
 TV, COLOR
 VACUUM TUBES, CATHODE RAY,
 TV, MONOCHROME
 VACUUM TUBES, RECEIVING
 WIRE, INSULATED, HIGH VOLTAGE
 WIRE, SHIELDED
 YOKES, DEFLECTION

SITCO ANTENNA COMPANY

ANTENNAS, CATV
 ANTENNAS, FM
 ANTENNAS, TV,
 MASTER-COMMUNITY
 BALUNS

SOLA ELECTRIC
BALLASTS, LAMP
POWER SUPPLIES, AC
POWER SUPPLIES, DC
POWER SUPPLIES, PRECISION
REGULATORS, CURRENT
REGULATORS, VOLTAGE
TRANSFORMERS, AUTO
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER

SOLITRON DEVICES

CAPACITORS, VARIABLE
CIRCUITS, PRINTED
HEAT SINKS
MICROWAVE COMPONENTS
RECTIFIERS - ALSO SEE SEMI-
CONDUCTORS & VACUUM TUBES
SEMI-CONDUCTOR DIODES
SEMI-CONDUCTOR RECTIFIERS,
GENERAL
SEMI-CONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMI-CONDUCTOR RECTIFIERS,
POWER
SEMI-CONDUCTORS,
TRANSISTORS, AF
SEMI-CONDUCTORS, TRANSISTORS,
GENERAL
SEMI-CONDUCTORS,
TRANSISTORS, RF
TESTERS, SEMI-CONDUCTOR

SONY CORPORATION OF AMERICA

AMPLIFIER, AF, STEREO
ARMS, TONE
CAMERAS, TV, MONOCHROME
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SPEAKER COMPONENTS
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GENERAL
SEMICONDUCTORS,
TRANSISTORS, RF

THE TEXWIDE COMPANY

CLEANERS, LENS
CLEANERS, OTHER

THE THOMAS & BETTS CO.

CLAMPS, CABLE
CLAMPS, COMPONENT
CLAMPS, GROUND
CLAMPS, TUBE
CONNECTORS, COAXIAL CABLE
CONNECTORS, POWER
CONNECTORS, RF
HARDWARE, TOOLS
TERMINAL BLOCKS
TERMINAL BOARDS
TERMINALS, BARRIER
TERMINALS, LUG
TERMINALS, SOLDERLESS
TOOLS, CRIMPERS
TOOLS, CUTTERS
TOOLS, HAND

THOMSON ELECTRIC CO.

ANTENNAS, FM
ANTENNAS, TV
CAMERAS, TV, MONOCHROME
DOLBY, CAMERA
JACKS
TRANSMITTERS, FM
TRANSMITTERS, TV
TV SYSTEMS, CLOSED CIRCUIT

THOR ELECTRONICS

SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMICONDUCTOR RECTIFIERS,
POWER
SEMICONDUCTOR RECTIFIERS,
SILICON CONTROLLED - SCR
SEMICONDUCTORS, THYRISTORS
SEMICONDUCTORS,
TRANSISTORS, AF
SEMICONDUCTORS,
TRANSISTORS, FE
SEMICONDUCTORS, TRANSISTORS,
GENERAL
SEMICONDUCTORS,
TRANSISTORS, RF
VACUUM TUBES, BALLAST
VACUUM TUBES, CAMERA,
IMAGE-ORTHICON
VACUUM TUBES, CAMERA, VIDICON

VACUUM TUBES, CATHODE RAY,
TV, COLOR

VACUUM TUBES, CATHODE RAY,
TV, MONOCHROME

VACUUM TUBES, RECEIVING

VACUUM TUBES, TRANSMITTING

TIMES WIRE AND CABLE

CABLE, ASSEMBLIES
CABLE, CATV, HARDWARE
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
CABLE, DIRECT-BURIAL
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF

TOPAZ, INCORPORATED

INVERTERS, DC TO AC,
SOLID STATE

TOWNSEND ASSOCIATES

ATTENUATORS, RF
CHOPPERS - VERTICAL INTERVAL
CIRCUITS, PRINTED
COMMUNICATIONS SYSTEMS,
MULTIPLEX
EXCITERS, FM
MAINTENANCE SERVICES, TV
MODULATORS, TV
NARROW-BAND FM EQUIPMENT
POWER SUPPLIES, DC,
HIGH VOLTAGE
HIGH VOLTAGE
TRANSLATOR SYSTEMS
TRANSMITTERS, TV, 3 KW
TRANSMITTERS, TV, 15 KW
TRANSMITTERS, TV, 30 KW
TRANSMITTERS, TV, 55 KW
TRANSMITTERS, TV, 100 KW

TRAO CORP.

CAMERA, MOUNTING EQUIPMENT
CAMERAS, FILM, CINE
CAMERAS, OSCILLOSCOPE
GENERATORS, SIGNAL, PULSE
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
PROJECTORS, FILM

TRANSCO PRODUCTS, INTL.

RECORDS, BLANK, ACETATE,
FOR RECORDING
RECORDS, BLANK, LACQUER,
FOR RECORDING
STYLUS, CUTTING
STYLUS, PLAYBACK

TREPAC CORPORATION OF AMERICA

ALARM, FAULT
ALARM, SIGNAL
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, REMOTE
AUTOMATION EQUIPMENT
CIRCUITS, PRINTED
COMMUNICATIONS SYSTEMS,
TELEPRINTER
DELAY DEVICES, AF
FILTERS, AUDIO
GENERATORS, SIGNAL, AF
INVERTERS, DC TO AC,
SOLID STATE
JACK PANEL ASSEMBLIES
MONITORS, AM SYSTEMS
OSCILLATORS, AF AND RF,
SEE GENERATORS
POWER SUPPLIES, AC
POWER SUPPLIES, DC
PREAMPLIFIERS, AUDIO
PRINTERS, TELETYPE
RELAYS, PLUG IN
RELAYS, SEQUENCING
RELAYS, TIME DELAY
REMOTE CONTROL SYSTEMS
SCRAMBLERS, SPEECH
STL EQUIPMENT
SWITCHERS
SWITCHING SYSTEMS

TRIPLETT ELECTRICAL INSTR. CO.

AMMETERS, AC
AMMETERS, AC, THERMOCOUPLE
AMMETERS, DC
AMMETERS, RF
GENERATORS, SIGNAL, RF
METERS, DB AND VU
OHMMETERS
SHUNTS, METER
TESTERS, SEMICONDUCTOR
TESTERS, VACUUM TUBE
VOLTMETERS, AC
VOLTMETERS, DC
VOLTMETERS, VACUUM TUBE
WATTMETERS

TROMPETER ELECTRONICS

ADAPTERS, CONNECTOR
ATTENUATORS, AUDIO
ATTENUATORS, FIXED
ATTENUATORS,
IMPEDANCE MATCHING
ATTENUATORS, RF
ATTENUATORS, VIDEO
AUTOMATION EQUIPMENT
CABLE, ASSEMBLIES
CONNECTORS, AF & MICROPHONE
CONNECTORS, ANTENNA
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
CORDS, PATCH
JACK PANEL ASSEMBLIES
JACKS
PLUGS, COAXIAL
RELAYS, COAXIAL

RELAYS, SEQUENCING

RELAYS, STEPPING

SWITCHES, COAXIAL

SWITCHES, CROSSBAR

SWITCHING MATRIXES

SWITCHING SYSTEMS

TRUSONIC

ENCLOSURES, SPEAKER
MICROPHONE HARDWARE
MICROPHONES, CONDENSER
MICROPHONES, WIRELESS
SOUND SYSTEMS, OUTDOOR
SOUND SYSTEMS, PORTABLE
SOUND SYSTEMS, THEATER
SPEAKER COMPONENTS
SPEAKERS

TRW ELECTRONICS

CAPACITORS, FIXED, AIR
CAPACITORS, FIXED, CERAMIC
CAPACITORS, FIXED, FILM
CAPACITORS, FIXED, METALLIZED
CAPACITORS, VARIABLE
CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
COILS, ANTENNA LOADING
COILS, CHOKER, AF
COILS, CHOKER, RF
COILS, DEFLECTION
AND FOCUSING
CRYSTALS, PIEZOELECTRIC
FILTERS, AUDIO
FILTERS, OTHER
OVENS, CRYSTAL
POWER SUPPLIES, PRECISION
SEMICONDUCTOR DIODES
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMICONDUCTORS, TRANSISTORS,
GENERAL
SEMICONDUCTORS,
TRANSISTORS, RF
SPEAKERS
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, AUTO
TRANSFORMERS, COUPLING
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER
TRANSFORMERS, TRANSISTOR
TRANSFORMERS, VARIABLE

TRYLON INCORPORATED

ANTENNAS, AM
BALUNS
MAINTENANCE SERVICES,
STEEPLEJACK
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
TRANSMISSION LINES, OPEN WIRE

T T ELECTRONICS

FILTERS, AUDIO
FILTERS, RF
FILTERS, OTHER

TURNER MICROPHONE CO.

MICROPHONE HARDWARE
MICROPHONE STANDS & BODOMS
MICROPHONES, DYNAMIC

TV CABLE SUPPLY CO.

DIVIDERS, FREQUENCY
METERS, FIELD STRENGTH
METERS, FREQUENCY CALIBRATING
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, GENERAL

ULTRA AUDIO PRODUCTS

COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, AUDIO, AM

UNGAR ELECTRIC TOOLS

TOOLS, SOLDERING IRONS,
INDUSTRIAL

UNITED RADIO SUPPLY, INC.

CONSOLE, AUDIO, AM
CONSOLE, AUDIO, RECORDING

UNITED STATES PLASTIC ROPE

CORDS, DIAL
INSULATORS, ANTENNA

UNITED STATES TOWERS

TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

UNITED TRANSFORMER COMPANY

BOXES, DECADE, INDUCTOR
COILS, CHOKER, AF

COILS, HYBRID
COILS, TELEPHONE
DELAY DEVICES, AF
DELAY LINES
FILTERS, AUDIO
FILTERS, OTHER
INDUCTANCES, FIXED
INDUCTANCES, VARIABLE
TRANSFORMERS, AUDIO,
ISOLATION
TRANSFORMERS, AUDIO, MATCHING
TRANSFORMERS, AUDIO,
POWER OUTPUT
TRANSFORMERS, AUTO
TRANSFORMERS, COUPLING
TRANSFORMERS, FILAMENT
TRANSFORMERS, GENERAL
TRANSFORMERS, PLATE
TRANSFORMERS, POWER
TRANSFORMERS, TRANSISTOR
TRANSFORMERS, VARIABLE

UP-RIGHT SCAFFOLDS

CAMERA, MOUNTING EQUIPMENT
LIGHTNING ARRESTERS
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV

UPSON BROS.

HARDWARE, TOOLS
KITS
TOOLS, HAND
TOOLS, SCREWDRIVERS

UTICA CORP.

ANTENNAS, MOBILE
BASE STATIONS
COMMUNICATIONS SYSTEMS, CB
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRELESS
COMMUNICATIONS SYSTEMS,
LAND MOBILE
MOBILE EQUIPMENT
MONITORS, FM SYSTEMS, MOND
MOUNTS, ANTENNA, MOBILE
MOUNTS, INSTRUMENT
NARROW-BAND FM EQUIPMENT
PREAMPLIFIERS, AUDIO
RECEIVERS, AM
RECEIVERS, FM
TRANSFORMERS, TV, 60 WATTS

UTILITY PRODUCTS CO

CATV, CABLE TERMINALS
TERMINAL BOARDS

UTILITY TOWER CO

CATV EQUIPMENT - ALSO SEE
OTHER CATEGORIES
INSULATORS, TOWER BASE
MAINTENANCE SERVICES,
STEEPLEJACK
PREFABRICATED BUILDINGS
REFLECTORS, PASSIVE
TOWERS, ANTENNA,
CATV, HEAD-END
TOWERS, ANTENNA, RECEIVING
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
WIRE, BARE, COPPER
WIRE, BARE, COPPER STRAP

VALUE INCORPORATED

DRAFTING EQUIPMENT

VEGA ELECTRONICS CORP

AMPLIFIER, AF, COMPRESSING
MICROPHONES, CONDENSER
MICROPHONES, WIRELESS
RECEIVERS, FM

VENT-BAK INCORPORATED

CABINETS, METAL
CONSOLE, CABINETS
AND HARDWARE
HARDWARE, CHASSIS
LAMP ASSEMBLIES
PANELS, INSTRUMENT,
FOR RACK MOUNTING
REELS, CABLE, AUTOMATIC
SLIDES, CHASSIS

VIDEON CORPORATION

AMPLIFIER, DC
AMPLIFIER, DISTRIBUTION
AMPLIFIER, TV, VIDEO
ANALYZERS, VIDEO
DIVIDERS, FREQUENCY
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DT BAR
GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL,
SPECIAL EFFECT
GENERATORS, SIGNAL,
SQUARE WAVE
GENERATORS, SIGNAL,
TV SYNCHRONIZING
GENERATORS, SIGNAL, VITS
MULTIPLEXERS
OSCILLATORS, TV
POWER SUPPLIES, DC
POWER SUPPLIES, PRECISION
PREAMPLIFIERS, VIDEO

SWITCHERS
SWITCHING SYSTEMS

VIKING OF MINNEAPOLIS
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF, STEREO
CARTRIDGES, MAGNETIC TAPE
RECORDERS, MAGNETIC TAPE,
RECORDERS, MAGNETIC TAPE,
AUDIO
AUDIO, CARTRIDGE
RECORDERS, MAGNETIC TAPE,
TAPE DECKS, MAGNETIC
TAPE DUPLICATORS

VISHAY RESISTOR PRODUCTS
RESISTORS, FIXED,
NONINDUCTIVE
RESISTORS, FIXED, PRECISION

VISUAL ELECTRONICS CORP
AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
AMPLIFIER, AF, REMOTE
AMPLIFIER, AF, REVERBERATION
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, STABILIZING
AMPLIFIER, TV, VIDEO
AMPLIFIER, VIDEO, SWEEP
ANTENNAS, AM
ANTENNAS, FM
ANTENNAS, MICROWAVE
ANTENNAS, TV
AUTOMATION EQUIPMENT
CABLE, COAXIAL, FLEXIBLE
CABLE, COAXIAL, RIGID
CAMERA, MOUNTING EQUIPMENT
CAMERA, REMOTE
CONTROL EQUIPMENT
CAMERAS, FILM, CINE
CAMERAS, TV, COLOR
CAMERAS, TV, MONOCHROME
CARTRIDGES, MAGNETIC TAPE
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
CONNECTORS, COAXIAL CABLE
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, VIDEO, STUDIO
DIPLEXERS
DOLLIES, CAMERA
DROPOUT COMPENSATOR,
VIDEO TAPE
EDITORS, VIDEO TAPE
EXCITERS, FM
GENERATORS, SIGNAL, COLOR BAR
GENERATORS, SIGNAL, DOT BAR
GENERATORS, SIGNAL, MARKER
GENERATORS, SIGNAL, PULSE
GENERATORS, SIGNAL,
SPECIAL EFFECT
GENERATORS, SIGNAL,
SQUARE WAVE
GENERATORS, SIGNAL,
TV SYNCHRONIZING
GENERATORS, SIGNAL, VITS
JACK PANEL ASSEMBLIES
JACKS
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
LIGHTING, TV, COMPONENTS
LIGHTING, TV, CONTROLS
LIGHTING, TV, SYSTEMS
MICROPHONE HARDWARE
MICROPHONE STANDS & BOOMS
MICROPHONES, CONDENSER
MICROPHONES, DYNAMIC
MICROPHONES, VELOCITY

MICROPHONES, WIRELESS
MICROWAVE SYSTEMS, STL
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MOND
MONITORS, FM SYSTEMS, SCA
MONITORS, FM SYSTEMS, STEREO
MONITORS, FREQUENCY
MONITORS, PHASE
MONITORS, VIDEO
MONITORS, WAVEFORM
PROJECTORS, FILM
PROJECTORS, SLIDE
RECORDERS, MAGNETIC TAPE,
AUDIO
RECORDERS, MAGNETIC TAPE,
VIDEO
RELAYS, COAXIAL
REMOTE CONTROL SYSTEMS
REVERBERATION DEVICES
SCREENS, PROJECTION, FRONT
SCREENS, PROJECTION, REAR
STL EQUIPMENT
SWITCHERS
SWITCHING SYSTEMS
TAPE DECKS, MAGNETIC
TAPE DUPLICATORS
TOWERS, ANTENNA,
TRANSMITTING, AM
TOWERS, ANTENNA,
TRANSMITTING, FM
TOWERS, ANTENNA,
TRANSMITTING, TV
TRANSMISSION LINES
TRANSMISSION TEST SETS
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, AM, 25 KW
TRANSMITTERS, AM, 50 KW
TRANSMITTERS, FM, 3 KW
TRANSMITTERS, FM, 5 KW
TRANSMITTERS, FM, 10 KW
TRANSMITTERS, FM, 20 KW
TRANSMITTERS, TV, 15 KW
TRANSMITTERS, TV, 30 KW
TRANSMITTERS, TV, 55 KW
TURNTABLES, PHONOGRAPH
VACUUM TUBES, CAMERA,
IMAGE-ORTHICON
VACUUM TUBES, CAMERA,
PLUMBICON R
VACUUM TUBES, CAMERA, VIDICON
VESTIGIAL SIDEBAND FILTERS

VITAL INDUSTRIES
AMPLIFIER, DISTRIBUTION
AMPLIFIER, STABILIZING
AMPLIFIER, TV, VIDEO
SWITCHING SYSTEMS

VITRO ELECTRONICS
CIRCUITS, PRINTED
CONNECTORS, COAXIAL CABLE
CONNECTORS, RF
CORDS, PATCH
HARDWARE, PANEL
HARDWARE, RACK
INTEGRATED CIRCUITS
JACK PANEL ASSEMBLIES
JACKS
METERS, FIELD STRENGTH
MONITORS, AM SYSTEMS
MONITORS, FM SYSTEMS, MONO
MONITORS, PHASE
RECEIVERS, AM
RECEIVERS, FM
RECEIVERS, HF
RECEIVERS, MULTIPLEX
TERMINAL STRIPS
WIRING AND CABLING SERVICES

VUE-TRONICS INC.
RECORDERS, VIDEO,
FILM, KINESCOPE

WABER ELECTRONICS INC.
CABINETS, METAL
CONNECTORS, POWER
CORDS, SET

COUPLERS
DOLLIES, CAMERA
DOLLIES, TEST EQUIPMENT
DUCTS, WIRING
KITS
RACKS, MOUNTING
SWITCHES, MECHANICALLY
ACTUATED
VOLTMETERS, AC

WALLACH & ASSOCIATES
CABINETS, STORAGE, DISC
CABINETS, STORAGE, FILM
CABINETS, STORAGE,
MAGNETIC TAPE
CABINETS, STORAGE, SLIDE

WARD ELECTRONIC INDUSTRIES
AMPLIFIER, AF, AGC
AMPLIFIER, AF, COMPRESSING
AMPLIFIER, AF,
GENERAL PURPOSE
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF, REMOTE
AMPLIFIER, BRIDGING
AMPLIFIER, DISTRIBUTION
AMPLIFIER, PULSE
AMPLIFIER, TV, VIDEO
ANALYZERS, SIDEBAND
AUTOMATION EQUIPMENT
COMMUNICATIONS SYSTEMS,
INTERCOM, WIRED
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, PORTABLE
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
CONSOLE, VIDEO, PORTABLE
CONSOLE, VIDEO, STUDIO
DEMODULATORS
NETWORKS, PHASING
PREAMPLIFIERS, AUDIO
PREAMPLIFIERS, VIDEO
SWITCHERS
SWITCHING MATRIXES
SWITCHING SYSTEMS

WATERS MANUFACTURING
ANTENNAS, MOBILE
ATTENUATORS, RF
DUMMY LOAD
FILTERS, OTHER
METERS, FREQUENCY
MOUNTS, ANTENNA, MOBILE
POTENTIOMETERS, WIREWOUND
RESISTORS, VARIABLE,
WIREWOUND
SWITCHES, COAXIAL
WATTMETERS

WAVEFORMS, INCORPORATED
ANALYZERS, DISTORTION
GENERATORS, SIGNAL, AF
GENERATORS, SIGNAL,
SQUARE WAVE
METERS, FREQUENCY
OSCILLATORS, AF AND RF,
SEE GENERATORS
OSCILLATORS, OTHER
TRANSMISSION TEST SETS
VOLTMETERS, AC
VOLTMETERS, VACUUM TUBE

WECKESSER COMPANY
CABLE, ASSEMBLIES
CLAMPS, CABLE

WESTINGHOUSE ELECTRIC CORP.
VACUUM TUBES, CAMERA,
IMAGE-ORTHICON
VACUUM TUBES, CAMERA, VIDICON
VACUUM TUBES, CATHODE RAY,
TV, COLOR
VACUUM TUBES, CATHODE RAY,
TV, MONOCHROME
VACUUM TUBES, RECEIVING
VACUUM TUBES, TRANSMITTING

WIDE RESPONSE
REELS, TAPE
TAPE, MAGNETIC RECORDING,
AUDIO

WILKINSON ELECTRONICS, INC
AMPLIFIER, AF, AGC
AMPLIFIER, AF, MONAURAL
AMPLIFIER, AF,
PEAK LIMITING, AM
AMPLIFIER, AF,
PEAK LIMITING, FM
CONSOLE, AUDIO, AM
CONSOLE, AUDIO, FM
CONSOLE, AUDIO, RECORDING
CONSOLE, AUDIO, TV
EXCITERS, FM
GENERATORS, FM, STEREO
GENERATORS, FM, SUBCARRIER
GENERATORS, SIGNAL, RF
METERS, FIELD STRENGTH
MONITORS, AM SYSTEMS
RECTIFIERS - ALSO SEE
SEMICONDUCTORS
SEMICONDUCTOR RECTIFIERS,
GENERAL
SEMICONDUCTOR RECTIFIERS,
HIGH VOLTAGE
SEMICONDUCTOR RECTIFIERS,
POWER
TRANSMITTERS, AM, 1 KW
TRANSMITTERS, AM, 5 KW
TRANSMITTERS, AM, 10 KW
TRANSMITTERS, FM, 1 KW
TRANSMITTERS, FM, 5 KW
TRANSMITTERS, FM, 7.5 KW
TRANSMITTERS, FM, 10 KW
TRANSMITTERS, FM, 20 KW

W. WILSON CORPORATION
HARDWARE, MOUNTS
LAMPS, PROJECTION
MOBILE EQUIPMENT
SCREENS, PROJECTION, REAR

XCELITE INCORPORATED
HARDWARE, TOOLS
TOOLS, CUTTERS
TOOLS, HAND
TOOLS, PLIERS
TOOLS, SCREWDRIVERS
TOOLS, WRENCHES

YOKOGAWA ELECTRIC WORKS
AMMETERS, AC
AMMETERS, AC, THERMOCOUPLE
AMMETERS, DC
AMMETERS, RF
BRIDGES
METERS, DB AND VU
METERS, DB AND VU, WIDE RANGE
METERS, FIELD STRENGTH
METERS, FREQUENCY
METERS, LIGHT
METERS, PHASE ANGLE
METERS, POWER
OHMMETERS
PANELS, INSTRUMENT,
FOR RACK MOUNTING
RECORDERS, PAPER,
LOGGING AND GRAPHIC
TESTERS, INSULATION
VOLTMETERS, AC
VOLTMETERS, DC
WATTMETERS

ZOLOMATIC CORPORATION
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
PROJECTORS, SLIDE

ZOOMAR, INC.
LENSES, OPTICAL, FIXED
LENSES, OPTICAL, ZOOM
METERS, LIGHT

Here's one way to kill a Teltron tube



Teltron image orthicons have long life characteristics. You'll grow old trying to wear them out. These tubes offer performance features surpassing the finest image orthicon's manufactured (monochrome or color applications) at a savings of 35% to 65% (computed on average hourly cost basis). Teltron tubes are guaranteed as long or longer than any competitors product, (for just about everything but smashing them with a hammer). Join the list of satisfied Teltron users. You'll agree that Teltron is the "Answer to a need".

Teltron tubes are die-hards.



7 BALA AVENUE, BALA CYNWYD, PA. 19004 Telephone 215-664-6672

When leading broadcast engineers insist on genuine EEV camera tubes, they must have good reasons.

They do. Plenty of them, in fact.

Television broadcasters the world over have come to rely almost exclusively on the unique combination of tube quality and long-life economy that only English Electric Valve — the world's foremost camera tube manufacturer — can provide.

Typical of this foremost camera tube line are . . .

ELCON-Target Image Orthicons

- Long life — 3 to 4 times longer
- Stable, non-stick target
- Uniform sensitivity and gamma throughout extended tube life
- No burn-in



ELCON Color-Matched Tubes

Matched color sets of ELCON Image Orthicon tubes are selected on the basis of camera control operating parameters, as well as tube sensitivities and signal current outputs. And, in most cases, the need for trimming with neutral density filters is completely eliminated . . . orbiting is not required . . . and sensitivity is improved.

Type	Description
4415E/ 4416E	3" tube—field mesh; matched set of three tubes.



ELCON 3" Image Orthicon

Non-field mesh and field mesh tubes with effective operational life of 3,000 to 5,000 hours. Full target warranty of 1,200 hours.

Type	Description
5820A/E	3" tube—non-field mesh
7293B	3" tube—field mesh
8093A/E	3" tube—field mesh; with close target-to-mesh spacing



ELCON 4 1/2" Image Orthicon

ELCON Target — JEDEC-designated; 3,000-5,000/hour operational life; 1,200/hour target warranty.

Type	Description
7295C	4 1/2" tube — field mesh.
7389C	4 1/2" tube — field mesh; with close mesh-to-target spacing.

1-inch Vidicons



1-inch Vidicons, Integral Mesh

Type	Description
P860	Utilizes new photosurface (similar to 8625, 8626) for high sensitivity, minimum lag; film or studio applications; monochrome or color
7038	Monochrome or color film camera applications; 600 ma filament
7735A	For studio and remote cameras; high sensitivity; 600 ma filament

1-inch Vidicons, Separate Mesh

- Highest quality pictures with minimal shading
- Low lag; reduced long-term sticking.
- Lower light level operation
- Photo-surface of 8625 and 8626 vidicons combine high "blue" sensitivity and reduced "red" sensitivity for correct panchromatic response to standard tungsten lighting
- Resolution exceeds 1,000 lines
- Beam landing errors minimized for improved signal output

Type	Description
8625	High sensitivity photosurface; preferred spectral response of 7038 type; 600 ma filament
8626	Equivalent to 8625, with 95 ma filament for transistorized cameras
8507	Low lag, high sensitivity characteristics; 600 ma filament
8541	Equivalent to 8507, with 95 ma filament for transistorized cameras
8572	Low lag characteristics for film application, monochrome or color; 600 ma filament

the
Blue
Ribbon
Line

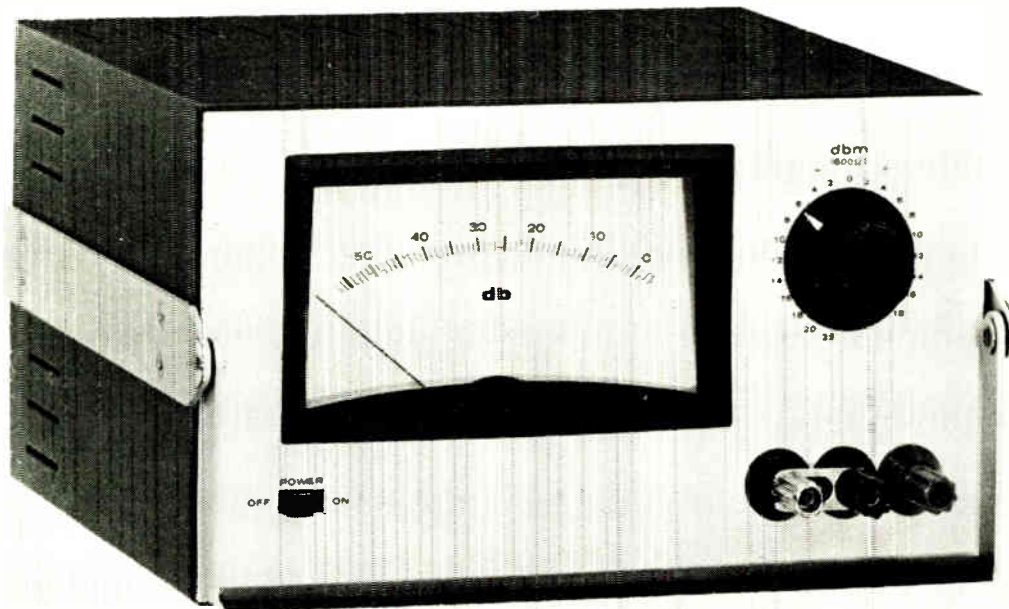
Other tubes available for specific applications. World-wide patents applied for.

For complete information and prices on the Blue Ribbon quality EEV camera tube line, contact

VISUAL ELECTRONICS CORPORATION

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FIRST BY ANY STANDARD



A new way to keep your signal clean.

CBS Laboratories presents its new Model 600 Wide Range Program Monitor.

This remarkable instrument can't censor "blue" comics, but it can keep you from transmitting cross-talk, studio noise and other sounds that may clutter your signal.

In fact, it's the first monitor to combine the latest developments in audio technology with the reliability of solid-state design for accurate audio measurement and analysis on a single 60 dB-wide scale.

Where the standard Volume Indicator measures only the top 23 dB of signal level logarithmically, this new Program Monitor displays information from +3 to -57 dB on a single linear, decibel scale, thus permitting accurate reading of low level audio material as well as line noise during program pauses. The 0 dB reference settings are adjustable from +18 to -22 dBm.

The 600 is also equipped with a separate DC output for graphic logging over the full 60 dB range or to drive a second meter for remote monitoring. It is also available in a standard 19-inch mounting rack from which it can be easily removed for portable use.

While not intended as a replacement for the standard Volume Indicator, the 600's meter ballistics are such that its readings are compatible with VU indications. It's a practical studio monitor as well as a valuable measuring tool.

SPECIFICATIONS:

Model 600 Wide Range Program Monitor, \$345. As shown above, without standard 19-inch mounting enclosure, \$305.

Reference Deflection (0 dB)	Adjustable from +18 to -22 dBm
Internal Noise Level	At least 15 dB below the -57 dB reading
Total Measurable Range	-79 to +21 dBm
Scale	Linear 60 dB-wide scale from -57 to +3 dB
DC Output	Linear volts dB output is 6 volts maximum at 5500 ohms impedance. Calibrated to provide remote monitoring
Frequency Range	50 to 15,000 cps
Linearity	± 1 dB
Input Impedance	15,000 ohms, bridging, balanced or unbalanced
Maximum Operating Temperature	55° C
Dimensions	In enclosure: 19" wide, 7" high, 10" deep Out of enclosure: 9" wide, 5" high, 10" deep
Power Requirements	12 watts, 115/230 volts AC
Shipping Weight	With enclosure: 14 lbs. Without enclosure: 9 lbs.

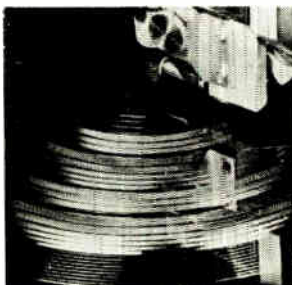
Technical series Professional Test records

Unique, high-precision tools designed to help audio and quality control engineers and test and service technicians to evaluate audio components, equipment and systems.

Each record has a complete series of tests. These eliminate the need for certain equipment, save hours of time, and make the record a productive tool in the laboratory, on the production line, and in field testing.

BTR 150 BROADCAST TEST RECORD

Developed especially to meet needs of broadcast engineers seeking a convenient signal source for testing and adjusting all audio equipment. It contains Volume Indicator ballistic calibration signals and is an essential tool for measuring phonographic pickup response. In providing complex waveforms for special tests, it replaces elaborate instrumentation generally unavailable in broadcast stations. Can be used to advantage by all AM, FM, TV and FM-Stereo broadcasters. **BTR 150, Net Ea. \$10.00**



STR 130 RIAA FREQUENCY RESPONSE TEST RECORD

Designed for calibration of professional recording equipment and for testing response of professional and consumer record reproduction equipment. Rapid, accurate procedures replace lengthy and tedious adjustments. Time for production testing and quality control is reduced to a fraction of time required with conventional methods. Suitable for use with automatic curve tracer to provide permanent, visible records for precise evaluation. Instruction for use without automatic curve tracing included. **STR 130, Net Ea. \$10.00**

STR 100 STEREOGRAPHIC FREQUENCY TEST RECORD

Designed for evaluation of pickups and systems, it was recorded with a constant amplitude characteristic below 500 cps and a constant velocity characteristic above 500 cps. Tests include: Sweep Frequency (with the sweep rate synchronized with the General Radio Type 1521 A Recorder); Spct Frequency (with voice announcements); Channel Separation; Wave-length Loss and Stylus Wear (to pinpoint oversize or worn-out styli, and excessive pickup tracking force); Compliance; Phasing; Vertical and Lateral Tracking Tone Arm Resonance (to check system performance at low and sub-audible frequencies and thus reveal undamped resonances which may cause equipment over-loading). **STR 100, Net Ea. \$6.50**

CBS LABORATORIES
Stamford, Connecticut. A Division of
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AM BROADCAST TRANSMITTERS

(powers available up to 100 KW)

- AM-1KA 1000 watts
- AM-5KA 5000 watts
- AM-10KA 10,000 watts

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(powers available up to 40 KW)

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- FM-2.5HA 250 watts
- FM-1KA 1000 watts
- FM-5/7.5KA 5000/7500 watts
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Completely solid state stereophonic equipment will be in actual operation at the 1967 NAB Convention.

Write for complete details on AEL AM and FM Broadcast Transmitters



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 HARWOOD BLDG.
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EAC ASSOCIATES
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 404 252-2445
API INSTRUMENTS CO
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THUNDERBIRD ENG CO
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 PRAIRIE VILLAGE, KANSAS
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THUNDERBIRD ENG CO
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 316 684-3941
SAUL COHEN
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 DETROIT, MICH
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THUNDERBIRD ENG CO
 P O BOX 6156
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 314 838-6688
API INSTRUMENTS CO
 162 RT 208 BOX 123
 DAKLAND, N J
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TECHNICAL SALES INC
 P O BOX 182
 PULASKI, N Y
 315 298-5103
API INSTRUMENTS CO
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 NEWTOWN SQUARE, PA
 215 353-0772
CAREY-WDLF CO
 P O BOX 12425
 FT WORTH, TEXAS
 817 738-1702
CAREY-WDLF CO
 P O BOX 60338 4031 BRADWAY
 SUITE 103
 HOUSTON, TEXAS
 713 643-2114

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 4242 WATERBURY DR.
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 DALLAS, TEX
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 LONGBEACH 1-7290
EDWIN A. SCHULZ CO.
 BDX 40305, 271 SHERWOOD DR.
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ANDERSON SALES CO.
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JERRY KIRSHBAUM & CO.
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 P. O. BOX 35266
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 7603 DENNIS DRIVE
 DES MOINES, IOWA
 515 276-3777
KOENIG-MYERS ASSOCIATES

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HE 2-8300
CARTWRIGHT & BEAN
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ROBERT MILSK CO.
19375 JAMES CDUZENS HWY.
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BOX 21
SOUTH DUXBURY, MASS.
WE 4-2498
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IRV BROWN CO.
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ME 1-8480
J. Y. SCHOONMAKER CO.
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SAN ANTONIO, TEXAS
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MILWAUKEE, WIS.
372-7650
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ATLAS RADIO CORPORATION
50 WINGOLD AVENUE
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NEBCO ASSOC.
374 GREGORY AVE.
MONROEVILLE, PENN 15146
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CARTWRIGHT & BEAN
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CROSSTOWN STA.
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206 682-7337
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LOREN F. GREEN & ASSOCIATES
5218 WEST DIVERSEY AVE
CHICAGO, ILL.
312-286-6824
SLOAN & ASSOCIATES
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MALDEN 48, MASS.
617 322-1153
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LANG ELECTRONICS, INC.
507 FIFTH AVE.

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815 WEST EWING ST.
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206-284-8020
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BOULDER, INDUSTRIAL PARK,
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ELSCO, COLORADO
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WASHINGTON, D. C.
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JACKSONVILLE, FLORIDA
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GENERAL TELEVISION NETWORK
DETROIT, MICHIGAN
313 548-2500
K & M ELECTRONICS
MINNEAPOLIS, MINNESOTA
612 927-6545
VIDEO SYSTEMS, INC.
ST. LOUIS, MISSOURI
314 772-3295
TELE-MEASUREMENTS
CLIFTON, NEW JERSEY
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SALES, INC.
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918 622-1007
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215 477-9000
BLUFF CITY DISTRIBUTING CO.
MEMPHIS, TENNESSEE
901 276-4501
UNIVERSAL MAGNETICS INC.
DALLAS, TEXAS
214 631-4730
UNIVERSAL MAGNETICS INC.
HOUSTON, TEXAS
713 529-3105
ELECTRONIC SALES CORP
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801 466-8631
MUTUAL ELECTRONIC SUPPLY
SEATTLE, WASHINGTON
206 632-2791

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ELMER BUSH
COMPANY ADDRESS
CANAL STREET
BRISTOL, PENN. 19007

BAUER ELECTRONICS CORPORATION
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1663 INDUSTRIAL ROAD
SAN CARLOS, CALIF. 94070
COMPANY REPRESENTATIVES
JESS SWICEGOOD
P. O. BOX 1828
DOTHAN, ALA.
205 794-6339
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1328 W. FLOWER
PHOENIX 13, ARIZ.
602 266-2292
R. W. PLATT
2317 SO. 25TH STREET
FORT SMITH, ARK. 72901
501 783-8492
RICHARD R. BROOKS
3706 W. 225TH STREET
TDRANCE, CALIF. 90505
213 373-2309
HENRY S. BROUGHALL
600 MARBLE STREET
BROOMFIELD, COLO. 80020
303 466-3851
ROBERT H. PEARSON
99-117 CHESTER WAY
AIEA, HAWAII 96701
GLENN E. WEBSTER
823 S. GREENWOOD AVE.

PARK RIDGE, ILL. 60068
312 823-8206
HERBERT L. ARMS
P. O. BOX 327
CORDON, IND.
812 738-5752
WILFRED FISHER
VANCLEVE, KY. 41385
606 666-9006
GEORGE WILSON
P. O. BOX 592
FERRIDAY, LA.
318 7200
HOWARD B. HAYES
18510 MUNCASTER ROAD
DERWOOD, MD. 20752
301 948-5863
J. GORDON KEYWORTH
BERKSHIRE DRIVE
WILLIAMSTOWN, MASS.
413 458-4538
AUBREY FELDER
P O BOX 546
BROOKHAVEN, MISS.
601 1298
OLIVER J. COBURN
P. O. BOX 636
LIBBY, MONTANA 59923
RICHARD W. BURDEN
342 LEXINGTON AVE.
MT. KISCO, N. Y. 10549
914 666-3730
HENRY A. BOGUSLANSKI
TELE-PROJECTS, INC.
30 EAST 42ND STREET
NEW YORK, N. Y. 10017
212 687-1255
JOHN D. BROOKS
200 STONEWALL STREET
ALBEMARLE, N. CAR.
704 982-5667
WILLIAM F. BAKER, JR.
WBKR BROADCAST SERVICE
1169 SYLVANIA ROAD
CLEVELAND HTS, OHIO 44121
382-0900
WILLIAM H. BRADLEY
200 COUNTRY CLUB ROAD
SAND SPRINGS, OKLA. 74063
918 245-5603
A. C. MCMILLIAN
16679 S. W. MAPLE CIRCLE
LAKE OSWEGO, OREGON 97034
503 636 6257
KENNETH B. ANDERSON
44 MCCRACKEN ROAD
GREENVILLE, PA. 16125
412 588-4320
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AM-13 VILLA RICA
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RAPID CITY, S. DAK.
605 342-4372
CHESTER J. DAVIS
HARTSVILLE, TENN. 37074
374-2422
CHESTER FAISON
P O BOX 4727
DALLAS, TEXAS
214 826-1044

E. J. BAUGHMAN COMPANY
SALES MANAGER
E. C. BAUGHMAN
COMPANY ADDRESS
1914 N. COGSWELL RD.
SOUTH EL MONTE, CALIF 91733

BECKMAN & WHITLEY, INC
MARKETING MGR.
DONALD L. TUCKER
COMPANY ADDRESS
441 WHISMAN ROAD
MOUNTAIN VIEW, CALIF. 94040
COMPANY REPRESENTATIVES
HENRY GROSSMAN ASSOC.
519 S. 5TH AVENUE
MT. VERNON, NEW YDRK 10550
914 664-5393

BELAR ELECTRONICS LABORATORY
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THE MARK VI Special Effects Generator is a moderately priced, self-contained unit designed to meet commercial black and white television broadcast standards. Two models are available: a standard rack-mounted Mark VI-A, and a remote-controlled Mark VI-AR (SHOWN BELOW). Both provide three basic wipes, external video keying, and independent selective matting of background information in any value of gray from black to white. The Mark VI can serve as an ideal standby generator, an auxiliary unit for a second studio, or can be used in mobile van operations. Prices start from \$1375.00.

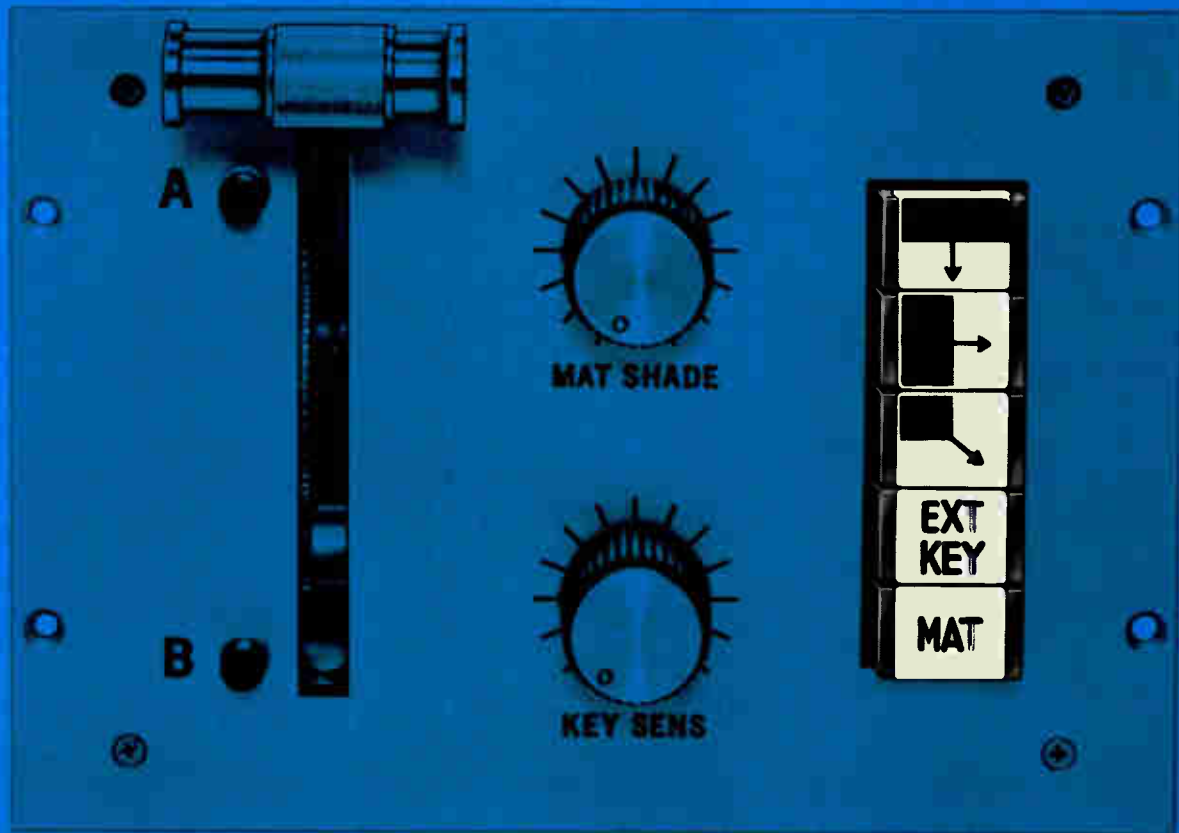
THE MARK VII is an advanced Color Special Effects Generator designed for the most critical studio applications. The Mark VII is capable of color inserts (color matting). The output video of the unit can be the combination of background video and artificially-generated color inserts—with any color within the NTSC spectrum generated by manual control settings. A non-additive mixing technique, insensitive to variations in video brightness levels, is incorporated for new effects with lap dissolves. The basic system accepts a variety of monochrome or color signals in either composite or non-composite format at the inputs. In addition to keying effects, as many as fourteen wipes can be provided. Prices from \$1810.00. Write for additional information.

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THE MARK VIII Automatic Gain Control (AGC) Video Amplifier was developed to provide continuous monitoring of video signals from a variety of originating equipment. It is available in two models: one for use in studios where local drives can be supplied, and the other where drive pulses are derived from composite video signals originating outside the studio, or from VTR's. Both have full color capabilities, and are designed to compensate for both video and set-up levels over a $\pm 6\text{db}$ range. It is ideally suited to follow film chains and live cameras, or network originations. It is also used ahead of video tape recorders and standard transmission lines where signals are limited to precise levels to prevent distortion. Prices from \$3340.00.

THE MARK IX Video and Pulse Distribution Amplifiers were developed specifically for color studio operations. Up to ten video or pulse amplifiers (or any combination of both) can be plugged into the Mark IX chassis to provide as many as 40 isolated signal outputs at one central distribution point. The Mark IX Video Amplifier requires no high frequency adjustment because of its wideband frequency response characteristics. Differential gain and phase measurements are shown for all input signal conditions at 0.25 percent and 0.25 degrees, respectively. The Pulse Amplifier has highly isolated signal outputs with an impedance of 75 ohms terminated at the sending end. Each amplifier has bridging or looping input drive signal provisions. The active circuitry maintains constant pulse rise times of less than 50 nanoseconds and is compensated for possible component replacement. Pulse delay of less than 50 nanoseconds is measured at the output. Prices: Video Pulse Amplifier, \$255.00 each, Electronic Housing, \$275.00.



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The Belar ADD-ON MONITORING SYSTEM allows the broadcaster to fulfill his monitoring requirements as the needs arise. The basic unit is the FMM-1 Frequency and Modulation Monitor for monaural use, and when requirements call for SCA, add the plug in SCAM-1 SCA unit. And for stereo the FMS-1 Stereo unit completes the system.

Today's monitoring requirements make this system a must.

BELAR ELECTRONICS LAB.
Delaware & Montrose Avenues
Upper Darby, Pa. 19082

THE
ADD-ON
IS
COMPLETE

Pilot Frequency
38 KC Suppression
L + R Crosstalk
L - R Crosstalk
AM Noise or Inc. AM

The FMS-1 monitors and measures:

Total Modulation
L + R Modulation
L - R Modulation
Pilot Amplitude
Left or Right Channel

A stereo station must—the Belar FMS-1 monitors the 19 KC pilot frequency as well as all the modulation characteristics of FM stereo. The advanced solid-state circuitry guarantees that all FCC performance requirements for stereo monitors are exceeded so that precise, accurate proof-of-performance measurements can be made for the finest in stereo broadcasting.

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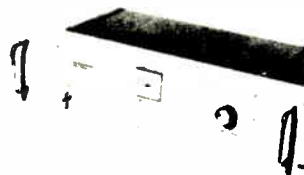
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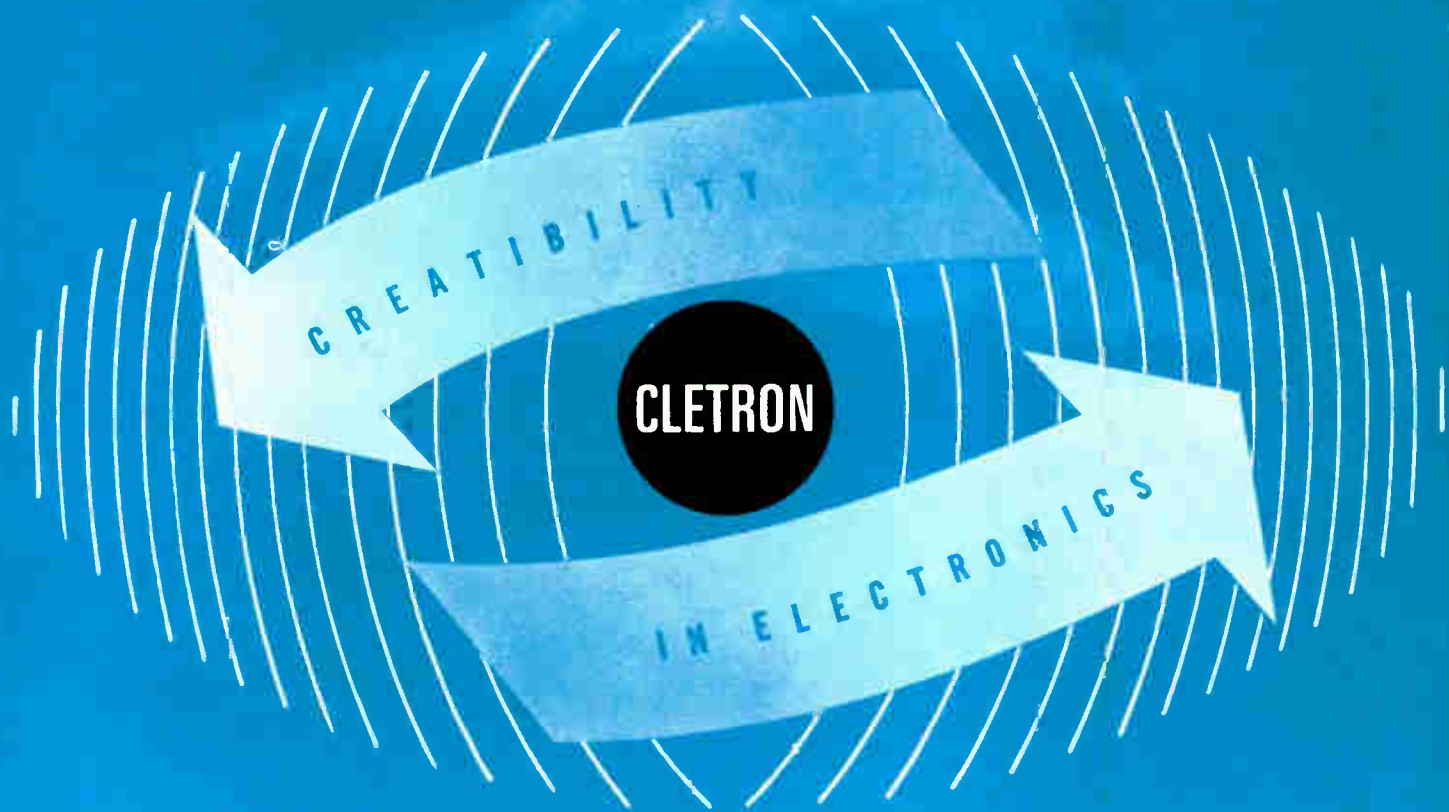
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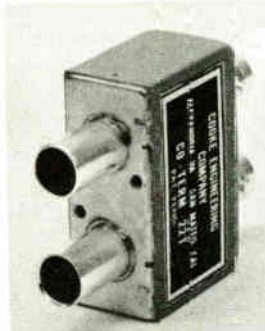
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P O BOX 866
BELLEVUE, WASH. 98004
206 GL 4-1233

5818 NORTH OAK TRAFFICWAY
KANSAS CITY, MO.
GL3-3202
TMC SALES CORP.
2465 LEMOINE AVENUE
PORT LEE, NEW JERSEY
201-944-8340
ALBUQUERQUE ELECTRONICS
2318 WISCONSIN, N. E.
ALBUQUERQUE, N. M.
505-298-2628
MESSINA ELECTRONICS
25 GREENMILL TERR.
WEST SENECA, NEW YORK
NR4-7445
MILLAR-HUTTO ASSOCIATES
P. O. BOX 17566
CHARLOTTE, N. C.
EM6-2061
BAHR, GREENLEAF & ASSOC. INC
14700 DETROIT AVENUE
CLEVELAND, OHIO
216-221-9030
STINSON ASSOCIATES
227 HAVERFORD AVE
NARBERTH, PENN.
MO4-5511
COVERT-NEWMAN CO.
300 MT. LEBANON BLVD.
PITTSBURGH, PA.
412 563-0303
PARVIN SALES CO.
P. O. BOX 307
ADDISON, TEXAS
714 EM3-8596
R. G. BOWEN CO. INC.
31 SO. 3RD. E.
SALT LAKE CITY, UTAH
801-364-6692
NORTHWESTERN AGENCIES
4130 FIRST AVE SO.
SEATTLE, WASHINGTON
206 MA3-8882
REPS IN OTHER COUNTRIES
ELECTRO TEC MARKETERS LTD.
1624 WEST THIRD AVE
VANCOUVER 9, B.C.
604-04-5711
RUTHERFORD AGENCIES
2705 BATES ROAD
MONTREAL 26, QUEBEC
731-7696

1718 W. MISHAWAKA ROAD
ELKHART, INDIANA 46514
COMPANY REPRESENTATIVES
DOBBS - STANFORD CO
569 LAUREL ST - P.O. BOX 266
SAN CARLOS, CALIF
415 591-0339
MARSHANK SALES CO
7422 MELROSE AVE
LOS ANGELES 46, CALIF
213 938-2591
DOW FITZGERALD
6231 S. CHURCH
TAMPA, FLA.
SAM LITTLE CO
2396 CONALLY DR
P O BOX 308
EAST POINT, GA
404 761-5353
JOHN GILL
1043 E 95TH ST
CHICAGO, ILL 60619
312 731-4404
CENTRAL ELECTRONICS SALES CO
P O BOX 591
INDIANAPOLIS, IND
317 923-2932
TECHREP ASSOCIATES
P O BOX 161
TOPSFIELD, MASS
617 887-8671
BUTCHART - RATHSBURG & ASSOC
16637 F WARREN AVE
DETROIT, MICH
313 882-1717
CENTRAL ELECTRONICS SALES CO
19217 FAIRPORT
DETROIT 5, MICH
313 526-5841
ELIAS ELECTRONICS
P O BOX 126 N E STATION
LIVONIA, MICH
313 476-1520
ROBERT SHAW
7800 KENRIDGE LANE
ST LOUIS, MO
314 962-7429
ELDISERCO
52 MEADOWBROOK DR
SOMERVILLE, N J
201 359-6492
METROREP
P O BOX 782
FRESHOLD, N J
212 462 1221
NILES CHRISTENSEN - EXPORT
SPRINGFIELD, N J
201 273-3822
TELESCO INTL - EXPORT
171 MADISON AVE
NEW YORK 16, N Y
212 683-9420
ROBERT WHITE
P O BOX 9408
SOLON, OHIO
216 248-1317
A C MCMILLAN
16679 S W MAPLE CIRCLE
LAKE OSWEGO, ORE
503 636-6257
DON MULL
P O BOX 313
FREDRICKSBURG, TEXAS
812 997-3388
REPS IN OTHER COUNTRIES
CALDWELL A/V EOPT CO
135 MIDWEST RD
SCARBOROUGH, ONTARIO

B AARON & CO
P O BOX 186
ROSLYN, L I, N Y
516 621-0630
REP TECH, INC
P O BOX 98
PICKARD BLDG
SYRACUSE, N Y
315 454-0761
BEDELE EQUIPMENT
6900 SILVERTON
CINCINNATI, OHIO
513 793-0140
BARCOCK-BOHAKER-STIDDARD
130 W LANCASTER
WAYNE, PA
215 MU 8-8288
LEE ASSOCIATES
432 WEST END
WINSTON-SALEM, S C
919 724-2406

CUSH CRAFT
SALES MANAGER
ROBERT W. CUSHMAN
COMPANY ADDRESS
621 HAYWARD STREET
MANCHESTER, NEW HAMP. 03103
COMPANY REPRESENTATIVES
BRADDOCK ASSOCIATES
P. O. BOX 305
HADDONFIELD, N.J. 08033
OHIO ASSOCIATES
P. O. BOX 728
LIMA, OHIO
CHESTER DREXLER CO.
3 LEE DRIVE
50, FARMINGDALE, L.I.,
NEW YORK 11737
IVAN HARRISON CO.
P. O. BOX 30241
DALLAS, TEXAS 75230
LOWELL, KINGS & ASSOCIATES
P. O. BOX 4116
OVERLAND PARK, KANSAS 66204
SAM LITTLE COMPANY
BOX 308
EAST POINT, GEORGIA 30044
LOWELL, KINGS & ASSOCIATES
P.O. BOX 26, CREVE COEUR STA
ST. LOUIS, MO. 63141
ELVEY-PROCTOR COMPANY
1650 LAUREL AVENUE
SAN CARLOS, CALIF.
JACK SPROCK SALES COMPANY
3520 W. BROWARD BLVD.
FT. LAUDERDALE, FLA. 33312
R. G. THOMPSON COMPANY
5836 PITTSBURGH AVE., SOUTH
MINNEAPOLIS, MINN., 55419
WALLACE & WALLACE
1206 MAPLE AVENUE
LOS ANGELES, CALIF. 90015
WILLIAM K. WOOD CO., INC.
P.O. BOX 46046
SEATTLE, WASH.
EMEC, INC.
16D TERMINAL DRIVE
PLAINVIEW, L.I., N.Y. 11803

CUSTOM CRAFT DESIGNS
SALES MANAGER
J E LICHTENSTEIN
COMPANY ADDRESS
2135 DREXEL ST
WEST HYATTSVILLE, MD 20783
301 422 7684

DAGE-BELL CORPORATION
SUBSID THE RAYTHEON COMPANY
SALES MANAGER
DALE SCHONMEYER
BRAND NAMES
DAGE
COMPANY ADDRESS
455 SHERIDAN AVENUE
MICHIGAN CITY, INDIANA 46403
COMPANY REPRESENTATIVES
HANK GREENSPAN
REGIONAL MANAGER
936 W FLORENCE AVE
INGLEWOOD, CALIF 9D301
213 678 9231
MERTON KNOLD
REGIONAL MANAGER
67D MIAMI CIRCLE, NE
ATLANTA, GEORGIA 3D324
404 233 3383
ORAL EVANS
REGIONAL MANAGER
455 SHERIDAN AVENUE
MICHIGAN CITY, INDIANA 46360
219 874 3251

DATA INSTRUMENT DIV
INDUSTRIAL ELECTRONIC HOWE CO
SALES MANAGER
FRANK BRIDGES
BRAND NAMES
TELEQUIPMENT
WIDNEY DORLEC
COMPANY ADDRESS
7300 CRESCENT BLVD.
PENNSAUKEN, NEW JERSEY D811D
COMPANY REPRESENTATIVES
W K GEIST CO
12D5 AIRWAY AVENUE
GLENDALE, CALIF
213 245 9501
CRANE ASSOC
19419 KESWICK STREET
VAN NUYS, CALIF
213 ST D 7972

CORNELL-DUBILIER ELECTRONICS
DIV. FED. PACIFIC ELECTRIC CO
SALES MANAGER
JOHN GYNN
CORNELL-DUBILIER ELECTRONICS
921 PROVIDENCE HWY
NORWOOD, MASS
COMPANY ADDRESS
50 PARIS STREET
NEWARK, NEW JERSEY D7101
COMPANY REPRESENTATIVES
DICK BELLEW CO
1005 WEST 4TH STREET
EL DORADO, ARKANSAS
501-UN3-8352
MOULTHROP & HUNTER
165 11TH STREET
SAN FRANCISCO, CALIF.
415 UN3-7880
HERB BECKER CO.
1140 CRENSHAW BLVD
LOS ANGELES, CALIF.
213-931-1257
J. H. FEDER, JR.
FOR HAWAII
4144 GLENCOE AVENUE
VENICE, CALIF.
213 UP D-6681
R. G. BOWEN CO, INC.
721 SOUTH BROADWAY
DENVER, COLORADO
303-722-4641
MILLAR-HUTTO ASSOC. INC.
P. O. BOX 1603
WINTER PARK, FLORIDA
305-MI7-74D7
MILLAR-HUTTO ASSOCIATES
1036 PEACHTREE ST. N. E.
P. O. BOX 7116 STATION C
ATLANTA, GEORGIA
404-TR6-0919
MARKAL SALES CORP.
5787 LINCOLN AVE
CHICAGO, ILLINOIS
312-LO1-7290
KNAGGS, COLLINS,
HAVERCAMP, HEMPE, INC.
NO. 6 BANK SQUARE
EAST ST. LOUIS, ILLINOIS
EX7-2398
MACNABB, SCHROEDER & LOOMIS
81D EAST 64TH ST
INDIANAPOLIS, INDIANA
317-CL1-4571
STINSON ASSOCIATES
123D3 STARLIGHT LANE,
BOWIE, MARYLAND
HE4-4126
W. A. HENDRICKSON CO.
291 FIRST PARIS ROAD
SCITUATE, MASS.
617-945-0652
BUTCHART-RATHSBURG & ASSOC.
16637 E. WARREN AVE
DETROIT, MICHIGAN
882-1717
STAM OLSEN & ASSOC.
4201 WOODDALE AVE
MINNEAPOLIS, MINN.
612-926-1158
KNAGGS, COLLINS,
HAVERCAMP, HEMPE, INC.

COURIER COMMUNICATIONS, INC.
A SUBSIDIARY OF
F.C.S.T. ELECTRONICS
COMMUNICATIONS, INC.
SALES MANAGER
S. D. KAPPEL
COMPANY ADDRESS
56 HAMILTON AVE.
WHITE PLAINS, NEW YORK 10601

CRAFTSMAN ELECTRONIC
PRODUCTS, INC
SALES MANAGER
JOSEPH H. GIBBS
115 KESSLER LANE
FAYETTEVILLE, N Y 13D66
BRAND NAMES
CRAFTSMAN
COMPANY ADDRESS
133 W. SENECA ST.
MANLIUS, NEW YORK 131D4
COMPANY REPRESENTATIVES
A-E-5
1559 CHESTER ST
AURORA, COLO
303 366-02D8
GETTLEMAN & LITTEKEN CO
3736 DEMPSTER ST
SKOKIE, ILL
312 588-0030
NEAR, INC
99 HIGHLAND ST
SOMERVILLE, MASS
617 776-2262
JOHN E. W. ANDERSON
5231 HUMBOLDT AVE
MINNEAPOLIS, MINN
612 823-6459
CARMINE A VIGNOLA
21 SCHELLRIDGE RD
JEFFERSON CITY, MO
314 635-1D23
STEVE FISHER
121 CEDAR LANE
TEANECK, N J
2D1 836-6661
WILLIAM TAUBER
151 FAYETTE BLVD
SYRACUSE, N Y
315 446-7094
SHAMROCK ELECTRONICS
1755 W MARKET ST
AKRON, OHIO
216 864-3090
JOHN MUSTICO
2D6 BUEYER RD
HAVERTOWN, PA
215 446-1961
ERNEST S WILKS
BOX 14466
DALLAS, TEXAS
214 242-5321
FLECHART & SULLIVAN, INC
321 N E 45TH ST
SEATTLE, WASH
2D6 633-4979

CROWN INTERNATIONAL
SALES MANAGER
CLYDE W. MOORE
BRAND NAMES
CROWN
COMPANY ADDRESS

REYNOLDS & ASSOC
PO BOX 1032
EAU GALLIE, FLORIDA
305 354 0520
KENNETH W MEYERS CO
7256 TOWMY AVENUE
CHICAGO, ILLINOIS
312 SP 4 6440
MALONE ENG ASSOC
7640 W NORTH AVENUE
ELMWOOD PARK, ILLINOIS
312 456 4031
INDUSTRIAL SALES CO
418 E BERRY STREET
FT WAYNE, INDIANA
219 742 7009
BROGER INST SALES INC
176 2ND STREET
WALTHAM, MASS
617 TW 1 8045
JAMES LEE CO
4241 TOLEDO AVENUE
MINNEAPOLIS, MINN
612 920 1525
LEEMARK ASSOC
2001 BIG BEN BLVD
ST LOUIS, MISSOURI
314 MI 5 1470
L & M ASSOC
511 VICTOR STREET
SADDLE BROOK, NEW JERSEY
201 843 8700
FRANK TYLISKI CO
330 NORTHERN BLVD
GREAT NECK, NEW YORK
516 466 9070
M FRIEDMAN ASSOC
7 HEATHER ROAD
BALA CYNWYD, PENNSYLVANIA
215 TE 9 3450
WEISS INST
6 BARTON DRIVE
PITTSBURGH, PENNA
412 371 3020
OATRONICS INC
7800 WEST GLEN DRIVE
HOUSTON, TEXAS
713 SD 2 9951
ARVA INC
1320 PROSPECT STREET
SEATTLE, WASH
206 MA 2 0177

**DATAPULSE DIVISION
OF DATAPULSE, INC.**
SALES MANAGER
M. B. COX, JR.
COMPANY ADDRESS
509 HINDRY AVE.
INGLEWOOD, CALIF. 90306
213 671-4334
TWX 910 328-6109
COMPANY REPRESENTATIVES
BCS ASSOCIATES, INC
2317 BOB WALLACE AVE., S W
HUNTSVILLE, ALA. 35805
HYTRONIC MEASUREMENTS
1017 NORTH THIRD STREET
PHOENIX, ARIZONA 85004
JOHN O'HALLORAN & ASSOCIATES
3268 ROSECRANS BLVD
SAN DIEGO, CALIF. 92110
JOHN O'HALLORAN & ASSOCIATES
3921 E BAYSHORE BLVD
PALO ALTO, CALIF. 94303
JOHN O'HALLORAN & ASSOCIATES
10700 VENTURA BLVD
N. HOLLYWOOD, CALIF. 91604
HYTRONIC MEASUREMENTS, INC.
1295 SOUTH BANNOCK STREET
DENVER, COLORADO 80223
INSTRUMENT CONSULTANTS, INC
2381 WHITNEY AVENUE
HAMDEN, CONN. 06518
BCS ASSOCIATES, INC
940 FERN DRIVE
ORLANDO, FLORIDA 32803
RIDGWAY ASSOCIATES, INC
3759 N HARLEM AVENUE
CHICAGO, ILLINOIS 60634
LEEMARK ASSOCIATES, INC
4518 W 89TH STREET
PRAIRIE VILLAGE, ILL. 60207
LEEMARK ASSOCIATES
P O BOX 6145
LEAWOOD, KANSAS
BRIMBERG ASSOCIATES, INC
110 E PENNSYLVANIA AVENUE
TOWSON, MARYLAND 21204
BRIMBERG ASSOCIATES, INC
814 THAYER AVENUE
SILVER SPRINGS, MD. 20910
INSTRUMENT CONSULTANTS, INC
P O BOX 25
WABAN, MASS. 02168
RIDGWAY ASSOCIATES, INC
7720 MORGAN AVENUE, SOUTH
MINNEAPOLIS, MINN. 55423
LEEMARK ASSOCIATES, INC
2001 BIG BEND BLVD
ST. LOUIS, MO. 63117
G CURTIS ENGEL & ASSOCIATES
210 S BROAD STREET
RIDGWOOD, NEW JERSEY 07451
HYTRONIC MEASUREMENTS, INC
205 SAN PABLO, S E
ALBUQUERQUE, N. M. 87108
J D RYERSON ASSOCIATES, INC.
P O BOX 1400
SYRACUSE, NEW YORK 13201
BCS ASSOCIATES, INC
1039 E WENDOVER AVENUE
GREENSBORO, N. C.
RIDGWAY ASSOCIATES, INC
22811 LORAIN ROAD
FAIRVIEW PARK, OHIO 44126

RIDGWAY ASSOCIATES, INC
2400 E DOROTHY LANE
DAYTON, OHIO 45420
AIREP ELECTRONICS, INC
8119 BELLAIRE BLVD
HOUSTON, TEXAS 77036
AIREP ELECTRONICS, INC
P O BOX 9555
OALLAS, TEXAS 75214
HYTRONIC MEASUREMENTS, INC
2022 S MAIN STREET
SALT LAKE CITY, UTAH 84115
HARRY LEVINSON
1211 E DENNY WAY
SEATTLE, WASH. 98122
REPS. IN OTHER COUNTRIES
TOSHNIWAL BROS PRV LTD
198 JAMSHEDJI TATA ROAD
ROMBAY 1, INDIA
TAIYO SHOJI COMPANY, INC.
16, 5 CHOME, SHIBA-SHIMBASHI
MINATO-KU, TOKYO, JAPAN
SELRAM ELECTRONICS
83, AVENUE DES MIMOSAS
BRUSSELS, BELGIUM
OLTRONIX A/S
MALTGAARDEVEJ 18
GENTOFF, DENMARK
OY FINDIP
MANNERHEIMINTIE 29,C
HELSINKI 25, FINLAND
TECHNIQUE ET PRODUITS
63, RUE D AGUESSEAU
BOULOGNE-5-SEINE, FRANCE
NEUMULLER & CO CMBB
SCHRAUOOLPHSTRASSE 2A
A MUNICH 13, WEST GERMANY
DYNAMCO INSTRUMENTS, LTD
25 SALISBURY GROVE
MYTCHETT, CAMBERLEY
SURREY, ENGLAND
SPECIAL-IND
VIA D. MANIN 33
MILAN, ITALY
ELOFYSCA N V-AMSTERDAM
WATERINGSCHANS 120
AMSTERDAM-C, HOLLAND
OATAMATIK
GRONLANOESLEIRET 31
OSLO, NORWAY
UNITRONICS
TOREE DE MADRID
PISO 12-OFICINA 9
PLAZA DE ESPAÑA
MADRID 13, SPAIN
SCANTELF AB
TENGDALHSGATAN 24
STOCKHOLM, SWEDEN
RAFRLDCHER AG
FOERRLTRUCKSTRASSE 110
ZURICH 8021, SWITZERLAND
EASTRONICS LTD
22 MAZE STREET
TEL AVIV, ISRAEL 22867
ATLAS INSTRUMENTS CORP
DIV OF ATLAS ELECTRONICS LTD
50 WINGOLO AVENUE
TORONTO, ONTARIO
ATLAS INSTRUMENTS CORP
DIV OF ATLAS ELECTRONICS LTD
342 1/2 ELGIN STREET
OTTAWA, ONTARIO
ATLAS INSTRUMENTS CORP
333 CAVENOISH BLVD
SUITE 390
MONTREAL, QUEBEC
SAMPLE ELECTRONICS PTY LTD
4 GRDSE STREET GLEBE
SYDNEY, N.S.W., AUSTRALIA
SAMPLE ELECTRONICS PTY LTD
9/11 CREMOREN STREET
RICHMOND E. I.
VICTORIA, AUSTRALIA

DAYTON ELECTRONIC PRODUCTS CO
COMMERCIAL SALES MANAGER
HANK JOSEFCZYK
COMPANY ADDRESS
117 E. HELENA ST.
DAYTON, OHIO 45404
513 461 4951

D & B ELECTRONICS CO
SALES MANAGER
VICTOR BRUNO
COMPANY ADDRESS
3611 ESSEX LANE
PHILADELPHIA, PA. 19114
215-NE7-2786

DEARBORN ELECTRONICS, INC
SUBSID SPRAGUE ELECTRIC CO
MARKETING MANAGER
CHARLES A. LITTLE
COMPANY ADDRESS
P.O. BOX 530
ORLANDO, FLORIDA 32802
COMPANY REPRESENTATIVES
SPRAGUE ELECTRIC CO
3550 N CENTRAL AVENUE
PHOENIX, ARIZONA 85012
602 279 5435
WM J PURDY OF CALIF
312 7TH STREET
SAN FRANCISCO, CALIF 94103
415 863 3300
SPRAGUE ELECTRIC CO
12870 PANAMA STREET
LOS ANGELES, CALIF 90066
213 870 0161
SPRAGUE ELECTRIC CO
5670 E EVANS AVENUE
DENVER, COLO 80222
303 756 3611
SPRAGUE ELECTRIC CO
3900 WISCONSIN AVE NW

WASHINGTON, D. C. 20016
202 244 6006
W BEN WIMBERLY CO
532 S FORT HARRISON
CLEARWATER, FLORIDA 33516
813 446 7072
W BEN WIMBERLY CO
500 S OSCEOLA STREET
ORLANDO, FLORIDA 32801
305 425 3083
SPRAGUE ELECTRIC CO
5942 W MONTROSE AVENUE
CHICAGO, ILLINOIS 60634
312 685 6400
SPRAGUE ELECTRIC CO
2511 E 46TH STREET
INDIANAPOLIS, INDIANA 46205
317 546 4911
ROTHENHEBER & CO., INC.
14211 CHESTERFIELD ROAD
ROCKVILLE, MO 20853
301 929 3388
TOM CRAWFORD AND SON
PO BOX 264
NORWOOD, MASS 02062
617 762 6914
SPRAGUE ELECTRIC CO
NDRTH ADAMS, MASS 01248
413 664 4411
SPRAGUE ELECTRIC CO
259 COLLINGWOOD
ANN ARBOR, MICH 48103
313 761 4080
DAYTON ENG SALES
1820 FAIRFIELD ROAD S
MINNETONKA, MINN 55343
612 545 2221
SPRAGUE ELECTRIC CO
391D LINDELL BLVD
ST LOUIS, MO 63108
314 535 7239
CLARFIELD-STOLLMAK ASSOC
175 WESTWOOD AVENUE
WESTWOOD, N J 07675
201 666 8989
C T CARLBERG & ASSOC
PO BOX 3177, STA D
ALBUQUERQUE, N M 87110
505 265 1579
JOSEPH F RIZZD CO - EXPDRT
ROOM 5710
EMPIRE STATE BLDG
NEW YORK, N Y 10001
212 736 0398
SPRAGUE ELECTRIC CO
928 BURKE STREET
WINSTON-SALEM, N.C. 27101
919 722 5151
SPRAGUE ELECTRIC CO
24 N MAIN STREET
CHAGRIN FALLS, OHIO 44022
216 247 6488
SPRAGUE ELECTRIC CO
224 LEO STREET
DAYTON, OHIO 45404
513 223 9187
ROTHENHEBER & CO., INC.
53 CRICKET AVENUE
ARMORE, PENNA 19003
215 642 6911
DELZELL & EVANS ASSOC
PO BOX 35093
DALLAS, TEXAS 75235
214 351-1839
SPRAGUE ELECTRIC CO
4601 AURORA AVENUE NORTH
SEATTLE, WASH 98103
206 632 7761
REPS. IN OTHER COUNTRIES
A DESKIN SALES CORP
1565 LOUVAIN STREET W
MONTREAL 11, QUEBEC
514 384 1420

DELCO RADIO DIV.
GENERAL MOTORS CORP.
SALES MANAGER
P A SANDBERG
COMPANY ADDRESS
700 E FIRMIN ST
KOKOMO, IND 46901
457 8461
BRANCH OFFICES
726 SANTA MONICA BLVD
SANTA MONICA, CALIF 90401
393 1465
5151 N HARLEM AVENUE
CHICAGO, ILL 60656
775 5411
57 HARPER STREET
DETROIT, MICH 48202
873 6560
324 CHESTNUT STREET
UNION, N J 07083
687 3770
1054 JAMES STREET
SYRACUSE, N Y 13203
474 6255

DELTA ELECTRONICS, INC
SALES MANAGER
LARRY MANCOCK
COMPANY ADDRESS
145 FAYETTE ST
WINSTON-SALEM, N.C. 27101
COMPANY REPRESENTATIVES
LONG ENGINEERING CO
961 BURKE STREET
WINSTON-SALEM, N.C. 27101
725-2306

DELTA ELECTRONICS INC
SALES MANAGER
ROBERT M FOLEY
COMPANY ADDRESS
4206 WHEELER AVENUE

ALEXANDRIA, VA 22304
COMPANY REPRESENTATIVES
REYNOLDS & ASSOC INC
P O BOX 1043
EAU GALLIE, FLA
305 254 0520
M J FEIN & CO
HARWOOD BLDG P O BOX 28
SCARSDALE, NEW YORK
914 GR 2 1100
ROCKE INTERNATIONAL CORP
13 EAST 40TH ST
NEW YORK, NEW YORK
MU 9 0200
ASHBY ASSOCIATES INC
CLAYPOOL BLDG SUITE 155
4130 LINCOLN AVE
OAYTON, OHIO
513 224-0561

DEMORNEY-BONARDI
DIV. OF DATAPULSE, INC.
SALES MANAGER
PAUL A. LIST
COMPANY ADDRESS
1313 N. LINCOLN AVE.
PASADENA, CALIF. 91103
213 681-7416
TWX 910 588-3282
COMPANY REPRESENTATIVES
W A BROWN & ASSOCIATES, INC
1314 BUFORD STREET, N W
HUNTSVILLE, ALA. 35801
R F ASSOCIATES, INC.
1621 PONTIUS AVENUE
LOS ANGELES, CALIF. 90025
RF ASSOCIATES, INC
800 SAN ANTONIO ROAD
PALO ALTO, CALIF. 94303
KELLEY ENTERPRISES
336 E 4TH STREET
LOVELAND, COLORADO 80537
W A BROWN & ASSOCIATES, INC
222 WEBER AVENUE
ORLANDO, FLA. 32803
W A BROWN & ASSOCIATES, INC
3039 N E 32ND AVENUE
FT. LAUDERDALE, FLA. 33308
RIDGWAY ASSOCIATES, INC
3759 N HARLEM AVENUE
CHICAGO, ILLINOIS 60634
PENZNER ASSOCIATES, INC
P D BOX 4362
OVERLAND PARK, KANSAS 66204
CONNAUGHTON & COMPANY
18 BOWMELL ROAD
BRIGHTON, MASS. 02135
RIDGWAY ASSOCIATES, INC
7720 MORGAN AVENUE SOUTH
MINNEAPOLIS, MINNESOTA 55423
PENZNER ASSOCIATES, INC
BOX 26, CREVE COEUR STATION
ST. LOUIS, MO. 63141
CENTRAL ASSOCIATES, INC
44 N DEAN STREET
ENGLEWOOD, N.J. 07631
CENTRAL ASSOCIATES INC
11 COMMERCIAL STREET
PLAINVIEW, L.I., N.Y. 11803
J D RYERSON ASSOCIATES INC
P O BOX 1400
SYRACUSE, NEW YORK 13201
W A BROWN & ASSOCIATES, INC
440 WEST-END BLVD
WINSTON-SALEM, N.C. 27101
RIDGWAY ASSOCIATES
2400 E DOROTHY LANE
DAYTON, OHIO 45420
RIDGWAY ASSOCIATES, INC
22811 LORAIN ROAD
FAIRVIEW PARK, OHIO 44126
R K P ASSOCIATES
107 FORREST AVENUE
NARBERTH, PA. 19072
MITCHELL SPEARS COMPANY
4944 JAMES AVENUE
FORT WORTH, TEXAS 76115
MITCHELL SPEARS COMPANY
HOUSTON OFFICE CENTER
ROOM 109C
HOUSTON, TEXAS 77023
W A BROWN & ASSOCIATES, INC
325 FIRST STREET
ALEXANDRIA, VIRGINIA 22314
RAY JOHNSTON COMPANY, INC
1011 NORTHEAST 69TH STREET
SEATTLE, WASH. 98115
REPS. IN OTHER COUNTRIES
TOSHNIWAL BROS PRV LTD
198, JAMSHEDJI TATA ROAD
BOMBAY-1, INDIA
P O BOX NIMONBASHI
173 TOKYO JAPAN
WEN CHANG HONG
IMPORTERS & EXPORTERS
NO 23, CHUNG-CHENG ROAD
TAINAN, TAIWAN
SHOSHIN SHOJI KAISHA, LTD
P O BOX NIMONBASHI
173, TOKYO, JAPAN
DANIEL DELGAY S A
BOITE POSTALE 919
58A CHAUSSEE DE CHARLEROL
BRUSSELS, BELGIUM
OLTRONIX A/S
MALTGAARDEVEJ 18
GENTOFFTE, DENMARK
MEGEX
105 QUAI BRANLEY
PARIS 15E, FRANCE
TALCO-GESELLSCHAFT FUR MESS
UND FUNKTECHNIK
FRANZ - PUELTERSTRASSE 15
MUNICH 8, WEST GERMANY
C T LONDON LIMITED
27 ASHLEY PLACE

WESTMINSTER
LONDON, SW1, ENGLAND
SPECIAL-IND
VIA D MANIM 33
MILAN, ITALY
ELOFYSICA N V-AMSTERDAM
WETERINGSCHANS 120
AMSTERDAM-C, HOLLAND
TELEINSTRUMENT AB
P O BOX 14
VALLINGBY, SWEDEN
MEGEX-ZURICH CO., LTD
BADENERSTRASSE 588
ZURICH, SWITZERLAND
M KOCHN
P. O. BOX 1447
JERUSALEM, ISRAEL
BRH ASSOCIATES
P O BOX 214
STATION O
TORONTO, ONTARIO
BRH ASSOCIATES
6338 VICTORIA AVENUE
MONTREAL 26, QUEBEC
B W COULTER & COMPANY
BOX 4138, GPD
M 5 W, AUSTRALIA

DIALIGHT CORPORATION
SALES MANAGER
H. W. GOODMAN
BRAND NAMES
DIALCO
DIALTRON
COMPANY ADDRESS
60 STEWART AVE.
BROOKLYN, NEW YORK 11237
COMPANY REPRESENTATIVES
F W MOUTHTHROP & ASSOC
1530 E 12 STREET
OAKLAND, CALIF 94606
AN 1 7676
JACK BERMAN CO
1751 S LA CIENEGA BLVD
LOS ANGELES, CALIF 90035
UP 0 4711
HYDE ELECTRONICS CO
888 S LIPAN STREET
DENVER COLO 80223
936 3456
HILL & GRAY, INC
821 GARFIELD
OAK PARK, ILL 60304
ES 8 7050
CHARLES SEGEL CO
799 WASHINGTON STREET
NEWTONVILLE, MASS 02160
969 6900
R C MERCHANT & CO
18411 W MC NICHOLS
DETROIT, MICH 48219
535 6000
R G RAGON, INC.
1136 W LARPEUR AVENUE
ST PAUL, MINN 55113
488 6634
ROBERT HORNE ASSOC
235 WANAQUE AVE
POMPTON LAKES, N. J. 07442
835 7400
ARTHUR PERKINS CO
104 MIDTOWN PLAZA
SYRACUSE, N. Y. 13210
478 3523
L D LOWERY, INC
2801 W CHESTER PIKE
BROOMALL, PA 19008
EL 6 5300
CARTWRIGHT & BEAN
560 S COOPER
MEMPHIS, TENN 38104
BR 5 1914

DIAMOND ELECTRONICS
SALES MANAGER - CCTV
R H RENKO
COMPANY ADDRESS
P O BOX 415
LANCASTER, OHIO 43130
COMPANY REPRESENTATIVES
W. E. SANDERSON & ASSOC.
5045 N. 12TH STREET
PHOENIX, ARIZONA 85014
277-0077
KING ENGINEERING CO., INC.
15720 VENTURA BLVD.
SUITE #416
ENCINO, CALIF. 91316
981 0161
ROSS EQUIPMENT CO.
7015 WEST 88TH AVE.
WHEAT RIDGE, COLORADO 80033
303 422-1845
EQUIPMENT SALES CO., INC.
P O BOX 6098
NEW HAVEN, CONN.
INDUSTRIAL ELECTRONICS, INC.
1389 SPRING STREET, NW
ATLANTA, GA. 30309
404 873-5504
DELTA SALES, INC.
1407 N. ILLINOIS STREET
INDIANAPOLIS, IND. 46204
317 ME 1-4136
DELTA ASSOCIATES
2801 BROADWAY
NEW ORLEANS, LOUISIANA
504 522-8382
AMERICAN MICROWAVE COMM. INC
P O BOX 216
ALPENA, MICH.
356-1510
IMPALA, INC.
ROOM 3
47 VILLAGE SQ. SHOPPING CTR.
HAZELWOOD, MO.

314 JA 2-1600
SENECA AUDIO-VISUAL
1880 HERTEL AVE.
BUFFALO, N.Y. 14214
855-5600
SQUIRES, INC.
474 YEARLING ROAD
COLUMBUS, OHIO 43213
614 237-8635
MARCO ELECTRONICS INC.
4623 FIFTEENTH STREET
PHILADELPHIA, PA. 19140
DA 4-2820
J. E. WOOD CO.
FREEDOM ROAD
MARS, PA.
412 PR 6-1800
SOUND PHOTO EQUIPMENT CO.
2107 BROADWAY
LUBBOCK, TEXAS 79401
806 PD 3-1997
TAFT BROADCASTING CO.
4801 SAN FELIPE
HOUSTON, TEXAS
TECHNO-LINK, INC.
4922 ELLENSBURG DRIVE
DALLAS, TEXAS
214 AD 9-3452
BERKNESS CONTRL & EQUIPMENT
308 WEST CARY STREET
RICHMOND, VIRGINIA
703 643-5357
SEATRONICS, INC.
5931-4TH AVENUE, SOUTH
SEATTLE, WASH. 98108
206 PA 5-4328
PHOTOART VISUAL SERVICE
840-44 W. PLANKINTON AVE.
MILWAUKEE, WISC. 53203
271-2292

DIAMOND EXPANSION BOLT CO INC
DIV. OF GENERAL CABLE CORP
VP SALES
C. W. FUMRER
ASST. SALES MGR.
R. C. NEARING
COMPANY ADDRESS
500 NORTH AVENUE
GARWOOD, NEW JERSEY 07027
COMPANY REPRESENTATIVES
E W COURTNEY
336 RITCH STREET
SAN FRANCISCO, CALIF
415 781 2753
J WRIGHT
2170 DE FOOR HILLS RD NW
ATLANTA, GEORGIA
404 355 9727
O KUFFER
3402 N HARLEM AVENUE
CHICAGO
312 237 1106
L SMITH
25 WARREN STREET
NEW YORK CITY, N Y
212 BA 7 6647
R LEISINGER
2001 PREBLE AVENUE
PITTSBURGH, PA
412 322 4008
R B WILBER
106 EXPRESS STREET
DALLAS, TEXAS
214 RI 8 6145

DIERCRAFT, INCORPORATED
SUBSIO OF BAUSCH & LOMB
SALES MANAGER
W. P. OCONNOR
BRAND NAMES
RAYSCAN
COMPANY ADDRESS
SPARKS, MARYLAND 21152

DISPLAY TECHNOLOGIES, INC.
SUBSID TELEPRO INDUSTRIES, INC
SALES MANAGER
HERBERT NETTLETON
67 W 44TH STREET
NEW YORK, N Y
BRAND NAMES
FIDELIPAC
PORTA-TAPE
PORTA-STEREO
PROJECTOR
STUDENT RESPONDER
TELEPRO
TELE PROMPTER
TV BLUE
WEATHERS
COMPANY ADDRESS
CHERRY HILL, N. J. 08034

DRESSER-CRANE HOIST & TOWER DIV
ONE OF THE DRESSER INDUSTRIES
SALES MANAGER
R. O. SLOAD
875 MICHIGAN AVE
COLUMBUS, OHIO 43215
BRAND NAMES
CANDELABRA-R
DRESSER
COMPANY ADDRESS
2314 REDNOO BEACH BLVD
GARDENA, CALIF. 90247
COMPANY REPRESENTATIVES
JOHN F MC VEY, JR
MGR - WESTERN DIVISION
2314 REDONDO BEACH BLVD
GARDENA, CALIF
321 9850
W. ROBERT MCKINNEY
J. ROGER HAYDEN
J. K. GROSECLOSE
875 MICHIGAN AVE.

COLUMBUS, OHIO 43224
614 299-2123

DUOTONE COMPANY INC
SALES MANAGER
STEPHEN NESTER
BRAND NAMES
DUOTONE
DUOTAPE
DUODISC
COMPANY ADDRESS
6875 S W 81ST STREET
SOUTH MIAMI, FLA. 33143
COMPANY REPRESENTATIVES
LOGAN SALES
463 BREWSTER AVENUE
REDWOOD CITY, CALIF 94063
415 369-6726
ROSS SALES CO
5007 LANKERSHIM BLVD
NORTH HOLLYWOOD, CALIF
766-8109
NELSON COMPANY INC
1294 SOUTH BANNOCK
DENVER, COLORADO 80223
303 733-5528
WINFIELD ELECTRONIC SALES CO
666 N E 125TH STREET
NORTH MIAMI, FLORIDA
PL 1-5566
PAUL HAYDEN ASSOCIATES
P O BOX 331
EAST POINT, GEORGIA
404-PO6-0261
MICHAEL ZINOELL
6434 N WASHTENAW AVE
CHICAGO 45 ILL
312 BR 4-7175
CHARLES SCHEFFLER CO
1133 MAVAJO TRAIL, RR 14
INDIANAPOLIS, INO 46260
317 CL3-6337
ALBERT N REINHERZ
59 HAMILTON RDAD
BELMONT 78, MASS.
617 484-7784
CARLEM COMPANY
1926 WELLESLEY AVE
ST. PAUL, MINN 55105
612 699-8004
KELLY-SCHMITZ-WINKELER ASSOC
7546 TROOST AVENUE
KANSAS CITY, MISSOURI
816 EM3-5651
THE NEWHOPE CORPORATION
6 EAST 39TH STREET
NEW YORK, NEW YORK 10016
212 532-7372
MAURY FARBER ASSOCIATES
203 JACKSON BUILDING
220 DELAWARE AVENUE
BUFFALO, NEW YORK
716 TL6-3543
MELCO SALES CO INC
74 FIFTH AVENUE
NEW YORK, NEW YORK 10011
212 AL5-8850
SINGER PRODUCTS CO INC
95 BRAD ST
NEW YORK N Y
212 WH4-8700
PERRY LOHSE & CO
529 RICHMOND RD
CLEVELAND 24, OHIO
381-7788
JOHN MUSTICO CO.
BOX 624- 206 BENLEY ROAD
HAVERTON, PA.
215 HI6-1961
THE TEXPORT COMPANY
2411 FARRINGTON STREET
DALLAS, TEXAS 75207
214 ME1-6270
JAMES J BACKER CO.
221 W GALER ST
P O BOX 9077
SEATTLE 99 WASH
206 AT3-6470

DYANCOOL MANUFACTURING
COMPANY INC
SALES MANAGER
FRANK STANGARONE
COMPANY ADDRESS
1 RUSSELL STREET
SAUGERTIES, NEW YORK 12477
COMPANY REPRESENTATIVES
R J MC CARDLE
40 TANNER STREET
HADDONFIELD, N.J.
609 429 8895
TOM MARDIN
315 SOUTHFIELD RD
FAYETTEVILLE, N.Y.
315 446 9280

DYNAMIR ELECTRONICS, INC
SALES MANAGER
DWAYN A. KELLER
COMPANY ADDRESS
6360 FEDERAL BOULEVARD
SAN DIEGO, CALIF. 92114

DYNASCIENCES CORPORATION
SALES MANAGER
CHARLES E. IRVIN
BRAND NAMES
DYNALENS
DYNASCIENCES
COMPANY ADDRESS
TOWNSHIP LINE RDAD
BLUE BELL, PA 19422
COMPANY REPRESENTATIVES
ALBION OPTICAL CO
15 W VIRGINIA AVE
WEST MYACK, N.Y. 10994
914 EL 8 4450

FASTMAN KODAK COMPANY
NOTION PICTURE AND EDUCATION
MARKETS DIVISION
K. M. MASON - SLS MGR
N Y SALES & ENGINEERING OFC
200 PARK AVENUE
NEW YORK, NEW YORK 10017
212 MU 7 7080
E. M. STIFLE - SLS MGR
CHICAGO SALES & ENGR. OFC.
130 EAST RANDOLPH DRIVE
CHICAGO, ILLINOIS 60601
312 236 7234
W. L. FARLEY, JR. - SLS MGR
HOLLYWOOD SALES & ENGR. DFC.
6677 SANTA MONICA BLVD
HOLLYWOOD, CAL. 90038
213-464-6131
BRAND NAMES
KODAK
FASTMAN
EXECUTIVE OFFICE ADDRESS
343 STATE STREET
ROCHFESTER, NEW YORK 14650
FILM DISTRIBUTION CENTERS
R GRANT
3250 VAN NESS AVE
SAN FRANCISCO, CALIF 94119
415 PR 6 6055
E MYLER
5315 PEACHTREE INOSTR BLVD
CHAMBLEE, GA 30005
404 GL 7 5711
R URRAN
6100 CEDAR SPRINGS RD
DALLAS, TEXAS 75235
214 FL 1 3221

EIOSOM ELECTRONIC COMPANY
SALES MANAGER
MERRILL EIDSON
COMPANY ADDRESS
1902 N. THIRD ST
TEMPLE, TEXAS 76001
817-PR3-3901

EIMAC DIVISION
DF VARIAN ASSOCIATES
SALES MANAGER
GEORGE M W BADGER
DIVISIONS & SUBSIDIARIES
DF VARIAN ELECTRON
ELECTRON TUBE AND
OEVICE GROUP
BOMAC DIVISION
SALEM ROAD
BEVERLY, MASS. 01915
617 922-6000
TWX 617 922-1987
CALIFORNIA AVE. OPERATION
601 CALIFORNIA AVENUE
PALO ALTO, CALIF. 94304
415 326-4000
TWX 415 492-9253
LEL DIVISION
AKRON STREET
COPIAGUE, L.I., N.Y. 11726
516 264-2200
TWX 516 691-5085
NATIONAL ELECTRONICS, INC.
A VARIAN SUBSIDIARY
GENEVA, ILL. 60134
312 232-4300
TWX 312 232 0590
PALO ALTO TUBE DIVISION
611 HANSEN WAY
PALO ALTO, CALIF. 94304
415 326-4000
TWX 415 492-9253
S-F-D LABORATORIES, INC.
A VARIAN SUBSIDIARY
800 RAHWAY AVENUE
UNION, N.J. 07083
201 687-0250
TWX 201 687-0333
VARIAN ASSOC. OF CANADA, LTD.
45 RIVER ROAD
GEORGETOWN, ONTARIO
416 877-6901
TWX 002-95628
COMPANY ADDRESS
301 INDUSTRIAL WAY
SAN CARLOS, CALIF 94070
592 1221
TWX 415 594 8842
SALES OFFICES
TUBE & DEVICE GROUP
OF VARIAN ASSOCIATES
77 THIRD AVENUE, WEST
SCOTTSDALE, ARIZONA 85251
602 947-5461
TWX 602 949-0165
2901 WILSHIRE BLVD
SANTA MONICA, CALIF
213 451 5877
TWX 213 468-1166
435 HARBOR BLVD.
BELMONT, CALIF. 94002
415 592-1841
TWX 415 594-8884
314 SOUTH MISSOURI
CLEARWATER, FLA. 33516
813 446-8513
TWX 813 442-2270
3110 MAPLE DR N E
SUITE 103
ATLANTA, GA 30305
404 261 4572
TWX 404 231 4881
EXECUTIVE PLAZA OFFICE BLDG.
205 W. TOWHY AVENUE
PARK RIDGE, ILL. 60068
312 825-6686
TWX 312 825-3334
400 WYMAN STREET
WALTHAM, MASS. 02154

617 891-4560
TWX 617-894-8594
2005 RDUTE 22
CDRNER FAIRWAY DRIVE
UNION, N.J. 07083
201 688-8800
TWX 201 687-9514
1500 KINGS HIGHWAY
CHERRY HILL, N.J., 08034
609 428-6800
TWX 609 429-4105
847 JAMES STREET
SYRACUSE, N.Y., 13203
315 472-7051
TWX 315 477-1240
SOUTHMOOR BUILDING
10 SOUTHMOOR CIRCLE
DAYTON, OHIO 45429
513 298-7318
TWX 513 944-0546
FIRST BANK & TRUST BLDG.
P O BOX 689
RICHARDSON, TEXAS 75081
214 235-2385
TWX 214 231-1403
1678 SOUTH PIONEER ROAD
SALT LAKE CITY, UTAH
801 487 7561
714 CHURCH STREET
ALEXANDRIA, VIRGINIA 22314
703 549-8205
TWX 703 931-4210

EITEL ELECTRONICS
SALES MANAGER
GEORGE E. EITEL
BRAND NAMES
EITELCO
COMPANY ADDRESS
P O BOX 830
211 E SHELTON
PRESCOTT, ARIZONA 86301
602 445 0691

ELECTROLINE TELEVISION
EQUIPMENT INC
PRESIDENT
MAURICE OLDFAN
980 NE 170 ST
N MIAMI BEACH, FLA 33161
305 949 0933
COMPANY ADDRESS
BOX 324
ULETA, FLA 33164
COMPANY REPRESENTATIVES
JEROME GUARDINO
16 EAST 23RD STREET
NEW YORK, N.Y., 10010
212 OR 3-5670
REPS. IN OTHER COUNTRIES
HENRY PALL
DOMINION SQUARE BLDG.
MONTREAL, QUEBEC
514 878-9489

ELECTRONIC LIGHTS, INC
SALES MANAGER
JAMES V. DANIELS
BRAND NAMES
SURGELITE
STROBELITE
COMPANY ADDRESS
1713 NORTH ASHLAND AVE
CHICAGO, ILL 60622

ELECTRONIC MOBILE UNITS
COMPANY ADDRESS
788 PATERSON AVE
EAST RUTHERFORD, N J
201 933 3555

ELECTRONIC RESEARCH COMPANY
SALES MANAGER
H. M. DANZIG
COMPANY ADDRESS
10000 WEST 75TH STREET
OVERLAND PARK, KANSAS 66204
COMPANY REPRESENTATIVES
WM J PURDY CO
312 SEVENTH ST
SAN FRANCISCO, CALIF
415 863 3300
SHEPARD WINTERS CO
4109 BURBANK BLVD
BURBANK, CALIF
213 849 6671
STAN PIERCE, INC
115 BALD HILL ROAD
NEW CANAAN, CONN
203 966 4630
ORBE, INC
300 31ST ST N, SUITE 439
ST PETERSBURG, FLA
813 894 0687
ORBE, INC
1020 GREGORY DR
MAITLAND, FLA
305 424 0978
ORBE, INC
476 LORIDANS DR, NE
ATLANTA, GA
404 233 6453
WHITMORE ASSOCIATES, INC
4750 N MILWAUKEE
CHICAGO, ILL
312 286 2442
FLORENCE & MEYER, INC
2900 WOODLAND
WICHITA, KANSAS
316 TE 8 7226
HARRY J WHITE CO
320 HILLEN RD
TOWSON, MD 21204
301 VA 8 6373
STAN PIERCE, INC

24 LINDEN ST
NORWOOD, MASS 02062
617 762 3164
FLORENCE & MEYER, INC
406 W 34TH ST
KANSAS CITY, MO
816 LD 1 7282
FLORENCE & MEYER, INC
BDX 5806
BERKLEY, MO 63134
316 JA 1 6800
COMP TECH SALES
BDX 50
RIVERDALE, N J 07457
201 835 0332
INTERNATIONAL ELECTRO-COMP CO7
BOX 353
PINE BROOK, N J 07058
201 335 1822
HARRY J WHITE CO
801 W MARLTON PIKE
CHERRY HILL, N J
609 428 2304
COMP TECH SALES
BOX 384
LYNBROOK, N Y 11563
516 593 2628
LAWRENCE SALES CO
BOX 1038
RICHARDSON, TEXAS
214 AD 5 5504
REPS IN OTHER COUNTRIES
ELECTROESIGN, LTD
9124 ST LAWRENCE BLVO
MONTREAL, QUEBEC
514 389 5914

ELECTRONICS ESSENTIALS

OF CCC, INC.
PRESIDENT
JOSEPH V MITCHELL
BRAND NAMES
VERAVOX
ARHC
COMPANY ADDRESS
4424 FURMAN AVE
BRONX, N Y 10466

EMCEE -
ELECTRONICS, MISSILES,
COMMUNICATIONS, INC
SALES MANAGER
GARR JOHNSON
BRAND NAMES
EMCEE
COMPANY ADDRESS
160-E-3 STREET
MT. VERNON, NEW YORK

ELECTRONIC SYSTEM ENGINEERING
SALES MANAGER
A. A. KAMINSKINE
BRAND NAMES
LIMPANDER
SPEEDMASTER
COMPANY ADDRESS
120 1/2 N CLEVELAND
CUSHING, OKLAHOMA 74023

ELECTRO PRODUCTS
LABORATORIES, INC
SALES MANAGER
R. H. NOVIC
BRAND NAMES
ELECTRO
COMPANY ADDRESS
6125 W. HOWARD
CHICAGO, ILLINOIS 60648
COMPANY REPRESENTATIVES
HYDE ELECTRONICS CO, INC
4710 N 16TH ST, SUITE 109
PHOENIX, ARIZ
602 264 5609
CARTER & ROSSNEY ASSOC
2600 W OLIVE AVE
BURBANK, CALIF
213 843 3292
LOGAN SALES CO
463 BREWSTER AVE
REDWOOD CITY, CALIF
415 369 6728
HYDE ELECTRONICS CO, INC
888 S LIPAN ST
DENVER, COLO
303 936 3456
COAKLEY, BOYD & ABBETT, INC
6 GAYWOOD DR
WATERBURY, CONN
203 756 8766
MURPHY & COTA
712 W VASSAR AVE
ORLANDO, FLA
305 424 2167
MURPHY & COTA
586 ARMOUR CIRCLE, N E
ATLANTA, GA
404 875 2525
GETTLEMAN & LITTEKEN CO
3736 DEMETER ST
SKOKIE, ILL
312 588 0030
FISHMAN ASSOCIATES
2060 E 54TH ST UNIT # 1
INDIANAPOLIS, IND
317 251 2401
COAKLEY, BOYD & ABBETT, INC
1424 HIGHLAND AVE
NEEDHAM, MASS
617 444 5470
DAVID MILSK CO
20110 OLYMPIA AVE
DETROIT, MICH
313 535 4012
A J WARNER CO
5022 29TH AVENUE S

MINNEAPOLIS, MINN
612 729 7371
PAUL G SCHOLZ CO
7309 E 109 TERRACE
KANSAS CITY, MO
816 761 6522
HYDE ELECTRONICS CO, INC
5206 CONSTITUTION AVE N E
ALBUQUERQUE, N M
505 265 8895
CALLBAKKE-FERGUSON CO
107 GREENHEDGE DR
CAMILLUS, N Y
315 488 5518
MURPHY & COTA
P O BOX 6365
GREENSBORO, N C
919 273 6288
LES A MORROW CO
3123 W 117TH ST
CLEVELAND, OHIO
216 251 5700
JOHN MUSTICO CO
312 BEWLEY ROAD
HAVERTOWN, PA
215 446 1961
JAMES H PODOLNY CO
5912 PENN AVE
PITTSBURGH, PA
412 441 0800
THE TEXPOR CO
5104 CAPEN ST
MEMPHIS, TENN
901 682 4777
THE TEXPOR CO
2411 FARRINGTON ST
DALLAS, TEXAS
214 631 6270
THE TEXPOR CO
8811 GAYLOR ROOM 206
HOUSTON, TEXAS
713 464 3031
HYDE ELECTRONICS CO, INC
3081 DELSA DR
SALT LAKE CITY, UTAH
801 278 4465
DOM SMITH SALES CO
2320 N 45TH ST
SEATTLE, WASH
206 633 3160
STEVE FISHER SALES CO
121 CEDAR LANE
TEANECK, NEW JERSEY
201 836 6661

ELECTRO-SOUND ACOUSTICS,

DIVISION OF RAYCO SOUND CO
SALES MANAGER & PRESIDENT
RAYMOND L. IHNDRIIS
BRAND NAMES
ESA
PRO-CLASSIC
FUGISTANCE
ELECTRO-SOUND ACOUSTICS
COMPANY ADDRESS
128 WHITMOOR TERRACE
SILVER SPRING, MARYLAND 20901
301 593 6455
COMPANY REPRESENTATIVES
BETTER ELECTRONICS CO
7114 WOODLAND AVE
TAKOMA PARK, MD 20012
301 589 8610

ELECTROVERT INC

SALES MANAGER
F. J. FARRELL
BRAND NAMES
CRADLECLIP
SPIROBAND
GROMMET STRIP
COMPANY ADDRESS
86 HARTFORD AVE
MT. VERNON, NEW YORK 10553
COMPANY REPRESENTATIVES
CONSTRUCTION SPECIALTIES
10 EAST SECOND STREET
SCOTTSDALE, ARIZONA
CLIFFORD L WOOLSEY
1029 N BRIGHTON ST
BURBANK, CALIF 91506
213 849 5341
J A WAUGAMAN ASSOC INC
2785 NORTH SPEER
DENVER, COLO 80211
303 292 3926
H R GROSS & CO
314 SOUTH MISSOURI AVE
P O BOX 1427
CLEARWATER, FLA 33517
813 446 6649
LOUIS E BRUNS CO
2210 NORTH 50TH TERRACE
KANSAS CITY, KANSAS
913 289 5242
ANSELL ENGINEERING CO
816 THAYER AVE
SILVER SPRING, MD
301 588 4222
CONTACT ASSOCIATES
7 CYPRESS DRIVE
BURLINGTON, MASS
617 272 5051-2-3
MURRAY A PERCIVAL CO
22511 SOUTHFIELD ROAD
SOUTHFIELD, MICH 48075
313 356 5710
WOOD CLEMONS CO
6701 PENNSYLVANIA AVE SO.
MINNEAPOLIS 23, MINN
612 866 3401
LOUIS E BRUNS CO
514 PARKWOOD AVE
KIRKWOOD, MISSOURI
J P DEARIE CO
P O BOX 66

MOUNTAIN LAKES, N J
201 334 4848
J B CLOUGH CO
4614 PROSPECT AVE
CLEVELAND, OHIO
216 431 2700
J B CLOUGH CO
3035 PORTSMOUTH AVE
CINCINNATI, OHIO
513 321 0478
HILLIARD ASSOCIATES
766 OLD YORK ROAD
JENKINTOWN, PENN
215 884 6100
WALTER N LASKA
530 SIXTH AVE
PITTSBURGH, PENN
412 471 0490
MORRIS SALISS
P D BOX 464
ROOSEVELT, PUERTO RICO
PHIL J SCANLON CO
P O BOX 70
RICHARDSON, TEXAS 75081
214 231 4661
DWHIGHT SMITH ASSOC
32 SOUTH RIVER STREET
AURORA, ILL 60504
315 896 0828
BILL WADDELL CO
10211 N.E. 31ST PLACE
BELLEVUE, WASH
206 822 3660

ELECTRO-VOICE, INC

VP SALES
LAWRENCE LEKASHMAN
BRAND NAMES
ARISTOCRAT R
CARDLINE R
ACOUSTIFOAM
ACOUSTALLOY R
CDP R
SONOCASTER
CY-D
STEREON R
FEATHERIDE R
LINE RADIATOR
SONOPHASE
SOUND SPOT R
MICHIGAN
MUSICASTER
RADAX
PATRICIAN R
POWER POINT
SENTRY
SUPER-SONAX
VARIABLE-D R
WOLVERINE R
COMPANY ADDRESS
638 CECIL STREET
BUCHANAN, MICHIGAN 49107
616 695 6833
COMPANY REPRESENTATIVES
EDWARD CAIN
3258 CAHABA HEIGHTS ROAD
BIRMINGHAM, ALABAMA 35243
205 967 3080
DICK BELLEW SALES COMPANY
1005 WEST 4TH STREET
EL DORADO, ARKANSAS
501 UN 3 8325
JACK CARTER
DICK SCHNEPP
2600 W OLIVE
BURBANK, CALIFORNIA 91505
213 843 3292
MEYER, ROSS & FLEMING
113 TENTH STREET
SAN FRANCISCO, CALIFORNIA
415 RA 10652
MC LOUD & RAYMOND
2151 S GRAPE STREET
P O BOX 22044
DENVER, COLORADO
303 756 1589
JOSEPH F HELLAUER, JR
46 ROCKEFER AVENUE
WEST HAVEN, CONNECTICUT 06516
203 923 0261
JACK SPROCH
3520 W BROWARD BOULEVARD
FT LAUDERDALE, FLA 33312
305 587 3792
MAYLAND K SMITH COMPANY
31 16TH STREET NW
ATLANTA, GEORGIA 30309
404 875 8031
RILL KOLANS & COMPANY
P O BOX 2098, 158 NOKAUEA
HONOLULU, HAWAII
811 628
J D BOSWELL SALES
25 PINE TRAIL
CANEYVILLE, ILLINOIS 62232
314 GE 6 2042
GENE CLEARS
20200 ASHLAND AVE
CHICAGO HEIGHTS, ILL
312 755 0055
HARRISON BLIND & ASSOCIATES
1635 GENT STREET NORTH
INDIANAPOLIS, INDIANA 46202
317 WE 5 6291
ELECTRONIC SALES CO
1310 HERTZ DRIVE, SE
CEDAR RAPIDS, IOWA 52403
319 364 4342
DICK BELLEW, JR
5042 D ST, ANTHONY AVE
NEW ORLEANS, LOUISIANA 70122
504 282 9629
DAVE BROTHERS
6302 LINCOLN AVENUE
BALTIMORE, MARYLAND
301 RO 4 7189

JOE RADIMAK
1808 GLEN RIDGE ROAD
DOWSON, MARYLAND
301 661 0713
MICHAEL SCOTT & COMPANY
336 WASHINGTON
WELLESLEY HILLS, MASS
617 CE 5 0102
RICHARD FLORA
294 MONEY CREEK AVENUE
ADA, MICHIGAN
616 676 1854
RILEY & PETCHELL
ELECTRONIC SALES
13209 FENKELL
DETROIT, MICHIGAN
313 VE 8 9100
RAY RIPLEY & ASSOC
6838 PILLSBURY AVE SO
MINNEAPOLIS, MINNESOTA
612 UN 6 8182
CHARLES SMITH
813 FORDHAM ROAD
RIVERSIDE, NEW JERSEY
609 MO 1 4581
M & S ASSOCIATES - MILITARY
P O BOX 185
HADDONFIELD, NEW JERSEY
609 HA 9 7055
CARDUMER SALES CORPORATION
P O BOX 900
WESTBURY, NEW YORK
516 333 8170
GORDON LE ROY
ORCHARO PARK
PHELPS, NEW YORK
315 548 4891
JAMES SCHMITTER
109 EASTON AVENUE
BUFFALO, NEW YORK
716 892 6551
DAVID E COON
218 EAST LAKE ROAD
OE RUYTER, NEW YORK
315 852 3374
JAMES CLYMER, JR
1605 CHATHAM AVENUE
CHARLOTTE, N CAROLINA
704 FR 6 5951
C L PUGH COMPANY
2144 RIVERSIDE DRIVE
COLUMBUS, OHIO 43221
614 486 9678
GEORGE CONNEEN
131 HARNED ROAD
SPRINGFIELD, OELAWARE CO, PA
215 543 8641
ELECTRO VOICE TENNESSEE
RANKIN ROAD
NEWPORT, TENNESSEE
615 623 2356
EDWARD MILLER
SUITE 251, MELSHIRE BLDG
1450 PRESTON FOREST SQUARE
DALLAS, TEXAS 75230
214 AD 9 3789
HUGH PUTMAN
914 WATEKAWAY
RICHARSON, TEXAS
214 AD 1 4353
JIM HANKOCK
6022 WIGTON
HOUSTON, TEXAS 77035
713 PA 9 0824
WM R LANPHEAR SALES
4031 STONEMAN AVE, NORTH
SEATTLE, WASHINGTON 98103
206 ME 3 4900
REPS IN OTHER COUNTRIES
ELECTRO TEC MARKETERS
1624 W THIRO STREET
VANCOUVER, B C
604 RE 6 6377
R C KAHNERT
359 ENFORD ROAD
RICHMOND HILLS, ONTARIO
416 886 4574
AURELE DES JARONIES
P O BOX 885
MONTREAL, QUEBEC
514 677 5033

THE ELMOR COMPANY
SALES MANAGER
S. WEINER
BRAND NAMES
GALLET
GALCO
GUINANO
SECURITY
COMPANY ADDRESS
29 E. MADISON ST
CHICAGO, ILLINOIS

ENCLOSURE CORP
PRESIDENT
R. D. EDELMAN
COMPANY ADDRESS
1701 INDUSTRIAL BLVD.
PENNAPOLIS, N. J. 08110
COMPANY REPRESENTATIVES
LEE ASSOCIATES
8100 S MEMORIAL PARKWAY
HUNTSVILLE, ALABAMA
205 881 0461
LEE ASSOCIATES
200 E MARKS STREET
ORLANDO, FLA
305 241 4445
LEE ASSOCIATES
12250 WILKINS AVENUE
ROCKVILLE, MARYLAND
301 949 48DD
MECHANICAL MARKETING ENG
20 CONGRESS AVENUE
CHELSEA, MASSACHUSETTS

617 889 2279
LEE ASSOCIATES
432 WEST END BOULEVARD
WINSTON-SALEM, NORTH CAROLINA
919 724 2406
C E SNOW
613 CHELTENHAM AVENUE
PHILADELPHIA, PENNSYLVANIA
215 CA 4 2626

ENGINEERING ASSOCIATES
COMPANY ADDRESS
434 PATTERSON ROAD
DAYTON, OHIO 45419
OFC AX3-1662 LAB AX 3-1462

ENGLISH ELECTRIC VALVE DIVISION
THE ENGLISH ELECTRIC CORP
COMPANY ADDRESS
ONE PARK AVE
NEW YORK, N Y 10016
DIRECT ALL INQUIRES
AS INDICATED
SOLE U S DISTRIBUTOR FOR
IMAGE-ORTHICON & VIDICON
CAMERA TUBES
VISUAL ELECTRONICS CORP
356 WEST 40TH ST
NEW YORK, N Y 10018
SOLE U S DISTRIBUTOR FOR
VACUUM TUBES, TRANSMITTING
CALVERT ELECTRONICS, INC
220 EAST 23RD STREET
NEW YORK, N Y 10010

ENTRON, INC
SALES MANAGER
JOHN RUSSELL
COMPANY ADDRESS
2141 INDUSTRIAL PKWY
SILVER SPRING, MARYLAND 20904
COMPANY REPRESENTATIVES
PAUL MC INNISH
231 B STOKES STREET
HUNTSVILLE, ALABAMA 35805
205 536 7259
WILLIAM JONES
3706 MONTGOMERY DRIVE
SANTA ROSA, CALIF 95404
RAY LA RUE
ATLANTA, GEORGIA 30319
404 634 4089
WILLIAM SAILOR
4983 HARBOR BOULEVARD
COLUMBUS, OHIO 43227
614 837 2259
ROBERT TAYLOR
P O BOX 1037
RICHARSON, TEXAS 75080
214 AD 5 7472
REPS IN OTHER COUNTRIES
OMER GIRARO
15 O ST PATRICE STREET
MAGOG, QUEBEC

ELECTRONIC MARKETING DIVISION
ESSEX WIRE CORPORATION
SALES MANAGER
DON ABERDEEN
BRAND NAMES
STANCOR
RBM
COMPANY ADDRESS
3501 W. MADISON
CHICAGO, ILLINOIS 60618
463 7400
SALES OFFICES
444 CAMELBACK ROAD WEST
PHOENIX, ARIZONA 85017
602 264 3578
112 GLASGOW AVENUE
INGLEWOOD, CALIFORNIA 90301
213 678 4711
165 ELEVENTH STREET
SAN FRANCISCO, CALIF 94103
415 863 7880
721 SOUTH BROADWAY
DENVER, COLORADO 80209
303 725 4661
3308 14TH STREET, NW
WASHINGTON, D C 20010
202 265 3938
1010 EXECUTIVE CENTER DRIVE
ORLANDO, FLORIDA 32803
305 241 5401
3098 PIEDMONT ROAD, NE
ATLANTA, GEORGIA 30305
404 261 5838
156 MOKAUEA
HONOLULU, HAWAII 96803
815 649
309 AVONDALE DRIVE
EAST PERIA, ILLINOIS 61611
309 699 3301
349 NORTH ASHLAND AVENUE
RIVER FOREST, ILLINOIS 60305
312 261 0342
1605 K AVENUE, NE
CEDAR RAPIDS, IOWA 52402
319 362 7825
5450 BUENA VISTA DRIVE
SHAWNEE MISSION, KANS 66205
913 432 2131
1812 BULLARD AVENUE
METAIRIE, LOUISIANA 70003
504 887 0482
5500 HARFORD ROAD
BALTIMORE, MARYLAND 21214
301 254 3380
336 WASHINGTON STREET
WELLESLEY HILLS, MASS D2181
617 235 D102
23529 WOODWARD AVENUE
FERNDALE, MICHIGAN 48220
313 547 4771
5364 KIMBALL AVENUE, SE

GRAND RAPIDS, MICHIGAN 49508
616 243 7606
3749 WEST BRADWAY
MINNEAPOLIS, MINNESOTA 55422
612 588 4663
47 VILLAGE SQUARE
HAZELWOOD, MISSOURI 63042
314 838 6446
2611 QUINCY STREET, NE
ALBUQUERQUE, NEW MEX 87110
505 265 1579
496 ELLICOTT SQUARE BUILDING
BUFFALO, NEW YORK 14203
716 854 2517
311 MEACHAM AVENUE
ELMONT, LI, NEW YORK 11003
516 437 8150
431 GREENWICH STREET-EXPORT
NEW YORK, NEW YORK 10013
212 966 2130
6717 WOODSTOCK DRIVE
CHARLOTTE, NO CAROLINA 28210
704 523 3327
150 EAST BROAD STREET
COLUMBUS, OHIO 43215
614 221 3363
510 N W 19TH AVENUE
P O BOX 2827
PORTLAND, OREGON 97208
503 226 4184
1531 SPRUCE STREET
PHILADELPHIA, PENN 19102
215 545 1205
106 NELBON AVENUE
PITTSBURGH, PENN 15235
412 241 7025
560 S COOPER STREET
MEMPHIS, TENNESSEE 38104
901 274 4442
2930 MERRELL ROAD
OALLAS, TEXAS 75220
214 357 4601
4810 HAZARO
HOUSTON, TEXAS 77006
713 529 3811
31 SOUTH THIRD, EAST
SALT LAKE CITY, UTAH 84111
801 364 4632
422 FIRST AVENUE, WEST
P O BOX 9285
SEATTLE, WASHINGTON 98119
206 284 1121
928 EAST WISCONSIN AVENUE
PEWAUKEE, WISCONSIN 53072
414 691 0622

EUPHONICS MARKETING
SALES MANAGER
HOWARD SOUTHER
BRAND NAMES
MINICONIC
COMPANY ADDRESS
173 W. MADISON ST
CHICAGO, ILLINOIS 60602

E-Z-HOOK TEST PRODUCTS
SALES MANAGER
ROBERT N YOUNGER
BRAND NAMES
E-Z-HOOK
COMPANY ADDRESS
1536 WOODBURN AVE
COVINGTON, KY 41012
COMPANY REPRESENTATIVES
ASH M. WOOD CO.
P O BOX 1158
ARCADIA, CALIF.
AT 7-0449 AND CU 3-1201
ROYAL A. STEHM CO.
662 IRVING PARK RD.
CHICAGO, ILL.
LA 5-8333
REPS IN OTHER COUNTRIES
LEN FINKLER LTD.
2 TYCOS DRIVE
TORONTO 19, ONTARIO
416 781-5231

FAIRCHILD RECORDING EQUIPMENT CORPORATION
SALES ADMINISTRATOR
M. P. MCLAUGHLIN
BRAND NAMES
AUTO-TEN
BALANCE/GARD
TRANS/GARD
BASS-X
COMPATILIZER
CONAX
DYNALIZER
INTEGRA
LIMITEN
MTIS
REVERBERTRON
COMPANY ADDRESS
10-40 45TH AVENUE
LONG ISLAND CITY, N Y 11101
SALES REPRESENTATIVES
WORLD WIDE PRODUCTS CO
BOX 429
N MIAMI BEACH, FLA
LOREN GREEN ASSOCIATES
5218 W DIVERSEY AVE
CHICAGO, ILLINOIS
MARTIN VOGT
2817 BAWLET ROAD
ROYAL OAK, MICHIGAN
BEN JOSEPH ASSOCIATES
BOX 486
GREAT NECK, LI, NEW YORK
H H SEAY COMPANY
3850 FAIRLINGTON DR
COLUMBUS, OHIO
ANTLE SMITH SALES CO
2721 BROOKFIELD AVE

DALLAS, TEXAS
WILLIAM K WOOD CD
5908 CALIFORNIA AVE
SEATTLE, WASHINGTON

THE FINNEY COMPANY
SALES MANAGER
TOM PFEIFFER
BRAND NAMES
FINCO
COMPANY ADDRESS
34 W. INTERSTATE ST.
BEDFORD, OHIO 44014

F & M SYSTEMS CO, DIVISION OF FISCHBACH & MOORE, INC
MARKETING MANAGER
M. C. BAIRD, JR.
COMPANY ADDRESS
2525 WALNUT HILL LANE
DALLAS, TEXAS 75220
COMPANY REPRESENTATIVES
J MORRIS
646 NORTH BEACHWOOD DRIVE
LOS ANGELES, CALIF 90004
213 466 2151
J DOUGLAS AMO
H ALSOP
1019 22ND ST. N W
WASHINGTON, D.C. 20037
202 333-0800
J LUTRELL
2525 WALNUT HILL LANE
DALLAS, TEXAS 75220
214 CH 1 2121

FISHER BERKELEY CORPORATION
SALES MANAGER
RAMP BRUSH
BRAND NAMES
EKATCOM
COMPANY ADDRESS
1475 POWELL STREET
EMERYVILLE, CALIF. 94608
COMPANY REPRESENTATIVES
ELLARD E STRASSNER CO
3121 LOS FELIZ BLVD
LOS ANGELES, CALIF
213 666 1511
JIM PIPER ASSOCIATES
10 HAVEN ST
DOVER, MASS
617 449 1144
CLARK R GIBB CO
2400 HENNEPIN AVENUE
MINNEAPOLIS, MINN
612 FR 7 1200
ROBERT FINLAY SALES CO
45 NORTH BROAD ST
RIDGEWOOD, N J
201 652 0088
JOHN O OLSEN CO
16201 SHAKER BLVD
CLEVELAND, OHIO
216 752 5444
WILLIAM L METCALFE
116 W FRANKLIN
CENTERVILLE, OHIO 45459
513 885 3722
RICHARD A STONE
1843 MANDELL ST
PITTSBURGH 16, PA
412 341 8391
TECHNO ASSOCIATES
P O BOX 20544
DALLAS, TEXAS
214 FL 7 9213

HERB FITZGERALD COMMUNICATIONS ELECTRONICS
SALES MANAGER
HERB FITZGERALD
COMPANY ADDRESS
635 E. 185TH ST.
CLEVELAND, OHIO 44119

THE JAMES FLOYD FORD COMPANY
GENERAL MANAGER
COMPANY ADDRESS
JFFCO BUILDING P.O.DRWR 839
CAPE GIRARDEAU, MO. 63701
314-334-6308
COMPANY REPRESENTATIVES
JAMES FLOYD FORD CO
BOX 761
CHICO, CALIFORNIA 95926

FORT WORTH TOWER CO, INC
PRESIDENT
T. W. MOORE
COMPANY ADDRESS
5201 BRIDGE ST PO BOX 8597
FORT WORTH, TEXAS 76112
817 536 5676
COMPANY REPRESENTATIVES
A C TILTON
5201 BRIDGE ST
FORT WORTH, TEXAS
817 536 5676

GAMMA SCIENTIFIC, INCORPORATED
SALES MANAGER
HAROLD P. FIELD
COMPANY ADDRESS
5841 MISSION GORGE RD.
SAN DIEGO, CALIF. 92120
COMPANY REPRESENTATIVES
GRIOT ASSOCIATES
3002 MIDVALE AVENUE
LOS ANGELES, CALIF. 90034
213 474-1587
GRIOT ASSOCIATES
56D SAN ANTONIO ROAD
PALO ALTO, CALIF. 94306
415 327-3996

NORTHEAST ASSOCIATES
BOX 1242
STAMFORD, CONN. 06904
203 323-3814
NORTHEAST ASSOCIATES
BOX 31
MARBLEHEAD, MASS. 01946
617 631-3688
KING ASSOCIATES
8012 CINDY LANE
BETHESDA, MD. 20034
301 469-7610

GATES RADIO COMPANY

SALES MANAGER
EUGENE O. EDWARDS
BRAND NAMES
ATC
AUTOMATIC TAPE CONTROL DIV
COMPANY ADDRESS
123 HAMPSHIRE STREET
QUINCY, ILLINOIS 62301
217-222-8202
U.S. BRANCH OFFICES
ED WILDER
1945 S FIGUEROA
LOS ANGELES, CALIF 90007
213 747 7129
EDWARD SHUEY
BROADCAST SALES
730 FEDERAL BLDG
1522 K STREET, N.W.
WASHINGTON, D.C.
202 223 5508
JOE ENGLE
800 SECOND AVENUE
NEW YORK, NEW YORK 10017
212 687 7971
JOE WOODS
STORE MANAGER
4019 RICHMOND AVENUE
HOUSTON, TEXAS 77027
713 666 4333

EXPORT

ARNE CLAPP
BROADCAST PRODUCT MGR
637 CRAIG STREET, WEST
MONTREAL, QUEBEC
514 866 6755
ROCKE INTERNATL CORP
TOM TUCKER, ASST MGR
COMMUNICATIONS DEPT
13 EAST 40TH STREET
NEW YORK, N.Y. 10016
212 MU 9 0200
TERRITORY MANAGERS
WILLIAM MOATS
PO BOX 20160
3220 MOCKINGBIRD LANE
BIRMINGHAM, ALA 35216
205 822 3625
ROBERT STEIGER
PO BOX 1914
SACRAMENTO, CALIF 95809
916 446 4470
HOWARD DEMPSEY
8171 ORCHARD DRIVE
DENVER, COLORADO 80221
303 429 5758
RICHARD SPRUILL
PO BOX 8735
JACKSONVILLE, FLORIDA 32211
904 721 2779
CLARENCE MORGAN
22235 BURDETTE STREET
GLEN ELLYN, ILLINOIS 60137
312 469 0847
PAUL TIMPE
19 WINDY HILL
QUINCY, ILLINOIS 62301
217 223 4701
STANLEY WHITMAN
BOX 2397, STATION A
WATERLOO, IOWA 50705
319 223 0561
THOMAS SCHOONOVER
7169 BURKENHEAD PLACE
LAMBERTVILLE, MICHIGAN 48144
313 856 3581
ROBERT HALLENBECK
11 RIDGECREST
LATHAM, NEW YORK 12110
518 785 9144
URLIN WHITMAN
2719 S HUDSON AVENUE
TULSA, OKLAHOMA 74114
918 836 4835
LEWIS DENES
BOX 584A, ROUTE 2
BORING, OREGON 97009
513 658 2684
NEIL ARVESCHOUH
PO BOX 414
GRANVILLE, PENNSYLVANIA 43023
614 294 2594
RAFAEL ACOSTA
PO BOX 89
RIO PIEDRAS, PUERTO RICO
JOE COLE
PO BOX 246
HALIFAX, VIRGINIA 24558
703 476 4514

GBC AMERICA CORPORATION

SALES MANAGER
HARRY LEFKOWITZ
BRAND NAMES
GBC
COMPANY ADDRESS
89 FRANKLIN STREET
NEW YORK, NEW YORK 10013
COMPANY REPRESENTATIVES
R MARK MARKMAN, CO
4142 LANKESSH BLVD
NO HOLLYWOOD, CALIF
213 TR 7 3368

F W MOUTHRUP ASSOC
1530 E 12TH ST
OAKLAND, CALIF
415 261 7676
KOETHER-COX CO
1325 INCA ST
DENVER, COLO
303 733 5561
J E JOYNER ASSOC
P O BOX 10821, STA A
ATLANTA, GA
404 758 7496
KLEM-STEFFEN INC
709 GARFIELD ST
OAK PARK, ILL
312 921 1200
GENE ROSEN ASSOC
9501 WADSWORTH DRIVE
BETHESDA, MD
301 365 5113
COAKLEY BOYD & ABBETT
1424 HIGHLAND AVE
NEEDHAM, MASS
617 444 5470
MAUREY E BETTIS CO
3706 BROADWAY
KANSAS CITY, MO
816 LO 1 0772
JOHN OLSEN CO
16201 SHAKER BLVD
CLEVELAND, OHIO
216 752 5444
MAYNARD SALES CO
158 EXPRESS ST
DALLAS, TEXAS
214 RI 2 2384
DAVE MILLER SALES CO
2323 NO 45TH ST
SEATTLE, WASH
206 ME 7 7070
REPS. IN OTHER COUNTRIES
ROBERT J BUCKLAND CO
P O BOX 367 STAT B
LONDON, ONTARIO
519 432 7731

G C ELECTRONICS COMPANY

SALES MANAGER
ED GALLAGHER
BRAND NAMES
AUDIOTEX
ELECTROCRRAFT
G C ELECTRONICS
SPEDEX
WALSCO
COLORMAGIC ANTENNA CO
COMPANY ADDRESS
400 S. WYMAN STREET
ROCKFORD, ILLINOIS 61101
COMPANY REPRESENTATIVES
JACK LOGAN & ASSOCIATES
801 MAHLER RD
BURLINGAME, CALIF
WESTERN ELECTRIC COMPONENTS
4301 BIRCH ST
NEWPORT BEACH, CALIF
ROCKMOUNT ENTERPRISES
3268 ZENITHA CT
GOLDEN, COLORADO
W F HAMILTON CO
5130 N ELSTON AVE
CHICAGO, ILLINOIS
D W MARCUS
P O BOX 453, 33 IRVING RD
NATICK, MASS
CHARLES F VANDERVOORT
1279 OSAGE ST
ST PAUL, MINN
PETERSON-RUDNICK ASSOCIATION
P O BOX 822
W CALDWELL, N J
JUD LEBRUN
1123 SW YAMHILL ST
PORTLAND, OREGON
MFG MKTG SERVICE
10202 BROCKBANK DR
DALLAS, TEXAS

G E VISUAL COMMUNICATIONS PROD

SALES MANAGER, BROADCAST SALES
ROBERT E LAUTERBACH
SALES MANAGER, FIELD SALES
ROBERT W COCHRAN
COMPANY ADDRESS
SYRACUSE, NEW YORK
COMPANY REPRESENTATIVES
ROBERT L MANAHAN
WHELAN BLDG, 701 WELCH RD
PALO ALTO, CALIF 94304
415 323 4108
R DONALD PETERSON
232 N LAKE AVE
PASADENA, CALIF 91101
213 795 1209
JOHN F WATTER
777 14TH ST N W
WASHINGTON, D C 20005
202 393 3600
JAMES M COMER, JR
RM 517
1330 W PEACHTREE ST NW
ATLANTA, GA 30309
404 875 6691
THOMAS F BOST, JR
117 SOUTH MAIN ST
MT PROSPECT, ILL 60056
312 255 3200
CURTIS I KRING
3628 W 95TH ST
SHAWNEE MISSION, KANS 66206
913 649 7131
GE VISUAL COMM PRODUCTS DEPT
6501 E NEVADA ST
DETROIT, MICH 48234
313 892 7600

HAROLD W MORSE
BOX 1021
SYRACUSE, N Y 13201
315 456 7738
JOHN H PAINTER
P O BOX 1021
SYRACUSE, N Y 13201
315 456 7309
LEWIS F PAGE
GRAYBAR BLDG 420 LEXINGTON
NEW YORK, N Y 10017
212 751 1311
EARL H PLATT
910 WILLIAMSON BLDG
CLEVELAND, OHIO 44114
216 781 6822
JAMES H DOUGLAS
4447 N CENTRAL EXPWY
DALLAS, TEXAS 75205
214 526 0426

G E DISTRIBUTOR SALES FORCE

COMPANY ADDRESS
GENERAL ELECTRIC COMPANY
OWENSBORO, KENTUCKY

G E INDUSTRIAL SALES OPERATION

COMPANY ADDRESS
GENERAL ELECTRIC COMPANY
SCHENECTADY, N Y

G E CAPACITOR DEPARTMENT

COMPANY ADDRESS
GENERAL ELECTRIC COMPANY
HUDSON FALLS, N Y

G E SUPPLY COMPANY

COMPANY ADDRESS
GENERAL ELECTRIC SUPPLY CO
BOSTON, MASS

G E SALES AND DISTRIBUTION

COMPANY ADDRESS
GENERAL ELECTRIC COMPANY
LOUISVILLE, KENTUCKY

GENERAL ELECTRIC COMPANY

COMMUNICATION PRODUCTS DEPT.
MANAGER MARKET DEVELOPMENT
J. A. LIGHTNER
COMPANY ADDRESS
GENERAL ELECTRIC COMPANY
P O BOX 4197
LYNCHBURG, VA 24502

G E PICKUP TUBE OPERATION

GENERAL ELECTRIC COMPANY
MANAGER BROADCAST SALES
E T CHACE
COMPANY ADDRESS
ELECTRONICS PARK
BLDG 6, ROOM 128
SYRACUSE, NEW YORK 13201

COMPANY REPRESENTATIVES
THEO W WEICKER
555 VETERANS BLVD
REDWOOD CITY, CALIF
415 369 7151
AVERY P LONG
201 UNIVERSITY AVE
DENVER, COLO
303 388 5771
VICTOR S SYZDEK
410 ASYLUM STREET
HARTFORD, CONN
203 527 0135
DONALD G REIK
777 14TH ST N W
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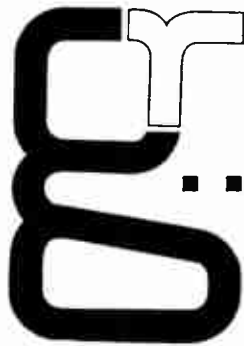
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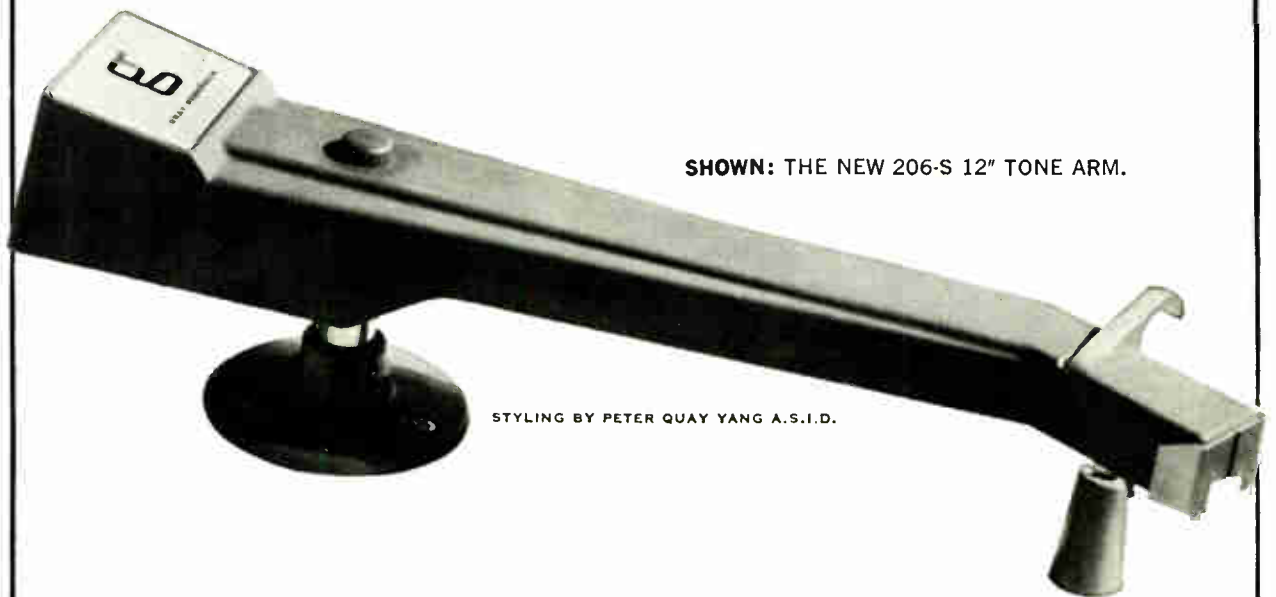
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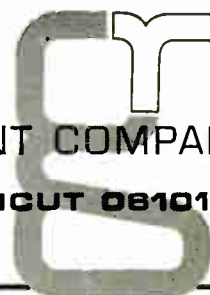
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SUPER-η LINES FOR VIDEO SYSTEMS

Impedance: 75 ohms (unless otherwise specified)
Amplitude Response: better than 0.1 db. flatness to 10 MHZ or higher
Ripple: within $\pm .05$ db to 10 MHZ or higher
Group Delay: linear within $\pm 1\%$ or \pm Insec, whichever is greater.
Group Delay Ripple: within $\pm 2\frac{1}{2}\%$ to 14 MHZ
K factor: better than .25% for T or 2T sin² pulse for both American and European systems
Cross talk: less than 46 db.

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Specify KAPPA for the most complete line of electro-magnetic delay lines...

STANDARD LUMPED CONSTANT DELAY LINES SERIES LC



Delay: 50 Nanoseconds to 1 second
 Bandwidth: DC to 250 MHZ
 Rise Time: As low as 2 Nanoseconds
 Impedance: 25 ohms to 50 K ohms

TRANSPONDER LINES SERIES C



Tap Spacing: 1.45 μ sec, or as required
 Tap Tolerance: $\pm .05$, or as required
 Delay-to-Rise-Time Ratio: 100 max.
 Temperature Stability: 50 ppm. °C or less

LOW DISTORTION LINES SERIES D



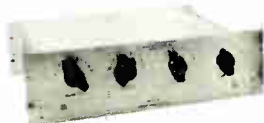
Distortion at Output: 2% max.
 Distortion at Taps: Less than 5% at any tap
 Distortion Limit: As low as 0.1% if required
 Delay Range: up to 100 usec.

PRECISION AUDIO DELAY LINES SERIES A



Delay Range: from 500 μ sec to 1 sec.
 Bandwidth: 70 KHZ (max.)
 Delay Linearity: nominally within $\pm 0.25\%$ available to within $\pm 0.05\%$

PRECISION DECADE DELAY UNITS SERIES DK



Variable delays available between input and output terminals in decade steps. Each decade has eleven (11) switch contacts and ten (10) delay increments so that the dial values overlap.

ULTRA MINIATURE DELAY LINES SERIES T



Delay Range: to 200 nsec.
 Delay/Rise Time: 10 max.
 Attenuation: .2 db max.
 Fully encapsulated

STANDARD DISTRIBUTED CONSTANT DELAY LINES SERIES DC



Delay Range: to 3 μ sec.
 Standard Tolerance: $\pm 5\%$ on Delay
 Delay-to-Rise-Time Ratio: 11 max.
 Distortion: $\pm 5\%$ (typical), $\pm 10\%$ max.

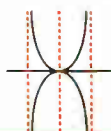
DELAY TRIMMERS: TINY TRIM[®] SERIES



Size: 1/4 Cubic Inch

PART NUMBER	SHIFT RANGE @ 3.58 MHZ	DELAY (Nano-sec.)	RISE TIME (Nano-sec.)	IMPEDANCE (ohms)
TT20D	25	20	5	500
TT30C	38	30	7.5	390
TT40D	50	40	10	500
TT50C	64	50	12.5	390
TT60C	75	60	15	330

Contact us for the name of your nearest representative or consult listing in this directory. Complete new catalog available.



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VIDEO

TEST TERMINATIONS



Type PL 259



Type N



Type BNC

HOLLAND ELECTRONICS Precision Test Terminations provide a simple, convenient method for accurately terminating pulse, video and RF coaxial cables. These terminations eliminate undesirable reflections and provide an easily accessible test terminal for checking waveform and level.

The terminating elements are low noise 1% metal film resistors and can be supplied in any value required.

TEST TERMINATION PLUGS



Tip Jack



Front View



Solder Lug

HOLLAND ELECTRONICS Coaxial Test Termination Plugs are designed for use in Pulse, Video and RF patching systems. These terminations provide a means of properly terminating a line in its characteristic impedance and in addition have access to the center conductor for examination of signal under terminated conditions.

Plugs contain a 1/2W, 1% tolerance low noise resistor. All contact surfaces are heavy gold plated. Choice of test terminal between solder lug or pin tip jack (for 0.080 dia. test probes) color coded, Green 50 ohms, Violet 75 ohms, White 93 ohms. Plugs are compatible with RCA or W.E. patching systems.

FIXED PAD ATTENUATORS



Type AUHF



Type AN



Type ABNC

HOLLAND ELECTRONICS Fixed Pad Attenuators are precision coaxial assemblies designed for use in pulse, video and RF circuits. Fully enclosed ruggedized metal construction provides shielding and protects the low noise 1% tolerance metal film resistors used in the attenuation networks. Careful design assures good high frequency response to 250 megacycles.

Attenuators are available in any desired db value from 1 through 60 db in 1 db steps. Standard impedances are 50, 75 and 93 ohms. Standard connectors are UHF, N and BNC. Type UHF and BNC attenuators are rated at 1/2 watt; type N at 1 watt. Special units can be supplied with any impedance or attenuation, multiple outputs, different input and output connectors, type TNC and C connectors, test terminals, etc. Impedance matching attenuators are also available.

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F F JOHNSON CO SEATTLE OFFICE
MERCER ISLAND, WASHINGTON
206 232-6242
REPS. IN OTHER COUNTRIES
A C SIMMONDS & SONS, LTD.
TORONTO, ONTARIO
416 485-9111

JOHNSON ELECTRONICS, INC.

SALES MANAGER
RALPH L. WEBER
BRAND NAMES
JOHNSON-AIR
COMPANY ADDRESS
P.O. BOX 7, HWY. 17-92
CASSELLBERG, FLORIDA 32707
305 838-2111
COMPANY REPRESENTATIVES
MIKE NEWTON
HYDE ELECTRONICS CO., INC
4710 N 16TH STREET
SUITE 109
PHOENIX, ARIZONA 85015
602 264-5609
WAYNE WAINWRIGHT
TELEPACIFICOM
PO BOX 926
LOS GATOS, CALIF
408 354-1411
DICK HYDE
HYDE ELECTRONICS CO., INC
888 SO LIPAN STREET
DENVER, COLO 80223
303 936-3455
SCOTT ORMSBY
SCOTT ORMSBY SALES
230 20TH STREET
NEW ORLEANS, LA 70124
504 488-2414
LEE DAVIS
HYDE ELECTRONICS CO., INC
5206 CONSTITUTION AVE., NE
ALBUQUERQUE, N MEXICO 87110
505 265-8895
ERNEST L WILKS
EL WILCO
PO BOX 14466
DALLAS, TEXAS 75234
214 242-5321
PAUL POWERS
HYDE ELECTRONICS CO., INC
2422 CAMINO WAY
SALT LAKE CITY, UTAH 84121
801 278-4465

JORDAN ELECTRIC COMPANY

SALES MANAGER
BOYD M. BARTON
COMPANY ADDRESS
14707 KESWICK STREET
VAN NUYS, CALIF, 91405

KAMN RESEARCH LABORATORIES INC

BRAND NAMES
ECHOMPLEX

SYMMETRA-PEAK
VOICEPLEX
COMPANY ADDRESS
81 SOUTH BERGEN PLACE
FREEPORT, NEW YORK 11520

KAISER-COX CORPORATION

SALES MANAGER
WALT BAXTER
505 SO WOODBURY RD
PITMAN, N J 08071
609 589 0330
BRAND NAMES
PHONECIAN
KASIER-COX
THUNDERBIRD
OMPANY ADDRESS
2216 W. PEORIA AVE. BOX 9728
PHOENIX, ARIZONA 85020
COMPANY REPRESENTATIVES
JAMES TAGLIA
2292 N PEACHTREE COURT
CHAMBLEE, GEORGIA 30005
404 451 0013
CHARLES LEYRER
1099 D IRONGATE LANE
COLUMBUS, OHIO
GEORGE E BARRY
14622 CHERRY HILLS DRIVE
DALLAS, TEXAS 75234
214 247 4223

THE KALART COMPANY INC

EXEC. VP
L. QUARTIN
SALES MANAGER TELE-BEAM DIV
R. ZEITLER
BRAND NAMES
CRAIG
KALART
KALART VICTOR
SOUNDSTRIP
TELE-BEAM
VICTOR ANIMATOGRAPH
VICTOR SOUNDVIEWS
COMPANY ADDRESS
PLAINVILLE, CONN. 06062
COMPANY REPRESENTATIVES
MORT GOLOBERG
154 VALLEY ROAD
COS COB, CONN
JOHN J HARNETT
275 E 201ST STREET
BRONX 58, NEW YORK

KAPPA NETWORKS, INC

SALES MANAGER
STANLEY L PEARL
BRAND NAMES
TINY TRIM
SUPER-N
COMPANY ADDRESS
165 ROOSEVELT AVENUE
CARTERET, N J 07008
COMPANY REPRESENTATIVES
RAYMARG
P O BOX 515
SANTA CLARA, CALIF
248 5199
WESTERN ELECTRONIC COMPONENTS
4301 BIRCH ST
NEWPORT BEACH, CALIF
631 6110
BE-MAR ASSOCIATES
1016 ABINGTON ROAD
CHERRY HILL, NEW JERSEY
428 6390
BERTRAM D AARON & CO
P O BOX 186
ROSLYN, L I., NEW YORK
MA 1 0630
JOHN D OLSEN CO
16201 SHAKER BOULEVARD
CLEVELAND, OHIO
752 5444
JOHN O OLSEN CO
5939 STOKESWOOD COURT
CINCINNATI, OHIO
922 2176
BE-MAR ASSOCIATES
P O BOX 556
FALLS CHURCH, VIRGINIA
534 1004
REPS IN OTHER COUNTRIES
UNI-OFFICE, N V
P O BOX 1122
ROTTERDAM, HOLLAND

KARG LABORATORIES INC

SALES MANAGER
J. CURTIS
COMPANY ADDRESS
162 ELY AVENUE
SOUTH NORWALK, CONN. 06856

MATHIAS KLEIN & SONS

SALES MANAGER
C. F. CASTINO
COMPANY ADDRESS
7200 MCCORMICK RD.
CHICAGO, ILLINOIS 60645

KLINE IRON & STEEL COMPANY

SALES MANAGER
J. R. TROTTER
1225 HUGER STREET
COLUMBIA, S. C. 29202
AL 4-0301
BRAND NAMES
KIMCO
COMPANY ADDRESS
P O BOX 1013
COLUMBIA, S. C. 29202

KOSS ELECTRONICS INC

SALES MANAGER
GREG CORNEHLS
BRAND NAMES
ACQUITECH
REK-O-KUT
KOSS
COMPANY ADDRESS
2227 NORTH 31 STREET
MILWAUKEE, WISCONSIN 53208
COMPANY REPRESENTATIVES
F W MOULTHROP & ASSOC
1530 EAST 12 STREET
OAKLAND, CALIFORNIA 94606
415 261 7676
SHEPARD WINTERS STERN
4109 BURBANK BLVD
BURBANK, CALIF 91505
213 849 6671
JOHN ROWE & ASSOC
58 & VALLEY HWY, SUITE 2170
DENVER, COLO 80216
303 429 4595
JOSEPH ANDERSON
3138 BRINKLEY ROAD, APT 3
WASHINGTON, D. C. 20031
202 894-3455
DOW FITZGERALD
6231 SOUTH CHURCH
TAMPA, FLORIDA 33616
813 834 3981
R A CHALMERS
349 PEACHTREE HILLS AVE., NE
ATLANTA, GEORGIA 30305
404 233 3208
MARTIN BORISH
139 MAIN STREET
CAMBRIDGE, MASS 02142
617 354 3742
GROSSMAN SALES CO
339 AUBURN STREET
AUBURNDALE, MASS 02166
617 527 7753
CARMINE A VIGNOLA ASSOC
21 SCHELLRIDGE ROAD
JEFFERSON CITY, MO 65101
314 635 1023
BACH SALES CORP
26 MAHAN ROAD
OLD BETHPAGE, NEW YORK 11804
212 687 1240
SCHROEDER SALES CO
2254 EUCLID AVENUE
CLEVELAND, OHIO 44115
216 621 5074
BRENOAN OHARA
4952 WYNEFIELD AVENUE
PHILADELPHIA, PENN 19131
215 473 3654
MAYNARD SALES CO
158 EXPRESS STREET
DALLAS, TEXAS 75207
214 742 2384
VECTOR CORP
307 WALL STREET
SEATTLE, WASHINGTON 98121
206 623 6891
REPS. IN OTHER COUNTRIES
KOSS - IMPETUS
2 VIA BERNA
LUGANO, SWITZERLAND
91 38214
A. C. SIMMONDS & SONS
100 MERTON STREET
TORONTO, ONTARIO
416 485 9111

HERB KRECKMAN CO

SALES MANAGER
HERB KRECKMAN
BRAND NAMES
KRECO ANTENNAS
COMPANY ADDRESS
CRESCO, PA. 18326
COMPANY REPRESENTATIVES
WAMBLE SALES CO
3745 MARIE COOK DRIVE
MONTGOMERY, ALABAMA
205 272 4600
HOFFER ENTERPRISES
129 FIFTH AVE
ANCHORAGE, ALASKA
C H MITCHELL CO
18531 VENTURA BLVD
TARZANA, CALIF
881 2626
JOHN ANDERSON CO., INC
5231 HUMBOLT AVE
50 MINNEAPOLIS, MINN
612 823 6459
H A ROSS & CO
2601 CHERRY
KANSAS CITY, MO
816 221 0866
ED BRADDOCK
BOX 305
HADDONFIELD, N. J.
609 429 0087
CHESTER DREXLER
3 LEE DRIVE
50 FARMINGDALE, L.I., N.Y.
516 249 8206
OMIO ASSOC
BOX 728
LIMA, OHIO
VAUGNSVILLE 6500
WYBORN SALES CO
BOX 17070
DALLAS, TEXAS
214 381 4645
DON KOHLER
1152 4TH AVE NE
SEATTLE, WASHINGTON
206 363 1439

KRS INSTRUMENTS
DIV OF DATAPULSE, INC

SALES MANAGER
JAMES S. JOHNSON
BRAND NAMES
STACT
STACTAPE
COMPANY ADDRESS
1313 N. LINCOLN AVE.
PASADENA, CALIF. 91103
213 601 7416
TWX 910 588 3282
COMPANY REPRESENTATIVES
W A BROWN & ASSOCIATES, INC
1314 BUFORD STREET, N W
HUNTSVILLE, ALABAMA 25801
HYTRONIC MEASUREMENTS
1017 N THIRD ST
PHOENIX, ARIZONA 85004
THE THORSEN COMPANY
6824 MELROSE AVENUE
LOS ANGELES, CALIF. 90038
HYTRONIC MEASUREMENTS, INC
1295 SOUTH BANNOCK STREET
DENVER, COLO 80223
INSTRUMENT CONSULTANTS, INC
2381 WHITNEY AVENUE
HAMDEN, CONN 06518
W A BROWN & ASSOCIATES, INC
222 WEBER AVENUE
ORLANDO, FLORIDA 32803
W A BROWN & ASSOCIATES
3039 NE 32ND AVE
FORT LAUDERDALE, FLA 33308
RIDGWAY ASSOCIATES, INC
3759 N HARLEM AVENUE
CHICAGO, ILLINOIS 60634
LEEMARK ASSOCIATES, INC
4518 WEST 89TH STREET
PRAIRIE VILLAGE, ILL. 60207
WITKO ELECTRONICS
3919 WILLOW DR
WICHITA, KANSAS
BRIMBERG ASSOCIATES, INC
110 E PENNSYLVANIA AVE
TOWSON, MD. 21204
BRIMBERG ASSOCIATES, INC
814 THAYER AVENUE
SILVER SPRINGS, MD. 20910
INSTRUMENT CONSULTANTS, INC
P O BOX 25
WABAN, MASS. 02168
RIDGWAY ASSOCIATES, INC
7720 MORGAN AVENUE SOUTH
MINNEAPOLIS, MINN 55423
LEEMARK ASSOCIATES, INC
2001 BIG BEND BLVD
ST LOUIS, MO. 63117
WITKO ELECTRONICS
P O BOX 125
FAIRBURY, NEBRASKA
DATA REP ASSOCIATES
P O BOX 645
RIDGEWOOD, N J 07451
HYTRONIC MEASUREMENTS, INC
2055 SAN PABLO, S E
ALBUQUERQUE, N M 87108
J D RYERSON ASSOCIATES, INC
P O BOX 1400
SYRACUSE, N Y 13201
DATA REP ASSOCIATES
BOX 164, HUNTINGTON STATION
HUNTINGTON, N. Y.
W A BROWN ASSOCIATES, INC
440 WEST-END BLVD
WINSTON-SALEM, N.C. 27101
RIDGWAY ASSOCIATES, INC
22811 LORAIN ROAD
FAIRVIEW PARK, OHIO
RIDGWAY ASSOCIATES, INC
2400 E DOROTHY LANE
DAYTON, OHIO 45420
DATA REP ASSOCIATES
BOX 349
NORRISTOWN, PENN
WITKO INC
435 BRANIFF BUILDING
DALLAS, TEXAS
AIREP ELECTRONICS, INC
P O BOX 36211
HOUSTON, TEXAS 77036
AIREP ELECTRONICS, INC
P O BOX 9555
DALLAS, TEXAS 75214
HYTRONIC MEASUREMENTS, INC
2022 SOUTH MAIN STREET
SALT LAKE CITY, UTAH 84115
W A BROWN & ASSOCIATES, INC
325 FIRST STREET
ALEXANDRIA, VA 22314
THE THORSEN COMPANY
1767 15TH AVENUE SOUTH
SEATTLE, WASH 98144
REPS. IN OTHER COUNTRIES
DELTA EQUIPMENT S A
28 RUE DE TABELLON
BRUXELLES 5, BELGIUM
OMNI RAY GMBH
NYMPHENBURGER STRASSE 164
MUNICH 19, WEST GERMANY
ENVIRONMENTAL EQUIPMENTS, LTD
STATION YARD
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GENERAL TEST INSTRUMENTS, LTD
GLOUCESTER TRADING ESTATE
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MEL SALES LIMITED
71 CROCKFORD BLVD
SCARBOROUGH, ONTARIO
MEL SALES LIMITED
P O BOX 1352, POSTAL STA. O
MONTREAL, QUEBEC
SIMON GRAY, PTY LTD
28 ELIZABETH STREET
MELBOURNE, CI, AUSTRALIA

LACROSSE ELECTRONICS INC
SALES MANAGER
KIT VAIL
COMPANY ADDRESS
P.O. BOX 102
LACROSSE, WISCONSIN 54601
782-6042

LAFAYETTE RADIO ELECTRONICS
SALES MANAGER
J. RUSSELL
BRAND NAMES
ARGONNE-R
COMPANY ADDRESS
111 JERICHO TURNPIKE
SYOSSET, L.I., N.Y. 11791

LAKE ELECTRONICS, INC
VICE PRESIDENT-MARKETING
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BRAND NAMES
LAKE-GERHARD
COMPANY ADDRESS
3311 PERKINS AVENUE
CLEVELAND, OHIO 44114
216 431 6212

LAMPKIN LABORATORIES INC
SALES MANAGER
DAVID A. BOYERS
COMPANY ADDRESS
BRADENTON, FLORIDA 33505

LANG ELECTRONICS, INC
COMPANY ADDRESS
507 FIFTH AVE
NEW YORK, NEW YORK 10017

LANGVIN, DIVISION SCIENTIFIC INDUSTRIES, INC
SALES MANAGER
JOHN SWANSON
BRAND NAMES
LANGVIN
COMPANY ADDRESS
1801 E. CARNEGIE AVE.
SANTA ANA, CALIF. 92705
546-8830
COMPANY REPRESENTATIVES
KOESSLER SALES CO
818 NORTH FAIRFAX AVE
LOS ANGELES, CALIF
213 OL 3 1605
RON BOWEN & ASSOC
721 SOUTH BROADWAY
DENVER 9, COLO.
303 SH 4 2501
J E JOYNER ASSOCIATES
P O BOX 10821 STA A
868 YORK AVE, SW
ATLANTA, GA 30310
404 758 7496
IRVING W. ROSE ASSOC
4734 N. AUSTIN AVE
CHICAGO, ILL
312 AV 2 6835
GENE ROSEN & ASSOC
9501 WADSWORTH DRIVE
BETHESDA, MARYLAND
301 365 5113
TECH REP ASSOC
BOX 161, 17 ANDREW ROAD
TOPSFIELD, MASS
617 887 8671
RILEY & PETCHELL ELECT SALES
13209 FENKELL
DETROIT 27, MICH.
313 VE 8 9100
SMITH-MEEKER ENGINEERING CO
157 CHAMBERS ST
NEW YORK, NEW YORK
212 WO 4 5510
THE M. SIMONS & SON CO., INC
EXPORT
150 BROAOWAY
NEW YORK, N. Y.
212 BA 7-5513
SCHROEDER SALES CO
2254 EUCLID AVE
CLEVELAND, OHIO
216 MA 1 5075
HAYS COMPANY
BOX E, 405 N. BOWSER
RICHARDSON, TEXAS
214 AD 1 1426
WILLIAM R. LANPHEAR CO
4031 STONEMAY NORTH
SEATTLE, WASH
206 ME 3 4900
REPS. IN OTHER COUNTRIES
E. J. PIGGOTT ENTERPRISES
274 CHURCH STREET
TORONTO, ONTARIO
416 363 9141

JAMES B LANSING SOUND CO
BRAND NAMES
JBL
COMPANY ADDRESS
3249 CASITAS AVE.
LOS ANGELES, CALIF. 90039

LAVIOLETTE ELECTRONICS
SALES MANAGER
DORIS A. LAVIOLETTE
COMPANY ADDRESS
26077 FARMFIELD ROAD
CALABASAS, CALIF. 91302

LENKURT ELECTRIC CO INC
SALES MANAGER
JAY NAUGLE
BRAND NAMES
AGAMP
DATATEL
LENKURT

MICROTEL
MOBILTEL
COMPANY ADDRESS
1105 COUNTY ROAD
SAN CARLOS, CALIFORNIA 94070
591 8461
COMPANY REPRESENTATIVES
KEN K. HIGGINS
LENKURT ELECTRIC CO., INC
845 THIRD AVE 12TH FLOOR
NEW YORK, N.Y. 10022
355 1507
M. C. ROYALTY
LENKURT ELECTRIC CO., INC
340 NORTHCREST BLDG
8609 NORTHWEST PLAZA DR
DALLAS, TEXAS 75225
363 0286

LENZ ELECTRIC MANUFACTURING COMPANY
SALES MANAGER
R. G. ZENDER
COMPANY ADDRESS
1751 NORTH WESTERN AVE.
CHICAGO, ILLINOIS 60647
COMPANY REPRESENTATIVES
R. HALES PRIMMORE & ASSOC
1225 E NORTHVIEW AVE
PHOENIX, ARIZONA
944 9631
PENWARDEN ASSOC, INC
14547 TITUS ST
VAN NUYS, CALIF
ST 2-4920
WINCO CORP
257 CASTRO ST
P O BOX 881
MOUNTAIN VIEW, CALIF
961 8510
MEL FOSTER CO., INC
228 SO CEDAR LAKE ROAD
MINNEAPOLIS, MINN
374 2612
NORMAN W. KATHRINUS & CO
2427 BRENTWOOD BLVD
ST LOUIS, MISSOURI
WO 2 5627
MCFADDEN SALES CO
150 EAST BROAD ST
COLUMBUS, OHIO
221 3363
DANCO CORP
GERMANTOWN PIKE &
QUARRY HALL ROAD
FAIRVIEW VILLAGE, PA
CH 8 1619
CAMPIO SALES CO
9002 CHANCELLOR ROW
DALLAS, TEXAS 75207
ME 1 3390

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L & K
COMPANY ADDRESS
107 TRUMBULL STREET
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LIBERTY TOWER MFG CO
SALES MANAGER
R. J. GRIFFITH
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RT 45 NORTH, BOX 161
EFFINGHAM, ILLINOIS
COMPANY REPRESENTATIVES
GLEN GRIFFITH
DIETERICH, ILL
925 3032
E. A. MARTEN
EFFINGHAM, ILL
342 2835
A. D. GRIFFITH
EFFINGHAM, ILL
342 2835
B. J. GRIFFITH
EFFINGHAM, ILL.
342-2835
BILLY GRIFFITH
8900 N. E. 51ST
OKLAHOMA CITY, OKLA
PR 1 3743
ART GRIFFITH
7900 S SHIELDS
OKLAHOMA CITY, OKLA
ME 4 8779

LIGHTING & ELECTRONICS INC
SALES MANAGER
N. J. SONNENFELD
COMPANY ADDRESS
423 SOUTH BROADWAY
YONKERS, NEW YORK 10705
COMPANY REPRESENTATIVES
R C LURIE COMPANY
4718 N 35TH PARKWAY
PHOENIX 14, ARIZONA
602 264 5904
CALIFORNIA LIGHTING SALES
3035 WEST 7TH ST
LOS ANGELES 5, CALIF
213 388 3176
DESCO
6232 EEL COURT
N HIGHLANDS, CALIF
916 331 5249
GREGG M CLOOS CO
977 JACKSON ST
DENVER, COLORADO 80206
303 355 0660
WYMAN/YOUNG ASSOC
6 PRATT STREET
ROCKY HILL, CONN 06067

203 529 2019
K. DALE RHODES
333 N. OCEAN BLVD
DEERFIELD BEACH, FLORIDA
305 399 7389
DON REIMAN & ASSOC
419 NORTH AVE., N. E.
ATLANTA, GEORGIA 30305
404 231 1972
VERN WINN
1121 LONGWOOD CIRCLE
LOUISVILLE, KY 40223
502 895 9940
GREGORY-SALISBURY & CO INC
805 S FRONT STREET
NEW ORLEANS, LA 70130
504 524 5207
GREGORY-SALISBURY & CO INC
P O BOX 1126
RATON ROUGE, LA 70003
504 342 2873
RICHARD B MURDOCH
7300 BAYLOR AVE
COLLEGE PARK, MD 20741
301 GR 4 5790
WYMAN/YOUNG ASSOCIATES
128 ORCHARDVIEW AVE
WEST SPRINGFIELD, MASS 01089
413 738 2631
GERALD FINN
4892 FULLER AVE S E
GRAND RAPIDS, MICHIGAN 48211
616 534 8327
LIGHTING ASSOCIATES
1961 E MILWAUKEE AVE
DETROIT, MICH 48211
313 875 2757
GREGORY-SALISBURY CO INC
350 N MART PLAZA, BOX 9767
JACKSON, MISS 39026
601 EM 2 1671
P M ERWIN ASSOCIATES
3738 WASHINGTON BLVD
ST LOUIS 8, MO
314 JE 5 8651
TED STUART
47 DARTMOUTH DRIVE
DELRAN, NEW JERSEY
609 HO 1 6875
WILLIAM MAY & ASSOCIATES
57 FIRST STREET
PEQUANOCK, N J 07440
201 656 2578
RUSSELL ERICKSON AGENCY
1100 ALVAREDO DRIVE NE
ALBUQUERQUE, NEW MEXICO
505 242 9589
HEADQUARTERS
423 SOUTH BROADWAY
YONKERS, NEW YORK 10705
914 965 7050
WARREN A BRENNAN
15 PIERPORT DRIVE
WILLIAMSVILLE, N Y 08075
716 633 8225
FRANK SWEENEY AGENCY
225 TWIN HILLS DRIVE
SYRACUSE, N Y 14221
315 475 0662
S L BAGBY CO
322 W MOREHEAD ST
CHARLOTTE 1, N CAROLINA
704 334 2821
WARREN LEHR ASSOC. INC
1890 NORTHWEST BLVD
COLUMBUS, OHIO 43212
614 488 5939
ROBERT EIMS ASSOC
274 N 61ST STREET
OKLAHOMA CITY, OKLA
405 VI 3 0874
M B MOORE, JR & ASSOC
BOX 463
MYRTLE BEACH, S C 29577
803 449 5881
GREGORY-SALISBURY & CO INC
P O BOX 6166
MEMPHIS, TENN 38106
901 948 0496
W J CHILDERS
5811 MALETIO LANE
DALLAS, TEXAS 75230
214 AD 9 3684
MICHAEL PRICE
BOX 222
N SALT LAKE CITY, UTAH 84110
801 295 3435
LYNN H MORRIS
452 HIGH STREET BOX 349
SALEM, VIRGINIA 24153
703 389 5798

LINDSAY SPECIALTY PRODUCTS LTD
BRAND NAMES
LINDSAY
COMPANY ADDRESS
50 MARY ST., W
LINDSAY, ONTARIO

LIPPS INC
VICE PRESIDENT - SALES
BERNARD D. LIPPS
BRAND NAMES
LIPPS, INC
COMPANY ADDRESS
1630 EUCLID STREET
SANTA MONICA, CALIF. 90404
393-0449
COMPANY REPRESENTATIVES
WILLIAM F. LANGLEY
8219 RHEA AVE
NORTHBRIDGE, CALIF
349-6694

LITTELFUSE INC
VICE PRES & SALES MANAGER

WALTER A. CLEMENTS
BRAND NAMES
MICROFUSE
PICOFUSE
SLO-BLO
COMPANY ADDRESS
800 E NORTHWEST HWY
DESPAINES, ILL 60016
312 824-1188
COMPANY REPRESENTATIVES
HARRY MOORE SALES CO
4142 N 18TH
PHOENIX, ARIZONA
602 274 0060
WM. J. PURDY CO.
312 7TH STREET
SAN FRANCISCO, CALIF.
415 863 3300
JACK BERMAN CO., INC.
1751 S. LA CIENEGA
LOS ANGELES, CALIF.
213 870 4711
MCLOUD & RAYMOND COMPANY
2151 S. GRAPE
DENVER, COLORADO
303 756 1589
FRANK C. WICKERSON CO
1244 CLAIRMONT, STE 220
DECATUR, GEORGIA
404 636-2752
BILL KOLANS & COMPANY
P.O. BOX 2098
HONOLULU, HAWAII 96805
811 628
MARKAL SALES CORP
5787 N LINCOLN
CHICAGO, ILL 60645
312 561 7290
CRESCENT INTERNATIONAL
540 N. LAKE SHORE
CHICAGO, ILLINOIS
312 337 2292
DEVOE ASSOCIATES
4010 WASHINGTON BLVD.
INDIANAPOLIS, IND.
317 283 1395
THOMAS-MODRIN ASSOC., INC.
P.O. BOX 189
SHAWNEE MISSION, KANSAS
913 432 2131
CHARLES SEGAL CO.
799 WASHINGTON
NEWTONVILLE, MASS.
617 969 6900
R. C. MERCHANT & CO., INC.
18411 W. MCNICHOLS
DETROIT, MICH.
313 535 6000
NORTHERN STATE SALES CO
1109 W 78 1/2 ST
MINNEAPOLIS, MINNESOTA
612 333-2431
BRESSLER ASSOCIATES
4808 BERGENLINE
UNION CITY, N.J.,
201 864 9577
R. W. MITSCHER CO., INC
496 ELLICOTT SQ BLDG
BUFFALO, N.Y.
716 854 2517
NEAL BEAR CORPORATION
3435 STREETSBORO
WEST RICHFIELD, OHIO
216 659 3331
JOSEPH V. BELUSKO CO.
2355 N.W. QUIMBY
PORTLAND, OREGON
503 222 4279
NEBCO ASSOCIATES
1974 GREGORY AVENUE
MONROEVILLE, PA.
412 824-2111
SAMUEL A. JEFFRIES, INC.
105 FORREST
HARBERTH, PA.
215 664 8500
AL ENGELMAN CO.
P.O. BOX 12091
MEMPHIS, TENN.
901 458 6263
LUND & COMPANY
2215 N. OLIVE STREET
DALLAS, TEXAS
214 748 8839
REPS. IN OTHER COUNTRIES
PITT PRODUCTS, LTD.
87 WINGOLD AVENUE
TORONTO, ONT.
416 789 2621

LITTLE JOE ENTERPRISES
SALES MANAGER
ROBERT D. SIDWELL
COMPANY ADDRESS
400 3RD STREET
PORT ST. JOE, FLORIDA
COMPANY REPRESENTATIVES
JAMES H. VICKERS
P.O. BOX 40
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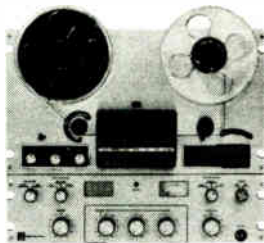
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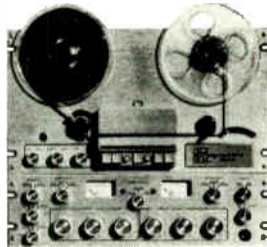
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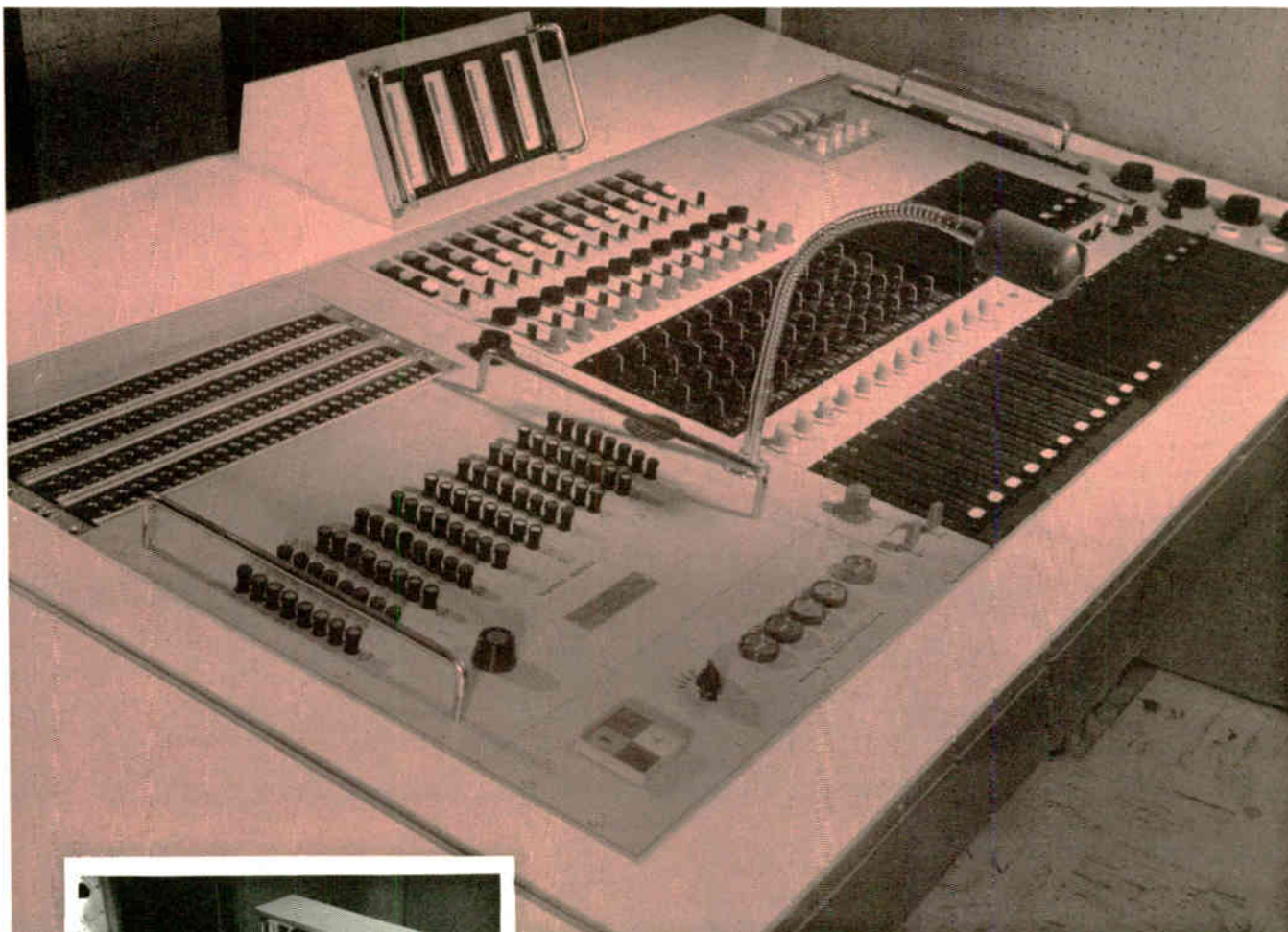
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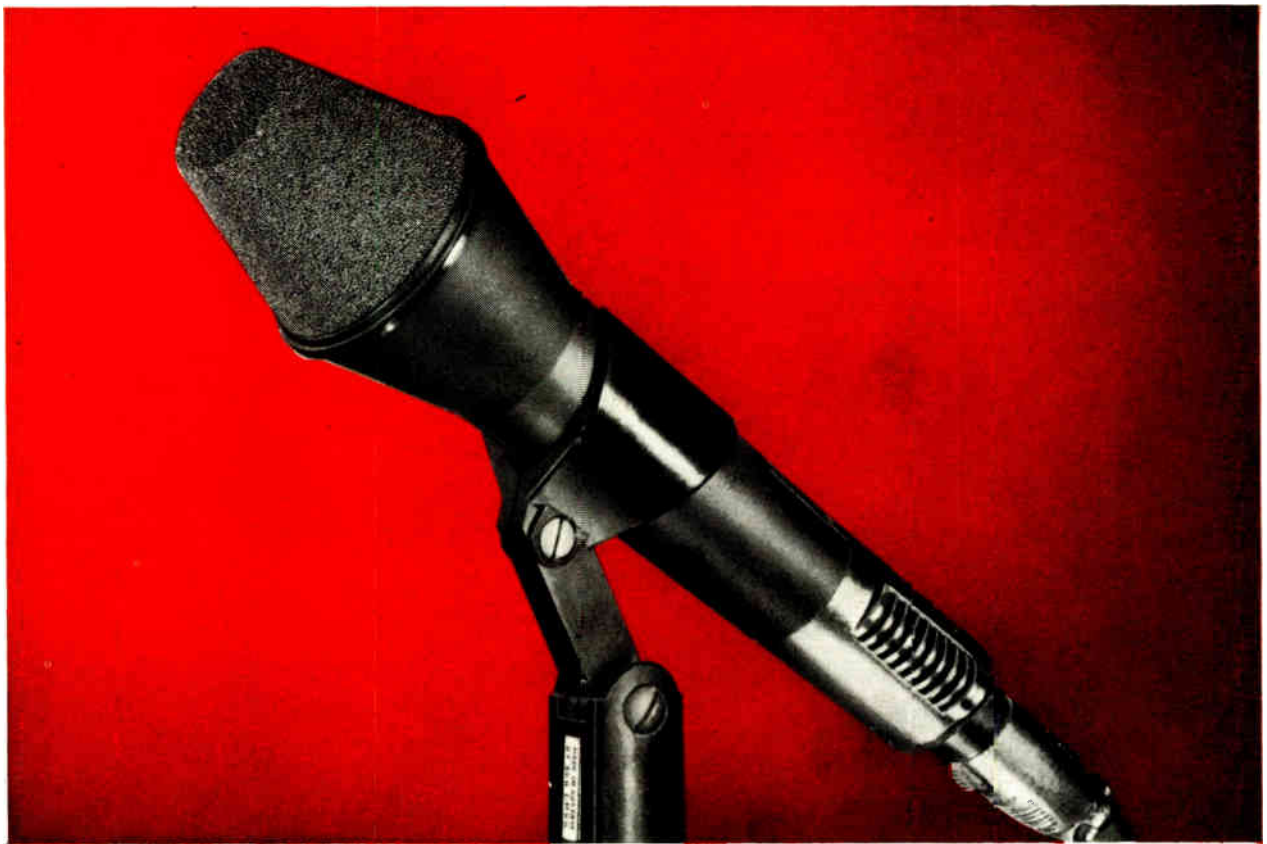
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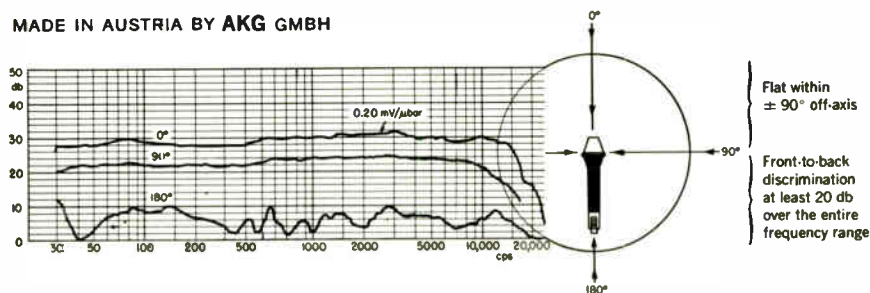


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2654 S KRAMERIA
DENVER, COLORADO
303 757 6489
ELECTRONIC SALES INC
995 SOUTH CLERMONT 302
DENVER, COLORADO
303 756 4148
G F BOHMAN ASSOCIATES
7040 LAKE ELLENOR DR
ORLANDO, FLORIDA
305 855 0274
BLIND & ASSOCIATES
1635 N GENT AVENUE
INDIANAPOLIS, IND.
317 635 6291
MCALLISTER ASSOCIATES
5460 BUENA VISTA DR
MISSION, KANSAS
816 IN 17294
RILEY & PETCHELL ELEC SALES
13209 FENKELL AVENUE
DETROIT, MICHIGAN
313 VE 8 9100
GRANT SHAFFER COMPANY
14241 FENKELL AVENUE
DETROIT 27, MICHIGAN
313 BR 3 5390
COUNTRYMAN, WAGNER & BEHNER
560 N PRIOR AVE
ST. PAUL, MINNESOTA
612 645 9151
WARNER COMMUNICATIONS
7216 ST CHARLES ROCK RD
ST. LOUIS, MISSOURI
314 PA 6 6609
BRADDOCK ASSOCIATES
P O BOX 305
HAODONFIELD, N.J.
609 429 0087
RCM ASSOCIATES
115 LEGION PLACE
HILLSDALE, N.J.
201 666 0205
CORONADO ELECTRONIC ASSOC
P O BOX 11204
ALBUQUERQUE, N.M.
505 298 2575
CORONADO ELECTRONIC ASSOC.
P O BOX 1498
ALAMOGARDO, N.M.
505 437 1745
H V SALES
1 WEST TERRACE ROAD
GREAT NECK, L I, N.Y.
516 HU 7 1192
E W HOYER ASSOCIATES
P O BOX 51
DEWITT, N.Y.
315 GI 6 3523
TECHNICAL SALES CORPORATION
BOX 187 N OAYTON STATION
DAYTON, OHIO
513 222 6522
COMARK
P O BOX 637
MEDFORD, OREGON
503 772 7592
JADE ELECTRONICS ASSOC.
P O BOX 5735
PHILADELPHIA, PENN.
215 GL 5 3355
ANTLE-SMITH
P O BOX 20361
DALLAS, TEXAS
214 FL 7 7279
LOGAN RADIO COMMUNICATIONS
2110 AVENUE J
LUBBOCK, TEXAS
806 SH 4 1433
GEORGE WEINREICH & ASSOC
11554 E NORTHWEST HWY
DALLAS, TEXAS
214 321 2800
OAK MANUFACTURING COMPANY
DIV OAK ELECTRO/NETICS CORP
SALES MANAGER
PAUL W. WHEATON
BRAND NAMES
UNIDEX-TM
MODULIN-TM
COMPANY ADDRESS
MAIN STREET
CRYSTAL LAKE, ILL 60014
815 459 5000
TWX 910 634 3353
COMPANY REPRESENTATIVES
MARCO OAK INDUSTRIES DIV
P O BOX 4011
ANAHEIM, CALIF 92803
714 KE 5 6037
MARCO OAK INDUSTRIES DIV
VILLAGE CORNER SUITE O
4546 EL CAMINO REAL
LOS ALTOS, CALIF 94022
415 941 1237 8 9
TWX 415 949 7979
I W STRONG & ASSOC INC
635 CANOSA COURT
DENVER, COLO 80204
303 292 6900 1 2 3
RICHARD PURINTON INC

P O BOX 12
COLEBROOK, CONN 06021
203 379 2501
CARTWRIGHT & BEAN
20100 N E 25 COURT
NORTH MIAMI BEACH, FLA 33160
305 425 8284
CARTWRIGHT & BEAN
609 EAST COLONIAL DRIVE
ORLANDO, FLA. 32806
305 425-8284
CARTWRIGHT & BEAN
3223 CAINS HILL PLACE NW
ATLANTA, GEORGIA 30305
404 237-2273
OAK/ELECTRONICS CORP-EXPORT
CRYSTAL LAKE, ILLINOIS 60014
815 459-5000
JACK F MC KINNEY SALES CO
2012 CONDON AVENUE
METAIRIE, LOUISIANA 70003
504 887-1723
J W SHEFFER
4609 OLD FREDERICK ROAD
BALTIMORE, MARYLAND 21229
301 CE 3 0606-7
RICHARD PURINTON INC
11 MUZZEY STREET
LEXINGTON, MASS. 02173
617 862-8300
LLOYD F MURPHY & ASSOC
770 CHICAGO AVENUE
MINNEAPOLIS, MINNESOTA 55415
612 333 4511
TWX 612 321-0894
ROBERT BARTOS
804 E ESSEX AVENUE
GLENDALE, MO. 63122
314 CH 1-4351
HENRY RICHTER, INC.
1376 U S HIGHWAY NO 22
MOUNTAINSIDE, N.J. 07092
201 AO 3-4615
GRAY-WILLIAMS ASSOC
8 E MT VERNON AVENUE
HADDONFIELD, N.J. 08033
609 429 5300
TWX 609 429-3773
HENRY G RICHTER INC
P O BOX 251
FAYETTEVILLE, NEW YORK 13066
315 637-6713
HENRY G RICHTER INC
P O BOX 194
HUNTINGTON BAY, L.I.,
NEW YORK 11101
516 HA 1-1393
EUGENE J SCHOMBERG CO
3100 MONROE AVENUE
ROCHESTER, NEW YORK 14618
716 LU 6-0725
TWX 716 221-1513
WILLIAM J COLE
838 CARINI LANE
CINCINNATI, OHIO 45218
513 825-8516
JACK F MC KINNEY SALES CO
P O BOX 3958
TULSA, OKLAHOMA 74150
918 622-2967
CARTWRIGHT & BEAN
560 SOUTH COOPER STREET
P O BOX 4760
MEMPHIS, TENNESSEE 38104
901 276-4442
JACK F MC KINNEY SALES CO
1303 CHEMICAL STREET
DALLAS, TEXAS 75207
214 631-9450
JACK F MC KINNEY SALES CO
P O BOX 1024
BELLAIRE, TEXAS 77402
713 664-3653
M K WOODKIND CO, INC
815 W EWING STREET
SEATTLE, WASHINGTON 98119
206 284-8020
OAKTRON INDUSTRIES INC
SALES MANAGER
C. E. MATTHEWS
COMPANY ADDRESS
HWY 69 SOUTH
MONROE, WISCONSIN 53566
608 325 2121
COMPANY REPRESENTATIVES
ROBERT FISSELL COMPANY
4614 N 7TH STREET
PHOENIX, ARIZONA
602 264-4031
CARTER & ROSSNEY ASSOC, INC
2600 WEST OLIVE AVENUE
BURBANK, CALIFORNIA 91505
213 843-3292
EWING ASSOCIATES
935 TERMINAL WAY
SAN CARLOS, CALIFORNIA
415 591-0309
CONNORS, INC
2241 STACEY DRIVE
DENVER, COLORADO 80221
303 428-1575
WINFIELD ELECTRONIC SALES
666 N E 125TH STREET
NORTH MIAMI, FLORIDA
305 751-5566
MILLAR HUTTO ASSOCIATES
1036 PEACHTREE STREET NE
ATLANTA, GEORGIA
404 876-0919
KLEM STEFFEN, INC
417 HARRISON STREET
OAK PARK, ILL. 60204
KNAGGS, COLLINS,
HAVERCAMP, AND HEMPE INC,
NO. 6 BANK SQUARE

E. ST. LOUIS, ILLINOIS
618 EX 7-2398
KNAGGS, COLLINS,
HAVERCAMP, AND HEMPE INC.
5818 N. OAK TRAFFIC WAY
KANSAS CITY, MO.
816 453-3203
CHARLES LIENAU COMPANY
11411 AMHERST AVENUE
WHEATON, MARYLAND
301 949-6464
KEENE SALES COMPANY
ROOM 14G PROFESSIONAL BLDG
156 BRDAD STREET
LYNN, MASSACHUSETTS
617 595-1001
DAVID MILSK COMPANY
20110 OLMPA AVENUE
OETRDIT, MICHIGAN
313 535-4012
H M RICHARDSON COMPANY
9 EAST 22ND STREET
MINNEAPOLIS, MINNESOTA
612 335-7734
JACK BROWN ASSOCIATES
207 ROSEALE ROAD
YONKERS, NEW YORK
914 SP 9-7330
LSM ASSOCIATES
PHELPS, NEW YORK
315 548-4891
SHAMROCK ELECTRONIC SALES INC
1755 WEST MARKET STREET
AKRON, OHIO 44313
216 864-3090
TANNER COMPANY
486 BROADMOOR AVENUE
PITTSBURGH, PENN. 15228
412 561-4687
THE TEXPORT COMPANY
2411 FARRINGTON STREET
DALLAS, TEXAS 75207
214 631-6270
M K WIDDEKIND COMPANY, INC
815 W EWING STREET
SEATTLE, WASHINGTON 98119
206 284-8020

OHMITE MANUFACTURING COMPANY

SALES MANAGER
TOM OAVIS
BRAND NAMES
BROWN DEVIL R
TUBEOMH R
CORRIB R
POWR-RIB R
DIVIDOMH R
OETEROMH R
LITTLE DEVIL R
OHMITE R
OHMITRAN R
RITOHM R
TAN-O-MITE R
TALLY TAPE R
WIREWATT R
V. T. R
COMPANY ADDRESS
3601 HOWARD STREET
SKOKIE, ILL 60076
312 675-2600
TWX 312 677-6704
COMPANY REPRESENTATIVES
SHEFLER-KAHN COMPANY
P O BOX 1587
PHOENIX, ARIZONA 85001
602 AL 8-7893
TWX 602 295-0226 FAX
OHMITE MANUFACTURING COMPANY
201 TOWN & COUNTRY VILLAGE
PALO ALTO, CALIFORNIA 94301
415 DA 1-6953
OHMITE MANUFACTURING CO.
6115 SELMA AVENUE
HOLLYWOOD, CALIF. 90028
213 466-3434
MC LOUD & RAYMOND COMPANY
P O BOX 22044
DENVER, COLORADO 80222
303 SK 6-1589
TWX 303 292-2931
STANLEY K WALLACE ASSOCIATES
P O BOX 67
LUTZ, FLORIDA 33549
813 949-1817
VAL SKOL SALES, INCORPORATED
510 FT WAYNE BANK BLDG
FORT WAYNE, INDIANA 46802
219 742-9122
PAUL R. STURGEON CO., INC.
1330 BOYLSTON STREET
CHESTNUT HILL, MASS. 02167
617 734-7710
OHMITE MANUFACTURING CO
P O BOX 4773
DETROIT, MICHIGAN 48219
313 537 3960
FRED B HILL COMPANY
110 EXCELSIOR BOULEVARD
MINNEAPOLIS, MINNESOTA 55416
612 929 6727
TWX 910 576-2924
H A ROES AND COMPANY
2601 CHERRY STREET
KANSAS CITY, MISSOURI 64108
816 BA1 0866
TWX 816 556-2428
RUSS O SEBRIGHT & COMPANY
7120 WEST FLORISSANT AVENUE
ST LOUIS, MISSOURI 63136
CO 1-0055
OHMITE MANUFACTURING CO
P O BOX 148
PALISADES PARK, N.J. 07650
201 947-1777
OHMITE MANUFACTURING COMPANY
3700 EAST AVENUE

ROCHESTER, NEW YORK 14618
716 381 1890
TWX 716 221-1510
OHMITE MANUFACTURING CD
P O BOX 3084
CLEVELAND, OHIO 44117
216 IV 1-7626
SAMUEL K MACDONALD, INC
1531 SPRUCE STREET
PHILADELPHIA, PENN 19102
KI 5-1205
CARTWRIGHT & BEAN
P O BOX 760
CRDSTOWN STATIDN
MEMPHIS, TENNESSEE 38104
901 276-4442
J EARL SMITH COMPANY
1353 CHEMICAL STREET
OALLAS, TEXAS 75207
214 ME 1-1727
R K SOUTHB, INC
655 N E NORTHLAKE PLACE
SEATTLE, WASHINGTON 98105
206 ME 2-2450
REPS. IN OTHER COUNTRIES
C M ROBINSON AGENCIES
1550 ERIN STREET
WINNIPEG 3, MANITOBA
SP 4-1855-6
A C SIMMONDS & SONS LTD
100 MERTON STREET
TORONTO 7, ONTARIO
416 485-9111

GUNNAR A OLSEN CORPORATION

COMPANY ADDRESS
215-11 42ND AVE,
BAYSIDE, N.Y. 11361

ONAN DIVISION OF

STUDEBAKER CORPORATION
VP MARKETING
ROY E. MULLIN
SALES MANAGER
WILLIAM J. AUGER
BRAND NAMES
ONAN
COMPANY ADDRESS
2515 UNIVERSITY AVE, S E
MINNEAPOLIS, MINN 55414

ORBIT RADIO

SALES MANAGER
S. A. CISLER
BRAND NAMES
ORBEX
ORBIT
COMPANY ADDRESS
P. O. BOX 1644
1863 ARLINGTON ST
LOUISVILLE, KY 40201
895 1143

PACIFIC TOWER COMPANY

VICE PRESIDENT-SALES
GILBERT NIELSEN
COMPANY ADDRESS
6100 N. E. COLUMBIA BLVD.,
PORTLAND, OREGON 97218

PAINTON INCORPORATED

SALES MANAGER
HOWARD M. LAYTON
COMPANY ADDRESS
109 WHEELER AVE.
PLEASANTVILLE, NEW YORK 10570
914-769-1103

PALL TRINITY MICRO CORPORATION

VICE. PRES. SALES
NICHOLAS NICKDLAUS
BRAND NAMES
AMLOC-TM
EPOCEL-R
CERTIMESH-R
DELTADYNE-R
GRAVITAIN-R
HEAT-LES-R
HX-R
PETROSORB-R
PSS-R
RIGIMESH-R
SUPRAMESH-R
SURFAMAX-R
TRINOX-R
ULTIPOR-R
COMPANY ADDRESS
ROUTE 281
CORTLAND, NEW YORK 13046
COMPANY REPRESENTATIVES
GEO S EDWARDS CO., INC
PO BOX 5913
1913-27TH AVE S
BIRMINGHAM, ALABAMA 35209
205 879 1633
TWX 205 328 3826
FRANK A THOMAS CO
PO BOX 6415
1805 LIBERTY STREET
MOBILE, ALABAMA 36606
205 471 1593
TWX 205 342 5837
BROWNLEE & MORROW ENGR
1016 S 15TH STREET
PO BOX 3245-A
BIRMINGHAM, ALABAMA 35205
205 328 5650
TRIDENT ENGR CO,
16 BEALE STREET
SAN FRANCISCO, CALIF 94105
415 986 6558
RUBLY ENGINEERING CO., INC,
1787 LARK LANE

PO BOX 2156
SUNNYVALE, CALIF 94087
408 253 6106
TWX 478 287 6624
PALL WESTERN CORP
A I C BLOG- SOUTH
8050 FLORENCE AVE
DOWNEY, CALIF 90240
213 861 1297
TWX 213 531 7059
BROOKES ENGINEERING CO
1122-12TH STREET
DENVER, COLORADO 80204
303 222 5791
PONO TECH SALES, INC
3013 DIXWELL AVENUE
HAMOEN, CONN 06518
208 288 3278
DRU KILL COMPANY, INC
PO BOX 927
MAITLAND, FLORIDA 32751
305 647 4288
THOMAS ENGINEERING CO
222-14TH STREET, NW
ATLANTA, GEORGIA 30318
404 874 4291
ENPRO, INCORPORATED
1214 SOUTH 17TH AVE
MAYWOOD, ILLINOIS 60153
312 345 1613
H G KLUG CO., INC
C/O TECHNICAL ENGR
821 BRITON AVENUE
DIXON, ILLINOIS
815 288 1265
LADY ENGINEERING CO
PO BOX 1256
AVONDALE STATION
PADUCAH, KENTUCKY 42002
502 444 6494
PAUL CONOIT CO., INC
PO BOX 52796
2744 LOCKWOOD STREET
BATON ROUGE, LA
504 357 5511
JAMES R CHISHOLM CORP
92 HUTCHINSON STREET
CORNER ROUTE C-1
REVERE, MASS 02151
617 289 4100
STEPHEN E LORD CO
PO BOX 239
LEXINGTON, MASS 02173
617 274 7302
H A REED CO
19465 JAMES COUZENS HWY
OETROIT, MICHIGAN 48235
313 347 7474
THE INDUSTRA COMPANY
6504 WALKER STREET
MINNEAPOLIS MINN 55426
612 929 6224
THE CONDIT CO
4050 BROADWAY-ROOM 208
KANSAS CITY, MISSOURI 64111
816 561-4660
PROCESS ENGRING & EQUIP CO.
710 HANLEY INDUSTRIAL CT
ST LOUIS, MISSOURI 63144
314 644 2244
TWX 314 962-3930
OURKIN EQUIPMENT CO
3010 N LINDBERGH
ST. ANN, MISSOURI 63074
314 739-0100
THE ARCHIBALD CO
55 WEST BROADWAY
PO BOX 755
BUTTE, MONTANA 59701
406 723-8975
H G KLUG CO., INC
2029 N 67TH AVE
OMAHA, NEBRASKA 68104
402 553-1377
PALL TRINCOR CORP
135 CHESTNUT STREET
ROSELLE PARK, N. J. 07204
212 259 6779
TWX 201 245-0019
ALISON CONTROLS, INC
954 KINDERKAMACK ROAD
RIVER EDGE, N. J. 07661
201 265-3737
PALL TRINCOR CORPORATION
PROFESSIONAL BLDG
MERCHANTVILLE, N. J. 08109
609 665-0855
DWENS & Co., INC
24 JORDAN STREET
SKANEATELES, N.Y.
315 685-5771
DIMPEX ASSOC., INC.
SUITE 303 EAST
200 PARK AVENUE
NEW YORK, NEW YORK 10017
212 986-7967
OWENS & Co., INC
PO BOX 1405
BUFFALO, N.Y. 11214
716 835-9166
AMERICAN TRADING CO., INC
2 BROADWAY
NEW YORK, NEW YORK 10004
212 MA 5-6300
ABERNATHY-THOMAS ENGR. CO
3809 WEONA AVENUE
CHARLOTTE, N. CAROLINA 28209
704 525-2072
THE LESTER JOHNSON CO
3909 EAST 123RD ST
CLEVELAND, OHIO 44105
216 751 7040
TWX 216 752 8024
THE LESTER JOHNSON CO
PO BOX 41197
9870 SPRINGFIELD PIKE

CINCINNATI, OHIO 45241
513 771 2270
THE LESTER JOHNSON CO
PO BOX 3
WDRTHINGTON, OHIO 43085
614 889 8447
THE CONDIT CO
PO BOX 4753
3120 5D WINSTON AVENUE
TULSA, OKLAHOMA 74114
918 743 6651
TWX 918 923 3288
BILTMORE PRODUCTS CO., INC
PO BOX 7963
466 CASTLE SHANNON BLVD
PITTSBURGH, PENN 15234
412 563 3808
G L CLAPPER
7019 MEADE STREET
PITTSBURGH, PA 15208
412 241-3737
PORTILLA CORP
PO BOX 4349
376 BARBOSA AVENUE
SAN JUAN, PUERTO RICD 00905
766 6190
ABERNATHY-THOMAS ENGR. CO
341-345 W MARKET STREET
DRAWER A
KINGSPORT, TENN 37662
615 245 6151
TWX 615 221-5109
ABERNATHY-THOMAS ENGR. CO
PO BOX 8506
NASHVILLE, TENN 37211
615 833-248C
PAUL CONOIT CO., INC
PO BOX 207094
1025 LEWALL
HOUSTON, TEXAS 77025
713 747-0802,3,4
ENGINEERED EQUIPMENT INC
PO BOX 12125
409 EXEC PARK BLVD
ROOM 205
EL PASO, TEXAS 79912
915 533-4221
ENGINEERED EQUIPMENT, INC
3617 W STOREY
MIDLAND, TEXAS 79702
915 694-4997
OYNAMATION, INC.
PO BOX 3191
BON AIR, VIRGINIA 23235
703 272-5000
CANE JESSUP CO., INC
1433-130TH NE
PO BOX 250
BELLEVUE, WASHINGTON 98004
206 454 0691
TWX 206 742-0809
BILTMORE PRODUCTS CO., INC
411-1/2 D STREET
PO BOX 8643
S CHARLESTON, W. VA, 25303
304 744-9432
ALLIED CONTROLS CO
PO BOX 8283
4840 MAC CORKLE AVE., SW
S CHARLESTON, W. VA, 25303
304 768-7313
CHIPLEY & JENSEN, INC
3500 W SHERMAN BLVD
MILWAUKEE, WISCONSIN 53216
414 442-8170
REPS. IN OTHER COUNTRIES
MARUSHO INDUSTRIAL CO., LTD.
1-4-HOME
GINZA HIGASHI
CHO-KU, TOKYO, JAPAN
JOONGWON & CO., LTD.
60, 1-KA-MYUNG-DONG
CHUNG-KU, SEOUL, KOREA
8-4325
EURO ENGINEERS, LTD.
LEE WAH BANK BLDG
MEDAN PASAR
KUALA LUMPUR, MALAYSIA
SHAHI TRADING CORP
110, TAMIZ MARKET
MADANKANAN CHITTANGONG
EAST PAKISTAN
PALL U. K.
275-281 KING STREET
HAMMERSMITH,
LONDON W. 6, ENGLAND
RIVERSIDE 8924-8
INTL. PROCESS CONTROLS-HELLAS
15 VOULIS STREET
PD BOX 400
ATHENS 126, GREECE
238 536
INTERNAL PROCESS CONTROLS
46A SHALOM ALECHEM STREET
TEL AVIV, ISRAEL
233893
GRAHAM INSTRUMENTS, LTD.
4508-6TH STREET NE
CALGARY, ALBERTA
403 276-1275
THOMAS W MAC KAY & CON. LTD
1807 FIR STREET
VANCOUVER, BRITISH COLUMBIA
604 731-6561
SCARBOROUGH & GRANT CO
12 LE PAGE COURT
DOWNSVIEW, ONTARIO
416 633-4130
ASSOC INSTRUMENTATION &
CONTROLS, LTD.
2261 ROCKLAND ROAD
MONTREAL 16, QUEBEC
514 738-1167
PALL S. A.
APARTADO POSTAL NO. 199
CO. NAUCALPAN DE JUAREZ

EDD. DE MEXICO, MEXICO
27 11 37
PALL S. A.
EDIF. SANTOS DESP 405
MONTERREY, N.L., MEXICO
6 39 80
CASUCCI S C A
PUEYREDON 225-6 P
BUENOS AIRES, ARGENTINA
FERRETERIA AMERICANA
CALLE 12 N. 9-46
BOGOTA, COLOMBIA
LIGOLD INGENIEROS, S.A.
C/D JAVIER OTTO GOLD
AV. MILITAR 2576
LINCE, LIMA, PERU
INDOQUIP C A
APARTADO 10518
SABANA GRANDE
CARACAS, VENEZUELA
34 44 11

PERMOFLUX CORPORATION

SALES MANAGER
L. M. HEINEMAN
BRAND NAMES
DIMENCI-FONES
DUO-FONES
DIMINUETTE
EARSPEAKERS
LARGO
ROYAL BLUE
STEREO-FONES
TRUE STEREO
COMPANY ADDRESS
4111 SAN FERNANDO ROAD
P. O. BOX 6364
GLENDALE, CALIF. 91204

PHELPS DODGE ELECTRONIC

PRODUCTS CORPORATION
SALES MANAGER
DAVID M. MCGALLIARD
BRAND NAMES
FOAMFLEX
HELICAL MEMBRANE
RIGID LINE
SPIRAFIL
STYROFIL
STYROFLEX
TAPERLOK
WIRELOK
COMPANY ADDRESS
60 DODGE AVE. PO BOX 187
NORTH HAVEN, CONN. 06473

PIEZO CRYSTAL COMPANY

COMPANY ADDRESS
100 K STREET
CARLISLE, PA. 17013

H K PORTER INC

SALES MANAGER
W. S. BOSWORTH
COMPANY ADDRESS
74 FOLEY ST.
SOMERVILLE, MASS. 02143

POWER-OPTICS INCORPORATED

SALES MANAGER
JACK LITTLER
BRAND NAMES
EVERSHEO
POWER-OPTICS
COMPANY ADDRESS
PLYMOUTH MEETING, PA. 19462

POWER SOURCES

DIV TECHNICAL OPERATIONS, INC

SALES MANAGER
ROBERT R. SMYTH
BRAND NAMES
SINEVERTER
COMPANY ADDRESS
SOUTH AVENUE
HURLINGTON, MASS. 01803

PRECISION LABORATORIES

DIV. OF PRECISION

CINE EQUIPMENT CORP.

SALES MANAGER
IRWIN R. SHELDDON
BRAND NAMES
PRECISION
COMPANY ADDRESS
928-930 EAST 51ST STREET
BROOKLYN, N.Y. 11203

PRECISION PIEZO SERVICE

SALES MANAGER
C. E. PEARCE
COMPANY ADDRESS
427 MAYFLOWER ST.
BATON ROUGE, LA. 70802

PRODELIN INCORPORATED

SALES MANAGER
J. M. LEVERGOOD
BRAND NAMES
RIGID 800
SPIR-O-LINE
SPIR-O-FOAM
SPIR-O-LOK
COMPANY ADDRESS
P. O. BOX 131
HIGHTSTOWN, NEW JERSEY 08520
COMPANY REPRESENTATIVES
J. M. HAMILTON
2126 BANGOR WAY
ANAHEIM, CALIF 92805
714 776-3769
PRODELIN, INC.
901 AMERICAN STREET
SAN CARLOS, CALIF 94070
415 593-8277
C. E. LINDBERG

2654 SOUTH KRAMERIA
DENVER, COLORADO 80200
303 757-6489
GENE PIETY FACTORS, INC.
PO BOX 2903
160 MOKAUEA STREET
HONOLULU, HAWAII 96800
808 837-185
BENMFWITZ ASSOC.
8310 CUTLER, N.E.
ALBUQUERQUE, N M 87110
505 299-8651
APPLIED ENGRING SALES
SUITE 200
FIRST BANK & TRUST BLDG
RICHARDSON, TEXAS 75080
214 AD 1-1322
C C S BUTT
PO BOX 18045
HOUSTON, TEXAS 77023
713 JA 6-3101
ELECTRONIC SALES CORP
PO BOX 6535
6969 SW CALIFORNIA STREET
SEATTLE, WASH. 98116
206 WE 2-0330
ELECTRONIC PRODUCTS, INC.
3612 N GREENBAY AVENUE
MILWAUKEE, WISCONSIN 53212
414 264-3380
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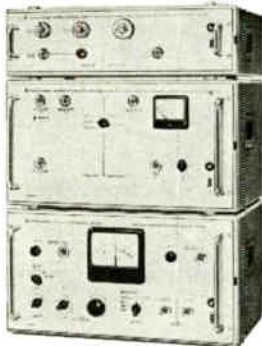

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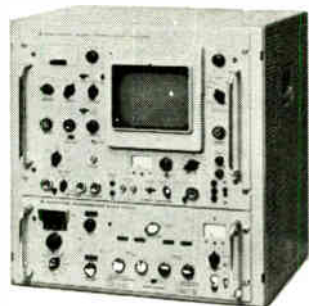
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Measure Vital Characteristics of Broadcasting Systems*

VIDEO NOISE	GROUP DELAY	FIELD STRENGTH
UPSF VIDEO NOISE METER  <p>Designed for noise voltage measurements on TV cameras, film scanners, video tape recorders, radio links, coaxial lines, TV transmitters, receivers and transposer, with synch. Signals.</p> <ul style="list-style-type: none"> • 40 Hz to 5 MHz • 7 Measurement Ranges: 1/3/10/30/100/300/1000 mVpp • True RMS or Peak-to-Peak Indications 	LFM TEST ASSEMBLY  <p>Determine group (envelope) delay of video and TV transmission systems.</p> <ul style="list-style-type: none"> • 0.1 - 10 MHz and 25-250 MHz (ext. to 1 GHz) • ± 10 to ± 1000 nsec. • Using Type SWOF sweep system group delay is instantaneously displayed on CRT. 	HUZ FIELD STRENGTH METER  <p>Covers FM, TV, aircraft, police and mobile radio bands for determining propagation conditions, polarization and radiation patterns. Used as a selective voltmeter, it measures antenna gain and cable attenuation.</p> <ul style="list-style-type: none"> • 47 to 225 MHz • $1 \mu\text{V}$ to 100 mV • FM & AM Detection • Portable, Weights only 9 lbs. • Includes Built-In Rechargeable Batteries

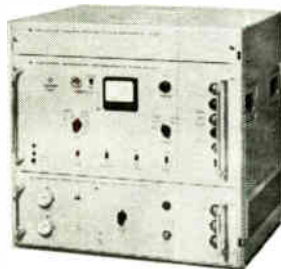
VESTIGIAL SIDEBAND ANALYSIS In the presence of synch. signals

SWEEP GENERATOR/RECEIVER



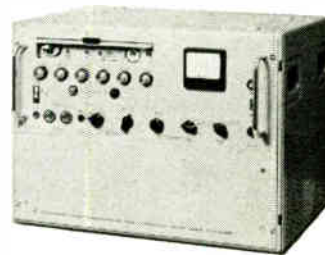
SWOF VIDEOSKOP A video sweep generator, tracking selective (3 kHz) receiver, and display unit. Range: Frequency, 20 kHz to 20 MHz, (1 GHz with sideband adapter); Sweep Width: 1 to 16 MHz, continuously variable; sweep duration 50 ms to 5.5 s.

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HOFFER ENTERPRISES
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ANCHORAGE, ALASKA 99501
HYDE ELECTRONICS CO
4710 N 16TH ST SUITE 109
PHOENIX, ARIZONA 85016
602 264-5609
V T RUPP CO
1182 LOS ALTOS AVE
LOS ALTOS, CALIF. 94022
415 948-1483
V T RUPP COMPANY
307 PARKMAN AVENUE
LOS ANGELES, CALIF. 90026
213 387-8224
V T RUPP COMPANY
3445 FIFTH AVENUE
SAN DIEGO, CALIF. 92103
714 298-8935
HYDE ELECTRONICS CO INC
888 SOUTH LIPAN STREET
DENVER, COLORADO 80223
303 936-3455
W A BROWN AND ASSOC INC
222 WEBER AVENUE
ORLANDO, FLORIDA 32803
305 425-5505
E G HOLMES AND ASSOC INC
316 1/2 SOUTH BUMBY STREET
ORLANDO, FLORIDA 32803
305 241-2128
W A BROWN AND ASSOC INC
1590 COOLEGGE ROAD
TUCKER, GEORGIA 30083
404 929-1674
E G HOLMES & ASSOC INC
3667 CLAIRMONT ROAD
CHAMBLEE, GEORGIA 30005
404 451-6161
LOREN F GREEN & ASSOC
5218 W DIVERSEY AVE
CHICAGO, ILLINOIS 60639
312 286-6824
INSTRUMENTS DYNAMICS INC
WAKEFIELD INDUSTRIAL PARK
WAKEFIELD, MASS. 01880
617 245-5100
TWIN REGION ELECT SALES INC
2547 MONROE
DEARBORN, MICHIGAN 48124
313 274-4661
LOREN F GREEN & ASSOC
3037 CENTRAL AVE N E
MINNEAPOLIS, MINN. 55418
612 781-1611
LOUIS A GARTEN & ASSOC
375 PASSAIC AVENUE
CALDWELL, N.J. 07007
201 226-7800
HYDE ELECTRONICS CO
5206 CONSTITUTION AVE NE
ALBUQUERQUE, N.M. 87110
505 265-8895
LOUIS A GARTEN & ASSOC
NEW YORK, N.Y.
212 269-4339
RJC ASSOCIATES
219 OAKRIDGE TERRACE
LIVERPOOL, N.Y. 13088
315 457-3220
W A BROWN AND ASSOC INC
440 WEST END BLVD
WINSTON-SALEM, N.C. 27101
919 725-5384
E G HOLMES & ASSOC INC
430 W GASTON STREET
GREENSBORO, N.C. 27401
919 272-0855
TWIN REGION ELECT SALES
20545 CENTER RIOGE ROAD
CLEVELAND, OHIO 44116
216 331-7650
TWIN REGION ELECTRONIC SALES
81 EAST STATE STREET
COLUMBUS, OHIO 43215
614 224-5533
LOUIS A GARTEN & ASSOC
947 OLD YORK ROAD
ARLINGTON, PA. 19001
215 927-1200
TWIN REGION ELECTRONIC SALES
201 PENN CENTER BLVD
PITTSBURGH, PENNA. 15235
412 824-1120
VIDAL ELECTRONICS CO
3403 HIGH BLUFF DRIVE
DALLAS, TEXAS 35234
214 247-4252
HYDE ELECTRONICS CO
2422 CAMINO WAY
SALT LAKE CITY, UTAH 84121
801 278-4465
W A BROWN & ASSOC INC
325 FIRST STREET
ALEXANDRIA, VIRGINIA 22305
703 836-1800

ROHN MANUFACTURING CO
SALES MANAGER
R. A. KLEINE
COMPANY ADDRESS
P O BOX 2000
PEORIA, ILL 61601
309 637-8416
TWX 309 697 1488
COMPANY REPRESENTATIVES
LOGAN SALES CO
P O BOX 1219
REWOOD CITY, CALIF

415 369 6726
 CHICK RYEL & CO
 P O BOX 762
 WOODLAND HILLS, CALIF
 213 883 8118
 R 6 D SALES CO
 420 S FEDERAL BLVD
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 MART HALLER INC - EXPORT
 P O BOX 1208
 MIAMI, FLA
 305 374 5225
 INTELECT, INC
 30 N SCHOOL ST
 HONOLULU, HAWAII
 566 366
 A M REPSUMER
 MIDWESTERN DIV SALES MGR
 P O BOX 2000
 PEORIA, ILL
 309 637 8416
 DAVID S FEHR
 EASTERN DIV SALES MGR
 509 WEBSTER ST
 MARSHFIELD, MASS
 617 834 9521
 STAN C OLSEN
 4201 WOODDALE AVE
 MINNEAPOLIS, MINN
 612 926 4158
 R W FARRIS CO INC
 1715 BALTIMORE AVE
 KANSAS CITY, MO
 816 421 1751
 DIPRO INC
 P O BOX 1427
 MARYLAND HEIGHTS, MO
 314 432 3444
 H E BLAKSLEY
 WESTERN DIV SALES MGR
 310 QUINCY ST
 RENO, NEVADA
 702 322 9300
 ANDREW A FOLEY ASSOC
 P O BOX 155
 MOORESTOWN, NEW JERSEY
 609 663-4545
 STEVE FISHER
 ELECTRONICS SALES CORP
 121 CEDAR LANE
 TEANECK, N J
 701 836 6661
 LEONARD D ALLEN INC
 P O BOX 205
 N SYRACUSE, N Y
 315 458 7470
 NEAL BEAR CORP
 3435 STREETSBOBO RD
 W RICHFIELD, OHIO
 216 659 2331
 NEBCO ASSOCIATES
 1974 GREGORY AVE
 MONROEVILLE, PA
 412 874 2111
 DIXIE ELECTRONIC ASSOC INC
 P O BOX 230
 MADISON, TENN
 615 895 5666
 MARION ATHANS
 P O BOX 134
 RICHARDSON, TEXAS
 214 231 3481
 JAS J BACKER CO
 221 W GALER ST
 SEATTLE, WASH
 206 283 6470
 REPS, IN OTHER COUNTRIES
 A L WHITEHEAD LTO
 P O BOX 25
 W VANCOUVER, B C
 604 922 1169
 R C KAHNERT SALES LTD
 359 ENFORD RD
 RICHMOND HILL, ONTARIO
 416 884 4574

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ALUMINUM CORP OF AMERICA

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 BRAND NAMES
 ROME UNIFORM
 COMPANY ADDRESS
 421 RIDGE ST.
 ROME, NEW YORK
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 715 OARIEN WAY
 SAN FRANCISCO, CALIF.
 F ROY CHRISTIAN
 715 SOUTH GILBERT ST
 ANAHEIM, CALIF.
 RICHARD E GATES
 2315 SUNNYSIOE RIDGE RD
 ROLLING HILLS, CALIF.
 RICHARD H CORZINE
 8803 HUMMINGBIRD AVE
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 FRANK K DUERT
 1961 MAR VISTA AVE
 ALTADENA, CALIF.
 E G GILMORE JR
 2629 WEST LINCOLN AVE
 MONTEBELLO, CALIF.
 ROBERT D GOLLY
 301 SCYAMORE ST
 SAN CARLOS, CALIF.
 STEWART JOHNSTON
 157 ELKINS PLACE
 ARCADIA, CALIF.
 H LEE RAWLINGS
 37 GRESHAM LANE
 ATHERTON, CALIF.
 GEORGE H REMELMAN
 631 PICO AVE

SAN MATEO, CALIF. 94400
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 1655 KAMSOCK DRIVE
 SUNNYVALE, CALIF. 94087
 ORIS O STEDMAN
 2304 WESTBORO AVE
 ALHAMBRA, CALIFORNIA
 JOHN W HAYES
 10 ODVER ROAD
 WESTPORT, CONNECTICUT
 DONALD A SEELERS
 7056 PONCE DELEON AVE
 JACKSONVILLE, FLORIDA
 THOMAS M MARTIN
 2860 PINE GROVE TERR NE APT3
 ATLANTA, GA. 30319
 WALTER J MCCANN
 3115 ASCOT COURT
 CHAMBLEE, GA.
 F DOYLE RUCKER
 3412 SPREADING OAK ORIVE SW
 ATLANTA, GA. 30311
 EUGENE C WEST
 1488 RUNNYMEADE N F
 ATLANTA, GA. 30319
 RICHARD T EDWARDS JR
 P O BOX 421
 27 W 186 CARREL ST
 WINFIELD, ILL. 60190
 ATO C SHANNON
 1313 NO 43RD ST
 EAST ST. LOUIS, ILL. 62204
 THOMAS C SPRIGGS
 1980 BERKELEY RD
 HIGHLAND PARK, ILLINOIS
 ROBERT K VAN SLYKE
 487 AZTEC DRIVE CAROL STREAM
 WHEATON, ILLINOIS 60187
 RICHARD BLAKE SHANNON
 1716 MINTURN LANE
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 MISS NORMA BRACKMAN
 23 THAYER RD
 BELMONT, MASS. 02178
 R T GILDERSLEEVE
 18 ELLIOTT CIRCLE
 NO. EASTON, MASS. 02356
 T S GILDERSLEEVE
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 ODVER, MASS. 02030
 JOHN F MELAVIN
 331 BOYLSTON ST
 BROCKTON, MASS. 02400
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 BIRMINGHAM, MICH 48010
 313 626-1801
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 7100 BROOKRIDGE DRIVE
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 PAUL R OCONNOP
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 RIDGEWOOD, NEW JERSEY
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 215 PETERSON DRIVE
 CAMILLUS, NEW YORK
 STEPHEN J LADDICK
 1943 JACKSON ROAD
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 6265 STAFFORD DRIVE
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 10631 CINDERELLA OR
 CINCINNATI, OHID
 ROBERT R DAVIS
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 G E ROLSTON JR
 12 HARVARO ORIVE
 MEDIA, PA. 19063
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 223 ROSEBRIAR AVE
 GLENSHAM, PA. 15116
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 4326 WAYNESBORO
 HOUSTON, TEXAS
 G W PARKER
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 DALLAS, TEXAS
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 10703 VALLEY FORGE ORIVE
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 OALLAS, TEX 75228
 OA 8-7913
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 ARLINGTON, TEXAS 76010
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 8213 GALWAY LANE
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 5233 127TH S E AVE
 BELLEVUE, WASH. 98004
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 HASBROUCK LANE
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 PALO ALTO, CALIF.
 ROTRON/PACIFIC
 GLENDALE, CALIF.
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 GOSSARD AND ASSOCIATES
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 303 985-0602
 G F BOHMAN ASSOCIATES
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 CHICAGO, ILL.
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 THOMAS AND MOORCIN ASSOC
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 913 432-2131
 CIRCUIT SALES COMPANY
 WAKEFIELD, MASS.
 617 245-5320
 CARRIER AND GABLE INC
 DETROIT, MICH.
 313 961-1786
 E C ELECTRONIC SALES
 MINNEAPOLIS, MINN.
 612 888-4626
 F F SYLVESTER ASSOCIATES
 SPRINGFIELD, N.J.
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 MARTIN P ANDREWS INC
 FAYETTEVILLE, N.Y.
 315 637-3144
 F J CAMPISANO
 CINCINNATI, OHIO
 513 662-1616
 COMPONENTS ENGINEERING CO
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 216 842-2737
 AMMON AND CHAMPION
 TULSA, OKLA.
 918 627-7670
 ROTRON ENGINEERING SALES OFF
 BALA-CYNYWD, PA.
 215 664-4337
 AMMON AND CHAMPION
 DALLAS, TEXAS
 214 357-8441
 AMMON AND CHAMPION
 HOUSTON, TEXAS
 713 729-1233
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 SEATTLE, WASHINGTON
 206 524-5170

ROUND HILL ASSOCIATES

SALES MANAGER
 R. E. MORRIS
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 NEW YORK, NEW YORK 10011

RUSSCO ELECTRONICS MFG. INC.

SALES MANAGER
 RUSSELL C. FRIENO
 COMPANY ADDRESS
 6879 N. SUNNYSIDE
 CLOVIS, CALIF. 93612
 COMPANY REPRESENTATIVES
 OUNLAP ELECTRONICS
 1750 EAST MCKINLEY
 FRESNO, CALIF.
 485-3060
 HIGHLAND ASSOCIATES
 600 MARBLE STREET
 BROOMFIELD, COLORADO
 ELECTRONIC EQUIP INC
 526 PLASTER AVE NE
 ATLANTA, GEORGIA 30324
 876-8373
 BISCAVNE AUDIO CO.
 P O BOX 543
 OETROIT, MICH. 48232
 THE LEW-BONN CO
 1211 LASALLE AVE
 MINNEAPOLIS, MINN. 55403
 BROADCAST RECORDING SERV
 BOX 104 R R 1
 LDVELAND, OHIO
 RADIO SUPPLY INC
 P O BOX 1972
 724 NO HUOSON
 OKLAHOMA, OKLA.
 BROADCAST EQUIP & SUPPLY
 BRISTOL, TENN. 37623
 MARTI ELECTRONICS
 105 POINDEXTER
 CLEBURNE, TEXAS
 GAR-TRONIC
 3135 WESTERN AVENUE
 SEATTLE, WASH. 98121

F. B. RYAN MFG. CO., INC.

RESIDENT
 JIM F. RYAN
 BRAND NAMES
 RYAN

COMPANY ADDRESS
 BOX 451
 CHARITON, IOWA 50049

HOWARD W SAMS & CO INC

SALES MANAGER
 TOM SURBER
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 PHOTOFACT
 COUNTER-FACTS
 SAMS TECHNICAL INSTITUTE
 SAMS TECHNICAL BOOKS
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 EDITORS & ENGINEERS
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 4300 WEST 62ND STREET
 INDIANAPOLIS, INDIANA 46206
 317 291 3100

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MARKETING MGR
 BROADCAST EQUIPMENT DIV
 RUSS 10E
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 BLOOMINGTON, INDIANA 47401
 COMPANY REPRESENTATIVES
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 112 GALLATIN STREET S. W.
 HUNTSVILLE, ALABAMA
 205 536 9121
 W BERT KNIGHT CO
 P O BOX 11394
 PHOENIX, ARIZONA
 602 264 3578
 OLIVER BJERKE
 3237 BENTON
 SANTA CLARA, CALIF
 408 248 8975
 MOULTHROP & HUNTER
 165 11TH STREET
 SAN FRANCISCO, CALIF 94103
 415 UN 3 7880
 W BERT KNIGHT CO
 112 GLASGOW AVE
 INGLEWOOD, CALIF 90301
 213 678 4711
 MC LOUD & RAYMOND CO
 PO BOX 22044
 DENVER, COLORADO 80222
 303 SK 6 1589
 GERBER SALES CO INC
 31 BROADWAY ST P O BOX 2917
 NEW HAVEN, CONN
 203 SP M 6279
 MURPHY & COTA
 712 WEST VASSAR AVENUE
 ORLANDO, FLORIDA
 305 GA 4 2167
 NUBAR DONOYAN
 3620 RIDGEWOOD ROAD, NW
 ATLANTA, GEORGIA
 404 233 3311
 RICHARD J. DOUGHERTY
 931 WILLOW LANE
 DUNDEE, ILLINOIS
 312 428 2877
 JOHN G TWIST CO
 5222 W DIVERSEY
 CHICAGO, ILLINOIS 60639
 312 777 2250
 MORRELL & BEAVERS
 2644 NORTH SEVENTH
 TERRE HAUTE, INDIANA
 NORTH 3845
 LESLIE DE VOE CO
 4010 WASHINGTON BLVD
 INDIANAPOLIS, INDIANA 46205
 317 AT 3 1395
 THUMERBIRD SALES
 3802 W 95TH STREET
 LEANWOOD, KANSAS 66206
 913 NI 2 7220
 THUMERBIRD SALES
 6405 E KELLOGG
 WICHITA, KANSAS 67207
 316 684 3941
 J H ELECTRONIC SALES
 P O BOX 6844
 TOWSON, MARYLAND 21204
 301 VA 5 4441
 JOE RYAN
 201 CHESTNUT
 EAST LONGMEADOW, MASS
 413 525 6553
 GERBER SALES CO INC
 176 2ND AVENUE
 WALTHAM, MASS 02154
 617 891 8040
 GERBER SALES CO INC
 P O BOX 447
 EAST LONG MEADOW, MASS01461
 413 525 3059
 GRANT SHAFFER CO
 14241 FENKELL AVENUE
 DETROIT, MICHIGAN 48227
 313 BR 3 5390
 SCDDT ELECTRONIC SALES
 5209 W 60TH STREET
 MINNEAPOLIS, MINNESOTA 55423
 612 929 2985
 THUNORBERO SALES
 PO BOX 6156
 ST LOUIS MISSOURI 63145
 314 TE 8 6888
 SIMBERKOFF SALES INC
 71 VALLEY STREET
 SOUTH ORANGE, NEW JERSEY
 201 763 7900
 J H ELECTRONIC SALES
 P O BOX 159

MOORESTOWN, NEW JERSEY
609 665 6142
SIMBEROFF SALES INC
1072 SWEET ROAD
EAST AURORA, NEW YORK
716 652 1997
MURPHY & COTA
1106 BURKE STREET
WINSTON-SALEM, N. C. 27101
919 PA 4 0750
CHAS H DOLFUSS JR & CO
2108 PAYNE AVE
ROOM 707
CLEVELAND, OHIO 44114
216 PR 1 1270
GENE S ROOT & CO
809 WAINWRIGHT DR
PITTSBURGH, PENN. 15228
412 LO 1 4125
GORDON PETERS
PO BOX 912
ARLINGTON, TEXAS
817 275 0170
JOHN GUENTHER CO
4533 N CENTRAL EXPRESSWAY
DALLAS, TEXAS 75205
714 LA 8 6286
JACK RODEN
4704 GROVES LANE
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703 273 6171
M K WIDDEKIND CO
PO BOX 9029
815 W EWING STREET
SEATTLE, WASHINGTON 98119
206 AT 4 8020

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SALES MANAGER
MARK KLEINER
BRAND NAMES
TWIN FOAM
LIFELINE
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215 NORTH ROUTE 303
CONGERS, NEW YORK 10920
COMPANY REPRESENTATIVES
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1085 CLARENON CRESCENT
OAKLAND 10, CALIFORNIA
415 451 3428
I R STERN & CO
P O BOX 1218
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BURBANK, CALIF
213 VI 9 1195
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226 E VERMIJO
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303 633 4795
JOHN COLAVECCHIO
122 GRANT STREET
HARTFORD, CONN
203 522 0596
FRANK MELLON & SONS
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SARASOTA, FLORIDA
813 955 8692
DAVID ABO
C/O SPA MOTEL
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CHICAGO, ILL
PENZNER ASSOC
P O BOX 4362
OVERLAND PARK, KAN
913 DU 1 0004
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19375 JAMES COUZENS HWY
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313 342 6660
PENZNER ASSOC
4400A MINNESOTA AVENUE
ST LOUIS, MO
PHIL MELLER
609 WEST 189TH STREET
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E B MILLER ASSOC
200 FIFTH AVENUE
NEW YORK CITY, NEW YORK
PAUL & JERRY ASSOC
1133 BROADWAY
NEW YORK CITY, NEW YORK
212 675 3565
IRV GUDIN
29-10 137TH STREET
FLUSHING, L I NEW YORK
212 IN 3 3622
MIKE OAVIOOFF
67-28 78TH STREET
MIDDLEVILLAGE, NEW YORK
LARRY FLEINSTEIN
1515 ROBBINS ST
PHILADELPHIA, PA
215 LU 9 4893
C S BUTT
P O BOX 18045
HOUSTON, TEXAS 77023
713 JA 6 3101
SAM GILLER SALES
2614A ELM STREET
DALLAS, TEXAS
214 RI 8 7573

SCALA RADIO CORPORATION
BRAND NAMES
PARAFLECTOR
PARASLOT
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1970 REPUBLIC AVE.
SAN LEANDRO, CALIF. 94577

SCHAFER ELECTRONICS
COMPANY ADDRESS
9119 DE SOTO AVENUE
CHATSWORTH, CALIF. 91311

ALBERT SCHULTZ INCORPORATED
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STANLEY ATSIOTIS
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116 WEST 14 STREET
NEW YORK, NEW YORK 10011

SCIENTIFIC-ATLANTA INC
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TOM D. SMITH
BRAND NAMES
QUADRATE CHANNELER
ULTRA CHANNELER
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OPTIMA
SCIENTIFIC-ATLANTA
COMPANY ADDRESS
P. O. BOX 13654
ATLANTA, GA. 30324
COMPANY REPRESENTATIVES
SCIENTIFIC ATLANTA INC
1000 E WALNUT ST
PASADENA, CALIF 91106
213 796 1616
KELLEY ENTERPRISES
336 EAST FOURTH ST
LOVELAND, COLORADO 80537
303 667 1376
COZZENS & CUDAHY INC
125 OLD ORCHARD ARCADE
SKOKIE, ILL 60079
312 675 6700
SCIENTIFIC ATLANTA INC
5801 ANNAPOLIS RD
HYATTSVILLE, MD 20784
301 779 1515
SCIENTIFIC ATLANTA INC
235 BEAR HILL RD
WALTHAM, MASS D2154
617 899 4597
SCIENTIFIC ATLANTA INC
ROUTE 27 & PARSONAGE RD
MENLO PARK, NEW JERSEY 08837
201 549 7515
DB ASSOCIATES INC
3307 ERIE BOULEVARD
E. DEWITT, NEW YORK 13214
315 446 0220
MICRO SALES CORP
3300 SOUTH DIXIE DRIVE
DAYTON, OHIO 45439
513 298 3033
SCIENTIFIC ATLANTA INC
SUITE 435, BRANIFF TOWER
DALLAS, TEXAS 75235
214 357 1855
CAREY-WOLF COMPANY
3327 WINTHROP AVENUE
FORT WORTH, TEXAS 76116
817 738 1702
SHOWALTER-JUOD INC
1806 S BUSH PL
SEATTLE, WASH 98144
206 324 7911
REPS IN OTHER COUNTRIES
RADIONICS LIMITED
8230 MAYRANO ST
MONTREAL, QUEBEC
514 739 5517

H. H. SCOTT, INCORPORATED
BRAND NAMES
H. H. SCOTT
SCOTT
SCOTTKIT
SCOTTSMAN
OYNAURAL
COMPANY ADDRESS
111 POWDER MILL ROAD
MAYNARD, MASS. 01754
COMPANY REPRESENTATIVES
SHEFLER KAHN CO
P O BOX 1587
2017 NORTH 7TH ST
PHOENIX, ARIZ
602 AL 8 7893
W K GEIST CO
1205 AIR WAY P O BOX 5004
GLENDALE, CALIF 91201
213 745-9501
TWX 213 240 2190
JOHN FALSTAD
W K GEIST CO
P O BOX 746
CUPERTINO, CALIF 95129
415 968 1608
TWX 408 287 6614
R MARK MARKMAN CO
4142 LANERSHIM BLVD
NO HOLLYWOOD, CALIF 91602
213 877 3368
W K GEIST CO
7267 BARK LANE
SAN JOSE, CALIF
408 253 5433
F W MOULTHROP & ASSOC
1530 E 12TH ST
OAKLAND, CAL 94606
415 261-7676
TWX 415 891 9230
R & D SALES COMPANY
1468 SO FEDERAL BLVD
OENVER, COLORADO 80219
303 934 5445
DICKFRSON ENGR SALES CO
P O BOX 876
905 HARBOR CITY BOULEVARD
EAU GALLIE, FLORIDA 32935
305 254 1591
DOW FITZGERALD
R A CHALMERS & CO
P O BOX 19218
6231 S CHURCH ST
TAMPA, FLORIDA

R A CHALMERS & CO
349 PEACHTREE HILLS AVE N E
ATLANTA, GA 30305
404 233 3208-9
M ANO M LTD
P O BOX 9027
1754 ALA MAHAMOE ST
HONOLULU, HAWAII 96820
893 967
MIDWEST ELECTRONIC SALES
5707 W DIVISION STREET
CHICAGO, ILLINOIS 60651
312 626-0030
TWX 312 265 1415
JKM INC
6611 N CLARK ST
CHICAGO, ILL 60626
312 465 2622
GARLAND RED GRAHAM
MIDWEST ELECTRONIC SALES
5462 EAST 40TH ST
INDIANAPOLIS, INDIANA
317 547 3259
COURIER SALES
2070 E 54TH STREET, NO 6
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317 251 2401
W M HAGUE CO
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LEXINGTON, MASS 02173
617 862 5700
TECHNICAL RESOURCES INC-XPRT
600 MAIN STREET
WALTHAM, MASS 02154
617 899 3741-2
GROSSMAN SALES CO INC
339 AUBURN ST
AUBURNDALE, MASS 02166
617 LA 7 7753
RUTCHART RATHSBURG & ASSOC
15637 E WARREN AVE
DETROIT, MICH 48224
313 882-1717
TWX 313 886 1879
CLARK R GIBB CO
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612 377 1200
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Mr. Weiner, left, demonstrates Scully 280's to Program Director John Dale.

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617 254 7870
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816 DE 3 7914
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201 678 8810
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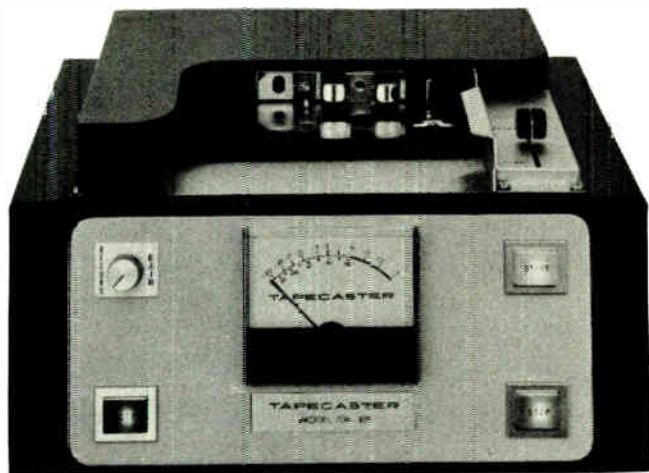
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801 466 8631

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TWX 617 444-1931
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415 591-7511
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REG SLS MGR - EASTERN DIV.
P O BOX 9 HUGHES FORD ROAD
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301 662-3264

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BALA CYNWYD, PA. 19004
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TELTRON
EDICOM
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203 929-1945
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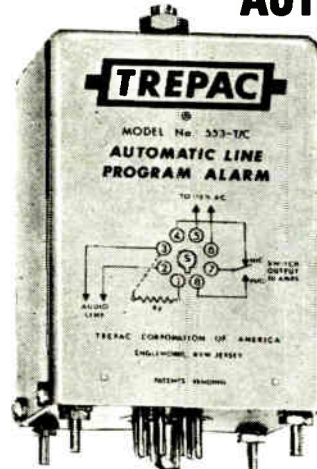
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- TROUBLE FREE
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We Guarantee
it for 5 Years

TREPAC MODEL 553 T/C AUTOMATIC PROGRAM ALARM senses variations of signal level, and provides automatic control of alarm or other associated equipment. It eliminates the need for continuous personal attention. The unit is activated whenever line program audio level deteriorates below a preset threshold.

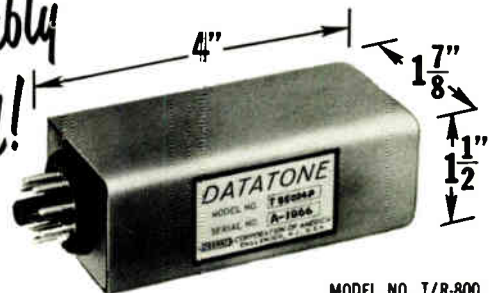
The output power "switches" either off or on as desired when audio level drops for a specific length of time. In the absence of a signal, the unit will "switch" off after a fixed duration. Whenever audio programming returns to its nominal level, the output control "switches" on. All "switching" is done automatically.

Accurate time control predetermines wide range of timing intervals available. The time duration (or delay) is adjustable from 0.1 seconds to as long as 30 minutes, depending on the application.

DATATONE® TRANSMITTERS RECEIVERS

MINIATURIZED TRANSISTORIZED SOLID/STATE NO TUNED REEDS NO TUNING FORKS

Sensibly priced!



MODEL NO. T/R-800

SPECIFICATIONS

DATATONE TRANSMITTER: Designed to bridge a 600 ohm transmission line with less than 1 db loading and through contact closure deliver an undistorted tone signal level of 1 Milliwatt. Calibrated internal attenuator permits setting output level to required signaling condition by simple terminal strapping.

DATATONE RECEIVER: Designed to bridge a 600 ohm transmission line with less than 0.5 db loading, and close contacts or power an external relay load upon receiving a tone pulse from its companion transmitter. A full dynamic range of greater than 35 db and a sensitivity of -35 dbm with sharp skirt filters, assures reliable operation with adjacent channel separation of as little as 100 cycles.

Both units are rated for continuous operation over a temperature range of 0°C to 50°C from a 12/24/48 VDC supply.

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52 WALL STREET
NEW YORK, N.Y. 10D05
212 WH 4-4370
CARTWRIGHT & BEAN
525 HARWYN DRIVE
CHARLOTTE, N.C. 28205
704 537-7965
R O WHITESELL ASSOC
1172 W GALBRAITH
CINCINNATI, OHIO 45231
513 521-2290; 91
TWX 513 577-1750
R O WHITESELL ASSOC
21139 LORAIN AVENUE
HAGEL BLDG.
CLEVELAND, OHIO 44126
216 333-2585
TWX 216 333-3250
R O WHITESELL ASSOC
1351 W FIFTH AVENUE
COLUMBUS, OHIO
614 488-9731
TWX 614 759-0680
R O WHITESELL ASSOC
4133 S DIXIE AVENUE
DAYTON, OHIO 45439
513 298-9546
TWX 513 944-0526
ARNESON ASSOC
P O BOX 12067
PORTLAND, OREGON 97212
503 646-3416
TRW SEMICONDUCTORS INC
P O BOX 11587
PHILADELPHIA, PA. 19116
215 687-1700
R O WHITESELL ASSOC
PENN CENTER BLDG
201 PENN CENTER BLVD
PITTSBURGH, PA. 15235
412 742-0100
CARTWRIGHT & BEAN
560 SOUTH COOPER STREET
P O BOX 760
MEMPHIS, TENN. 38104
901 276-4442
VISTA ENGINEERING
FIRST BANK & TRUST BLDG
SUITE 430
RICHARDSON, TEXAS 75080
214 235-4547
TWX 214 231-1400
VISTA ENGINEERING
7007 RATON DRIVE
HOUSTON, TEXAS
713 NA 2-5680
ARNESON ASSOC
74 S LUCILE STREET
SEATTLE, WASH. 98134
206 725-7664
E A DICKINSON ASSOC INC
3612 GREENBAY AVENUE
MILWAUKEE, WISCONSIN 53212
414 264-1080
REPS. IN OTHER COUNTRIES
MITSUBISHI TRW COMPANY
MITSUBISHI OENKI BLDG
2-12 MARUNOUCHI CHIYODO-KU
TOKYO, JAPAN
212-6111
E V JOHANSEN A/S
ST KONGENSGADE 93
COPENHAGEN K, DENMARK
PALACE 7510
TECHNIQUE ET PRODUITS
63 BIS RUE D AGUESSEAU
BOULOGNE, SUR SEINE, FRANCE
408-14-00
HEK-GMBH LUBECK
2400 LUEBECK
POSTLACH 1817, WEST GERMANY
52991
M C P ELECTRONICS
STATION WHARF WORKS
ALPERTON, WEMBLEY
MIDDLESEX, ENGLAND
WEMBLEY 1191
TELEINSTRUMENT AB
BOX 14,
VALLINGBY, SWEDEN
870345
BAERLOCHER AG
ZURICH, SWITZERLAND
51-429900
E G LOMAS LTO
227 LAURIER AVE W
OTTAWA, ONTARIO
613 CE 2-7106
JACOBY, MITCHELL
469-475 KENT STREET
SYDNEY, N.S.W. AUSTRALIA
26-2651

TRYLON, INCORPORATED
DIRECTOR OF MARKETING
THOMAS R. HUMPHREY
BRAND NAMES
TRYLON
COMPANY ADDRESS
ELVERSON, PA. 19520
COMPANY REPRESENTATIVES
SAM G HARRIS
2437 JACKSON PKWY
VIENNA, VA.
703 560-4545

T T ELECTRONICS, INC.
SALES MANAGER
J. F. SODAR
COMPANY ADDRESS
BOX 187
CULVER CITY, CALIF. 90230

TURNER MICROPHONE COMPANY
SALES MANAGER
DOUG BATTIN
BRAND NAMES
TURNER
COMPANY ADDRESS
902 17TH STREET
CEDAR RAPIDS, IOWA 52402
COMPANY REPRESENTATIVES
MORRIS F TAYLOR COMPANY
2328 3RD WAY NE
BIRMINGHAM, ALA. 35215
205 853-3673
WES ALDERSON COMPANY
8548 WASHINGTON BLVD
CULVER CITY, CALIF. 90231
213 VE 7-1398
LOGAN SALES COMPANY
463 BREWSTER AVENUE BOX 1219
REDWOOD CITY, CALIF. 94063
415 369-6726
GORDON MOSS ELECTRONICS INC
1530 13TH AVENUE
P O BOX J
GREELEY, COLORADO
303 353-1452
GORDON MOSS ELECTRONICS INC
P O BOX 26172
DENVER, COLORADO 80226
303 936-4027
COAKLEY BOYO & ABBETT INC
6 GAYWOOD DRIVE
WATERBURY, CONN.
203 756-8766
MORRIS F TAYLOR COMPANY
940 LAKE ELBERT DRIVE
WINTER HAVEN, FLORIDA 33880
813 CY 4-2941
MORRIS F TAYLOR COMPANY
P O BOX 488 MAIL
261 LAKE TRIPLE DR.
CASSELLBERRY, FLORIDA
305 838-0821
MORRIS F TAYLOR COMPANY
5908 KENNETH AVENUE
TAMPA, FLORIDA 33604
813 238 2738
WM M LINZ & ASSOC
4001 WEST OEVON
CHICAGO, ILLINOIS 60646
312 MU 5-6D60
MORRIS-CUNNINGHAM & ASSOC
6208 NORTH COLLEGE AVENUE
INDIANAPOLIS, INDIANA 46220
317 CL 5-2458
KELLY-SCHMITZ-WINKLER ASSOC
3831 43RD STREET
OES MOINES, IOWA
515 CR 9-9235
SCOTT ORMSBY SALES
230 20TH STREET
NEW ORLEANS, LOUISIANA 70124
504 488-2414
MORRIS F TAYLOR COMPANY
9431 GEORGIA AVENUE BOX 111
SILVER SPRING, MARYLAND 20907
301 JU 9-4002
MORRIS F TAYLOR COMPANY
3601 ADAMS DRIVE
SILVER SPRING, MD. 20902
301 WH 6-3569
COAKLEY BOYO & ABBETT INC
P O BOX 248 1424 HIGHLAND
NEEDHAM, MASS. 02192
617 444-5470
R A ALBRECHT COMPANY
221 LONESOME OAK ROAD
ROCHESTER, MICHIGAN 48063
313 651-7081
STAN CLOTHIER COMPANY INC
12 WEST 98TH STREET
MINNEAPOLIS, MINN. 55419
612 869-3231
SCOTT ORMSBY SALES CO
147 CARTER ROAD
BILOXI, MISS.
601 432-8467
KELLY-SCHMITZ-WINKLER ASSOC
7546 TROOST AVENUE
KANSAS CITY, MISSOURI 64131
816 EM 3-5651
KELLY-SCHMITZ-WINKLER ASSOC
2319 HAMPTON AVENUE
ST. LOUIS, MO. 63139
314 ST 1-6111
WILLGOLD ELECTRONIC SALES
18 OLD FARM ROAD
NORTH CALDWELL, N.J.
201 CA 6-8363
WILLGOLD ELECTRONIC SALES
53 ARTHUR DRIVE
PARSIPPANY, N.J. 07054
MORRIS F TAYLOR COMPANY
P O BOX 23
MARTLON, N.J. 08053

215 MA 2-0383
 GORDON MOSS ELECTRONICS INC
 2418 BARCELONA DRIVE S W
 ALBUQUERQUE, N.M., 87105
 505 877-9392
 WILLGOLD ELECTRONIC SALES
 100 NORTH VILLAGE AVE
 ROCKVILLE CENTRE, N.Y. 11571
 516 764-4022
 MARSEY SALES INC
 206 PARK AVENUE
 ROCHESTER, N.Y. 14607
 716 442-9700
 MORRIS F TAYLOR COMPANY
 1224 DRESDEN DR., WEST
 CHARLOTTE, N.C. 28205
 704 KE 7-4878
 LES A MORROW COMPANY
 3123 WEST 117TH STREET
 CLEVELAND, OHIO 44111
 216 CL 1-7700
 MORRIS F TAYLOR COMPANY
 201 PENN CENTER BLVD.
 PITTSBURGH, PA. 15235
 412 823-8400
 MORRIS F TAYLOR COMPANY
 APT 105, 9 RICHLAND LANE
 CAMP HILL, PA. 17011
 717 233-3112
 ERNEST L WILKS COMPANY
 1821 NORTH BROADWAY
 CARROLLTON, TEXAS
 214 CH 2-5321
 GORDON MOSS ELECTRONICS INC
 1502 PRESTON STREET
 BOX 8022 Foothills Station
 SALT LAKE CITY 8, UTAH
 801 485-2870
 M K WIDDEKIND COMPANY
 815 W EWING STREET
 SEATTLE, WASH. 98119
 AT 4-8020

TV CABLE SUPPLY COMPANY
 SALES MANAGER
 JAMES E. MORTON
 BRAND NAMES
 TVC
 VIDEO INSTRUMENT
 COMPANY ADDRESS
 BOX 38
 CARLISLE, PA. 17013

ULTRA AUDIO PRODUCTS
ELDOM INDUSTRIES, INC
 SALES MANAGER
 DON OLIVER
 BRAND NAMES
 SOUNDDESIGN
 CUSTOMIZER
 CIRCUITESTER
 SPECTACULITE
 COMPANY ADDRESS
 1140 S. ROBERTSON BLVD.
 LOS ANGELES, CALIF. 90035

UNGAR ELECTRIC TOOLS
ELECTRONIC DIVISION OF
ELDOM INDUSTRIES, INC
 SALES MANAGER
 W. L. NEMRENZ
 BRAND NAMES
 IMPERIAL
 MINI-TIP
 MICRO-TIP
 PRINCESS
 UNGAR
 COMPANY ADDRESS
 2701 W. EL SEGUNDO BLVD.
 HAWTHORNE, CALIF. 90252
 213 757-2151
 COMPANY REPRESENTATIVES
 MORRIS F TAYLOR CO
 2328 3RD WAY, NE
 BIRMINGHAM, ALA. 35215
 205 853-3673
 UNGAR SALES ASSOC
 317 GLASGOW AVE
 INGLEWOOD, CALIF 9D3D1
 213 678-3371
 ELVEY-PROCTOR CO
 1650 LAUREL ST
 SAN CARLOS, CALIF 94071
 415 593-1121
 KOETHER-COX CO
 1325 SOUTH INCA ST
 DENVER, COLO 80223
 303 773-5561
 MORRIS F TAYLOR CO
 5908 KENNETH AVE
 TAMPA, FLORIDA 33604
 813 238-2738
 G MCL COLE CO
 6514 WEST HIGGINS ROAD
 CHICAGO, ILL. 60656
 312 774-3535
 FRANK MCSWEENEY CO
 4123 N KEYSTONE BLVD
 INDIANAPOLIS, IND 46205
 317 547-2112
 STANLEY A HARRIS CO
 60 DEDHAM AVE
 NEEDHAM, MASS 02192
 617 444-4780
 ROBERT MILSK CO
 19375 JAMES COUZENS HWY
 DETROIT, MICH 48235
 313 342-6660
 RAY RIPLEY & ASSOC
 6838 PILLSBURY AVE SO
 MINNEAPOLIS, MINN 55423
 612 866-8682
 L R MASSEY CO
 304 E JEFFERSON ST
 GREENWOOD, MISS 38930

601 443-3038
 DIPRO INC
 P D BOX 1427
 MARYLAND HEIGHTS, MO 63042
 314 432-3444
 R W FARRIS CO INC
 1715 BALTIMORE AVE
 KANSAS CITY, MO 64108
 816 421-1751
 MORRIS F TAYLOR CO
 P D BOX 23
 MARLTON, N. J. 08053
 609 983-1712
 BITTAN ASSOC INC
 381 SUNRISE HWY
 LYNBROOK + LONG ISLAND, N Y
 516 593-3833
 LOUIS W APPELL CO
 11 WARRFN ST
 NEW YORK, N Y 10007
 212 964-4255
 LEDNARD D ALLEN CO
 P O BOX 205
 NORTH SYRACUSE, N Y 13212
 315 478-7470
 MORRIS F TAYLOR CO
 1224 DRESDEN DR., W
 CHARLOTTE, N. C. 28205
 704 537-4878
 RAHR-GREENLEAF & ASSOC
 14700 DETROIT AVE
 CLEVELAND, OHIO 44107
 216 221-9030
 MORRIS F TAYLOR CO
 4341 CARLISLE PIKE
 CAMP HILL, PA. 17011
 717 761-2958
 MORRIS F TAYLOR CO
 201 PENN CENTER BLVD.
 PITTSBURGH, PA. 15235
 412 823-8500
 M F KLICPERA CO
 P O BOX 2668
 HOUSTON, TEXAS 77001
 713 748-0874
 JAMES J BACKER CO
 2211 W GALER ST
 SEATTLE, WASH 98119
 206 283-6470

UNITED RADIO SUPPLY INC
INDUSTRIAL DIVISION
 SALES MANAGER
 JOHN RIES
 BRAND NAMES
 KUSTOM ELECTRONICS
 COMPANY ADDRESS
 829 W. BURNSIDE
 PORTLAND, OREGON 97209
 503-226-6334

UNITED STATES PLASTIC ROPE INC
 VICE PRESIDENT - SALES
 PETER M. LIND
 BRAND NAMES
 GLASTRAN
 COMPANY ADDRESS
 711 HAMILTON AVE.
 MENLO PARK, CALIF. 94025
 415-322-1881

UNITED STATES TOWERS
 OWNER
 JOHN J. HOKE
 COMPANY ADDRESS
 249 BARTOW LANE
 PETERSBURG, VA.
 732-9350

UNITED TRANSFORMER COMPANY
 SALES MANAGER
 J. R. BARRECA
 BRAND NAMES
 CAT
 COMPACT
 DECIOUNCER
 DI-T
 DI-T200
 DO-T
 DO-T400
 HIPERMALLOY
 HIT
 HVC VARIDUCTOR
 HVV VARIDUCTOR
 LAB
 LINEAR STANDARD
 MAT
 MET
 MINIDUCTOR
 MINIFILTER
 QUNCER
 PIP
 S SERIES
 SPECIAL SERIES
 SUBOUNCER
 SUB-SUBOUNCER
 TELE-MINIFILTER
 TVC VARIDUCTOR
 ULTRA-COMPACT
 UNITED
 UTC
 VARIDUCTOR
 VARIMATCH
 VARIPOWER
 VARITRAN
 VIC VARIDUCTOR
 PIL
 MAS
 FLATS
 FE
 FI
 FO
 COMPANY ADDRESS
 150 VARICK STREET
 NEW YORK, NEW YORK 10013
 212-AL5-3500

CAMPY REPRESENTATIVES
 CARTER ASSOCIATES INC
 P D BOX 94
 SCOTTSDALE, ARIZ 85252
 602 947-4355
 RECHT ASSOC
 175 S SAN ANTONIO RD
 LOS ALTOS, CALIF
 415 941-0336
 ELLARD F STRASSNER
 7121 LOS FELIZ BLVD
 LOS ANGELES, CALIF
 213 666-1511
 UTC PACIFIC DIV.
 3630 EASTHAM DRIVE
 CULVER CITY, CALIF
 213 870-9755
 FRANKLIN SALES CO
 2149 SOUTH CLERMONT ST
 DENVER, COLO. 80222
 303 757-1371
 GERBER SALES CO INC
 31 BROADWAY
 NEW HAVEN, CONN 06515
 203 777-6279
 MILLAR-HUTTO ASSOC INC
 P O BOX 1603
 WINTER PARK, FLA 32790
 305 647-7407
 MILLAR-HUTTO ASSOC INC
 1036 PEACHTREE ST N F
 P O BOX 7116, STA C
 ATLANTA, GA 30309
 404 876-0919
 WHITMORE ASSOC
 4750 N MILWAUKEE AVE
 CHICAGO, ILL 60630
 312 286-2442
 LORENZ SALES INC
 320 30TH STREET S E
 CEDAR RAPIDS, IOWA 52403
 319 366-0774
 L D LOWERY INC
 6200 ANNAPOLIS RO
 HYATTSVILLE, MD 20784
 301 773-4977
 GERBER SALES CO INC
 176 SECOND AVE
 WALTHAM, MASS 02154
 617 891-8040
 FRED B HILL CO
 6110 EXCELSIOR BLVD
 MINNEAPOLIS, MINN 55416
 612 929-6727
 HARRIS-HANSON CO
 2814 S BRENTWOOD BLVD
 ST LOUIS, MO 63144
 314 647-4350
 FRANK W TAYLOR CO INC
 4455 EAST GENESEE ST
 DEWITT, N Y 13214
 315 446-0422
 COMTRONIC ASSOC
 1551 FRANKLIN AVE
 MINEOLA 11, L I, N Y
 516 741-8966
 BEN MILLER
 P O BOX 72
 LITTLE NECK, N Y 11363
 212 224-4673
 MILLAR-HUTTO ASSOC INC
 112 SO SHARON AMITY RD
 P O BOX 17566
 CHARLOTTE, N C 28211
 704 366-5579
 BEK ASSOC INC
 330 SALEM AVE
 DAYTON, OHIO 45406
 513 278-1343
 L D LOWERY INC
 2801 WEST CHESTER PIKE
 ROOMALL, PA 19008
 215 356-5900
 GENE S BOOT & CO
 809 WAINWRIGHT DRIVE
 PITTSBURGH, PA 15228
 412 561-4125
 J Y SCHOONMAKER CO INC
 5328 REDFIELD BOX 35266
 DALLAS, TEXAS 75235
 214 631-8480
 J Y SCHOONMAKER CO INC
 6001 GULF FREEWAY
 HOUSTON, TEXAS 77023
 713 926-9510
 JAS. J BACKER CO
 221 WEST GALER ST
 P O BOX 9327
 SEATTLE, WASH 98119
 206 283-6470

UP-RIGHT SCAFFOLDS
 SALES MANAGER
 R. L. ESKER
 BRAND NAMES
 UP-RIGHT
 ROTA-LOCK
 COMPANY ADDRESS
 1013 PARDEE STREET
 BERKELEY, CALIF. 94710

UPSON BROTHERS INCORPORATED
 SALES MANAGER
 M. VELEPEC
 BRAND NAMES
 HOLD-E-ZEE
 ROL-TITE
 COMPANY ADDRESS
 65 BROAD STREET
 ROCHESTER, N. Y. 14614
 COMPANY REPRESENTATIVES
 G C RATCLIFF
 1738 E ORANGE OR
 PHOENIX, ARIZ 85016
 602 266-8238
 DONALD E SAVARD CO

126 E VALLEY BLVD
 ALHAMBRA, CALIF 91801
 283-0504
 WILLARD IHLEFELDO & ASSOC
 1201 SAN MARCO BLVD
 JACKSONVILLE, FLA 32217
 305 FL 9-5282
 ANDERSON SALES CO
 23 W CALENDAR AVE
 LAGRANGE, ILL 60525
 312 FL 2-1514
 F T HARSH CO
 15 FARM HILLS LANE
 HINGHAM, MASS 02043
 617 749-3555
 SIFMERS, GODDEN, OLSON
 324 N FIRST ST
 MINNEAPOLIS, MINN 55401
 612 FE 2-7793
 CHAS H KOSLOWSKY CD
 406 W 34TH ST
 KANSAS CITY, MO 64111
 816 WE 1-8088
 EXPORT AGENCIES CORP
 EXPORT ONLY
 50 BROADWAY
 NEW YORK, N.Y. 10004
 212 WH 4-1141
 HICKISS & HULBERT INC
 P O BOX 148
 KENT, OHIO 44240
 216 673-4416
 G W K VOIGHT CO.
 333 W STATE ST
 MEDIA, PA 19063
 215 LD 6-9021
 D R WERER
 P O BOX 534
 NORRISTOWN, PA 19001
 215 BR 5-4049
 LYNN & HEMPHILL
 2116 N PEARL ST
 DALLAS, TEXAS 75201
 214 RI 7-4745
 KENNETH L SHEPHERD CO
 2830 CANYON VIEW DR
 SALT LAKE CITY, UTAH 84109
 801 HU 4-5408
 DON RAYMOND
 90 S DEARBORN
 SEATTLE, WASH 98104
 206 682-0480
 REPS. IN OTHER COUNTRIES
 LYMAN AGENCIES LTD
 3765 E FIRST AVE
 BURNABY 2, B C
 604 299-7747
 S S LERNER AGENCIES
 137 WELLINGTON ST WEST
 TORONTO, ONTARIO
 416 JU 6-4587

UTICA CORPORATION
 NATIONAL SALES MANAGER
 ARTHUR FRIELICH
 BRAND NAMES
 TOWN & COUNTRY
 T & C
 UTI-COM
 UTI-CAL
 UTICA
 COMPANY ADDRESS
 2947 W. TOUHY AVENUE
 CHICAGO, ILLINOIS 60645
 COMPANY REPRESENTATIVES
 SOUTHWEST MARKETING
 133 E MCLELLAN BLVD
 PHOENIX, ARIZONA
 602 266-5361
 A HERMAN & ASSOC
 6611 SALT LAKE AVE
 BELL, CALIF
 588-1175
 MORTON FIELDS COMPANY
 8330 N SPRINGFIELD
 SKOKIE, ILLINOIS
 312 674-3018
 E D MAGNUS & ASSOC.
 5715 LINCOLN AVE
 CHICAGO, ILL
 312 334-1503
 W F REYER COMPANY
 538 LONE OAK ROAD
 PADUCAH, KY
 502 442-4176
 INDUSTRIAL COMPONENT CO
 908 W 46TH ST
 MINNEAPOLIS, MINN
 612 827-1703
 L R MASSEY COMPANY
 304 E JEFFERSON
 GREENWOOD, MISS.
 601 453-3038
 J W LEHNER COMPANY
 367 BRYNHILL ROAD
 COLUMBUS, OHIO
 614 268-5260
 TEX-ELEX
 4222 RICHMOND
 HOUSTON, TEXAS
 713 666-1636

UTILITY PRODUCTS COMPANY
 VICE PRESIDENT - SALES
 LOREN H. PEASE
 COMPANY ADDRESS
 3111 W. MILL ROAD
 MILWAUKEE, WISCONSIN 53209
 COMPANY REPRESENTATIVES
 E J PERKINS
 P O BOX 884
 GLENDALE, CALIF
 213 246-2034
 JOHN L MARSH ASSOC
 P O BOX 865

JUPITER, FLA
305 746-4911
ROBERT SPOFFORD
144 CARLYLE CIRCLE
PALM HARBOUR, FLA
813 937-3385
WM O HOLCOMB
541 KENILWORTH AVE
KENILWORTH, ILL
312 251-0028
L G WENDEGATZ
P O BOX 865
RAYTOWN, MO
816 FL 3-8300
R R KINYON
9216 CLAYTON RD
ST LOUIS, MO
314 WY 3-4348
J G MANN
860 KIMBALL AVE
WESTFLO, N J
201 233-2164
JAKE RUDISILL ASSOC INC
2709 N TRYON ST
CHARLOTTE, N C
704 377-6901
F R ANDERSON
987 DREXEL RD
LOWER MAKEFIELD TWP
YARDLEY, PA
715 HY 3-9134
JOHN P SMITH
P O BOX 2077
SAN ANGELO, TEXAS
915 655-2911

UTILITY TOWER COMPANY
SALES MANAGER
V. G. DUVALL
COMPANY ADDRESS
40X 12027
3200 N W 38TH STREET
OKLAHOMA CITY, OKLA. 73112
WI 6-5551
COMPANY REPRESENTATIVES
OAVCO ELECTRONICS
BAFERSVILLE, ARK.
BAUER ELECTRONICS CORP
SAN CARLOS, CALIF.
GATES RADIO CO
QUINCY, ILL.
UTILITY TOWER CO
MAYFIELD, KY
CH 7-3642
K & M ELECTRONICS
MINNEAPOLIS, MINN.
RADIO CORPORATION OF AMERICA
CAMDEN, N.J.
VISUAL ELECTRONICS CORP
NEW YORK, N.Y.
COLLINS RADIO CO
DALLAS, TEXAS
GENERAL ELECTRIC
LYNCHBURG, VA.

VALUE INCORPORATED
SALES MANAGER
CLIFFORD K. FEARN
BRAND NAMES
POLYANGLE
COMPANY ADDRESS
206 NORTH BROADWAY
PENNSVILLE, N. J. 0807D

VEGA ELECTRONICS CORPORATION
VICE PRESIDENT - MARKETING
CHARLES F. SWISHER
BRAND NAMES
SOUNSERVO
VEGA-MIKE
COMPANY ADDRESS
1161 RICHARD AVE.
SANTA CLARA, CALIF. 95050
COMPANY REPRESENTATIVES
DOBBS/STANFORD
P O BOX 266
SAN CARLOS, CALIF
415 591 0339
KOESSLER SALES CO
818 N FAIRFAX AVE
LOS ANGELES, CALIF
213 653 1605
SPARTA ELECTRONIC CORP
5851 FLORIN-PERKINS ROAD
SACRAMENTO, CALIF 95828
916 452 5353
JOHN B ANTHONY
P O BOX 343
WILTON, CONN
203 762 3629
LOREN F GREEN & ASSOC
5218 W OIVERSEY AVE
CHICAGO 39, ILL
312 AV 6 6824
MORRIS F TAYLOR CO
P O BOX 111
SILVER SPRING, MO
301 JU 9 4002
JIM PIPER ASSOC
TEN HAVEN ST
DOVER, MASS
617 449 1144
LOWELL-KANGAS & ASSOC INC
P O BOX 26
CREVE COEUR STATION
ST LOUIS, MO
314 ST 1 6290
SINGER PRODUCTS CO INC
95 BROAD STREET
NEW YORK, N Y 10004
212 WH 4 8700
SCHROEDER SALES CO
2254 EUCLIO AVE

CLEVELAND, OHIO
216 MA 1 5075
CHARLES LUCAS SALES CO
P O BOX 13632
DALLAS, TEXAS
214 WH 2 5958
STEVENSON CO
P O BOX 17495
SALT LAKE CITY, UTAH
801 CR 7 2515
VECTOR CORPORATION
307 WALL ST
SEATTLE, WASH
206 623 6891
REPS IN OTHER COUNTRIES
IMPETUS, S A
2 VIA BERNA
6900 - LUGANO
SWITZERLAND
91 3 R2 14
OIVERSIFIED ELECTRONICS
P O BOX 365
SCARROROUGH, ONTARIO
416 267 2701

VENT-RAK INCORPORATED
SALES MANAGER
JAMES L. WRIGHT, SR.
BRAND NAMES
CHASSIS-TRAK INC
VENT-RAK INC
COMPANY ADDRESS
525 S. WEBSTER AVE.
INDIANAPOLIS, INDIANA 46219
COMPANY REPRESENTATIVES
YOUNG & LAWRENCE ASSOC INC
107 WILLIAMS AVE S E
HUNTSVILLE, ALA 35801
205 536 0176
WILLIAMS ASSOC INC
1110 E MCOOWELL RD SUITE A2
PHOENIX, ARIZ 85004
602 254 6085
DYNAMIC ASSOC
1011 INDUSTRIAL WAY, EAST
RURLINGAME, CALIF 94010
415 344 2521
DYNAMIC ASSOC
5190 W WASHINGTON BLVD
LOS ANGELES, CALIF 90016
213 933 5833
WILLIAMS ASSOC INC
4971 JACKSON ST
DENVER, COLO 80216
373 388 4391
COAKLEY, BOYD, & ARRETT INC
6 GAYWOOD DRIVE
WATERBURY, CONN 06705
203 756 8766
YOUNG & LAWRENCE ASSOC INC
601 N NEW YORK AVE
WINTER PARK, FLORIDA 32789
305 647 2528
YOUNG & LAWRENCE ASSOC INC
2403 W WIND OEL MAR BLVD
ST PETERSBURG, FLORIDA 33726
813 360 7550
YOUNG & LAWRENCE ASSOC INC
2D25 PEACHTREE RD
N E SUITE 837
ATLANTA, GA 37309
404 355 1906
RINGLAND M KRUEGER CO
5755 W IRVING PARK RD
CHICAGO, ILL 60634
312 282 8444
THOMAS & SUKUP CO
2060 E FIFTY-FOURTH ST
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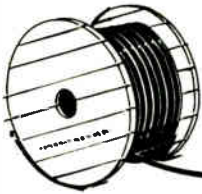
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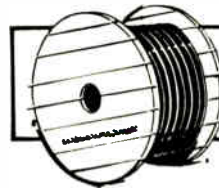


Maximum Attenuation db/100 ft. at 68°F			
Channel 6		Channel 13	
Nominal	0.52	Nominal	0.85
Maximum*	0.55	Maximum*	0.89

*These are limits as indicated by production to date. Until a permanent specification sheet is issued, these maximum values should be reconfirmed by our engineering department at the time of system design.

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Engineering Data

A collection of data selected to be of value to the engineer or technician.

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AUDIO NETWORKS

Unbalanced Configurations

Unbalanced networks encompass the T-type, taper pads, bridged-T, L-type, pi, ladder, and potentiometer.

You will notice, when looking through the network design equations, that the factor k appears in all equations. The k factor represents the ratio of current, voltage, or power corresponding to a given value of attenuation expressed in decibels.

To simplify the calculation of attenuator networks, the values of the most frequently used expressions, as tabulated by P. K. McElroy, are given in Table 1. Values for the expressions are substituted in the equations, thus saving much time and resulting in greater accuracy.

It is recommended, when large amounts of attenuation are required, that the loss be divided between two or more attenuator networks. This reduces the possibility of leakage at the higher frequencies and simplifies the construction, because some circuit element values become quite small as the attenuation is increased. As an example, if 80 dB of attenuation is required, it is far more practical to employ two tandem-connected 40-dB pads than to construct one of 80-dB loss. The 80-dB pad would require a shunt resistor of 0.12 ohms for a T-type attenuator, whereas in the 40-dB network it would be 12 ohms.

The given loss of an attenuator can only be obtained when the input and output circuits of the attenuator network are terminated in the design impedance. Although the terms input and output are frequently used in the discussion of attenuators, in reality there is no input or output to an attenuator; it makes no difference to the network which side is connected to the source or terminating circuit as long as the impedance match is satisfied. If a pad designed to operate between 600 ohms and 250 ohms is reversed, the pad will operate; however, the mismatch will cause a loss of level and may result in serious frequency distortion because of the impedance mismatch. The actual loss in decibels, for a given mismatch of impedance, is shown graphically in Fig. 1.

Material for the section "Audio Networks" has been adapted from the Howard W. Sams book Passive Audio Network Design, by Howard M. Tremaine.

T Configuration

A T-configuration network consists of three noninductive resistors, as shown in Fig. 2. T-type networks may be designed to operate between impedances of equal or unequal values. When properly designed, they will present an impedance match to both the source and load impedances regardless of the amount of loss. If the input and output impedance are of the same value, they are designated by the symbol Z . If they are of unequal values, symbols Z_1 and Z_2 are used. Symbols R_1 , R_2 , and R are used only with unequal impedances. For equal impedance R_1 appears in both the input and output sides, and the shunt resistor is then designated as R_2 (Fig. 2A). The resistor values for a pad to operate between *equal* impedances may be calculated:

$$R_1 = \left(\frac{k - 1}{k + 1} \right) Z$$

$$R_2 = \left(\frac{k}{k^2 - 1} \right) 2Z$$

where,

Z is the input and output impedance,
 R_1 is the series resistor,
 R_2 is the shunt resistor.

As an illustration, assume an attenuator is to be designed for a loss of 10 dB and is to operate in a 600-ohm circuit. Referring to Table 1, the k factor for R_1 at a loss of 10 dB is 0.519, and for R_2 it is 0.351; therefore:

$$\begin{aligned} R_1 &= 0.519 \times 600 \\ &= 311.4 \text{ ohms} \\ R_2 &= 0.351 \times 1200 \\ &= 421.2 \text{ ohms} \end{aligned}$$

Practical construction of this network would require two 310-ohm and one 420-ohm resistors.

Table 1. K Factors for Calculating Attenuator Loss Values

n(dB)	$r = \frac{1}{k}$	k	k ²	$\frac{k-1}{k+1}$	$\frac{k+1}{k-1}$	$\frac{k}{k-1}$	$\frac{k-1}{k}$	$\frac{k^2-1}{k}$	$\frac{k^2+1}{k^2-1}$	$\frac{k-1}{k} = 1-r$	$\frac{k}{k-1} = \frac{1}{1-r}$	$\frac{1}{k-1}$	n(dB)
0.05	0.994260	1.0057731	1.011579	0.0028783	347.43	86.8618	0.011513	173.73	0.0057396	174.22	173.22	0.05	
0.1	0.98855	1.011579	1.023292	0.0057562	173.73	43.4030	0.023029	86.866	0.011448	87.363	86.363	0.1	
0.2	0.97724	1.023292	1.047128	0.011512	86.866	21.713	0.046052	43.437	0.022762	33.933	32.933	0.2	
0.3	0.96605	1.035143	1.071520	0.017268	57.911	14.473	0.069093	28.965	0.033949	19.455	18.455	0.3	
0.4	0.95499	1.047128	1.096477	0.023022	43.437	10.854	0.092138	21.730	0.045007	22.219	21.219	0.4	
0.5	0.94406	1.059254	1.12202	0.028774	34.754	8.6810	0.11519	17.391	0.055939	17.877	16.877	0.5	
0.6	0.93325	1.071520	1.14815	0.034525	28.965	7.2427	0.13827	14.499	0.066746	14.982	13.982	0.6	
0.7	0.92257	1.083928	1.17490	0.040274	24.830	6.1974	0.16136	12.435	0.077428	12.915	11.915	0.7	
0.8	0.91201	1.096477	1.20227	0.046019	21.730	5.4209	0.18447	10.888	0.087988	11.365	10.365	0.8	
0.9	0.90157	1.10917	1.23027	0.051763	19.319	4.8168	0.20760	9.6853	0.098429	10.160	9.1600	0.9	
1.0	0.89125	1.12202	1.25893	0.057502	17.391	4.3335	0.23077	8.7237	0.10875	9.1954	8.1954	1.0	
1.1	0.88105	1.13501	1.28825	0.063237	15.814	3.9376	0.25396	7.9384	0.11895	8.4069	7.4069	1.1	
1.2	0.87096	1.14815	1.31826	0.068968	14.499	3.6076	0.27719	7.2842	0.12904	7.7499	6.7499	1.2	
1.3	0.86099	1.16145	1.34896	0.074695	13.388	3.3283	0.30046	6.7313	0.13901	7.1939	6.1939	1.3	
1.4	0.85114	1.17490	1.38038	0.080418	12.435	3.0888	0.32376	6.2579	0.14886	6.7176	5.7176	1.4	
1.5	0.84139	1.18850	1.41254	0.086132	11.610	2.8809	0.34711	5.8480	0.15861	6.3050	5.3050	1.5	
1.6	0.83176	1.20227	1.44544	0.091846	10.888	2.6991	0.37051	5.4899	0.16824	5.9439	4.9439	1.6	
1.7	0.82224	1.21618	1.47911	0.097551	10.251	2.5384	0.39394	5.1744	0.17776	5.6258	4.6258	1.7	
1.8	0.81283	1.23027	1.51356	0.103249	9.6853	2.3956	0.41744	4.8944	0.18717	5.3427	4.3427	1.8	
1.9	0.80353	1.24452	1.54882	0.108939	9.1794	2.2676	0.44099	4.6442	0.19647	5.0897	4.0897	1.9	
2.0	0.79433	1.25893	1.58489	0.11463	8.7241	2.1523	0.46460	4.4195	0.20567	4.8620	3.8620	2.0	
2.0	0.77625	1.28825	1.65959	0.12597	7.9384	1.9531	0.51200	4.0322	0.22375	4.4692	3.4692	2.2	
2.4	0.75858	1.31826	1.73780	0.13728	7.2842	1.7867	0.55968	3.7108	0.24142	4.1421	3.1421	2.4	
2.5	0.74989	1.33352	1.77828	0.14293	6.9666	1.7133	0.58363	3.5968	0.25011	3.9983	2.9983	2.5	
2.6	0.74131	1.34896	1.81970	0.14856	6.7313	1.6457	0.60765	3.4399	0.25829	3.8657	2.8657	2.6	
2.8	0.72444	1.38038	1.90546	0.15980	6.2579	1.5245	0.65594	3.2088	0.27556	3.6289	2.6289	2.8	
3.0	0.70795	1.41254	1.99526	0.17100	5.8480	1.4192	0.70459	3.0095	0.29205	3.4240	2.4240	3.0	
3.2	0.69183	1.44544	2.08930	0.18215	5.4899	1.3269	0.75361	2.8360	0.30817	3.2450	2.2450	3.2	
3.4	0.67608	1.47911	2.18776	0.19326	5.1744	1.2453	0.80302	2.6838	0.32392	3.0872	2.0872	3.4	
3.5	0.66834	1.49623	2.2387	0.19879	5.0304	1.2079	0.82789	2.6147	0.33166	3.0152	2.0152	3.5	
3.6	0.66069	1.51356	2.2909	0.20432	4.8944	1.1725	0.85289	2.5493	0.33931	2.9472	1.9472	3.6	
3.8	0.64565	1.54882	2.3988	0.21532	4.6442	1.1072	0.90314	2.4298	0.35435	2.8221	1.8221	3.8	
4.0	0.63096	1.58489	2.5119	0.22627	4.4194	1.0483	0.95393	2.3229	0.36904	2.7097	1.7097	4.0	
4.5	0.59566	1.67880	2.8184	0.25340	3.9464	0.92323	1.08314	2.0999	0.40434	2.4732	1.4732	4.5	
5.0	0.56234	1.77828	3.1623	0.28013	3.5698	0.82241	1.21594	1.9249	0.43766	2.2849	1.2849	5.0	
5.5	0.53088	1.88365	3.5481	0.30643	3.2633	0.73922	1.35277	1.7849	0.46912	2.1317	1.1317	5.5	
6.0	0.50119	1.99526	3.9811	0.33228	3.0095	0.66932	1.49407	1.6709	0.49881	2.0048	1.0048	6.0	
6.5	0.47315	2.1135	4.4668	0.35764	2.7961	0.60964	1.6403	1.5769	0.52685	1.89807	0.89807	6.5	
7.0	0.44668	2.2387	5.0119	0.38246	2.6146	0.55801	1.7920	1.4985	0.55332	1.80730	0.80730	7.0	
7.5	0.42170	2.3714	5.6234	0.40677	2.4584	0.51291	1.9497	1.4326	0.57830	1.72918	0.72918	7.5	
8.0	0.39811	2.5119	6.3096	0.43051	2.3228	0.47309	2.1138	1.3767	0.60189	1.66142	0.66142	8.0	
8.5	0.37584	2.6607	7.0795	0.45366	2.2043	0.43765	2.2849	1.3290	0.62416	1.60216	0.60216	8.5	
9.0	0.35481	2.8184	7.9433	0.47622	2.0999	0.40592	2.4636	1.2880	0.64519	1.54993	0.54993	9.0	
9.5	0.33497	2.9854	8.9125	0.49817	2.0074	0.37730	2.6504	1.2528	0.66503	1.50368	0.50368	9.5	
10.0	0.31623	3.1623	10.000	0.51950	1.9249	0.35137	2.8581	1.2222	0.68377	1.46247	0.46247	10.0	
10.5	0.29854	3.3497	11.220	0.54020	1.8512	0.32775	3.0512	1.1957	0.70146	1.42559	0.42559	10.5	
11.0	0.28184	3.5481	12.589	0.56026	1.7849	0.30616	3.2663	1.1726	0.71816	1.39245	0.39245	11.0	
11.5	0.26607	3.7584	14.125	0.57969	1.7251	0.28635	3.4923	1.1524	0.73393	1.36253	0.36253	11.5	
12.0	0.25119	3.9811	15.849	0.59848	1.6709	0.26811	3.7299	1.1347	0.74881	1.33545	0.33545	12.0	
12.5	0.23714	4.2170	17.783	0.61664	1.6217	0.25127	3.9799	1.1192	0.76286	1.31085	0.31085	12.5	
13.0	0.22387	4.4668	19.953	0.63416	1.5769	0.23568	4.2429	1.1055	0.77613	1.28845	0.28845	13.0	
13.5	0.21135	4.7315	22.387	0.65108	1.5360	0.22123	4.5202	1.0935	0.78865	1.26799	0.26799	13.5	
14.0	0.19953	5.0119	25.119	0.66733	1.4985	0.20780	4.8124	1.0829	0.80047	1.24926	0.24926	14.0	
14.5	0.18836	5.3088	28.184	0.68298	1.4642	0.19529	5.1204	1.0736	0.81164	1.23208	0.23208	14.5	
15.0	0.17783	5.6234	31.623	0.69804	1.4326	0.18363	5.4456	1.0653	0.82217	1.21629	0.21629	15.0	
15.5	0.16788	5.9566	35.481	0.71250	1.4035	0.17275	5.7887	1.0580	0.83212	1.20175	0.20175	15.5	
16.0	0.15849	6.3096	39.811	0.72639	1.3767	0.16257	6.1511	1.0515	0.84151	1.18834	0.18834	16.0	
16.5	0.14962	6.6834	44.668	0.73970	1.3519	0.15305	6.5338	1.0458	0.85038	1.17595	0.17595	16.5	
17.0	0.14125	7.0795	50.119	0.75246	1.3290	0.14413	6.9382	1.04071	0.85875	1.16449	0.16449	17.0	
17.5	0.13335	7.4989	56.234	0.76468	1.3077	0.13577	7.3655	1.03621	0.86665	1.15387	0.15387	17.5	
18.0	0.12589	7.9433	63.096	0.77637	1.2880	0.12792	7.8174	1.03220	0.87411	1.14402	0.14402	18.0	
18.5	0.118850	8.4139	70.795	0.78755	1.2698	0.12055	8.2950	1.02866	0.88115	1.13488	0.13488	18.5	
19.0	0.112202	8.9125	79.433	0.79823	1.2528	0.11363	8.8003	1.02550	0.88780	1.12638	0.12638	19.0	
19.5	0.105925	9.4406	89.125	0.80844	1.2369	0.10713	9.3347	1.02269	0.89407	1.11847	0.11847	19.5	
20.0	0.100000	10.0000	100.000	0.81818	1.2222	0.10101	9.9000	1.02020	0.90000	1.11111	0.11111	20.0	
20.5	0.094406	10.5925	112.202	0.82747	1.2085	0.095255	10.498	1.01799	0.90559	1.10425	0.10425	20.5	
21.0	0.089125	11.2202	125.893	0.83634	1.1957	0.089841	11.131	1.01601	0.91087	1.09785	0.097845	21.0	
21.5	0.084139	11.8850	141.254	0.84478	1.1837	0.084739	11.801	1.01426	0.91586	1.09187	0.091870	21.5	
22.0	0.079433	12.589	158.49	0.85282	1.1726	0.079935	12.510	1.01270	0.92057	1.08629	0.086291	22.0	
22.5	0.074989	13.335	177.83	0.86048	1.1621	0.075411	13.260	1.01126	0.92501	1.08107	0.081070	22.5	
23.0	0.070795	14.125	199.53	0.86777	1.1524	0.071148	14.054	1.01007	0.92921	1.07619	0.076190	23.0	
23.5	0.066834	14.962	223.87	0.87470	1.1432	0.067133	14.895	1.00897	0.93317	1.07162	0.071623	23.5	
24.0	0.063096	15.849	251.19	0.88130	1.1347	0.063348	15.786	1.00799	0.93690	1.06734	0.067345	24.0	
24.5	0.059566	16.788	281.84	0.88756	1.1267	0.059778	16.728	1.00712	0.94043	1.06334	0.063339	24.5	
25.0	0.056234	17.783	316.23	0.89352	1.1192	0.056413	17.727	1.00634	0.94377	1.05958	0.059584	25.0	
25.5	0.053088	18.836	354.81	0.89917	1.1121	0.053238	18.783	1.00565	0.94691	1.05607	0.056066	25.5	
26.0	0.050119	19.953	398.11	0.90455	1.1055	0.050246	19.903	1.00504	0.94988	1.05276	0.052762	26.0	
26.5	0.047315	21.135	446.68	0.90965	1.0993	0.047422	21.088	1.00449	0.95268	1.04966	0.049665	26.5	
27.0	0.044668	22.387	501.19	0.91448	1.0935	0.044757	22.342	1.00400	0.95533	1.04676	0.046757	27.0	
27.5	0.042170	23.714	562.34	0.91907	1.0881	0.042245	23.672	1.00356	0.95783	1.04403	0.		



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SPECIFICATIONS:

Character Description Maximum of 12 characters; digits 1 through 9, 0 and 2 blank positions supplied on standard unit

Character Dimensions Height: 1½ inches
Width: 1¼ inches

Unit Dimensions Height: 2¾ inches
Width: 2 inches
Length: 7 inches

Unit Weight 1½ lbs.

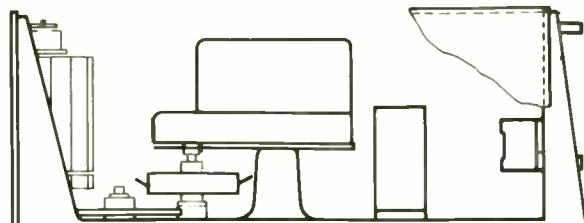
Power Requirements Motor: 60 cycle, 115 volts, AC
Relay: 24 volts, DC

Operating Power Maximum of 2.7 watts required

Operating Speed Consecutive change:
0.25 seconds
Complete 12-step cycle:
3.0 seconds

Mounting Bottom mounting holes:
2 front, 2 rear

Connections Jones Type P-318-AB Connector.



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34.5	0.018836	53.088	2,818.4	0.96302	1.03840	0.018843	53.069	1.00071	0.98116	1.01920	0.019198	34.5
35.0	0.017783	56.234	3,162.3	0.96506	1.03621	0.017788	56.216	1.00063	0.98222	1.01810	0.018105	35.0
36.0	0.015849	63.096	3,981.1	0.96880	1.03221	0.015853	63.080	1.00050	0.98415	1.01610	0.016104	36.0
37.0	0.014125	70.795	5,011.9	0.97214	1.02866	0.014128	70.781	1.00040	0.98588	1.01433	0.014328	37.0
37.5	0.013335	74.989	5,623.4	0.97368	1.02703	0.013338	74.976	1.00036	0.98666	1.01352	0.013516	37.5
38.0	0.012589	79.433	6,309.6	0.97513	1.02550	0.012591	79.420	1.00032	0.98741	1.01275	0.012750	38.0
39.0	0.0112202	89.125	7,943.3	0.97781	1.02270	0.0112216	89.114	1.00025	0.98878	1.01135	0.011348	39.0
40.0	0.0100000	100.000	10,000	0.98020	1.02020	0.0100010	99.990	1.00020	0.99000	1.01010	0.010101	40.0
40.5	0.0094406	105.925	11,220	0.98130	1.01906	0.0094414	105.916	1.00018	0.99056	1.00953	0.0095306	40.5
41.0	0.0089125	112.202	12,589	0.98233	1.01799	0.0089134	112.193	1.00016	0.99109	1.00899	0.0089926	41.0
42.0	0.0079436	125.89	15,849	0.98424	1.01601	0.0079436	125.88	1.00013	0.99206	1.00801	0.0080070	42.0
43.0	0.0070795	141.25	19,953	0.98594	1.01426	0.0070795	141.24	1.00010	0.99292	1.00713	0.0071301	43.0
43.5	0.0066834	149.62	22,387	0.98672	1.01346	0.0066834	149.61	1.00009	0.99332	1.00673	0.0067286	43.5
44.0	0.0063096	158.49	25,119	0.98746	1.01270	0.0063096	158.49	1.00008	0.99369	1.00635	0.0063496	44.0
45.0	0.0056234	177.83	31,623	0.98887	1.01131	0.0056234	177.83	1.00006	0.99438	1.00566	0.0056551	45.0
46.0	0.0050119	199.53	39,811	0.99003	1.01007	0.0050119	199.53	1.00005	0.99499	1.00504	0.0050370	46.0
46.5	0.0047315	211.35	44,668	0.99058	1.00951	0.0047315	211.35	1.000045	0.99527	1.00475	0.0047540	46.5
47.0	0.0044668	223.87	50,119	0.99111	1.00897	0.0044668	223.87	1.000040	0.99553	1.00449	0.0044869	47.0
48.0	0.0039811	251.19	63,096	0.99207	1.00799	0.0039811	251.19	1.000032	0.99602	1.00400	0.0039970	48.0
49.0	0.0035481	281.84	79,433	0.99293	1.00712	0.0035481	281.84	1.000025	0.99645	1.00356	0.0035607	49.0
50.0	0.0031623	316.23	100,000	0.99370	1.00634	0.0031623	316.23	1.000020	0.99684	1.00317	0.0031723	50.0
51.0	0.0028184	354.81	125,890	0.99438	1.00565	0.0028184	354.81	1.000016	0.99718	1.00283	0.0028264	51.0
52.0	0.0025119	398.11	158,490	0.99499	1.00504	0.0025119	398.11	1.000013	0.99749	1.00252	0.0025182	52.0
54.0	0.0019953	501.19	251,190	0.99602	1.00400	0.0019953	501.19	1.000008	0.99801	1.00200	0.0019992	54.0
55.0	0.0017783	562.34	316,230	0.99645	1.00356	0.0017783	562.34	1.000006	0.99822	1.00178	0.0017815	55.0
56.0	0.0015849	630.96	398,110	0.99684	1.00317	0.0015849	630.96	1.000005	0.99842	1.00159	0.0015874	56.0
57.0	0.0014125	707.95	501,190	0.99718	1.00283	0.0014125	707.95	1.000004	0.99859	1.00141	0.0014145	57.0
58.0	0.0012589	794.33	630,960	0.99749	1.00252	0.0012589	794.33	1.000003	0.99874	1.00126	0.0012605	58.0
60.0	0.0010000	1,000.0	10 ⁶	0.99800	1.00200	0.0010000	1,000.0	1.000002	0.99900	1.00100	0.0010010	60.0
65.0	0.00056234	1,778.3	3.1623 × 10 ⁶	0.99888	1.00112	0.00056234	1,778.3	1.000001	0.99944	1.00056	0.00056265	65.0
70.0	0.00031623	3,162.3	10 ⁷	0.99937	1.00063	0.00031623	3,162.3	1.000000	0.99968	1.00032	0.00031633	70.0
75.0	0.00017783	5,623.4	3.1623 × 10 ⁷	0.99964	1.00036	0.00017783	5,623.4	1.000000	0.99982	1.00018	0.00017786	75.0
80.0	0.00010000	10,000	10 ⁸	0.99980	1.00020	0.00010000	10,000	1.000000	0.99990	1.00010	0.00010001	80.0
85.0	0.000056234	17,783	3.1623 × 10 ⁸	0.99989	1.00011	0.000056234	17,783	1.000000	0.99994	1.00006	0.000056237	85.0
90.0	0.000031623	31,623	10 ⁹	0.99994	1.00006	0.000031623	31,623	1.000000	0.99997	1.00003	0.000031624	90.0
95.0	0.000017783	56,234	3.1623 × 10 ⁹	0.99996	1.00004	0.000017783	56,234	1.000000	0.99998	1.00002	0.000017783	95.0
100.0	0.000010000	10 ⁶	10 ¹⁰	0.99998	1.00002	0.000010000	10 ⁶	1.000000	0.99999	1.00001	0.000010000	100.0

(Courtesy Proceedings of the IRE.)

Taper Configuration

A taper pad is a T configuration (Fig. 2B) designed to operate between two circuits of unequal impedance. In this instance the symbols for the impedances become Z₁ and Z₂, with Z₁ being the larger of the two. The resistor values may be equated:

$$R_1 = Z_1 \left(\frac{k^2 + 1}{k^2 - 1} \right) - 2\sqrt{Z_1 Z_2} \left(\frac{k}{k^2 - 1} \right)$$

$$R_2 = Z_2 \left(\frac{k^2 + 1}{k^2 - 1} \right) - 2\sqrt{Z_1 Z_2} \left(\frac{k}{k^2 - 1} \right)$$

$$R_3 = 2\sqrt{Z_1 Z_2} \left(\frac{k}{k^2 - 1} \right)$$

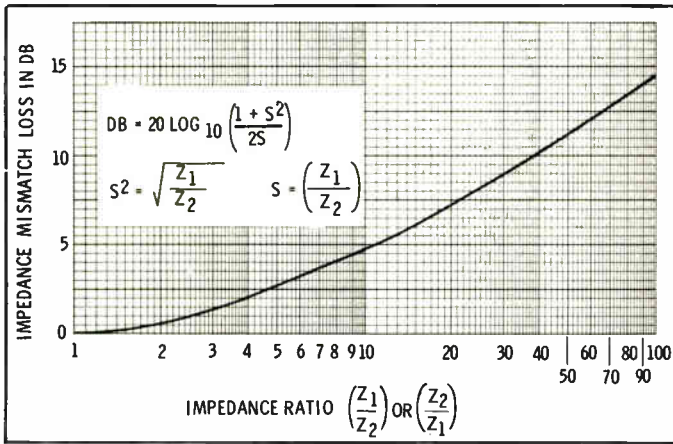


Fig. 1. Loss in level because of impedance mismatch.

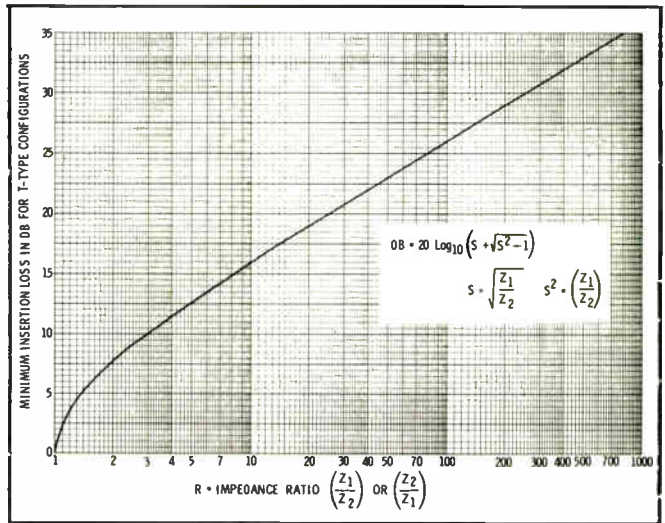


Fig. 3. Minimum loss chart for networks of unequal impedances.

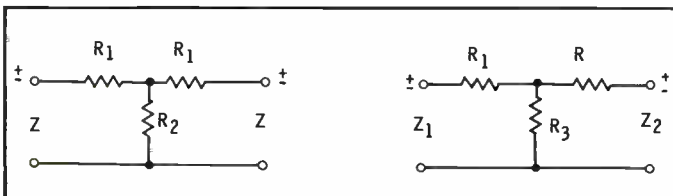


Fig. 2. Symbols used in the design of T-configuration networks.

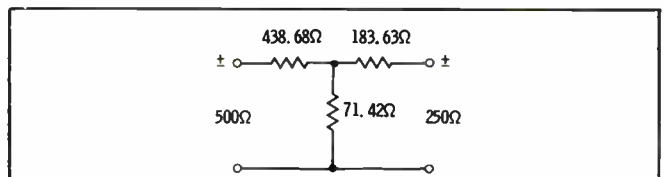


Fig. 4. Connections and circuit-element values for a 500- to 250-ohm taper pad with a 20-dB insertion loss.

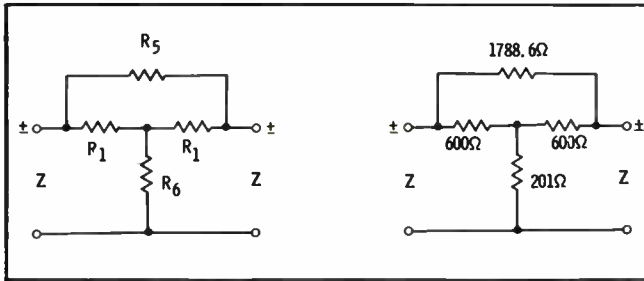


Fig. 5. Symbols and circuit-element values for a 600-ohm bridged-T attenuator with a 12-dB insertion loss.

the order of 6 dB, it could not be designed for such a loss. Using Table 1, the resistor values may now be calculated:

$$\begin{aligned} R_1 &= 500(1.0202) - 2(\sqrt{125,000}) \times 0.10101 \\ &= 510.1 - 2(353.55) \times 0.10101 \\ &= 510.1 - 71.42 \\ &= 438.68 \text{ ohms} \end{aligned}$$

$$\begin{aligned} R_2 &= 250(1.0202) - 2(\sqrt{125,000}) \times 0.10101 \\ &= 255.05 - 2(353.55) \times 0.10101 \\ &= 255.05 - 71.42 \\ &= 183.63 \text{ ohms} \end{aligned}$$

$$\begin{aligned} R_3 &= 2(\sqrt{125,000}) \times 0.10101 \\ &= 2(353.55) \times 0.10101 \\ &= 71.42 \text{ ohms} \end{aligned}$$

Practical values for the resistors would be 440, 185, and 72 ohms. The resistors are connected as shown in Fig. 4. If the 500-ohm side of the network is terminated in 500 ohms and an ohmmeter is connected across the 250-ohm side, the internal resistance will measure 250 ohms; when the procedure is reversed, the 500-ohm side will measure 500 ohms.

Bridged-T Configuration

The bridged-T attenuator is quite similar to the basic T network. The only difference in the configuration is the addition of the bridging resistor (R5), as shown in Fig. 5A. However, a bridged-T attenuator may only be used between circuits of equal impedance. In this network there are two resistors designated as R1, each resistor having a value equal to the line impedance; hence these values are known. This leaves only the bridging resistor (R5) and the shunt resistor (R6) to be determined. They are calculated as follows:

$$R_5 = (k - 1) Z$$

$$R_6 = \left(\frac{1}{k - 1} \right) Z$$

Assume that a bridge-T pad of 12-dB loss to work in a 600-ohm line circuit is to be designed. R1 will automatically equal 600 ohms. Solving for R5:

$$\begin{aligned} R_5 &= (3.981 - 1) \times 600 \\ &= 2.981 \times 600 \\ &= 1788.6 \text{ ohms} \end{aligned}$$

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Engineering Data

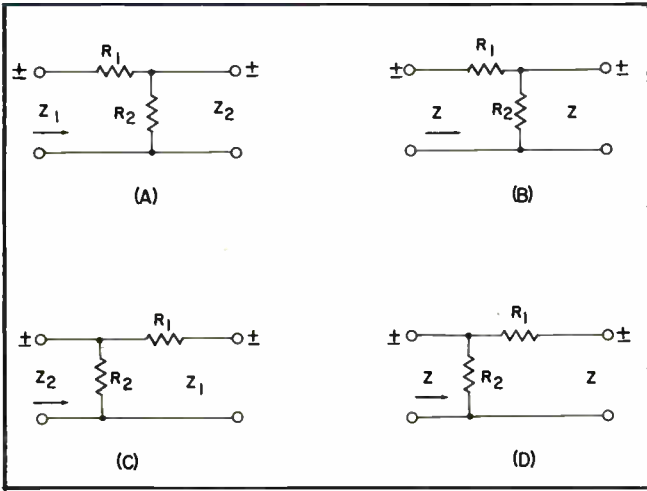


Fig. 6. L-type configurations.

Solving for R_2 :

$$R_2 = 0.335 \times 600 = 201 \text{ ohms}$$

For this problem, the first k factor was taken from column three and the second factor from column 12 of Table 1. The resistors are connected as shown in Fig. 5B.

L Configuration

An L configuration consists of two circuit elements connected to form an inverted letter L. Actually there are four variations of this basic configuration, as shown in Fig. 6. An L-type attenuator has a minimum loss like the taper pad described previously. L-type attenuators cannot be designed to reflect an impedance match in both directions, only in the direction indicated by the arrows in the illustrations.

If an L-type network is inserted into a circuit that is impedance sensitive, the circuit characteristics could be affected. L configurations should not be used, except when a minimum loss that cannot be satisfied by a T-type configuration is required. The minimum loss for an L-type network may be determined from the graph in Fig. 7. The procedure for using this graph is the same as described for the T configuration in Fig. 3.

For unequal impedances the match may be in the direction of the larger or smaller impedance, but not both, as shown in Figs. 6A and C. When an L-type network is connected to circuits of equal impedance (Figs. 6B and D), the circuits are matched in one direction, but not in the other. However, the network may be designed to match either of the terminating impedances.

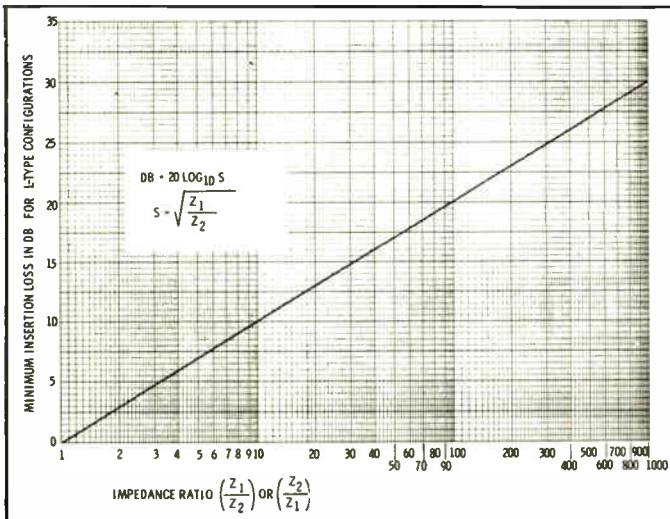


Fig. 7. Minimum loss graph for L-type attenuators.

The arrows in the illustrations indicate the direction of the impedance match. If the network is designed to match the impedance in the direction of the series resistor, the mismatch is always toward the shunt resistor. Impedance mismatch increases with an increase of loss. In some instances the ohmic value of the shunt resistor may become a fraction of an ohm, which can seriously affect the circuit in which it has been connected.

The configuration for an L-type network operating between unequal values of impedances (Z_1 and Z_2) is shown in Fig. 6A. Here the impedance match is toward the larger of the two (Z_1). The values of the resistors may be equated:

$$R_1 = \left(\frac{Z_1}{S} \right) \left(\frac{kS - 1}{k} \right)$$

$$R_2 = \left(\frac{Z_1}{S} \right) \left(\frac{1}{k - 1} \right)$$

where,

$$S = \sqrt{\frac{Z_1}{Z_2}}$$

For a condition where the impedances are equal and the impedance match is in the direction of the arrow (Fig. 6B), the values of the resistors are calculated:

$$R_1 = \left(\frac{k - 1}{k} \right) Z$$

$$R_2 = \left(\frac{1}{k - 1} \right) Z$$

If the impedances are unequal, and the impedance match is toward the smaller of the two impedances (Fig. 6C), the values of the resistors are determined by:

$$R_1 = \left(\frac{Z_1}{S} \right) (k - S)$$

$$R_2 = \left(\frac{Z_1}{S} \right) \left(\frac{k}{kS - 1} \right)$$

where,

$$S = \sqrt{\frac{Z_1}{Z_2}}$$

When the impedances are equal and the impedance match is in the direction of the shunt arm (Fig. 6D), the resistors are calculated by the following:

$$R_1 = (k - 1) Z$$

$$R_2 = \left(\frac{k}{k - 1} \right) Z$$

When selecting an L configuration, due consideration should be given to the effect it may have on the circuit into which it is to be connected. For example, if the series resistor is around 600 ohms, the shunt resistor approximately 60 ohms, and the configuration is used as an input or output termination for a transformer of an amplifier, there is no doubt that the frequency and distortion characteristics of the amplifier would be adversely affected. If the equipment terminated by the 60 ohms should happen to be a filter or equalizer, the frequency characteristics of these units would be *seriously* affected. Therefore, before considering the use of the L-type network, due consideration should be given to the effect on the circuit into which the network is to be connected.

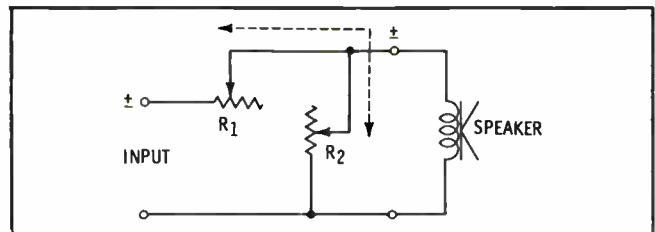


Fig. 8. L-type configuration used as speaker volume control.

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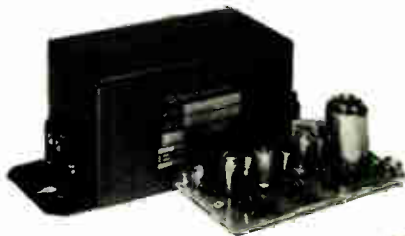
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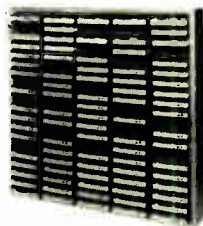
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Engineering Data

The question then arises as to why the L-type configuration is used at all. Contrary to the disadvantages of the L-type network, it does have certain advantages if employed in a circuit such as a volume control, voltage divider, volume indicator meter attenuator (multiplier), or in any circuit where the impedance match is not of great importance. However, the L-attenuator network cannot be employed for the VU meter; this instrument must see a constant impedance of 3,900 ohms.

The circuit for a speaker volume control using an L pad is given in Fig. 8. It will be observed, the series resistor of the network is toward the output of the amplifier. Mechanically, the two arms are mounted on a common shaft, and R_1 and R_2 are varied inversely with respect to each other.

Pi Configuration

The pi configuration, sometimes referred to as a delta pad (Fig. 9), may be designed to operate between equal or unequal impedances, balanced or unbalanced. The pi attenuator is not usually found in commercial sound installations, but it is used quite extensively in the telephone industry. The resistance values for impedance of *equal* values (Fig. 9A) may be calculated with the following formulas:

$$R_1 = \left(\frac{k+1}{k-1} \right) Z$$

$$R_2 = \left(\frac{Z}{2} \right) \left(\frac{k+1}{k} \right)$$

where,

R_1 is the series resistor,

R_2 is the shunt resistor,

Z is the input and output impedance.

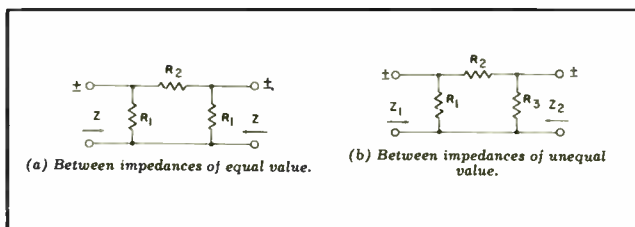


Fig. 9. Pi-type configurations.

For impedances of *unequal* values (Fig. 9B), the resistor values may be determined by the formulas:

$$R_1 = \left(\frac{k^2 - 1}{k^2 - 2kS + 1} \right) Z$$

$$R_2 = \left(\frac{\sqrt{Z_1 Z_2}}{2} \right) \left(\frac{k^2 - 1}{k} \right)$$

$$R_3 = \left(\frac{k^2 - 1}{k^2 - 2\frac{k}{S} + 1} \right) Z_2$$

where,

R_1 and R_3 are the shunt resistors,

R_2 is the series resistor,

Z_1 is the input impedance,

Z_2 is the output impedance,

S is equal to $\frac{\sqrt{Z_1}}{\sqrt{Z_2}}$

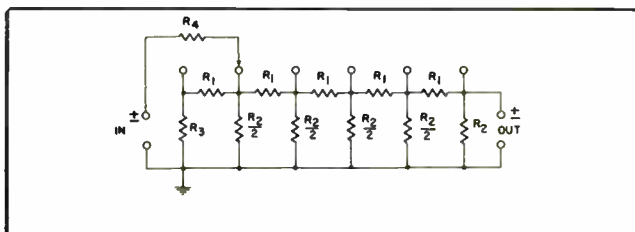


Fig. 10. Configuration for a ladder-type sound-mixer control.

Ladder Configuration

The ladder configuration consists of a group of pi pads connected in tandem; it is designed to operate between impedances of the same value. Attenuators using this configuration, which are only manufactured in variable form, are used extensively for sound-mixer controls.

One disadvantage of the ladder-type configuration (Fig. 10) is that it has a fixed insertion loss of 6 dB. This 6-dB loss is exclusive of the variable attenuation. The insertion loss is caused by the series and shunt resistors and the resistor in the slide-arm circuit. The 6-dB loss is divided as follows: 3.5 dB in the ladder network resistors (R_1 , R_2 , and R_3) and 2.5 dB in the series resistor (R_4).

Another disadvantage of the ladder configuration is that the impedance is not constant over the entire operating range; however, this is of no great consequence since it occurs at the maximum and minimum loss positions. In a sound mixer the controls are fed into a combining network which prevents the slight mismatch of the impedances from being reflected to the output of the mixer.

Ladder networks have better attenuation characteristics, allowing virtually an infinite cutoff to about 120 dB of loss; whereas the T type extends downward in the order of 100 dB. The advantages of the ladder configuration are: (1) as the attenuation is increased the contact noise decreases in proportion (contact noise remains constant with the T type), and (2) impedance mismatch effects decrease in a direct proportion to the number of controls in a mixer-combining network. (With four controls the impedance mismatch is negligible.) The values for the components of a ladder configuration may be calculated:

$$R_1 = \left(\frac{k^2 - 1}{2k} \right) Z$$

$$R_2 = \left(\frac{k+1}{k-1} \right) Z$$

$$R_3 = \frac{R_2 \times Z}{R_2 + Z}$$

$$R_4 = \frac{Z}{2}$$

where,

R_1 is the series resistor,

R_2 is the shunt resistor,

R_3 is the input shunt resistor,

R_4 is the series resistor in the contact arm,

Z is the impedance.

Note: The value of k is dependent on the loss per step and not the total loss. The loss per step should not exceed 1.3 dB. Also, the value of R_2 is halved for all but the output shunt resistor.

Ladder attenuators must be grounded at the low-potential side to prevent leakage at the higher frequencies.

Minimum-Loss Configuration

A minimum-loss pad is a network designed to operate between circuits of *unequal* impedance with a *minimum* insertion loss for a given impedance ratio. Minimum-loss ratios are given for L-type configurations in Fig. 7, and for the T configuration in Fig. 3. However, for those desiring to solve the minimum loss mathematically, the L pad may be calculated:

$$\text{dB} = 20 \log_{10} (S)$$

where,

$$S = \frac{\sqrt{Z_1}}{\sqrt{Z_2}}$$

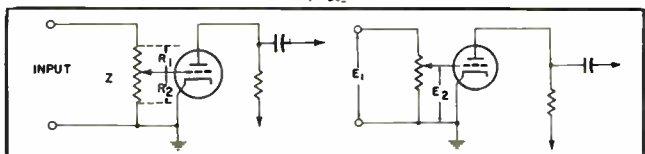


Fig. 11. Grid-circuit potentiometers.



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Engineering Data

For the T (taper-pad) configuration:

$$\text{dB} = 20 \log_{10} (S + \sqrt{S^2 - 1})$$

$$S^2 = \frac{Z_1}{Z_2}$$

where,

Z_1 and Z_2 are the input and output impedances, Z_1 being the larger of the two.

Grid-Circuit Potentiometers

A grid-circuit potentiometer (abbreviated pot) is actually an L-type configuration and is used primarily for controlling the gain in a circuit where the load on the slider or unmatched side is practically an open circuit, such as the control grid of a vacuum tube (Fig. 11). The total resistance of such controls varies from 50,000 ohms to 1 megohm or greater. To illustrate the design procedure, assume a potentiometer having a resistance of 100,000 ohms with a total attenuation of 30 dB in steps of 10 dB is required. It will be noted in Fig. 11A that the upper portion of the control is designated as R_1 and the lower portion R_2 . Therefore:

$$R_1 = \left(\frac{1}{k}\right) Z$$

$$R_2 = (Z - R_1)$$

where,

Z is the total resistance of the potentiometer,
 R_1 and R_2 are the upper and lower portions of the resistance, depending on the position of the slider arm.

The factor $(1/k)$ is taken from Table 1. Solving for the first 10-dB step:

$$R_1 = 0.3162 \times 100,000$$

$$= 31,620 \text{ ohms}$$

$$R_2 = 100,000 - 31,620$$

$$= 68,380 \text{ ohms}$$

the second step (20 dB):

$$R_1 = 0.100 \times 100,000$$

$$= 10,000 \text{ ohms}$$

$$R_2 = 100,000 - 10,000$$

$$= 90,000 \text{ ohms}$$

and the third step (30 dB):

$$R_1 = 0.03162 \times 100,000$$

$$= 3,162 \text{ ohms}$$

$$R_2 = 100,000 - 3,162$$

$$= 96,838 \text{ ohms}$$

Taps will occur at 3,162 ohms, 10,000 ohms, and 31,620 ohms, upward from ground. The final design will consist of four resistors of 3,162, 6,838, 21,620, and 68,380 ohms for a total of 100,000 ohms. The resistors may consist of four carbon or wire-wound noninductive resistors, mounted on a switch frame.

Potentiometers may also be calibrated to indicate in terms of voltage, as shown in Fig. 11B. The voltage for any position may be computed:

$$E_2 = E_1 \left(\frac{R_1}{R_1 \times R_2} \right)$$

Table 2. Work Sheet for Calculating Resistor Values

Loss	$k-1$	R_5 (Ohms)	$\frac{1}{k-1}$	R_6 (Ohms)
0	—	Zero	—	Infinite
1	1.122	30.5	8.195	2048.7
2	1.258	64.5	3.862	965.5
4	1.584	146.0	1.700	425.0
6	1.995	248.0	1.004	221.0
10	3.162	540.5	0.462	115.5
15	5.623	1155.8	0.216	54.0
20	10.000	2250.0	0.111	27.8
25	17.783	4200.0	0.059	14.8
30	31.623	7650.0	0.0326	8.15

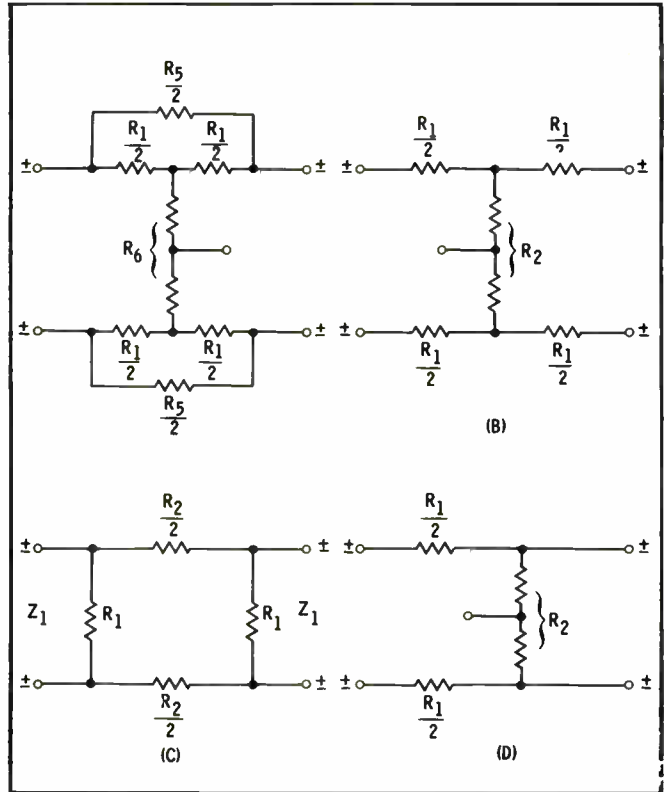


Fig. 12. Balanced networks.

As a rule, nonprofessional equipment uses potentiometers ranging from 100,000 ohms to 1 megohm in resistance. However, it is the practice in commercial equipment to keep the overall resistance to 50,000 ohms or less. To insure calibration accuracy, such controls are operated in the control grid of an amplifier stage, biased for class-A operation. In choosing the resistance value of a potentiometer, several factors must be considered. For example, if the control is to be used in the input of a high-gain triode, where the input impedance of the tube may be quite low at the higher frequencies, a low value of resistance is required. In addition, the input capacity to ground has a marked effect on the attenuation of the high frequencies; therefore, the lower the value of the potentiometer, the smaller this effect becomes. If grid current is permitted to flow in the input of a tube, the potentiometer will generate noise each time it is changed. Whenever possible, an input transformer with a potentiometer connected across the secondary of the transformer is recommended. When connected across a transformer, the potentiometer resistance is usually made equal to the secondary impedance of the transformer.

Variable Attenuator Design

In reality the design of a variable attenuator consists of designing a group of fixed attenuators that may be switched in and out of a circuit at will. Before starting a design, the impedance and configuration are selected. A table similar to that shown in Table 2 is prepared, and the desired values of loss, k -factors, and the calculated values of resistances are then entered in the appropriate column.

Assume a bridged-T attenuator of 250 ohms impedance, having a total loss of -30 dB which is variable in steps of 1 dB, is to be designed, using the equations given under the heading "Bridge-T Configuration." The value of k is taken from Column 3 and the value of $1/k - 1$ from Column 12 of Table 1. Since R_1 equals the 250-ohm line impedance, only R_5 and R_6 require calculation. For the sake of brevity, only nine of the loss steps have been calculated in Table 2.

It should be noted at the zero-loss position, R_5 has zero resistance and R_6 is infinite. In practice, at zero attenuation a high value of resistance is switched in R_6 to keep the circuit closed and to prevent contact noise. The value of the resistance depends on the impedance and loss of the network, but it should be of such a value that the pad is effectively out of the circuit.

The resistors are noninductively wound and mounted on a switch frame, with or without a detent. If possible, the entire unit should be mounted in a metal case to prevent damage to the resistors and reduce the possibility of pickup from extraneous electrical fields. The two switch arms are mounted on a common shaft, and the resistors are inserted inversely to each other, as for the L-type network. If over 40 dB of attenuation is required, the resistor coils must be carefully placed to reduce the possibility of leakage at the higher frequencies.

Variable attenuators can also be designed to match two impedances of unequal value, using a taper network as discussed under the heading "Taper Configuration." Such networks, however, are the exception rather than the rule. The procedure for their design is the same as for the equal-impedance network described previously.

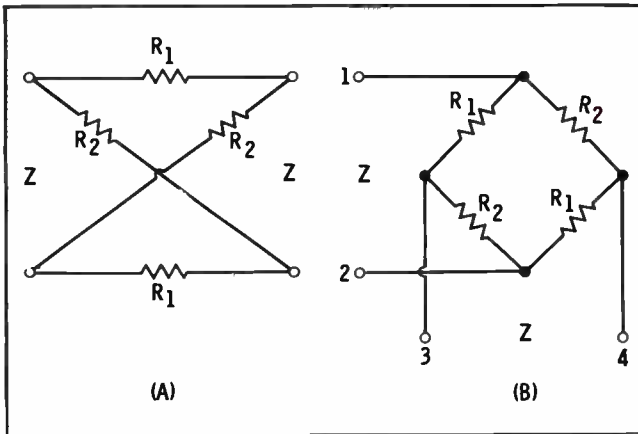


Fig. 13. Lattice network and its equivalent circuit.

Balanced Configurations

Basically a balanced configuration consists of designing an unbalanced network, dividing the values of the series resistors in half, and connecting the halves on each side of the configuration. Balanced configurations include the bridged-T, H, O, U, lattice, and ladder networks. If the network is to be grounded, the shunt resistor is tapped in the exact electrical center and connected to ground. It will be noted that only the values of series resistors are divided; the shunt resistor remains as for the unbalanced network.

Bridged-T, H, O, and U Configurations

The balanced bridged-T configuration is given in Fig. 12A. Here you will notice that series resistors R_1 (equal to the line impedance) are divided and connected in each side of the configuration. Resistor R_2 is treated in the same manner. The value of R_2 remains the same as for the unbalanced configuration, except that a tap has been added for the ground connection. For ease in winding, R_2 may be made into two separate resistors connected in series. The balanced configuration will exhibit the same characteristics as the unbalanced version.

The balanced T, or H pad as it is commonly known, is shown in Fig. 12B. Like the bridged-T, its series resistors are divided and connected in each half of the configuration. Except for being balanced, the H pad is similar in all other respects to the T configuration. H-type configurations may be designed for matching impedances of unequal value, as described for the taper pad.

The O configuration (Fig. 12C) is in reality a balanced pi pad. The addition of one resistor converts the pi pad into a balanced configuration. Only the series resistors (R_2) are divided. Resistors R_1 remain as for the pi pad. This configuration does not adapt itself to grounding; however, it may be used in any circuit where a balanced to ground pad is employed, or in a symmetrical circuit free from ground. The O network may be designed for circuits of equal or unequal impedances.

U pads (Fig. 12D) are balanced L configurations. The rules for impedance matching for the L configuration apply equally for the balanced U configuration.

Lattice Configuration

The lattice network is a true balanced configuration. Therefore individual treatment is required for solving its circuit element values. If it is used in an unbalanced configuration, it degenerates into a pi configuration.

The configuration for the lattice network is shown in Fig. 13A. The difference between this network and the O configuration is that the shunt resistors (R_2) are crossed over and connected to both the input and output circuits. The circuit element values may be calculated:

$$R_1 = \left(\frac{k - 1}{k + 1} \right) Z$$

$$R_2 = \left(\frac{k + 1}{k - 1} \right) Z$$

where,

- R_1 is the series resistor,
- R_2 is the shunt resistor,
- Z is the line impedance.

Lattice networks can only be employed in ungrounded circuits of equal impedance.

If an equivalent circuit is drawn for the lattice pad (Fig. 13B), it resembles a balanced bridge circuit. The principal difference is that resistors R_1 are lower in value than R_2 . This difference unbalances the bridge and permits the signal to pass attenuated in an amount controlled by the ratio of resistors R_1 and R_2 .

Ladder Configuration

It was mentioned earlier that the ladder configuration is only manufactured in the variable form and that it is used extensively in sound-mixer circuits. Ladder networks may also be designed for balanced operation. This is accomplished by connecting two unbalanced networks side by side as shown in Fig. 14. However, the circuit elements do not divide in the same manner as for other networks. If the unbalanced configuration in Fig. 10 is compared with the balanced network of Fig. 14, it will be observed that resistors R_1 are divided by two, but resistors R_2 are no longer $R_2/2$; instead, R_2 is now twice the value at the output as for the unbalanced configuration. R_2 remains at its original value each side of ground.

Bridging Configurations

A bridging (paralleling) pad is a special type of attenuator network designed to bridge one circuit while feeding another, without disturbing the impedance or frequency characteristics of the circuit bridged. In addition, the network can absorb only a fractional amount of power from the circuit bridged.

Two such networks are shown in Fig. 15. Fig. 15A is an unbalanced-L configuration. The difference between this configuration and the normal L configuration is that at the input side of the bridging pad (Z_1) the impedance is very high (10,000 to 30,000 ohms) while the other side (Z_2) matches the input impedance of the device being fed by the pad.

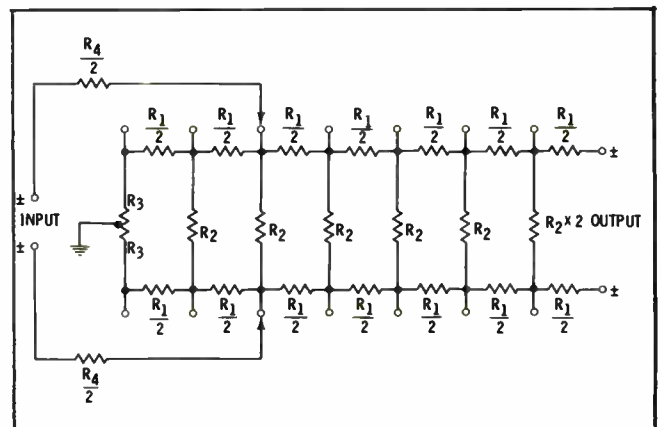


Fig. 14. A balanced ladder network.

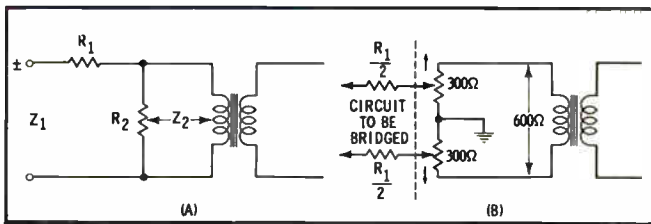


Fig. 15. Bridging input networks.

The loss of a bridging pad is stated for a given set of conditions; e.g., 40 dB of loss when bridging a 600-ohm circuit and feeding a 600-ohm circuit. If either the impedance bridged or series resistor R_1 is changed in value, the insertion loss of the pad will change. Resistor values for the more commonly used pads and insertion losses are given in Table 3. The stated loss of these networks will only be valid when they are bridging 600 ohms and feeding 600 ohms. The loss for the same configuration, but using other values of R_1 and impedance Z_2 , may be equated:

$$dB = 10 \log_{10} \left(\frac{Z_1}{Z_2} \right) + 20 \log_{10} \sqrt{\frac{Z_1}{Z_2} + \sqrt{\frac{Z_1}{Z_2}}} - 1$$

where,

Z_1 is the impedance of the circuit to be bridged,
 Z_2 is the impedance of the circuit fed by the network.

Bridging networks should be designed to have an input resistance of at least ten times that of the circuit to be bridged.

The configuration in Fig. 15A may be converted to a balanced network by dividing resistor R_1 by two and placing half in each side of the configuration. A variable 30,000- to 600-ohm pad is shown in Fig. 15B.

When a bridging pad is connected across a circuit, a slight loss of level (usually ignored) takes place in the circuit being bridged. However, this loss may be computed:

$$dB = 20 \log_{10} \frac{2B_{it} + R}{2B_{it}}$$

where,

B_{it} is the bridging input of the pad,
 R is the impedance of the circuit bridged.

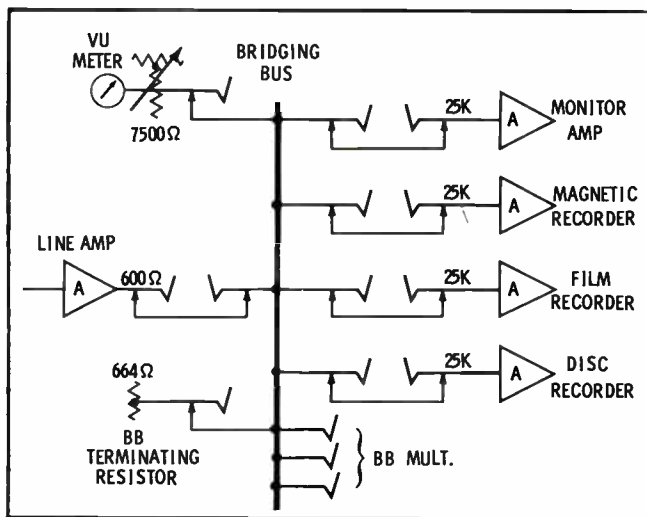


Fig. 16. A typical bridging-bus circuit.

Thus, for a pad of 10,000 to 600 ohms, bridged across a circuit of 600 ohms, the loss is

$$\begin{aligned} dB &= 20 \log_{10} \frac{20,000 + 600}{20,000} \\ &= 20 \log 1.03 \\ &= 20 \times 0.013 \\ &= 0.26 \text{ dB} \end{aligned}$$

Therefore, when a bridging pad of 10,000 ohms is connected across a circuit impedance of 600 ohms, the level in the 600-ohm circuit will drop 0.26 dB.

When the bridging pad is connected across a 600-ohm circuit, the impedance of the 600-ohm circuit will be lowered only 1 to 3%. This impedance reduction is of small consequence. This is the principal reason for using a bridging impedance of 20,000 to 30,000 ohms, although it may insert a considerable amount of loss. If the insertion loss of a bridging pad is too great, it may be replaced with a bridging transformer which has an insertion loss of 18 to 20 dB; however, if sufficient gain is available, the pad is the most economical.

A typical recording or broadcast studio-type bridging bus is shown in Fig. 16. The purpose of a bridging bus is to provide a circuit in the system where additional equipment may be connected. The bridging-bus circuit is a group of jacks connected in parallel and driven by an amplifier. It will be observed that the bridging bus and the equipment connected across the bus act as a load impedance for the amplifier driving the bus. The first step in bus-circuit design is to decide how many pieces of equipment will be permanently connected (normalised) across the bus.

For this illustration four bridging impedances of 25,000 ohms and a 7,500-ohm VU meter have been selected. A terminating resistor and three sets of bridging-bus multiple jacks for patching additional equipment are connected in parallel with the bridging bus. It will be assumed that any additional equipment to be patched across the bus will have a bridging impedance of at least 25,000 ohms and that the output impedance of the amplifier driving the bus is 600 ohms. First, the total impedance of the equipment permanently connected across the bus (exclusive of the bridging-bus termination) is determined. The four 25,000-ohm bridging inputs connected across the bus present a load resistance of 6,250 ohms. In parallel with this is the 7,500-ohm VU meter panel. Using Ohm's law for parallel circuits:

$$\begin{aligned} R_t &= \frac{6,250 \times 7,500}{6,250 + 7,500} \\ &= \frac{4.68 \times 10^7}{13.7 \times 10^3} \\ &= \frac{4.68 \times 10^3}{1.37} \\ &= 3,416 \text{ ohms} \end{aligned}$$

The next step is to determine the value of the bridging-bus terminating resistor which, when connected in parallel with 3,416 ohms, will reflect an impedance of 600 ohms. Again using Ohm's law for parallel resistors:

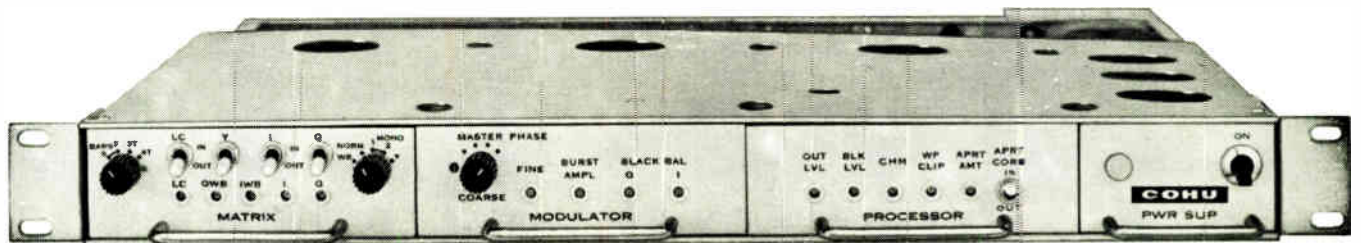
$$\begin{aligned} BB &= \frac{3,416 \times 600}{3,416 - 600} \\ &= \frac{2.05 \times 10^6}{2.81 \times 10^3} \\ &= \frac{2.05 \times 10^3}{2.81} \\ &= 729.53 \text{ ohms} \end{aligned}$$

Therefore, if the resistor of 729.53 ohms is connected in parallel with the bus and the foregoing load impedances, the amplifier will see 600 ohms.

Table 3. Resistor Values for Bridging Attenuators

R_1 (Ohms)	Loss (dB)	R_2 (Ohms)
30,000	40.1	600
25,000	38.5	600
20,000	36.8	600
15,000	34.2	600
10,000	30.7	600
7,500	28.3	600
5,000	24.9	600
3,000	20.8	600

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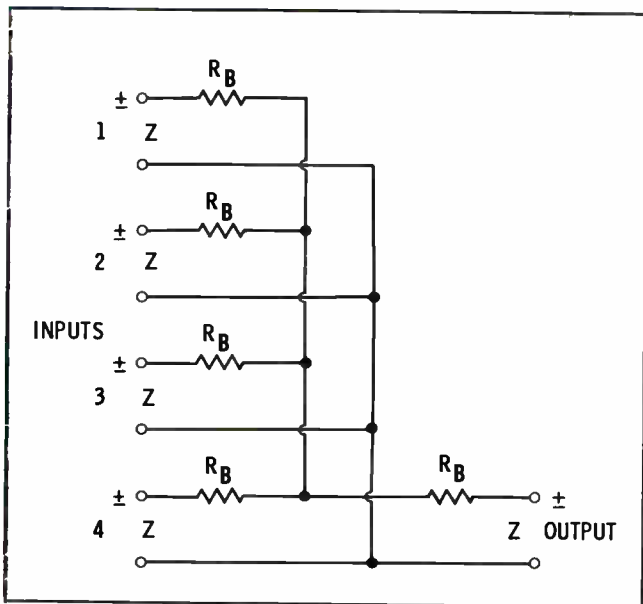


Fig. 17. A four-position combining network.

As a rule it is safe to load the output of a well designed amplifier to within 90% of its rated output impedance, which would be 540 ohms for a 600-ohm output impedance. This means that several more pieces of equipment could be patched across the bus without affecting the amplifier characteristics. If the bridging impedance is greater than 25,000 ohms, more equipment could be driven from the bus. Usually the bus impedance is set for around 625 ohms to permit additional equipment to be patched across the bus without loading the amplifier below 600 ohms.

If the bus is grounded on one side, unbalanced configurations are used. If the bus is balanced to ground or symmetrical, a balanced-type network is used. Standard bridging impedances used by the recording and broadcast industries include 7,500, 10,000, 25,000, and 30,000 ohms.

Combining Networks

Combining networks are employed to combine the inputs of several devices or lines. One of the most common uses for this type of configuration is in a sound-mixer circuit. Combining networks may be balanced or unbalanced, and they are usually confined to a common value of impedance.

The signal may consist of dialogue, music, and/or sound effects. The source may be a broadcast line, photographic film, or magnetic tape reproducers, phonograph records, a live pick-up, or a combination of all. The network must be designed so that changing the level of any one of the inputs has no effect on the level or frequency characteristics of the other signal sources. For broadcast and recording at least 10 positions are

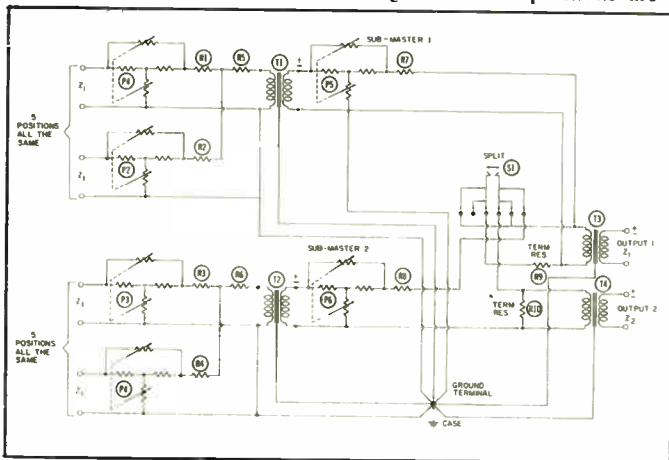


Fig. 19. A 10-position, split mixer network with keyswitch for combining the two sections into a single network.

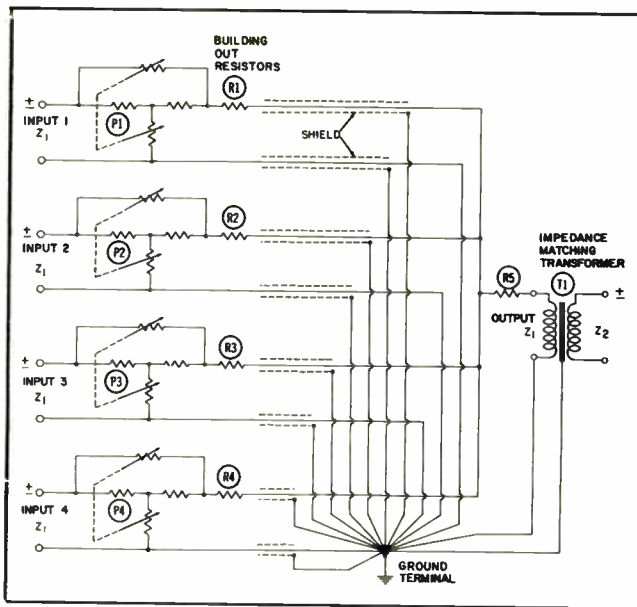


Fig. 18. A four-position, parallel-connected, unbalanced mixer network.

required; in many instances 20 or more are necessary. For recording purposes, equalizers, filters, and other devices are operated in conjunction with the combining networks, as shown in Fig. 17. The network consists of 5 resistors, designated as R_B . If the circuit is traced, it will be apparent that the five circuits are in parallel. The resistors provide isolation between the four input circuits and an impedance match for the four inputs and the output circuit. The value of the building-out resistors (R_B) may be calculated:

$$R_B = \left(\frac{N - 1}{N + 1} \right) Z$$

where,

- R_B is the building-out resistor,
- N is the number of input circuits,
- Z is the circuit impedance.

The loss of the network through any two branches is:

$$20 \log_{10} (N - 1)$$

where,

N is the total number of circuits (4 inputs and 1 output).

Using this equation, the loss for a four-position network is 12 dB. Unused circuits of a combining network must be terminated in a resistive load that is equal to the normal terminating impedance. This type of combining network is often used in sound mixers similar to the one shown in the schematic diagram of Fig. 18.

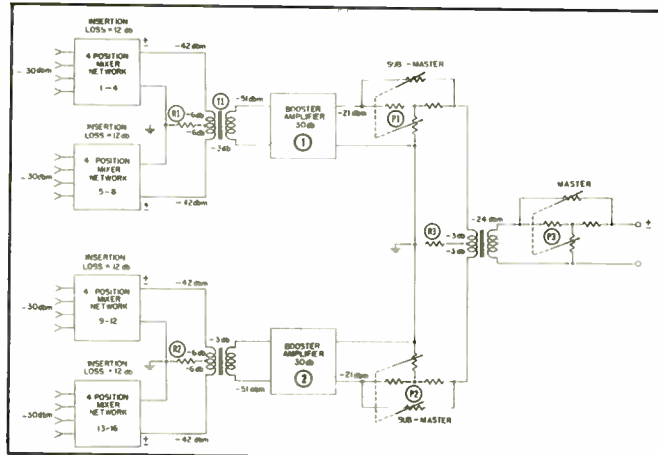


Fig. 20. A 16-position hybrid-coil mixer network.

A more elaborate mixer network and its associated equipment is shown in Fig 19. This network is termed a "split-mixer"; that is, it may be divided into two separate sections by means of a key switch (S1), or combined into a 10-position mixer. The ten positions are shown split into two groups of five positions each. Building-out resistors (R7 and R8) and submaster controls (P5 and P6) for adjusting the overall level of each group are located at the output of each group. Output transformers T3 and T4 may be used to feed a single or two separate recording channels. Such mixers are often used for recording where a vocal group and a large orchestra are located on separate stages during the recording session.

The controls may be of any configuration, provided they are unbalanced and therefore satisfy the impedance requirements. The common side of each mixer control is brought to a common ground point, using *individual* ground wires which are

shielded and covered with a protective plastic or cloth braid to prevent ground loops.

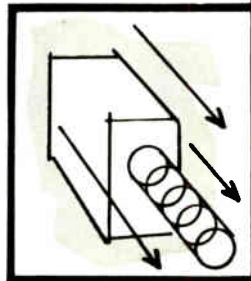
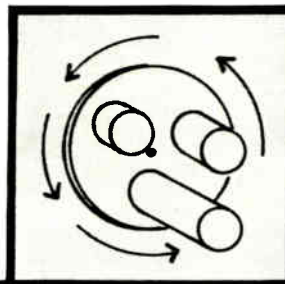
The unbalanced configuration may be changed to a balanced one by connecting half of each resistor in each side of the network as explained for other balanced networks. Of course, the mixer controls must also be changed to balanced configurations. Combining networks have a fixed loss caused by the resistance of the building-out resistors (R₁₁). Increasing the number of mixer positions increases the insertion loss of the network.

To simplify the design procedure of a mixer network, the values of the building-out resistors for networks of 150, 200, 500, and 600 ohms are tabulated in Table 4. For mixer networks of 12 positions or more it is recommended that the controls be separated into groups of four and then combined by means of hybrid coils, as shown in Fig. 20. (The loss and amplifier gains shown in Fig. 20 are for a typical mixer.)

Table 4. Values of Building-Out Resistors and Insertion Loss for Parallel Sound-Mixer Networks

Mixer Positions	Impedance 150Ω			Impedance 200Ω			Impedance 250Ω			Impedance 500Ω			Impedance 600Ω		
	R ₁₁ Ohms	Insertion Loss—dB		R ₁₁ Ohms	Insertion Loss—dB		R ₁₁ Ohms	Insertion Loss—dB		R ₁₁ Ohms	Insertion Loss—dB		R ₁₁ Ohms	Insertion Loss—dB	
		BT, T	Lad.		BT, T	Lad.		BT, T	Lad.		BT, T	Lad.		BT, T	Lad.
2	50.0	6.00	12.00	66.6	6.00	12.00	83.3	6.00	12.00	166.0	6.00	12.00	200.0	6.00	12.00
3	75.0	9.50	15.50	125.0	9.50	15.50	100.0	9.50	15.50	250.0	9.50	15.50	300.0	9.50	15.50
4	90.0	12.00	18.00	120.0	12.00	18.00	150.0	12.00	18.00	300.0	12.00	18.00	360.0	12.00	18.00
5	100.0	14.00	20.00	133.0	14.00	20.00	166.0	14.00	20.00	333.0	14.00	20.00	400.0	14.00	20.00
6	107.0	15.60	21.60	142.8	15.60	21.60	178.5	15.60	21.60	357.0	15.60	21.60	428.4	15.60	21.60
7	112.5	16.90	22.90	150.0	16.90	22.90	187.5	16.90	22.90	375.0	16.90	22.90	450.0	16.90	22.90
8	116.6	18.10	24.10	155.5	18.10	24.10	194.0	18.10	24.10	388.0	18.10	24.10	466.0	18.10	24.10
9	120.0	19.08	25.08	160.0	19.08	25.08	200.0	19.08	25.08	400.0	19.08	25.08	480.0	19.08	25.08
10	123.0	20.00	26.00	163.8	20.00	26.00	202.2	20.00	26.00	409.0	20.00	26.00	491.0	20.00	26.00
11	124.9	20.82	26.82	166.5	20.82	26.82	208.0	20.82	26.82	416.0	20.82	26.82	499.0	20.82	26.82
12	127.0	21.58	27.58	169.1	21.58	27.58	210.8	21.58	27.58	422.5	21.58	27.58	507.0	21.58	27.58

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Ella Wheeler Wilcox

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DECIBEL TABLE

Courtesy Jampro Antenna Company

GIVEN: Decibels

TO FIND: Power and $\left\{ \begin{matrix} \text{Voltage} \\ \text{Current} \end{matrix} \right\}$ Ratios

TO ACCOUNT FOR THE SIGN OF THE DECIBEL

For negative (-) values of the decibel—Both voltage and power ratios are less than unity. Use the two left-hand columns.

For positive (+) values of the decibel—Both voltage and power ratios are greater than unity. Use the two right-hand columns.

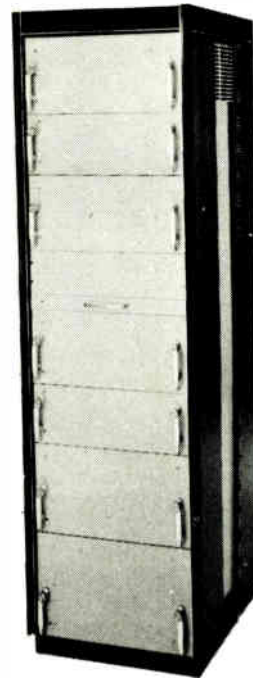
← -dB+ →					← -dB+ →				
Voltage Ratio	Power Ratio	dB	Voltage Ratio	Power Ratio	Voltage Ratio	Power Ratio	dB	Voltage Ratio	Power Ratio
.9886	.9772	.1	1.012	1.023	.4732	.2239	6.5	2.113	4.467
.9772	.9550	.2	1.028	1.047	.4677	.2188	6.6	2.138	4.571
.9661	.9333	.3	1.035	1.072	.4624	.2138	6.7	2.163	4.677
.9550	.9120	.4	1.047	1.096	.4571	.2089	6.8	2.188	4.786
.9441	.8913	.5	1.059	1.122	.4519	.2042	6.9	2.213	4.898
.9333	.8710	.6	1.072	1.148	.4467	.1995	7.0	2.239	5.012
.9226	.8511	.7	1.084	1.175	.4416	.1950	7.1	2.265	5.129
.9120	.8318	.8	1.096	1.202	.4365	.1905	7.2	2.291	5.248
.9016	.8128	.9	1.109	1.230	.4315	.1862	7.3	2.317	5.370
.8913	.7943	1.0	1.122	1.259	.4266	.1820	7.4	2.344	5.495
.8810	.7762	1.1	1.135	1.288	.4217	.1778	7.5	2.371	5.623
.8710	.7586	1.2	1.148	1.318	.4169	.1738	7.6	2.399	5.754
.8610	.7413	1.3	1.161	1.349	.4121	.1698	7.7	2.427	5.888
.8511	.7244	1.4	1.175	1.380	.4074	.1660	7.8	2.455	6.026
.8414	.7079	1.5	1.189	1.413	.4027	.1622	7.9	2.483	6.166
.8318	.6918	1.6	1.202	1.445	.3981	.1585	8.0	2.512	6.310
.8222	.6761	1.7	1.216	1.479	.3936	.1549	8.1	2.541	6.457
.8128	.6607	1.8	1.230	1.514	.3890	.1514	8.2	2.570	6.607
.8035	.6457	1.9	1.245	1.549	.3846	.1479	8.3	2.600	6.761
.7943	.6310	2.0	1.239	1.585	.3802	.1445	8.4	2.630	6.918
.7852	.6166	2.1	1.274	1.622	.3758	.1413	8.5	2.661	7.079
.7762	.6026	2.2	1.288	1.660	.3715	.1380	8.6	2.692	7.244
.7674	.5888	2.3	1.303	1.698	.3673	.1349	8.7	2.723	7.413
.7586	.5754	2.4	1.318	1.738	.3631	.1318	8.8	2.754	7.586
.7499	.5623	2.5	1.334	1.778	.3589	.1288	8.9	2.786	7.762
.7413	.5495	2.6	1.349	1.820	.3548	.1259	9.0	2.818	7.943
.7328	.5370	2.7	1.365	1.862	.3508	.1230	9.1	2.851	8.128
.7244	.5248	2.8	1.380	1.905	.3467	.1202	9.2	2.884	8.318
.7161	.5129	2.9	1.396	1.950	.3428	.1175	9.3	2.917	8.511
.7079	.5012	3.0	1.413	1.995	.3388	.1148	9.4	2.951	8.710
.6998	.4898	3.1	1.429	2.042	.3350	.1122	9.5	2.985	8.913
.6918	.4786	3.2	1.445	2.089	.3311	.1096	9.6	3.020	9.120
.6839	.4677	3.3	1.462	2.138	.3273	.1072	9.7	3.055	9.333
.6761	.4571	3.4	1.479	2.188	.3236	.1047	9.8	3.090	9.550
.6683	.4467	3.5	1.496	2.239	.3199	.1023	9.9	3.126	9.772
.6607	.4365	3.6	1.514	2.291	.3162	.1000	10.0	3.162	10.000
.6531	.4266	3.7	1.531	2.344	.3126	.09772	10.1	3.190	10.23
.6457	.4169	3.8	1.549	2.399	.3090	.09550	10.2	3.236	10.47
.6383	.4074	3.9	1.567	2.455	.3055	.09333	10.3	3.273	10.72
.6310	.3981	4.0	1.585	2.512	.3020	.09120	10.4	3.311	10.96
.6237	.3890	4.1	1.603	2.570	.2985	.08913	10.5	3.350	11.22
.6166	.3802	4.2	1.622	2.630	.2951	.08710	10.6	3.388	11.48
.6095	.3715	4.3	1.641	2.692	.2917	.08511	10.7	3.428	11.75
.6026	.3631	4.4	1.660	2.754	.2884	.08318	10.8	3.467	12.02
.5957	.3548	4.5	1.679	2.818	.2851	.08128	10.9	3.508	12.30
.5888	.3467	4.6	1.698	2.884	.2818	.07943	11.0	3.548	12.59
.5821	.3388	4.7	1.718	2.951	.2786	.07762	11.1	3.589	12.88
.5754	.3311	4.8	1.738	3.020	.2754	.07586	11.2	3.631	13.18
.5689	.3236	4.9	1.758	3.090	.2723	.07413	11.3	3.673	13.49
.5623	.3162	5.0	1.788	3.162	.2692	.07244	11.4	3.715	13.80
.5559	.3090	5.1	1.799	3.236	.2661	.07079	11.5	3.758	14.13
.5495	.3020	5.2	1.820	3.311	.2630	.06918	11.6	3.802	14.45
.5433	.2951	5.3	1.841	3.388	.2600	.06761	11.7	3.846	14.79
.5370	.2884	5.4	1.862	3.467	.2570	.06607	11.8	3.890	15.14
.5309	.2818	5.5	1.884	3.548	.2541	.06457	11.9	3.936	15.49
.5248	.2754	5.6	1.905	3.631	.2512	.06310	12.0	3.981	15.85
.5188	.2692	5.7	1.928	3.715	.2483	.06106	12.1	4.027	16.22
.5129	.2630	5.8	1.950	3.802	.2455	.06026	12.2	4.074	16.60
.5070	.2570	5.9	1.972	3.890	.2427	.05888	12.3	4.121	16.98
.5012	.2512	6.0	1.995	3.981	.2399	.05754	12.4	4.169	17.38
.4955	.2455	6.1	2.018	4.074	.2371	.05623	12.5	4.217	17.78
.4898	.2399	6.2	2.042	4.169	.2344	.05495	12.6	4.266	18.20
.4842	.2344	6.3	2.065	4.266	.2317	.05370	12.7	4.315	18.62
.4786	.2291	6.4	2.089	4.365	.2291	.05248	12.8	4.365	19.05

Engineering Data

← -dB+ →				
Voltage Ratio	Power Ratio	dB	Voltage Ratio	Power Ratio
.2265	.05129	12.9	4.416	19.50
.2239	.05012	13.0	4.467	19.95
.2213	.04898	13.1	4.519	20.42
.2188	.04786	13.2	4.571	20.89
.2163	.04677	13.3	4.624	21.38
.2138	.04571	13.4	4.677	21.88
.2113	.04467	13.5	4.732	22.39
.2089	.04365	13.6	4.786	22.91
.2065	.04266	13.7	4.842	23.44
.2042	.04169	13.8	4.898	23.99
.2018	.04074	13.9	4.955	24.55
.1995	.03981	14.0	5.012	25.12
.1972	.03890	14.1	5.070	25.70
.1950	.03802	14.2	5.129	26.30
.1928	.03715	14.3	5.188	26.92
.1905	.03631	14.4	5.248	27.54
.1884	.03548	14.5	5.309	28.18
.1862	.03467	14.6	5.370	28.84
.1841	.03388	14.7	5.433	29.51
.1820	.03311	14.8	5.495	30.20
.1799	.03236	14.9	5.559	30.90
.1778	.03162	15.0	5.623	31.62
.1758	.03090	15.1	5.689	32.36
.1738	.03020	15.2	5.754	33.11
.1718	.02951	15.3	5.821	33.88
.1698	.02884	15.4	5.888	34.67
.1679	.02818	15.5	5.957	35.48
.1660	.02754	15.6	6.026	36.31
.1641	.02692	15.7	6.095	37.15
.1622	.02630	15.8	6.166	38.02
.1603	.02570	15.9	6.237	38.90
.1585	.02512	16.0	6.310	39.81
.1567	.02455	16.1	6.383	40.74
.1549	.02399	16.2	6.457	41.69
.1531	.02344	16.3	6.531	42.66
.1514	.02291	16.4	6.607	43.65

← -dB+ →				
.1496	.02239	16.5	6.683	44.67
.1479	.02188	16.6	6.761	45.71
.1462	.02138	16.7	6.839	46.77
.1445	.02089	16.8	6.918	47.86
.1429	.02042	16.9	6.998	48.98
.1413	.01995	17.0	7.079	50.12
.1396	.01950	17.1	7.161	51.29
.1380	.01905	17.2	7.244	52.48
.1365	.01862	17.3	7.328	53.70
.1349	.01820	17.4	7.413	54.95
.1334	.01778	17.5	7.499	56.23
.1318	.01738	17.6	7.586	57.54
.1303	.01698	17.7	7.674	58.88
.1288	.01660	17.8	7.762	60.26
.1274	.01622	17.9	7.852	61.66
.1259	.01585	18.0	7.943	63.10
.1245	.01549	18.1	8.035	64.57
.1230	.01514	18.2	8.128	66.07
.1216	.01479	18.3	8.233	67.61
.1202	.01445	18.4	8.318	69.18
.1189	.01413	18.5	8.414	70.79
.1175	.01380	18.6	8.511	72.44
.1161	.01349	18.7	8.610	74.13
.1148	.01318	18.8	8.710	75.86
.1135	.01288	18.9	8.811	77.62
.1122	.01269	19.0	8.913	79.43
.1109	.01230	19.1	9.016	81.28
.1096	.01202	19.2	9.120	83.18
.1084	.01175	19.3	9.226	85.11
.1072	.01148	19.4	9.333	87.10
.1059	.01122	19.5	9.441	89.13
.1047	.01096	19.6	9.550	91.20
.1035	.01072	19.7	9.661	93.33
.1023	.01047	19.8	9.772	95.50
.1012	.01023	19.9	9.886	97.72
.1000	.01000	20.0	10.000	100.00

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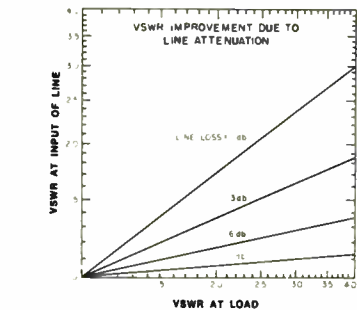
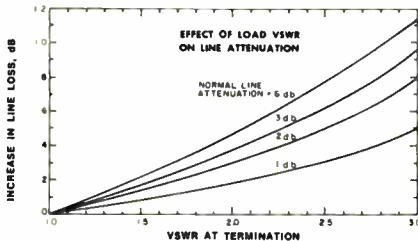
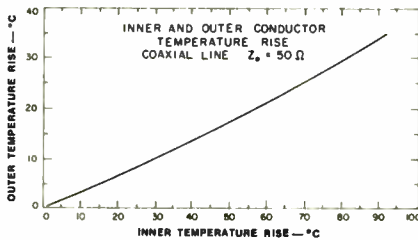
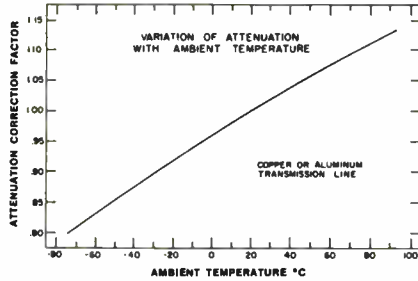
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COAXIAL CABLE DATA

Courtesy Andrew Corporation

Coaxial Transmission Line Attenuation and Power Rating



Attenuation

The following pages show the attenuation versus frequency characteristics of all standard Andrew rigid and HELIAX transmission lines. The values shown are for 24°C (75°F) ambient, and increase slightly with higher temperature or applied power, up to approximately 13% above the curves at full average power rating. The curve at left shows this relationship. Inner and outer conductor temperature rise is also shown for reference.

Effect of VSWR on Attenuation

When transmission line is attached to an antenna, the VSWR of the antenna increases the attenuation of the line. This effect is quite small for normal conditions. The curve shows increase in line loss versus VSWR.

Effect of Attenuation on VSWR

Antenna VSWR, as measured at the input to the connecting transmission line, is reduced by the attenuation of the line. The curves show this relationship.

Power Ratings

Peak and average power ratings are both required to describe fully the capabilities of a given transmission line. Typically, peak power ratings limit the line for low frequency or pulse usage while average power ratings limit the higher frequency usage.

Standard Peak Power Ratings

The permissible voltage between inner and outer conductor of a coaxial cable determines the peak power rating.

Voltage breakdown is independent of frequency, but varies with line pressure and VSWR. Peak power ratings are therefore generally stated for the following conditions: Unity VSWR, no modulation, and one atmosphere absolute dry air pressure. 100% AM modulation reduces the peak power rating by a factor of 4. Peak power rating is given by the following expression.

$$P_{pk} = \frac{(E_{rf})^2}{Z_0(1+M)^2 VSWR} (S_d)^2 \text{ watts}$$

Where M is modulation percentage expressed decimally, VSWR is voltage standing wave ratio on the line, S_d is dielectric strength of the pressurizing medium relative to air, E_{rf} is determined as follows: $E_{rf} = 0.247 E_p$, E_p is the DC production test voltage (the values in the table below are typical), and the constant 0.247 includes factors to relate DC voltage to RF voltage, to adjust to rms value, and includes a safety factor of 2. All of these factors are empirical and have been extensively verified.

Outer Conductor OD, inches	1/8	1/4	3/8	1/2	5/8	3/4	1
E_p volts	6,000	11,000	16,000	19,000	26,000	35,000	50,000

INCREASED PEAK POWER RATINGS can be obtained through pressurization or the use of high dielectric strength gases or both. Variation of peak power rating with absolute pressure and use of dry air and Sulfur Hexafluoride (SF_6) is shown at the right. These curves are based on voltage-pressure tests conducted on transmission lines and components.

STANDARD AVERAGE POWER RATINGS are determined by the safe long term operating temperature of the inner conductor when the cable is operated in a 40°C (104 F) ambient. The ratings are based upon an inner conductor temperature of 100°C (212°F) for HELIAX air dielectric coaxial cable (polyethylene) and 79°C (175°F) for foam HELIAX coaxial cable. Rigid line ratings are based upon an inner conductor temperature of 101°C (216 F).

The curve at the right indicates the variation of average power rating with ambient temperature. Average power rating may be calculated from the following:

$$P_{av} = \frac{16,360 \epsilon D}{dB_1} \text{ watts}$$

where P_{av} = average power rating for conditions described above.

D is OD of line in inches; dB_1 is measured attenuation derated for increase in loss at elevated temperature; and ϵ is heat emissivity coefficient of outer conductor in watts/in.²

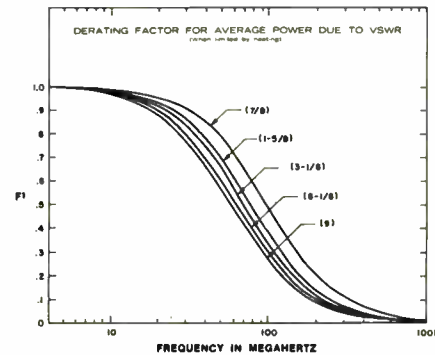
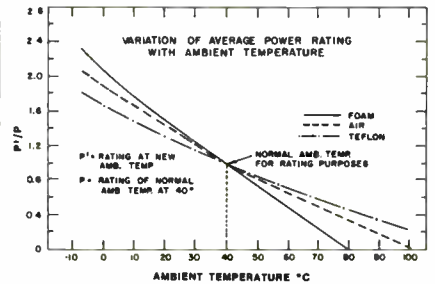
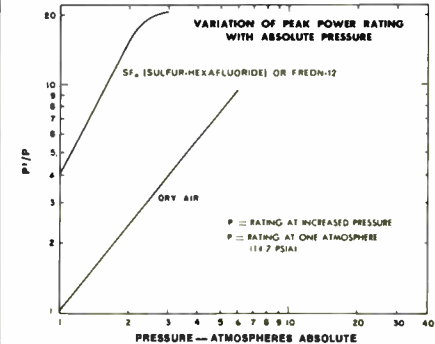
For CW, AM, or FM applications, the average power rating of a cable is determined by derating the presented power curves according to VSWR. See expression below. SSB transmitters are generally rated by peak envelope power (PEP). Average power for these applications is considerably lower, typically about half the PEP. Television transmitter ratings are based on sync peak video power. Average power output for transmission line evaluation is 83% of nominal rating.

DERATING AVERAGE POWER FOR VSWR is accomplished by use of the derating factor (DF) calculated from the following formula.

$$D.F. = \frac{(VSWR^2 + 1)}{(2 VSWR)} + F^1 \frac{(VSWR^2 - 1)}{(2 VSWR)}$$

where F^1 is a factor that varies with frequency and line size. Select the factor from the curve at right.

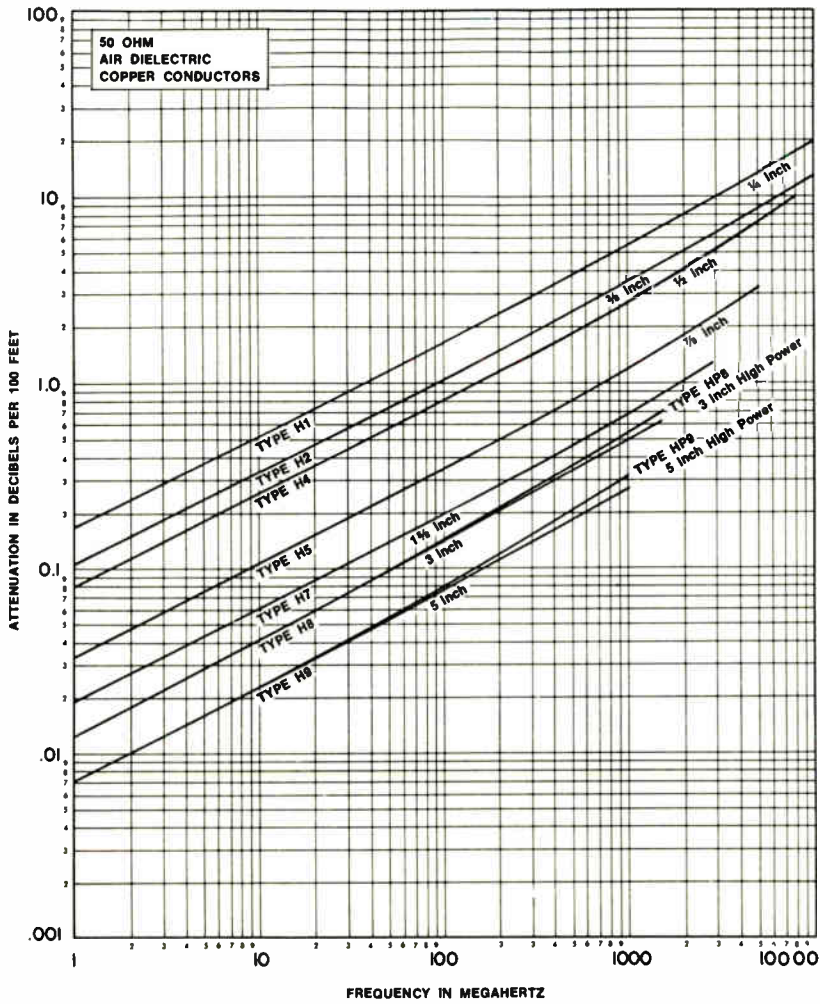
INCREASED AVERAGE POWER RATINGS are achievable by (1) treating the conductor surfaces for greater heat emissivity, (2) pressurizing the line, (3) using a gas with a larger heat transfer coefficient and (4) combination of these. For special applications your Andrew sales engineer will supply complete information.



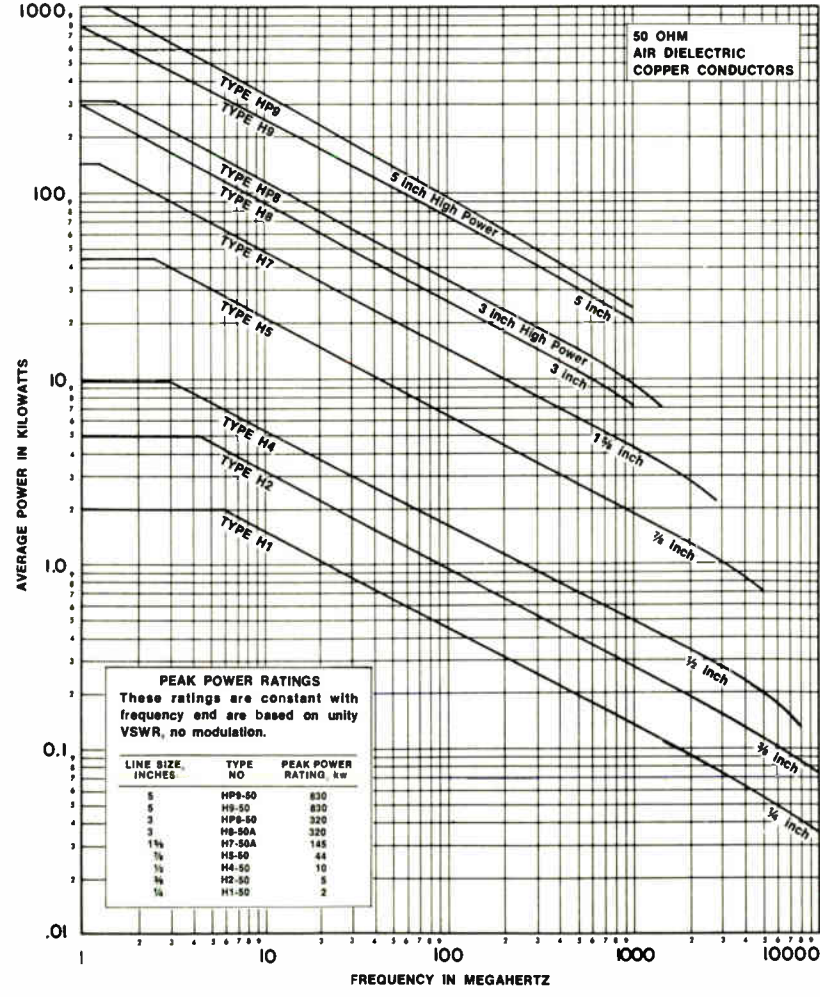
COAXIAL CABLE DATA

Courtesy Andrew Corporation

Attenuation of Helix Coaxial Cables



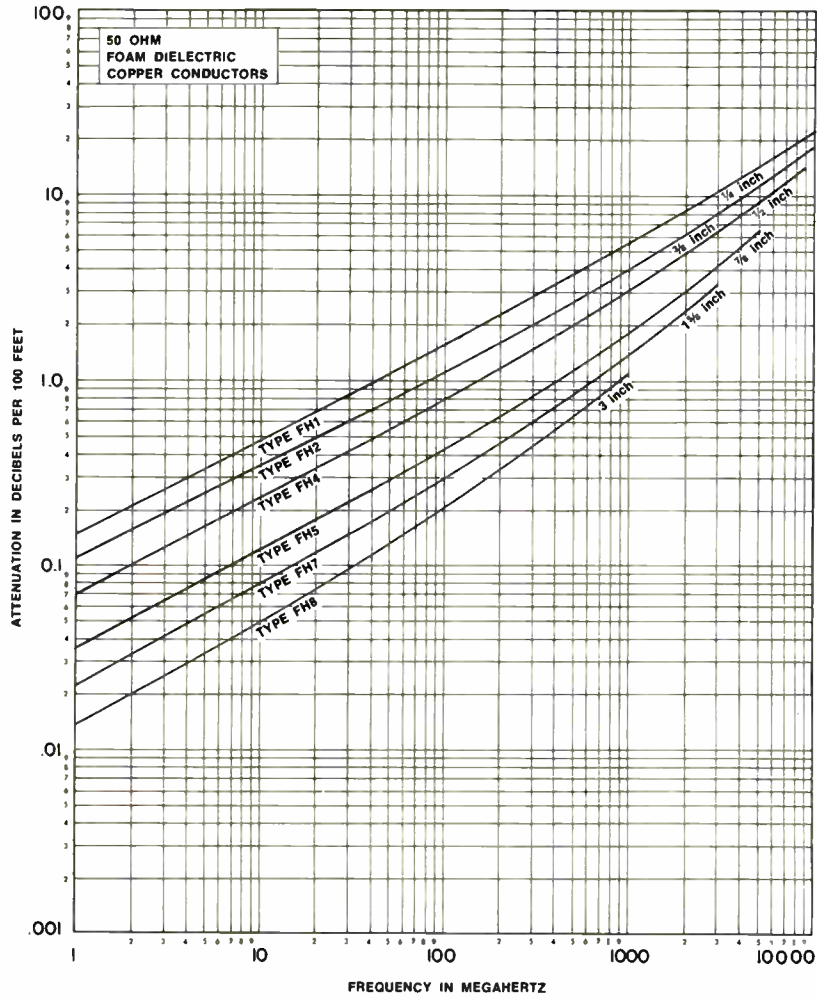
Power Rating of Helix Coaxial Cables



COAXIAL CABLE DATA

Courtesy Andrew Corporation

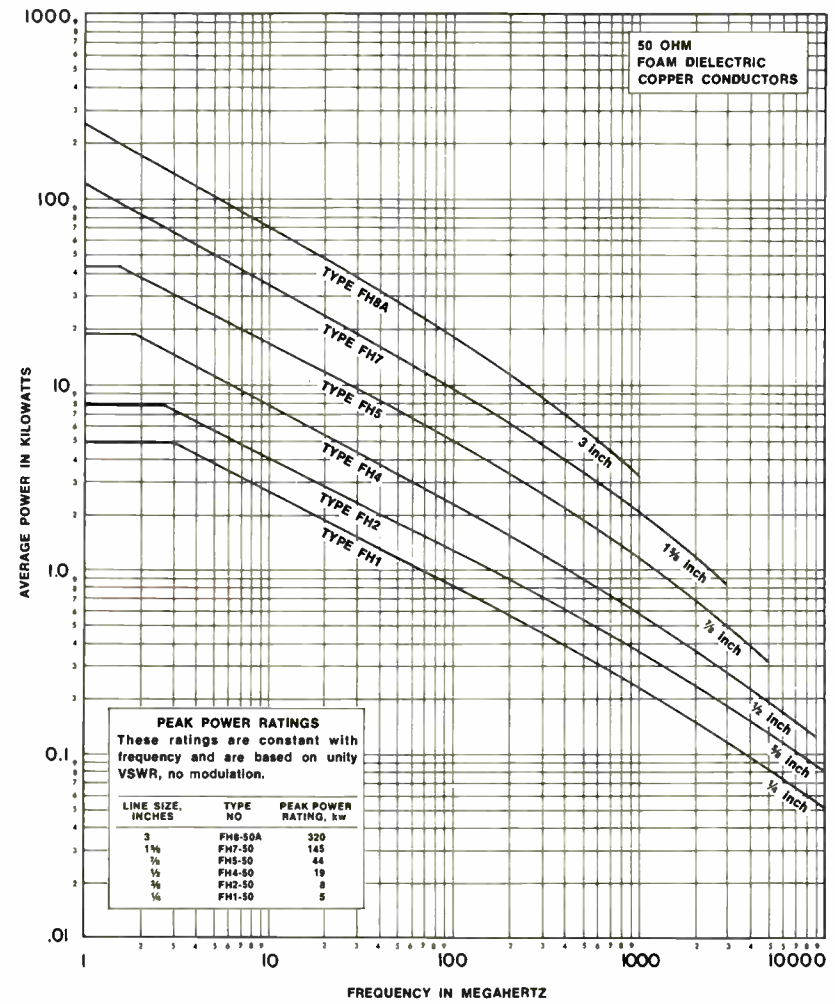
Attenuation of Helix Coaxial Cables



Attenuation curves based on:
VSWR 1.0:1.0
Ambient Temperature 24 C (75 F)

Conversion Data:
1 dB/100 feet 3.28 dB/100 meters
For 75 ohm cables, multiply values by .95.

Power Rating of Helix Coaxial Cables

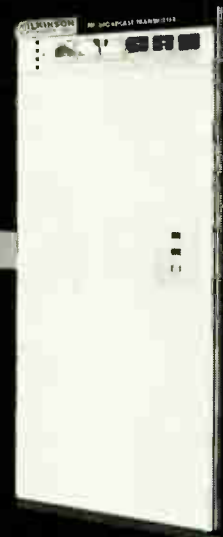


Power Ratings based on:
VSWR 1.0:1.0
Ambient Temperature 40 C (104 F)
Inner conductor temperature 79°C (175°F)

Conversion Data:
For ambient temperature 35°C (95°F), multiply values by 1.13

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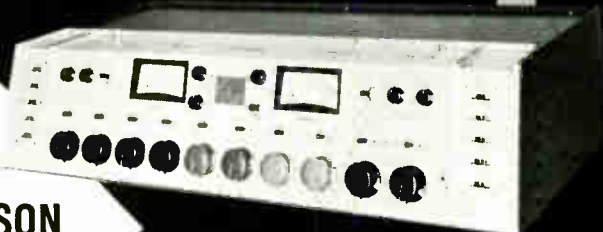
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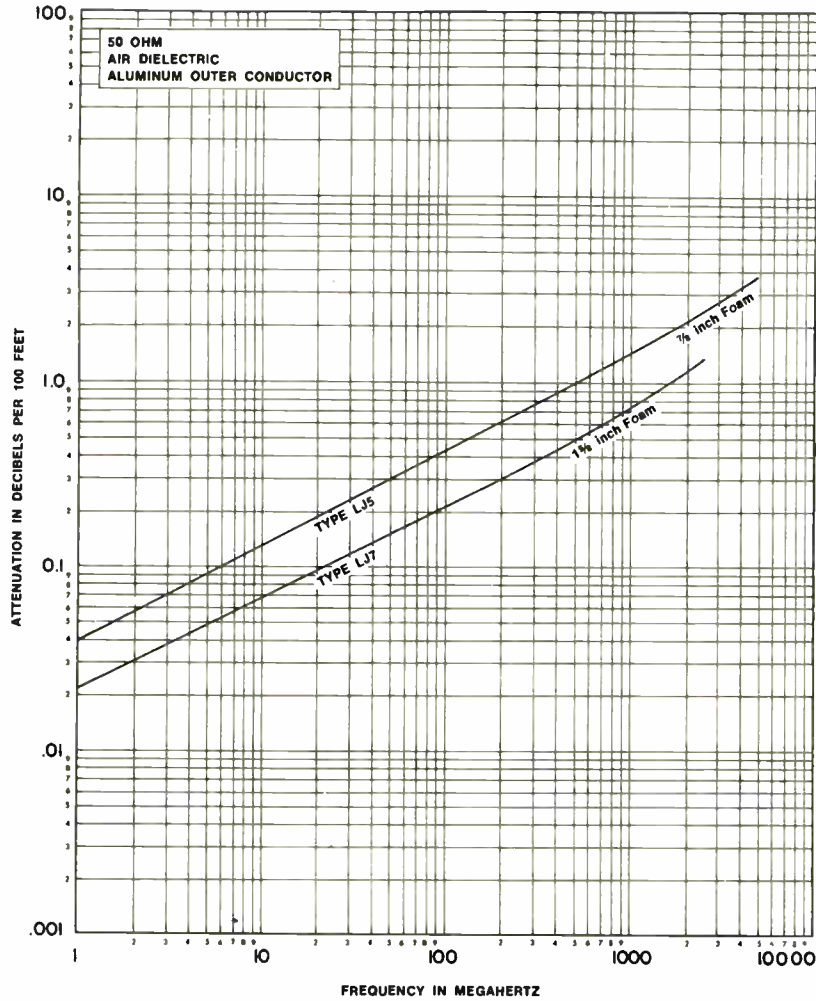


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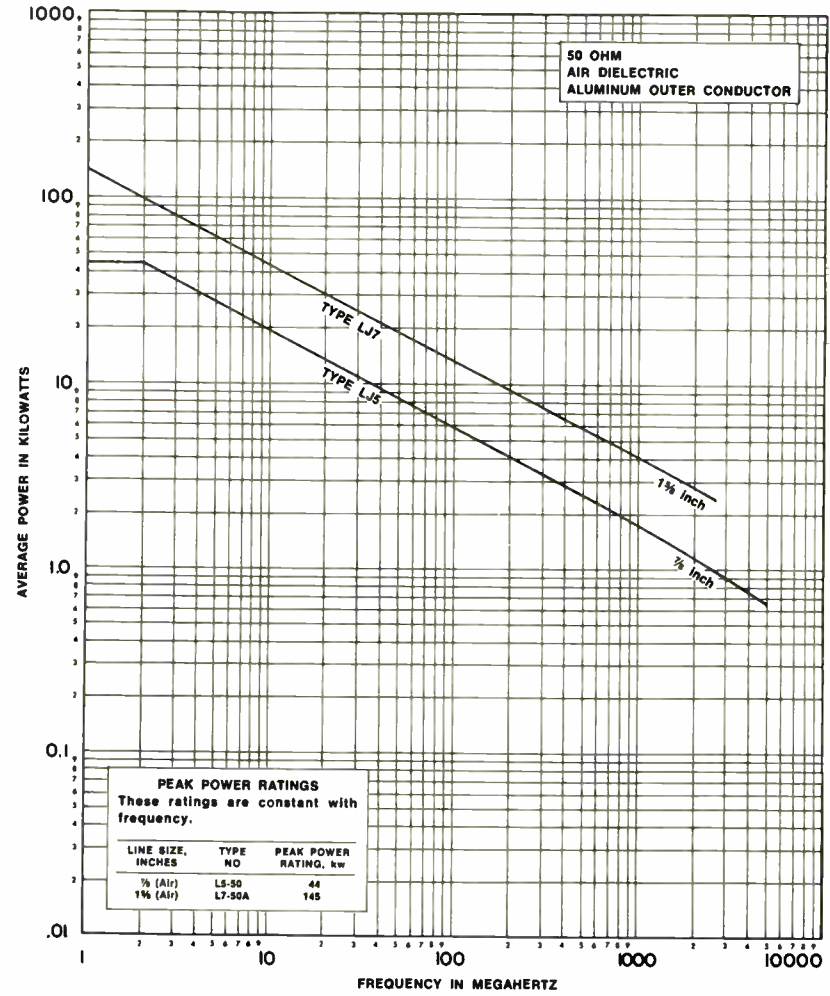
Attenuation of Heliax Coaxial Cables



Attenuation curves based on:
VSWR 1.0:1.0
Ambient Temperature 24°C (75 F)

Conversion Data:
1 dB/100 feet 3.28 dB/100 meters
For 75 ohm cables, multiply values by .95.

Power Rating of Heliax Coaxial Cables



Power ratings based on:
VSWR 1.0:1.0
Ambient Temperature 40°C (104°F)
Inner conductor temperature 100°C (212°F)
One atmosphere absolute dry air pressure

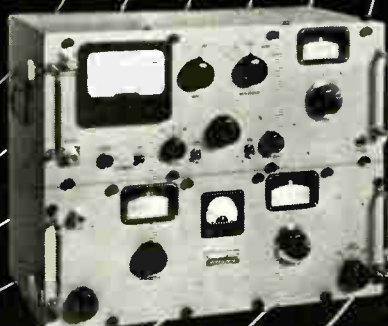
Conversion Data:
For 75 ohm cables, multiply values by .7C.
For ambient temperature 35°C (95 F), multiply values by 1.08

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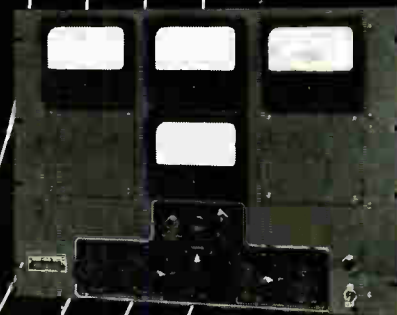
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most specified for antenna
and signal measurement



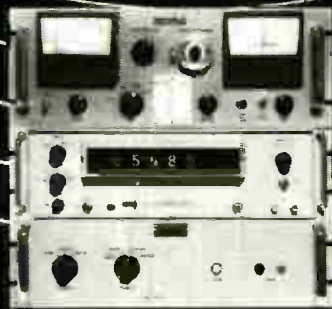
112 PHASE MONITOR



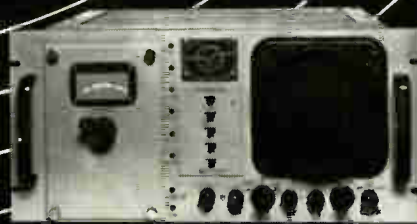
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PRECISION PHASE MONITOR



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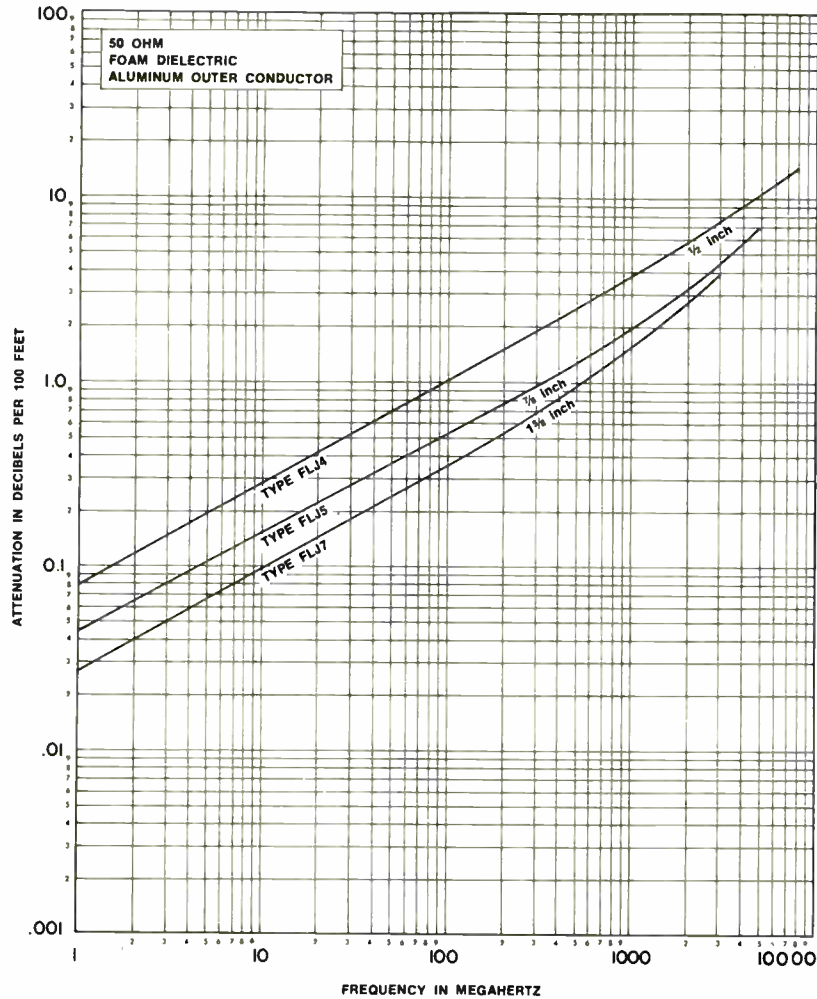
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Courtesy Andrew Corporation

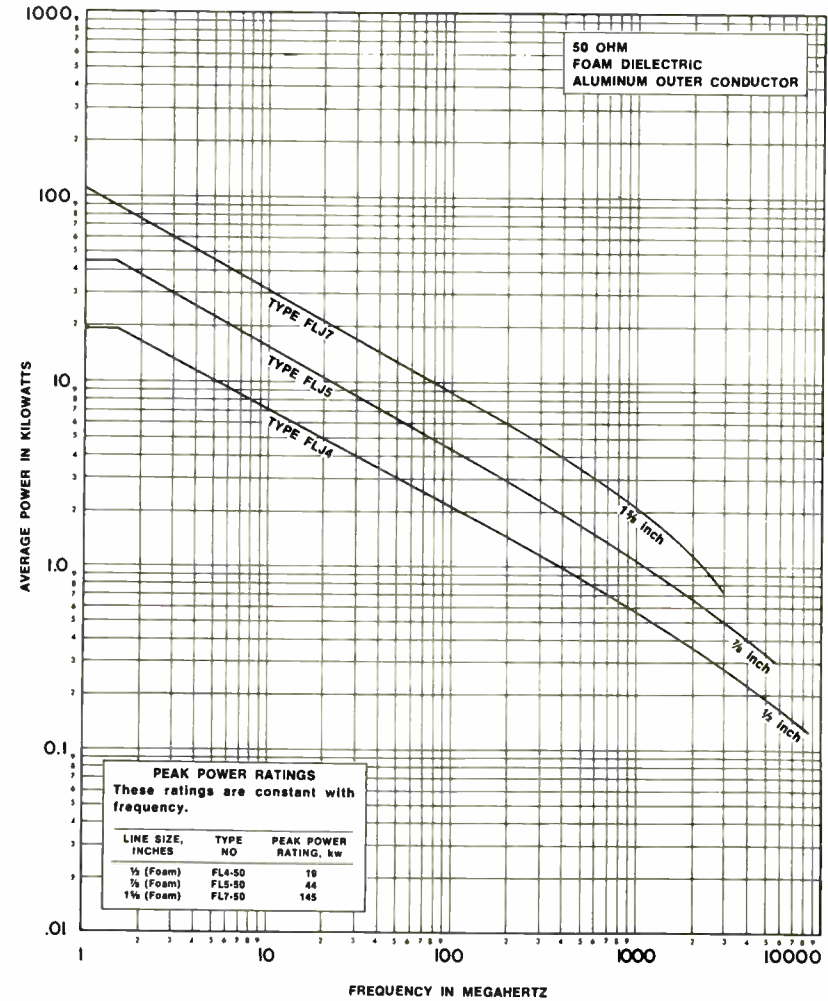
Attenuation of Heliax Coaxial Cables



Attenuation curves based on:
VSWR 1.0:1.0
Ambient Temperature 24°C (75°F)

Conversion Data:
1 dB/100 feet = 3.28 dB/100 meters
For 75 ohm cables, multiply values by .95.

Power Rating of Heliax Coaxial Cables



Power ratings based on:
VSWR 1.0:1.0
Ambient Temperature 40°C (104°F)
Inner conductor temperature 79°C (175°F)

Conversion Data:
For ambient temperature 35 C (95 F), multiply values by 1.13

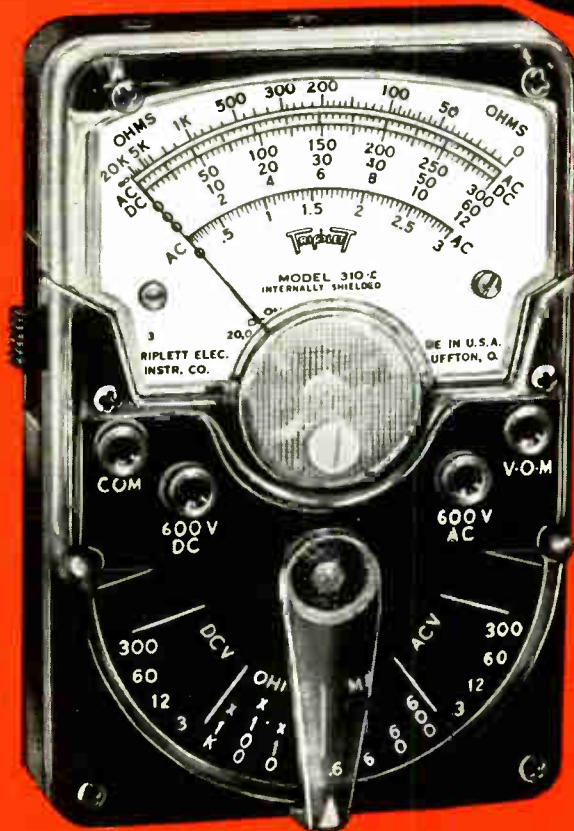
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3. Reversing switch for DC measurements

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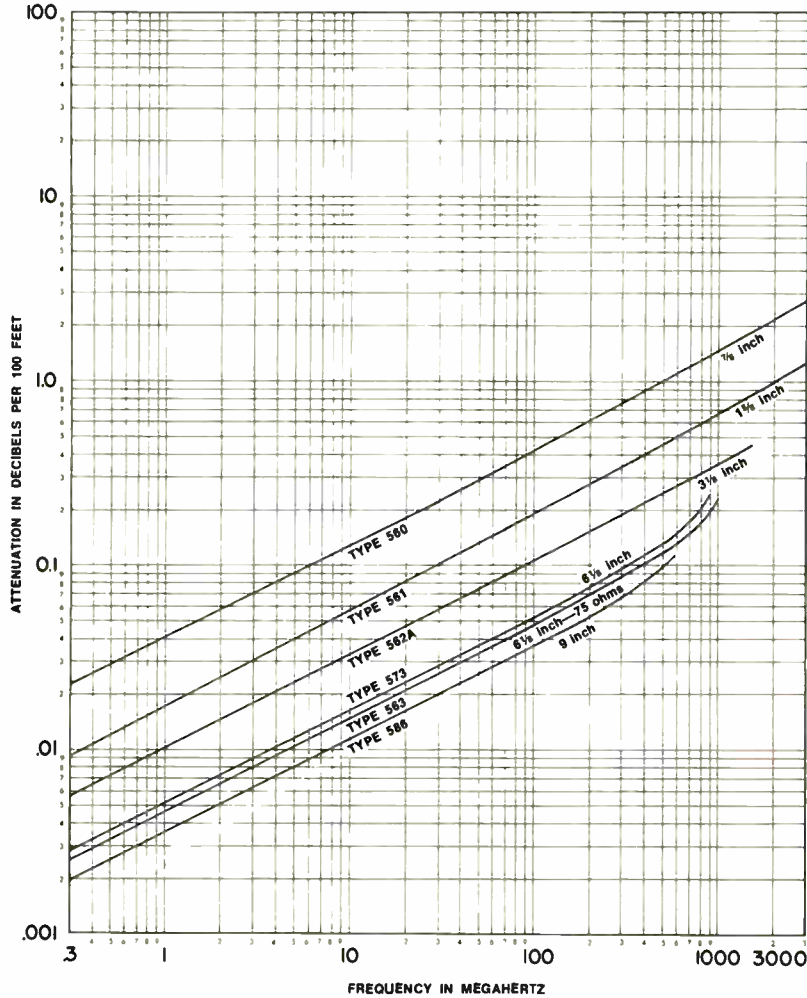
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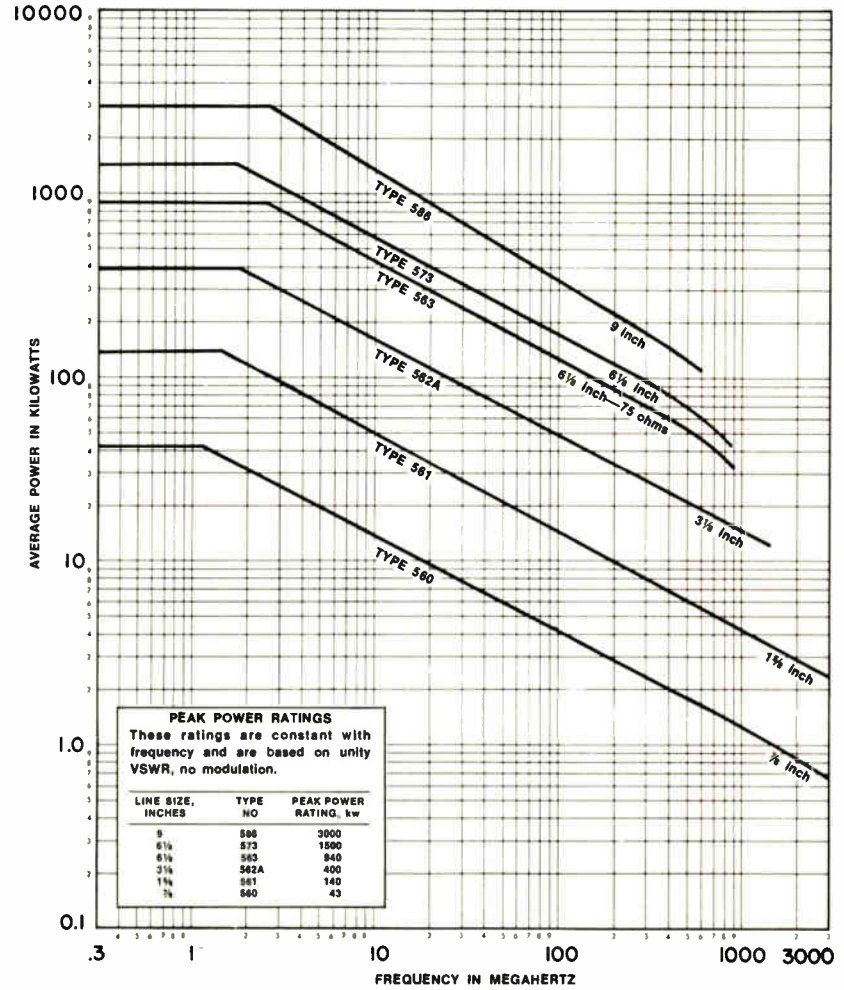
Attenuation of Rigid Transmission Lines



Attenuation curves based on:
VSWR 1.0:1.0
Ambient Temperature 24°C (75°F)

Conversion Data:
1 dB/100 feet = 3.28 dB/100 meters
Ambient Temperature 35°C (95°F)

Power Rating of Rigid Transmission Lines



PEAK POWER RATINGS
These ratings are constant with frequency and are based on unity VSWR, no modulation.

LINE SIZE, INCHES	TYPE NO	PEAK POWER RATING, kw
9	586	3000
8 1/2	573	1500
8	563	840
6 1/2	562A	400
3	561	140
1 1/2	560	43

Power ratings based on:
VSWR 1.0:1.0
Ambient Temperature 40°C (104°F)
Inner conductor temperature 102°C (216°F)
One atmosphere absolute dry air pressure

Conversion Data:
For ambient temperature 35°C (95°F), multiply values by 1.08

TRANSMISSION LINES



HELIAX® FLEXIBLE COAXIAL CABLES



AIR DIELECTRIC—50 ohms								FOAM DIELECTRIC—50 ohms							
Size, in.	¼	⅜	½	¾	1 ½	3	5	Size, in.	¼	⅜	½	¾	1 ½	3	
Type No.	H1	H2	H4	H5	H7	H8	H9	Type No.	FH1	FH2	FH4	FH5	FH7	FH8	
Type No. Jacketed	HJ1	HJ2	HJ4	HJ5	HJ7	HJ8	HJ9	Type No. Jacketed	FHJ1	FHJ2	FHJ4	FHJ5	FHJ7	FHJ8	
Mox. Freq. GHz	23	15.5	10.9	5.2	2.63	1.64	960Mc	Mox. Freq. GHz	20	12	8.1	4.4	2.3	1.5	
Peak Power Rating, kw	2	5	9.8	44	145	320	830	Peak Power Rating, kw	5	8	19	44	145	320	
Velocity, %	85	85	91.4	91.6	92.1	93.3	93.0	Velocity	79	79	79	79	79	92	
Bending Radius, in.	2.5	3.7	5	10	20	30	50	Bending Radius, in.	2.5	3.7	5	10	20	50	
Net Wt. lbs./ft.	.07	.14	.20	.43	.72	1.2	3	Net Wt. lbs./ft.	.06	.12	.19	.36	1.06	3	



CONNECTORS



AIR DIELECTRIC—50 ohms								FOAM DIELECTRIC—50 ohms							
Size, in.	¼	⅜	½	¾	1 ½	3	5	Size, in.	¼	⅜	½	¾	1 ½	3	
EIA Flange	—	—	—	75AR	87R	78R	79R	EIA Flange	—	—	44AR	45AR	47R	48R	
"N" Jack	71N	72N	74N	75AN	87N	—	—	"N" Jack	41N	42N	44AN	45AN	47N	—	
"N" Plug	71W	72W	74W	75AW	—	—	—	"N" Plug	41W	42W	44AW	45AW	47W	—	
UHF Jack	—	—	74U	75AU	87U	—	—	UHF Jack	41U	—	44AU	45AU	—	—	
LC Jack	—	—	—	75AL	87L	78L	—	LC Jack	—	—	44AL	45AL	47L	—	
LC Plug	—	—	—	75AM	87M	—	—	LC Plug	—	—	44AM	45AM	—	—	
End Terminal	71T	—	74T	75AT	87T	—	—	End Terminal	—	—	44AT	45AT	—	—	
Splice	71Z	72Z	74Z	75AZ	87Z	78Z	79Z	Splice	—	—	44AZ	45AZ	47Z	48Z	
								UHF Plug	41P	42P	44AP	45AP	—	—	

WAVEGUIDES



HELIAX® ELLIPTICAL WAVEGUIDES

Flexible waveguide for use in microwave bands from 3.7 GHz to 13 GHz. Long lengths minimize layout and installation time. Connectors mate with MIL standard or EIA flanges.

Type No.	Frequency GHz	Attenuation Midband db/100'
EW-37	3.7- 4.2	.8
EW-44	4.4- 5.0	1.4
EW-56	5.6- 6.4	1.5
EW-59	5.9- 7.1	1.7
EW-71	7.1- 8.5	2.1
EW-85	8.5-10.0	2.8
EW-107	10.7-11.7	3.4
EW-122	12.2-13.2	4.3

RECTANGULAR and CIRCULAR WAVEGUIDES Stocked in commonly used sizes.

DEHYDRATORS—Type 1920, automatic dehydrator delivers dry air pressure at 5-8 psig with dew point of -37°F, output 1 cfm.

Low pressure dehydrators, dry air hand pumps, regulating and distribution systems, and alarm units are also available.



COAXIAL SWITCHES

Type 6750 (6 ½" line), Type 6740A (3 ½" line) and Type 6730A (1 ½" line) permit rapid switching of pairs of transmission lines operating into the UHF frequency band. Peak power ratings are 100 KW in 1 ½" size, 300 KW in 3 ½" size and 1500 KW in 6 ½" size. Control panel with indicators available for remote or manual control of Andrew switching systems.

RIGID TRANSMISSION LINES—Andrew offers a complete selection (½" to 9") of 50 ohm transmission lines and accessories. All items are fully compatible with applicable EIA standards.

CHARACTERISTICS					
Size	½"	1 ½"	3 ½"	6 ½"	9"
Type No.	560	561	562A	573	586
Mox. Freq. MHz	3000	2700	1600	750	440
Peak Power, kw	43	140	400	1500	3000
Weight, pounds per 20 ft. sec.	13	25	55	135	310



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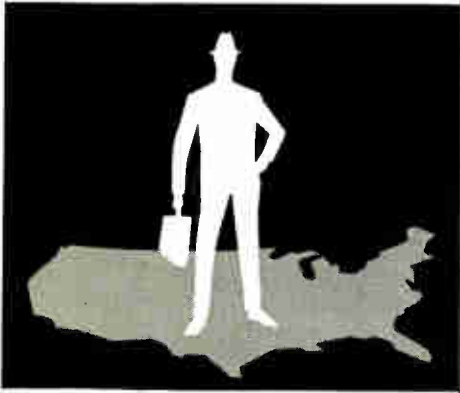
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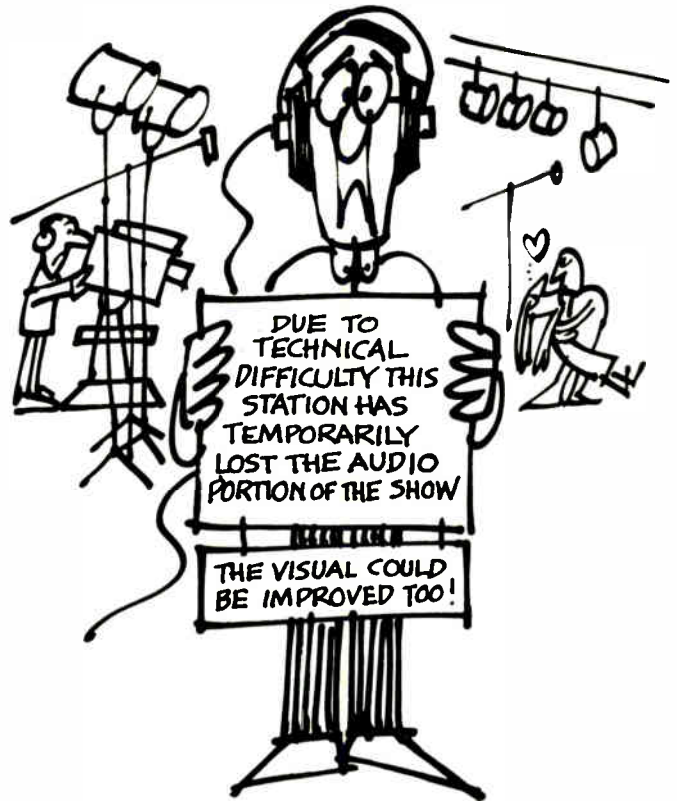
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**MODEL 500B
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MODEL 500BR (RECORDER/REPRODUCER)



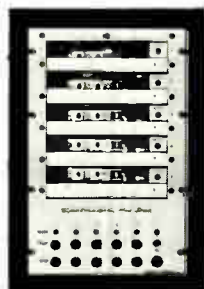
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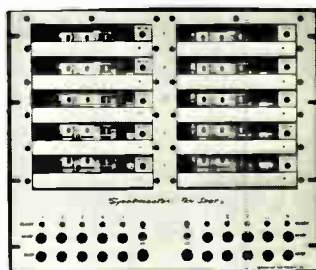
**MODEL 400A
(RECORDER/REPRODUCER)**



MODEL 500BS — STEREO



**MODEL 505B
(REPRODUCER)**



**MODEL 610B
(REPRODUCER)**

500/505 Super B SPOTMASTER Series 500 Super B cartridge equipment is unexcelled in performance and long term proven reliability. Available in models to meet every programming need: record/reproduce, reproduce only—compact or rack mounted. Specifications and performance equal or exceed NAB standards. Features include ease of operation, high reliability, solid state plug-in amplifiers, 1, 2 or 3 automatic electronics cueing tones, separate record and play heads, biased cue recording, hysteresis synchronous motor, selective test meter switch, triple zener controlled power supply, transformer output, feather touch illuminated push button switches and a one year parts and labor guarantee. Prices start at **\$510.00**.

400A/405A SPOTMASTER Series 400 equipment offers traditional SPOTMASTER performance and reliability for the economy minded station. Don't let their low price fool you. New solid state SPOTMASTER compact models are second-best only to the Super B Series. Offered in record-playback (Model 400) and playback-only (Model 405) versions, the compacts permit even the smallest station to enjoy SPOTMASTER pushbutton broadcasting. Compact units carry a 90-day parts and labor guarantee. Many of the features of the Super B equipment are included in the 400 series. Write for complete details. Prices begin at **\$415.00**.

Stereo SPOTMASTER stereo units are available in four different models. The compact 500B-S (combination record/reproduce); the compact 505B-S (reproduce only); the rack mount 500BR-S (combination record/reproduce); and the rack mount 505BR-S (reproduce only). Stereo equipment is a part of the Super B Series and carries essentially the same specifications. Prices begin at **\$645.00**. Write for complete details.

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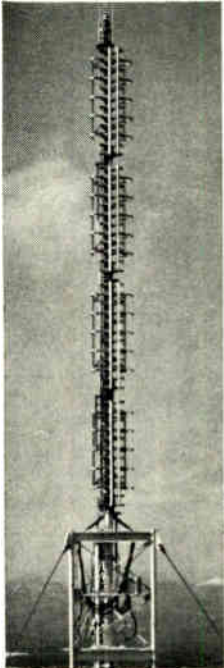
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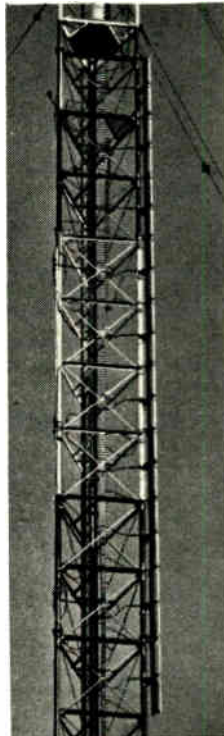
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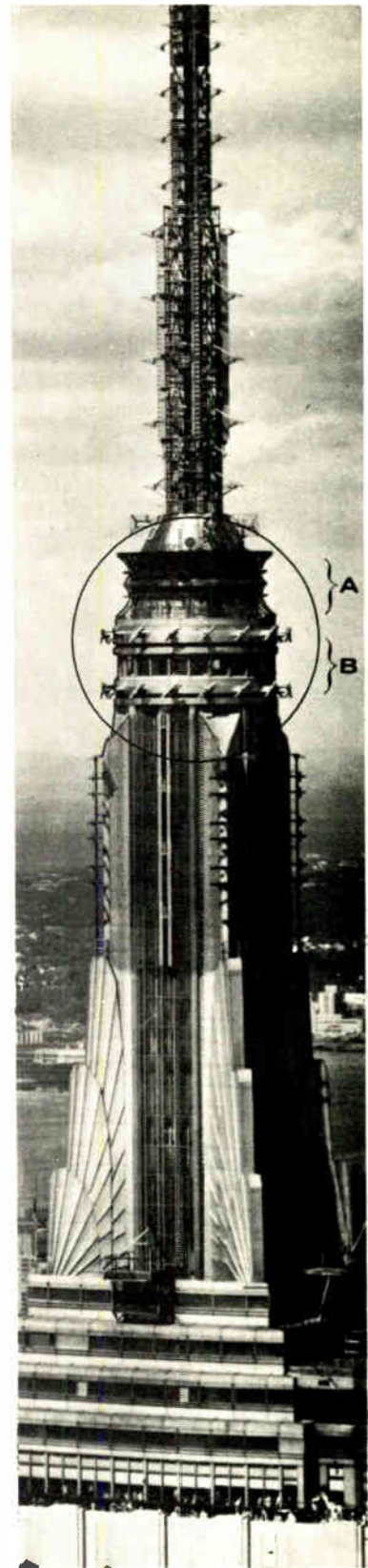
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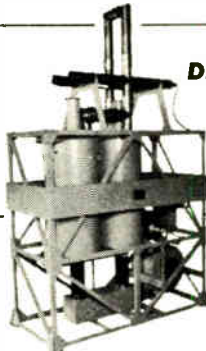
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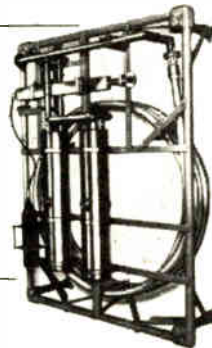
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