

DESCRIPTIVE CATALOG OF RADIO BATTERIES



*OPEN
and see for
yourself!*

*WITH NEW
INTERLOCKED
FLAT CELL
"B" Batteries
that give...
MUCH LONGER
HI-VOLTAGE
LIFE!!!*



**CORRECT SERVICE
For 3 Major Markets**



PERSONAL



PORTABLE -



FARM

OLIN INDUSTRIES, INC.

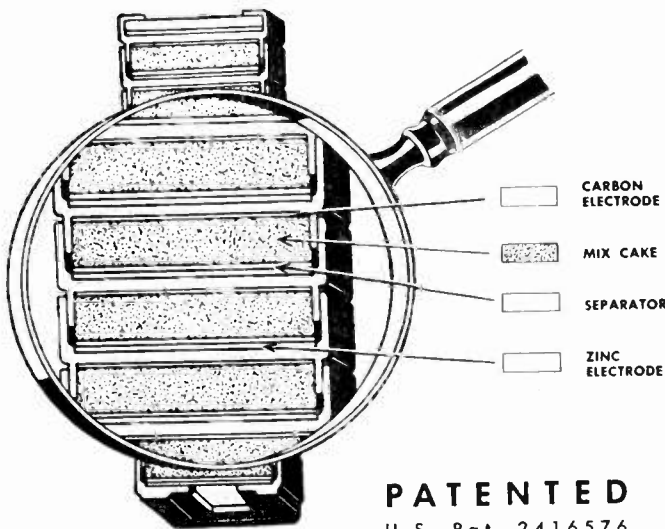
Electrical Division, New Haven, Conn. and Branches

LATEST DEVELOPMENT IN

POWER!

ONLY OLIN "B" BATTERIES HAVE THIS
NEW INTERLOCKED FLAT CELL CONSTRUCTION

ALREADY STANDARD EQUIPMENT WITH 15 RADIO SET MANUFACTURERS



PATENTED
U. S. Pat. 2416576

EXCLUSIVE

NOTE:

OLIN Interlocked flat cells have no waste space and hold more power producing chemicals than previous conventional "B" battery assemblies.

Result:

LONGER HI-VOLTAGE LIFE!



| Catalog Number | Dimensions H x W x D | Std Pkg | Std Pkg Wgt | Dir Unit Canton | Bond | Comparative Numbers | | | | |
|-------------------------|-------------------------|------------------------------|-------------------|-----------------------|------|---------------------|----------|-----------|------|-------|
| | | | | | | Burgess | Eveready | Roy-O-Vac | RCA | |
| "B" BATTERIES | 1710 - 67-1 2 Volt "B" | 3-11/16" x 2-3/4" x 1-3/8" | 12 | 10-1/2 | 6 | 1710 | XX45 | 467 | 4367 | VS016 |
| | 1712 - 67-1 2 Volt "B" | 2-5 16" x 2-11/16" x 1-5/16" | 24 | 12 | 6 | 1712 | | 457 | | |
| | 1713 - 90 Volt "B" | 3-23 32" x 1-3/8" x 3-11/16" | 6 | 6 | 6 | 1713 | | 490 | | |
| | 6211 - 45 Volt "B" | 3-5 8" x 2-5/8" x 15/16" | 12 | 6-1 2 | 6 | 6211 | XX30 | 455 | | VS055 |
| "A" BATTERIES | 3816 - 4-1/2 Volt "A" | 3-15/16" x 1-5/16" x 4" | 10 | 11 | 10 | 3816 | | 736 | | |
| | 4919 - 6 Volt "A" | 2-11/32" x 1-5/32" x 1-5/32" | 24 | 4-1 2 | 12 | 4919 | | 724 | | |
| | 1511 - 1-1 2 Volt "A" | 2-1/4" x 1-1/4" | 480 | 107 | 48 | 102 | 2 | 950 | 2LP | VS036 |
| | 1311 - 1-1 2 Volt "A" | 1-13/16" x 15/16" | 60 | 7 | 12 | 101 | 1 | 935 | 1LP | VS033 |



| Catalog Number | Dimensions H x W x D | Std Pkg | Std Pkg Wgt | Dir Unit Canton | Bond | Comparative Numbers | | | | |
|-------------------------|---|-------------------------------|-------------------|-----------------------|------|---------------------|----------|-----------|-------|-------|
| | | | | | | Burgess | Eveready | Roy-O-Vac | RCA | |
| "B" | 6210 - 45 Volt "B" with new interlocked flat cells | 5-1/2" x 3-1/2" x 1-3/4" | 6 | 11 | 6 | 6210 | M30 | 482 | P7830 | VS013 |
| "A" BATTERIES | 4918 - 4-1/2 Volt "A" correct for 249 Portable Radios | 4-11/16" x 3-7/8" x 1-5/16" | 10 | 13 | 10 | 4918 | G3 | 746 | P83A | VS002 |
| | 4816 - 1-1/2 Volt "A" correct for 224 Portable Radios | 4" x 2-9/6" x 2-9/16" | 10 | 15 | 10 | 4816 | 4F | 742 | P94A | VS004 |
| | 4819 - 1-1/2 Volt "A" correct for 143 Portable Radios | 5-5/16" x 3-11/16" x 2-9/16" | 6 | 18 | 6 | 4819 | 8F | 741 | P98A | |
| | 4815 - 6 Volt "A" correct for 98 Portable Radios | 3-13/16" x 10-13/16" x 1-3/8" | 6 | 20 | 6 | 4815 | 2F4L | 747 | P698L | VS011 |
| | 4814 - 1-1/2 Volt "A" correct for 83 Portable Radios | 4" x 3-13/16" x 2-9/16" | 6 | 13 | 6 | 4814 | 6F | 743 | P96A | VS007 |
| | 4914 - 6 Volt "A" | 4" x 2-9/16" x 2-9/16" | 10 | 15 | 10 | 4914 | F4PI | 744 | P694A | VS009 |
| | 4817 - 6 Volt "A" | 5-9/16" x 3-13/16" x 2-11/16" | 10 | 30 | 10 | 4817 | 2F4 | 718 | P698A | VS010 |
| | 4813 - 1-1/2 Volt "A" | 3-13/16" x 10-13/16" x 1-3/8" | 6 | 20 | 6 | 4813 | 8FL | 745 | P98L | VS008 |



SEE
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BATTERIES

BATTERY COMPARATIVE GUIDE CHART

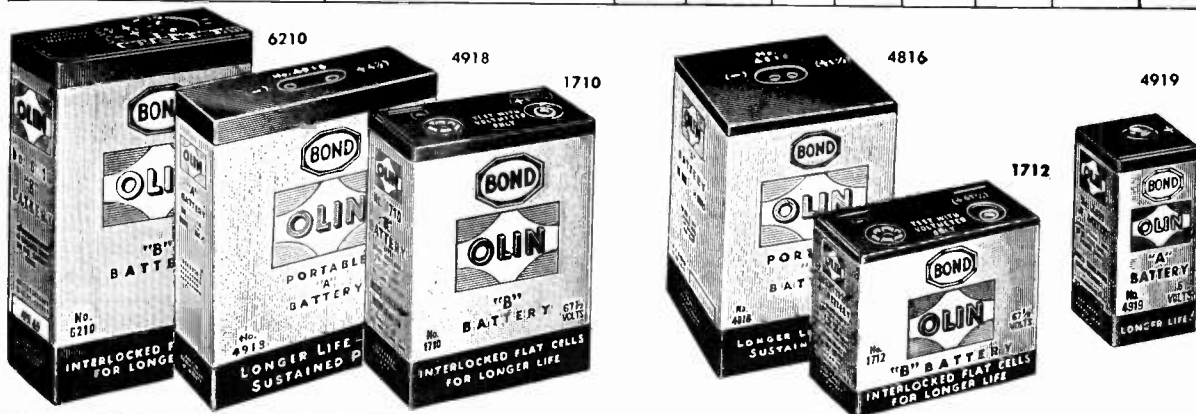
PORTABLE

| WINCHESTER OLIN | BOND (old) | BURGESS | EVE-READY | GENERAL | PHILCO | RAY-O-VAC | R.C.A. | SEARS | WARD | WILLARD | ZENITH | BOND OLIN |
|-----------------|------------|---------|-----------|--|---------|-----------|--------|-------|-------|----------|--------|-----------|
| 0513 | | | | 60B6L | P60B6L | AB85 | VS021 | 06303 | A59M | 60B6L | | 0513 |
| 0614 | | F6A60 | 753 | 60A6F6 5 | P841A | AB994 | VS019 | | A33 | 60A6F6/5 | P841A | 0614 |
| 0615 | | G6M60 | 754 | 60B6F6 5 | | AB878 | VS018 | | A35M | 60B6F6/5 | | 0615 |
| 0616 | | G6-B60 | 752 | Z60B6F6 | P60B6F6 | AB995 | VS047 | 6401 | | WZ-3 | Z985 | 0616 |
| 0616W | | | 752W | | | | | | | | Z985X | 0616W |
| 1311 | 101 | 1 | 935 | C | C | 1LP | VS033 | 4659 | A3258 | C | Z1NL | 101 |
| 1511 | 102 | 2 | 950 | D | D | 2LP | VS036 | 4650 | A3259 | D | Z2NL | 102 |
| 1710 | 1720 | XX45 | 467 | W45A | P67 | 4367 | VS056 | 6480 | A43 | WBM-2 | Z45 | 1710 |
| 1712 | | | 457 | For new Emerson personal portable No. 558, No. 584 | | | | | | | | 1712 |
| 1713 | | | 490 | For new Emerson personal portable No. 559, No. 560 | | | | | | | | 1713 |
| 3816 | | | 736 | For new Emerson personal portable No. 559, No. 560 | | | | | | | | 3816 |
| 4813 | 4823 | 8FL | 745 | BCF1 | | P98L | VS008 | | | | | 4813 |
| 4814 | 4824 | 6F | 743 | 6F1 | | P96A | VS007 | 6431 | | 6F1 | Z96 | 4814 |
| 4815 | 4825 | 2F4L | 747 | 8CF4 | | P698L | VS011 | 6452 | | | Z69BL | 4815 |
| 4816 | 4826 | 4F | 742 | 4F1 | P94 | P94A | VS004 | 6430 | A21 | 4F1 | Z94 | 4816 |
| 4817 | 4827 | 2F4 | 718 | BF4 | | P698A | VS010 | 6450 | | WA4-1 | | 4817 |
| 4819 | 4829 | BF | 741 | BF1 | P8F1 | P98A | | | | BF1 | | 4819 |
| 4914 | | F4PI | 744 | 4F4 | | P694A | VS009 | 6451 | A28 | | | 4914 |
| 4918 | 4928 | G-3 | 746 | 3H3 | P100 | P83A | VS002 | 6440 | A24 | WA3-1 | Z83A | 4918 |
| 4919 | | | 724 | For new Emerson personal portable No. 558, No. 584 | | | | | | | | 4919 |
| 6210 | 6220 | M30 | 482 | W30B | P45 | P7830 | VS013 | 6461 | A42 | WBM-1 | Z783 | 6210 |
| 6211 | | XX30 | 455 | W30A | | | VS055 | | | | | 6211 |

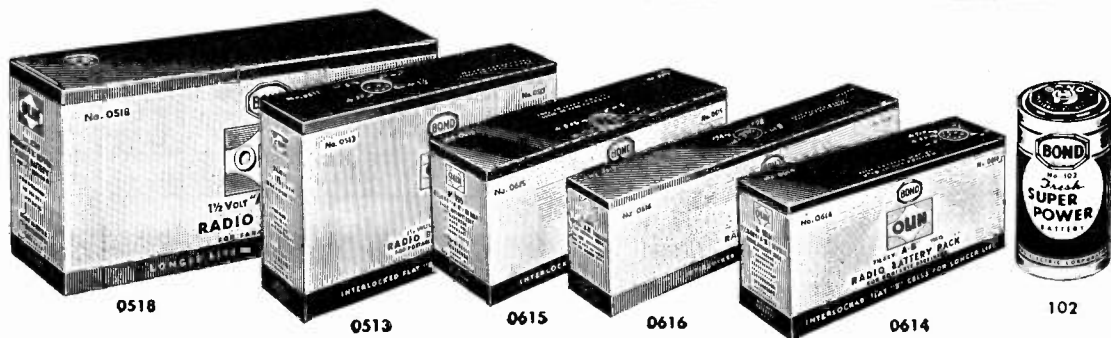
FARM AND CONSOLE RECEIVERS

| | | | | | | | | | | | | |
|--------|------|--------|-----|----------|---------|-------|-------|-------|------|----------|------|--------|
| 0511 | | 18GD60 | | Z60D12L | | | VS045 | 06309 | | | Z28 | 0511 |
| 0512 | | 3GLD60 | | E60D12L6 | | AB982 | | | A54M | | Z334 | 0512 |
| 0513 | | | | 60B6L | P60B6L | AB85 | VS021 | 06303 | A59M | 60B6L | | 0513 |
| 0518 | 0528 | 17GD60 | 758 | 60DL11L | P60D11L | AB82 | VS022 | 06302 | A57M | 60DL-11L | Z802 | 0518 |
| 3217 | 317 | 5360 | 781 | H3B | | 531R | VS028 | | | H3B | | 3217 |
| 3516 | 312 | 2370PI | 771 | H3D | P3D | P231W | VS030 | 5005 | A83 | H3D | | 3516 |
| 5216 | 1517 | 5156 | 768 | H15B | P15B | P5151 | VS031 | 6390 | A84 | H15B | | 5216 |
| 5216-B | 1519 | 5156 | 778 | H15B8 | | 5151 | VS131 | | | | | 5216-B |
| 5218 | 517 | 5540 | 773 | V5B | P5B | 551 | VS029 | | | V5B | | 5218 |

| | Catalog Number | Dimensions H x W x D | Std Pkg | Std Pkg Wgt | Dir Unit Carton | Win chester | Comparative Numbers | | | |
|------------------|------------------------|------------------------------|------------|-------------------|-----------------------|----------------|---------------------|----------|-----------|-------|
| | | | | | | | Burgess | Eveready | Ray-O-Vac | RCA |
| "B" BATTERIES | 1710 - 67-1 2 Volt "B" | 3-11/16" x 2-3/4" x 1-3/8" | 12 | 10-1 2 | 6 | 1710 | XX45 | 467 | 4367 | VS016 |
| | 1712 - 67-1 2 Volt "B" | 2-5 16" x 2-11/16" x 1-5/16" | 24 | 12 | 6 | 1712 | | 457 | | |
| | 1713 - 90 Volt "B" | 3-23 32" x 1-3/8" x 3-11/16" | 6 | 6 | 6 | 1713 | | 490 | | |
| | 6211 - 45 Volt "B" | 3-5 8" x 2-5/8" x 15/16" | 12 | 6-1 2 | 6 | 6211 | XX30 | 455 | | VS055 |
| "A" BATTERIES | 3816 - 4-1/2 Volt "A" | 3-15/16" x 1-5/16" x 4" | 10 | 11 | 10 | 3816 | | 736 | | |
| | 4919 - 6 Volt "A" | 2-11/32" x 1-5/32" x 1-5/32" | 24 | 4-1 2 | 12 | 4919 | | 724 | | |
| | 102 - 1-1 2 Volt "A" | 2-1/4" x 1-1/4" | 480 | 107 | 48 | 1511 | 2 | 950 | 2LP | VS036 |
| | 101 - 1-1 2 Volt "A" | 1-13/16" x 15/16" | 60 | 7 | 12 | 1311 | 1 | 935 | 1LP | VS033 |



| | Catalog Number | Dimensions H x W x D | Std Pkg | Std Pkg Wgt | Dir Unit Carton | Win chester | Comparative Numbers | | | |
|---|---|-------------------------------|------------|-------------------|-----------------------|----------------|---------------------|----------|-----------|-------|
| | | | | | | | Burgess | Eveready | Ray-O-Vac | RCA |
| "B" | 6210 - 45 Volt "B" with new interlocked flat cells | 5-1/2" x 3-1/2" x 1-3/4" | 6 | 11 | 6 | 6210 | M30 | 482 | P7830 | VS013 |
| "A" | 4918 - 4-1/2 Volt "A" correct for 249 Portable Radios | 4-11/16" x 3-7/8" x 1-5/16" | 10 | 13 | 10 | 4918 | G3 | 746 | P83A | VS002 |
| B A T T E R I E S | 4816 - 1-1/2 Volt "A" correct for 224 Portable Radios | 4" x 2-9/16" x 2-9/16" | 10 | 15 | 10 | 4816 | 4F | 742 | P94A | VS004 |
| | 4819 - 1-1/2 Volt "A" correct for 143 Portable Radios | 5-5/16" x 3-11/16" x 2-9/16" | 6 | 18 | 6 | 4819 | 8F | 741 | P98A | |
| | 4815 - 6 Volt "A" correct for 98 Portable Radios | 3-13/16" x 10-13/16" x 1-3/8" | 6 | 20 | 6 | 4815 | 2F4L | 747 | P698L | VS011 |
| | 4814 - 1-1/2 Volt "A" correct for 83 Portable Radios | 4" x 3-13/16" x 2-9/16" | 6 | 13 | 6 | 4814 | 6F | 743 | P96A | VS007 |
| | 4914 - 6 Volt "A" | 4" x 2-9/16" x 2-9/16" | 10 | 15 | 10 | 4914 | F4PI | 744 | P694A | VS009 |
| | 4817 - 6 Volt "A" | 5-9/16" x 3-13/16" x 2-11/16" | 10 | 30 | 10 | 4817 | 2F4 | 718 | P698A | VS010 |
| S | 4813 - 1-1/2 Volt "A" | 3-13/16" x 10-13/16" x 1-3/8" | 6 | 20 | 6 | 4813 | 8FL | 745 | P98L | VS008 |



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BATTERY COMPARATIVE GUIDE CHART

PORTABLE

| BOND OLIN | BOND (old) | BURGESS | EVE-READY | GENERAL | PHILCO | RAY-O-VAC | R.C.A. | SEARS | WARD | WILLARD | ZENITH | WIN-OLIN |
|-----------|------------|---------|-----------|--|---------|-----------|--------|-------|-------|----------|--------|----------|
| 0513 | | | | 60B6L | P60B6L | AB85 | VS021 | 06303 | A59M | 60B6L | | 0513 |
| 0614 | | F6A60 | 753 | 60A6F6 5 | P841A | AB994 | VS019 | | A33 | 60A6F6/5 | P841A | 0614 |
| 0615 | | G6M60 | 754 | 60B6F6 5 | | AB878 | VS018 | | A35M | 60B6F6/5 | | 0615 |
| 0616 | | G6-860 | 752 | Z60B6F6 | P60B6F6 | AB995 | VS047 | 6401 | | WZ-3 | Z985 | 0616 |
| 0616W | | | 752W | | | | | | | | Z985X | 0616W |
| 101 | 101 | 1 | 935 | C | C | 1LP | VS033 | 4659 | A3258 | C | Z1NL | 1311 |
| 102 | 102 | 2 | 950 | D | D | 2LP | VS036 | 4650 | A3259 | D | Z2NL | 1511 |
| 1710 | 1720 | XX45 | 467 | W45A | P67 | 4367 | VS056 | 6480 | A43 | WBM-2 | Z45 | 1710 |
| 1712 | | | 457 | For new Emerson personal portable No. 558, No. 584 | | | | | | | | 1712 |
| 1713 | | | 490 | for new Emerson personal portable No. 559, No. 560 | | | | | | | | 1713 |
| 3816 | | | 736 | For new Emerson personal portable No. 559, No. 560 | | | | | | | | 3816 |
| 4813 | 4823 | 8FL | 745 | BCF1 | | P98L | VS008 | | | | | 4813 |
| 4814 | 4824 | 6F | 743 | 6F1 | | P96A | VS007 | 6431 | | 6F1 | Z96 | 4814 |
| 4815 | 4825 | 2F4L | 747 | BCF4 | | P698L | VS011 | 6452 | | | Z698L | 4815 |
| 4816 | 4826 | 4F | 742 | 4F1 | P94 | P94A | VS004 | 6430 | A21 | 4F1 | Z94 | 4816 |
| 4817 | 4827 | 2F4 | 718 | 8F4 | | P698A | VS010 | 6450 | | WA4-1 | | 4817 |
| 4819 | 4829 | 8F | 741 | 8F1 | P8F1 | P98A | | | | 8F1 | | 4819 |
| 4914 | | F4PI | 744 | 4F4 | | P694A | VS009 | 6451 | A28 | | | 4914 |
| 4918 | 4928 | G-3 | 746 | 3H3 | P100 | P83A | VS002 | 6440 | A24 | WA3-1 | Z83A | 4918 |
| 4919 | | | 724 | For new Emerson personal portable No. 558, No. 584 | | | | | | | | 4919 |
| 6210 | 6220 | M30 | 482 | W30B | P45 | P7830 | VS013 | 6461 | A42 | WBM-1 | Z783 | 6210 |
| 6211 | | XX30 | 455 | W30A | | | VS055 | | | | | 6211 |

FARM AND CONSOLE RECEIVERS

| | | | | | | | | | | | | |
|--------|------|--------|-----|----------|---------|-------|-------|-------|------|----------|------|--------|
| 0511 | | 18G060 | | Z60D12L | | | VS045 | 06309 | | | Z28 | 0511 |
| 0512 | | 3G6D60 | | E60D12L6 | | AB982 | | | A54M | | Z334 | 0512 |
| 0513 | | | | 60B6L | P60B6L | AB85 | VS021 | 06303 | A59M | 60B6L | | 0513 |
| 0518 | 0528 | 17GD60 | 758 | 60DL11L | P60D11L | AB82 | VS022 | 06302 | A57M | 60DL-11L | Z802 | 0518 |
| 3217 | 317 | 5360 | 781 | H3B | | 531R | VS028 | | | H3B | | 3217 |
| 3516 | 312 | 2370PI | 771 | H3D | P3D | P231W | VS030 | 5005 | A83 | H3D | | 3516 |
| 5216 | 1517 | 5156 | 768 | H15B | P15B | P5151 | VS031 | 6390 | A84 | H15B | | 5216 |
| 5216-8 | 1519 | 5156 | 778 | H15BB | | 5151 | VS131 | | | | | 5216-8 |
| 5218 | 517 | 5540 | 773 | V5B | P5B | 551 | VS029 | | | V5B | | 5218 |

Mueller Electric Co.

CLEVELAND, OHIO

MUELLER BATTERY AND TEST CLIPS

U.S. PATENTS: 1,521,903; 1,686,842; 1,779,442; 1,794,976; 1,965,151; 1,994,251; 1,999,613; 2,074,324; 2,136,814; 2,416,113.

For use in making quick, temporary electrical connections. Packed 10 in a box, half marked + half plain to indicate polarity. Screw connections



No. 45 PEE WEE

A very small test clip for radio, ignition, meter and similar work. 1 1/2" long. Jaw spread 3/8". Steel, cadmium plated.

EACH NET.....\$0.07 LOTS OF 10.....\$0.045



No. 45-C Clip No. 47 Insulator

No. 45-C Solid Copper R.F. Test Clip

Solid copper radio frequency test clip. Phosphor bronze spring, brass screw. Will not heat up in high frequency test work, entirely non-ferrous. 1 1/2" long.

EACH NET.....\$0.10 LOTS OF 10.....\$0.07

Use No. 47 Insulator for clips 45 and 45-C.



No. 48-B

A small test and battery clip for radio use and general testing purposes. 2" long. Jaw spread 1/2". Steel, cadmium plated.

EACH NET.....\$0.07 LOTS OF 10.....\$0.05

No. 48C—Solid Copper. Same size as 48-B.
EACH NET.....\$0.12 LOTS OF 10.....\$0.085



No. 82 Needle Clip

Needle pierces insulated wire. Ideal for quick hookup of truck trailer lighting systems, telephone and signal work. Steel, cadmium plated. 2" long.

EACH NET.....\$0.15 LOTS OF 10.....\$0.10

Use No. 49 Insulator for Clips 48-B, 48-C and 82.



No. 22 Twin-Clip

Jaws on both ends. Great time-saver in test work. Used to hold or rack articles for display or processing. 2" long. Steel cadmium plated.

EACH NET.....\$0.10 LOTS OF 10.....\$0.07



No. 27

A high grade test clip with meshing teeth on three sides of jaws. For laboratory and shop test work 2 1/8" long. Jaw spread 5/8". Steel, cadmium plated.

EACH NET.....\$0.10 LOTS OF 10.....\$0.07

No. 27-C—Solid copper. Same size as No. 27.
EACH NET.....\$0.18 LOTS OF 10.....\$0.125

Use No. 29 Insulator for clips 27 and 27-C.



No. 24-A

A medium sized battery clip. Stands erect on battery post. Lead coated, copper shunt protects spring. 2 5/8" long. Jaw spread 1". Steel, lead plated.

EACH NET.....\$0.14 LOTS OF 10.....\$0.095

No. 24—Solid copper. Same size as No. 24-A.
EACH NET.....\$0.25 LOTS OF 10.....\$0.18

Use No. 26 Insulator for Clips 24-A and 24.

LARGER SIZES OF CLIPS

| | Each Net | Lots of 10 |
|---|----------|------------|
| No. 21-A—Heavy Duty Steel, lead plated, 4" long | \$0.21 | \$0.15 |
| No. 21—100 Amp. Solid Copper, 4 1/2" long | .61 | .43 |
| No. 11A—100 Amp. Steel, lead plated, 6" long | .75 | .53 |
| No. 11—200 Amp. Solid copper, 6" long | 1.17 | .82 |
| No. 33—300 Amp. Solid copper, 7 3/4" long | 2.00 | 1.40 |

(Above furnished with lug connections.)

FLEXIBLE INSULATORS FOR CLIPS



A convenient protection against short circuit and electric shock. Packed 10 in a box, 5 red and 5 black to indicate polarity. Long tail prevents breakage of wire. Constructed so that clip is held in firmly.

CROCODILE CLIPS

U.S. Patent No. 1,999,613



No. 85 or 85-C Clip with No. 87 Insulator

No. 85—A very small clip with slender, elongated jaws for getting into tight places in radio or electrical test work. Screw connection. 2 1/8" long.

EACH NET.....\$0.08 LOTS OF 10.....\$0.05

No. 85-C—Same as No. 85, except solid copper. A radio frequency, entirely non-ferrous test clip.

EACH NET.....\$0.11 LOTS OF 10.....\$0.08

No. 85-T—New Crocodile "Tip-Clip"—equipped with standard phone tip on one jaw, otherwise same as No. 85. Ideal for use as a prod, for ordinary clip connections and for connections to insulated binding posts having non-removable heads. 2 5/8" long.

EACH NET.....\$0.16 LOTS OF 10.....\$0.11

Use No. 87 Insulators for clips 85, 85-C and 85-T. Red and Black. Cover entire clip except nose. Protects against short and shock. Helps to distinguish leads.



No. 85-T Clip

ALLIGATOR CLIPS

No. 60—CONVENTIONAL TYPE

Accurately made, slim jaws, fine meshing teeth. Convenient, round thumb grip, barrel connection for banana plug. Equipped with small soldering lip. Strong spring with a hard bite. Cadmium plated. 2" long.

EACH NET.....\$0.07 LOTS OF 10.....\$0.045



No. 60-S—SCREW CONNECTION

Eliminates necessity for soldering. Otherwise same as No. 60.

EACH NET \$0.08 LOTS OF 10 \$0.05



No. 60-CS—COPPER R.F. ALLIGATOR CLIP

Same as No. 60-S except made of solid copper. Has brass screw connection. Ideal for R.F. work. Will not heat up in H.F. circuits. Bright, natural copper finish. 2" long.

EACH NET.....\$0.11 LOTS OF 10.....\$0.08



No. 60-HS—STEEL ALLIGATOR CLIP WITH INSULATED HANDLE

Same as No. 60-S except equipped with red and black insulating sleeves on end. Very convenient for distinguishing leads. Has screw connection also. Cadmium plated. 2 1/4" long.

EACH NET.....\$0.11 LOTS OF 10.....\$0.08



No. 60-CHS—COPPER ALLIGATOR CLIP WITH INSULATED HANDLE

Same as No. 60-CS except equipped with red and black insulating sleeves on end. Brass screw connection, for R.F. work. 2 1/4" long.

EACH NET.....\$0.15 LOTS OF 10.....\$0.10



WEE-PEE-WEE No. 88

Entirely Non-ferrous. Smaller Than Ever!

An extremely small clip for fine testing in radio and electrical work. Light-Weight; thin-nosed; spring-temper phosphor bronze. Ideal for close-wound coils. 1 1/8" long; jaw spread 1/4".

EACH NET.....\$0.16 LOTS OF 10.....\$0.11

Use No. 93-P R.F. Insulator.

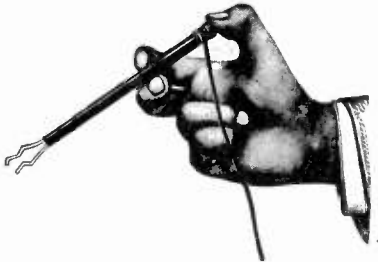


| Insulator No. | For Use with Clip No. | Each Net | Lots of 10 |
|---------------|-----------------------|----------|------------|
| 13 | 11, 11-A | \$0.54 | \$0.38 |
| 23 | 21, 21-A | .33 | .23 |
| 26 | 24, 24-A | .23 | .16 |
| 29 | 27, 27-C | .17 | .12 |
| 35 | 33 | 1.42 | 1.00 |
| 47 | 45, 45-C | .11 | .075 |
| 49 | 48-B, 48-C, 82 | .11 | .075 |
| 87 | 85, 85-C, 85-T | .10 | .066 |
| 93-P | 88 | .05 | .035 |

Mueller Electric Co.

THE SNAPPER

A Long Insulated Test Clip and
A "Triple Thread" Radio Tool



U. S. Patent No. 2,074,324

No. 99—7" Long Insulated

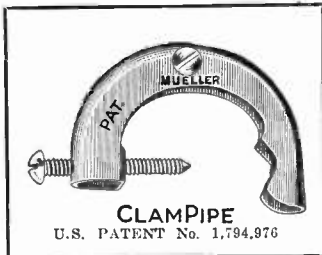
The long tube is of insulating material and is fitted with spring contact jaws on the far end.

The jaws are operated by a push of the thumb on the near end. Wire is quickly and easily connected in a hole in the insulator knob binding post on the near end.

May be used as (1) A "Deep Sea" Electric Test Clip—test contacts with ease, deep in the recesses of radio chassis with no danger of short circuits; (2) An Electric Contact Prod—clip jaws may be used to make quick prod contacts, or clip one Snapper on ground circuit and prod with another; (3) A Retriever—start small screws and nuts or pick up odds and ends that may accidentally be dropped into inaccessible places.

PRICE...\$0.90 EACH Dealers' Wholesale Price, each...\$0.54 Net
Snappers are generally used in pairs—1 red and 1 black.

CLAMPIPE GROUND CLAMP



No. 58

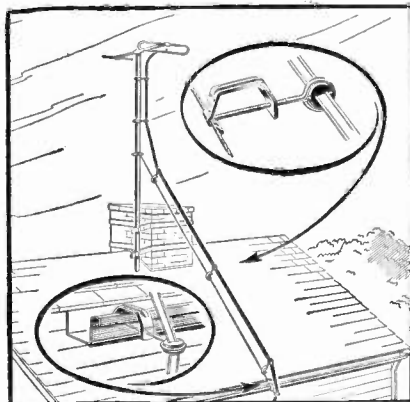
The best ground clamp value on the market. Applicable to pipe $\frac{3}{8}$ " to 1 $\frac{3}{8}$ " outside diameter.

Packed 10 in a box

EACH NET.....\$0.13 LOTS OF 10.....\$0.09

The exclusive patented feature of a U-shaped cross section in combination with a U-shaped clamp gives a rigidity and effectiveness to the ClamPipe that cannot be found in any other make.

The ClamPipe will not bend or lop over when applied to a pipe. The point of the large case hardened screw, cuts through rust, paint or corrosion into clean, fresh metal, insuring a good contact. The Clamp may be installed on a pipe lying flush against a wall. Will not spread open.



HAS THESE USEFUL FEATURES —

- One standard size solves many lead-in problems — far more useful than straps or wire bands.
- Brings lead-in to edge of roof — right where you want it — no more "draping" of wire across the roof.
- On those high jobs, come right down a guy-wire — and get around the gutter in the clear.

LOW PRICES!

All packed 100 in a carton

No. 135 For all types of Flat Twin-Lead.
No. 136 For Coax Cables up to $\frac{1}{2}$ " O.D.
EACH NET, \$0.13 LOTS OF 10, \$0.09
LOTS OF 100, \$0.078

Also in these Double Lead-in Types:
No. 135-DB For Flat Twin-Lead.
No. 136-DB For Coax Cables up to $\frac{1}{2}$ " O.D.
EACH NET, \$0.25 LOTS OF 10, \$0.18
LOTS OF 100, \$0.15

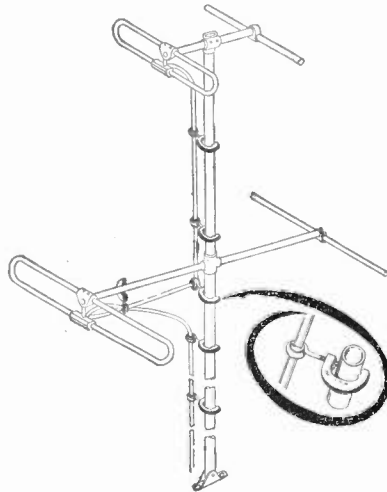
THE "TENNA-CLAMPIPE"

(ClamPipe Trade-mark Reg. U. S. & Can. Pat. Off.)

A Standoff Insulator that clamps on Quickly—Easily—almost anywhere for Television and FM Antenna Lead-Ins.

Quickly and Permanently Supports Lead-Ins

- On antenna masts & cross-arms.
- On pipes, I-beams, etc., on basement ceilings.
- On any rigid object up to 1 $\frac{3}{8}$ " in diameter or thickness.



SIMPLY TURN THE SCREW-EYE BY HAND FOR A SOLID, PERMANENT GRIP.

A great time-saver—the installation man's third hand.

Consists of an assembly of the famous Mueller ClamPipe Ground Clamp and a steel screw-eye with an insulating grommet. Holds lead-in wire from 1 $\frac{1}{4}$ " to 2 $\frac{1}{2}$ " away from clamp. Can be applied to any antenna mast, pipe or other object up to 1 $\frac{3}{8}$ " in diameter or thickness.

All metal parts are completely weatherproofed.

Insulating grommet is molded of high quality plastic having superior dielectric and non-absorptive properties. Will withstand exposure to weather.

No. 130 for all types of Flat Twin-lead.

No. 131 for all Coax Cables up to $\frac{1}{2}$ " O.D.

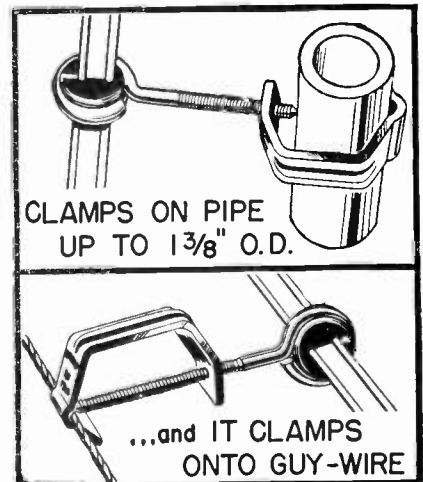
Packed 100 in a carton

EACH NET.....\$0.16 LOTS OF 10.....\$0.11
LOTS OF 100.....\$0.098

THE "TENNA-CLAMP"

A New 3-in-1 Stand-off Insulator Clamp!
Supports TV and FM Lead-ins on
MASTS, PIPES, GUTTERS AND GUY-WIRES

Has same general features and specifications as Tenna-ClamPipe described above except different type clamp channelled on end to take standard guy-wire in addition to pipes.



CLAMPS ON PIPE
UP TO 1 $\frac{3}{8}$ " O.D.

...and IT CLAMPS
ONTO GUY-WIRE

MALLORY VIBRATORS • VIBRAPACKS* • RECTIFIERS • BATTERY CHARGERS
SPECIAL COMPONENTS AND MISCELLANEOUS ITEMS *Reg. U.S. Pat. Off.

★ Complete descriptions of these parts will be found on the following pages.

| Mallory Cat. No. | List Price |
|-----------------------|------------|
| <i>Mallory Page 2</i> | |
| VIBRATOR DEAL | |
| 2448 | \$43.70 |
| <i>Mallory Page 3</i> | |
| VIBRATORS | |
| 222 | \$8.30 |
| 245 | 7.00 |
| 245A | 7.00 |
| 245C | 7.00 |
| W245A | 7.00 |
| 246 | 7.00 |
| 246A | 7.00 |
| 247 | 7.00 |
| F247 | 7.75 |
| 248 | 7.00 |
| 249 | 7.00 |
| 270B | 8.30 |
| 271HD | 8.30 |
| 273C | 8.30 |
| 273D | 8.30 |
| 292 | 5.75 |
| 294 | 4.45 |
| F294 | 6.50 |
| 298 | 5.75 |
| F502F | 8.30 |
| 505P | 4.45 |
| 506P | 5.75 |
| 509P | 3.75 |
| 514 | 7.00 |
| 716 | 7.00 |
| 725C | 7.75 |
| G725C | 9.05 |
| 742 | 7.00 |
| 743 | 7.00 |
| 748 | 7.00 |
| G749C | 9.05 |
| 825C | 6.25 |
| 826C | 5.75 |
| F826C | 7.00 |
| G826C | 7.00 |
| 839 | 5.75 |
| 852 | 4.45 |
| 853 | 4.45 |
| 854 | 4.45 |
| 859 | 4.45 |
| 860 | 4.45 |
| 870 | 4.45 |
| 903M | 3.75 |
| 952W | 7.00 |
| 953W | 7.00 |
| 954 | 7.00 |
| 1100 | 4.45 |

| Mallory Cat. No. | List Price |
|---|------------|
| <i>Mallory Page 3</i> | |
| 1501 | \$5.75 |
| 1502 | 6.25 |
| T4002 | 9.70 |
| T4003 | 8.90 |
| GC7 | .40 |
| AR-1 Adapter | 1.35 |
| <i>Mallory Page 5</i> | |
| VIBRAPACK* | |
| POWER SUPPLIES | |
| *Reg. U.S. Pat. Off. | |
| VF-223 | \$ 8.00 |
| VP-540 | 30.00 |
| VP-551 | 22.00 |
| VP-552 | 26.25 |
| VP-553 | 24.50 |
| VP-554H | 28.75 |
| VP-555H | 52.00 |
| VP-557 | 52.00 |
| VP-G556 | 28.75 |
| VP-F558 | 31.25 |
| <i>Mallory Page 6</i> | |
| BATTERY CHARGERS AND ACCESSORIES | |
| 6AC4 | \$14.95 |
| 6AC6 | 19.95 |
| 6AC10 | 27.95 |
| 12AC5 | 35.95 |
| R-652 | 1.80 |
| R-653 | .25 |
| R655 | 1.80 |
| MMF12 | 9.50 |
| <i>Mallory Page 7</i> | |
| 6AC60 | \$84.50 |
| R-654 | 7.50 |
| <i>Mallory Page 8</i> | |
| RECTIFIERS | |
| IB4R | \$2.05 |
| IB8R | 2.45 |
| IB12R | 2.80 |
| IB12C1J | 5.45 |
| IB12C3 | 5.90 |
| F16C3 | 7.65 |
| IF16CB7M | 8.50 |
| IS16CB7 | 8.10 |
| IS16B7 | 10.10 |
| IS16B9 | 11.10 |

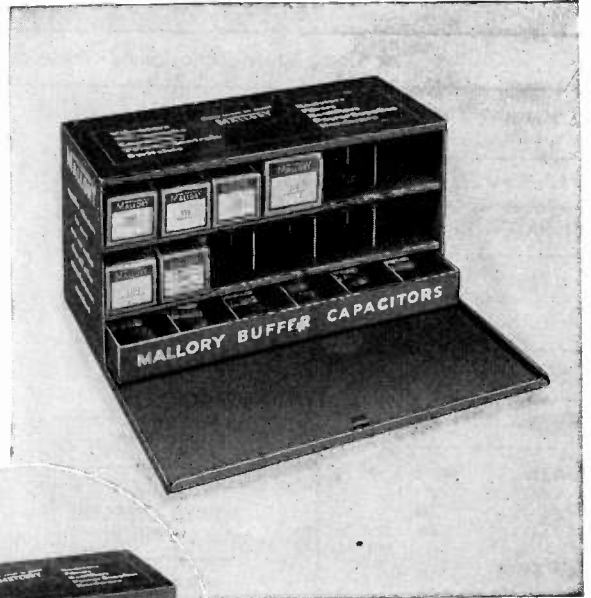
| Mallory Cat. No. | List Price |
|---------------------------------|---------------|
| <i>Mallory Page 8</i> | |
| F20C7 | \$10.10 |
| IS24C7J | 10.05 |
| IS24B9 | 15.55 |
| IS28C7J | 11.85 |
| F16H1P | 5.85 |
| F20H1P | 7.20 |
| F24H1P | 8.55 |
| F28H1PM | 9.90 |
| F32H1PM | 11.25 |
| <i>Mallory Page 9</i> | |
| MALLORY INDUCTUNER* | |
| *Reg. Trade Mark | |
| 8301 | \$27.50 |
| VIDEOCOUPLER | |
| VC-101 | \$1.75 |
| YARD-OHM Resistance Kits | |
| YO-1 | \$0.75 |
| YO-5 | .75 |
| YO-10 | .75 |
| YO-25 | .75 |
| YO-50 | .75 |
| YO-100 | .75 |
| YO-250 | .75 |
| YO-500 | .75 |
| GRID BIAS CELLS | |
| BC-2 | \$0.45 each |
| GB11A | .15 each |
| GB11B | .20 each |
| GB12 | .25 each |
| GB13 | .35 each |
| GB14 | .40 each |
| GB15 | .15 each |
| GB16 | .15 each |
| <i>Mallory Page 10</i> | |
| KNOBS | |
| 365-1 | \$0.25 |
| 365-R-1 | .25 |
| 366-1 | .20 |
| 366-R-1 | .20 |
| 367-1 | .25 |
| 368-1 | .20 |
| MOUNTING NUTS | |
| 232 | \$0.15 per 10 |
| 255 | .20 each |
| A-11260-2 | .30 each |
| A-11260-12 | .25 each |

| Mallory Cat. No. | List Price |
|----------------------------|---------------|
| <i>Mallory Page 10</i> | |
| WASHERS | |
| 203 | \$0.30 per 10 |
| 212 | .20 per 10 |
| 225 | .20 per 10 |
| 226 | .20 per 10 |
| 227 | .20 per 10 |
| SOLDERING IRON TIPS | |
| 311 | \$0.70 |
| 312 | .80 |
| DIAL PLATES | |
| 453 | \$0.20 |
| 454 | .20 |
| 455 | .20 |
| 456 | .20 |
| 457 | .20 |
| 458 | .20 |
| 459 | .20 |
| 460 | .20 |
| 461 | .20 |
| 462 | .20 |
| 463 | .20 |
| 464 | .20 |
| 465 | .20 |
| 466 | .20 |
| 467 | .20 |
| 468 | .20 |
| 472 | .20 |
| 473 | .20 |
| 474 | .20 |
| 475 | .20 |
| 476 | .20 |
| 477 | .20 |
| 478 | .20 |
| 479 | .20 |
| 480 | .20 |
| 481 | .20 |
| 482 | .20 |
| 483 | .20 |
| 484 | .20 |
| 485 | .20 |
| 486 | .20 |
| 487 | .20 |
| 488 | .20 |
| 372 | .20 |
| 373 | .20 |
| 374 | .20 |
| 375 | .20 |
| 376 | .20 |
| 377 | .20 |
| 378 | .20 |
| 379 | .20 |
| 380 | .20 |
| 381 | .20 |
| 382 | .20 |
| 383 | .20 |
| 384 | .20 |
| 385 | .20 |
| 386 | .20 |
| 387 | .20 |
| 388 | .20 |
| 389 | .20 |
| 390 | .20 |
| 394 Special | .20 |

THE MALLORY 2448 VIBRATOR DEAL

Here's What You Get:

- ① Six popular Mallory vibrators
- ② Twelve Mallory buffer capacitors
- ③ Services 75% of your replacement needs
- ④ Simplifies your inventory control
- ⑤ Extra space for flexible inventory
- ⑥ Cabinets firmly "stack" together; use as many as you need to handle your stock



**You Get the Cabinet
at no Additional Cost...
When You Purchase
the Vibrators at
Your Regular Discount**



Picture at right shows how your vibrator cabinet nests with any Mallory Control Deal cabinet. Your vibrator cabinets nest together, too, to handle your complete stock of vibrators. The Mallory Radio Service Encyclopedia is purchased separately.

APPLICATION—The Mallory 2448 Vibrator Deal cabinet assures more speed in vibrator replacement work . . . gives you the advantage of work-bench accessibility . . . simplifies your inventory problems . . . gives you wide coverage with a minimum selection of Mallory vibrators.

GENERAL DESCRIPTION—Consists of 6 of the most popular type Mallory vibrators. Cabinet contains 12 individual compartments, enabling you to make 6 additional selections. A large drawer is divided into 6 sections to hold a large stock of Mallory buffer capacitors. Twelve capacitors come with the 2448 Deal. Cabinet constructed of 28-gauge sheet steel, neatly finished in blue with white lettering and orange trim.

USE IN INVENTORY CONTROL—With the Mallory 2448 Vibrator Deal cabinet in your shop, inven-

tory control is simplified. You keep similar type vibrators together. You determine at a glance which vibrators you need to re-order. This assures an adequate, up-to-date supply of Mallory vibrators you need.

CONTENTS—(Complete descriptive information on each of the following vibrators and buffer capacitors may be found on the following page and in the Mallory Capacitor Section page 9, respectively.)

Mallory Vibrators, 1 each:

248, 716, 859, 870, 1100, 1501

Mallory Buffer Capacitors, 2 each:

OT-371, OT-372, OT-373, OW-344, OW-345, OW-346

PRICE—When you purchase the vibrators and buffer capacitors included in the Mallory 2448 Vibrator Deal, at your regular discount, you get the cabinet at no additional cost!

You'll Use Your MALLORY 2448 VIBRATOR DEAL in all These Radio Sets

| | | | | | | |
|--------------|----------|------------------|-----------------|------------|---------------|----------------|
| Admiral | Chrysler | Emerson | Grunow | Motorola | Pontiac | Stewart-Warner |
| Arvin | Clarion | Firestone | Howard | Nash | RCA | Studebaker |
| Atwater-Kent | Crosley | Ford | Hudson | Oldsmobile | Sears-Roebuck | Truetone |
| Belmont | Delco | Gamble-Skogmo | Kaiser-Frazer | Packard | Sentinel | Wells-Gardner |
| Buick | De Soto | General Electric | Lincoln | Motor Car | Sonora | Westinghouse |
| Cadillac | Detroit | Goodrich | Montgomery-Ward | Philco | Spartan | Willys |
| Chevrolet | Dodge | Goodyear | | Plymouth | Spiegel | Zenith |

MALLORY VIBRATORS



| Type No. | Volt | Type | Base Dia. | Can Type | Size |
|----------|------|------------|-----------|----------|-------------------------|
| 222 | 6 | Syn. | 20 | 2 | 4 7/8 x 1 7/8 x 1 13/16 |
| ▲245 | 6 | Syn. | 21 | 1 | 1 1/2 x 3 3/4 |
| ▲245A | 6 | Syn. | 21 | 1 | 1 13/16 x 3 1/2 |
| 245C | 6 | Syn. | 28 | 1 | 1 1/2 x 3 1/4 |
| ▲W245A | 4 | Syn. | 21 | 1 | 1 13/16 x 3 1/2 |
| ▲246 | 6 | Syn. | 38 | 1 | 1 1/2 x 3 3/4 |
| ▲246A | 6 | Syn. | 38 | 1 | 1 13/16 x 3 1/2 |
| 247 | 6 | Syn. | 46 | 1 | 1 1/2 x 3 3/4 |
| F247 | 32 | Syn. | 46 | 1 | 1 1/2 x 3 3/4 |
| ▲248 | 6 | Syn. | 44 | 1 | 1 1/2 x 3 3/4 |
| ▲249 | 6 | Syn. | 32 | 1 | 1 1/2 x 3 3/4 |
| 270B | 6 | Syn. | 23 | 1 | 2 x 4 1/2 |
| 271HD | 6 | Syn. | 24 | 1 | 2 x 4 1/2 |
| 273C | 6 | Syn. | 29 | 1 | 2 x 4 1/2 |
| 273D | 6 | Syn. | 31 | 1 | 2 x 4 1/2 |
| 292 | 6 | Int. | 3 | 2 | 1 1/2 x 1 3/8 x 2 7/16 |
| 294 | 6 | Int. | 8 | 1 | 1 1/2 x 3 3/4 |
| ▲F294 | 32 | Int. | 8 | 1 | 1 1/2 x 3 3/4 |
| 298 | 6 | Int. | 51 | 1 | 1 1/2 x 2 7/8 |
| F502P | 32 | Int. | 9 | 5 | 1 5/8 x 3 3/8 |
| 505P | 6 | Int. | 8 | 1 | 1 13/16 x 3 1/2 |
| 506P | 6 | Int. | 36 | 1 | 1 13/16 x 3 1/2 |
| 509P | 6 | Int. | 8 | 1 | 1 1/2 x 2 3/8 |
| 514 | 6 | Syn. | 30 | 6 | 1 13/16 x 3 1/2 |
| 716 | 6 | Syn. | 30 | 7 | 1 13/16 x 3 1/2 |
| ▲725C | 6 | Syn. | 32 | 1 | 1 1/2 x 3 3/4 |
| ▲G725C | 12 | Syn. | 32 | 1 | 1 1/2 x 3 3/4 |
| 742 | 6 | Syn. | 32 | 1 | 1 1/2 x 2 7/8 |
| 743 | 6 | Syn. | 38 | 1 | 1 1/4 x 3 3/4 |
| 748 | 6 | Syn. | 44 | 1 | 1 1/2 x 2 7/8 |
| ▲G749C | 12 | Syn. | 21 | 1 | 1 1/2 x 3 3/4 |
| ▲825C | 6 | Int. | 8 | 1 | 1 1/2 x 3 3/4 |
| ▲826C | 6 | Int. | 8 | 1 | 1 1/2 x 3 3/4 |
| ▲F826C | 32 | Int. | 8 | 1 | 1 1/2 x 3 3/4 |
| ▲G826C | 12 | Int. | 8 | 1 | 1 1/2 x 3 3/4 |
| 839 | 6 | Int. | 8 | 1 | 1 1/2 x 3 3/4 |
| 852 | 6 | Int. | 14 | 3 | 1 5/8 x 3 3/8 |
| 853 | 6 | Int. | 10 | 3 | 1 5/8 x 3 3/8 |
| 854 | 6 | Int. | 11 | 1 | 1 1/2 x 3 3/4 |
| ▲859 | 6 | Int. | 8 | 1 | 1 1/2 x 2 7/8 |
| 860 | 6 | Int. | 14 | 7 | 1 1/2 x 3 3/4 |
| 870 | 6 | Int. | 14 | 1 | 1 1/2 x 3 |
| 903M | 6 | Int. | 8 | 1 | 1 1/2 x 2 7/8 |
| 952W | 6 | Syn. | 16 | 1 | 1 3/8 x 2 3/8 |
| 953W | 6 | Syn. | 16 | 1 | 1 1/2 x 3 3/16 |
| 954 | 6 | Syn. | 39 | 1 | 1 1/2 x 3 3/16 |
| ▲1100 | 6 | Int. | 8 | 1 | 1 13/16 x 2 3/8 |
| ▲1501 | 6 | Int. | 53 | 1 | 1 1/2 x 2 7/8 |
| 1502 | 6 | Int. | 54 | 1 | 1 1/2 x 2 7/8 |
| T4002 | 2 | Syn. | 52 | 8 | 1 1/2 x 1 1/2 x 2 1/8 |
| T4003 | 2 | Syn. | 50 | 1 | 1 13/16 x 2 1/8 |
| †GC7 | | Ground Cup | | | |
| AR-1 | | Adapter | | | |

Recommended Substitutions for Discontinued Vibrators

| Discontinued Type | Recommended Replacement | Discontinued Type | Recommended Replacement |
|-------------------|-------------------------|-------------------|-------------------------|
| 220B | See Note 2 | F297 | F294 (See Note 3) |
| F220C | See Note 2 | 299 | 298 |
| 221 | 292 | 500P | 853 |
| 223 | 222 (See Note 1) | 501P | 853 |
| F223 | See Note 2 | 503 | 292 |
| 224 | 222 (See Note 1) | 504 | 246 (See Note 1) |
| 226 | 222 (See Note 1) | 507P | 853 |
| 245SW | 245 | 508P | 859 |
| G245 | G749C | 509P | 859 |
| G249 | G725C | 510P | 859 |
| F251 | F294 | 722A | 246 (See Note 1) |
| G253 | G826C | 728A | 246 (See Note 1) |
| 253Y | 294 | 850 | 859 |
| 271 | 270B | G850 | G826C |
| 277S | 248 (See Note 1) | 866 | 859 |
| P285Y | 246 (See Note 1) | 868 | 870 |
| 286S | 248 | 869 | 859 |
| 289Y | 249 | 901M | 294 |
| 294C | 852 | 902M | 859 |
| 294SW | 854 | 903M | 859 |
| 296 | 298 | 951P | 246 |
| 297 | 298 | T4000 | T4003 |

NOTE 1. To make this substitution certain wiring changes are necessary. See instruction sheet packed with vibrator or installation note in the Mallory Vibrator Guide and the 6th Edition Mallory Radio Service Encyclopedia.

NOTE 2. An exact duplicate is no longer available. Every effort is being exerted to determine a satisfactory substitute. If a substitute can be made available, your Mallory Distributor will be advised.

NOTE 3. To make this substitution the six-prong socket must be changed to a 4-prong UX base socket and wired to match base diagram 8.

Int.—Interrupter Syn.—Synchronous

*Hermetically Sealed Construction.

†A grounding cup for 1 1/2" dia. vibrators which makes a low r.f. ground connection between vibrator can and power supply chassis.

‡To be discontinued when supplies are exhausted.

‡No ground strap.

*Use only these types in design of new equipment. Other types are for replacement purposes only.

MALLORY TECHNICAL MANUAL

● This simply written, practical book bridges the gap between radio theory and practice. Designed for the radio serviceman, engineer, amateur or experimenter who wants the latest technical information . . . presented so that he can easily apply it to everyday problems.

Contains page after page of information profusely illustrated. It's worth far more than its price.

MALLORY VIBRATORS

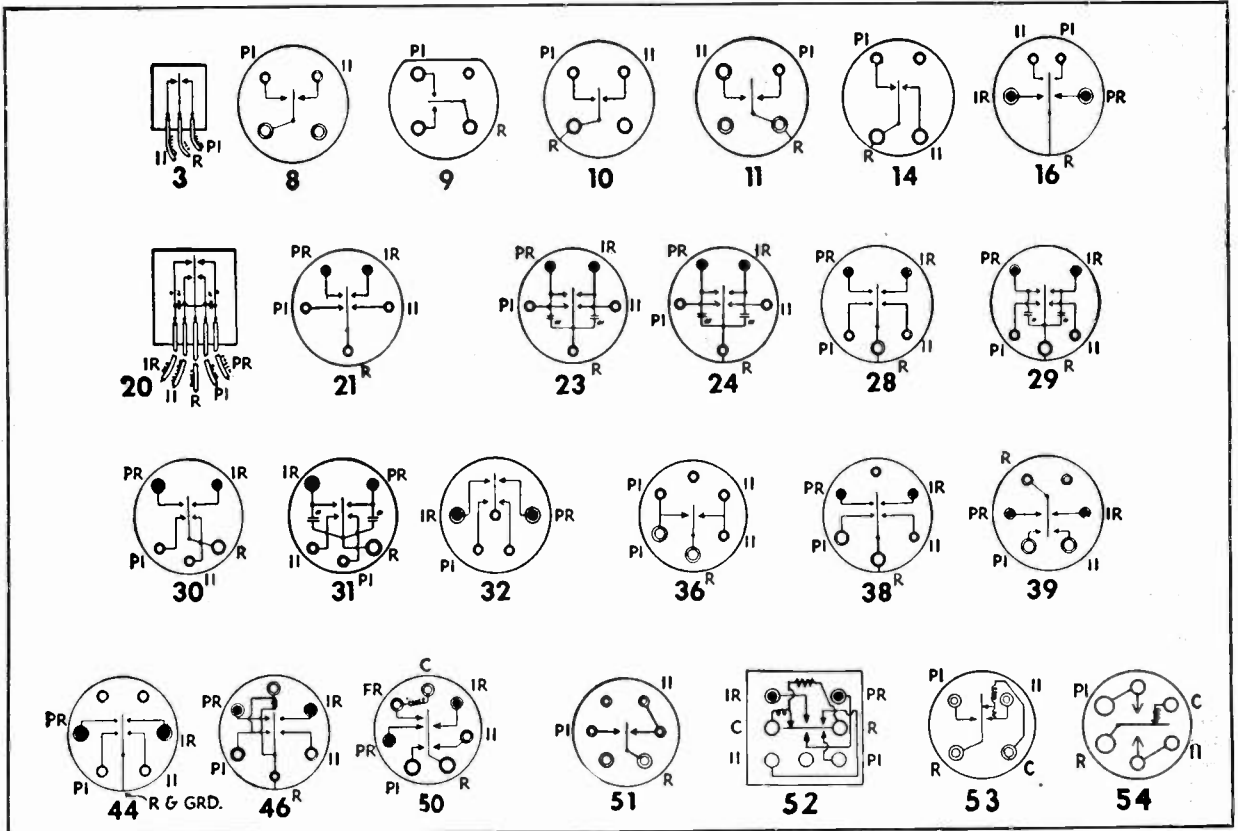
These Mallory Vibrators Meet 90% of Your Replacement Needs

● The 12 basic vibrator types listed at right cover 90% of your replacement needs. The entire line of Mallory Vibrators has been simplified so that replacements can be made easily and quickly. By effecting substitutions, Mallory is materially reducing the number of vibrators needed to meet your requirements.

This Mallory standardization program means that your distributor stocks fewer vibrator types and more units of each—thus delivery is tremendously speeded up.

The vibrator replacement problem is being simplified but Mallory quality remains the same. Mallory precision vibrators, backed by years of outstanding performance, still offer the dependability, the long life and the trouble-free service that you and your customers expect. It pays to insist on Mallory Approved Precision Products.

| Type No. | Volt | Type | Base Dia. | Size |
|----------|------|------|-----------|---------|
| 245 | 6 | Syn. | 21 | 1½ x 3¼ |
| 246 | 6 | Syn. | 38 | 1½ x 3¼ |
| 248 | 6 | Syn. | 44 | 1½ x 3¼ |
| 249 | 6 | Syn. | 32 | 1½ x 3¼ |
| 273C | 6 | Syn. | 29 | 2 x 4½ |
| 294 | 6 | Int. | 8 | 1½ x 3¼ |
| 716 | 6 | Syn. | 30 | 1½ x 3½ |
| 852 | 6 | Int. | 14 | 1½ x 3½ |
| 854 | 6 | Int. | 11 | 1½ x 3¼ |
| 859 | 6 | Int. | 8 | 1½ x 2½ |
| 870 | 6 | Int. | 14 | 1½ x 3 |
| 1100 | 6 | Int. | 8 | 1½ x 2¾ |

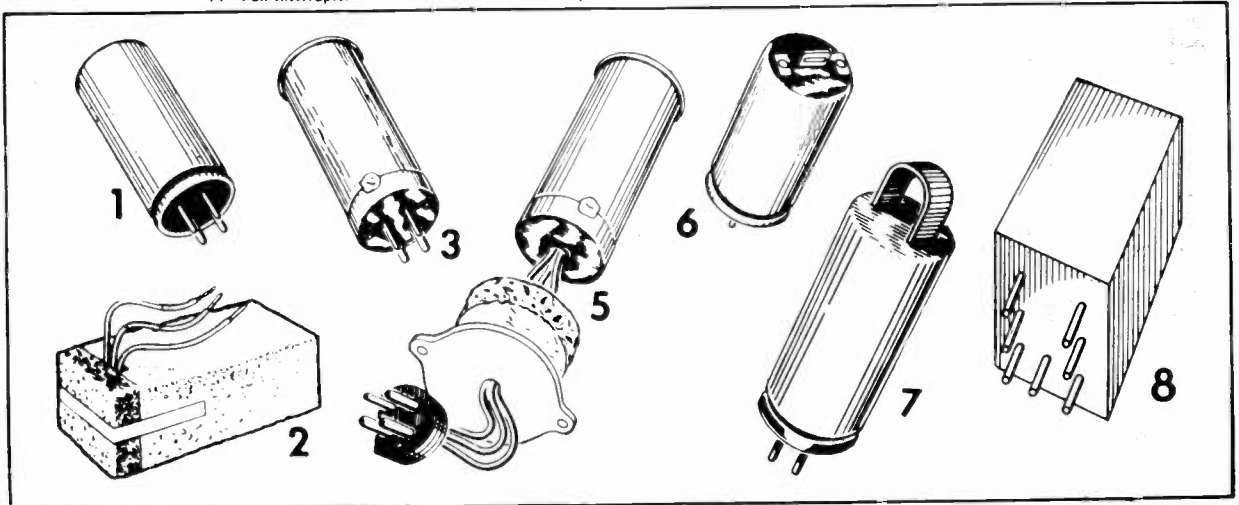


R=Reed
PI=Pull Interrupter

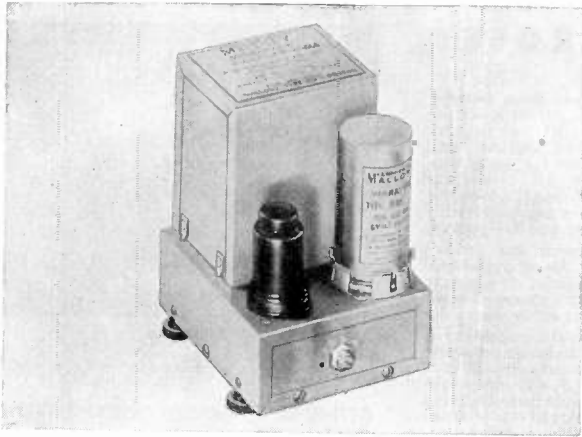
PR=Pull Rectifier
II=Inertia Interrupter

IR=Inertia Rectifier
C=Coil

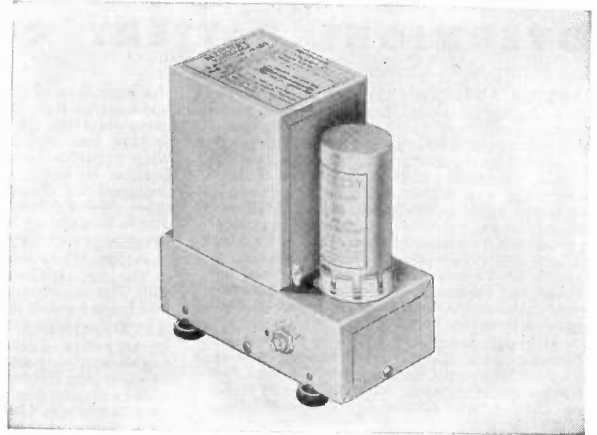
FR=Frame



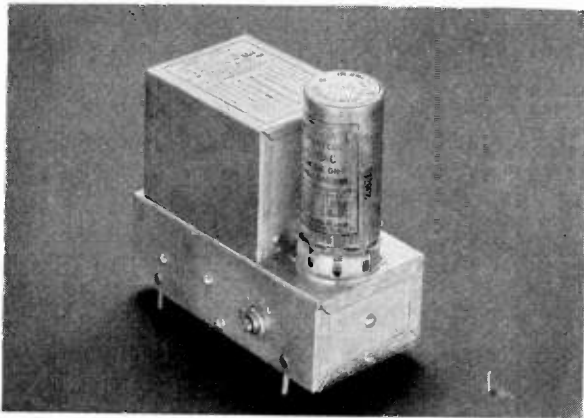
MALLORY VIBRAPACK* POWER SUPPLIES



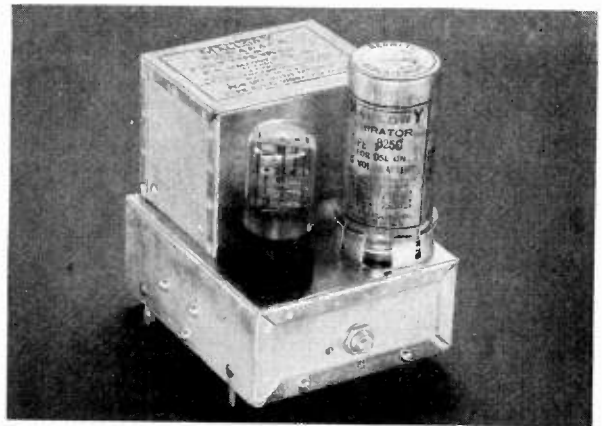
Type VP-554H • VP-F558



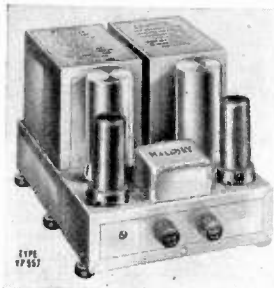
Type VP-552 • VP-G556



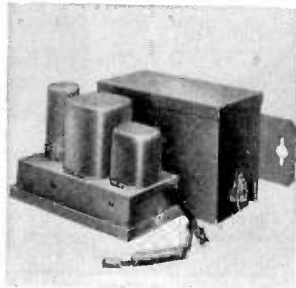
Type VP-551



Type VP-553



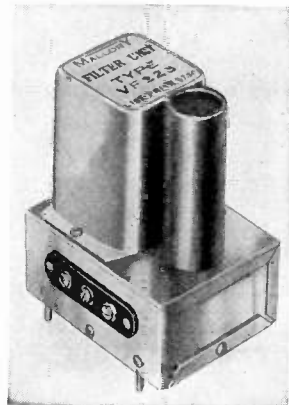
Type VP-555H • VP-557



Type VP-540

Type VF-223 Audio Filter

● A complete audio filter system for use with all single-unit Vibrapacks. Designed to give maximum suppression of hum with minimum voltage drop. Especially recommended for applications which are sensitive to hum, or where voltage regulation is important as in Class "B" audio amplifiers.



NOISE SUPPRESSION

● Vibrapacks are equipped with built-in noise suppression equipment. Type VP-555 also includes an efficient low-frequency hum filter. Type VP-557 incorporates the first input filter condenser only. Other Vibrapacks do not include the high-voltage hum filter. High-voltage filter requirements are similar to equivalent AC power packs.

| Catalog Number | Nominal Operating Voltage | Nominal Output Voltage | Maximum Output Current | Type |
|----------------|---------------------------|------------------------|------------------------|-----------------|
| VP-540* | 6.3 | 250 | 60 ma. | Self-Rectifying |
| VP-551 | 6.3 | 125-150 175-200 | 100 ma. | Self-Rectifying |
| VP-552† | 6.3 | 225-250 275-300 | 100 ma. | Self-Rectifying |
| VP-553 | 6.3 | 125-150 175-200 | 100 ma. | Tube Rectifier |
| VP-554H† | 6.3 | 225-250 275-300 | 100 ma. | Tube Rectifier |
| VP-555H† | 6.3 | 300 | 200 ma. | Tube Rectifier |
| VP-557† | 6.3 | 400 | 150 ma. | Tube Rectifier |
| VP-G556 | 12.6 | 225-250 275-300 | 100 ma. | Self-Rectifying |
| VP-F558 | 32. | 225-250 275-300 | 100 ma. | Tube-Rectifier |

*Includes complete audio filter.

†Maximum ratings are for mobile transmitter service. For continuous duty with radio receivers where longer vibrator life is essential, reduce maximum output watts ratings to 75% of listed values.

MALLORY BATTERY CHARGERS

OVERNIGHT BATTERY CHARGERS

APPLICATIONS—Mallory Automotive and Marine Battery Chargers provide convenient, efficient and economical charging of any storage battery used in automobiles, buses, trucks, tractors, taxicabs, small boats, airplanes, and on the farm. Taper charging (an automatically decreasing charging rate) is designed into all Mallory chargers to prevent damage to battery plates and to insure maximum battery life. These chargers also are ideal for charging any 6 or 12-volt storage battery used in industrial applications, engineering and research laboratories, test equipment, and service benches, etc.

Although designed principally for storage battery charging, Mallory Automotive and Marine Battery Chargers may be used for numerous other applications. They provide an ideal power source for electroplating, model and toy trains, telegraph systems, relays and solenoids, vending machines, electric organs, generator fields, etc. In conjunction with an adequate filter they may be used as a power source for farm and portable radio filaments, auto radio receivers, telephone systems, loud speaker fields, exciter lamps, scientific apparatus, etc.

DESCRIPTION—The heart of these chargers is the Mallory Magnesium-Copper Sulfide all-metal rectifier. Unaffected by temperature and able to withstand phenomenal abuse, they provide stable output without adjustment over long life. With an exclusive self-healing feature, Mallory rectifiers have been time-tested and proved to be the most rugged dependable rectifier for battery-charging applications.

Mallory Automotive and Marine Battery Chargers are made in five models to cover

the complete charging field from battery boosters to fast chargers. All chargers are conservatively designed with circuit protection and meters where required, and large capacity battery clips for ready connection to battery posts. All models are designed for operation from 115-volt 60-cycle power lines and are equipped with ample lengths of both AC and DC cables.

MOUNTING—All chargers are readily portable. They may be placed anywhere: in the car, on the garage floor, on a bench, etc. The small models are equipped with two holes for wall mounting where desirable.

ACCESSORIES—Although equipped with battery clips, a readily attachable polarized dashboard plug and receptacle (No. R-652) or cigarette lighter plug (R-655) are available as accessories for simple installation in an automobile. The addition of one of these receptacles makes possible simple plug-in connection of the charger to the car battery. Extra battery clips (No. R-653) are available. Automatic timer control (No. R-654) is offered for use with battery chargers to control the charge. It may also be used with many household appliances.

PACKAGING—One charger per cardboard shipping carton.

No. R-652—Polarized Dashboard Receptacle, for use with these chargers.

No. R-653—Extra Battery clips.

No. R-655—Cigarette lighter plug.

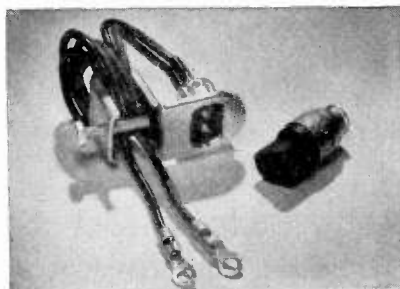
No. MMF-12—Specially designed filter for use in conjunction with 6-AC-4, 6-AC-6, 6-AC-10 chargers. Efficiently reduces AC ripple when these chargers are used as a DC power supply. May also be used with 6-AC-60 where max. current does not exceed 20 amps.



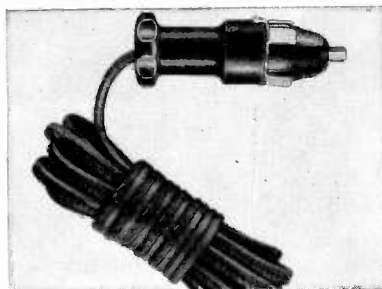
6-AC-4



6-AC-6



R-652



R-655

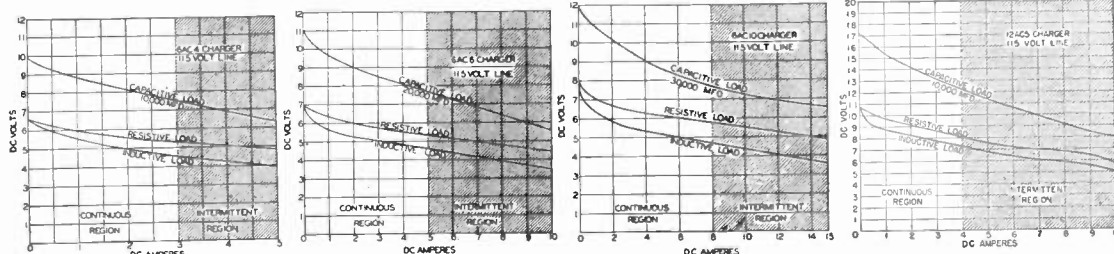


6-AC-10 • 12-AC-5

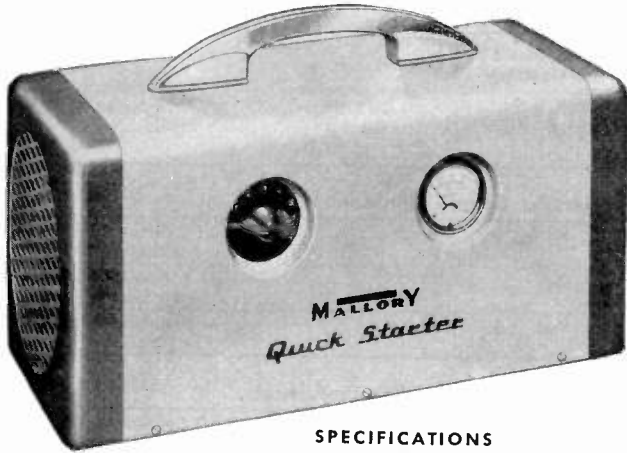
| Mallory Charger Catalog Number | Nominal Battery DC Volts | Maximum Charging Rate DC Amps. | Tapered Rate DC Amps. | Approx. 10 Hr. Charge in Amp. Hrs. | Charging Indicator | Approx. Overall Dimensions in Inches | | | Approx. Shipping Weight in Pounds |
|--------------------------------|--------------------------|--------------------------------|-----------------------|------------------------------------|--------------------|--------------------------------------|-------------------------------|--------------------------------|-----------------------------------|
| | | | | | | Height | Width | Depth | |
| 6AC4 | 6 | 4 | 2 | 30 | No | 4 ⁷ / ₁₆ | 7 ³ / ₈ | 3 ⁵ / ₁₆ | 4 ³ / ₈ |
| 6AC6 | 6 | 6 | 4 | 50 | Light Bulb | 4 ⁷ / ₁₆ | 7 ³ / ₈ | 3 ⁵ / ₁₆ | 7 |
| 6AC10 | 6 | 10 | 7 | 85 | Meter | 6 | 8 | 4 ¹ / ₄ | 12 ¹ / ₂ |
| 12AC5 | 12 | 5 | 3 | 40 | Meter | 6 | 8 | 4 ¹ / ₄ | 10 ³ / ₄ |

These chargers come with 6 feet of AC and DC cord.

The graphs below show typical charger characteristics when operating into various DC types of loads.



MALLORY FAST CHARGERS AND RECTIFIERS



SPECIFICATIONS

Cabinet—18" long, 10 $\frac{1}{4}$ " high, 9 $\frac{1}{4}$ " wide, including handle and cable rack. **Weight**—45 lbs. net. **Shipping Weight**—47 lbs. **A.C. Input**—115 v., 50-60 cycles, 10 am. **D. C. Output**—To charge 6 v. battery at 60 amp. max. **Cables**—Heavy insulation—long wearing. **D.C. Cables**—No. 6-9' long. Color identification for polarity. Heavy duty terminal clamps. **A.C. Cables**—No. 16—15' long. With rugged AC plug.

PORTABLE FAST CHARGER

• The Mallory 6-AC-60 Quick Starter is a portable unit providing 2 minute starting service or fast charging of batteries in a few hours.

A Mallory 80 amp Magnesium-Copper Sulfide rectifier stack insures dependable and rugged service. A 6 step charge control switch and ammeter allow charging rate adjustment. To provide automatic charging use the Mallory Automatic Timer Control (R-654).

Rectifier stack and transformer are efficiently cooled by a quiet running fan with an oil-less bearing motor. A convenient rack holds both AC and DC cables. The entire unit weighs only 45 lbs.

The Mallory Quick Starter will provide approximately 100 amp. hrs. charge in 2 hours. It also provides a convenient power supply for test and service equipment for horns, heaters, radio receivers, and electroplating.

Catalog No. 6-AC-60

Automatic Timer Control for 6AC60 Charger. Variable time setting up to 60 minutes. Contacts rated 20 amperes, 115 volts AC or 10 amperes, 230 volts, (suitable for DC loads). Also ideally suited to control lights, sunlamps, radios, fans, heating devices and numerous DC loads). Also ideally suited to control lights, sunlamps, radios, fans, heating devices and numerous other electrical household appliances.

Catalog No. 654



MALLORY MAGNESIUM-COPPER SULFIDE RECTIFIERS

APPLICATION—Mallory Magnesium-Copper Sulfide Rectifiers are time-tried and proved to be the most rugged, dependable rectifiers for those applications requiring low DC voltages at medium and high currents such as battery chargers and eliminators, electroplating, motion picture projector arcs, welding, engine starting, circuit breaker reclosing, solenoid and relays operation, etc.

DESCRIPTION—Mallory Magnesium-Copper Sulfide Rectifiers are all metal in construction, ruggedly assembled under high pressure to withstand severe vibrations and shock. There are no bulbs, liquids, moving parts or sparking contacts. Unlike all other types of rectifiers, they contain no temperature-sensitive films or layers, and have phenomenal ability to withstand abuse and extremes of temperature (-90° to $+265^{\circ}$ F.). Constant output without circuit adjustments is assured over many years of useful life. Should an accidental voltage surge occur, the rectifying film will "self-heal."

SCOPE AND SIZES—Many sizes are available to supply low DC voltages from watts to kilowatts. A new rectifier engineering data folder is available upon request, covering other sizes for single phase and three phase applications, both convection and fan cooled. In addition to rectifier stacks, P. R. Mallory & Co., Inc. also manufacture a complete line of Rectoplators (distributed exclusively by the Udylyte Corporation, 1651 East Grand

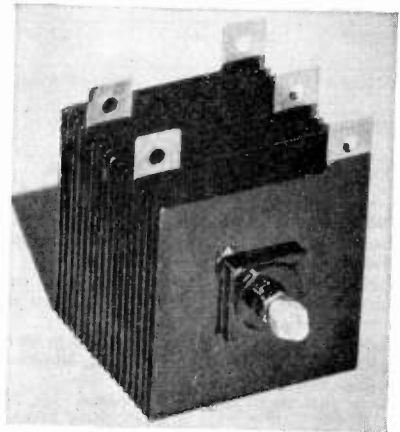
Boulevard, Detroit 11, Michigan), Rectotruck Chargers (industrial electric truck chargers available through truck agents).

REPLACEMENT RECTIFIERS—The Mallory Magnesium-Copper Sulfide Rectifiers listed on page 53 are only those popular sizes regularly carried in stock, principally for replacement purposes. These same rectifiers, however, may be used for numerous other applications. For example, the IB8R and IB12R rectifiers are ideal for reversing the direction of HO and O gauge model train locomotives respectively, using wound field motors (as illustrated in the wiring diagram, following page). IB12C1J, IS16CB7, and IS16B9 rectifiers may be readily used to assemble tapering battery chargers as illustrated in the wiring diagram. The IS24B9 rectifier may be used to make up a battery eliminator to operate and test modern automobile radio receivers as shown. Other applications immediately suggest themselves, such as electroplating, model and toy train DC power sources, radio filament supplies, chatter-free relay and solenoid operation, electric organ, automotive electrodynamic speaker field supplies, generator fields, telephone and telegraph system power supplies, etc.

MOUNTING—Rectifiers are available in either foot, bolt, or stud mounting, the latter two insulated from mounting means. Refer to note below table for type of mounting on replacement rectifiers.

HARDWARE—Wherever possible or practical, universal mounting hardware is included to assist in the ready replacement of old rectifier types.

PACKAGING—Rectifiers are packed one per display carton.



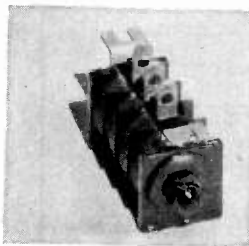
IS16B9



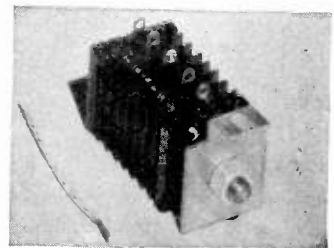
IB4R



IB8R



F24H1P



IB12C1J

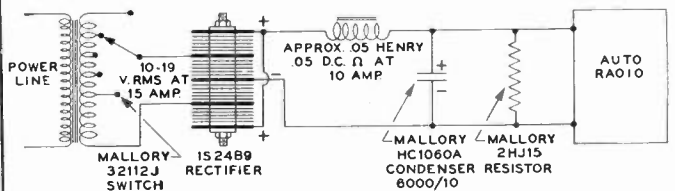
MALLORY RECTIFIERS

CHART OF REPLACEMENT RECTIFIERS

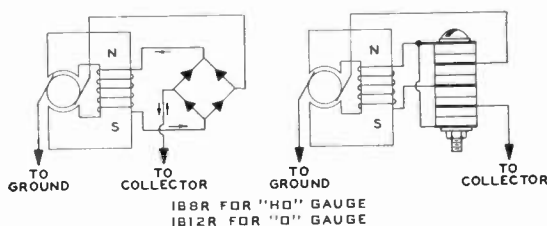
| New Catalog Number | Maximum AC Volts (Normal Line) | | Approx. DC Volts | | | Max. DC† Amperes | | Approximate Overall Dimensions in Inches | | | Replacement for Old Catalog Number | Replacement in Equipment |
|---|--------------------------------|-----------|------------------|----------------|-------------------------|------------------|-------------------|--|-------|--------|--|--|
| | No Load | Full Load | Inductive Load | Resistive Load | Capacitive-Battery Load | Continuous Duty‡ | Intermittent Duty | Length | Width | Height | | |
| | | | | | | | | | | | | |
| Ultra-Compact Replacement Rectifiers for Battery Eliminators, etc. | | | | | | | | | | | | |
| IB4R | 3.6 | 3.2 | 1.5 | 1.7 | 2.5 | 1.5 | 5.0 | 1 | 1/16 | 3/8 | | G.T.C. Porta-Power Electro Battery Eliminator |
| IB8R | 7.2 | 6.4 | 3.1 | 3.4 | 5.1 | 1.5 | 5.0 | 1 1/8 | 1/16 | 3/8 | | G.T.C. Porta-Power Electro Battery Eliminator |
| IB12R | 10.8 | 9.7 | 4.8 | 5.2 | 7.8 | 1.3 | 5.0 | 1 1/4 | 1/16 | 3/8 | | All Power Supplies for Electric Fence |
| Replacement Rectifiers for Automotive Chargers and Eliminators, etc. | | | | | | | | | | | | |
| IB12C1J | 10.8 | 9.8 | 4.6 | 5.1 | 7.7 | 3.2 | 24 | 2 3/4 | 1 1/4 | 1 1/8 | 12C1, F12C1, IF12C1B, 12C1F, F12C1K, IB12C1, IB12C1M, X12, X112, U12 | 4-2 Amp. Boosters Mallory 3C, 6AC4 |
| IB12C3 | 10.8 | 9.7 | 4.5 | 5.0 | 7.6 | 4.5 | 24 | 2 3/4 | 1 3/4 | 2 1/8 | | Mallory 6-AC-6-2 |
| F16C3 | 14.4 | 13.0 | 6.1 | 6.8 | 10.2 | 3.9 | 24 | 3 | 1 3/4 | 2 1/8 | 16C3, F16CB3, 16CB3, 16C3B*, XB16*, M16*, X16, X116, ME16 | 5-3 Amp. Old Chargers Mallory 5535 |
| IF16CB7M | 14.4 | 12.8 | 5.9 | 6.6 | 9.9 | 6.0 | 24 | 3 | 2 1/2 | 3 1/16 | | 6-3 Amp. Charger, Mallory 5535A |
| IS16CB7 | 14.4 | 12.8 | 5.9 | 6.6 | 9.9 | 6.0 | 24 | 3 3/4 | 2 1/2 | 3 | IS16CB7M | 6-3 Amp. Charger Mallory 5535B, 6AC6 |
| IS16B7 | 14.4 | 12.8 | 5.8 | 6.5 | 9.8 | 8.3 | 24 | 5 1/2 | 2 1/2 | 3 | IS16B7M, IB16B7 | 10-7 Amp. Charger, Mallory 107, 6-AC-10-2 |
| IS16B9 | 14.4 | 12.7 | 5.7 | 6.4 | 9.7 | 11.6 | 24 | 5 1/2 | 3 1/2 | 4 1/4 | | 10-7 Amp. Charger, Mallory 6AC10 |
| F20C7 | 18.0 | 16.2 | 7.6 | 8.4 | 12.6 | 4.8 | 24 | 4 3/4 | 2 1/2 | 3 3/16 | F20C7P | A.T.R. Battery Eliminators, etc. |
| IS24C7J | 21.6 | 19.4 | 9.0 | 10.1 | 15.1 | 4.5 | 24 | 4 3/4 | 2 1/2 | 3 3/16 | IB24C7, F24C3, F24C3P, F24C7P, F24C7, FCX24D7, 201C1, R24LR, R24LS | Mallory 12-AC-5-2, Stancor Eliminators, Univerter, Pin Game Supplies, etc. |
| IS24B9 | 21.6 | 19.1 | 8.5 | 9.6 | 14.4 | 11.0 | 24 | 7 1/2 | 3 1/2 | 4 1/4 | | Stancor Battery Eliminators, etc. |
| IS28C7J | 25.2 | 22.7 | 10.7 | 11.7 | 17.8 | 4.3 | 24 | 6 | 2 1/2 | 3 | F28C7, F28C7P, 228C1, 267C1, R28LS | 5-3 Amp. 12-volt Chargers, Mallory 125, 12AC5 |
| Replacement Rectifiers for Pin Ball Machines, Power Supplies, etc. | | | | | | | | | | | | |
| F16HIP | 14.4 | 13.1 | 6.3 | 7.0 | 10.4 | 2.2 | 24 | 2 1/4 | 1 1/4 | 2 | 16A1, F16G1, F16G1P, F16HI, W16A1, 211C1, R16S | Electropak, Rectopak, Univerter, etc. |
| F20HIP | 18.0 | 16.4 | 7.9 | 8.7 | 13.0 | 2.0 | 24 | 2 3/4 | 1 1/4 | 2 | 20A1, F20G1, F20G1P, F20H1, W20A1, 212C1, R20S, X20 | Electropak, Rectopak, Univerter, etc. |
| F24HIP | 21.6 | 19.7 | 9.6 | 10.4 | 15.7 | 1.9 | 24 | 3 | 1 1/4 | 2 | F24G1, F24G1P, F24H1, W24A1, 203C1, R24S | Electropak, Rectopak, Univerter, etc. |
| F28HIPM | 25.2 | 23.0 | 11.2 | 12.2 | 18.4 | 1.7 | 24 | 3 1/4 | 1 1/4 | 2 | F28G1, F28G1P, F28H1, F28HIP, W28A1, F28H1MP, 210C1, R28S | Electropak, Rectopak, Univerter, etc. |
| F32HIPM | 28.8 | 26.2 | 12.8 | 14.0 | 21.0 | 1.6 | 24 | 3 3/4 | 1 1/4 | 2 | F32G1, F32G1P, F32H1, F32HIP | Electropak, Rectopak, Univerter, etc. |

NOTE: All rectifiers are single phase, full wave, bridge type.
Mounting Prefix: IB=Insulated Bolt; B=Grounded Bolt; F=Grounded Foot; IF=Insulated Foot; IS=Insulated Stud.
P suffix designates reverse polarity stacking. Center terminal is DC positive.
J suffix designates universal construction with loose mounting feet for foot, bolt or stud mounting replacement.
 †To determine AC Amps: Multiply the DC amps by the following factors:
 Inductive load by 1.1; resistive load by 1.2; capacitive load by 1.4.
 *Use base from old rectifier.
 ‡Ratings given are for resistive and inductive loads. To determine the Max. continuous DC amp. rating for capacitive and battery loads multiply these ratings by 0.82.

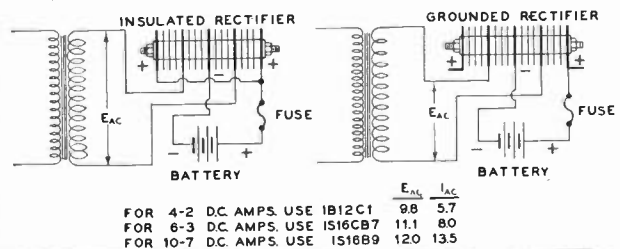
AUTOMOBILE RADIO POWER SUPPLY CIRCUIT



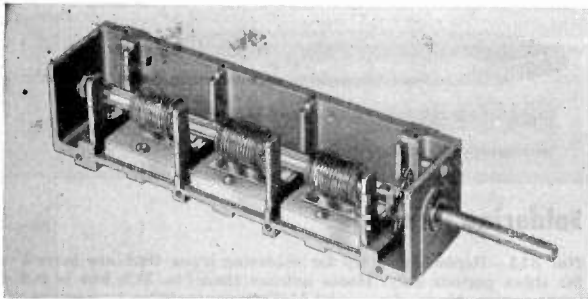
MODEL TRAIN LOCOMOTIVE REVERSING CIRCUITS



TYPICAL BATTERY CHARGING CIRCUITS



MALLORY SPECIAL COMPONENTS AND MISCELLANEOUS ITEMS



Mallory Inductuner* Type 8301

● The Inductuner is a three-gang, infinitely variable inductance tuning device, designed to provide continuous frequency selection over a range of frequencies from approx. 50 to 240 megacycles, covering the 1 $\frac{1}{4}$, 2, and 6-meter bands, as well as all television and FM bands. Various tuning ranges can be selected by varying the circuit constants, as required. The ten-turn, or 3600° rotation, permits convenient selection of the frequency desired without the use of a bandspread mechanism or intricate gear drive. Band width can be easily controlled by the use of a suitable bandpass circuit.

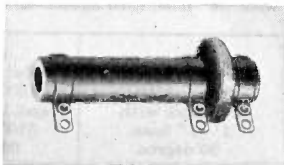
At the present time the Inductuner has acceptance as the tuning unit in television receivers that offer FM, police, aircraft and amateur reception, as well as the full 13 channels assigned for video transmission.

The complete assembly is substantially mounted in a die-cast frame, completely shielded. Size $7\frac{3}{16}$ " long x $1\frac{13}{16}$ " x $1\frac{13}{16}$ ".

A technical information bulletin is available on request, containing complete details, electrical characteristics, and suggested circuits. Inductuner*—Registered trade mark for Mallory variable inductance tuning devices. Manufactured and sold under one or more of the following Paul Ware and Mallory patents: 2,163644, 2,163645, 2,163646, 2,163647, 2,260877, 2,377789, 2,377790, 2,399060, 2,405890. Other patents applied for.

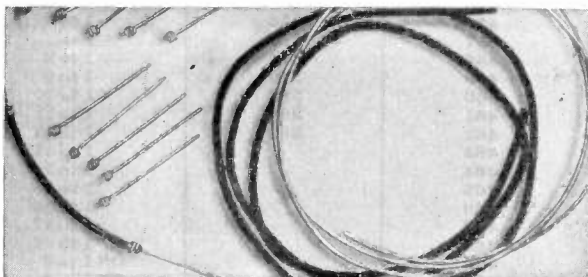
TYPE VC-101

Videocoupler



● The Mallory VC-101 Videocoupler is a compact inter-stage coupling unit for use in the wide-band amplifiers commonly found in television, radar and oscilloscope equipment. It consists of peaking inductances and a load resistance which provide an essentially flat frequency response to 4 mc. per second. It is designed to work into a terminating capacity of 22.5 mmfd. When used with a 6AC7 tube in a proper circuit, a stage gain of approximately 25 may be realized.

Mounting space required: $1\frac{3}{4}$ " long x $\frac{3}{4}$ " in diameter; max. dissipation 2 watts; finish, high-temperature enamel. Use a No. 6 bolt through the core for mounting.



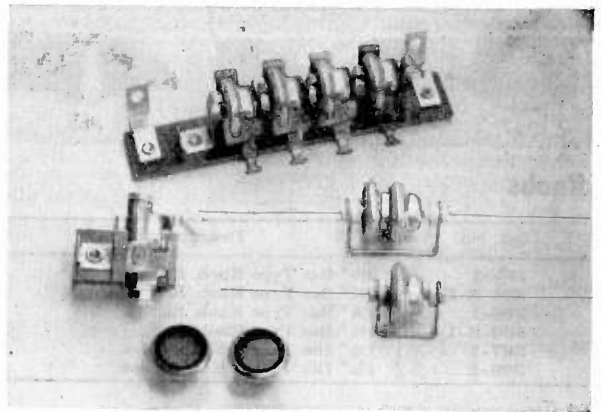
Yard-Ohm Resistance Kits

● Each Yard-Ohm Resistance Kit consists of all necessary materials to construct flexible resistors of a wide range of values. The Yard-Ohm Kit provides a real solution to the odd-value resistor problem. In addition to replacement applications, resistors made from the Yard-Ohm Kit are ideal for meter shunts, and for use wherever a high quality flexible resistor is desired.

Each Mallory Yard-Ohm Kit consists of the following: 1 yard spiral wound resistance wire; 1 yard insulated braid; 24 spiral wire leads. The kit is available in eight resistance values.

Dissipation—all types: $\frac{1}{2}$ watt per inch.

| Catalog Number | Resistance Value (Ohms per Inch) | Carrying Capacity in Amperes | Catalog Number | Resistance Value (Ohms per Inch) | Carrying Capacity in Amperes |
|----------------|----------------------------------|------------------------------|----------------|----------------------------------|------------------------------|
| YO-1 | 1 | .707 | YO-50 | 50 | .100 |
| YO-5 | 5 | .315 | YO-100 | 100 | .071 |
| YO-10 | 10 | .223 | YO-250 | 250 | .044 |
| YO-25 | 25 | .141 | YO-500 | 500 | .031 |



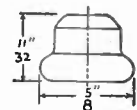
Grid Bias Cells

● The Mallory Grid Bias Cell is a small acorn-shaped, self-contained device. The metal container or cup is the negative electrode. The black disc is the positive electrode.

Application

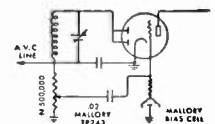
The principal use of Mallory Grid Bias Cells is in the biasing of the first audio amplifier tube in modern high-gain receivers. Diagram of a typical circuit is shown at right. The bias cell does not need to be by passed to ground.

Correspondence is invited regarding the application of Mallory Grid Bias Cells. Special Technical Bulletin No. GBC746 may be obtained on request.



Characteristics

The no-current potential of Mallory Grid Bias Cells is within plus or minus 10% of their rated voltage.



Current—The cell is strictly a potential or voltage cell for biasing class "A" amplifier tubes and should not be used for biasing power tubes or oscillators; or for any circuit where direct current may flow through, or be drawn from, the cell.

Temperature—The cells may be used at temperatures from 0°F to 140°F. The voltage of the cell remains reasonably constant throughout this wide temperature range. It is recommended, however, that wherever possible the bias cell be placed in the coolest location.

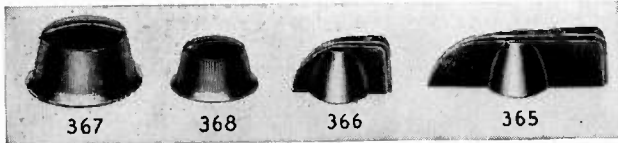
Humidity—The cell exhibits no change in characteristics when exposed to a relative humidity of 90% at 120°F.

Impedance—Mallory Grid Bias Cells are non-reactive at audio frequencies. The DC resistance of the cell ranges between 10,000 and 40,000 ohms.]

Noise—The cells do not cause noise.

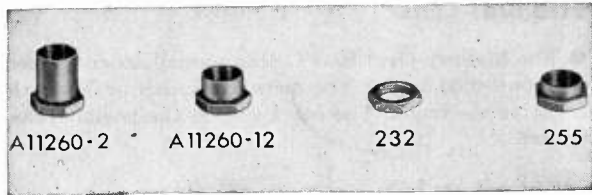
| Cat. No. | Description |
|----------|--|
| BC-2 | 1/4-volt Grid Bias Cell (packed 10 to box) |
| GB11A | Cell Holder, 1-cell capacity |
| GB11B | Cell Holder, 1-cell capacity |
| GB12 | Cell Holder, 2-cell capacity |
| GB13 | Cell Holder, 3-cell capacity |
| GB14 | Cell Holder, 4-cell capacity |
| GB15 | Cell Clip, 1-cell capacity |
| GB16 | Cell Clip, 2-cell capacity |

MALLORY SPECIAL COMPONENTS AND MISCELLANEOUS ITEMS



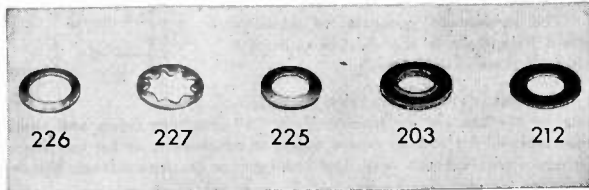
Knobs

| Cat. No. | Description |
|----------|-------------------------------|
| 365-1 | 2 1/4" Bar Type Knob, Black |
| 365-R-1 | 2 1/4" Bar Type Knob, Red |
| 366-1 | 1 1/4" Bar Type Knob, Black |
| 366-R-1 | 1 1/4" Bar Type Knob, Red |
| 367-1 | 1 1/2" Dia. Round Knob, Black |
| 368-1 | 1 1/2" Dia. Round Knob, Black |



Mounting Nuts

| Cat. No. | Description | Thread | Dimension |
|------------|------------------------|--------|----------------------------------|
| 232 | Flat Hex Mounting Nut. | 3/8-32 | 1/2 x 3/32 |
| 255 | Hex Mounting Nut. | 3/8-32 | 1/2 x 7/64 x 7/64 shoulder nut |
| A-11260-2 | Hex Mounting Nut. | 3/8-32 | 1/2 x 7/64 x 1 1/32 shoulder nut |
| A-11260-12 | Hex Mounting Nut. | 3/8-32 | 1/2 x 7/64 x 7/32 shoulder nut |



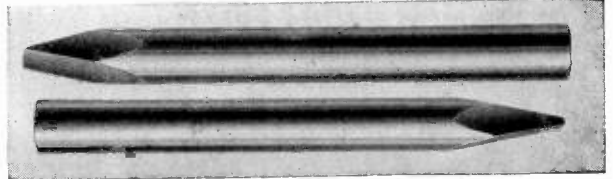
Washers

| Catalog No. | Description and Dimensions |
|-------------|---|
| 203 | Extruded Washer—Fiber—3/8" O.D. x 3/8" I.D. x 1/16"; Extruded 1/2" x 1/32" For Set See No. 212 Flat Washer. |
| 212 | Flat Washer—3/8" O.D. x 3/8" I.D. x 1/32"; Bakelite |
| 225 | Metal Washer—Nickel Finish—3/8" O.D. x 3/8" I.D. .040 Brass |
| 226 | Metal Washer—Nickel Finish—5/8" O.D. x 7/16" I.D. .040 Brass |
| 227 | Lock Washer—Cadmium Plated Steel—1 1/16" O.D. x 2 5/64 I.D. |

MALLORY

RADIO SERVICE ENCYCLOPEDIA

Page after page of replacement information for all pre-war and post-war receivers.



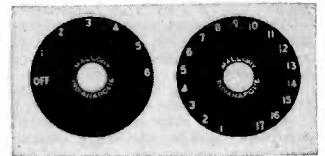
Soldering Iron Tips

No. 311—Replacement tip for soldering irons that are turned on for short periods only. Heats quicker than No. 312, but is not as long wearing. Made of a special Mallory copper alloy long in use as a welding tip material. Nickel plated to resist corrosion. Size—3/8" diameter, 4" length. Plunger style with "screw driver" point.

No. 312—Replacement tip for soldering irons that are used continuously for long periods of time. Made of a special Mallory copper alloy of great hardness and high electrical conductivity. Nickel plated to resist corrosion. Size—3/8" diameter, 4" length. Plunger style, with "screw driver" point.

Dial Plates

For Mallory Circuit Selector, Tap and All-Wave Switches. (Plates to match rotation of Mallory Adjustable Resistors on page 33.)



Neat-appearing Dial plates with easy-to-read aluminum figures clearly etched on solid black background. Dimensions are 1 3/16" in diameter with 7/16" hole, with figures 7/64" high. .020" aluminum stock.

| For all types 3100J, 3200J Switches with 1 1/16" base. 20 degree spacing between numerals. | For all Switch types 1200L, 1300L and 1 1/4" base 3100J, 3200J. 30 degree spacing between numerals. | Marking |
|--|---|-------------|
| Cat. No. | Cat. No. | |
| 453 | 372 | 1 to 2 |
| 454 | 373 | 1 to 3 |
| 455 | 374 | 1 to 4 |
| 456 | 375 | 1 to 5 |
| 457 | 376 | 1 to 6 |
| 458 | 377 | 1 to 7 |
| 459 | 378 | 1 to 8 |
| 460 | 379 | 1 to 9 |
| 461 | 380 | 1 to 10 |
| 462 | 381 | 1 to 11 |
| 463 | 382 | 1 to 12 |
| 464 | | 1 to 13 |
| 465 | | 1 to 14 |
| 466 | | 1 to 15 |
| 467 | | 1 to 16 |
| 468 | | 1 to 17 |
| 472 | | 1 to 18 |
| 473 | | Off 1 to 2 |
| 474 | 383 | Off 1 to 3 |
| 475 | 384 | Off 1 to 4 |
| 476 | 385 | Off 1 to 5 |
| 477 | 386 | Off 1 to 6 |
| 478 | 387 | Off 1 to 7 |
| 479 | 388 | Off 1 to 8 |
| 480 | 389 | Off 1 to 9 |
| 481 | 390 | Off 1 to 10 |
| 482 | | Off 1 to 11 |
| 483 | | Off 1 to 12 |
| 484 | | Off 1 to 13 |
| 485 | | Off 1 to 14 |
| 486 | | Off 1 to 15 |
| | | Off 1 to 16 |
| | *394 Special | 1 to 24 |
| | †487 Special | 1 to 5 |
| | ‡488 Special | 1 to 4 |

*15° Spacing Between Numerals
 †60° Spacing Between Numerals
 ‡90° Spacing Between Numerals

ATR • VIBRATORS • ATR

AMERICAN TELEVISION & RADIO CO.

ATR AUTO RADIO VIBRATORS



ATR Manufactures a Complete Line of Auto Radio Replacement Vibrators

Ask your ATR Distributor for your Free Copy of the Latest ATR Vibrator Guide

ATR VIBRATORS

feature Ceramic Stack Spacers, and are proven units of the highest quality, engineered to perfection. They are backed by more than 17 years of vibrator design and research, development and manufacturing — ATR Pioneered in the Vibrator Field.

ATR VIBRATOR EQUIVALENT CHART

| ATR | TYPE | SIZE | ATR LIST PRICE | E-L | MALLORY | RADIART |
|-----|------|-------------------|----------------|------|---------|---------|
| 324 | Int. | 1 1/2" x 3 1/8" | \$4.10 | 1703 | 294 | 5300 |
| 328 | Int. | 1 1/2" x 3 1/8" | 4.10 | 2090 | 854 | 5331 |
| 335 | Int. | 1 1/2" x 3 1/8" | 4.10 | 2088 | 852 | 5303 |
| 340 | Int. | 1 1/2" x 2 7/8" | 4.10 | 2605 | 859 | 5301 |
| 508 | Syn. | 1 15/16" x 4 1/2" | 7.65 | 2682 | 273C | 5425 |
| 520 | Syn. | 1 1/2" x 3 1/8" | 6.90 | 2688 | 245 | 5409 |
| 522 | Syn. | 1 1/2" x 3 1/8" | 6.90 | 2089 | 246 | 5411 |
| 524 | Syn. | 1 1/2" x 3 1/8" | 6.90 | 2107 | 248 | 5400 |
| 525 | Syn. | 1 1/2" x 3 1/8" | 6.90 | 2687 | 249 | 5406 |
| 547 | Syn. | 1 15/16" x 3 1/2" | 6.90 | 2092 | 716 | 5426 |

THESE 10 POPULAR ATR VIBRATORS MEET 90% OF YOUR SERVICE NEEDS

ATR • ELIMINATORS • ATR

AMERICAN TELEVISION & RADIO CO.



Illustrates Heavy Duty "A" Battery Eliminator, Type 620C-ELIP, Equipped with Voltmeter, Ammeter and Voltage Control.

ATR "A" BATTERY ELIMINATORS

Specially Designed for Testing and Operating Auto Radios and D. C. Electrical Apparatus on Regular A. C. Lines, 105-125 Volts 50-60 Cycles.

- Fully Automatic and Fool-Proof.
- Eliminates Storage Batteries and Battery Chargers.
- Operates the Equipment at Maximum Efficiency at all Times.
- Delivers Filtered Direct Current at the Correct Voltage for Proper Operation.

SUGGESTED USES:

As a power supply for radio sets, aircraft instruments, relays, motors and other electrical and electronic equipments. In the laboratory, for supplying various low D. C. voltages.

Battery Eliminators may be treated as batteries in the sense that they can be connected in series for higher voltages at the same current output per unit or in parallel for the same output voltage per unit at higher currents.

Equipped with Full-Wave Dry Disc Type Rectifier, Assuring Noiseless, Interference-Free Operation and Extreme Long Life and Reliability.

TYPE 610 ELIB—Rated output 6 volts at 10 amperes. Size 6½" x 9½" x 8½"; shipping weight, 22 lbs. Code word, "SELIB".
Net Price \$29.70

TYPE 620C ELIP—Uses dual rectifiers. Size 6½" x 12¾" x 8½". Shipping weight, 33 lbs. Code word, "HELIN".

Rated Output: 6 volts at 18 amperes or 12 volts at 9 amperes. Either output obtainable by means of simple output terminal switching arrangement.
Net Price \$45.90

All ATR Eliminators have as standard equipment: On-Off Switch, Voltage Control, Meter(s), Fuse Protection, Rubber Mounting Feet, 6-Ft. All-Rubber Cord Set, and Cabinet of heavy gauge metal having attractive grey-wrinkled finish.



Illustrating Standard "A" Battery Eliminator, Type 610 ELIB, Equipped with Voltmeter and Voltage Control.

ATR • INVERTERS • ATR

AMERICAN TELEVISION & RADIO CO.

ATR STANDARD AND HEAVY DUTY RADIO INVERTERS

Specially Designed for Operating A. C. Radios, Public Address Systems, Television Sets, Amplifiers, Intercall Systems, and Radio Test Equipment from D. C. Voltages in Vehicles, Ships, Trains, Planes, and in D. C. Districts.



Illustrates all Standard ATR Radio Inverters except types 6 and 12 RSB.

This group of ATR Inverters is specially recommended for use with A. C. radios, amplifiers, and similar electronic equipment, being exceptionally well filtered to insure interference-free radio reception. With ATR Inverters, the need for special equipment is eliminated. They are designed for quiet, long-life radio operation. All models indicated are equipped with an ATR ten-contact plug-in Inverter Vibrator of new design and construction having dual arms and utilizing eight 1/4" diameter tungsten power contacts and two silver alloy driver contacts, insuring increased long life and reliable service. These Inverters also come equipped with four point voltage regulators, which make possible the correct output voltage for minimum to maximum loads and also help compensate for input voltages which are lower or higher than normal; the operating efficiency is in excess of 85%.

| Type | Input D.C. Volts | A.C. Output 60 Cycles | Output Wattage | | Code Word | List Price |
|----------|------------------|-----------------------|----------------|------------|-----------|------------|
| | | | Intermittent | Continuous | | |
| 6 RSC | 6 | 110 volts | 85 | 75 | ARSCD | \$44.00 |
| 12 RSC | 12 | 110 | 125 | 100 | BRSCF | 44.00 |
| 24 RSC | 24 | 110 | 125 | 100 | NRSCQ | 48.50 |
| 32 RSC | 32 | 110 | 150 | 100 | CRSCF | 45.50 |
| 32B-RHC | 32 | 110 | 200 | 180 | DRHCG | 69.50 |
| 50 RSC | 50 | 110 | 150 | 100 | ERHCH | 57.00 |
| 110 RSC | 110 | 110 | 250 | 150 | GRSCJ | 45.50 |
| 110A-RHC | 110 | 110 | 325 | 225 | HRHCK | 65.00 |
| 110B-RHC | 110 | 110 | 500 | 350 | IRHCL | 75.00 |
| 110C-RSC | 110 | 110/220 | 250 | 150 | JRSCM | 57.00 |
| 220 RSC | 220 | 110 | 250 | 150 | LRSCO | 48.50 |
| 220A-RSC | 220 | 110/220 | 250 | 150 | MRSCP | 57.00 |

Radio frequency interference completely suppressed.

Any of the above type Inverters are available with 220 volt A.C. output at prices 25% higher. In ordering, specify "S" after the type number and substitute for the last letter in the code word "T"; that is, if a 110 volt D. C. Inverter having a 220 volt A. C. output is desired, this would be ordered as Type 110S covered by code word, "GRSCT".

ATR Standard and Heavy Duty Radio Inverters are housed in attractively finished grey-wrinkled metal cabinets.

Dimensions of Standard Model Radio Inverters, 8 3/8" x 9" x 5 1/4"; Shipping weight, 19 lbs.

Dimensions of Heavy Duty Model Radio Inverters, 6 1/2" x 11 1/8" x 8 1/2"; Shipping weight, 30 lbs.

For correct replacement vibrator, consult Inverter Vibrator Guide.



Illustrates Types 6 and 12 RSB Standard Radio and Industrial Inverters only.

ATR • INVERTERS • ATR

AMERICAN TELEVISION & RADIO CO.



Illustrating all Types LID Inverters except Types 6 and 12.

ATR Low Power INVERTERS

For Operating Small A. C. Motors, Electric Razors, Radios, and Devices of Approximately 35 watts Consumption from 6, 12, 24, 32, 110, and 220 volt D. C. Lines.

This line of ATR Low Power Inverters was specially brought out to meet the insistent demand for a good, low power, inexpensive portable Inverter for operating phonograph and other A. C. motors and a host of small A. C. devices from D. C. voltage sources. These Inverters operate at an efficiency in excess of 90% and are designed for operation of loads having a power factor as low as 60%. They are ruggedly built and powered by a special ATR six-contact plug-in Inverter Vibrator utilizing four 1/4" diameter tungsten power contacts and two silver alloy driver contacts.

| Type | Input D. C. volts | A.C. Output 60 cycles | Wattage | | Code Word | List Price |
|---------|-------------------|-----------------------|--------------|------------|-----------|------------|
| | | | Intermittent | Continuous | | |
| 6 LID | 6 | 110 volts | 40 | 35 | ALIDM | \$29.50 |
| 12 LID | 12 | 110 | 50 | 35 | BLIDN | 29.50 |
| 24 LID | 24 | 110 | 50 | 35 | FLIDR | 32.50 |
| 32 LID | 32 | 110 | 50 | 35 | CLIDO | 32.50 |
| 110 LID | 110 | 110 | 75 | 50 | DLIDP | 29.50 |
| 220 LID | 220 | 110 | 75 | 50 | ELIDQ | 32.50 |

Radio frequency interference suppressed.
 Any of the above type Low Power Inverters are available with 220 volt A. C. output at prices 25% higher. In ordering, specify "S" after the type number and substitute for the last letter in the code word "T"; that is, if a 110 volt D. C. Low Power Inverter having a 220 volt A. C. output is desired, this would be ordered as Type 110S covered by code word, "DLIDT".
 Dimensions, 5 3/8" x 4" x 6 1/2"; shipping weight, 7 lbs.
 Replacement Vibrators for any of the above Low Power Inverters are available. Be sure to mention the type number as well as model number when ordering. Consult Inverter Vibrator Guide.

ATR STANDARD AND INDUSTRIAL INVERTERS

HEAVY DUTY

For Operating A. C. Motors, Electronic Apparatus, Electrical Testing Equipment, and A. C. Electrical Appliances from D. C. Lines.

These units are specially designed for applications as indicated, permitting the use of standard A. C. equipment on D. C. lines. These Inverters operate at an efficiency in excess of 80% and are carefully built and equipped to give the longest possible life and operating satisfaction. All Inverters indicated utilize ATR ten contact plug-in vibrators, and are also equipped with four point voltage regulators as fully described above. These Industrial Inverters are recommended for use with loads having power factors as low as 60%, and as low as 50% for the "P" Inverters indicated. These Inverters should not be used with Neon signs.



Illustrating Heavy Duty Models Radio and Industrial Inverters except types 6 and 12. Types 6 and 12 Industrial Inverters are illustrated by small cut on page M-23.

| Type | Input D.C. volts | A.C. Output 60 cycles | Output Wattage | | Code Word | List Price |
|-----------|------------------|-----------------------|----------------|------------|-----------|------------|
| | | | Intermittent | Continuous | | |
| 6 ISP | 6 | 110 volts | 85 | 75 | AISPD | \$44.00 |
| 12 ISP | 12 | 110 | 125 | 100 | BISPE | 44.00 |
| 24 ISP | 24 | 110 | 125 | 100 | LISPN | 48.50 |
| 32 ISP | 32 | 110 | 150 | 100 | CISPE | 45.50 |
| 32P*-ISP | 32 | 110 | 150 | 125 | DISPE | 57.00 |
| 32B-IHP | 32 | 110 | 200 | 180 | EIHPP | 69.50 |
| 110 ISP | 110 | 110 | 250 | 150 | FISPH | 45.50 |
| 110P*-ISP | 110 | 110 | 250 | 150 | GISPI | 57.00 |
| 110A-IHP | 110 | 110 | 325 | 225 | HIHPJ | 65.00 |
| 110B-IHP | 110 | 110 | 500 | 350 | IIHPK | 75.00 |
| 220 ISP | 220 | 110 | 250 | 150 | JISPL | 48.50 |
| 220P*-ISP | 220 | 110 | 300 | 150 | KISPM | 57.00 |

Radio frequency interference not suppressed.
 Any of the above type Inverters are available with 220 volt A. C. output at slightly higher prices. In ordering, follow similar directions given above.

ATR Standard and Heavy Duty Industrial Inverters are housed in attractively finished grey-wrinkled metal cabinets.

Dimensions of Standard Model Industrial Inverters, 8 3/8" x 9" x 5 1/4".
 Shipping weight, 19 lbs.

Dimensions of Heavy Duty Industrial Inverters, 6 1/2" x 11 1/2" x 8 1/2"; shipping weight, 30 lbs.

For correct replacement vibrator, consult Inverter Vibrator Guide.

*"P" Inverters are corrected for loads having power factors as low as 50%.

Built-in filter, \$10.00 additional.

ELECTRO
ELECTRICAL AND RADIO EQUIPMENT

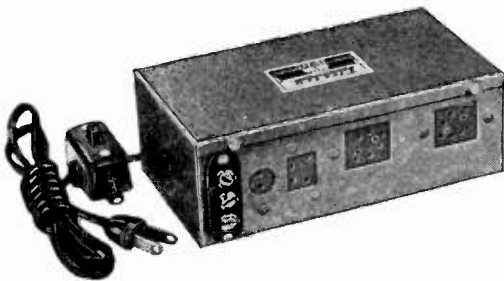
BATTERY ELIMINATORS of Distinction

ELECTRIFY with ELECTRO

Now battery radio reception can be enjoyed at its best without the usual grief and expense incurred when using batteries. Radio can be used for unlimited periods without fading. Costs but a few cents per hundred hours of operation.

FOUR TYPICAL MODELS are shown on this and

the following page. These are ruggedly constituted units of unusually long life—easy to install—no liquids to spill—no moving parts to get out of order and wear out—operate in any position. Completely filtered, hum free and silent in operation. Universal plugs and sockets are provided to accommodate any radio. All units durably finished in blue hammerloid.



MODEL "S" COMPACT With Selenium Rectifier

Operates Any 1.4 Volt — 4, 5 or 6 Tube Battery Radio from 115 Volt, 60 Cycle Source

Designed for sets using 1A7, 1E4, 1N5G, 1Q5G, tubes to convert battery radio to an efficient AC receiver with low operating cost. Fits in battery compartment of most radios. Ideal for use in home, hotel, camp or any place where normal AC is available.

Technical Data

| | |
|--------------------------|------------------|
| "A" Supply Output | |
| 5-6 tubes (average)..... | 1.4 V. @ 320 ma. |
| 4 tubes..... | 1.4 V. @ 250 ma. |
| 4 tubes..... | 1.4 V. @ 200 ma. |

"B" Supply Output
90 Volts DC @ 12 ma. max.

Primary
115 Volts AC @ 60 cycles.

Specifications
Six foot cord and plug — switch in cord.
Size: 2 3/8" x 3 1/2" x 6 3/4".
Weight packed: 3 1/2 pounds.

On and Off switch for permanent mounting — becomes part of the radio.

LIST PRICE \$16.75

MODEL "P" COMPACT

Same as MODEL "S" except has tube rectifier. Also available for 220 Volt operation.

LIST PRICE \$15.00



MODEL "F" COMPACT

Operates Any 2 Volt — 4, 5, 6 or 7 Tube Battery Radio from 115 Volt, 60 Cycle Source

For receivers using 1A4, 1C7, 1D5, 1E5, 1F5, 1F7, 1H4G, etc., tubes to change radio into an all-electric set. Inexpensive to operate.

Technical Data

| | |
|--------------------------|-------------------------------|
| "A" Supply Output | |
| 7 tubes..... | 2 V. @ 480 Ma. — 500 ma. max. |
| 6 tubes..... | 2 V. @ 420 ma. |
| 4-5 tubes (average) | 2 V. @ 325 ma. |

"B" Supply Output
67, 90, 112, 135 Volts DC @ 18 ma.

Primary
115 Volts AC @ 60 Cycles. Also available for 220 Volt Operation.

Specifications
Six foot cord and plug, switch in cord.
Size: 2 3/8" x 4 1/2" x 8 1/4".
Weight packed: 5 1/2 pounds.

LIST PRICE \$17.95

MODEL "R" SYNCRO POWER

Same as Model "F" but operates from 6 Volt DC source. Supplied with cord and battery clips. On and Off switch in eliminator turns power on.

LIST PRICE \$20.75

ELECTRO PRODUCTS LABORATORIES

ELECTRO
ELECTRICAL AND RADIO EQUIPMENT

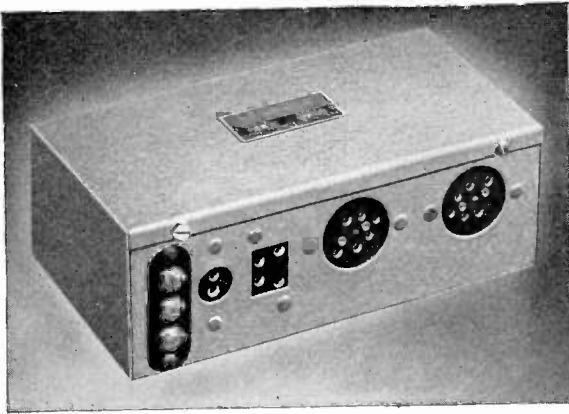
BATTERY ELIMINATORS *of Distinction*

ELECTRIFY with ELECTRO

Now battery radio reception can be enjoyed at its best without the usual grief and expense incurred when using batteries. Radio can be used for unlimited periods without fading. Costs but a few cents per hundred hours of operation.

FOUR TYPICAL MODELS are shown on this and

the preceding page. These are ruggedly constituted units of unusually long life—easy to install—no liquids to spill—no moving parts to get out of order and wear out—operate in any position. Completely filtered, hum free and silent in operation. Universal plugs and sockets are provided to accommodate any radio. All units durably finished in blue hammerloid.



MODEL "Q" SYNCRO POWER

Operates Any 1.4 Volt — 4, 5, or 6 Tube Battery Radio from 6 Volt DC Source

This Eliminator is to be used where 115 Volt AC lines are not available. Will provide all "A" and "B" voltages more efficiently and at lower cost from 6 Volt battery. Will operate a 4-tube radio three weeks at 3 hours a day on a single storage battery (100 A.H.) charge.

Technical Data

"A" Supply Output

| | |
|--------------------------|------------------|
| 5-6 tubes (average)..... | 1.4 V. @ 320 ma. |
| 4 tubes..... | 1.4 V. @ 250 ma. |
| 4 tubes..... | 1.4 V. @ 200 ma. |

"B" Supply Output

90 Volts DC @ 12 ma. max.

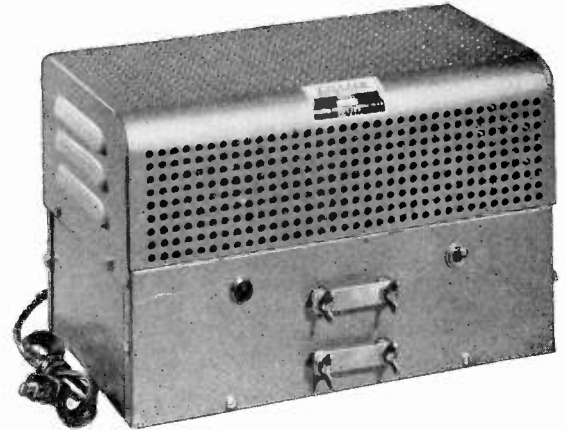
Primary

6 Volts DC @ 0.8 Amp. (for 4-tube radio).

Specifications

Cord and battery clips on primary.
On and Off switch in Eliminator turns power on.
Size: 2 $\frac{3}{8}$ " x 3 $\frac{1}{2}$ " x 6 $\frac{3}{4}$ ".
Weight packed: 3 $\frac{1}{2}$ pounds.

LIST PRICE \$18.00



MODEL "A" POWER SUPPLY

Operates latest type auto radios with solenoid tuning and tone controls — also 12 Volt marine and aircraft radios from 115 Volt, 60 Cycle Source. In parallel supplies 6 Volts at 15 Amps. In series 12 Volts at 7 $\frac{1}{2}$ Amps.

Separately, 6 Volts at 7 $\frac{1}{2}$ Amps.

Designed especially to do away with the bother of old-fashioned storage batteries. Ideal for the radio service man. Two separately filtered DC output sources are provided for convenience. Heavy duty transformer and chokes; and two large capacity condensers provide excellent voltage regulation.

Technical Data

Output

| | |
|----------------------------------|--------------------------|
| 6 Volts — 15 Amps. | continuous. |
| 6 Volts — 25 Amps. | max. instantaneous. |
| 12 Volts — 7 $\frac{1}{2}$ Amps. | continuous. |
| 6 Volts — 7 $\frac{1}{2}$ Amps. | two sections continuous. |

Primary

Taps on transformers for 105, 115, 125 Volts, 60 cycle AC. Each completely filtered section is separately fused for heavy overloads.

Specifications

Six foot rubber cord and plug.
Size: 7 $\frac{3}{4}$ " x 7 $\frac{3}{4}$ " x 11 $\frac{3}{4}$ ".
Weight packed: 31 pounds.
Electrostatic shield with R.F. line filter.
Large capacity bridge type rectifiers.
Two 2,000 M.F.D. condensers.
Terminals on front of panel with wing nuts.

LIST PRICE \$67.50

ELECTRO PRODUCTS LABORATORIES



PERMA-POWER

BATTERY ELIMINATORS



LIST
PRICE
\$14⁹⁵

Size: 2 1/8" x 4 1/2" x 6 3/4"
Shipping weight: 4 lbs.

MODEL "A"

for 1 1/2 volt radios with 4, 5, or 6 tubes. Model A has a circuit designed for optimum voltage regulation and changes in line voltages. It maintains practically constant voltage control under varying tube loads, with universal sockets for all battery plugs. Model A will fit all farm battery radios as well as the battery compartments of practically all portables.

PROVIDES

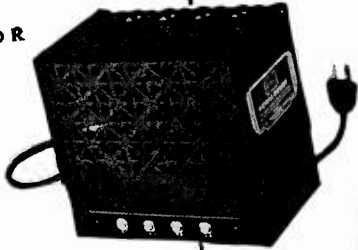
"A" — 1.5v at 200 m.a.
1.35v at 250 m.a.
1.55v at 300 m.a.
1.35v at 350 m.a.

"B" — 90v at 13 m.a.
101v at 8.5 m.a.

MODEL "B"

BATTERY ELIMINATOR

for 6-volt radios, twin-powered. Model B will convert most 6-volt battery radios. Operates on 105-125 volt 50-60 cycle lines supplying "A" and "B" power. Vibrator disturbance eliminated and high fidelity performance assured by sensational new design having two isolated sources; one for the vibrator and one for the filaments. It provides two sources of 6 volts at 1 1/2 amps., or when connected in parallel — 3 amps. Screw type terminals.



LIST
PRICE
\$19⁹⁵

Size: 3 5/8" x
6 1/8" x 5 1/2"

Shipping weight: approx. 7 lbs.

MODEL "E"

BATTERY ELIMINATOR

for 2-volt radios with 4, 5, 6, 7 or 8 tubes. Model "E" has both A and B circuits designed for optimum voltage regulation and changes in line voltage. No distortion or "motor boating."

Model "E" will fit all farm battery radio compartments.

PROVIDES: "A" — 2v at 750 m.a.
"B" — 135v at 25 m.a. tapped at 112v, 90v, and 67v. Screw type terminals.
Size: 2 1/4" x 4 7/8" x 6 1/8"
Shipping weight: approx. 4 lbs.

LIST
PRICE
\$18⁷⁵



STEP DOWN TRANSFORMERS

For quick, easy conversion of all standard radios and electrical appliances to 220 volt 50-60 cycle operation. Designed for continuous and reliable performance. 100% safety factor for momentary overloads. Vacuum

pressure wax impregnation. Primary connected to U. I. approved 6-ft. card and plug . . . secondary to female receptacle.

| Part No. | Wattage | Overall Dimensions | Mtg. Centers | Weight Net Lbs. | LIST |
|----------|---------|--------------------------|---------------|-----------------|---------|
| 8M182 | 80 | 2 5/8" x 3" x 3 1/8" | 2 x 2 | 4 1/2 | \$ 7.30 |
| 8M183 | 150 | 3 3/8" x 3 5/8" x 4 1/8" | 2 1/8 x 2 7/8 | 6 | 9.55 |
| 8M184* | 300 | 3 1/2" x 4 1/8" x 4 5/8" | 3 x 3 1/4 | 9 1/2 | 12.15 |
| 8M185* | 500 | 3 1/2" x 4 1/8" x 4 5/8" | 3 1/2 x 3 1/4 | 12 | 18.25 |
| 8M186* | 1000 | 4 1/2" x 4 3/8" x 5 3/8" | 3 1/2 x 4 1/2 | 20 1/2 | 35.50 |

PRIMARY 235 VOLTS — SECONDARY 117 VOLTS

*Primary has 3 taps at 200, 220 and 240 volts; Secondary 117 volts.

GENERAL TRANSFORMER CORPORATION

MAKERS OF BETTER ELECTRICAL PRODUCTS FOR 20 YEARS

ELECTROX "Master" BATTERY ELIMINATOR

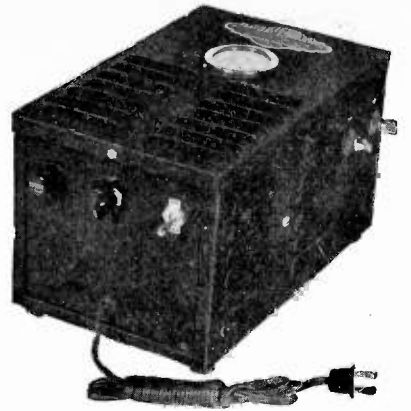
Today's Outstanding D.C. Power Supply Unit, the ELECTROX, Model AR-2, provides the ultimate in humless Direct Current for all-around servicing and demonstrating automobile radios and for all similar applications.

It will operate practically any type or size of automobile radio—whether push button or manually tuned.

It delivers 6 volts of Direct Current free of hum; (less than 3% ripple).

Its D.C. output is adjustable—smooth, humless Direct Current, at the correct voltage is delivered to the individual radio being operated.

Turning the rheostat adjusts the output to 6 volts for any load current between 3 and 15 amperes. This is indicated by the easily read voltmeter located on top of the case. Made by instrument craftsmen to give dependable, trouble-free service.



Model AR-2

Overall Dimensions—11½" long, 7¼" wide, 6⅞" high.

Weight—20 pounds.

A.C. Input—115 volts, 1 phase, 60 cycle.

D.C. Output—6 volts, at from 3 to 10 amperes, continuous rating; and from 10 to 15 amperes, intermittent; selectively determined. Negligible hum level, (less than 3% ripple).

Voltmeter—accurate; mounted on top of case for visibility.

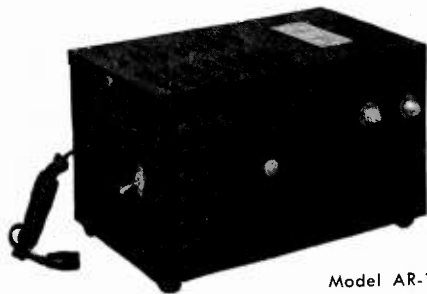
Cartridge-type Fuse—easily accessible from outside of case.

Toggle Switch—for A.C. current supply.

Long-life Selenium Rectifier; Condenser; Transformer; Filter Choke.

6 ft. A.C. cord and plug. Wing nut binding posts for connecting DC. leads. Rubber feet.

Steel case—attractive, metallic-brown finish.



Model AR-1

ELECTROX "Standard" BATTERY ELIMINATOR

ELECTROX, Model AR-1, is a practical, low-cost D.C. power-supply unit for servicing and demonstrating automobile radios. It is an exceptionally high-grade battery eliminator—compact, rugged, dependable. It delivers Direct Current with very low ripple component, but does not have the adjustable output features embodied in the ELECTROX "Master", Model AR-2.

Overall dimensions—11½" long by 7¼" wide by 6⅞" high. Weight—20 pounds.

A.C. input—115 volts, 1 phase, 60 cycle.

D.C. output—6 volts at approximately 15 amps, low ripple component.

Equipped with six foot A.C. cord and plug. Heavy binding posts are provided for connecting D.C. leads.

Toggle switch for "ON and OFF."

Cartridge type fuse—easily accessible from outside of case.

Equipment—Condenser, transformer, filter choke, Selenium rectifiers, rubber feet.

Finish—Attractive, well ventilated steel case.

ELECTROX BATTERY BOOSTERS

Designed for safely recharging single storage batteries—small, compact, light in weight but strong. Can be set on floor, shelf or counter or hung on wall. Under ordinary conditions, will recharge battery overnight.

Rectifiers are rugged, long-life Selenium. Ammeter is located in front of case and is easily read. A circuit breaker is supplied to protect against shorts and overloads, having a reset button conveniently located in the front of the case. Complete with 6 ft. A.C. cord and plug, and 5 ft. cord with battery clips for easy connection to batteries. Size: 6¼" x 6" x 7¼".

MODEL BX ELECTROX BATTERY BOOSTER, capacity 6 amperes.

MODEL CX ELECTROX BATTERY BOOSTER, capacity 10 amperes.

MODEL CX has 2/3 more charging capacity than the Model BX at less than 1/3 higher cost.



Model BX

RECTIFIER DIVISION

THE SCHAUER MACHINE CO. •

Carter

Genemotor

The oldest name in Rotary Power Supplies for Mobile Radio

THE ORIGINAL CARTER GENEMOTOR FOR POLICE-TAXICAB-MARINE AND SMALL AIRCRAFT MOBILE COMMUNICATIONS

OUTSTANDING FEATURES

SMALL SIZE —

Simplicity of design permits minimum mounting space.

RELIABILITY —

Designed to deliver over 100,000 ten second transmissions without servicing for most mobile applications.

INSTANT POWER —

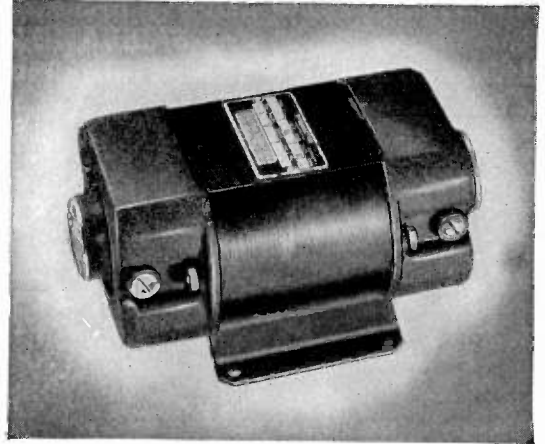
Full output in less than 3/10 seconds. No loss of messages due to Dynamotor sluggishness.

ARMATURE —

Finest design incorporates transformer laminations, triple insulated wire. Static and dynamically balanced. Diamond-Finished commutators.

VERSATILE —

Carter Genemotor available in any input voltage from 5.5 to 115 volt DC.



3" FRAME GENEMOTOR—7 1/8" LONG, 4 1/8" WIDE, 3 1/2" HIGH, WEIGHT 10 LBS.

SPECIFICATIONS

1 1/2" Frame Genemotor—

5-9/16" long, 4 1/8" wide, 3 1/2" high, weight 7 lbs.

| Code No. | DC Input Volts | DC Input Amps | DC Output Volts | DC Output MA | Duty | List Price |
|----------|----------------|---------------|-----------------|--------------|------|------------|
| 210A | 6 | 6 | 200 | 100 | Con. | \$44.00 |
| 251A | 6 | 7.9 | 250 | 100 | Con. | \$47.00 |
| 351A | 6 | 10.9 | 350 | 100 | Con. | \$49.00 |

2" Frame Genemotor—

6 1/8" long, 4 1/8" wide, 3 1/2" high, weight 8 lbs.

| | | | | | | |
|------|-----|------|-----|-----|------|---------|
| 355V | 5.5 | 18.0 | 350 | 150 | Con. | \$54.50 |
| 355A | 6.0 | 16.4 | 350 | 150 | Con. | \$52.00 |
| 415V | 5.5 | 20.0 | 400 | 150 | Con. | \$56.50 |
| 415A | 6.0 | 18.2 | 400 | 150 | Con. | \$54.00 |

3" Frame Genemotor (illustrated)—

7 1/8" long, 4 1/8" wide, 3 1/2" high, weight 10 lbs.

| | | | | | | |
|--------|------|------|-----|-----|------|---------|
| 420A | 6.0 | 23.4 | 400 | 200 | Con. | \$57.50 |
| 420V | 5.5 | 25 | 400 | 200 | Con. | \$60.00 |
| 425BS | 12.0 | 12.8 | 400 | 225 | Int. | \$59.50 |
| 450AS | 6.0 | 28 | 400 | 250 | Int. | \$58.00 |
| 4037AS | 6.0 | 41 | 400 | 375 | Int. | \$68.00 |
| 4228VS | 5.5 | 35 | 420 | 280 | Int. | \$64.50 |
| 520AS | 6.0 | 28 | 500 | 200 | Int. | \$59.00 |
| 520VS | 5.5 | 31 | 500 | 200 | Int. | \$61.50 |
| 5925AS | 6.0 | 42 | 590 | 250 | Int. | \$70.00 |
| 617V | 5.5 | 30 | 600 | 170 | Int. | \$60.00 |
| 620AS | 6.0 | 29.5 | 600 | 200 | Int. | \$64.50 |
| 624VS | 5.5 | 46 | 600 | 240 | Int. | \$67.80 |
| 650AS | 6.0 | 39.0 | 600 | 250 | Int. | \$67.80 |

The Carter Original Genemotor is the result of over 15 years continuous improvement of design, performance and dependability. Unequaled power for most Police, Marine, Taxicab, Forestry, and small aircraft two-way mobile radio equipment.

The 1 1/2" Frame Genemotors are the lowest cost Dynamotors available for mobile radio receiver operation. Equipped with oil-less bronze sleeve bearings, lubricated for the life of the unit. The 2" Frame Genemotors are also sleeve bearing equipped and are designed for mobile Public Address amplifier operation. The 3" Frame Genemotors fulfill the majority of mobile transmitter requirements. Ball bearing equipped, this model furnishes dependable power to more mobile equipment than any other Dynamotor Power Supply.

Average efficiency 60%, voltage regulation load to no load 25%, ripple 1% unfiltered.

FILTERS—STARTING RELAYS

FILTERS—

Any of the above Carter Genemotors can be furnished with complete filter mounted in metal box mounted below unit. Add "X" to end of code number and following prices. 1 1/2" and 2" Frame Genemotor models, \$24.00 list, 3" Frame Genemotor models, \$25.00 list.

STARTING RELAYS—

Heavy Duty solenoid contactor starting relays are available for 5.5, 6, 12, 24, 28, 32 and 115 volt DC input. Add "R" to end of code number and \$8.00 to list price (Relay draws 1.3 amps at 6 volts).

DUTY RATINGS—

Intermittent duty shall be considered 10 seconds on 20 seconds off. Continuous duty is considered 24 hours per day.

INPUT VOLTAGES—

Any Carter Genemotor can be supplied for special input voltages other than 6 volts. For 5.5, 12, 24, 28, 32 or 64 volt input add \$2.50 to list. For 115 volt DC input add \$3.50 to list.

MARINE IMPREGNATION—

Special Marine Impregnation available on all Genemotor models upon request, add \$2.00 to list price.

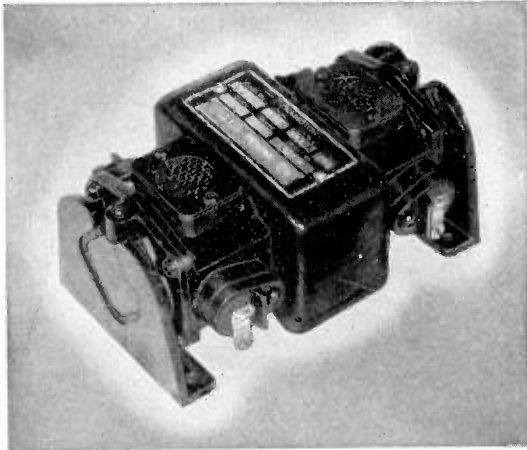
See replacement parts reference chart page for other special models, parts and prices.

Carter

Magmotor

The oldest name in Rotary Power Supplies for Mobile Radio

THE CARTER MAGMOTOR FOR POLICE-TAXICAB-MARINE AND AIRCRAFT RADIO RECEIVERS-GEOPHYSICAL AND RESEARCH ELECTRONIC EQUIPMENT



CARTER MAGMOTOR—5 $\frac{3}{8}$ " LONG, 3-11/16" WIDE,
2 $\frac{1}{2}$ " HIGH, WEIGHT 4 $\frac{3}{4}$ LBS.

special order in extended shaft models as AC or DC generators for 30 watt continuous duty and 50 watt intermittent duty. Special Geophysical models possess high humidity impregnation at no extra cost.

OUTSTANDING FEATURES

ALNICO FIELDS—

Eliminates field coils and increases efficiency.

SMALL SIZE—

Compact design permits minimum mounting space.

MOUNTING—

Rigid mounting furnished. Rubber shock mounting as illustrated available upon request at no extra cost.

FLEXIBILITY—

Extended shafts available for small power take off. Also available as an AC or DC external driven Generator.

CARTER MAGMOTOR is the ideal Rotary Power Supply for Police and Taxicab receivers. PM fields reduce size and increase efficiency. Normal brush life of 2000 to 3000 continuous running hours on models up to 25 watts output. Intermittent duty models are designed for transmitter operation as well as geophysical and research applications. Ball bearing equipped. Average efficiency of receiver types 50%, transmitter types to 65%. Output voltage regulation 20%. AC ripple 1% unfiltered. The Magmotor is also available on

CARTER MAGMOTOR

5 $\frac{3}{8}$ " long, 3-11/16" wide, 2 $\frac{1}{2}$ " high, weight 4 $\frac{3}{4}$ lbs.

| Code No. | Volts | DC Input | Amps | Volts | DC Output | MA | Duty | List Price |
|----------|-------|----------|------|-------|-----------|-----|------|------------|
| MV1865 | 5.5 | | 5 | 180 | | 65 | Con. | \$46.00 |
| MA250 | 6 | | 4.3 | 250 | | 50 | Con. | \$48.50 |
| MV280 | 5.5 | | 5.8 | 200 | | 80 | Con. | \$48.00 |
| MA265 | 6 | | 5.4 | 250 | | 65 | Con. | \$49.00 |
| MA251 | 6 | | 8 | 250 | | 100 | Con. | \$50.50 |
| MB251 | 12 | | 3.8 | 250 | | 100 | Con. | \$53.00 |
| MA301 | 6 | | 9.5 | 300 | | 100 | Con. | \$51.00 |
| MB301 | 12 | | 4.6 | 300 | | 100 | Con. | \$53.50 |
| MA351 | 6 | | 10.3 | 350 | | 100 | Con. | \$52.00 |
| MAS355 | 6 | | 15 | 350 | | 150 | Int. | \$53.00 |
| MAS320 | 6 | | 19 | 300 | | 200 | Int. | \$55.00 |
| MVS415 | 5.5 | | 19 | 400 | | 150 | Int. | \$57.50 |
| MBS415 | 12 | | 8.5 | 400 | | 150 | Int. | \$57.50 |

AC AND DC GENERATORS—

The Magmotor is available on special order for AC output up to 220 volts at 120 cycles. DC output up to 400 volts 30 watts continuous, 50 intermittent, depending upon armature speed.

EXTENDED SHAFTS—

Available on all Magmotor models add "S" to end of code number and \$5.00 to list.

FILTERS—

Available on all Magmotor models, Add "X" to code number and \$24.00 to list.

STARTING RELAYS—

Low power models seldom require starting relays because of low drain consumed. Heavy Duty solenoid contactor relays recommended on high output models. Add "R" to code number and \$8.00 to list for 6, 12, 24, 28, 32 or 115 volt DC relay. (6 volt relay draws 1.3 amps.)

INPUT VOLTAGES—

All Magmotors can be supplied for special input voltages other than 6 volts. For 5.5, 12, 24, 28, 32, 64 volt input add \$2.50 to list. For 115 volt DC input, add \$3.50 to list.

DUTY RATINGS—

Intermittent duty shall be considered 10 seconds on 20 seconds off. Continuous duty, 24 hours per day.

MARINE IMPREGNATION—

Available on all Magmotors upon request, add \$2.00 to list. Furnished on Geophysical models as standard feature.

MOUNTINGS—

Rigid type mountings furnished as standard base. Rubber shock mounts available upon request at no extra cost.

Carter

Super Dynamotor

The oldest name in Rotary Power Supplies for Mobile Radio

THE CARTER SUPER DYNAMOTOR FOR AIRCRAFT, MARINE, POLICE AND RAILROAD COMMUNICATIONS

OUTSTANDING FEATURES

ARMATURE —

Triple insulated windings. Additional silk insulation on models over 600 volts. Transformer grade laminations. Static & Dynamically balanced.

ONE PIECE FRAME —

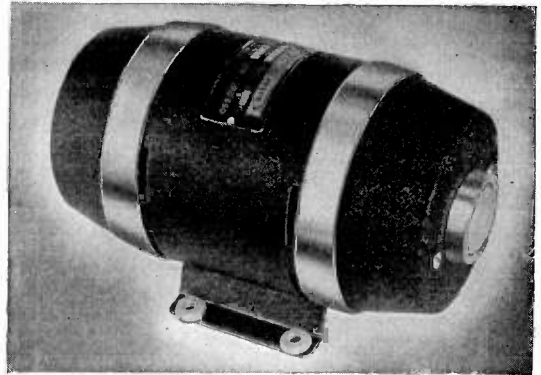
Exclusive cast frame simplifies construction and reduces losses.

COMMUTATORS —

Hard drawn silver alloy copper segments, diamond finished.

BRUSHES —

Engineered for long brush and commutator life, beryllium springs.



SUPER DYNAMOTOR—8¼" LONG, 4½" HIGH,
WEIGHT 11¾ LBS.

The Super Dynamotor is designed for larger mobile transmitters requiring 150 to 250 watts of Dynamotor power. Specified by leading Airlines, Marine and Police mobile communication manufacturers. Constructed of finest materials and designed to withstand heavy overloads. Triple insulated and baked to assure dependable operation at high voltages. Triple or Quadruple insulated silk covered windings are used above 600 volts output to afford maximum insulation. Average efficiency, 65%, voltage regulation 25% or less, 1% AC ripple unfiltered. Cast aluminum mounting base less grommets supplied.

SUPER DYNAMOTOR

8¼" long, 4½" wide, 4¾" high, weight 11¾ lbs.

| Code No. | Volts DC Input | Amps | Volts DC Output | MA | Duty | List Price |
|----------|----------------|------|-----------------|-----|------|------------|
| AF450 | 6 | 27 | 400 | 250 | Con. | \$63.00 |
| CFS550 | 32 | 13.5 | 500 | 500 | Int. | \$89.00 |
| CFS5540 | 32 | 10.9 | 550 | 400 | Int. | \$89.00 |
| CFS5550 | 32 | 14 | 550 | 500 | Int. | \$90.00 |
| DFS5550 | 115 | 4 | 550 | 500 | Int. | \$91.00 |
| VFS630 | 5.5 | 56 | 600 | 300 | Int. | \$86.50 |
| VFS627 | 5.5 | 50 | 600 | 270 | Int. | \$84.00 |
| BFS6530 | 12 | 26 | 650 | 300 | Int. | \$88.50 |
| CFS6530 | 32 | 9.5 | 650 | 300 | Int. | \$88.50 |
| VFS820 | 5.5 | 50 | 800 | 200 | Int. | \$90.00 |
| CFS820 | 32 | 9 | 800 | 200 | Int. | \$90.00 |

HIGH VOLTAGE SUPER DYNAMOTOR

10¼" long, 4½" wide, 4¾" high, weight 18 lbs.

| Code No. | Volts DC Input | Amps | Volts DC Output | MA | Duty | List Price |
|----------|----------------|------|-----------------|-----|------|------------|
| CS7550 | 32 | 18 | 750 | 500 | Int. | \$118.00 |
| DS7550 | 115 | 6 | 750 | 500 | Int. | \$119.00 |
| BS1150 | 12 | 19 | 1000 | 150 | Int. | \$100.00 |

FILTERS —

Available on all Super Dynamotors. Add "X" to Code Number and \$30.00 to list.

STARTING RELAYS —

Heavy duty solenoid contactor relays available for 12, 24, 28 and 32 and 115 volt DC input. Add "R" to Code Number and \$8.00 to list.

INPUT VOLTAGES —

Super Dynamotors available in 6 volt (if current

drawn permits) and 12, 24, 28, 32, 64 volt. Add \$2.50 to list. Add \$3.50 to list for 115 volt DC input.

DUTY RATINGS —

Intermittent duty shall be considered 10 seconds on, 20 seconds off. Continuous duty, 24 hours per day.

MARINE IMPREGNATION —

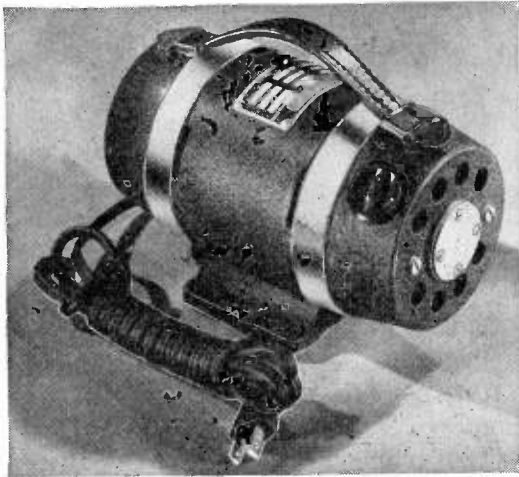
Available on all Super Dynamotors upon request, add \$2.00 to list. Furnished on Marine models as standard feature.

Carter

Super Converter

The oldest name in Rotary Power Supplies for Mobile Radio

CARTER SUPER CONVERTER—Changes DC to AC for Amplifiers - Radios - High Power Factor equipment



CARTER SUPER CONVERTER, LESS FILTER, 8 1/4" LONG, 4 1/2" WIDE, 5" HIGH, WEIGHT 13 LBS.

Wherever DC to AC Conversion is necessary, the Carter Super Converter provides an efficient and reliable source of AC power. Standard models are designed for high power factor, non-inductive AC loads such as amplifiers, radio receivers, (requires filtered converter), etc. Ball bearing equipped, 3600 RPM. CAUTION: Standard Super Converters will not satisfactorily operate inductive loads such as AC motors, low power factor transformers, etc.

Manually operated frequency controlled Converters available on special order. Maintain 60 cycle output with a + or - 10% input voltage fluctuation.

Special custom-matched Converters are also available for Wire and Tape Recorders, Sound Projectors, 7" Television Receivers, etc. See Carter Selector Chart on next page.

Overall efficiency 60% AC voltage regulation 15%.

HEAVY DUTY SUPER CONVERTER

10 1/4" long, 4 1/2" wide, 5" high, weight 19 lbs.

| Code No. | DC Input Volts | Input Amps | AC Output Volts | 60 cy. (Watts) | Type Duty | List Price |
|----------|----------------|------------|-----------------|----------------|-----------|------------|
| D1020C | 115 | 2.6 | 114 | 200 | Con. | \$74.00 |
| D1025C | 115 | 3.2 | 115 | 250 | Con. | 79.00 |
| H1020C | 64 | 4.8 | 115 | 200 | Con. | 76.50 |
| H1025C | 64 | 5.3 | 115 | 250 | Con. | 81.50 |
| C1020C | 32 | 10 | 115 | 200 | Con. | 76.50 |
| C1025C | 32 | 12 | 115 | 250 | Con. | 81.50 |
| J1020C | 28 | 12 | 115 | 200 | Con. | 76.50 |
| J1025C | 28 | 14 | 115 | 250 | Con. | 81.50 |
| E1020C | 24 | 15 | 115 | 200 | Con. | 76.50 |
| E1025C | 24 | 19 | 115 | 250 | Con. | 81.50 |
| B1020C | 12 | 30 | 115 | 200 | Con. | 76.50 |
| B1025C | 12 | 34 | 115 | 250 | Con. | 81.50 |

OUTSTANDING FEATURES

SMALL SIZE

Smallest Rotary Converter. Lightweight.

CARRYING HANDLE

Easier to carry, no more "juggling" with a hot unit.

OUTPUT RECEPTACLE

Convenient plug in AC outlet.

ARMATURE

Double wound, insulated ungrounded winding. Built-in cooling fan.

BALL BEARINGS

Sealed ball bearings require no lubrication or attention for life of unit.

SPECIFICATIONS

Carter Super Converter, 40 to 150 watt models
8 1/4" long, 4 1/2" wide, 5" high, weight 13 lbs.
High power factor, 85 to 100%. Less filter.

| Code No. | DC Input Volts | Input Amps | AC Output Volts | 60 cy. Volt-Amps (Watts) | Type Duty | List Price |
|----------|----------------|------------|-----------------|--------------------------|-----------|------------|
| D1040C | 115 | .7 | 115 | 40 | Con. | \$58.00 |
| D1060C | 115 | 1 | 115 | 60 | Con. | 58.50 |
| D1080C | 115 | 1.1 | 115 | 80 | Con. | 59.00 |
| D1010C | 115 | 1.7 | 115 | 100 | Con. | 60.00 |
| D1015C | 115 | 2.0 | 115 | 150 | Con. | 65.00 |
| H1040C | 64 | 1.5 | 115 | 40 | Con. | 60.50 |
| H1060C | 64 | 2 | 115 | 60 | Con. | 61.00 |
| H1080C | 64 | 2.2 | 115 | 80 | Con. | 61.50 |
| H1010C | 64 | 2.5 | 115 | 100 | Con. | 62.50 |
| H1015C | 64 | 3.4 | 115 | 150 | Con. | 67.50 |
| C1040C | 32 | 3 | 115 | 40 | Con. | 60.50 |
| C1060C | 32 | 4 | 115 | 60 | Con. | 61.00 |
| C1080C | 32 | 5 | 115 | 80 | Con. | 61.50 |
| C1010C | 32 | 5.5 | 115 | 100 | Con. | 62.50 |
| C1015C | 32 | 7.4 | 115 | 150 | Con. | 67.50 |
| J1040C | 28 | 3 | 115 | 40 | Con. | 60.50 |
| J1060C | 28 | 4 | 115 | 60 | Con. | 61.00 |
| J1080C | 28 | 5.2 | 115 | 80 | Con. | 61.50 |
| J1010C | 28 | 7 | 115 | 100 | Con. | 62.50 |
| J1015C | 28 | 9 | 115 | 150 | Con. | 67.50 |
| E1040C | 24 | 3.5 | 115 | 40 | Con. | 60.50 |
| E1060C | 24 | 4.3 | 115 | 60 | Con. | 61.00 |
| E1080C | 24 | 6 | 115 | 80 | Con. | 61.50 |
| E1010C | 24 | 8.3 | 115 | 100 | Con. | 62.50 |
| E1015C | 24 | 10 | 115 | 150 | Con. | 67.50 |
| B1040C | 12 | 8 | 115 | 40 | Con. | 60.50 |
| B1060C | 12 | 10 | 115 | 60 | Con. | 61.00 |
| B1080C | 12 | 14 | 115 | 80 | Con. | 61.50 |
| B1010C | 12 | 15 | 115 | 100 | Con. | 62.50 |
| B1015C | 12 | 23 | 115 | 150 | Con. | 67.50 |
| A1040C | 6 | 15 | 115 | 40 | Con. | 60.50 |
| A1060C | 6 | 19 | 115 | 60 | Con. | 61.00 |
| A1080C | 6 | 25 | 115 | 80 | Con. | 61.50 |
| A1010C | 6 | 27 | 115 | 100 | Con. | 62.50 |
| A1015C | 6 | 40 | 115 | 150 | Con. | 67.50 |

FILTERS—Available on all Super Converters. Eliminates Converter noise on most frequencies from 560 KC to 54 MC. Filter mounted in cast aluminum housing below Converter. Add "X" to Code Number and \$25.00 to list.

FREQUENCY CONTROL—Manually operated frequency control available on all models. Complete with vibrating reed meter, and rheostat control in aluminum housing. Add \$60.00 to list.

VOLTAGE-FREQUENCY—220 volt output or 50 cycle available on special order. Add \$5.00 to list for each.

See Carter Selector Chart for Wire and Tape recorder, 7" Television receivers, etc., custom-matched Converters.

Carter

Selector Chart

The oldest name in Rotary Power Supplies for Mobile Radio

Whenever DC to AC Rotary Converters are used to power wire or tape recorders and other similar recording equipment, output frequency must be perfectly matched to assure proper playback performance. All of the equipment listed has been laboratory-tested and Carter Converters custom-designed for each model. Use this Chart to select the Converter designed for each model. Prices of Selector Chart Converters are the same as standard models of similar code number.

Code letter "W" indicates a recorder type Converter.

Average efficiency 60%. Voltage regulation 15%. 70% Power Factor on wire and tape recorder models. Converters require NO FILTER, except when recorders have radio receivers.

FOR WIRE AND TAPE RECORDERS

| Equipment Make & Model | Super Converter DC Input & Price | | | Size Weight |
|--|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|
| | 6 Volt | 12 V. | 115 V. | |
| AirKing #750 Crescent C1000A Harrison Webster #7-78-178 Webster #80-180 Wilcox Gay Recordio #8U12 WireWay | A1060CW \$61.00 | B1060CW \$61.00 | D1060CW \$58.50 | 8¼" x 4½" x 5" Weight 13 lbs. |
| Soundsciber | A1060C \$61.00 | B1060C \$61.00 | D1060C \$58.50 | 8¼" x 4½" x 7½" Weight 15 lbs. |
| Pentron Astrasonic #748 Wiretone MR-6 | A1060CWX With filter \$86.00 | B1060CWX With filter \$86.00 | D1060CWX With filter \$83.50 | 8¼" x 4½" x 7½" Weight 15 lbs. |
| Brush BK411-414 Crestwood CP201 Peirce #55B, 260, 265, 270 RCA | A1080CW \$61.50 | B1080CW \$61.50 | D1080CW \$59.00 | 8¼" x 4½" x 5" Weight 13 lbs. |

HEAVY DUTY SUPER CONVERTER

| | | | | |
|---|---------------------|---------------------|--|--|
| Brush BK401 Brush BK403 Magnecord PT6-A-PT6P PT6-PS Webster-Racine Ekotape | A1010CW4 \$70.00 | B1010CW4 \$70.00 | D1010CW \$60.00 D1012CW \$60.50 | 6 & 12 volt 10¼" x 4½" x 5" Weight 19 lbs. 115 volt 8¼" x 4½" x 5" Weight 13 lbs. |
|---|---------------------|---------------------|--|--|

16 MM SOUND PROJECTORS

| | | | | |
|---|--|--|-------------------|----------------------------------|
| Ampro Premier 20 Bell & Howell #179 DeVry Super #16 Victor Liteweight Victor Triumph 60 | | | D1015C \$65.00 | 8¼" x 4½" x 5" Weight 13 lbs. |
|---|--|--|-------------------|----------------------------------|

PORTABLE TRANSCRIPTION PLAYERS

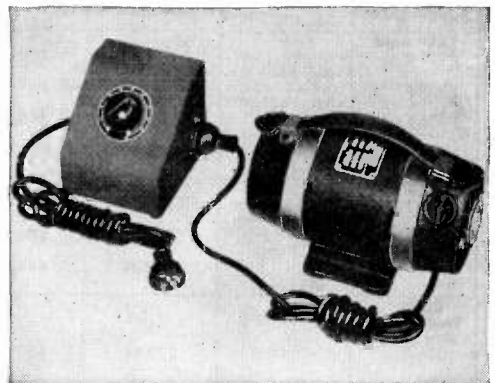
| | | | | |
|------------------------------------|--|--|----------------------------------|----------------------------------|
| Optron MC364D Victor Sonomaster | | | D1060C \$58.50 D1015C \$65.00 | 8¼" x 4½" x 5" Weight 13 lbs. |
|------------------------------------|--|--|----------------------------------|----------------------------------|

FOR 7" TELEVISION RECEIVERS

Popular 7" TV Receivers can now be operated from 6-12 or 115 Volt DC input with the new Carter TV Converter, designed especially for TV operation. Exclusive "Picture Control" assures steady "wave-free" reception from 110 to 135 volts DC input on 115 volt models. Clean Converter AC wave form requires NO filtering. Equal to AC reception.

SPECIFICATIONS

| TV Receiver Make & Model | Carter Converter DC Input | | |
|--|---------------------------|--------------------|--------------------|
| | 6 V. | 12 V. | 115 V. |
| Admiral Hallicrafters T-54-505 T-55-507 Motorola VT71, VT73 National TV-7-TV-7W and other similar 7" models 125 watt or less | A1010CT \$72.00 | B1010CT \$72.00 | D1010CT \$69.50 |



CARTER SUPER CONVERTER MODEL D1010CT
WITH PICTURE CONTROL, 8¼" LONG,
4½" WIDE, 5" HIGH. WEIGHT 15 LBS.

Carter

Replacement Parts Reference Chart

The oldest name in Rotary Power Supplies for Mobile Radio

REPLACEMENT PARTS REFERENCE CHART

Use this handy chart for ordering the correct CARTER Replacement Dynamotor or Replacement parts. All parts guaranteed to conform to original manufacturer's specifications.

| Mfg. Model No. | Frequency | Carter Model No. | List Price | Carter Armature No. | Armature List Price | Input Brushes & List Per Set | Output Brushes & List Per Set | Ball Bearings & List Per Each |
|---|------------------|-----------------------|------------|---------------------|---------------------|------------------------------|-------------------------------|-------------------------------|
| Doolittle PFY-2 PFY-2A PFY-3 PFY-3A PFY-12 | 30-40 MC-FM | 4726VS | \$62.50 | 233-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| | 152-162 MC-FM | 4726VS | \$62.50 | 233-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| Federal FT-125-B- 25AZ FT-110- 25AZ FT-110- 50AZ | 152-162 MC-FM | 4037AS | \$68.00 | 179-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| | 30-44 MC-FM | 5915AS | \$60.00 | 252-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| | 30-44 MC-FM | 5925AS | \$70.00 | 261-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| General Electric MC202 | 152-162 MC-FM | MVS415 Transmitter | \$57.50 | 360-4 | \$27.25 | No. 18 \$1.20 | No. 9 80c | 37KVL \$2.50 |
| | | MA251 Receiver | \$50.50 | 300-6 | \$26.00 | No. 23 \$1.20 | No. 9 80c | |
| | 30-44 MC-FM | 617V | \$60.00 | 279-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| | | 624VS | \$67.80 | 309-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| Harvey 505 506 542 | 30-44 MC-FM | 620VS | \$67.00 | 307-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| | 152-162 MC-FM | 620VS | \$67.00 | 307-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| | | | | | | | | |
| Kaar FM50X FM100X PTL-46X FM-175X | 30-44 MC-FM | 6175VS early model | \$62.00 | 278-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| | | 530VS late model | \$65.00 | 360-2 | \$40.00 | No. 30 \$1.20 | No. 14 80c | |
| | 1600-6000 KC | VSF820 | \$90.00 | 360-2 | \$40.00 | No. 30 \$1.20 | No. 14 80c | 38KVL \$2.50 |
| | 152-162 MC-FM | 4232VS | \$66.50 | 231-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| Mobile Communi- cations (Taxi- Talkie) MFM-25- 150 MFM-25- 150B | 150-170 MC-FM | 450AS | \$58.00 | 175-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| | 150-170 MC-FM | 520AS | \$59.00 | 208-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| Motorola P8050 P8051 P8051 P8317 | 30-44 MC-FM | 617V | \$60.00 | 279-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| | 30-44 MC-FM | 624VS | \$67.80 | 309-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| | 30-44 MC-FM | VSF630 | \$86.50 | 276-2 | \$40.00 | No. 30 \$1.20 | No. 14 80c | |
| | 152-162 MC-FM | 4228VS | \$64.50 | 207-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| RCA M1-7771A M1-31514 M1-7772A | 30-44 MC-FM | 6175VS | \$62.00 | 278-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| | 152-162 MC-FM | 3732VS | \$66.00 | 176-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | |
| | 30-44 MC-FM | VSF627 | \$84.00 | 274-2 | \$40.00 | No. 30 \$1.20 | No. 14 80c | |
| Radio Specialties Mfg. Co. 1096-1-1 | | 520AS | \$59.00 | 208-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |
| Wilcox Electric 358A | 152-162 MC-FM | 4228VS | \$64.50 | 207-2 | \$30.00 | No. 7 \$1.20 | No. 2 80c | 37KVL \$2.50 |

Above Prices Subject to Distributor's Discount.

RADIART VIBRATORS

RADIART AERIALS

RADIART VIPOWERS



LIST PRICES CURRENT RADIART VIBRATORS

Showing vibrator numbers formerly specified for these applications

5300 SERIES vibrator types are Standard Automotive and Household Non-Synchronous units. They are stocked by all RADIART Distributors who carry a complete line.

5400 SERIES vibrator types are Standard Automotive and Household Synchronous units. They are stocked by all RADIART Distributors who carry a complete line.

Light face numbers are discontinued types replaced by current models indicated. See your RADIART REPLACEMENT GUIDE for most complete listing published. Ask your jobber for your free copy!

| Type No. | Price | Type No. | Price | Type No. | Price | Type No. | Price | Type No. | Price | Type No. | Price |
|----------|--------|-------------|--------|------------------------------------|--------|--------------|--------|------------------|--------|-------------|--------|
| 5300 | \$4.45 | 5314 | \$4.45 | 5335 | \$4.45 | 5400 | \$7.00 | 5413 | \$7.00 | 5429 | \$8.30 |
| 5311M | | 5320P | 4.45 | 5334 | | 3850, 4501 | | 5413-4 | 7.00 | 4501, 4611 | |
| 5300-32 | 6.50 | 3417 | | 5342M | 3.75 | 5404 | 7.00 | 5415 | | 5431 | 7.75 |
| 3395 | | 5321 | 4.45 | 5340M | | 5406 | 7.00 | 5416 | | 5434 | 7.00 |
| 5301 | 4.45 | 5323P | 3.75 | 5343M | 5.75 | 4255II, 4414 | | 3283, 4502 | 8.30 | 5435 | 7.00 |
| 5327P | | 3320, 5322P | | 3815 | | 5407 | 7.00 | 5421 | 7.00 | 4318 | |
| 5303 | 4.45 | 5326P | 3.75 | 5363 | 5.75 | 5408 | 7.00 | 5422 | 7.75 | 5435-4 | 7.00 |
| 5339 | | 5325P | | 2819, 2867, 3227, 3313, 3375, 3442 | | 5409 | 7.00 | 4608 | | 5427 | |
| 5304 | 5.75 | 5328P-32 | 8.30 | 5366 | 5.75 | 5409-4 | 7.00 | 5425 | 8.30 | 5436 | 7.00 |
| 3786 | | 4319 | | 3223, 3226, 3263, 3356, 4320, 5312 | | 5410 | 7.00 | 3461, 4613, 4614 | | 5433 | |
| 5307 | 4.45 | 5331 | 4.45 | 5367-32 | 7.00 | 5411 | 7.00 | 5426 | 7.00 | 5437 | 7.00 |
| 5308 | 5.75 | 5333 | 4.45 | 3503, 4314 | | 5420P, 5428 | | | | 5438 | 7.00 |
| 5309 | 4.45 | | | | | | | | | 5440 | 7.75 |
| | | | | | | | | | | 3883 | |
| | | | | | | | | | | 5443 | \$7.00 |
| | | | | | | | | | | 3739 | |
| | | | | | | | | | | 5443-32 | 7.75 |
| | | | | | | | | | | 4404 | |
| | | | | | | | | | | 5454 | 7.00 |
| | | | | | | | | | | 5463 | 8.30 |
| | | | | | | | | | | 3308, 3315, | |
| | | | | | | | | | | 3317, 3848, | |
| | | | | | | | | | | 4415, 4500 | |
| | | | | | | | | | | 5464 | 8.30 |
| | | | | | | | | | | 3219 | |
| | | | | | | | | | | 5468 | 9.70 |
| | | | | | | | | | | 5469 | 8.90 |

5500 SERIES vibrator types are Special Application Non-Synchronous units. These are stocked by RADIART Distributors in accordance with local requirements. They are available for immediate shipment from the Factory. Order through your local distributor.

5600 SERIES vibrator types are Special Application Synchronous units. These are stocked by RADIART Distributors in accordance with local requirements. They are available for immediate shipment from the Factory. Order through your local distributor.

Light face numbers are discontinued types replaced by current models indicated. See your RADIART REPLACEMENT GUIDE for most complete listing published. Ask your jobber for your free copy!

| Type No. | Price | Type No. | Price | Type No. | Price | Type No. | Price | Type No. | Price | Type No. | Price |
|---------------------------|--------|----------|--------|------------------------|--------|---------------------------|--------|------------------|--------|------------|--------|
| 5503-12 | \$7.00 | 5506 | \$6.50 | 5515 | \$6.25 | 5604 | \$8.30 | 5605-32 | \$9.05 | 5607-32 | \$9.05 |
| 4253-12, 4256-12, 5300-12 | | 4256 | | 4253, 5313, 5500, 5503 | | 4505 | | 4255-32, 4258-32 | | 4257-32 | |
| 5503-32 | 7.00 | 5510 | 6.50 | 5516 | 6.25 | 5605 | 7.75 | 4257 | 7.75 | 5609-12 | 9.05 |
| 4253-32, 4256-32 | | 5511-12 | 7.00 | 4251H, 5501 | | 4255-12, 4258-12, 5406-12 | | 5607-12 | 9.05 | 5409-12 | |
| 5504P | 5.75 | 5513-12 | 7.00 | 5517-12 | 7.00 | | | 4257-12 | | 5610-12 | 7.00 |
| 5324P | | 5514-4 | 7.00 | 5518 | 6.25 | | | | | 5365, 5439 | 7.75 |
| | | | | | | | | | | 5439-12 | |
| | | | | | | | | | | 5610-12 | 9.05 |
| | | | | | | | | | | 5616 | 7.75 |
| | | | | | | | | | | 5616-12 | 9.05 |
| | | | | | | | | | | 5620 | 7.00 |
| | | | | | | | | | | 5614-12 | \$7.75 |
| | | | | | | | | | | 5454-12 | |
| | | | | | | | | | | 5615-12 | 7.75 |
| | | | | | | | | | | 5615-24 | 7.75 |
| | | | | | | | | | | 5616 | 7.75 |

CURRENT RADIART VIPOWERS

RADIART Engineering "KNOW HOW" and RADIART Dependability in an unique line of vibrator-power units. Completely Filtered—R.F. and A.F. Output lines filtered to

a hum level of 50 mv or less. Within the range of 160 KC to 20 MC. R.F. hash is held below 50 microvolts, even less at higher frequencies.

| VIPOWER MODEL | INPUT VOLTS D.C. (Nominal) | OUTPUT VOLTS D.C. (Nominal) | OUTPUT MILLIAMPS. | TYPE |
|---------------|----------------------------|-----------------------------|-------------------|-----------------|
| 451 | 6.0 or 12.0 | 250 or 180 | 60 or 40 | Synchronous |
| 452 | 6.0 | 300* | 100 | Synchronous |
| 452-12 | 12.0 | 300* | 100 | Synchronous |
| 453 | 6.0 | 300* | 100 | Non-Synchronous |
| 453-12 | 12.0 | 300* | 100 | Non-Synchronous |
| 454 | 6.0 | 300 | 200 | Non-Synchronous |
| 454-12 | 12.0 | 300 | 200 | Non-Synchronous |
| 455 | 6.0 | 400 | 150 | Non-Synchronous |
| 455-12 | 12.0 | 400 | 150 | Non-Synchronous |
| 456 | 6.0 or 110 V.A.C. 60 Cycle | 300* | 100 | Non-Synchronous |
| 457 | 6.0 | 150 | 40 | Synchronous |
| 4201-B2 | 6.0 | 250 | 50 | Non-Synchronous |

* NOTE:—Tapped at 275V, 250V, 225V.

RADIART VIBRATORS

RADIART AERIALS

RADIART VIPOWERS

VIBRATOR BASE DIAGRAM CROSS INDEX

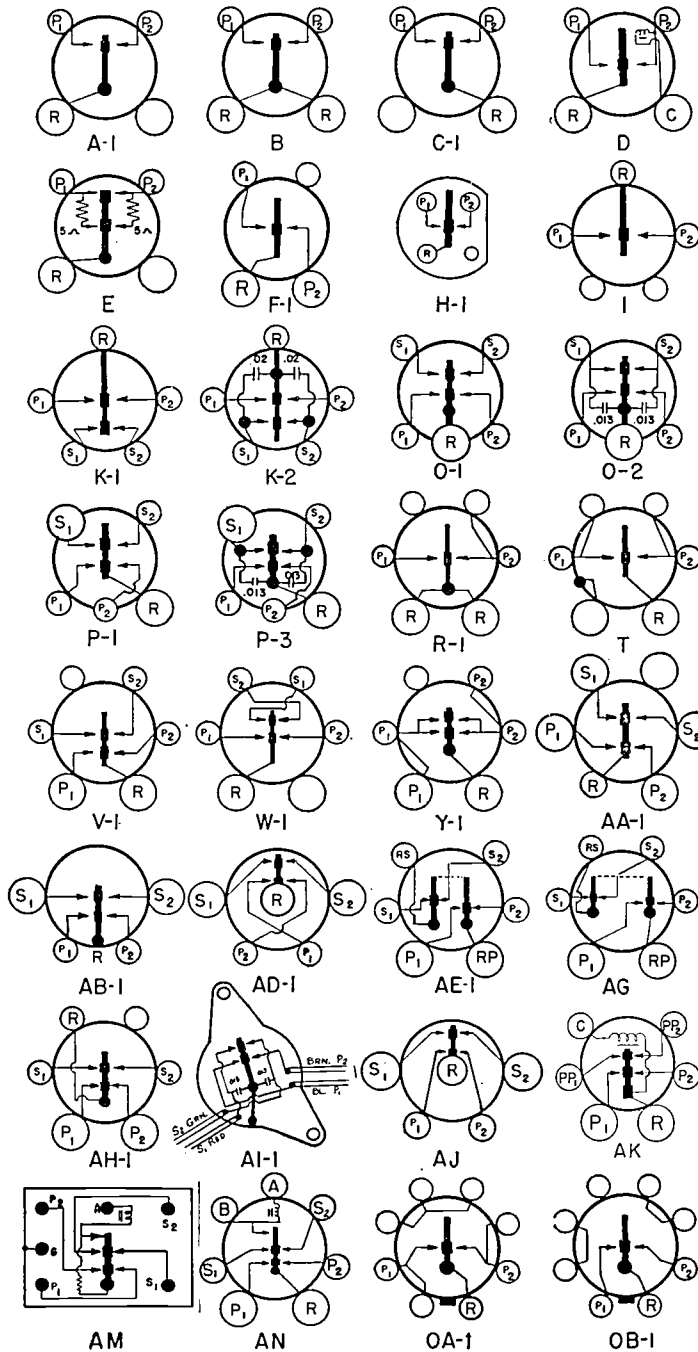


Symbols Used in Vibrator Base Diagrams

- A—A hot line into vibrator.
- B—By-pass for driving point.
- C—External coil lead in shunt vibrator.
- P₁—Primary contact, usually, but not necessarily connected to the magnet coil in shunt vibrators.
- PP₁—Dual primary contact, closed when P₁ is closed.
- P₂—Primary contact, may be the magnet coil connection instead of P₁.
- PP₂—Dual primary contact, closed when P₂ is closed.
- R—Vibrating reed in single-reed vibrators.
- RP—Primary vibrating reed in split-reed vibrators.
- RS—Secondary vibrating reed in split-reed vibrators.
- S₁—Secondary contact, closed when P₁ is closed.
- S₂—Secondary contact, closed when P₂ is closed.

* All dimensions given are in inches.
 † For further information as to Identifying Characteristics, see information given on each Vibrator type in Radiart Replacement Guide.

| Radiart Type No. | Base Diagram | Voltage | Frequency | Max. Load | Dia.* | Height |
|------------------|--------------|---------|-----------|-----------|-----------|--------|
| 5300 | A-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5300-32 | A-1 | 32 | 115 | 1.4 | 1 1/2 | 3 1/8 |
| 5301 | A-1 | 6 | 115 | 6 | 1 1/2 | 2 7/8 |
| 5303 | F-1 | 6 | 115 | 6 | 1 1/8 | 3 1/8 |
| 5304 | I | 6 | 115 | 6 | 1 1/4 | 3 1/8 |
| 5307 | A-1 | 6 | 150 | 6 | 1 1/2 | 3 1/8 |
| 5308 | E | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5309 | C-1 | 6 | 115 | 6 | 1 1/2 | 2 1/2 |
| 5314 | A-1 | 6 | 115 | 6 | 1 1/4 | 2 3/8 |
| 5320P | A-1 | 6 | 115 | 6 | 1 1/8 | 3 1/2 |
| 5321 | A-1 | 6 | 115 | 6 | 1 1/8 | 3 1/8 |
| 5323P | A-1 | 6 | 115 | 6 | 1 1/8 | 4 1/4 |
| 5326P | A-1 | 6 | 115 | 6 | 1 1/2 | 2 7/8 |
| 5328P32 | H-1 | 32 | 115 | 1.4 | 1 1/8 | 3 1/2 |
| 5331 | C-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5333 | F-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5335 | F-1 | 6 | 115 | 6 | 1 1/2 | 2 7/8 |
| 5342M | A-1 | 6 | 115 | 6 | 1 1/2 | 2 7/8 |
| 5343M | B | 6 | 115 | 6 | 1 1/8 | 4 1/2 |
| 5363 | LEADS | 6 | 115 | 4 | — | — |
| 5366 | R-1 | 6 | 115 | 6 | 1 1/2 | 2 7/8 |
| 5367-32 | T | 32 | 115 | 1.4 | 1 1/2 | 3 1/8 |
| 5400 | AB-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5404 | AH-1 | 6 | 180 | 6 | 1 1/2 | 3 1/8 |
| 5406 | AD-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5407 | AB-1 | 6 | 180 | 5 | 1 1/2 | 3 1/8 |
| 5408 | AB-1 | 6 | 140 | 6 | 1 1/2 | 2 7/8 |
| 5409 | K-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5409-4 | K-1 | 4 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5410 | O-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5411 | V-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5413 | K-1 | 6 | 115 | 6 | 1 1/8 | 3 1/4 |
| 5413-4 | K-1 | 4 | 115 | 6 | 1 1/8 | 3 1/2 |
| 5416 | K-2 | 6 | 115 | 6 | 1 1/8 | 4 1/2 |
| 5421 | V-1 | 6 | 115 | 6 | 1 1/8 | 3 1/2 |
| 5422 | AE-1 | 6 | 115 | 5 | 1 1/2 | 3 1/8 |
| 5425 | O-2 | 6 | 115 | 6 | 1 1/8 | 4 1/2 |
| 5426 | P-1 | 6 | 115 | 6 | 1 1/8 | 3 1/2 |
| 5429 | P-3 | 6 | 115 | 6 | 1 1/8 | 4 1/2 |
| 5431 | AG | 4 | 115 | 5 | 1 1/2 | 3 1/8 |
| 5434 | W-1 | 6 | 115 | 6 | 1 1/8 | 3 1/2 |
| 5435 | V-1 | 6 | 115 | 6 | 1 1/8 | 3 1/8 |
| 5435-4 | V-1 | 4 | 115 | 6 | 1 1/8 | 3 1/8 |
| 5436 | V-1 | 6 | 180 | 5 | 1 1/2 | 2 7/8 |
| 5437 | AB-1 | 6 | 180 | 5 | 1 1/8 | 2 7/8 |
| 5438 | AB-1 | 6 | 140 | 6 | 1 1/2 | 3 1/8 |
| 5440 | AB-1 | 6 | 115 | 6 | 1 1/8 | 4 1/2 |
| 5443 | AA-1 | 6 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5443-32 | AA-1 | 32 | 115 | 1.4 | 1 1/2 | 3 1/8 |
| 5454 | AD-1 | 6 | 115 | 6 | 1 1/2 | 2 7/8 |
| 5463 | LEADS | 6 | 115 | 6 | — | — |
| 5464 | AI-1 | 6 | 115 | 6 | 1 1/8 | 4 1/2 |
| 5468 | AM | 2 | 115 | 2 | 1 1/2 sq. | 2 1/8 |
| 5469 | AN | 2 | 115 | 2 | 1 1/8 | 2 1/8 |
| 5503-12 | A-1 | 12 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5503-32 | A-1 | 32 | 115 | 2.5 | 1 1/8 | 3 1/8 |
| 5504P | Y-1 | 6 | 115 | 6 | 1 1/8 | 3 1/2 |
| 5506 | D | 6 | 115 | 10 | 1 1/2 | 3 1/8 |
| 5510 | OA-1 | 6 | 115 | 10 | 1 1/2 | 3 1/8 |
| 5511-12 | OB-1 | 12 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5513-12 | AK | 12 | 180 | 3 | 1 1/2 | 3 1/8 |
| 5514-4 | A-1 | 4 | 180 | 5 | 1 1/2 | 2 7/8 |
| 5515 | A-1 | 6 | 115 | 10 | 1 1/2 | 3 1/8 |
| 5516 | A-1 | 6 | 115 | 10 | 1 1/2 | 3 1/8 |
| 5517-12 | V-1 | 12 | 180 | 3 | 1 1/2 | 3 1/8 |
| 5518 | V-1 | 6 | 115 | 10 | 1 1/2 | 2 7/8 |
| 5604 | K-2 | 6 | 115 | 6 | 1 1/8 | 4 1/2 |
| 5605 | AD-1 | 6 | 115 | 10 | 1 1/2 | 3 1/8 |
| 5605-12 | AD-1 | 12 | 115 | 6 | 1 1/2 | 3 1/8 |
| 5605-32 | AD-1 | 32 | 115 | 2.5 | 1 1/2 | 3 1/8 |
| 5607 | AJ | 6 | 180 | 5 | 1 1/8 | 2 3/4 |
| 5607-12 | AJ | 12 | 180 | 3 | 1 1/2 | 2 3/4 |
| 5607-32 | AJ | 32 | 180 | 1.4 | 1 1/8 | 2 3/4 |
| 5609-12 | K-1 | 12 | 115 | 3 | 1 1/2 | 3 1/8 |
| 5610 | V-1 | 6 | 115 | 6 | 1 1/4 | 3 1/8 |
| 5610-12 | V-1 | 12 | 115 | 3 | 1 1/4 | 3 1/8 |
| 5614-12 | AD-1 | 12 | 115 | 4 | 1 1/2 | 2 7/8 |
| 5615-12 | V-1 | 12 | 180 | 3 | 1 1/2 | 2 7/8 |
| 5615-24 | V-1 | 24 | 180 | 1.4 | 1 1/2 | 2 7/8 |
| 5616 | AJ | 6 | 180 | 5 | 1 1/2 | 2 7/8 |
| 5616-12 | AJ | 12 | 180 | 3 | 1 1/2 | 2 7/8 |
| 5620 | AB-1 | 6 | 115 | 6 | 1 1/2 | 2 7/8 |



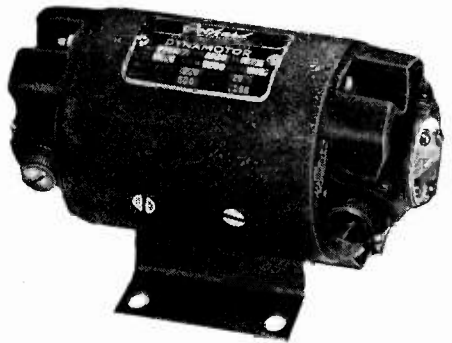
DYNAMOTORS *Gothard* CONVERTERS

GOTHARD DYNAMOTORS

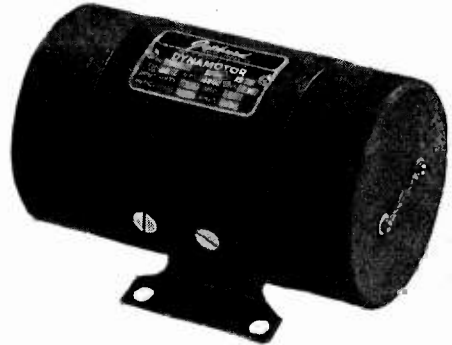
The GOTHARD Model "GP-26" is especially designed and built for Mobile Transmitter applications, intermittent duty. Length 7 $\frac{1}{4}$ ", Diam. 3 $\frac{1}{2}$ ", Height 4", Weight 8 $\frac{1}{4}$ lbs.

| INPUT | | OUTPUT | | | Approx. Effie. | App. Reg. | List Price |
|-------|-------|--------|-----|-------|----------------|-----------|------------|
| Volts | Amps. | Volts | MA | Watts | | | |
| 5.6 | 24 | 400 | 200 | 80 | 60% | 17% | \$77.00 |
| 5.6 | 26 | 600 | 150 | 90 | 61% | 18% | 79.50 |
| 5.6 | 29 | 400 | 250 | 100 | 61% | 19% | 79.50 |
| 5.6 | 31 | 620 | 170 | 105 | 61% | 20% | 79.50 |
| 5.6 | 33 | 500 | 225 | 112 | 61% | 21% | 79.50 |
| 5.6 | 34 | 420 | 280 | 118 | 62% | 22% | 79.50 |
| 6.0 | 40 | 400 | 375 | 150 | 63% | 25% | 82.00 |

Also supplied for 12, 14, 24, 28, or 32 Volt input. For continuous duty applications, Models GP-12, GP-17 and GP-26 cover wattage ratings from 20 to 80 Watts. Input voltages 6, 12, 24, or 32. GP-12: Length 5 $\frac{3}{4}$ ", Diam. 3 $\frac{1}{2}$ ", Height 4", Weight 5 $\frac{1}{4}$ lbs. GP-17: Length 6 $\frac{1}{4}$ ", Diam. 3 $\frac{1}{2}$ ", Height 4", Weight 6 lbs. GP Models have steel mounting bases; width 4 $\frac{1}{8}$ ".



MODEL "GP-26" DYNAMOTOR

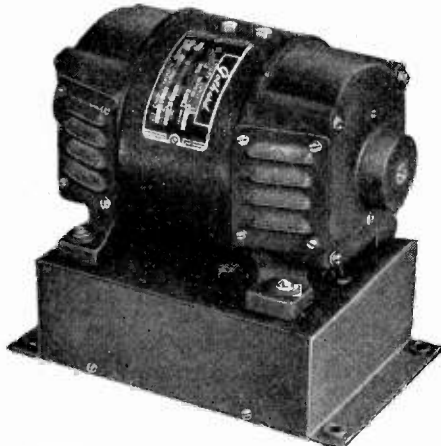


MODEL "SF-20" DYNAMOTOR

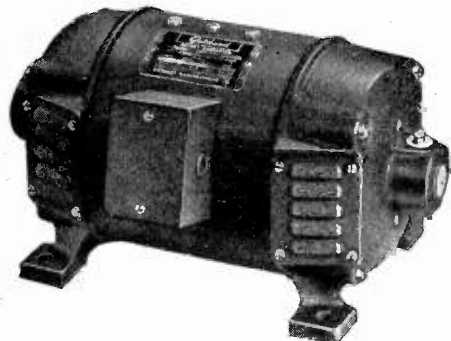
GOTHARD AIRCRAFT DYNAMOTORS

| Frame Size | INPUT | | OUTPUT | | List Price | Length | Diam. | Weight |
|------------|-------|-------|--------|-----|------------|-------------------|-------------------|-------------------|
| | Volts | Amps. | Volts | MA | | | | |
| DS-12 | 12 | 2.6 | 250 | 60 | \$64.00 | 4 $\frac{3}{4}$ " | 2 $\frac{3}{8}$ " | 2 $\frac{7}{8}$ " |
| DS-17 | 12 | 3.6 | 250 | 90 | 71.50 | 5 $\frac{1}{4}$ " | 2 $\frac{3}{8}$ " | 3 $\frac{7}{8}$ " |
| SP-12 | 12 | 4.0 | 250 | 100 | 80.00 | 6" | 3 $\frac{1}{2}$ " | 4 $\frac{3}{4}$ " |
| SP-17 | 12 | 5.2 | 300 | 125 | 87.00 | 6 $\frac{1}{2}$ " | 3 $\frac{1}{2}$ " | 5 $\frac{5}{8}$ " |
| SP-22 | 12 | 6.4 | 400 | 125 | 91.50 | 7" | 3 $\frac{1}{2}$ " | 6 $\frac{1}{2}$ " |
| SF-20 | 12 | 8.4 | 400 | 150 | 104.00 | 6 $\frac{3}{4}$ " | 4" | 8 $\frac{1}{2}$ " |
| SF-25 | 12 | 10. | 500 | 150 | 123.00 | 7 $\frac{1}{4}$ " | 4" | 9 $\frac{3}{4}$ " |

Above ratings are continuous duty with temperature of 40°C. Also supplied for 6, 14, 24, 28, or 32 Volt input. "SP" and "SF" dynamotors may be supplied in fan-ventilated construction as types "SPF" and "SFF". Prices upon request.



MODEL "AK-15" CONVERTER (With Filter)



MODEL "BK-35" CONVERTER (Less Filter)

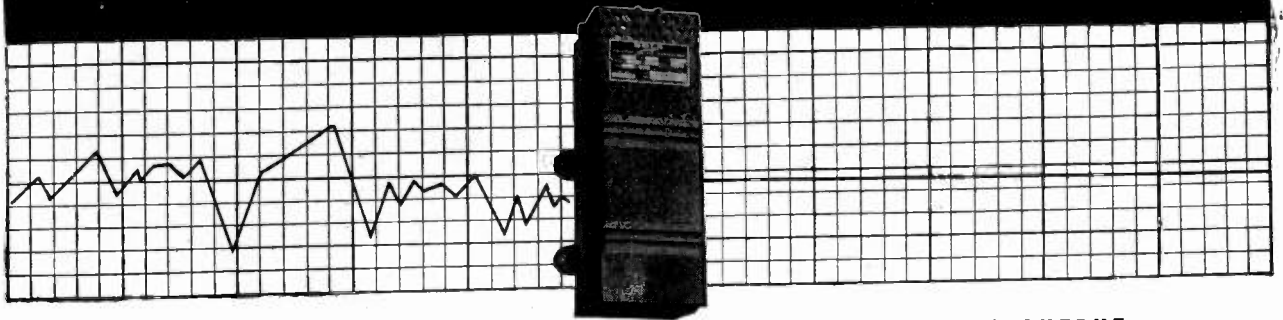
GOTHARD ROTARY CONVERTERS

TYPE "K" 3600 RPM (60 Cycle) • 3000 RPM (50 Cycle)

| Type No. | Frame Size | INPUT | | OUTPUT at 90% P.F. | | | App. Net Wt. | List Price |
|----------|------------|-------|-------|--------------------|--------------|--------------|--------------|-----------------|
| | | Volts | Amps. | A.C. Volts | VA at 60 cy. | VA at 50 cy. | | |
| 6K11 | AK-15 | 6 | 36 | 110 | 110 | 90 | 24 # 6 # | \$79.00 \$96.50 |
| 12K11 | AK-15 | 12 | 18 | 110 | 110 | 90 | 24 # 6 # | 79.00 96.50 |
| 12K16 | AK-25 | 12 | 24 | 110 | 160 | 125 | 29 # 6 # | 106.00 125.00 |
| 24K11 | AK-15 | 24 | 9 | 110 | 110 | 90 | 24 # 6 # | 79.00 96.50 |
| 24K20 | AK-25 | 24 | 14 | 110 | 200 | 160 | 29 # 6 # | 106.00 125.00 |
| 24K30 | BK-22 | 24 | 19.4 | 110 | 300 | 250 | 38 # 6 # | 137.50 154.50 |
| 24K50 | BK-35 | 24 | 30.4 | 110 | 500 | 400 | 45 # 6 # | 159.50 174.50 |
| 3K11 | AK-15 | 32 | 6.2 | 110 | 110 | 90 | 24 # 6 # | 79.00 96.50 |
| 3K20 | AK-25 | 32 | 10.4 | 110 | 200 | 160 | 29 # 6 # | 106.00 125.00 |
| 3K30 | BK-22 | 32 | 14.5 | 110 | 300 | 250 | 38 # 6 # | 137.50 154.50 |
| 3K50 | BK-35 | 32 | 22.0 | 110 | 500 | 400 | 45 # 6 # | 159.50 174.50 |
| 3K75 | CK-35 | 32 | 34 | 110 | 750 | 600 | 68 # 7 # | 193.00 213.00 |
| 4K11 | AK-15 | 48 | 4.4 | 110 | 110 | 90 | 24 # 6 # | 79.00 96.50 |
| 4K20 | AK-25 | 48 | 7.0 | 110 | 200 | 160 | 29 # 6 # | 106.00 125.00 |
| 4K30 | BK-22 | 48 | 9.7 | 110 | 300 | 250 | 38 # 6 # | 137.50 154.50 |
| 4K50 | BK-35 | 48 | 15.2 | 110 | 500 | 400 | 45 # 6 # | 159.50 174.50 |
| 4K75 | CK-35 | 48 | 22.7 | 110 | 750 | 600 | 68 # 7 # | 193.00 213.00 |
| 1K11 | AK-15 | 115 | 1.8 | 110 | 110 | 90 | 24 # 6 # | 79.00 96.50 |
| 1K20 | AK-25 | 115 | 3.0 | 110 | 200 | 160 | 29 # 6 # | 106.00 125.00 |
| 1K30 | BK-22 | 115 | 4.2 | 110 | 300 | 250 | 38 # 6 # | 137.50 154.50 |
| 1K50 | BK-35 | 115 | 6.6 | 110 | 500 | 400 | 45 # 6 # | 159.50 174.50 |
| 1K75 | CK-35 | 115 | 9.4 | 110 | 750 | 600 | 68 # 7 # | 193.00 213.00 |
| 1K100 | CK-45 | 115 | 12.4 | 110 | 1000 | 800 | 80 # 7 # | 249.00 269.00 |
| 2K11 | AK-15 | 230 | .9 | 110 | 110 | 90 | 24 # 6 # | 82.00 100.00 |
| 2K20 | AK-25 | 230 | 1.5 | 110 | 200 | 160 | 29 # 6 # | 109.00 128.00 |
| 2K30 | BK-22 | 230 | 2.1 | 110 | 300 | 250 | 38 # 6 # | 141.00 157.50 |
| 2K50 | BK-35 | 230 | 3.3 | 110 | 500 | 400 | 45 # 6 # | 163.00 179.50 |
| 2K75 | CK-35 | 230 | 4.7 | 110 | 750 | 600 | 68 # 7 # | 196.50 216.50 |
| 2K100 | CK-45 | 230 | 6.2 | 110 | 1000 | 800 | 80 # 7 # | 252.00 272.00 |

Also supplied for Marine Type Filter, 220 Volt A.O. Output, and automatic frequency control. Prices upon request.

Constant Voltage Transformers



FLUCTUATING LINE VOLTAGE

SOLA
CONSTANT
VOLTAGE
TRANSFORMER
TYPE 3



Constant Voltage Transformers are designed to provide a constant output voltage which is unaffected by changes in input voltage. Stabilization is instantaneous and automatic and there are no moving parts. Constant Voltage Transformers also provide isolation between input and output circuits. Low output voltage wave distortion and small size make these transformers especially attractive for use with all types of electronic equipment.

CONSTANT OUTPUT VOLTAGE

SOLA
CONSTANT
VOLTAGE
TRANSFORMER
TYPE 1



SOLA
CONSTANT
VOLTAGE
TRANSFORMER
TYPE 21

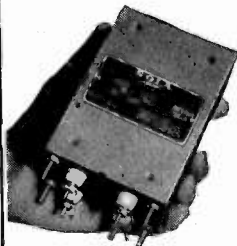


SOLA
CONSTANT
VOLTAGE
TRANSFORMER
TYPE 2



FOR CHASSIS MOUNTING

Output capacities up to 15 VA, with output at either 6.3 volts or 115 volts. Both types are immersion proof and capable of tropical service. Type 12 furnished with separate condenser. Prices include condenser.



TYPE 11



TYPE 12

SOLA
CONSTANT
VOLTAGE
TRANSFORMER
TYPE 22



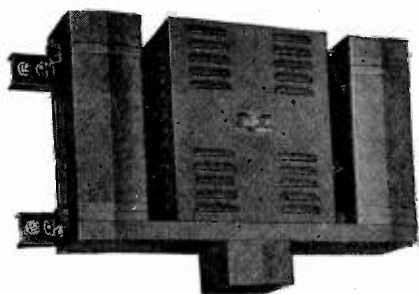
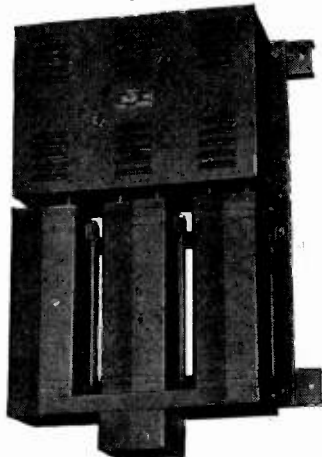
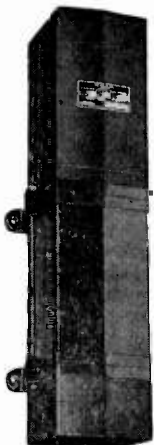
FOR COMPLETE CATALOG INFORMATION SEE OPPOSITE PAGE →

For complete operational data write for Bulletin 13CV-102

SOLA
CONSTANT
VOLTAGE
TRANSFORMER

← TYPE 4

TYPE 6 →



SOLA CONSTANT VOLTAGE
TRANSFORMERS
TYPE 5

TYPE 41 →



SOLA ELECTRIC COMPANY • 4633 WEST 16th STREET, CHICAGO 50, ILLINOIS

SOLA Constant Voltage Transformers

ELECTRICAL AND MECHANICAL SPECIFICATIONS

60 CYCLE

| Catalog Number | Output Capacity in VA | Input Volts | Output Volts | Dimensions in Inches | | | | | Approx. Shipping Weight | Price Each |
|----------------|-----------------------|-----------------|--------------|----------------------|-------------------|-------------------|-------------------|------------------|-------------------------|------------|
| | | | | A | B | C | E | F | | |
| TYPE 1 | | | | | | | | | | |
| 30488 | 15 | 95-125 | 6.0 | 5 $\frac{1}{16}$ | 2 $\frac{5}{8}$ | 3 $\frac{7}{16}$ | 5 $\frac{1}{16}$ | .... | 6 | \$ 15.00 |
| 30492 | 15 | 95-125 | 6.3 | 5 $\frac{1}{16}$ | 2 $\frac{5}{8}$ | 3 $\frac{7}{16}$ | 5 $\frac{1}{16}$ | .... | 6 | 15.00 |
| 30498 | 15 | 95-125 | 115.0 | 5 $\frac{1}{16}$ | 2 $\frac{5}{8}$ | 3 $\frac{7}{16}$ | 5 $\frac{1}{16}$ | .... | 6 | 15.00 |
| TYPE 2 | | | | | | | | | | |
| 30804 | 30 | 95-125 | 115.0 | 8 $\frac{9}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 7 $\frac{13}{16}$ | 2 $\frac{3}{8}$ | 12 | 17.00 |
| 30805 | 60 | 95-125 | 115.0 | 8 $\frac{13}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 8 $\frac{1}{16}$ | 2 $\frac{3}{8}$ | 13 | 24.00 |
| 30806 | 120 | 95-125 | 115.0 | 9 $\frac{1}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 8 $\frac{15}{16}$ | 2 $\frac{3}{8}$ | 17 | 32.00 |
| TYPE 3 | | | | | | | | | | |
| 30807 | 250 | 95-125 | 115.0 | 11 $\frac{5}{8}$ | 6 $\frac{15}{16}$ | 5 $\frac{5}{8}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | 30 | 52.00 |
| 30M807 | 250 | 190-250 | 115.0 | 11 $\frac{5}{8}$ | 6 $\frac{15}{16}$ | 5 $\frac{5}{8}$ | 3 $\frac{1}{4}$ | 6 $\frac{1}{8}$ | 30 | 52.00 |
| 30808 | 500 | 95-125 | 115.0 | 14 $\frac{1}{2}$ | 6 $\frac{15}{16}$ | 5 $\frac{5}{8}$ | 5 | 6 $\frac{1}{8}$ | 40 | 75.00 |
| 30M808 | 500 | 190-250 | 115.0 | 14 $\frac{1}{2}$ | 6 $\frac{15}{16}$ | 5 $\frac{5}{8}$ | 5 | 6 $\frac{1}{8}$ | 40 | 75.00 |
| TYPE 4 | | | | | | | | | | |
| 30809 | 1000 | 95-125 | 115.0 | 19 $\frac{1}{8}$ | 9 $\frac{1}{2}$ | 7 $\frac{7}{8}$ | 6 $\frac{3}{4}$ | 8 $\frac{1}{2}$ | 115 | 125.00 |
| 30M809 | 1000 | 190-250 | 115.0 | 19 $\frac{1}{8}$ | 9 $\frac{1}{2}$ | 7 $\frac{7}{8}$ | 6 $\frac{3}{4}$ | 8 $\frac{1}{2}$ | 115 | 125.00 |
| 30811 | 2000 | 95-125 | 115.0 | 31 $\frac{1}{8}$ | 9 $\frac{1}{2}$ | 7 $\frac{7}{8}$ | 12 $\frac{1}{4}$ | 8 $\frac{1}{2}$ | 205 | 225.00 |
| 30M811 | 2000 | 190-250 | 115.0 | 31 $\frac{1}{8}$ | 9 $\frac{1}{2}$ | 7 $\frac{7}{8}$ | 12 $\frac{1}{4}$ | 8 $\frac{1}{2}$ | 205 | 225.00 |
| TYPE 5 | | | | | | | | | | |
| 30M814 | 4000 | 95/190-125/250 | 115.0 | 21 $\frac{5}{8}$ | 42 $\frac{3}{4}$ | 9 $\frac{7}{16}$ | 12 $\frac{1}{4}$ | 40 $\frac{1}{4}$ | 520 | 380.00 |
| 30M815 | 5000 | 95/190-125/250 | 115.0 | 24 $\frac{1}{8}$ | 42 $\frac{3}{4}$ | 9 $\frac{7}{16}$ | 14 $\frac{3}{4}$ | 40 $\frac{1}{4}$ | 570 | 475.00 |
| 30M816 | 5000 | 95/190-125/250 | 230.0 | 24 $\frac{1}{8}$ | 42 $\frac{3}{4}$ | 9 $\frac{7}{16}$ | 14 $\frac{3}{4}$ | 40 $\frac{1}{4}$ | 570 | 475.00 |
| TYPE 6 | | | | | | | | | | |
| 30M817 | 10,000 | 190/380-250/500 | 115.0 | 48 | 35 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | 38 $\frac{7}{8}$ | 33 $\frac{1}{4}$ | 1025 | 930.00 |
| 30M818 | 10,000 | 190/380-250/500 | 230.0 | 48 | 35 $\frac{1}{4}$ | 9 $\frac{5}{8}$ | 38 $\frac{7}{8}$ | 33 $\frac{1}{4}$ | 1025 | 930.00 |
| TYPE 11 | | | | | | | | | | |
| 30785 | 17 | 95-125 | 6.3 | 5 $\frac{13}{16}$ | 3 $\frac{21}{32}$ | 2 $\frac{19}{32}$ | 3 | 2 | 5 $\frac{1}{2}$ | 20.00 |
| 30955 | 17 | 95-125 | 115.0 | 5 $\frac{13}{16}$ | 3 $\frac{21}{32}$ | 2 $\frac{19}{32}$ | 3 | 2 | 5 $\frac{1}{2}$ | 20.00 |
| TYPE 12 | | | | | | | | | | |
| 301002 | 15 | 95-125 | 6.3 | 5 $\frac{5}{16}$ | 3 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 3 | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 18.50 |
| 301003 | 15 | 95-125 | 115.0 | 5 $\frac{5}{16}$ | 3 $\frac{1}{2}$ | 2 $\frac{1}{4}$ | 3 | 1 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 18.50 |
| TYPE 21 | | | | | | | | | | |
| 30801 | 25 | 95-125 | 6.0 | 8 $\frac{7}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 7 $\frac{1}{16}$ | 2 $\frac{3}{8}$ | 12 | 16.00 |
| 30881 | 25 | 95-125 | 6.3 | 8 $\frac{7}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 7 $\frac{1}{16}$ | 2 $\frac{3}{8}$ | 12 | 16.00 |
| 30802 | 50 | 95-125 | 6.0 | 8 $\frac{13}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 8 $\frac{1}{16}$ | 2 $\frac{3}{8}$ | 13 | 22.00 |
| 30882 | 50 | 95-125 | 6.3 | 8 $\frac{13}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 8 $\frac{1}{16}$ | 2 $\frac{3}{8}$ | 13 | 22.00 |
| TYPE 22 | | | | | | | | | | |
| 30885 | 60 | 95-125 | 115.0 | 10 $\frac{5}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 9 $\frac{9}{16}$ | 2 $\frac{3}{8}$ | 13 | 24.00 |
| 30886 | 120 | 95-125 | 115.0 | 11 $\frac{3}{16}$ | 4 $\frac{3}{16}$ | 4 $\frac{3}{8}$ | 10 $\frac{1}{16}$ | 2 $\frac{3}{8}$ | 19 | 32.00 |
| TYPE 41 | | | | | | | | | | |
| 30M813 | 3000 | 95/190-125/250 | 115.0 | 44 $\frac{11}{16}$ | 10 | 9 $\frac{3}{8}$ | 42 $\frac{5}{8}$ | 8 $\frac{1}{2}$ | 325 | 300.00 |

DIMENSIONS— A: OVERALL LENGTH
B: OVERALL WIDTH

C: OVERALL HEIGHT
E&F: MOUNTING DIMENSIONS

PRICES SUBJECT TO CHANGE
WITHOUT NOTICE

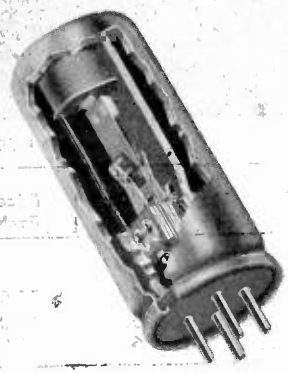
SOLA ELECTRIC COMPANY • 4633 WEST 16th STREET, CHICAGO 50, ILLINOIS

CORNELL



DUBILIER

CORNELL-DUBILIER VIBRATORS



FEATURES

- C-D designed electronic micrometric equipment removes guesswork in contact point setting and assures consistent high quality.
- Exclusive C-D pole piece design and armature weight results in a perfectly-balanced unit with greater efficiency.
- Exclusive C-D base mounting results in a full floating unit. That's why C-D vibrators last longer.
- Unit completely enclosed in new floating sock—an exclusive with C-D vibrators. Eliminates usual difficulties found in other vibrators.
- New stack design will take peak voltages of even 4,200 volts with no damage to vibrator.

| C = NON-SYNCHRONOUS | | | CS = NON-SYNCHRONOUS SPECIAL | | | D = SYNCHRONOUS | | |
|---------------------|------------|-----------|------------------------------|------------|-----------|-----------------|------------|-----------|
| Type No. | List Price | Net Price | Type No. | List Price | Net Price | Type No. | List Price | Net Price |
| C00 | \$4.45 | \$2.67 | CS03-12 | 7.00 | \$4.20 | D00 | 7.00 | \$4.20 |
| C00-32 | 6.50 | 3.90 | CS03-32 | 7.00 | 4.20 | D04 | 7.00 | 4.20 |
| C01 | 4.45 | 2.67 | CS04P | 5.75 | 3.45 | D06 | 7.00 | 4.20 |
| C03 | 4.45 | 2.67 | CS06 | 6.50 | 3.90 | D07 | 7.00 | 4.20 |
| C04 | 5.75 | 3.45 | CS10 | 6.50 | 3.90 | D08 | 7.00 | 4.20 |
| C07 | 4.45 | 2.67 | CS11-12 | 7.00 | 4.20 | D09 | 7.00 | 4.20 |
| C08 | 5.75 | 3.45 | CS15 | 6.25 | 3.75 | D09-4 | 7.00 | 4.20 |
| C09 | 4.45 | 2.67 | | | | D10 | 7.00 | 4.20 |
| C14 | 4.45 | 2.67 | | | | D11 | 7.00 | 4.20 |
| C20P | 4.45 | 2.67 | | | | D12 | 7.00 | 4.20 |
| C21 | 4.45 | 2.67 | | | | D13-4 | 7.00 | 4.20 |
| C23P | 3.75 | 2.25 | | | | D16 | 8.30 | 4.98 |
| C26P | 3.75 | 2.25 | | | | D21 | 7.00 | 4.20 |
| C28P-32 | 8.30 | 4.98 | | | | D22 | 7.75 | 4.65 |
| C31 | 4.45 | 2.67 | | | | D25 | 8.30 | 4.98 |
| C33 | 4.45 | 2.67 | | | | D26 | 7.00 | 4.20 |
| C36 | 4.45 | 2.67 | | | | D29 | 8.30 | 4.98 |
| C42M | 3.75 | 2.25 | | | | D31 | 7.75 | 4.65 |
| C43M | 5.75 | 3.45 | | | | D34 | 7.00 | 4.20 |
| C63 | 5.75 | 3.45 | | | | D35 | 7.00 | 4.20 |
| C66 | 5.75 | 3.45 | | | | D35-4 | 7.00 | 4.20 |
| C67-32 | 7.00 | 4.20 | | | | D36 | 7.00 | 4.20 |
| | | | | | | D37 | 7.00 | 4.20 |
| | | | | | | D38 | 7.00 | 4.20 |
| | | | | | | D40 | 7.75 | 4.65 |
| | | | | | | D43 | 7.00 | 4.20 |
| | | | | | | D43-32 | 7.75 | 4.65 |
| | | | | | | D54 | 7.00 | 4.20 |
| | | | | | | D63 | 8.30 | 4.98 |
| | | | | | | D64 | 8.30 | 4.98 |

DS = SYNCHRONOUS SPECIAL

| Type No. | List Price | Net Price |
|----------|------------|-----------|
| DS04 | 8.30 | \$4.98 |
| DS05 | 7.75 | 4.65 |
| DS05-12 | 9.05 | 5.43 |
| DS05-32 | 9.05 | 5.43 |
| DS07 | 7.75 | 4.65 |
| DS07-12 | 9.05 | 5.43 |
| DS07-32 | 9.05 | 5.43 |
| DS09-12 | 9.05 | 5.43 |
| DS10 | 7.00 | 4.20 |
| DS10-12 | 7.75 | 4.65 |
| DS14-12 | 7.75 | 4.65 |
| DS15-12 | 7.75 | 4.65 |
| DS15-24 | 7.75 | 4.65 |
| DS16 | 7.75 | 4.65 |
| DS16-12 | 9.05 | 5.43 |
| DS20 | 7.00 | 4.20 |

Mr. Serviceman: Never be out of these popular numbers. They constitute 88% of all your demand in the ratio shown.

| | | | | | |
|------|-----|------|-----|-----|----|
| C00 | 22% | C23P | 4% | D00 | 3% |
| C01 | 5% | C26P | 11% | D25 | 3% |
| C03 | 5% | C35 | 9% | D26 | 7% |
| C14 | 4% | C42 | 10% | D06 | 2% |
| C20P | 3% | | | | |

| Type No. | Voltage | Frequency | Maximum Load, Amps. | Diameter | Height in inches | Identifying Characteristic | Type No. | Voltage | Frequency | Maximum Load, Amps. | Diameter | Height in inches | Identifying Characteristic |
|----------|---------|-----------|---------------------|----------|------------------|---|----------|---------|-----------|---------------------|----------|------------------|--------------------------------|
| C 00 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Std. 4 pr. | C 66 | 6 | 115 | 6 | 1 1/2 | 2 1/2 | Used in 3 similar 1935 sets. |
| C 00-32 | 32 | 115 | 1.4 | 1 1/2 | 3 1/2 | 32-v. std. duty. | C 67-32 | 32 | 115 | 1.4 | 1 1/2 | 3 1/2 | For certain farm sets. |
| C 01 | 6 | 145 | 6 | 1 1/2 | 2 1/2 | Std. for low headroom. | D 11 | 6 | 115 | 4 | 1 1/2 | 3 1/2 | For general use. |
| C 07 | 6 | 150 | 6 | 1 1/2 | 3 1/2 | Spl. 150 cycles. | D 21 | 6 | 115 | 4 | 1 1/2 | 3 1/2 | Large for low vib. |
| C 14 | 6 | 115 | 6 | 1 1/2 | 2 1/2 | Spl. for some late model Zenith sets. | D 35 | 6 | 115 | 4 | 1 1/2 | 3 1/2 | Small diam., spl. use. |
| C 20P | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Philco dup repl. | D 35-4 | 4 | 115 | 4 | 1 1/2 | 3 1/2 | For 4 v. circuits. |
| C 21 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Delco dup repl. | D 38 | 6 | 180 | 5 | 1 1/2 | 2 1/2 | For high freq. circuits. |
| C 23P | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Philco dup repl. | DS 10 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | For motorcycle police duty. |
| C 28P | 6 | 115 | 6 | 1 1/2 | 2 1/2 | Spl. for Philco. | DS 10-12 | 12 | 115 | 3 | 1 1/2 | 3 1/2 | Aviation spl. |
| C 42M | 6 | 115 | 6 | 1 1/2 | 2 1/2 | Spl. for Motorola. | DS 15-12 | 12 | 180 | 3 | 1 1/2 | 2 1/2 | Aviation spl. |
| CS 15 | 6 | 115 | 10 | 1 1/2 | 3 1/2 | For high input current. | DS 15-24 | 24 | 180 | 1.5 | 1 1/2 | 2 1/2 | Aviation spl. |
| CS 16 | 6 | 115 | 10 | 1 1/2 | 3 1/2 | With handle, for Pol. V. powers. | D 34 | 6 | 115 | 4 | 1 1/2 | 3 1/2 | For certain 6 v. home sets. |
| CS 03-12 | 12 | 115 | 6 | 1 1/2 | 3 1/2 | 12 v. hvy. duty. | CS 04P | 6 | 115 | 6 | 1 1/2 | 3 1/2 | For certain Philco Police sets |
| CS 03-32 | 32 | 145 | 2.5 | 1 1/2 | 3 1/2 | 32 v. hvy. duty. | D 43 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Special base. |
| C 43M | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Ears to hold vibrator down. Motorola spl. | D 43-32 | 32 | 115 | 1.4 | 1 1/2 | 3 1/2 | Special base. |
| C 09 | 6 | 115 | 6 | 1 1/2 | 2 1/2 | For low headroom. | D 00 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Std. type rev. sync. |
| C 31 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | For normal applications. | D 07 | 6 | 180 | 5 | 1 1/2 | 3 1/2 | 180 cycles, normal size. |
| CS 06 | 6 | 115 | 10 | 1 1/2 | 3 1/2 | For certain V. powers. | D 08 | 6 | 140 | 6 | 1 1/2 | 2 1/2 | 140 cycles, short. |
| C 08 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Spl. 5 ohm resistors. | D 37 | 6 | 180 | 5 | 1 1/2 | 2 1/2 | 180 cycles, small. |
| C 03 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Dup. repl. 1 1/2" diam. | D 38 | 6 | 140 | 6 | 1 1/2 | 3 1/2 | 140 cycles, normal size. |
| C 33 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Dup. repl. with handle puller. | D 40 | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Large size. |
| C 35 | 6 | 115 | 6 | 1 1/2 | 2 1/2 | Replaces 1 1/2" dia. vibrators. | D 05 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | Std. type rev. sync. |
| C 28P-32 | 32 | 115 | 1.4 | 1 1/2 | 3 1/2 | Spl. plug on leads. | D 54 | 6 | 115 | 6 | 1 1/2 | 2 1/2 | For low headroom. |
| C 04 | 6 | 115 | 6 | 1 1/2 | 3 1/2 | For Setchell-Carlson Sets. | DS 05 | 6 | 115 | 10 | 1 1/2 | 3 1/2 | For heavy input current. |
| D 09 | 6 | 115 | 4 | 1 1/2 | 3 1/2 | Std. 6 v. size. | DS 05-12 | 12 | 115 | 6 | 1 1/2 | 3 1/2 | For heavy duty. |
| D 09-4 | 4 | 115 | 4 | 1 1/2 | 3 1/2 | Std. 4 v. size. | DS 05-32 | 32 | 115 | 2.5 | 1 1/2 | 3 1/2 | For heavy duty. |
| D 13 | 6 | 115 | 4 | 1 1/2 | 3 1/2 | Lge. for low vib. | DS 14-12 | 12 | 115 | 4 | 1 1/2 | 2 1/2 | Aviation special. |
| D 13-4 | 4 | 115 | 4 | 1 1/2 | 3 1/2 | Lge. for low vib. | D 22 | 6 | 115 | 4 | 1 1/2 | 3 1/2 | Split-reed type. |
| DS 09-12 | 12 | 120 | 3 | 1 1/2 | 3 1/2 | Aviation spl. | D 31 | 4 | 115 | 4 | 1 1/2 | 3 1/2 | 4 v. split-reed. |
| DS 04 | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Motorcycle pol. 2x.02 mfd con. | D 04 | 6 | 130 | 6 | 1 1/2 | 3 1/2 | Spl. base wiring. |
| D 16 | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Contains 2x.02 mfd. cond. | D 64 | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Contains 2x.013 mfd. cond. |
| D 25 | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Standard size. | DS 07 | 6 | 180 | 6 | 1 1/2 | 3 1/2 | 180 cycles. |
| D 29 | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Handle on top. | DS 07-12 | 12 | 180 | 4 | 1 1/2 | 3 1/2 | 180 cycles. |
| D 29 | 6 | 115 | 6 | 1 1/2 | 4 1/2 | Contains 2x.013 mfd. cond. | DS 07-32 | 32 | 180 | 2 | 1 1/2 | 3 1/2 | 180 cycles. |
| | | | | | | | CS 13-12 | 12 | 180 | 4 | 1 1/2 | 3 1/2 | Aviation spl. |
| | | | | | | | CS 10 | 6 | 115 | 10 | 1 1/2 | 3 1/2 | Spl. base wiring. |
| | | | | | | | CS 11-12 | 12 | 115 | 6 | 1 1/2 | 3 1/2 | Spl. base wiring. |

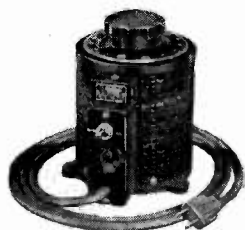
WARNING: Always check the Buffer Capacitors before installing a new vibrator: Failure to do so will void the guarantee. Always use C-D Buffer Capacitors for replacement.

There's a
POWERSTAT
 VARIABLE TRANSFORMER
 for *Your* application

PROTECT THE INVESTMENT IN YOUR EQUIPMENT

Recent advances in the electrical field have made more critical the need for precise voltage control equipment designed to protect and to operate highly sensitive and expensive apparatus. Whether the application involves the control of light, heat, sound, power or electronic equipment, there's a POWERSTAT variable transformer to suit every requirement.

STANDARD POWERSTAT VARIABLE TRANSFORMERS



TYPE 116



TYPE 1126



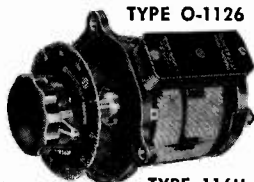
TYPE 20



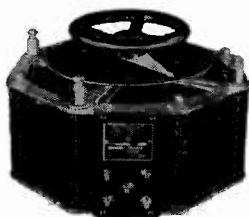
TYPE O-1126



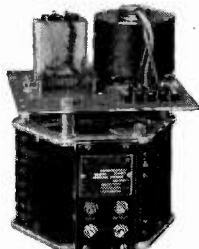
TYPE 2PF1126



TYPE 116U



TYPE 1256



TYPE MZ1126

POWERSTAT Variable Transformers

are auto-transformers of toroidal core design, with a movable brush-tap which rotates to deliver a continuously-adjustable output voltage from a-c power lines. Into each POWERSTAT are incorporated superior qualities of top electrical performance, rugged mechanical construction, compact design and durability. POWERSTATS feature zero waveform distortion, excellent regulation, conservative ratings, standard mountings, smooth control and high efficiency. POWERSTATS are available with motor drives for pushbutton remote control, or for use with automatic controllers. A variety of motor speeds is offered.

WRITE FOR COMPLETE
 INFORMATION
 100 MEADOW STREET
 BRISTOL, CONNECTICUT

| Line Voltage | Output Voltage | Maximum Output Amperes | Output KVA | Frequency | Type | |
|---------------------|------------------------------|------------------------|------------|-----------|----------|---------|
| Single Phase | | | | | | |
| 115 | 0-135 | 3.0 | 0.4 | *60 | 20 | |
| | 0-135 | 7.5 | 1.0 | 50/60 | 116 | |
| | 0-135 | 15.0 | 2.0 | 50/60 | 1126 | |
| | 0-135 | 30.0 | 4.0 | 50/60 | 1126-2P | |
| | 0-135 | 45.0 | 6.1 | 50/60 | 1156 | |
| | 0-135 | 90.0 | 12.1 | 50/60 | 1156-2P | |
| | 0-135 | 135.0 | 18.2 | 50/60 | 1156-3P | |
| | 0-135 | 180.0 | 24.3 | 50/60 | 1156-4P | |
| | 0-135 | 270.0 | 36.4 | 50/60 | 1156-6P | |
| | 0-270 | 3.0 | 0.35 | 50/60 | 216 | |
| | 0-270 | 9.0 | 1.05 | 50/60 | 1226 | |
| | 0-270 | 28.0 | 3.27 | 50/60 | 1256 | |
| | 230 | 0-270 | 3.0 | 0.81 | 50/60 | 216 |
| | | 0-270 | 7.5 | 2.0 | 50/60 | 116-2S |
| | | 0-270 | 9.0 | 2.4 | 50/60 | 1226 |
| 0-270 | | 15.0 | 4.0 | 50/60 | 1126-2S | |
| 0-270 | | 28.0 | 7.5 | 50/60 | 1256 | |
| 0-270 | | 45.0 | 12.1 | 50/60 | 1156-2S | |
| 0-270 | | 56.0 | 15.1 | 50/60 | 1256-2P | |
| 0-270 | | 84.0 | 22.7 | 50/60 | 1256-3P | |
| 0-270 | | 112.0 | 30.2 | 50/60 | 1256-4P | |
| 0-270 | | 168.0 | 45.0 | 50/60 | 1256-6P | |
| 0-540 | | 3.0 | 0.7 | 50/60 | 216-2S | |
| 0-540 | | 9.0 | 2.1 | 50/60 | 1226-2S | |
| 0-540 | | 28.0 | 6.5 | 50/60 | 1256-2S | |
| 440 | | 0-515 | 3.0 | 1.5 | 50/60 | 216-2S |
| | | 0-515 | 9.0 | 4.6 | 50/60 | 1226-2S |
| | 0-515 | 28.0 | 14.4 | 50/60 | 1256-2S | |
| | 0-515 | 56.0 | 28.8 | 50/60 | 1256-4PS | |
| | 0-515 | 84.0 | 43.2 | 50/60 | 1256-6PS | |
| | Three Phase | | | | | |
| 115 | 0-135 | 3.0 | 0.7 | *60 | 20-2D | |
| | 0-135 | 7.5 | 1.8 | 50/60 | 116-2D | |
| | 0-135 | 15.0 | 3.5 | 50/60 | 1126-2D | |
| | 0-135 | 45.0 | 10.5 | 50/60 | 1156-2D | |
| | 0-135 | 90.0 | 21.0 | 50/60 | 1156-4D | |
| | 0-135 | 135.0 | 31.6 | 50/60 | 1156-6D | |
| | 0-270 | 3.0 | 0.6 | 50/60 | 216-2D | |
| | 0-270 | 9.0 | 1.8 | 50/60 | 1226-2D | |
| | 0-270 | 28.0 | 5.7 | 50/60 | 1256-2D | |
| | 230 | 0-230 | 3.0 | 1.2 | 60 | 20L-3Y |
| | | 0-270 | 3.0 | 1.4 | 50/60 | 216-2D |
| | | 0-270 | 7.5 | 3.5 | *60 | 116-3Y |
| | | 0-270 | 9.0 | 4.2 | 50/60 | 1226-2D |
| | | 0-270 | 15.0 | 7.0 | *60 | 1126-3Y |
| | | 0-270 | 28.0 | 13.1 | 50/60 | 1256-2D |
| 0-230 | | 45.0 | 17.9 | 50/60 | 1156L-3Y | |
| 0-270 | | 56.0 | 26.2 | 50/60 | 1256-4D | |
| 0-270 | | 84.0 | 39.3 | 50/60 | 1256-6D | |
| 0-230 | | 90.0 | 35.8 | 50/60 | 1156L-6Y | |
| 0-540 | | 3.0 | 1.2 | *60 | 216-3Y | |
| 0-540 | | 9.0 | 3.6 | *60 | 1226-3Y | |
| 0-540 | | 28.0 | 11.3 | *60 | 1256-3Y | |
| 440 | | 0-515 | 3.0 | 2.7 | *60 | 216-3Y |
| | | 0-515 | 9.0 | 8.0 | *60 | 1226-3Y |
| | 0-515 | 28.0 | 25.0 | *60 | 1256-3Y | |
| | 0-515 | 56.0 | 50.0 | *60 | 1256-6Y | |
| | OIL-COOLED POWERSTATS | | | | | |
| 115 | 135 | 15.0 | 2.0 | 50/60 | 0-116 | |
| | | 30.0 | 4.0 | 50/60 | 0-1126 | |
| 230 | 270 | 6.0 | 1.6 | 50/60 | 0-216 | |
| | | 18.0 | 4.8 | 50/60 | 0-1226 | |

*When these POWERSTATS are "L" connected so that output does not exceed applied voltage, frequency range is 50/60 cycles.

THE SUPERIOR ELECTRIC CO.
 BRISTOL, CONNECTICUT



POWERSTAT VARIABLE TRANSFORMERS • VOLTBOX A-C POWER SUPPLIES • STABILINE VOLTAGE REGULATORS

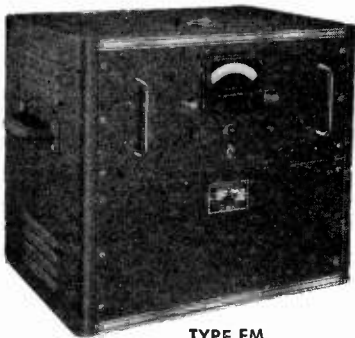
STABILINE AUTOMATIC VOLTAGE REGULATORS

DELIVER CONSTANT OUTPUT VOLTAGE REGARDLESS OF VARIATIONS IN INPUT VOLTAGE OR LOAD CURRENT

Two types of automatic voltage regulators are built by The Superior Electric Company, designed to maintain constant output voltage to large loads or as a means of obtaining a constant output voltage with zero waveform distortion. Type IE (instantaneous electronic) gives instant correction; Type EM (electromechanical), while not instantaneous, corrects faster than most types of constant voltage regulators.



TYPE IE51002
(Portable)



TYPE EM,

Because of differences in basic design, it's possible to order a STABILINE voltage regulator to meet the requirements of any problem in voltage regulation. If you have a particular problem, write The Superior Electric Company. Our staff of voltage control engineers is available for consultation — at no obligation to you. It's through this engineering service that we can best serve you; that we can design and build voltage control equipment second to none in the electrical industry.

INSTANTANEOUS ELECTRONIC STABILINES

Completely electronic voltage regulators, instantaneous in action; no moving parts; waveform distortion *never* exceeds 3% output voltage is stable within $\pm .1$ of 1% for wide line variations. Available in cabinet, portable or rack-mounting models.

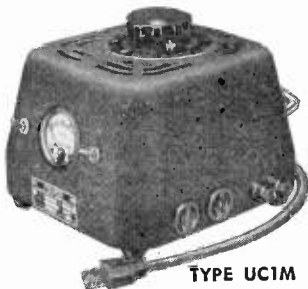
| Input Voltage Range | Output Voltage Range | RATINGS | | Load Power Factor Range | Rated Output KVA | Type |
|---------------------|----------------------|---------------------|-----------------------|-------------------------|------------------|---------|
| | | Frequency in Cycles | Load Range in Amperes | | | |
| 95-135 | 110-120 | 60 \pm 10% | 0-2.2 | .5 lagging | 0.25 | IE51002 |
| 95-135 | 110-120 | 60 \pm 10% | 0-4.4 | | 0.5 | IE51005 |
| 95-135 | 110-120 | 60 \pm 10% | 0-8.5 | | 1.0 | IE5101 |
| 95-135 | 110-120 | 60 \pm 10% | 0-43.5 | to | 5.0 | IE5105 |
| 195-255 | 220-240 | 60 \pm 10% | 0-11.0 | .9 leading | 2.5 | IE5202 |
| 95-135 | 110-120 | 50 \pm 10% | 0-8.5 | | 1.0 | IEL5101 |
| 195-255 | 220-240 | 50 \pm 10% | 0-4.5 | | 1.0 | IEL5201 |

ELECTROMECHANICAL STABILINES

Consist of an electronic detector circuit controlling a motor-driven POWERSTAT variable transformer. Features: zero waveform distortion, insensitivity to magnitude and power factor of load, no effect on system power factor, no critical adjustments, high efficiency, adjustable output voltage.

| Nominal Output Voltage | Input Voltage Range | Output Voltage Range | RATINGS | | Type |
|------------------------|---------------------|----------------------|--------------------------|------------|----------|
| | | | Output Current (Amperes) | Output KVA | |
| Single Phase | 115 | 95-135 | 20.0 | 2.3 | EM4102 |
| | | | 52.0 | 6.0 | EM4106 |
| | | | 130.0 | 15.0 | EM4115 |
| 208 | 180-230 | 200-215 | 32.5 | 6.7 | EM8207 |
| | | | 120.0 | 25.0 | EM8228 |
| 230 | 195-255 | 220-240 | 32.5 | 7.5 | EM4207 |
| | | | 120.0 | 27.5 | EM4228 |
| 440 | 380-500 | 420-460 | 15.0 | 6.6 | EM4407 |
| | | | 40.0 | 17.6 | EM4418 |
| Three Phase | 208 | 180-230 | 25.0 | 9.0 | EM8210Y |
| | | | 38.0 | 13.5 | EM8215Y |
| | | | 50.0 | 18.0 | EM8220Y |
| 230 | 195-255 | 220-240 | 113.0 | 40.0 | EM8245Y |
| | | | 145.0 | 52.0 | EM8258Y |
| | | | 25.0 | 10.0 | EM6210Y |
| 440 | 380-500 | 420-460 | 38.0 | 15.0 | EM6215Y |
| | | | 50.0 | 20.0 | EM6220Y |
| | | | 113.0 | 45.0 | EM6245Y |
| 400-480 | 420-460 | 420-460 | 145.0 | 58.0 | EM6258Y |
| | | | 16.0 | 12.0 | EM6412Y |
| | | | 22.0 | 17.0 | EM6417Y |
| 100.0 | 131.0 | 100.0 | 33.0 | 25.0 | EM6425Y |
| | | | 66.0 | 50.0 | EM6450Y |
| | | | 100.0 | 75.0 | EM6475Y |
| | | | 131.0 | 100.0 | EM64100Y |

VOLTBOX A-C POWER SUPPLIES: Compact, portable sources of variable a-c voltage for use in laboratory, inspection and maintenance sections and in transmitter workrooms. Two types available: UC1M — 115V, 50/60 cycle, 1 phase, output 0-135V, 7.5 amps, 1KVA, UC2M—230V, 50/60 cyce, 1 phase, output 0-270V, 3.0 amps, 810VA.

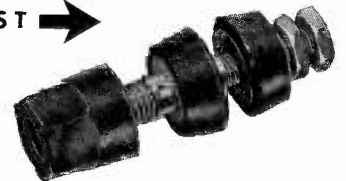


TYPE UC1M

NEW 5-WAY BINDING POST

5 methods of connection. Complete insulation, 30 amp. current capacity, 1000V working voltage. Captive head for convenience. Red or black color. 5 connections:

1. PERMANENT CLAMPING. 2. SPADE LUG.
3. PLUG-IN FOR BANANA PLUG. 4. LOOPING AND CLAMPING. 5. CLIP-LEAD.



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POWERSTAT VARIABLE TRANSFORMERS • VOLTBOX A-C POWER SUPPLIES • STABILINE VOLTAGE REGULATORS



TRANSFORMERS

For Electronic Equipment

**FOR PROMPT,
SATISFACTORY
RESULTS . . .
BRING YOUR
TRANSFORMERS
PROBLEMS TO GE**

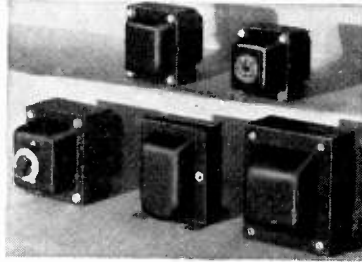
Plate
Filament
Plate and Filament
Filter Reactors
Pulse
Audio
Vertical Output
Deflection Yokes
Focus Coils

in

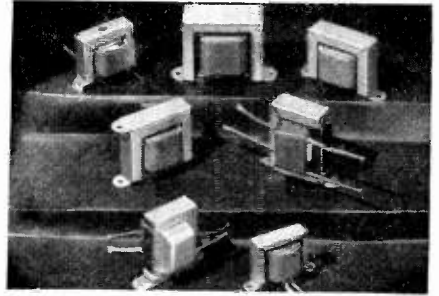
Core-and-coil
Permafil
Compound-filled
and Hermetic
Construction

for

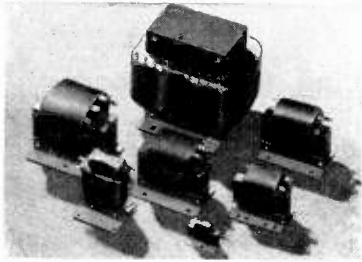
Radio
Radar
Television
and Similar Equipment,
Both Receiver and
Transmitter



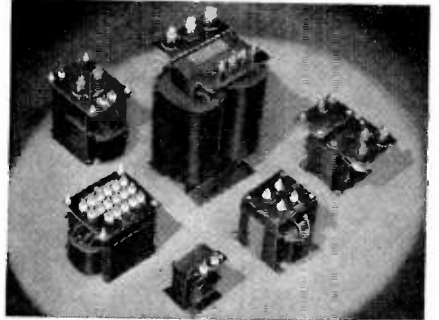
Radio receiver power transformer



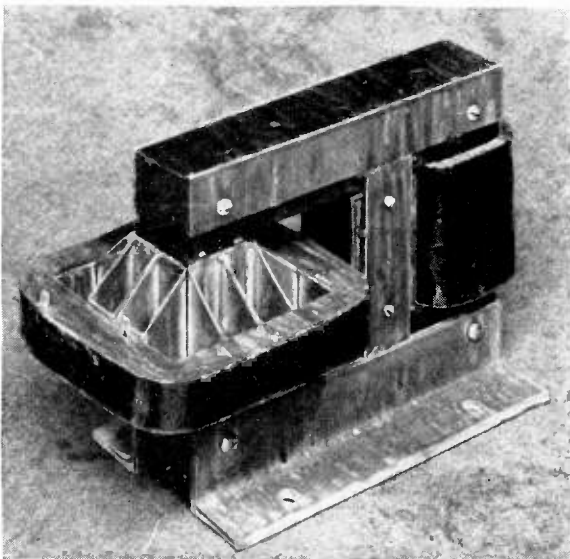
Output transformers and filter chokes



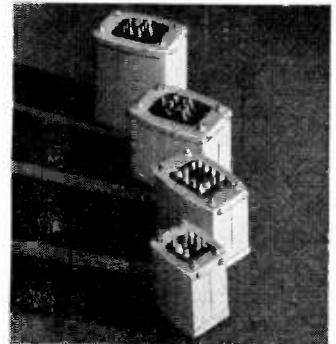
Permafil Type transformer



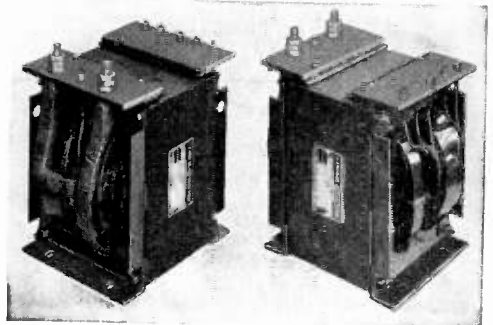
Core and coil type units



Special magnetron filament transformer



Standard compound filled transformers



Heavy duty, high reactance filament transformers

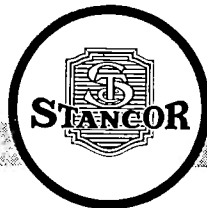
Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER

TRANSFORMERS

REACTORS POWER PACKS TRANSMITTERS



The Stancor units listed on the following pages are representative of the most complete stock in the industry available for 48 hour delivery from Stancor distributors. In addition to maintaining the Stancor stock line of more than 400 part numbers, a large part of Stancor's

modern production facilities is devoted to the fabrication of special design components for leading manufacturers of radio, television and other electronic equipment. Your inquiries are invited. Quotations will be furnished promptly.

STANCOR TELEVISION COMPONENTS

VERTICAL DEFLECTION OUTPUT TRANSFORMER

Stancor No. A-8115. Interchangeable with RCA type 204T2. Designed for use in typical vertical deflection circuits to couple the vertical output tube to the deflection yoke. May be used in conjunction with RCA type 201D1 yoke and kinescopes such as RCA types 10BP4, 7DP4 and 5TP4. Type N mounting. Dimensions: $3\frac{1}{2}''$ H x $2\frac{1}{2}''$ W x $2\frac{1}{2}''$ D. Mtg. ctrs., $1\frac{1}{2}''$ x $2''$. Shpg. wt., 2.5 lbs. **List Price \$6.00.**

Stancor No. A-8116. Interchangeable with RCA type 204T9. Designed to couple the vertical output tube to the deflection yoke in typical deflection circuits. For use in conjunction with RCA type 201D1 deflection yoke and kinescopes such as RCA types 10BP4 and 16AP4. Type A mounting. Dimensions: $3\frac{1}{2}''$ H x $2\frac{1}{2}''$ W x $2\frac{1}{4}''$ D. Mtg. ctrs., $1\frac{1}{2}''$ x $1\frac{3}{4}''$. Shpg. wt., 2.2 lbs. **List Price \$4.40.**

VERTICAL BLOCKING-OSCILLATOR TRANSFORMER

Stancor No. A-8111. For use in vertical blocking-oscillator circuits for generation of 60 cps. required to drive grids of vertical discharge tubes. Type A mounting. Dimensions: $1\frac{1}{2}''$ H x $2\frac{1}{2}''$ W x $1\frac{1}{2}''$ D. Mtg. ctrs., $2''$. Shpg. wt., 0.4 lbs. **List Price \$2.50.**

Stancor No. A-8121. Interchangeable with RCA type 208T2. For use in vertical blocking-oscillator circuits for generation of 60 cps. required to drive grids of vertical discharge tubes. Type TD mounting. Dimensions: $1\frac{3}{4}''$ H x $2\frac{3}{4}''$ W x $1\frac{1}{2}''$ D. Mtg. ctrs., $1\frac{1}{8}''$. Shpg. wt., 0.4 lbs. **List Price \$3.20.**

HORIZONTAL DEFLECTION OUTPUT AND HV TRANSFORMER

Stancor No. A-8117. For replacement of RCA type 211T1. For use with RCA type 201D1 deflection yoke and kinescopes such as RCA types 7DP4 and 10BP4. Used with one 6BG6-G deflection amplifier, one 6AS7-G or one 5V4-G scanning booster and one 1B3-GT/8016 pulse rectifier (may require filament resistor, adjusted for proper voltage). Auto-transformer primary provides voltage for pulse rectifier supplying kinescope anode potential. Filament winding for pulse rectifier included. Tap on secondary permits connection of width control. Powdered iron core. Max. current rating (RMS): Pri. (1-2), 80 ma; Sec. (4-6), 250 ma. DC resistance @ 25° C (Approx): Pri. (1-2), 107 ohms; (2-3), 200 ohms; Sec. (4-6), 10.1 ohms. Turns: Pri. (1-2), 1,000; (2-3), 600; Sec. (4-6), 315; (5-6), 15. Type HT mounting. Dimensions: $4\frac{1}{2}''$ W x $3\frac{3}{4}''$ D x $2\frac{3}{8}''$ H. Shpg. wt., 1.7 lbs. **List Price \$10.10.**

Stancor No. A-8118. For use with one 6BG6-G deflection amplifier, one 6AS7-G or one 5V4-G scanning booster and one 1B3-GT/8016 pulse rectifier (may require filament resistor, adjusted for proper voltage). Use with Stancor DV-1 deflection yoke or equivalent and direct viewing kinescopes, such as RCA types 7DP4 and 10BP4. Max. current rating (RMS): Pri. (1-2), 100 ma; Sec. (4-6), 250 ma. DC resistance @ 25° C (Approx): Pri. (1-2), 160 ohms; (2-3), 130 ohms; Sec. (4-6), 12.5 ohms. Turns: Pri. (1-2), 1100; (2-3), 660; Sec. (4-6), 345; (5-6), 15. Type HO mounting. Dimensions: $3''$ W x $3\frac{3}{4}''$ H x $2\frac{1}{4}''$ D. Shpg. wt., 1.2 lbs. **List Price \$9.75.**

HORIZONTAL BLOCKING-OSCILLATOR TRANSFORMER

Stancor No. A-8110. Interchangeable with RCA type 208T3. Vacuum wax impregnation for quiet operation. Type A mounting. Dimensions: $1\frac{1}{2}''$ H x $2\frac{1}{2}''$ W x $1\frac{1}{2}''$ D. Mtg. ctrs., $2''$. Shpg. wt., 0.4 lbs. **List Price \$2.75.**

Stancor No. A-8120. Interchangeable with RCA type 208T1. Generates 15,750 cps. pulse required to drive grids of horizontal discharge tubes. Type TD mounting. Dimensions: $1\frac{3}{4}''$ H x $2\frac{3}{4}''$ W x $1\frac{1}{2}''$ D. Mtg. ctrs., $1\frac{1}{8}''$. Shpg. wt., 0.4 lbs. **List Price \$3.90.**

PLATE AND FILAMENT TRANSFORMER

Stancor No. P-8150. For use with type 2X2 rectifier tubes in a conventional half-wave circuit to obtain high voltage supply. Contains filament winding for the rectifier tube. H.V. Secondary: AC volts, 1550; DC ma., 1.5. Rec. filament: 2.5 v—1.75 amp. Type TD mounting. Dimensions: $3\frac{1}{2}''$ H x $3''$ W x $2\frac{1}{2}''$ D. Mtg. ctrs., $2\frac{3}{8}''$ x $1\frac{1}{2}''$. Shpg. wt., 1.8 lbs. **List Price \$9.75.**

Stancor No. P-8151. For use with type 2X2 rectifier tube in a conventional half-wave circuit to obtain high voltage supply. Contains an extra 2.5 volt filament winding. H.V. Secondary: AC volts, 2400; DC ma., 5.0. Rec. filament: 2.5 v—2 amp. Filament # 2: 2.5 v—2 amp. Type C mounting. Dimensions: $4\frac{3}{8}''$ H x $3\frac{3}{8}''$ W x $3\frac{3}{8}''$ D. Mtg. ctrs., $2\frac{3}{4}''$ x $2\frac{1}{8}''$. Shpg. wt., 6.4 lbs. **List Price \$14.80.**

Stancor No. P-8152. For replacement of RCA type 201T6, used in RCA model 630TS receiver. High voltage winding designed to deliver 405 volts DC at 295 ma into an 80 mfd condenser input filter following two type 5U4-G tubes in a full-wave rectifier circuit. Copper shorting band reduces image distortion to a minimum by cutting down external

magnetic field. Plate supply: AC volts, 365-0-365; DC ma, 295. Rectifier filament: 5.0 v—6.0 amp. Auxiliary filaments: 5.0 v—2.0 amp., 12.6 v CT—5.0 amp. Type M mounting. Dimensions: $3\frac{3}{8}''$ W x $4\frac{5}{8}''$ L x $6\frac{1}{8}''$ H. Mtg. ctrs., $3\frac{3}{8}''$ x $4\frac{1}{8}''$. Shpg. wt., 16.5 lbs. **List Price \$26.25.**

Stancor No. P-8153. For replacement in RCA model 721TS receiver. High voltage winding delivers 360 volts at 250 ma into an 80 mfd condenser input filter following a type 5U4-G tube in a full-wave rectifier circuit. Copper shorting band around core minimizes image distortion by reduction of external magnetic field. Plate supply: AC volts, 365-0-365; DC ma, 250. Rectifier filament: 5.0 v—3.0 amp. Auxiliary filaments: 6.3 v—6.0 amp, 6.3 v—8 amp, 5.0 v—2.0 amp. Type M mounting. Dimensions: $3\frac{3}{8}''$ W x $4\frac{5}{8}''$ L x $5''$ H. Mtg. ctrs., $3\frac{3}{8}''$ x $4\frac{1}{8}''$. Shpg. wt., 12.5 lbs. **List Price \$22.00.**

These two transformers are designed to work together as a more economical power supply than is possible with one unit.

Stancor No. P-8154. Plate supply: AC volts, 375-0-375; DC ma, 205. Rectifier filament: 5.0 v—3 amp. Auxiliary filaments: 5.0 v—2 amp, 6.3 v—5.6 amp. Type M mounting. Dimensions: $3\frac{3}{8}''$ W x $4\frac{1}{2}''$ L x $4\frac{1}{4}''$ H. Mtg. ctrs., $3\frac{3}{8}''$ x $3''$. Shpg. wt., 9.1 lbs. **List Price \$15.20.**

Stancor No. P-8155. Plate supply: AC volts, 225-0-225; DC ma, 90. Rectifier filament: 5.0 v—2 amp. Auxiliary filament: 6.3 v—5.15 amp. Type M mounting. Dimensions: $2\frac{1}{8}''$ W x $3\frac{3}{8}''$ L x $3\frac{3}{4}''$ H. Mtg. ctrs., $2\frac{1}{8}''$ x $2\frac{3}{4}''$. Shpg. wt., 4.5 lbs. **List Price \$8.90.**

Stancor No. P-8156. Exact duplicate replacement for RCA type 201T6 used in RCA model 630TS receiver. High voltage winding designed to deliver 405 volts DC at 295 ma into an 80 mfd condenser input filter following two type 5U4-G tubes in a full-wave rectifier circuit. Copper shorting band around core minimizes image distortion by reduction of external magnetic field. Plate supply: AC volts, 365-0-365; DC ma, 295. Rectifier filament: 5.0 v—6.0 amp. Auxiliary filaments: 5.0 v—2.0 amp, 12.5 v CT—5.0 amp. Type M mounting. Dimensions: $3\frac{1}{8}''$ W x $4\frac{1}{4}''$ L x $6\frac{5}{8}''$ H. Mtg. ctrs., $3\frac{3}{8}''$ x $4\frac{1}{8}''$. Shpg. wt., 16.5 lbs. **List Price \$25.50.**

Stancor No. P-8157. Exact duplicate replacement for Motorola part number 25C484095 used in models VK106, VT105 and VT107. Designed for use with dual full-wave rectifiers and filters to supply two outputs simultaneously: 5U4-G (395 volts DC at 195 ma across 40 mfd input) and 5Y3-GT (212 volts DC at 105 ma across 40 mfd input). Plate supply #1: AC volts, 385-0-385; DC ma, 195. Rectifier filament: 5.0 v—3.0 amp. Plate supply #2: AC volts, 235-0-235; DC ma, 105. Rectifier filament: 5.0 v—2.0 amp. Auxiliary filaments: 6.3 v—7.65 amp, 6.3 v—0.6 amp, 5.0 v—2.0 amp Type M mounting. Dimensions: $3\frac{3}{8}''$ W x $4\frac{1}{2}''$ L x $4\frac{3}{4}''$ H. Mtg. ctrs., $3''$ x $3\frac{3}{4}''$. Shpg. wt., 11.1 lbs. **List Price \$21.00.**

OUTPUT TRANSFORMER

Stancor No. A-8114. Matches single tube 6K6 tube (7,600 ohms—32 ma) to a 3.2 ohm voice coil. Type A mounting. Dimensions: $1\frac{3}{8}''$ H x $2\frac{3}{8}''$ W x $1\frac{3}{8}''$ D. Mtg. ctrs., $2''$. Shpg. wt., 0.4 lbs. **List Price \$1.65.**

FILTER CHOKE

Stancor No. C-2325. Rated inductance, 2 hy. (min.). Rated DC, 200 ma. DC resistance, 60 ohms. Test volts, 1500 RMS. Core, $\frac{7}{8}''$ x $\frac{1}{8}''$. Type A mounting. Dimensions: $2\frac{3}{4}''$ H x $3\frac{3}{4}''$ W x $2\frac{1}{4}''$ D. Mtg. ctrs., $3\frac{3}{8}''$. Shpg. wt., 1.8 lbs. **List Price \$2.90.**

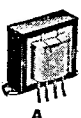
Stancor No. C-2326. Rated inductance, 1 hy. (min.). Rated DC, 300 ma. DC resistance, 43 ohms. Test volts, 1500 RMS. Core, $\frac{7}{8}''$ x $\frac{3}{4}''$. Type A mounting. Dimensions: $2\frac{3}{4}''$ H x $3\frac{3}{4}''$ W x $2\frac{1}{4}''$ D. Mtg. ctrs., $3\frac{3}{8}''$. Shpg. wt., 1.7 lbs. **List Price \$2.90.**

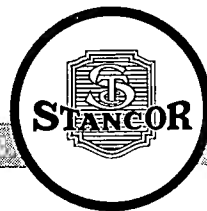
DEFLECTION YOKE

Stancor No. DY-1. Replaces RCA type 201D1. For use with direct viewing kinescopes requiring 50° magnetic deflection, such as RCA types 7DP4 and 10BP4. Provides required retrace time when used with deflection circuits employing horizontal output transformers equivalent to RCA types 211T1 and 211T3, and vertical output transformers equivalent to RCA types 204T2 or 204T9. Performance checked to close linearity limits. Type DY mounting. Shpg. wt., 1.2 lbs. **List Price \$7.50.**

FOCUS COIL

Stancor No. FC-10. Interchangeable with RCA type 202D1. Designed for magnetically focused kinescopes with deflection angles up to 50°, such as RCA type 10BP4. The large center hole of the coil provides ample clearance between core and kinescope neck, allowing for tipping and displacing axis when necessary. For best performance, a rheostat adjustment of the operating current should be used. Type FC mounting. Shpg. wt., 2 lbs. **List Price \$7.50.**





TRANSFORMERS

REACTORS POWER PACKS TRANSMITTERS

Stancor's Universal Power Transformers represent the last word in efficient transformer construction. They are designed for compactness without sacrificing efficiency.

Four universal brackets permit their being mounted in either vertical or horizontal position. Transformers equipped with 8" flexible RMA color coded leads and static shields.

Power Transformers—Universal Type

UNIVERSAL TYPE—2.5 VOLT

| Stancor Number | No. of Tubes | Plate V.C.T. Ma. | | Fil. No. 1 V. A. | | Fil. No. 2 V. A. | | Fil. No. 3 V. A. | | Mtg. Type | Mtg. Area | Mtg. Ctrs. | Wgt. in Ctn. | List Price |
|----------------|--------------|------------------|-----|------------------|-----|------------------|------|------------------|-------|-----------|-----------|------------|--------------|------------|
| | | V.C.T. | Ma. | V. | A. | V. | A. | V. | A. | | | | | |
| P-6001 | 4-5 | 650 | 40 | 5.0-C.T. | 2.0 | 2.5-C.T. | 4.0 | ..... | ..... | M | 2½" x 3" | 2" x 2½" | 3.3 | \$6.00 |
| P-6002 | 5-6 | 700 | 50 | 5.0-C.T. | 2.0 | 2.5-C.T. | 7.25 | ..... | ..... | M | 2½" x 3" | 2" x 2½" | 3.3 | 7.00 |
| P-6009 | 6-7 | 550 | 70 | 5.0-C.T. | 2.0 | 5.0-C.T. | 0.5 | 2.5-C.T. | 10.5 | M | 2½" x 3½" | 2¼" x 2½" | 4.2 | 9.00 |
| P-6005 | 6-7 | 700 | 70 | 5.0-C.T. | 2.0 | 2.5-C.T. | 9.0 | 2.5-C.T. | 3.5 | M | 2½" x 3½" | 2¼" x 2½" | 5.4 | 7.75 |
| P-6003 | 6-7 | 700 | 70 | 5.0-C.T. | 2.0 | 2.5-C.T. | 9.0 | ..... | ..... | M | 2½" x 3½" | 2¼" x 2½" | 3.8 | 8.35 |
| P-6004 | 8-9 | 700 | 90 | 5.0-C.T. | 2.0 | 2.5-C.T. | 12.5 | ..... | ..... | M | 3½" x 3¼" | 2½" x 3½" | 5.4 | 7.75 |
| P-6007 | 10-12 | 800 | 110 | 5.0-C.T. | 3.0 | 2.5-C.T. | 15.0 | 2.5-C.T. | 3.5 | M | 3½" x 3¼" | 2½" x 3½" | 6.3 | 10.25 |
| P-6006 | 11-13 | 700 | 120 | 5.0-C.T. | 3.0 | 2.5-C.T. | 12.5 | 2.5-C.T. | 3.5 | M | 3½" x 3¼" | 2½" x 3½" | 5.9 | 10.60 |

UNIVERSAL TYPE—6.3 VOLT

| | | | | | | | | | | | | | | |
|--------|-------|-----|-----|----------|-----|----------|-----|-------|-------|---|-----------|-----------|-----|--------|
| P-6289 | 6-5 | 420 | 40 | 5.0-C.T. | 2.0 | 6.3-C.T. | 2.0 | ..... | ..... | M | 2½" x 3" | 2" x 2½" | 3.1 | \$7.00 |
| P-6297 | 4-5 | 480 | 40 | 5.0-C.T. | 2.0 | 6.3-C.T. | 2.0 | ..... | ..... | M | 2½" x 3" | 2" x 2½" | 3.2 | 6.75 |
| P-6010 | 4-5 | 650 | 40 | 5.0-C.T. | 2.0 | 6.3-C.T. | 2.0 | ..... | ..... | M | 2½" x 3" | 2" x 2½" | 3.3 | 5.75 |
| P-6119 | 6-7 | 600 | 55 | 5.0-C.T. | 2.0 | 6.3-C.T. | 2.7 | ..... | ..... | M | 2½" x 3" | 2" x 2½" | 3.5 | 6.90 |
| P-6120 | 7-9 | 630 | 70 | 5.0-C.T. | 2.0 | 6.3-C.T. | 3.5 | ..... | ..... | M | 2½" x 3½" | 2¼" x 2½" | 5.2 | 7.70 |
| P-6011 | 6-7 | 700 | 70 | 5.0-C.T. | 2.0 | 6.3-C.T. | 2.5 | ..... | ..... | M | 2½" x 3" | 2" x 2½" | 3.3 | 7.30 |
| P-6312 | 7-8 | 580 | 90 | 5.0-C.T. | 2.0 | 6.3-C.T. | 2.8 | ..... | ..... | M | 3½" x 3½" | 2½" x 2½" | 5.4 | 8.40 |
| P-6012 | 8-9 | 700 | 90 | 5.0-C.T. | 2.0 | 6.3-C.T. | 3.5 | ..... | ..... | M | 2½" x 3½" | 2¼" x 2½" | 5.2 | 7.70 |
| P-6013 | 11-13 | 700 | 120 | 5.0-C.T. | 3.0 | 6.3-C.T. | 4.7 | ..... | ..... | M | 3½" x 3¼" | 2½" x 3½" | 5.3 | 8.55 |
| P-6313 | 11-13 | 580 | 125 | 5.0-C.T. | 3.0 | 6.3-C.T. | 4.5 | ..... | ..... | M | 4½" x 3½" | 3½" x 2¼" | 6.4 | 9.50 |
| P-6014 | 13-15 | 750 | 150 | 5.0-C.T. | 3.0 | 6.3-C.T. | 5.0 | ..... | ..... | M | 3½" x 3¼" | 2½" x 3½" | 5.8 | 10.50 |
| P-6165 | 14-16 | 800 | 200 | 5.0-C.T. | 4.0 | 6.3-C.T. | 5.5 | ..... | ..... | M | 3¼" x 4½" | 3" x 3¼" | 6.5 | 12.55 |
| P-6314 | 14-16 | 700 | 200 | 5.0-C.T. | 3.0 | 6.3-C.T. | 5.5 | ..... | ..... | M | 4½" x 3¼" | 3¼" x 3" | 7.7 | 12.30 |
| P-6315 | 16-18 | 740 | 275 | 5.0-C.T. | 3.0 | 6.3-C.T. | 7.0 | ..... | ..... | M | 4½" x 3¼" | 3¼" x 3" | 8.5 | 16.00 |

UNIVERSAL TYPE—6.3 AND 2.5 VOLT COMBINATION

| | | | | | | | | | | | | | | |
|---|-------|-----|-----|----------|-----|---------------|------|--------------------|-----|---|-----------|-----------|-----|--------|
| P-6293 | 6-7 | 600 | 60 | 5.0-C.T. | 2.0 | 6.3-C.T. | 2.5 | 2.5-C.T. | 7.5 | M | 2½" x 3½" | 2¼" x 2½" | 4.0 | \$8.25 |
| P-6295 | 8-9 | 700 | 90 | 5.0-C.T. | 2.0 | 6.3, 2.5 C.T. | 3.5 | 2.5-C.T. | 9.0 | M | 3½" x 3¼" | 2½" x 3½" | 5.7 | 10.25 |
| P-6234 | 11-13 | 660 | 90 | 5.0-C.T. | 2.0 | 2.5-C.T. | 12.0 | 6.3, 5.0, 2.5-C.T. | 4.0 | M | 3½" x 3¼" | 2½" x 3½" | 5.9 | 12.50 |
| Has an additional 2.5 V. at 1.75 A.C.T. winding | | | | | | | | | | | | | | |
| P-6008 | 14-16 | 750 | 180 | 5.0-C.T. | 3.0 | 6.3-C.T. | 3.3 | 2.5-C.T. | 6.0 | M | 3¼" x 4½" | 2¼" x 3½" | 6.5 | 11.65 |

UNIVERSAL TYPE—WITH MOTOR TUNING WINDINGS

| | | | | | | | | | | | | | | |
|--------|-------|-----|-----|----------|-----|----------|-----|----------|--|---|-----------|-----------|-----|---------|
| P-6290 | 11-13 | 700 | 120 | 5.0-C.T. | 3.0 | 6.3-C.T. | 4.7 | 50-24-18 | | M | 3¼" x 3½" | 2½" x 3½" | 5.4 | \$10.75 |
| P-6291 | 13-15 | 750 | 150 | 5.0-C.T. | 3.0 | 6.3-C.T. | 5.0 | 50-24-18 | | M | 3¼" x 3½" | 3½" x 2½" | 5.9 | 11.60 |

Power Transformers—Half Shell Type

HALF SHELL WITH LUGS—2.5 VOLTS

| Stancor No. | No. of Tubes | Plate V.C.T. Ma. | | Filament 1 V. A. | | Filament 2 V. A. | | Filament 3 V. A. | | Mounting Type | Mounting Area | Mtg. Ctrs. | Wgt. in Ctn. | List Price |
|-------------|--------------|------------------|-----|------------------|-----|------------------|-----|------------------|-------|---------------|---------------|------------|--------------|------------|
| | | V.C.T. | Ma. | V. | A. | V. | A. | V. | A. | | | | | |
| P-2770 | 4-5 | 650 | 40 | 5.0 | 2.0 | 2.5-C.T. | 4.5 | ..... | ..... | G | 2½" x 3" | 2" x 2½" | 2.5 | 7.25 |
| P-2860 | 8-9 | 700 | 90 | 5.0 | 2.0 | 2.5-C.T. | 3.5 | 2.5 | 9.0 | G | 3½" x 4½" | 2¼" x 3½" | 5.2 | 10.00 |

HALF SHELL WITH LUGS—6.3 VOLTS

| | | | | | | | | | | | | | | |
|--------|-------|-----|-----|-----|-----|----------|-----|-------|-------|---|-----------|-----------|-----|--------|
| P-2751 | 4 | 650 | 40 | 5.0 | 2.0 | 6.3-C.T. | 1.6 | ..... | ..... | G | 2½" x 3" | 2" x 2½" | 2.2 | \$7.00 |
| P-2771 | 4-5 | 650 | 40 | 5.0 | 2.0 | 6.3-C.T. | 2.0 | ..... | ..... | G | 2½" x 3" | 2" x 2½" | 2.5 | 7.00 |
| P-947 | 4-5 | 700 | 50 | 5.0 | 2.0 | 6.3-C.T. | 2.0 | ..... | ..... | G | 2½" x 3½" | 2¼" x 2½" | 3.3 | 6.35 |
| P-948 | 5-6 | 675 | 70 | 5.0 | 2.0 | 6.3-C.T. | 2.5 | ..... | ..... | G | 3½" x 3¼" | 2½" x 3½" | 4.7 | 7.85 |
| P-949 | 7-10 | 700 | 120 | 5.0 | 3.0 | 6.3-C.T. | 3.0 | ..... | ..... | G | 3½" x 4½" | 2¼" x 3½" | 5.5 | 9.00 |
| P-6336 | 6-8 | 600 | 150 | 5.0 | 3.0 | 6.3-C.T. | 3.0 | ..... | ..... | G | 2½" x 3½" | 2¼" x 2½" | 4.2 | 9.50 |
| P-955 | 11-14 | 800 | 160 | 5.0 | 3.0 | 6.3-C.T. | 4.5 | ..... | ..... | G | 3¼" x 4½" | 3" x 3¼" | 6.5 | 10.75 |

All of the above transformers are for operation on 117 volts, 60 cycles. Other voltage and frequency combinations available on special order. Write for quotations.

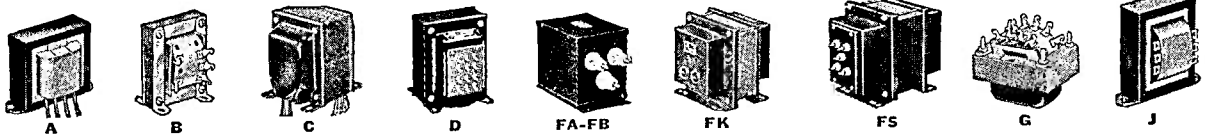
Tube Checker Transformer

Especially designed for use in modernizing older types of tube checkers. Ideal for other testing equipment and laboratory. Packed with

wiring instructions giving color coding of leads.

| Stancor No. | Primary | | Secondary Volts | | | | | | | Type Mounting | Dimensions | | | Weight in Carton | List Price | |
|-------------|---------------|--------|---|-----|-----|-----|-----|-----|-----|---------------|------------|-----|-----|------------------|------------|---------|
| | Volts | Cycles | 1.1 | 1.4 | 1.5 | 2.0 | 2.5 | 3.0 | 3.3 | | 5.0 | 6.3 | 7.0 | | | H | W | D |
| P-1834-3 | 105, 115, 125 | 50-60 | 1.1, 1.4, 1.5, 2.0, 2.5, 3.0, 3.3, 5.0, 6.3, 7.0, 7.5, 12, 25, 30, 35, 50, 70, 85, 110, 117 | A | 2½" | 4½" | 2" | 2.6 | | | | | | | | \$12.00 |

All of the above power transformers are for operation on 117 volts, 60 cycles. Other voltage and frequency combinations available on special order. Write for quotations.



TRANSFORMERS



REACTORS

POWER PACKS

TRANSMITTERS

Power Transformers—Fully Cased

| Stancor No. | No. of Tubes | Plate | | Fil. No. 1 | | Fil. No. 2 | | Fil. No. 3 | | Mtg. Type | Mtg. Area | Mtg. Ctrs. | Wgt. in Ctn. | List Price |
|--|--------------|--------|-----|------------|-----|------------|------|------------|------|-----------|-----------------|-------------------|--------------|------------|
| | | V.C.T. | Ma. | V.C.T. | A. | V.C.T. | A. | V.C.T. | A. | | | | | |
| FULLY SHIELDED WITH LEADS—2.5 VOLTS | | | | | | | | | | | | | | |
| P-4042 | 6-7 | 700 | 70 | 5.0 | 2.0 | 2.5-C.T. | 3.5 | 2.5 | 7.5 | C | 3 1/4" x 3" | 2 1/2" x 1 1/2" | 3.7 | \$8.75 |
| P-4043 | 8-9 | 700 | 90 | 5.0 | 2.0 | 2.5-C.T. | 3.5 | 2.5 | 9.0 | C | 3 1/2" x 3 3/8" | 2 1 1/2" x 2 1/2" | 4.5 | 10.00 |
| P-4044 | 10-12 | 700 | 110 | 5.0 | 3.0 | 2.5-C.T. | 3.5 | 2.5 | 14.0 | C | 3 1/2" x 3 3/8" | 2 1 1/2" x 2 1/2" | 4.7 | 11.00 |
| FULLY SHIELDED WITH LEADS—6.3 VOLTS | | | | | | | | | | | | | | |
| P-4076 | 4-5 | 650 | 40 | 5.0 | 2.0 | 6.3-C.T. | 2.0 | ..... | ... | C | 2 1/2" x 2 1/4" | 2 1/8" x 1 3/4" | 2.7 | \$6.57 |
| P-4077 | 5-6 | 700 | 50 | 5.0 | 2.0 | 6.3-C.T. | 2.6 | ..... | ... | C | 3" x 2 3/4" | 2 1/4" x 1 1/2" | 3.2 | 7.50 |
| P-4078 | 6-7 | 700 | 70 | 5.0 | 2.0 | 6.3-C.T. | 3.0 | ..... | ... | C | 3 1/4" x 3" | 2 1/2" x 1 1/8" | 4.0 | 8.50 |
| P-4079 | 8-9 | 700 | 90 | 5.0 | 2.0 | 6.3-C.T. | 3.5 | ..... | ... | C | 3 1/8" x 3 3/8" | 2 3/4" x 2 1/4" | 4.9 | 9.50 |
| P-4080 | 10-12 | 700 | 110 | 5.0 | 3.0 | 6.3-C.T. | 4.5 | ..... | ... | C | 3 3/8" x 3 3/8" | 3" x 2 1/4" | 5.4 | 10.00 |
| P-6143 | 8-9 | 880 | 130 | 5.0 | 3.0 | 6.3-C.T. | 3.5 | ..... | ... | C | 3 3/8" x 4" | 2 3/4" x 3" | 5.0 | 12.25 |
| P-4081 | 11-14 | 800 | 160 | 5.0 | 3.0 | 6.3-C.T. | 4.5 | ..... | ... | C | 3 3/8" x 3 1/8" | 3" x 2 1/4" | 5.0 | 12.00 |
| P-4004* | 11-14 | 800 | 175 | 5.0 | 3.0 | 6.3-C.T. | 2.5 | 6.3-C.T. | 2.5 | C | 3 3/8" x 4 1/8" | 3" x 2 3/4" | 11.0 | 13.50 |
| P-5059 | 11-14 | 675 | 200 | 5.0 | 3.0 | 6.3-C.T. | 5.0 | ..... | ... | C | 3 3/8" x 4 3/8" | 3" x 3 1/8" | 10.0 | 13.75 |
| P-6170 | ..... | 1200 | 200 | 5.0 | 3.0 | 6.3-C.T. | 3.0 | 6.3-C.T. | 4.0 | C | 3 3/8" x 4 3/8" | 3" x 3 1/8" | 13.3 | 13.50 |
| FULLY SHIELDED WITH LEADS—2.5 AND 6.3 OR 7.5 VOLT COMBINATION | | | | | | | | | | | | | | |
| P-4047 | 6-7 | 700 | 70 | 5.0 | 2.0 | 2.5-C.T. | 9.0 | 6.3 | 3.0 | C | 3 1/4" x 3" | 2 1/2" x 1 1/2" | 3.7 | 9.00 |
| P-4048 | 8-9 | 700 | 90 | 5.0 | 2.0 | 2.5-C.T. | 10.0 | 6.3 | 3.5 | C | 3 1/8" x 3 1/2" | 2 3/4" x 2 3/8" | 5.0 | 10.50 |
| P-4049 | 10-12 | 700 | 110 | 5.0 | 3.0 | 2.5-C.T. | 14.0 | 6.3 | 4.5 | C | 3 3/8" x 3 3/8" | 3" x 2 3/8" | 5.3 | 11.75 |
| P-3005† | 10-12 | 720 | 125 | 5.0 | 3.0 | 2.5-C.T. | 10.0 | 6.3-C.T. | 4.0 | C | 3 3/8" x 3 3/8" | 3" x 2 3/4" | 5.5 | 13.50 |
| P-4050* | 11-14 | 800 | 160 | 5.0 | 3.0 | 2.5-C.T. | 14.0 | 6.3 | 4.5 | C | 3 3/8" x 3 3/4" | 3" x 2 3/4" | 6.2 | 13.75 |

* Has 80 V. bias tap and extra 2.5 V. 1.75A filament. † Has 80 V. bias tap and extra 5 V. 2A filament.

FULLY SHIELDED WITH LEADS—1.5, 2.5 AND 5 VOLT COMBINATION

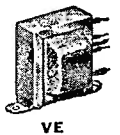
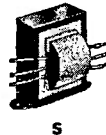
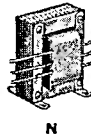
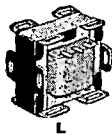
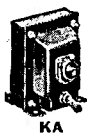
| Stancor No. | Plate | | Rectifier Filament | | Filaments No. 1, 2 | | Filaments No. 3, 4 | | Mounting Type | Mounting Area | Mounting Ctrs. | Wgt. in Ctn. | List Price |
|-------------|--------|-----|--------------------|-----|--------------------|-----|--------------------|----|---------------|-----------------|-----------------|--------------|------------|
| | V.C.T. | Ma. | V. | A. | V. | A. | V. | A. | | | | | |
| P-1501 | 600 | 60 | 5.0 | 2.0 | 1.5-C.T. | 1.0 | 1.5 | 4 | C | 3 1/2" x 3 3/8" | 2 1/2" x 2 1/2" | 5.0 | \$10.50 |
| P-1503 | 700 | 120 | 5.0 | 3.0 | 1.5-C.T. | 1.0 | 1.5 | 5 | C | 4" x 3 3/4" | 3 1/8" x 3 1/8" | 7.5 | 13.75 |
| P-1505 | 700 | 120 | 5.0 | 3.0 | 2.5-C.T. | 4.0 | 2.5-C.T. | 9 | C | 4" x 3 3/4" | 3" x 3" | 7.5 | 13.50 |

Vibrator Transformers—Six Volt Universal

| Stancor No. | Secondary | | Type Mounting | Dimensions | | | Weight in Carton | List Price |
|-------------|----------------------------|---------------------|---------------|------------|--------|--------|------------------|------------|
| | D.C. Volts to Filter | Ma. | | H | W | D | | |
| P-6301 | 150 | 40 | S | 2 1/8" | 2 1/8" | 1 1/4" | 1.3 | \$4.50 |
| P-4060 | 225 | 40 | N | 3 1/2" | 2 1/2" | 3" | 2.2 | 4.90 |
| P-4061 | 250 | 50 | N | 3 1/2" | 2 1/2" | 3" | 2.3 | 5.25 |
| P-4062 | 260 | 65 | N | 3 3/8" | 2 1/2" | 3" | 2.6 | 5.75 |
| P-4063 | 285 | 75 | N | 3 3/8" | 2 1/2" | 3 1/4" | 3.0 | 6.50 |
| P-6131 | 330 | 100 | N | 3 1/2" | 2 1/8" | 3 1/4" | 3.5 | 7.00 |
| P-6166 | 350 V @ Fil. 6.3 V.C.T. | 135 Ma. @ 2.25 A | C | 4 5/8" | 3 3/8" | 4" | 9.0 | 12.65 |

Automobile Radio Vibrator Transformers—Exact Duplicate Replacements

| Stancor No. | Trade Name | Manufacturers Part Number | Manufacturers Service Number | Description | Year | List Price |
|-------------|--|---------------------------|------------------------------|---|---------|------------|
| P-4064 | United Motors (Delco) | 7240519 | ..... | Buick | 1946-47 | \$9.00 |
| P-4065 | United Motors (Delco) | 7255881 | ..... | Cadillac, Chev., Olds., Pontiac | 1946-47 | 8.50 |
| P-6470 | Regal (5-tube Univ. Series) | 140-111 | ..... | 140 V. @ 50 Ma. 2 1/8" H. x 2 1/8" W. x 2 3/8" D. | 1946-47 | 6.00 |
| P-6471 | Motorola (408, 508, 608) | 25B472533 | ..... | 6 tube Ford | 1946-47 | 6.25 |
| P-6472 | (Colonial-Detrola #8072 Colonial-Bendix M1 Colonial-Motorola Motorola 405, 505, 605, 705) | D 71014 | G 141-0004 | Ford 8A-18805-A | 1947-48 | 6.25 |
| | | C 217020 | H 141-0004 | Ford 8A-18805-A | 1947-48 | |
| | | C 71014 | J 141-0004 | Ford-FD6, Nash Standard | 1947-48 | |
| | | 25B70950 | ..... | Standard | 1947-48 | |
| P-6473 | Zenith | 95-1073 | ..... | Ford, Mercury, Lincoln 8-tube | 1947-48 | 7.00 |
| P-6474 | Zenith | 95-1066 | ..... | Hudson | 1947-48 | 7.00 |
| P-6476 | (Colonial-Detrola #7070 Colonial-Motorola—Detrola #8030) | D 70267 | G 141-0001 | Ford #51A-18805-B2 | 1947-48 | 6.25 |
| | | C 70267 | J 141-0001 | Willys #67077 | 1947-48 | |





TRANSFORMERS

REACTORS

POWER PACKS

TRANSMITTERS

Universal Output Transformers

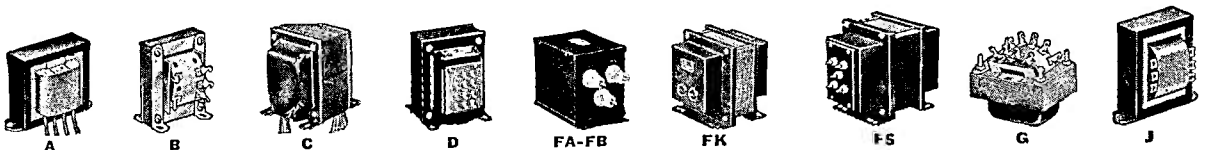
| Stancor No. | Output Tubes | Impedance | | D.C. Pri. M.A. | Max. Audio Watts | Type Mounting | Dimensions | | | Weight in Carton | List Price |
|-------------|------------------------|--|----------|----------------|------------------|---------------|---------------------|---------------------|-------------------|------------------|------------|
| | | Primary | Sec. | | | | H | W | D | | |
| A-3856 | Single or P.P. Plates | 2,000, 4,000, 5,000, 6,000, 8,000, 10,000 C.T. | 4, 8, 15 | 35 | | Q | 1 $\frac{1}{8}$ " | 2 $\frac{3}{8}$ " | 1 $\frac{1}{2}$ " | 0.6 | \$2.60 |
| A-3849 | Universal Single Plate | 1,500, 2,000, 4,000, 5,000, 7,000, 10,000 | 4, 8, 15 | 55 | 10 | Q | 1 $\frac{1}{8}$ " | 2 $\frac{7}{8}$ " | 1 $\frac{1}{2}$ " | 0.7 | 2.60 |
| A-3823 | Single or P.P. Plates | 2,000, 4,000, 5,000, 6,000, 8,000, 10,000 C.T. | 4, 8, 15 | 40 | 8 | Q | 2" | 2 $\frac{13}{16}$ " | 1 $\frac{1}{2}$ " | 0.7 | 2.75 |
| A-3850 | Single or P.P. Plates | 4,000, 7,000, 8,000, 10,000, 14,000 C.T. | 4, 8, 15 | 40 | 8 | J | 2" | 2 $\frac{3}{8}$ " | 1 $\frac{1}{2}$ " | 0.7 | 2.95 |
| A-3852 | Single or P.P. Plates | 4,000, 7,000, 8,000, 10,000, 14,000 C.T. | 4, 8, 15 | 40 | 18 | J | 2 $\frac{3}{16}$ " | 2 $\frac{7}{8}$ " | 2" | 1.6 | 3.55 |
| A-3870 | Single or P.P. Plates | 4,000, 7,000, 8,000, 10,000, 14,000 C.T. | 4, 8, 15 | 50 | 18 | Q | 2 $\frac{7}{8}$ " | 3 $\frac{1}{4}$ " | 2" | 1.6 | 3.75 |
| A-3880 | Single or P.P. Plates | 4,000, 7,000, 8,000, 10,000, 14,000 C.T. | 4, 8, 15 | 40 | 15 | Q | 2 $\frac{1}{4}$ " | 3 $\frac{3}{4}$ " | 2 $\frac{1}{4}$ " | 1.7 | 4.90 |
| A-3830 | Single or P.P. Plates | 2,000, 4,000, 5,000, 6,000, 8,000, 10,000 C.T. | 4, 8, 15 | 60 | 20 | Q | 2 $\frac{11}{16}$ " | 3 $\frac{5}{8}$ " | 2 $\frac{1}{4}$ " | 3.0 | 4.90 |
| A-3890 | Single or P.P. Plates | 4,000, 7,000, 8,000, 10,000, 14,000 C.T. | 4, 8, 15 | 50 | 15 | TD | 2 $\frac{11}{16}$ " | 2 $\frac{3}{4}$ " | 2 $\frac{3}{8}$ " | 1.3 | 6.50 |
| A-2855 | Single or P.P. Plates | 4,000, 7,000, 8,000, 10,000, 14,000 C.T. | 4, 8, 15 | 50 | 15 | L | 2 $\frac{1}{4}$ " | 2 $\frac{3}{8}$ " | 1 $\frac{3}{4}$ " | 1.3 | 4.20 |
| A-3841 | Universal Single Plate | 2,500, 4,000, 5,000, 6,000, 7,000 | | 500 | 60 | J | 2 $\frac{11}{16}$ " | 3 $\frac{5}{8}$ " | 2 $\frac{1}{4}$ " | 1.8 | 6.25 |
| A-3842 | Universal P.P. Plates | 8,000, 10,000, 12,000, 14,000 C.T. | | 500 | 55 | J | 2 $\frac{11}{16}$ " | 3 $\frac{5}{8}$ " | 2 $\frac{1}{4}$ " | 1.8 | 6.55 |

Crystal Recorder Output Transformers

| Stancor No. | Output Tubes | Impedance in Ohms | | Core Size | Max. Watts Level | Type Mtg. | Dimensions | | | Mtg. Ctrs. | Wgt. in Ctn. | List Price |
|-------------|---|-------------------|----------------|-------------------------------------|------------------|-----------|---------------------|---------------------|-------------------|---------------------|--------------|------------|
| | | Primary | Secondary | | | | H | W | D | | | |
| A-3853 | Sgl. 2A5, 6AC5, 6B5, 7B5, 6F6, 6K6, 6N6, 42 | 7,000 | 70,000 or 4-6 | 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " | 5 | A | 2" | 3 $\frac{1}{4}$ " | 1 $\frac{3}{4}$ " | 2 $\frac{13}{16}$ " | 1.0 | \$4.50 |
| A-3854 | Sgl. 2A5, 6AC5, 6B5, 7B5, 6F6, 6K6, 6N6, 42 | 7,000 | 70,000 and 4-6 | 3 $\frac{1}{8}$ "x3 $\frac{1}{8}$ " | 10 | A | 2 $\frac{1}{4}$ " | 3 $\frac{3}{4}$ " | 2 $\frac{1}{4}$ " | 3 $\frac{1}{8}$ " | 1.5 | 4.75 |
| A-3859 | P.P. 6AC5, 6B5, 7B5, 6F6, 6K6, 6N6, 42 | 10,000 | 70,000 or 4-6 | 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " | 5 | A | 2" | 3 $\frac{1}{4}$ " | 1 $\frac{3}{4}$ " | 2 $\frac{13}{16}$ " | 1.0 | 4.50 |
| A-3860 | P.P. 6AC5, 6B5, 7B5, 6F6, 6K6, 6N6, 42 | 10,000 | 70,000 and 4-6 | 3 $\frac{1}{8}$ "x3 $\frac{1}{8}$ " | 10 | A | 2 $\frac{1}{4}$ " x | 3 $\frac{3}{4}$ " x | 2 $\frac{1}{4}$ " | 3 $\frac{1}{8}$ " | 1.5 | 5.50 |
| A-3897 | 500 Ohm Line | 500 | 70,000 | 3 $\frac{1}{8}$ "x3 $\frac{1}{8}$ " | 10 | W2 | 3 $\frac{1}{2}$ " x | 2 $\frac{1}{8}$ " x | 3 $\frac{1}{8}$ " | | 3.0 | 16.80 |

Tube to Line Transformers—Universal

| Stancor No. | From | To | Impedance | | D.C. Pri. Ma. | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|--|------|------------------------------------|------------------------|---------------|-----------|-------------------|-------------------|-------------------|--------------|------------|
| | | | Primary | Secondary | | | H | W | D | | |
| A-3250 | Sgl. or P.P. 27, 30, 12A, 37, 55, 56, 76, 6C5, 6C6 | Line | 10,000 or 20,000 | 50, 125, 200, 333, 500 | 10 | Q | 2" | 3 $\frac{1}{4}$ " | 1 $\frac{3}{4}$ " | 1.2 | \$4.50 |
| A-3315 | Sgl. or P.P. 27, 30, 37, 55, 56, 76, 12A, 6C5, 6C6 | Line | 10,000 or 20,000 | 50, 125, 200, 333, 500 | 35 | D | 3 $\frac{1}{8}$ " | 2 $\frac{5}{8}$ " | 3 $\frac{3}{8}$ " | 2.6 | 10.00 |
| A-4770 | Univ. Single Tube | Line | 2,500, 4,000, 5,000, 6,000, 7,000 | 500 | 60 | J | 3 $\frac{1}{8}$ " | 2 $\frac{5}{8}$ " | 2 $\frac{5}{8}$ " | 2.3 | 6.00 |
| A-4771 | Univ. P.P. Tubes | Line | 8,000, 10,000, 12,000, 14,000 C.T. | 500 | 55 | A | 2 $\frac{5}{8}$ " | 4" | 2 $\frac{5}{8}$ " | 2.3 | 6.30 |



TRANSFORMERS



REACTORS POWER PACKS TRANSMITTERS

Replacement Output Transformers

| Stancor No. | Output Tubes | Class | Impedance in Ohms | | D.C. Pri. Ma. | Max. Audio Watts | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|--|-------|-------------------|--------------------------|---------------|------------------|-----------|------------|--------|--------|--------------|------------|
| | | | Primary | Secondary | | | | H | W | D | | |
| A-3865 | Sgl. 48, 25B6, 25L6, 50L6 | A | 1,500 | 2, 4, 6 | 55 | 5 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | \$2.35 |
| A-3876 | Sgl. 2A3, 6A3, 6B4, 6W6, 6Y6, 25AC5, 25B5, 25B6, 25L6, 35A5, 35L6, 50L6 | A | 2,000 | 4 | 60 | 5 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 1.75 |
| A-3825 | Sgl. 2A3, 6A3, 6B4, 6L6, 6W6, 6Y6, 25AC5, 25B5, 25L6, 25N6, 35N6, 35L6, 50L6 | A | 2,500 | 1, 2, 4 | 75 | 8 | Q | 2" | 3 1/4" | 1 5/8" | 1.0 | 3.25 |
| A-2203 | Sgl. 12A5, 25A6, 31, 43, 45, 71, 48 | A | 4,000 | 8 | 40 | 5 | A | 1 5/8" | 2 3/8" | 1 3/8" | 0.7 | 2.55 |
| A-3877 | Sgl. 2B6, 6V6, 7C5, 12A, 25A6, 31, 43, 59 | A | 5,000 | 4 | 40 | 5 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 1.85 |
| A-3822 | Sgl. 2A5, 6AC5, 6B5, 6F6, 6K6, 6N6, 7B5, 38, 41, 42, 47, 59, 89 | A | 7,000 10,000 | 0.7, 1, 1.4 2, 2.8, 4 | 45 | 5 | Q | 1 3/8" | 2 3/8" | 1 1/2" | 0.5 | 2.20 |
| A-3878 | Sgl. 2A5, 6AC5, 6B5, 7B5, 6F6, 6K6, 6N6, 20, 31, 33, 42 | A | 7,000 | 4 | 30 | 5 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 1.80 |
| A-2313 | Sgl. 2A5, 6AC5, 6F6, 6K6, 6N6, 7B5, 33, 41, 42, 47, 59, 89 | A | 7,000 | 8 | 40 | 10 | A | 2" | 3 1/4" | 1 3/4" | 1.1 | 2.70 |
| A-2201 | Sgl. 6A6, 53; P.P. 25A6, 43, 45, 48, 71 | A | 8,000 | 6 | 40 | 10 | A | 2" | 3 1/4" | 1 3/4" | 1.0 | 3.10 |
| A-3824 | Sgl. 6A6, 6N7, 53; P.P. 46 | B | 8,000 | 1, 2, 4 | 75 | 8 | Q | 1 3/8" | 3 1/4" | 2" | 1.4 | 4.10 |
| A-3879 | Sgl. 1J6, 6C5, 6A4, 6G6, 6N7, 6R7, 12A, 38 | A | 10,000 | 4 | 30 | 5 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 1.75 |
| A-3831 | Sgl. 1G6, 1J6, 19, 6E6; P.P. 30, 49 | B | 10,000 | 2, 4, 8 | 40 | 5 | A | 1 5/8" | 2 1/8" | 1 1/2" | 2.6 | 2.70 |
| A-3496 | P.P. 2A5, 6F6, 6K6, 7B5, 33, 41, 42, 47, 49 | A | 14,000 | 4 | 45 | 5 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.7 | 2.35 |
| A-2312 | P.P. 2A5, 6F6, 6K6, 7B5, 33, 41, 42, 47, 49 | A | 14,000 | 4 | 40 | 10 | A | 2" | 3 1/4" | 1 3/4" | 1.1 | 2.80 |
| A-3881 | Sgl. 1D8, 1E7, 1F4, 1F5, 1J5, 1T5, 6V7, 6Y7, 12A7 | A | 15,000 | 4 | 10 | 5 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 1.75 |
| A-3848 | Sgl. 1D8, 1F4, 1F5, 1J5, 1T5, 6R7, 950 | A | 16,000 | 1, 2, 4 | 10 | 5 | Q | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 2.60 |
| A-3857 | Sgl. 1A5, 1E7, 1N6, 6V7; PP. 1F4, 1F5, 1J5, 1T5, 6G6 | A | 25,000 | 4 | 10 | 5 | A | 1 3/8" | 2 1/8" | 1 3/8" | 0.7 | 2.25 |

Heavy Duty Output Transformers to Line or Speaker—High Level

| | | | | | | | | | | | | |
|--------|---|------------|------------------------|--------------------|-----|----|----|----------|--------|--------|-----|--------|
| A-3306 | P.P. PAR. 48, 25L6 P.P. PAR. 2A3, 45 | A AB | 2,500 | 4, 8, 15, 500 | 100 | 25 | C | 3 3/8" | 3" | 3 1/2" | 3.6 | \$8.00 |
| A-3301 | PP. 2A3, 6A3, 6B4 P.P. 48, 25L6 | AB A | 3,000 | 4, 8, 15, 500 | 55 | 30 | C | 3 3/8" | 3" | 3 1/2" | 3.7 | 7.70 |
| A-3802 | P.P. PAR. 6L6 PP. 45, 6L6 | AB1 AB2 | 3,300 3,800 | 4, 8, 250, 500 | 250 | 75 | C | 4 3/8" | 3 3/8" | 3 3/8" | 8.3 | 11.50 |
| A-5528 | P.P. 6V6, 25L6 | A | 4,000 | 4, 8, 15, 500 | 65 | 8 | C | 3 3/8" | 2 5/8" | 2 3/8" | 2.4 | 6.60 |
| A-3851 | P.P. 6L6* | AB1 | 4,400 | 4, 8, 15, 250, 500 | 70 | 30 | C | 3 3/8" | 3" | 3 1/2" | 3.6 | 8.90 |
| A-3872 | P.P. 6L6; P.P. 2A3, 6A3, 45 | A | 5,000 | 4, 8, 15 | 150 | 18 | TD | 2 11/16" | 2 3/4" | 2 1/2" | 1.8 | 6.00 |
| A-3310 | Sgl. 45, 2B6, 6L6, 6V6, 25A6, 25A7 | A | 5,000 | 4, 8, 15, 500 | 55 | 20 | C | 3 3/8" | 2 3/8" | 2 3/8" | 2.5 | 6.95 |
| A-3800 | P.P. 6L6 P.P. 2A3, 6A3, 45 | A AB | 5,000 | 4, 8, 15, 250, 500 | 80 | 30 | C | 3 3/8" | 3" | 3 1/2" | 3.7 | 7.90 |
| A-3307 | P.P. 2A5, 6F6, 42 P.P. 46, 59; P.P. PAR. 6A6, 6N7, 53 | AB2 B | 6,000 | 4, 8, 15, 500 | 100 | 30 | C | 3 3/8" | 3" | 3 1/2" | 3.6 | 8.40 |
| A-3801 | P.P. 6L6 | AB1 | 6,600 | 4, 8, 15, 250, 500 | 150 | 35 | C | 3 3/8" | 3 1/4" | 3 3/8" | 5.0 | 9.20 |
| A-3855 | Sgl. 2A5, 6AC5, 6F6, 6K6, 6N6, 7B5, 33, 41, 42, 47, 59, 89; P.P. 12A5, 45 | A | 7,000 | 10, 2,000 | 40 | 5 | TD | 2 11/16" | 2 3/4" | 2 3/8" | 1.7 | 5.65 |
| A-3885 | P.P. 6L6 | AB1 | 9,000 | 4, 8, 15, 250, 500 | 150 | 35 | C | 3 3/8" | 3 1/4" | 3 3/8" | 5.0 | 9.20 |
| A-3304 | Sgl. 6A4, 6B5, 6N6; PP. 6V6, 45 Sgl. 6A6, 6N7, 53; P.P. 6AC5 | A B | 7,000, 7,000 10,000 | 4, 8, 15, 500 | 60 | 25 | C | 3 3/8" | 2 3/8" | 2 3/8" | 2.6 | 7.20 |
| A-3839 | Sgl. 1G6, 1J6, 19; PP. 1H4, 30, 49 Sgl. 1G5, 3C5, 6G6, 6R7, 12A | A B | 10,000 | 4, 8, 15, 2000 | 30 | 10 | TD | 2 11/16" | 2 3/4" | 2 1/2" | 1.7 | 6.00 |
| A-3311 | Sgl. 6A6, 6N7, 53; P.P. 6B5, 6N6 P.P. 6F6, 6V6 | B AB | 10,000 | 4, 8, 15, 500 | 70 | 25 | C | 3 3/8" | 3" | 3 1/2" | 3.8 | 7.50 |
| A-3303 | Sgl. 6Y7, 6Z7, 79 P.P. 2A5, 6F6, 6K6, 7B5, 41, 42, 47, 59, 89 | B A | 14,000 | 4, 8, 15, 500 | 55 | 20 | C | 3 3/8" | 2 5/8" | 2 5/8" | 2.6 | 7.00 |

* 10% Inverse Feedback Winding Used. NOTE: All transformers shown for P.P. operation have C.T.

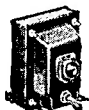
High Fidelity Output Transformers

| Part No. | Pri. Z C.T. Ohms | Sec. Z in Ohms* | Type of Tubes | Class of Operation | Max. Pri. per Side | D.C. Max. Audio Watts | Type of Mounting | Weight in Carton | List Price |
|----------|------------------|-----------------|--------------------------|--------------------|--------------------|-----------------------|------------------|------------------|------------|
| A-8050 | 1500 | 8, 16 | P.P. PAR. 2A3's | AB | 80 | 50 | C | 6.5 | \$14.20 |
| A-8051 | 2500 | 8, 16 | P.P. PAR. 6L6's | A | 150 | 50 | C | 6.5 | 14.20 |
| A-8052 | 3000 | 8, 16 | P.P. 2A3's | AB | 75 | 25 | C | 6.5 | 12.80 |
| A-8053 | 5000 | 8, 16 | P.P. 6L6's or P.P. 2A3's | A | 75 | 25 | C | 6.5 | 12.80 |
| A-8054 | 9000 | 8, 16 | P.P. 6L6's | AB1 | 75 | 25 | C | 6.5 | 12.80 |
| A-8060 | 1500 | 500 | P.P. PAR. 2A3's | AB | 80 | 50 | C | 6.5 | 14.20 |
| A-8061 | 2500 | 500 | P.P. PAR. 6L6's | A | 150 | 50 | C | 6.5 | 14.20 |
| A-8062 | 3000 | 500 | P.P. 2A3's | AB | 75 | 25 | C | 6.5 | 12.80 |
| A-8063 | 5000 | 500 | P.P. 6L6's or P.P. 2A3's | A | 75 | 25 | C | 6.5 | 12.80 |
| A-8064 | 9000 | 500 | P.P. 6L6's | AB1 | 75 | 25 | C | 6.5 | 12.80 |

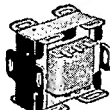
* Where more than one secondary impedance is shown only one value is to be used at any time.



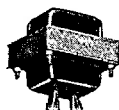
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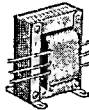
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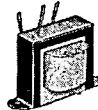
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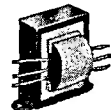
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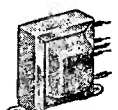
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TD



VE



TRANSFORMERS

REACTORS POWER PACKS TRANSMITTERS

Interstage Transformers

| Stancor No. | From | To | Impedance | | Turns Ratio Sec. to Pri. | D.C. Pri. Ma. | Type Mtg. | Mounting Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|--|------------|-----------|---------|--------------------------|---------------|-----------|-----------------------------------|----------------------------------|----------------------------------|--------------|------------|
| | | | Pri. | Sec. | | | | H | W | D | | |
| A-4205 | 20,000 ohm plate | Grid | 20,000 | 115,000 | 2.4:1 | 15 | C | 3 ³ / ₁₆ " | 2 ⁵ / ₈ " | 2 ⁵ / ₈ " | 2.5 | \$7.50 |
| A-53C | 10,000 ohm plate | Grid | 10,000 | 90,000 | 3:1 | 10 | A | 1 ³ / ₁₆ " | 2 ³ / ₈ " | 1 ¹ / ₂ " | 0.5 | 2.45 |
| A-63C | 10,000 ohm plate | Grid | 10,000 | 90,000 | 3:1 | 10 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ³ / ₄ " | 0.75 | 2.65 |
| A-73C | 10,000 ohm plate | Grid | 10,000 | 90,000 | 3:1 | 10 | A | 2" | 3 ¹ / ₁₆ " | 1 ⁵ / ₈ " | 1.0 | 3.20 |
| A-2132 | Screen Grid Tube For coupling screen grid or power detector. | P.P. Grids | 10,000 | 10,000 | 1:1 | 10 | S | 3 ¹ / ₈ " | 3 ⁵ / ₈ " | 2 ¹ / ₄ " | 2.4 | 6.55 |
| A-52C | 10,000 ohm plate | P.P. Grids | 10,000 | 40,000 | 2:1 | 10 | A | 1 ³ / ₈ " | 2 ³ / ₈ " | 1 ³ / ₈ " | 0.5 | 2.45 |
| A-62C | 10,000 ohm plate | P.P. Grids | 10,000 | 40,000 | 2:1 | 10 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ³ / ₄ " | 0.75 | 2.65 |
| A-4741 | 10,000 ohm plate | P.P. Grids | 10,000 | 40,000 | 2:1 | 10 | S | 2" | 2 ³ / ₈ " | 1 ¹ / ₂ " | 0.8 | 2.80 |
| A-4745 | 10,000 ohm plate For super-regenerative detector, static shield between windings. | P.P. Grids | 10,000 | 40,000 | 2:1 | 10 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 1.5 | 6.35 |
| A-53C | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | A | 1 ³ / ₈ " | 2 ³ / ₈ " | 1 ³ / ₈ " | 0.5 | 2.45 |
| A-63C | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ³ / ₄ " | 0.75 | 2.65 |
| A-73C | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | A | 2" | 3 ¹ / ₄ " | 1 ³ / ₄ " | 1.0 | 3.20 |
| A-103C | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | A | 2 ⁵ / ₈ " | 4" | 2 ¹ / ₄ " | 2.2 | 6.45 |
| A-4155 | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | L | 2 ¹ / ₄ " | 2 ⁵ / ₁₆ " | 1 ³ / ₄ " | 1.2 | 4.75 |
| A-4719 | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 1.5 | 5.85 |
| A-4750 | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | S | 2 ⁵ / ₁₆ " | 2 ³ / ₈ " | 1 ³ / ₄ " | 1.0 | 3.50 |
| A-4740 | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | S | 2" | 2 ³ / ₈ " | 1 ¹ / ₂ " | 0.75 | 3.00 |
| A-83C | 10,000 ohm plate | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | A | 2 ¹ / ₄ " | 3 ³ / ₄ " | 2 ¹ / ₄ " | 1.5 | 4.90 |
| A-4206* | 20,000 ohm plate | P.P. Grids | 20,000 | 180,000 | 3.25:1 | 15 | C | 3 ³ / ₁₆ " | 2 ⁵ / ₈ " | 2 ⁵ / ₈ " | 2.5 | 7.50 |
| A-64C | 10,000 ohm plate | P.P. Grids | 10,000 | 160,000 | 4:1 | 10 | S | 2" | 2 ³ / ₈ " | 1 ³ / ₄ " | 0.75 | 3.00 |

* Split Secondary.

| | | | | | | | | | | | | |
|---------|-------------|------------|--------|--------|--------|----|---|----------------------------------|----------------------------------|---------------------------------|-----|--------|
| A-4208* | P.P. Plates | P.P. Grids | 25,000 | 13,000 | 1:1.39 | 15 | C | 3 ³ / ₁₆ " | 2 ⁵ / ₈ " | 2 ⁵ / ₈ " | 2.5 | \$6.00 |
| A-4711 | P.P. Plates | P.P. Grids | 20,000 | 20,000 | 1:1 | 10 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ¹ / ₂ " | 0.8 | 3.10 |
| A-4777* | P.P. Plates | P.P. Grids | 20,000 | 45,000 | 1.5:1 | 10 | C | 3 ³ / ₁₆ " | 2 ⁵ / ₈ " | 2 ⁵ / ₈ " | 2.5 | 6.50 |
| A-4155 | P.P. Plates | P.P. Grids | 10,000 | 90,000 | 3:1 | 10 | L | 2 ¹ / ₄ " | 2 ¹ / ₁₆ " | 1 ³ / ₄ " | 1.2 | 4.75 |

* Split Secondary.

Universal Interstage Transformers—Split Secondaries

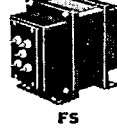
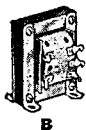
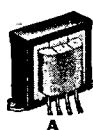
| Stancor No. | Application | Turns Ratio | D.C. Pri. Ma. | Type Mtg. | Dimensions | | | Mtg. Ctrs. | Wgt. in Ctn. | List Price |
|-------------|-------------|-------------|---------------|-----------|-----------------------------------|---------------------------------|----------------------------------|---------------------------------|--------------|------------|
| | | | | | H | W | D | | | |
| A-4773 | Universal | 3:1 | 10 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 2 ³ / ₈ " | 1.5 | \$6.00 |
| A-4774 | Universal | 3:1 | 10 | S | 2 ³ / ₁₆ " | 2 ¹ / ₈ " | 1 ³ / ₄ " | 2 ³ / ₈ " | 1.5 | 4.05 |

May be used as plate to grid; push pull input or push-pull interstage replacement transformers. Have 3:1 over all ratio, however, primary is center-tapped and secondary has split winding, thus permitting

ratios of 1:1, 3:1 and 6:1. Transformers may be used in either step-up or step-down applications.

Driver Transformers

| Stancor No. | From | To | Class | Impedance | | Turns Ratio Pri. to 1/2 Sec. | D.C. Pri. Ma. | Type Mtg. | Mounting Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|---|--|-------|-----------|--------------------------|------------------------------|---------------|-----------|-----------------------------------|---------------------------------|----------------------------------|--------------|------------|
| | | | | Pri. | 1/2 Sec. | | | | H | W | D | | |
| A-4722 | 1-42, 47 2A5, 6K6 | P.P. 42, 2A5, 6F6, 6K6 | AB | 10,000 | 2,500 | 2:1 | 30 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 1.5 | \$5.40 |
| A-4752 | 1-6G6G, 6F6, 42, 2A5, as Triodes | P.P. Grids 6V6, 6Y6, 6F6, 6L6, 6Z7 | AB | 10,000 | 2,500 4,400 10,000 | 2:1 1.5:1 1:1 | 35 | A | 2" | 3 ¹ / ₄ " | 1 ³ / ₄ " | 1.5 | 4.00 |
| A-4713 | 1-46, 45, 2A5, 6F6 | P.P. Grids 79, 2A5, 6A6, 6F6 | AB | 10,000 | 2,500 | 2:1 | 30 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ¹ / ₂ " | 0.7 | 2.60 |
| A-4292 | 1-6C5, 30, 49 | 1-1J6, 19, 2-30, 2-49 | B | 10,000 | 1,600 | 2.5:1 | 10 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ¹ / ₂ " | 0.7 | 2.60 |
| A-4734 | 1-30, 2A5, 6A6, 1G5, 6F6, 6K6 | P.P. Grids 19, 2A5, 6A6, 1J6 | B | 10,000 | 1,600 | 2.5:1 | 15 | S | 2 ³ / ₁₆ " | 2 ¹ / ₈ " | 1 ³ / ₄ " | 1.4 | 3.40 |
| A-4723 | 1-30, 2A5, 6A6, 1G5, 6K6, etc. | P.P. Grids 19, 79, 2A5, 6A6, 6F6, 1J6, 6K6 | B | 10,000 | 1,100 | 3:1 | 30 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ¹ / ₂ " | 0.7 | 2.60 |
| A-4712 | P.P. 27, 30, 37, 56, 76, 6C5, 1H4, 6J5 | P.P. 19, 53, 6A6, 1J6, 6N7 | B | 20,000 | 2,200 | 3:1 | 10 | A | 1 ³ / ₈ " | 2 ¹ / ₈ " | 1 ¹ / ₂ " | 0.7 | 2.90 |



TRANSFORMERS



REACTORS

POWER PACKS

TRANSMITTERS

Microphone Pickup or Line to Grid Transformers

| Stancor No. | From | To | Impedance | | Ratio Overall | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|---|--------------------|------------------------|--------------|---------------|-----------|-----------------------------------|---------------------------------|----------------------------------|--------------|------------|
| | | | Primary | Secondary | | | H | W | D | | |
| A-4742 | S.B. Microphone | Sgl. or P.P. Grids | 100 | 400,000 C.T. | 1:64 | S | 2 ⁵ / ₁₆ " | 2 ⁷ / ₈ " | 1 ³ / ₄ " | 1.0 | \$3.95 |
| A-4743 | S.B. Microphone Has shield cover which encloses entire coil. | Sgl. or P.P. Grids | 100 | 400,000 C.T. | 1:64 | S | 2 ⁵ / ₁₆ " | 2 ⁷ / ₈ " | 2 ¹ / ₈ " | 1.1 | 4.30 |
| A-4707 | S.B. Microphone | Single Grid | 100 | 58,500 | 1:24.2 | J | 2" | 2 ³ / ₈ " | 1 ⁵ / ₈ " | 0.8 | 3.20 |
| A-4706 | S.B. Microphone | Single Grid | 100 | 60,000 | 1:24.6 | A | 1 ³ / ₈ " | 2 ³ / ₈ " | 1 ¹ / ₂ " | 0.6 | 2.40 |
| A-4708 | D.B. Microphone | Single Grid | 200 C.T. | 57,000 | 1:17 | J | 2" | 2 ³ / ₈ " | 1 ⁵ / ₈ " | 0.8 | 3.55 |
| A-4709 | Dynamic or Pickup | Single Grid | 4, 8, 15, 30 | 106,000 | 1:60 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 1.8 | 6.40 |
| A-4351 | S.B. or D.B. Microphone or line | Single Grid | 50, 125, 200, 333, 500 | 89,000 | 1:13.3 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 1.0 | 5.90 |
| A-4408 | S.B. or D.B. Microphone or line | Single Grid | 50, 125, 200, 333, 500 | 80,000 | 1:12.5 | D | 3 ¹ / ₈ " | 2 ⁵ / ₈ " | 3 ¹ / ₈ " | 2.6 | 9.10 |
| A-4726 | D.B. Microphone and 200 ohm line | P.P. Grids | 200 C.T. | 100,000 | 1:22.3 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 1.8 | 6.40 |
| A-4352 | S.B. or D.B. Microphone or line | P.P. Grids | 50, 125, 200, 333, 500 | 89,000 | 1:13.3 | Q | 2" | 3 ¹ / ₄ " | 1 ³ / ₄ " | 1.0 | 5.20 |
| A-4409 | S.B. or D.B. Microphone or line | P.P. Grids | 50, 125, 200, 333, 500 | 157,000 | 1:17.7 | D | 3 ¹ / ₈ " | 2 ⁵ / ₈ " | 3 ¹ / ₈ " | 2.6 | 9.50 |
| A-4705 | S.B. Microphone | Single Grid | 200 or 70 | 80,000 | 1:20 | A | 1 ³ / ₈ " | 2 ³ / ₈ " | 1 ³ / ₈ " | 0.5 | 2.35 |
| A-4728 | 1, 2, 3, or 4 Circuit Mixer | Single Grid | 50, 100, 150, 200 | 100,000 | 1:22.2 | TD | 2 ¹¹ / ₁₆ " | 2 ³ / ₄ " | 2 ³ / ₁₆ " | 1.8 | 6.95 |

Microphone or Line to Line Transformers

| | | | | | | | | | | |
|--------|-------------------------|------|------------------------|------------------------|---|---------------------------------|---------------------------------|---------------------------------|-----|--------|
| A-4350 | Sgl. or D.B. microphone | Line | 50, 125, 200, 333, 500 | 50, 125, 200, 333, 500 | Q | 2" | 3 ¹ / ₄ " | 1 ³ / ₄ " | 1.0 | \$5.60 |
| A-4407 | Sgl. or D.B. microphone | Line | 50, 125, 200, 333, 500 | 50, 125, 200, 333, 500 | D | 3 ¹ / ₈ " | 2 ⁵ / ₈ " | 3 ¹ / ₄ " | 2.6 | 9.60 |

Line to Voice Coil Transformers

| Stancor No. | For Coupling | Primary Impedance | Secondary Impedance | Max. Audio Watts | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|--|--|---|------------------|-----------|----------------------------------|-----------------------------------|-----------------------------------|--------------|------------|
| | | | | | | H | W | D | | |
| A-7947 | Line to voice coil | 500, 1,000, 1,500, 2,000 | 6 ohms | 8 | Q | 1 ⁵ / ₈ " | 2 ¹¹ / ₁₆ " | 1 ³ / ₁₆ " | 0.8 | \$2.90 |
| A-7949 | Line to voice coil | 500, 1,000, 1,500, 2,000 | 6-8 ohms | 12 | J | 2 ³ / ₁₆ " | 2 ⁷ / ₈ " | 1 ¹³ / ₁₆ " | 0.9 | 3.45 |
| A-3882 | Line to voice coil | 250, 333, 500 | 4, 8, 15 | 25 | D | 3 ¹ / ₁₆ " | 2 ⁵ / ₈ " | 3 ¹ / ₈ " | 2.6 | 7.25 |
| A-3883 | Line to voice coil | 500 | 4, 6, 8, 15 | 25 | J | 2 ³ / ₁₆ " | 2 ⁷ / ₈ " | 1 ³ / ₄ " | 1.5 | 3.90 |
| A-3818 | Line to voice coil | 500, 1,000, 1,500 | 4, 8, 15 | 25 | J | 3 ¹ / ₈ " | 3 ⁵ / ₈ " | 2 ¹ / ₄ " | 2.6 | 4.75 |
| A-3820 | Line to voice coil | 500, 1,000, 1,500, 2,000 | 4, 8, 15 | 40 | D | 4 ¹ / ₁₆ " | 3 ⁵ / ₈ " | 4 ¹ / ₂ " | 5.8 | 9.95 |
| A-3838 | Line to speakers autotformer | 500 | 250, 166, 125, 100, 84 | 30 | B | 3 ¹ / ₈ " | 2 ¹ / ₂ " | 2 ¹ / ₄ " | 2.6 | 5.75 |
| A-3837 | Line to voice coil. 1 to 6 can be paralleled across 500 ohm line | 500, 1,000, 1,500, 2,000, 2,500, 3,000 | .06 to 8 ohm from primary of 500 ohms—12 to 16 from 1,000, etc. | 15 | J | 2 ⁵ / ₁₆ " | 2 ⁷ / ₈ " | 2" | 2.0 | 5.00 |

Input Transformer—Intercommunication

| Stancor No. | From | To | Impedance in Ohms | | Core Size | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price | |
|-------------|------------|-----------|-------------------|--------|-----------|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------|--------|
| | | | Pri. | Sec. | | | H | W | D | | | |
| A-4744 | Voice Coil | Sgl. Grid | 4 | 25,000 | 1/2"x5/8" | VE | 1 ³ / ₈ " | 2 ³ / ₈ " | 1 ¹ / ₂ " | 2 ³ / ₈ " | 0.5 | \$2.45 |

Transceiver Transformers

| Stancor No. | Application | Impedance in Ohms | | Max. Pri. Ma. D.C. | Max. Audio Watts | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|--|-------------------|-------------|--------------------|------------------|-----------|----------------------------------|---------------------------------|---------------------------------|--------------|------------|
| | | Pri. | Sec. | | | | H | W | D | | |
| A-3833 | Sgl. Button Micro. and Plate to Single Grid. | 5,000 200 | 60,000 | 60 | 5 | A | 1 ⁵ / ₈ " | 2 ⁷ / ₈ " | 1 ¹ / ₂ " | 0.7 | \$3.40 |
| A-4413 | Sgl. Button Micro. and Plate to Single Grid. | 10,000 200 | 90,000 | 45 | 10 | J | 2 ⁵ / ₁₆ " | 2 ⁷ / ₈ " | 1 ³ / ₄ " | 1.5 | 4.75 |
| A-3836 | Pentode Plate to Low or High Impedance Phone or Oscillator | 10,000 | 2,000 50 | 30 | 5 | A | 1 ⁵ / ₈ " | 2 ⁷ / ₈ " | 1 ¹ / ₂ " | 0.7 | 3.30 |

Tone Control Unit

The necessary components for a dual tone control circuit to provide both bass and treble attenuation when used in conjunction with two dual 250,000 ohm potentiometers. Contained in Hi-Fi-type W-1 cast case for shielding against hum pickup and provided with 12 Flexible

Coded Leads for direct connection in the circuit. Dimensions H.3¹/₂" x W.2³/₄" x L.3¹/₈". Packed with complete instructions for installation and use.

STANCOR No. C-2332-1

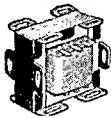
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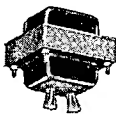
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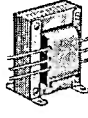
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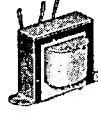
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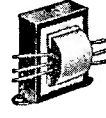
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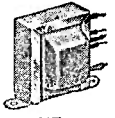
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S



TD



VE



TRANSFORMERS

REACTORS POWER PACKS TRANSMITTERS

Testing Autoformer

Incorporates a convenient tap switch to permit variable voltages from 90 to 150 volts. Primary equipped with 5 ft. approved cord and plug.

Secondary connected to female receptacle. Locking screw mounted on switch.

| Stancor No. | Secondary Voltage | Primary Voltage | Output Watts | Type Mounting | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|---|-----------------|--------------|---------------|-------------------|-------------------|-------------------|--------------|------------|
| | | | | | H | W | D | | |
| P-6299 | 90, 100, 110, 120, 130, 140, 150, @ 50-60 cy. | 115V | 150 | KA | 3 $\frac{3}{8}$ " | 3 $\frac{1}{4}$ " | 4 $\frac{3}{4}$ " | 8.0 | \$14.95 |

Step-Down Autoformers

These transformers are excellent units to be used with standard apparatus on 220-250 volt lines. May also be wired to step up 110-125

volts to 220-250 volts for test purposes or other applications.

| Stancor No. | Primary | | Secondary Volts | Output Watts | Type Mounting | Mounting Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|---------|--------|-----------------|--------------|---------------|---------------------|-------------------|-------------------|--------------|------------|
| | Volts | Cycles | | | | H | W | D | | |
| P-6287 | 220-250 | 50-60 | 110-125 | 40 | * | 4 $\frac{1}{4}$ " | 3" | 3" | 2.5 | \$7.00 |
| P-5062 | 220-250 | 50-60 | 110-125 | 80 | K | 3 $\frac{5}{8}$ " | 2 $\frac{1}{2}$ " | 3 $\frac{1}{4}$ " | 4.5 | 8.40 |
| P-5063 | 220-250 | 50-60 | 110-125 | 100 | K | 3 $\frac{7}{8}$ " | 3 $\frac{1}{4}$ " | 3 $\frac{1}{4}$ " | 5.2 | 9.65 |
| P-5064 | 220-250 | 50-60 | 110-125 | 150 | K | 4 $\frac{1}{4}$ " | 3 $\frac{1}{2}$ " | 3 $\frac{3}{8}$ " | 6.6 | 11.00 |
| P-5065 | 220-250 | 50-60 | 110-125 | 250-300 | K | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 4 $\frac{1}{8}$ " | 9.8 | 13.90 |
| P-6141 | 220-250 | 50-60 | 110-125 | 500 | K | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 5 $\frac{1}{4}$ " | 14.5 | 21.00 |
| P-6124 | 220-250 | 50-60 | 110-125 | 1000 | F | 7 $\frac{3}{8}$ " | 6" | 6 $\frac{1}{8}$ " | 30.0 | 40.00 |

* Mounted in special can and equipped with cord, plug and receptacle.

Isolation Transformers

These transformers are designed with an electrostatic shield to isolate line noises and interference from the apparatus being used. They are suitable for screen test booths, electrical therapeutic machines, medical instruments, beauty parlor equipment, electric furnaces, amateur

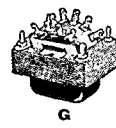
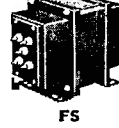
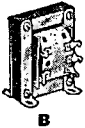
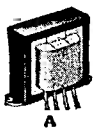
transmitters, etc. Each unit complete with a 6 ft. cord and plug and a female receptacle. Units in first group are straight isolation types; second group are step-down isolation units. Tap switch controls primary voltage, except on Nos. P-6123, P-6125, P-6389 and P-6390.

| Stancor No. | Watts | Primary | Secondary | Type Mounting | Mounting Dimensions | | | Weight in Carton | List Price |
|-------------|-------|-------------|-----------|---------------|---------------------|-------------------|-------------------|------------------|------------|
| | | | | | H | W | D | | |
| P-6160 | 100 | 125/115/105 | 115 | KA | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 3 $\frac{3}{8}$ " | 5.5 lbs. | \$17.25 |
| P-6161 | 250 | 125/115/105 | 115 | KA | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 5 $\frac{1}{4}$ " | 14.0 lbs. | 34.00 |
| P-6298 | 500 | 125/115/105 | 115 | FK | 7 $\frac{3}{8}$ " | 6" | 6 $\frac{1}{4}$ " | 37.0 lbs. | 49.50 |
| P-6125 | 1000 | 125/115/105 | 115 | FK | 7 $\frac{1}{2}$ " | 7 $\frac{1}{8}$ " | 6 $\frac{1}{2}$ " | 50.0 lbs. | 60.90 |
| P-6123 | 1500 | 125/115/105 | 115 | FK | 7 $\frac{1}{2}$ " | 7 $\frac{1}{8}$ " | 7 $\frac{1}{2}$ " | 60.0 lbs. | 76.70 |
| P-6383 | 100 | 250/230/210 | 115 | KA | 4 $\frac{3}{4}$ " | 4" | 3 $\frac{3}{8}$ " | 7.3 lbs. | \$17.65 |
| P-6385 | 250 | 250/230/210 | 115 | KA | 4 $\frac{3}{4}$ " | 4" | 5 $\frac{3}{8}$ " | 14.2 lbs. | 29.80 |
| P-6387 | 500 | 250/230/210 | 115 | FK | 7 $\frac{5}{8}$ " | 6 $\frac{1}{8}$ " | 7 $\frac{1}{8}$ " | 29.5 lbs. | 45.95 |
| P-6389 | 1000 | 250/230/210 | 115 | FK | 7 $\frac{3}{4}$ " | 7 $\frac{3}{8}$ " | 6 $\frac{3}{8}$ " | 34.8 lbs. | 60.90 |
| P-6390 | 1500 | 250/230/210 | 115 | FK | 7 $\frac{3}{4}$ " | 7 $\frac{3}{8}$ " | 8 $\frac{1}{2}$ " | 49.8 lbs. | 76.70 |

Universal Speaker Field Substitute Choke

Designed for the service department, to take the place of the speaker field on the test bench. Packed with full instructions.

| Stancor No. | D.C. Resistance in Ohms | Resistance and Current Rating | Type Mounting | Dimensions | | | Weight in Ctn. | List Price |
|-------------|-----------------------------------|---|---------------|-------------------|-------------------|----|----------------|------------|
| | | | | H | W | D | | |
| C-2302 | 3000 tapped at 2500, 1000 and 750 | 250, 750, 1000, 1750 ohms—60 Ma. cont. or 75 Ma. Int. Duty 500, 1500, 2000, 2250, 2500, 3000 ohms—40 Ma. cont. or 55 Ma. Int. Duty | B | 3 $\frac{3}{8}$ " | 2 $\frac{7}{8}$ " | 3" | 2.6 | \$7.50 |



TRANSFORMERS

REACTORS

POWER PACKS

TRANSMITTERS



Filter Chokes—Replacement Types

| Stancor No. | Rated Inductance in Henries | Maximum Current in Ma. | D.C. Resistance in Ohms | Volts Insulation | Type Mounting | Mounting Dimensions | | | Weight in Ctn. | List Price |
|-------------|-----------------------------|------------------------|-------------------------|------------------|---------------|---------------------|----------|----------|----------------|------------|
| | | | | | | H | W | D | | |
| C-1515 | 20 | 15 | 900 | 1650 | A | 1 5/8" | 2 1/8" | 1 3/4" | 0.7 | \$1.80 |
| C-1706 | 4.5 | 50 | 300 | 1650 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 1.60 |
| C-1707 | 7 | 50 | 500 | 1650 | A | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | 1.60 |
| C-1003 | 16 | 50 | 580 | 1650 | A | 1 7/8" | 3 3/16" | 1 5/8" | 1.4 | 2.15 |
| C-1708 | 13 | 65 | 460 | 1650 | A | 1 7/8" | 3 1/4" | 2 13/16" | 1.1 | 2.35 |
| C-1355 | 8 | 75 | 275 | 1650 | L | 2 1/4" | 2 3/16" | 1 3/4" | 1.2 | 2.50 |
| C-1002 | 15 | 75 | 400 | 1650 | A | 2 1/4" | 3 11/16" | 1 7/8" | 1.7 | 2.95 |
| C-1420 | 16 | 80 | 350 | 2000 | C | 3 3/16" | 2 5/8" | 2 1/2" | 2.6 | 4.30 |
| C-1709 | 8 | 85 | 250 | 1650 | A | 1 7/8" | 3 1/4" | 2 13/16" | 1.5 | 2.75 |
| C-2305 | 5 | 100 | 275 | 2000 | TD | 2 11/16" | 2 3/4" | 2 3/16" | 1.7 | 4.00 |
| C-1001 | 10.5 | 110 | 200 | 3000 | A | 2 1/2" | 4" | 2" | 2.4 | 3.70 |
| C-2303 | 2.5 | 130 | 100 | 2000 | A | 2" | 3 3/8" | 1 5/8" | 1.4 | 2.50 |
| C-1421 | 7 | 140 | 160 | 3000 | C | 3 3/16" | 2 5/8" | 2 1/2" | 2.7 | 5.30 |
| C-2304 | 2.3 | 150 | 65 | 2000 | A | 2" | 3 3/8" | 1 5/8" | 1.4 | 2.60 |
| C-2309 | 3 | 150 | 90 | 2000 | A | 2 1/4" | 3 11/16" | 1 5/8" | 1.5 | 2.80 |
| C-1710 | 7 | 150 | 200 | 1650 | A | 2 1/2" | 4" | 2 1/16" | 2.3 | 3.50 |

Filter Chokes—Heavy Duty Types

| | | | | | | | | | | |
|--------|-----|-----|-----|------|----|---------|----------|--------|------|-------|
| C-1410 | 4.0 | 175 | 100 | 3000 | C | 3 3/16" | 2 5/8" | 2 1/2" | 2.7 | 5.10 |
| C-1646 | 5.0 | 200 | 70 | 5000 | C | 4" | 3 1/4" | 3 3/8" | 4.7 | 7.30 |
| C-1411 | 4.5 | 200 | 80 | 3000 | C | 3 3/8" | 2 13/16" | 3 1/4" | 4.0 | 6.30 |
| C-1721 | 8.5 | 200 | 120 | 3000 | N | 4" | 3 1/8" | 3 1/4" | 4.5 | 6.30 |
| C-1703 | 4.0 | 250 | 60 | 3000 | B | 3 1/2" | 2 13/16" | 3 1/2" | 3.9 | 6.95 |
| C-1412 | 4.0 | 250 | 60 | 3000 | C | 3 3/8" | 2 13/16" | 3 1/4" | 4.8 | 7.70 |
| C-1722 | 8.0 | 300 | 80 | 3000 | N | 4 1/2" | 3 3/4" | 3 1/2" | 8.5 | 8.50 |
| C-2308 | 8.0 | 300 | 80 | 3000 | C | 4 3/8" | 3 3/8" | 3 3/8" | 9.0 | 9.90 |
| C-1413 | 8.0 | 300 | 80 | 5000 | D | 4 3/8" | 3 3/8" | 3 3/8" | 8.5 | 11.50 |
| C-1414 | 7.5 | 400 | 60 | 5000 | D | 4 3/8" | 3 3/8" | 4 1/8" | 13.5 | 15.85 |
| C-1415 | 6.0 | 500 | 70 | 7500 | FS | 8 5/16" | 6" | 5 3/4" | 17.0 | 32.80 |

Swinging Chokes

| | | | | | | | | | | |
|--------|----------|-----|-----|------|----|---------|----------|--------|------|--------|
| C-1718 | 13.5-3.5 | 150 | 130 | 2000 | C | 3 3/16" | 2 5/8" | 2 1/2" | 2.5 | \$5.00 |
| C-1400 | 12-2 | 175 | 100 | 3000 | C | 3 3/16" | 2 5/8" | 2 1/2" | 2.7 | 5.30 |
| C-1401 | 12-2 | 200 | 80 | 3000 | C | 3 3/8" | 2 13/16" | 3 1/8" | 3.5 | 6.50 |
| C-1645 | 12-2 | 200 | 90 | 5000 | C | 3 7/8" | 3 1/4" | 3 3/8" | 4.7 | 7.30 |
| C-1719 | 18-3 | 200 | 120 | 3000 | N | 3 3/4" | 3 1/8" | 3 1/4" | 5.0 | 6.95 |
| C-1702 | 12-2 | 250 | 60 | 3000 | B | 3 1/2" | 2 13/16" | 3" | 3.9 | 6.95 |
| C-1402 | 12-2 | 250 | 60 | 3000 | C | 3 3/8" | 2 13/16" | 3 1/8" | 4.6 | 7.70 |
| C-1720 | 20-4 | 300 | 80 | 3000 | N | 4 1/4" | 3 3/4" | 3 1/2" | 8.5 | 8.80 |
| C-2307 | 20-4 | 300 | 80 | 3000 | C | 4 3/8" | 3 7/8" | 3 3/8" | 9.0 | 9.90 |
| C-1403 | 20-4 | 300 | 80 | 5000 | D | 4 3/8" | 3 7/8" | 3 7/8" | 8.4 | 11.25 |
| C-1404 | 17-3 | 400 | 60 | 5000 | D | 4 3/8" | 3 7/8" | 4 1/8" | 12.3 | 15.85 |
| C-1405 | 16-4 | 500 | 75 | 7500 | FS | 8 5/16" | 6" | 5 3/4" | 17.0 | 32.80 |

A.C.-D.C. Chokes

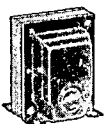
| | | | | | | | | | | |
|--------|-----|----|-----|------|---|--------|--------|--------|-----|--------|
| C-1711 | 4.5 | 50 | 325 | 1500 | Q | 1 3/8" | 2 3/8" | 1 3/8" | 0.5 | \$1.75 |
| C-1723 | 4.5 | 50 | 325 | 1500 | A | 1 3/8" | 1 3/8" | 1 3/8" | 0.5 | 1.70 |
| C-1080 | 3.5 | 50 | 200 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.70 |
| C-1325 | 5.0 | 50 | 250 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.75 |
| C-1277 | 7.0 | 50 | 300 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.75 |
| C-1227 | 7.0 | 50 | 350 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.75 |
| C-1279 | 8.5 | 50 | 400 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.75 |
| C-1333 | 8.0 | 50 | 450 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.80 |
| C-1215 | 9.0 | 50 | 500 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.75 |
| C-1362 | 9.5 | 50 | 550 | 1500 | A | 1 3/8" | 2 7/8" | 1 3/4" | 0.6 | 1.80 |

Output Chokes

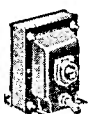
| | | | | | | | | | | |
|---------|------|----|------|------|---|----|--------|--------|-----|--------|
| C-1003 | 16.0 | 50 | 550 | 1500 | A | 2" | 3 1/4" | 1 3/4" | 1.4 | \$2.15 |
| C-1034* | 8.0 | 30 | 1365 | 1500 | A | 2" | 3 1/4" | 1 3/4" | 1.3 | 2.65 |

Audio Reactor

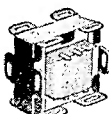
| Stancor No. | Rated Inductance in Henries | Inductance Measured at Ma. | Maximum Current Ma. | D.C. Res. Ohms | Volts Insulation | Type Mounting | Mounting Dimensions | | | Weight in Ctn. | List Price |
|-------------|-----------------------------|----------------------------|---------------------|----------------|------------------|---------------|---------------------|--------|---------|----------------|------------|
| | | | | | | | H | W | D | | |
| C-2301 | 135.0 | 5 | 10 | 6500 | 1500 | TD | 2 11/16" | 2 3/4" | 2 3/16" | 1.8 | 5.20 |



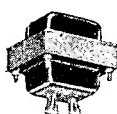
K



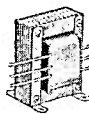
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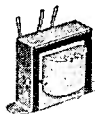
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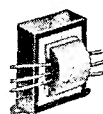
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N



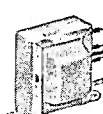
Q



S



TD



VE



TRANSFORMERS

REACTORS

POWER PACKS

TRANSMITTERS

Plate Transformers

This group of transformers is designed primarily to deliver the rated D.C. voltage and current outputs when used with full-wave mercury vapor rectifier tubes in conjunction with a two section filter employing choke input and two 2 mfd. condensers working into a resistive load.

Generous coil and core design result in a transformer with above average regulation and efficiency. Phenolic terminal boards and heavy duty ceramic insulators assure protection from voltage breakdown.

| Stancor No. | Primary Voltage | D.C. Voltage After Filter | Taps | M.A. D.C. | | Type Mounting | Mounting Dimensions | | | Weight in Ctn. | List Price |
|-------------|-----------------|---------------------------|--------|-----------|---------|---------------|---------------------|--------|--------|----------------|------------|
| | | | | ICAS | CCS | | H | W | D | | |
| P-8040 | 115 | 400 | 40 | 375 | 300 | C | 4 3/4" | 4" | 4 1/2" | 12.3 | 514.25 |
| P-8041 | 115 | 500 | 400-40 | 310 | 250 | C | 4 3/4" | 4" | 5 1/2" | 9.0 | 17.50 |
| P-8042 | 115 | 600 | 400-40 | 375 | 300 | C | 4 3/4" | 4" | 6 1/2" | 16.5 | 23.50 |
| P-8043 | 115 | 750 | 600-40 | 375 | 300 | FS | 7 1/2" | 6 1/2" | 8" | 27.2 | 43.50 |
| P-8044* | 115 | 1000 | 400 | 190-190 | 150-150 | FS | 7 1/2" | 6 1/2" | 8 1/4" | 28.0 | 45.50 |
| P-8045 | 115 | 1000 | 750 | 310 | 250 | FS | 7 1/2" | 6 1/2" | 8" | 27.2 | 43.50 |
| P-8025 | 115 | 1000 | 750 | 500 | 400 | FS | 7 1/2" | 6 1/2" | 8 3/4" | 35.5 | 45.80 |
| P-8026 | 115 | 1250 | 1000 | 375 | 300 | FS | 7 5/8" | 7 3/8" | 8 1/4" | 36.0 | 54.00 |
| P-8027 | 115 | 1250 | 1000 | 625 | 500 | FS | 7 5/8" | 7 3/8" | 9" | 40.0 | 58.80 |
| P-8028 | 115 | 1500 | 1250 | 375 | 300 | FS | 7 5/8" | 7 3/8" | 8 1/2" | 38.0 | 56.00 |
| P-8029 | 115-230 | 1500 | 1250 | 625 | 500 | FS | 11 1/4" | 7 3/8" | 8 3/4" | 52.0 | 74.00 |
| P-8030 | 115 | 1750 | 1500 | 375 | 300 | FS | 7 5/8" | 7 3/8" | 9" | 40.0 | 62.00 |
| P-8031 | 115-230 | 1750 | 1500 | 625 | 500 | FS | 11 1/4" | 7 3/8" | 8 3/4" | 52.0 | 88.50 |
| P-8032 | 115 | 2000 | 1750 | 375 | 300 | FS | 7 5/8" | 7 3/8" | 9 1/4" | 45.0 | 71.00 |
| P-8033 | 115-230 | 2000 | 1750 | 625 | 500 | FS | 11 1/4" | 7 3/8" | 9 1/2" | 57.0 | 102.00 |
| P-8034 | 115-230 | 2500 | 2000 | 375 | 300 | FS | 11 1/4" | 7 3/8" | 8 3/4" | 52.0 | 86.80 |
| P-8035 | 115-230 | 2500 | 2000 | 575 | 500 | FS | 11 1/4" | 7 3/8" | 9 3/4" | 60.0 | 112.00 |

* Secondary with taps suitable for dual rectifier supply. Each output available at rated current.

NOTE: Transformers with more than one high voltage output have secondary with taps suitable for dual rectifier supply. Total current should not exceed rating.

Bias Transformers

| Stancor No. | D.C. Output | | Filament | | Primary Volts | Type Mounting | Dimensions | | | Weight in Ctn. | List Price |
|-------------|-----------------|-----|----------|-------|---------------|---------------|------------|--------|--------|----------------|------------|
| | Volts | Ma. | Volts | Amps. | | | H | W | D | | |
| P-6317 | 90-130-170-200 | 200 | 5 C.T. | 3 | 115 | CD | 3 7/8" | 3 1/4" | 3 3/4" | 4.9 | 514.00 |
| P-6318 | 250-350-400-450 | 200 | 5 C.T. | 3 | 115 | CD | 4 1/4" | 3 3/8" | 4 1/4" | 7.0 | 16.00 |

Above plate and bias transformers are for listed voltage 60 cycle operation. Other voltage and frequency combinations available on special order. Write for quotations.

Stancor's Power Pack - Model 752

CONTINUOUS OUTPUT RATING—6 Volts @ 12.5 Amperes D.C.—5% max. ripple at full load.

INTERMITTENT OUTPUT RATING—25.0 Amperes D.C. For use with push-button or floor-switch magnetic tuning of all popular car radio receivers.

CONTINUOUS VOLTAGE CHECK—Built-in voltmeter for visual checking of output voltage.

ADJUSTABLE VOLTAGE CONTROL—Tap switch provides selection of proper output voltage for various loads.

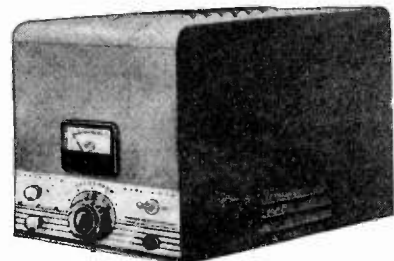
CONSERVATIVE RATING—Built with heavy duty components throughout.

HIGH OVERLOAD CAPACITY—Low internal resistance—good voltage regulation provide high output current capability for intermittent loads.

CONTROL PANEL—Readily accessible at front of case.

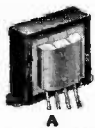
STURDY STEEL CASE—Featuring mechanical strength—neat appearance.

User's Net \$43.90



FOR DEMONSTRATING AND SERVICING

- AUTO RADIOS AND OTHER AUTO ACCESSORIES
- BATTERY CHARGING
- OPERATING RELAYS AND SOLENOIDS
- REPLACING STORAGE BATTERIES
- LABORATORY TESTING
- BRUSH PLATING



TRANSFORMERS



REACTORS POWER PACKS TRANSMITTERS

Filament Transformers—Single Secondary

This group of filament transformers represents a complete listing of all commonly used electrical and physical specifications for units of this type. All transformers except those especially indicated have center taps. They are designed to provide accurate voltage output

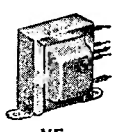
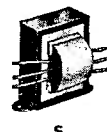
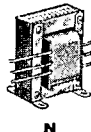
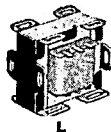
at rated loads with good regulation. Generous insulation provides a safety factor over and above the test voltage as indicated. Each group of transformers by voltage ratings is available in several convenient mounting styles which lend themselves to most applications.

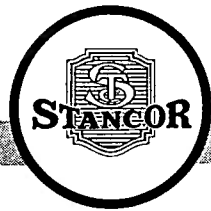
| Stancor No. | Primary Voltage | Secondary | | Type Mounting | Mounting Dimensions | | | Sec. Volts Insulation | Weight in Ctn. | List Price |
|-------------|-----------------|--------------|---------|---------------|---------------------|----------|---------|-----------------------|----------------|------------|
| | | Volts | Amperes | | H | W | D | | | |
| P-4026 | 115 | 2.5 C.T. | 1.5 | A | 1 1/16" | 1 1/16" | 2 3/16" | 2,500 | 0.5 | 53.00 |
| P-4082 | 105-115 | 2.5 C.T. | 2.5 | TD | 2 11/16" | 2 3/4" | 2 3/16" | 2,500 | 1.4 | 6.00 |
| P-6133 | 115 | 2.5 C.T. | 5 | S | 2 11/16" | 2 1/2" | 2 3/4" | 7,500 | 2.7 | 4.50 |
| P-4083 | 105-115 | 2.5 C.T. | 6 | C | 3 3/8" | 2 5/8" | 2 3/8" | 2,500 | 2.2 | 6.50 |
| P-3024 | 105-115 | 2.5 C.T. | 10 | C | 3 3/8" | 2 5/8" | 2 5/8" | 2,500 | 2.7 | 6.25 |
| P-3060 | 115 | 2.5 C.T. | 10 | B | 3 1/2" | 2 13/16" | 2 1/2" | 10,000 | 3.0 | 5.70 |
| P-3025 | 105-115 | 2.5 C.T. | 10 | FA | 5" | 4 1/4" | 8 1/2" | 10,000 | 5.3 | 16.50 |
| P-3026 | 105-115 | 5.0 C.T. | 3 | C | 3 3/8" | 2 5/8" | 2 5/8" | 2,500 | 2.5 | 6.00 |
| P-4088 | 115 | 5.0 C.T. | 3 | B | 3 3/8" | 2 1/2" | 2 1/8" | 2,500 | 2.0 | 4.80 |
| P-3062 | 115 | 5.0 C.T. | 6 | B | 3 3/8" | 2 1/2" | 2 3/4" | 2,500 | 2.5 | 5.50 |
| P-5000 | 105-115 | 5.0 C.T. | 6 | C | 3 3/8" | 2 5/8" | 2 3/4" | 2,500 | 3.2 | 6.50 |
| P-6135 | 115 | 5.0 C.T. | 10 | N | 3 3/8" | 2 5/8" | 3 1/4" | 2,500 | 3.1 | 6.00 |
| P-4086 | 105-115 | 5.0 C.T. | 14 | FA | 5" | 4 1/4" | 8 1/2" | 10,000 | 9.4 | 19.50 |
| P-6302 | 105-115 | 5.0 C.T. | 22 | FA | 5" | 4 1/4" | 8 1/2" | 10,000 | 12.0 | 21.10 |
| P-6305 | 105-115 | 5.0 C.T. | 30 | FB | 5" | 4 1/4" | 10" | 10,000 | 17.1 | 22.00 |
| P-6137 | 115 | 5.25 C.T. | 13 | N | 3 7/8" | 3 1/4" | 3 3/8" | 2,500 | 4.2 | 7.60 |
| P-6134 | 115 | 6.3 C.T. | 1.2 | A | 1 1/8" | 2 13/16" | 1 1/2" | 2,500 | 0.6 | 2.65 |
| P-5014 | 115 | 6.3 C.T. | 3 | B | 3 3/8" | 2 1/2" | 2 1/4" | 2,500 | 2.0 | 4.50 |
| P-4019 | 105-115 | 6.3 C.T. | 4 | C | 3 3/8" | 2 5/8" | 2 5/8" | 2,500 | 2.8 | 5.75 |
| P-3064 | 115 | 6.3 C.T. | 6 | B | 3 3/8" | 2 1/2" | 2 3/4" | 2,500 | 2.4 | 5.50 |
| P-4089 | 105-115 | 6.3 C.T. | 6 | C | 3 5/8" | 2 13/16" | 3 1/8" | 2,500 | 3.7 | 6.50 |
| P-6308 | 105-115 | 6.3 C.T. | 10 | N | 3 3/8" | 2 13/16" | 3 3/8" | 2,500 | 4.0 | 6.40 |
| P-6309 | 115 | 6.3 C.T. | 20 | N | 4 5/8" | 3 3/8" | 3 3/4" | 2,500 | 7.5 | 12.50 |
| P-5015 | 115 | 7.5 C.T. | 4 | B | 3 3/8" | 2 1/2" | 2 1/2" | 2,500 | 2.5 | 4.50 |
| P-4091 | 105-115 | 7.5 C.T. | 5 | C | 3 5/8" | 2 13/16" | 2 7/8" | 2,500 | 4.0 | 7.75 |
| P-6138 | 115 | 7.5 C.T. | 8 | N | 3 3/4" | 3 1/4" | 3 1/2" | 2,500 | 4.1 | 7.60 |
| P-4092 | 105-115 | 7.5 C.T. | 8 | C | 3 3/8" | 3 1/4" | 3 3/8" | 2,500 | 5.6 | 8.00 |
| P-5016 | 115 | 10.0 C.T. | 4 | B | 3 1/2" | 3" | 2 7/8" | 2,500 | 3.0 | 6.00 |
| P-4096 | 105-115 | 10.0 C.T. | 5 | C | 3 1/2" | 3 1/4" | 3 3/4" | 2,500 | 4.6 | 8.25 |
| P-6139 | 115 | 10.0 C.T. | 8 | N | 3 1/2" | 3 1/4" | 3 1/2" | 2,500 | 4.1 | 7.45 |
| P-4097 | 105-115 | 10.0 C.T. | 8 | C | 3 3/8" | 3 1/4" | 3 3/8" | 2,500 | 5.8 | 8.50 |
| P-5002 | 105-115 | 10.0 C.T. | 12 | FA | 5" | 4 1/4" | 8 1/2" | 7,500 | 11.6 | 20.00 |
| P-3020 | 105-115 | 11.0 C.T. | 10 | C | 4 5/8" | 3 7/8" | 3 3/8" | 2,500 | 7.8 | 12.50 |
| P-6164 | 115 | *6.3, 5, 2.5 | 2.5 | B | 2 5/8" | 2 1/4" | 2 3/4" | 2,500 | 1.8 | 4.50 |

Multiple Secondary

| | | | | | | | | | | |
|--------|---------|---------------------------------------|--------------------------|---|--------|----------|--------|-------|-----|-------|
| P-5009 | 105-115 | 5.0 C.T. 6.3 C.T. | 3.0 6.0 | C | 3 7/8" | 3 1/4" | 3 3/8" | 2,500 | 4.7 | 10.65 |
| P-5008 | 105-115 | 5.0 C.T. 6.3 C.T. | 4.0 3.6 | C | 3 5/8" | 2 13/16" | 3 1/4" | 2,500 | 4.0 | 9.30 |
| P-4022 | 105-115 | 5.0 C.T. 6.3 C.T. | 6.0 6.0 | C | 3 7/8" | 3 1/4" | 3 3/8" | 2,500 | 5.0 | 10.50 |
| P-4090 | 115 | 6.3 C.T. 7.5 C.T. | 3.0 4.0 | B | 3 1/2" | 2 7/8" | 3" | 2,500 | 3.7 | 7.50 |
| P-6144 | 115 | 2.5 C.T. 5.0 C.T. 6.3 C.T. | 3.5 3.0 3.0 | C | 3 5/8" | 2 13/16" | 3 1/8" | 2,500 | 4.0 | 9.70 |
| P-6333 | 115 | 7.5, 6.3 C.T. *5.0 *5.0 *6.3 | 3.0 3.0 3.0 4.0 | B | 2 7/8" | 3 3/8" | 2 3/4" | 2,500 | 4.6 | 10.25 |
| P-6338 | 115 | 6.3 *2.5, *5.0 5.0 C.T. | 3.0 2.0 | N | 3 1/2" | 2 7/8" | 2 3/4" | 2,500 | 4.0 | 9.10 |

* Windings not center tapped. Other voltage and frequency combinations available on special order. Write for quotations.





TRANSFORMERS

REACTORS

POWER PACKS

TRANSMITTERS

Listings cover two distinct groups of transformers, universal or Poly-pedance and specific types. The latter group covers the most frequently used ratios, core sizes and mounting styles. They should be used in permanent installations whenever possible since their design permits the best efficiency and fidelity for units of this type. Poly-pedance

transformers are ideally suited for use in experimental or temporary equipment, such as schools, laboratories, etc., since they are provided with a large number of taps to permit the user to secure the widest practical range of impedance match. All units represent outstanding values.

Modulation Transformers—Poly-Pedance

| Stancor No. | Max. Aud. Watts | Pri. Ma. Per Side | Secondary Ma. | | Type Mounting | Dimensions | | | Weight in Ctn. | List Price |
|-------------|-----------------|-------------------|---------------|----------|---------------|--------------------|-------------------|-------------------|----------------|------------|
| | | | Series | Parallel | | H | W | D | | |
| A-3891 | 15 | 45 | 45 | 90 | D | 3 $\frac{3}{8}$ " | 2 $\frac{5}{8}$ " | 3 $\frac{1}{8}$ " | 2.5 | \$12.00 |
| A-3892 | 30 | 80 | 80 | 160 | D | 3 $\frac{7}{8}$ " | 3 $\frac{1}{4}$ " | 3 $\frac{7}{8}$ " | 6.0 | 12.00 |
| A-3893 | 60 | 125 | 125 | 250 | D | 3 $\frac{7}{8}$ " | 3 $\frac{1}{4}$ " | 4 $\frac{3}{8}$ " | 7.3 | 14.00 |
| A-3894 | 125 | 150 | 150 | 300 | D | 4 $\frac{1}{2}$ " | 3 $\frac{7}{8}$ " | 5" | 12.0 | 18.45 |
| A-3898 | 300 | 260 | 260 | 520 | FS | 7 $\frac{1}{2}$ " | 7 $\frac{1}{2}$ " | 9" | 40.0 | 57.85 |
| A-3899 | 600 | 350 | 350 | 700 | FS | 11 $\frac{1}{4}$ " | 7 $\frac{1}{2}$ " | 9" | 75.0 | 119.35 |

Plate Modulation Transformers

| Stancor No. | Output Tubes | Class | Impedance | | D.C. Pri. Ma. | D.C. Sec. Ma. | Max. Audio Watts | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|---|------------|-----------------|--|---------------|---------------|------------------|-----------|--------------------|-------------------|--------------------|--------------|------------|
| | | | Pri. | Sec. | | | | | H | W | D | | |
| A-3812 | 1-1G6, 1J6, 19, 6E6, 6G6, 6Z7; P.P. 1H4, 30, 49, 1-1G5, 6K6, 37, 38, 41 | B A | 10,000 | 4,000 | 32 | 50 | 5 | A | 1 $\frac{1}{2}$ " | 2 $\frac{3}{8}$ " | 1 $\frac{1}{2}$ " | 0.7 | \$2.90 |
| A-3871 | 1-6B5*, 6F6*, 6L6, 6N6*, HY69 | A1 | 4,500 | 8,500 | 60 | 50 | 10 | TD | 2 $\frac{1}{16}$ " | 2 $\frac{3}{4}$ " | 2 $\frac{3}{16}$ " | 1.8 | \$5.75 |
| A-3873 | P.P. 6L6, RK56, HY60 | AB1 | 8,500 | 8,000 | 100 | 100 | 25 | C | 3 $\frac{3}{16}$ " | 2 $\frac{5}{8}$ " | 3 $\frac{5}{8}$ " | 6.1 | 8.80 |
| A-3845 | 1-6A6, 6N7, 53, 79, 6Y7 P.P. 6F6, 6V6, 2A5, 42 | B AB2 | 10,000 | 3,000, 5,000 6,500, 8,000 | 100 | 100 | 25 | C | 3 $\frac{3}{16}$ " | 2 $\frac{5}{8}$ " | 2 $\frac{3}{4}$ " | 3.5 | 6.15 |
| A-38:5 | P.P. 2A3, 6A3, 45, 6A5, 6B4, 50; P.P. 6L6 | AB A1 | 3,000 5,000 | 5,350, 8,350 10,000 | 80 | 100 | 25 | C | 3 $\frac{7}{8}$ " | 3 $\frac{1}{4}$ " | 3 $\frac{1}{8}$ " | 5.2 | 7.90 |
| A-3868 | P.P. 6L6 | AB1 | 6,600 | 10,000, 12,000 | 100 | 70 | 35 | C | 3 $\frac{3}{16}$ " | 2 $\frac{5}{8}$ " | 3 $\frac{5}{8}$ " | 6.1 | 8.40 |
| A-3808 | P.P. 6L6, 807, HY61, RK41 P.P. PAR. 6L6 | AB2 AB1 | 3,800 3,300 | 4,000, 5,000 7,500, 10,000 | 260 | 170 | 60 | D | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 4 $\frac{3}{4}$ " | 7.7 | 13.25 |
| A-2907 | P.P. 10, T20, TZ20, HY25, 46, 801, 825, 841 | B | 8,000 | 3,300, 5,000 6,800, 9,000 12,500 | 200 | 150 | 90 | D | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 5 $\frac{1}{4}$ " | 10.2 | 14.55 |
| A-2908 | P.P. RK18, T20, TZ20, HY25, RK31, 35T, 50T, 800, 801, 830B, 1623 | B | 7,200 12,000 | 3,000, 4,500 5,350, 6,250 | 260 | 220 | 120 | D | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 5 $\frac{5}{8}$ " | 10.4 | 15.35 |
| A-3829 | P.P. RK12, HY25, 35T, HY40Z, T40, TZ40, 100TL, HK354, 756, 809, 830B | B | 6,900 9,000 | 3,300, 4,000 5,000, 6,250 | 250 | 300 | 175 | D | 4 $\frac{5}{8}$ " | 3 $\frac{7}{8}$ " | 6 $\frac{1}{8}$ " | 11.8 | 16.55 |

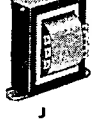
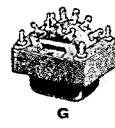
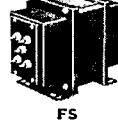
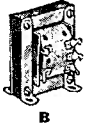
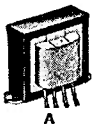
* Secondary winding used as primary.

Cathode Modulation Transformer

| Stancor | Impedance | | D.C. Pri. Ma. | D.C. Sec. Ma. | Max. Audio Watts | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|---------|------------------|--|---------------|---------------|------------------|-----------|-------------------|-------------------|-------------------|--------------|------------|
| | Primary | Secondary | | | | | H | W | D | | |
| A-3889 | 4000, 6000, C.T. | 150, 250, 500, 750, 1000, 1500, 2000, 2500 | 125 | 450-250 | 60 | D | 3 $\frac{7}{8}$ " | 3 $\frac{1}{4}$ " | 4 $\frac{1}{4}$ " | 4.8 | 12.55 |

Line to R.F. Load Modulation Transformer

| Stancor No. | Ohms Impedance | | D.C. Sec. Ma. | Max. Audio Watts | Type Mtg. | Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|----------------|---|---------------|------------------|-----------|--------------------|--------------------|-------------------|--------------|------------|
| | Primary | Secondary Load | | | | H | W | D | | |
| A-3866 | 500,200 | 5,000, 6,000, 7,000, 8,000, 9,000, 10,000 | 150 | 30 | D | 4 $\frac{3}{16}$ " | 3 $\frac{9}{16}$ " | 3 $\frac{1}{2}$ " | 6.5 | 12.15 |



TRANSFORMERS



REACTORS POWER PACKS TRANSMITTERS

Two distinct groups of driver transformers are shown. Tapped or Poly-pedance and specific or fixed ratio types. Poly-pedance units are especially designed for experimental and laboratory work where it is desirable to change the turns ratio to optimum value. Two power ratings one of which is applicable to circuits employing inverse

feedback and two line drivers are available. Specific types are listed in the most frequently used ratios, core sizes and mounting styles. They should be used wherever possible in permanent installations because their design permits the best efficiency and fidelity for units of this type.

Poly-Pedance Driver Transformers

| Stancor No. | Capacity in Watts | Primary Ma. per Side | Ratio Primary to 1/2 Secondary | Type Mtg. | Dimensions | | | Weight in Ctn. | List Price |
|-------------|-------------------|----------------------|--|-----------|------------|--------|--------|----------------|------------|
| | | | | | H | W | D | | |
| A-4761 | 15 | 60 | 1.25:1, 1.4:1, 1.6:1, 1.8:1, 2:1, 2.2:1, 2.4:1 | CD | 3 3/16" | 2 5/8" | 3 3/4" | 3.0 | \$13.00 |
| A-4762 | 15 | 60 | 2.6:1, 3:1, 3.2:1, 3.4:1, 4:1, 4.5:1, 5:1 | CD | 3 3/16" | 2 5/8" | 3 3/4" | 2.8 | 12.10 |
| A-4763 | 30 | 120 | 1.25:1, 1.5:1, 1.75:1, 2:1, 2.25:1, 3.2:1 | CD | 3 5/8" | 3" | 4" | 4.3 | 13.95 |

Poly-Pedance Line Driver Transformers

| Stancor No. | Capacity in Watts | Ratio Primary to 1/2 Secondary | Dimensions | | | Type Mtg. | Weight in Ctn. | List Price |
|-------------|-------------------|---|------------|--------|--------|-----------|----------------|------------|
| | | | H | W | D | | | |
| A-4765 | 15 | 1:0.75, 1:0.85, 1:1, 1:1.25, 1:1.45, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3.15 | 3 3/16" | 2 5/8" | 3 1/2" | CD | 3.0 | \$13.50 |
| A-4766 | 30 | 1:0.75, 1:0.85, 1:1, 1:1.25, 1:1.45, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3.15 | 3 3/8" | 3" | 3 3/4" | CD | 4.0 | 14.85 |

Driver Transformers

| Stancor No. | From | To | Class | Impedance | | Ratio Pri. to 1/2 Sec. | D.C. Pri. Ma. | Type Mtg. | Mounting Dimensions | | | Wgt. in Ctn. | List Price |
|-------------|--|--|------------|------------------|--------------------------|------------------------|---------------|-----------|---------------------|----------|---------|--------------|------------|
| | | | | Pri. | 1/2 Sec. | | | | H | W | D | | |
| A-4752† | P.P. or Sgl. 45, 6F6, 2A5, 42, 6K6, 6N7, 6C5 | P.P. 6K6, 2A5, 42, 6F6, 6L6, 6V6, 6Y6, 6Z7 | AB | 10,000 | 10,000 4,400 2,500 | 1:1 1.5:1 2:1 | 35 | S | 2 1/4" | 2 3/8" | 1 7/8" | 1.5 | \$4.00 |
| A-4405 | Sgl. 45, 6F6, 42, 2A5, 6K6, 41 | PP. 42, 89, 2A5, 6F6, 6V6, 6Z7 | B | 10,000 | 6,400 | 1.24:1 | 40 | C | 3 3/16" | 2 5/8" | 2 5/8" | 2.7 | 6.60 |
| A-4721 | Sgl. 2A3, 6A3, 45, 46, 59, 42, 6F6, 2A5, 89, 53, 6A6, 6N7, 6C5, 37, 30 1H4 | P.P. 1J6, 19, 79, 6Z7, 53, 6N7, 42, 45, 6F6, 46, 49, 2A5, 59, 89, 6K6, TZ20 | B | 10,000 22,500 | 2,500 | 2:1 3:1 | 30 | TD | 2 11/16" | 2 3/4" | 2 3/16" | 1.5 | 5.70 |
| A-4404 | P.P. 2A3, 6A3, 45, 6L6, 6V6 P.P. PAR. 2A3 6F6, 50, 42, 59 | P.P. 849, P.P. 800, 830B, 10, RK18, HF100, 811, P.P. 154, 812, 203A, 838, 211, 203Z, RK38, HF100, 100TL, HF200, 822, HD203A, 354, 150T | A B | 14,000 | 3,500 | 2:1 | 90 | C | 3 5/8" | 3" | 3 1/8" | 3.7 | 7.30 |
| A-4292 | Sgl. 6C5, 6J5, 30, 1H4, 49 | P.P. 1J6, 19, 79, 6Z7, 30 1H4, 49 | B | 10,000 | 1,600 | 2.5:1 | 10 | A | 1 5/8" | 2 13/16" | 1 1/2" | 0.7 | 2.60 |
| A-4208† | P.P. 6C5, 6J5, 6N7, 6L5, 56, 27, 76, 55, 85, 6R7 | P.P. 2A3, 2A5, 6A3, 6F6, 6L6, 6V6, 42, 45, 50, 59, 89 | AB | 25,000 | 3,200 | 2.79:1 | 15 | C | 3 3/16" | 2 5/8" | 2 5/8" | 2.5 | 6.00 |
| A-4210 | Sgl. 2A3, 6A3, 45, 46, 59, 2A5, 6F6, 42, 89, 6C5, 6N7, 76 | P.P. 2A3, 6A3, 46, 59, P.P. 2A5, 42, 45, 6F6, 6L6, 807 | B AB | 22,500 | 2,500 | 3:1 | 40 | C | 3 3/16" | 2 5/8" | 2 5/8" | 2.6 | 5.50 |
| A-4701† | P.P. 46, 89, 6C5, 6J5, 56, 37, 27, 76 | P.P. 6L6, 6V6, 6Y6, 42, 6F6, 45, 2A3, 6A3 | AB1 | 20,000 | 2,200 | 3.1:1 | 25 | C | 3 3/16" | 2 5/8" | 2 5/8" | 2.7 | 6.35 |
| A-4212 | P.P. 2A3, 6A3, 45, 6L6 | P.P. 801, 830B, 35T, 808, 838, RK57, HY40Z, 805, 828, 756, 100TL, 100TH, TZ20, T140, P.P. Par. 46, 59, PP. 807 | B | 25,600 | 2,500 | 3.2:1 | 50 | C | 3 3/16" | 2 5/8" | 2 5/8" | 2.6 | 6.15 |
| A-4216 | Sgl. 53, 6A6, 6N7, 79, 6E6 P.P. 53, 6A6, 6N7 | P.P. 53, 6A6, 6N7, 6E6, 6N6, 89, P.P. Par. 53, 6A6, 6N7 | B | 25,000 | 1,000 | 5:1 | 15 | TD | 2 11/16" | 2 3/4" | 2 3/16" | 1.5 | 5.50 |
| A-4416† | P.P. 2A3, 45, 46, 59, 6F6 P.P. 53, 6A6, 6N7 | P.P. 6L6, 6V6, P.P. Par. 46, 59, P.P. Par. 53, 6A6, 6N7 | AB2 B | 30,000 | 1,200 | 5:1 | 40 | C | 3 3/16" | 2 5/8" | 2 5/8" | 2.7 | 6.60 |
| A-4702† | Sgl. 2A3, 45, 46, 89, 2A5, 6F6, 42 | P.P. 6L6, 6V6, 6F6, 45, P.P. Par. 6L6 | AB2 AB1 | 50,000 | 2,000 | 5:1 | 80 | C | 3 3/16" | 2 5/8" | 2 5/8" | 2.7 | 5.80 |
| A-4703† | P.P. 2A3, 45, 46, 6L6, 89, 6F6, 2A5, 42 | P.P. 807, HY61, P.P. Par. 6L6 | AB2 | 10,000 | 325 | 5.6:1 | 95 | C | 3 5/8" | 3" | 3 1/8" | 3.8 | 7.50 |

† P.P. primary ratio is 2:1.

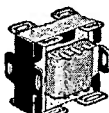
‡ Split Secondary.



CD



KA



L



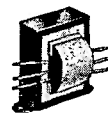
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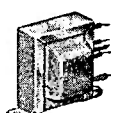
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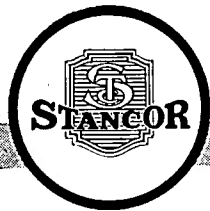
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TD



VE



TRANSFORMERS

REACTORS POWER PACKS TRANSMITTERS

STANCOR'S HF-WF HIGH FIDELITY AUDIO TRANSFORMERS

These new units will enhance the performance of the finest amplifier circuits, speakers, microphones and pickups. Vacuum impregnation and potted construction insure long life due to excellent protection against moisture. Sturdy cast cases are finished in flat gray enamel and contain four threaded holes at each end for flush mounting. Stud type terminals are provided on a phenolic panel with all terminals plainly marked for easy identification.

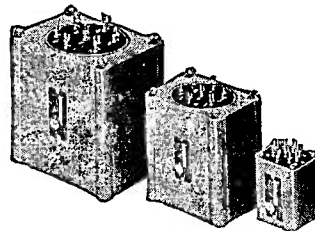
Wide range frequency response from 20 to 20,000 cps. within ± 1 db for the HF units and from 30 to 20,000 cps. within ± 2 db for the WF units.

Proper coil and core design reduces harmonic and intermodulation distortion to a negligible amount.

Special coil construction reduces leakage inductance and distributed capacity; results in uniform high response.

Balanced hum-bucking construction and/or high permeability magnetic shielding minimize hum pickup.

Nickel alloy laminations result in improved low frequency response in the smaller units where size and space are at a premium.



Low Impedance to Grid

| Stancor No. | Application | Primary Impedance | Secondary Impedance | Response ± 1 db from | Max. Pri. DC Ma. Unbalance | Max. Level in db | Hum Pickup Reduction | Mtg. | Wgt. Lbs. | List Price |
|---------------|--|---------------------------------|------------------------------------|--------------------------|----------------------------|------------------|----------------------|------|-----------|------------|
| HF-20 | Low Imp. Mike, Pickup or Mult Line to Grid | 50, 125, 200, 250, 333, 500/600 | 60,000 ohms overall, in two secs. | 20 to 20,000 cps. | 0.5 | 15 | -74 db | HF-1 | 3 | \$24.50 |
| HF-20X | Low Imp. Mike, Pickup or Mult Line to Grid | 50, 125, 200, 250, 333, 500/600 | 50,000 ohms | 20 to 20,000 cps. | 0.5 | 14 | -92 db | HF-1 | 3 | 31.25 |
| HF-22 | Low Imp. Mike, Pickup or Mult Line to P.P. Grids | 50, 125, 200, 250, 333, 500/600 | 120,000 ohms overall, in two secs. | 20 to 20,000 cps. | 0.5 | 15 | -74 db | HF-1 | 3 | 27.50 |
| HF-22X | Low Imp. Mike, Pickup or Line to P.P. Grids | 50, 125, 200, 250, 333, 500/600 | 80,000 ohms overall, in two secs. | 20 to 20,000 cps. | 0.5 | 14 | -92 dbQ | HF-1 | 3.0 | 34.25 |

Interstage

| | | | | | | | | | | |
|--------------|--|----------------------------|-----------------------------------|-------------------|------|----|--------|------|-----|-------|
| HF-29 | Sgl. Pl. to P.P. Grids—2A3, 6A3, 6B4-G, etc. | 15,000 ohms | 95,000 ohms overall | 20 to 20,000 cps. | 0.5 | 17 | -50 db | HF-1 | 3 | 23.50 |
| HF-31 | Sgl. Pl. to P.P. Grids, Split pri. and sec. | 15,000 ohms | 135,000. Turns ratio 3:1 overall | 20 to 20,000 cps. | .... | 14 | -74 db | HF-1 | 3.0 | 24.00 |
| HF-32 | P.P. Plates to P.P. Grids, Split pri. and sec. | 30,000 ohms Plate to Plate | 80,000. Turns ratio 1.6:1 overall | 20 to 20,000 cps. | 0.25 | 26 | -50 db | HF-2 | 7.5 | 30.50 |

Mixing

| | | | | | | | | | | |
|--------------|--|--------------------------------------|--------------------------------------|-------------------|-----|----|--------|------|---|-------|
| HF-40 | Low Imp. Mixer, Mike, Pickup or Mult Line to Mult Line | 50, 125, 200, 250, 333, 500/600 ohms | 50, 125, 200, 250, 333, 500/600 ohms | 20 to 20,000 cps. | 0.5 | 17 | -74 db | HF-1 | 3 | 24.50 |
|--------------|--|--------------------------------------|--------------------------------------|-------------------|-----|----|--------|------|---|-------|

Output

| | | | | | | | | | | |
|--------------|---|------------------------------------|--|-------------------|------|----|------|------|------|-------|
| HF-65 | P.P. 2A3, 6A3, 6B4-G, etc. to Line or VC | 3,000 or 5,000 ohms Plate to Plate | 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, or 500 | 25 to 20,000 cps. | 0.5 | 20 | — | HF-2 | 7.5 | 27.50 |
| HF-67 | P.P. 2A3's, 6A5-G's, 300A's, 275A's, 6A3's, 6L6's | 3,000 or 5,000 ohms Plate to Plate | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 20 to 20,000 cps. | 0.5 | 20 | .... | HF-2 | 7.5 | 20.00 |
| HF-68 | P.P. Par. 2A3's, 6A5-G's, 300A's, 6A3's | 1,500 or 2,500 ohms Plate to Plate | 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 20 to 20,000 cps. | .... | 40 | .... | HF-3 | 15.0 | 40.50 |

Input

| Stancor No. | Application | Primary Impedance | Secondary Impedance | Response ± 2 db from | Mtg. | Wgt. Lbs. | List Price |
|--------------|--|---|-------------------------------------|--|------|-----------|------------|
| WF-20 | Low Imp. Mike, Pickup or Mult Line to Sgl. Grid | 50, 125, 200/250, 333, 500/600 | 50,000 ohms | 30-20,000 | WF-6 | .6 | \$14.50 |
| WF-21 | Low Imp. Mike, Pickup or Mult Line to Sgl. or P.P. Grids | 50, 200, 500 | 50,000 ohms | 50-10,000 Multiple allow shield for extremely low hum pickup | WF-6 | .6 | 15.50 |
| WF-22 | Low Imp. Mike, Pickup or Line to P.P. Grids | 50, 125/150, 200/250, 333, 500/600 ohms | 80,000 ohms overall in two sections | 30-20,000 | WF-6 | .6 | 14.50 |
| WF-24 | Dynamic Mike to 1 or 2 Grids | 30 ohms | 50,000 ohms in two sections | 30-20,000 | WF-6 | .6 | 14.00 |

Interstage

| | | | | | | | |
|--------------|--|-------------|--|-----------|------|----|-------|
| WF-26 | Single Plate to Single Grid | 15,000 ohms | 60,000 ohms. 2:1 turns ratio | 30-20,000 | WF-6 | .6 | 12.75 |
| WF-28 | Sgl. Pl. to 2 Grids. Can use split pri. for P.P. Pl. | 15,000 ohms | 80,000 ohms overall. 2.3:1 turns ratio overall | 30-20,000 | WF-6 | .6 | 14.00 |

Low Level Output

| | | | | | | | |
|--------------|-------------------------------|----------------------------|---|-----------|------|----|-------|
| WF-34 | Sgl. Pl. to Mult Line | 15,000 ohms | 50, 125, 200/250, 333, 500/600 ohms | 30-20,000 | WF-6 | .6 | 14.50 |
| WF-35 | Single Plate to Multiple Line | 15,000 ohms | 50, 125/150, 200/250, 333, 500/600 ohms | 30-20,000 | WF-6 | .6 | 14.00 |
| WF-36 | P.P. Low Level Plates to Line | 30,000 ohms Plate to Plate | 50, 125/150, 200/250, 333, 500/600 | 30-20,000 | WF-6 | .6 | 15.00 |

Mixing

| | | | | | | | |
|--------------|--|-------------------------------------|-------------------------------------|-----------|------|----|-------|
| WF-30 | Low Imp. Mixer, Mike, Pickup or Mult Line to Mult Line | 50, 125, 200/250, 333, 500/600 ohms | 50, 125, 200/250, 333, 500/600 ohms | 30-20,000 | WF-6 | .6 | 14.50 |
|--------------|--|-------------------------------------|-------------------------------------|-----------|------|----|-------|

Dimensions: HF-1 Case, $3\frac{1}{4}"$ H x $3\frac{1}{16}"$ W x $2\frac{3}{16}"$ D. Mtg. ctrs., $1\frac{15}{16}"$ x $2\frac{1}{16}"$. HF-2 Case, $4\frac{1}{8}"$ H x $4\frac{3}{16}"$ W x $3\frac{3}{16}"$ D. Mtg. ctrs., $2\frac{1}{16}"$ x $3\frac{11}{16}"$. HF-3 Case, $4\frac{11}{16}"$ H x $5\frac{1}{16}"$ W x $4\frac{11}{16}"$ D. Mtg. ctrs., $4\frac{3}{16}"$ x $5\frac{1}{16}"$. WF-6 Case, $2"$ H x $1\frac{1}{2}"$ W x $1\frac{1}{2}"$ D. Mtg. ctrs., $1\frac{1}{32}"$ x $1\frac{1}{32}"$.

CHICAGO

NEW EQUIPMENT POWER TRANSFORMERS FILTER REACTORS



CHICAGO TRANSFORMER DIVISION * ESSEX WIRE CORPORATION

POWER TRANSFORMERS

The power transformers in the CHICAGO New Equipment Line are designed to provide plate and filament supply for from two to sixteen tubes in a wide range of applications. They are conservatively rated and will deliver full rated current and voltage with minimum temperature rise within RMA-recommended limits.

FILTER REACTORS

The CHICAGO filter reactors listed below have current ratings particularly suited for use with the power transformers above them, but will give equally satisfactory service in any other correct application. Their design provides maximum inductance for given current rating in the smallest practical size of unit.

POWER TRANSFORMERS — PLATE AND FILAMENT SUPPLY

For CAPACITOR INPUT SYSTEMS — Primary 117 Volts, 50-60 Cycles

| High Voltage Volts A-C | Secondary Ma. Output D-C V. D-C | Filaments | | Wt. Lbs. | Case Size | S-Type Mounting | | C-Type Mounting | | | |
|------------------------------|---------------------------------------|--------------------|-------|-------------|--------------|-----------------|-------|-----------------|---------------|-------------|---------------|
| | | Rectifier Volts | Amps. | | | Others Volts | Amps. | Cat. No. | List Price | Cat. No. | List Price |
| 270-0-270 | 55 260 | 5 | 2 | 6.3CT | 2 | 3 | F8 | PSC-55 | \$10.00 | PCC-55 | \$ 6.50 |
| 335-0-335 | 70 320 | 5 | 2 | 6.3CT | 3 | 4 1/4 | F9 | PSC-70 | 11.50 | PCC-70 | 8.00 |
| 330-0-330 | 85 320 | 5 | 2 | 6.3CT | 3 | 5 1/4 | F10 | PSC-85 | 13.25 | PCC-85 | 9.25 |
| 345-0-345 | 105 320 | 5 | 2 | 6.3CT | 3.5 | 6 | F10 | PSC-105 | 14.00 | PCC-105 | 10.00 |
| 375-0-375 | 120 380 | 5 | 3 | 6.3CT | 4 | 8 1/2 | F11 | PSC-120 | 14.75 | PCC-120 | 11.25 |
| 370-0-370 | 150 390 | 5 | 3 | 6.3CT | 4 | | | | | | |
| | | | | 6.3CT | 1 | 9 1/4 | F11 | PSC-150 | 19.50 | PCC-150 | 15.00 |
| 385-0-385 | 200 390 | 5 | 3 | 6.3CT | 4.5 | | | | | | |
| | | | | 6.3CT | 1 | 11 1/2 | F11 | PSC-200 | 20.75 | PCC-200 | 16.25 |

For REACTOR INPUT SYSTEMS — Primary 117 Volts, 50-60 Cycles

| | | | | | | | | | | | |
|--------------|---------|---|---|-------|-----|-------|-----|---------|-------|---------|-------|
| 350-0-350 | 55 260 | 5 | 2 | 6.3CT | 2 | 3 | F8 | PSR-55 | 10.25 | PCR-55 | 6.75 |
| 425-0-425 | 70 320 | 5 | 2 | 6.3CT | 3 | 4 1/4 | F9 | PSR-70 | 11.75 | PCR-70 | 8.25 |
| 440-0-440 | 85 325 | 5 | 2 | 6.3CT | 3 | 5 1/2 | F10 | PSR-85 | 13.50 | PCR-85 | 9.50 |
| 445-0-445 | 105 325 | 5 | 2 | 6.3CT | 3.5 | 5 3/4 | F10 | PSR-105 | 14.25 | PCR-105 | 10.25 |
| 500-0-500 | 120 400 | 5 | 3 | 6.3CT | 4 | 8 1/2 | F11 | PSR-120 | 15.00 | PCR-120 | 11.50 |
| 505-0-505 | 150 400 | 5 | 3 | 6.3CT | 4 | | | | | | |
| | | | | 6.3CT | 1 | 10 | F11 | PSR-150 | 19.75 | PCR-150 | 15.25 |
| 520-0-520 | 200 410 | 5 | 3 | 6.3CT | 4.5 | | | | | | |
| | | | | 6.3CT | 1 | 11 | F11 | PSR-200 | 21.00 | PCR-200 | 16.50 |
| 550-370-75-0 | | | | 6.3CT | 1 | | | | | | |
| -75-370-550 | 300 425 | 5 | 6 | 6.3CT | 5 | 16 | F12 | PSR-300 | 30.00 | PCR-300 | 23.50 |

FILTER REACTORS

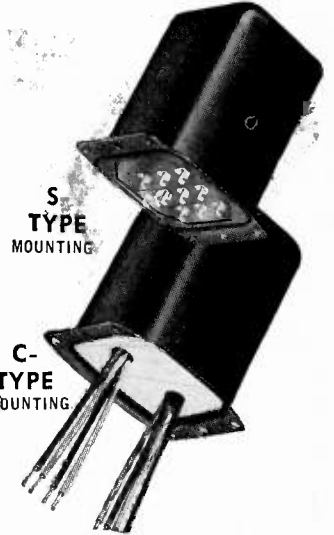
| Inductance in henries | Max. Current Ma. D-C | D-C Resistance in Ohms | Insulation Test Volts | Case Size | Wt. Lbs. | S-Type Mounting Cat. No. | List Price | C-Type Mounting Cat. No. | List Price |
|-----------------------------|----------------------------|------------------------------|--------------------------|--------------|-------------|--------------------------------|---------------|--------------------------------|---------------|
| 15 | 55 | 385 | 2,500 | F6 | 2 | RS-1555 | \$ 5.00 | RC-1555 | \$ 3.75 |
| 15 | 85 | 270 | 2,500 | F7 | 2 3/4 | RS-1585 | 6.00 | RC-1585 | 4.50 |
| 12 | 105 | 170 | 2,500 | F8 | 3 3/4 | RS-12105 | 6.50 | RC-12105 | 5.25 |
| 12 | 150 | 150 | 2,500 | F9 | 5 | RS-12150 | 8.75 | RC-12150 | 7.25 |
| 12 | 200 | 140 | 2,500 | F10 | 6 1/2 | RS-12200 | 10.25 | RC-12200 | 8.75 |
| 10 | 55 | 222 | 2,500 | F6 | 2 | RS-1055 | 4.75 | RC-1055 | 3.50 |
| 10 | 85 | 175 | 2,500 | F7 | 2 3/4 | RS-1085 | 5.75 | RC-1085 | 4.25 |
| 8 | 105 | 103 | 2,500 | F8 | 3 3/4 | RS-8105 | 6.25 | RC-8105 | 5.00 |
| 8 | 150 | 100 | 2,500 | F9 | 5 | RS-8150 | 8.50 | RC-8150 | 7.00 |
| 8 | 200 | 85 | 2,500 | F10 | 6 1/2 | RS-8200 | 10.00 | RC-8200 | 8.50 |
| 8 | 300 | 70 | 2,500 | F11 | 9 1/2 | RS-8300 | 15.50 | RC-8300 | 13.50 |

FILAMENT TRANSFORMERS — S-Type Mounting

CHICAGO New Equipment filament transformers provide voltage and current ratings for heating a wide range of popular tubes. Those with secondaries rated for less than 6 amps. have solder-lug terminals as shown in the S-type mounting; those with secondaries rated at

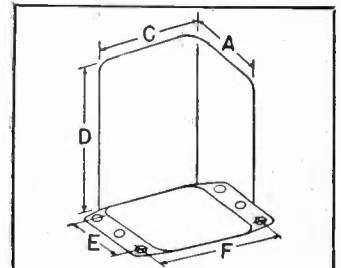
more than 6 amps. have screw-terminal. Filament Transformers Nos. F-210 and F-210H are specially designed for high voltage rectifier filament supply. They have screw-type terminals, insulated on the secondaries with ceramic bushings.

| Secondary Volts | Amps | Primary Volts | Cycles | Insulation Test Volts | Case Size | Wt. Lbs. | Catalog No. | List Price |
|--------------------|------|------------------|--------|--------------------------|--------------|-------------|----------------|---------------|
| 2.5 CT | 6.25 | 115-230 | 50-60 | 3,500 | F7D | 2 | F-25 | \$ 7.50 |
| 2.5 CT | 10.0 | 115-230 | 50-60 | 5,000 | F8D | 3 1/4 | F-210 | 10.75 |
| 2.5 CT | 10.0 | 115-230 | 50-60 | 9,000 | F9D | 4 1/2 | F-210H | 12.50 |
| 5 CT | 4.0 | 115-230 | 50-60 | 2,500 | F7D | 2 3/4 | F-54 | 7.75 |
| 5 CT | 10.0 | 115-230 | 50-60 | 2,500 | F8D | 3 1/4 | F-58 | 10.75 |
| 5 CT | 20.0 | 115-230 | 50-60 | 2,500 | F10D | 6 1/2 | F-516 | 15.50 |
| 6.3 CT | 5.5 | 115-230 | 50-60 | 2,500 | F8D | 3 3/4 | F-65 | 9.00 |
| 6.3 CT | 10.0 | 115-230 | 50-60 | 2,500 | F9D | 5 | F-610 | 12.75 |
| 7.5 CT | 5.0 | 115-230 | 50-60 | 2,500 | F8D | 3 3/4 | F-75 | 8.75 |
| 7.5 CT | 25.0 | 115-230 | 50-60 | 2,500 | F11 | 12 | F-725 | 20.50 |
| 10 CT | 4.0 | 115-230 | 50-60 | 2,500 | F8D | 3 3/4 | F-104 | 9.25 |
| 10 CT | 6.5 | 115-230 | 50-60 | 2,500 | F9D | 5 | F-106 | 12.75 |
| 10 CT | 10.0 | 115-230 | 50-60 | 2,500 | F10D | 6 1/2 | F-1010 | 15.00 |
| 11 CT | 10.0 | 115-230 | 50-60 | 2,500 | F11 | 9 1/2 | F-1110 | 16.00 |



S-TYPE
MOUNTING

C-TYPE
MOUNTING



CASE DIMENSIONS
S-TYPE & C-TYPE MOUNTINGS

| Case Size | Dimensions in Inches | | | |
|--------------|----------------------|-------|-------|-------|
| | A | C | D | F |
| F6 | 2 1/4 | 2 1/4 | 2 1/8 | 1 1/2 |
| F7 | 2 1/2 | 2 3/8 | 3 3/8 | 1 3/4 |
| F8 | 2 7/8 | 2 1/2 | 3 3/8 | 2 |
| F9 | 3 1/4 | 3 | 4 1/4 | 2 1/4 |
| F10 | 3 1/2 | 3 3/8 | 4 1/4 | 2 3/4 |
| F11 | 4 5/8 | 4 1/8 | 5 1/8 | 2 1/2 |
| F12 | 4 3/4 | 4 1/8 | 6 1/8 | 3 1/2 |

For details on mounting constructions, see bottom of next page.

BIAS TRANSFORMERS

Combination plate and filament supply transformers. High voltage secondaries, 180/160/140/120 volts a-c at 150 ma d-c; rectifier filament windings, 5 volts at 3 amps. Available with either 115-volt or 230-volt primaries. In drawn steel cases, case size F9, in either the "S" or "C" type of mounting. Wt., 5 lb.

S-Type Mounting

| Primary Volts | Catalog No. | List Price |
|------------------|----------------|---------------|
| 115 | 1BS-150 | \$13.00 |
| 230 | 2BS-150 | 12.75 |

C-Type Mounting

| | | |
|-----|---------|------|
| 115 | 1BC-150 | 8.25 |
| 230 | 2BC-150 | 8.00 |

CHICAGO

NEW EQUIPMENT

AUDIO TRANSFORMERS



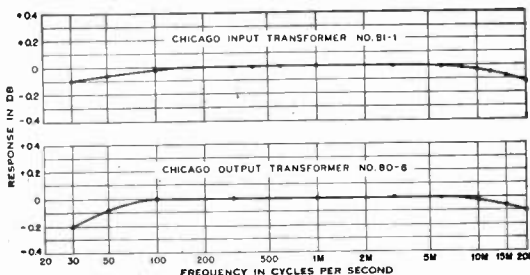
CHICAGO TRANSFORMER DIVISION * ESSEX WIRE CORPORATION



B-TYPE MOUNTING

FULL FREQUENCY RANGE AUDIO TRANSFORMERS

Frequency Response within $\pm 1/2$ db, 30 to 15,000 Cycles



The frequency response curves at left are typical of these CHICAGO transformers. This, plus a very low percentage of distortion over the full range and their high grade construction, recommends them to all users of fine, broadcast quality audio components.

Input units have hum-bucking core construction and inner alloy cases for extra hum shielding.

For Full Frequency Range DRIVER and MODULATION TRANSFORMERS, see page N-20

INPUT TRANSFORMERS — B-Type Mounting

| Application | Impedance Primary—Secondary | Max. Power Level | Hum Shielding | Case Size | Wt. Lbs. | Cat. No. | List Price |
|---|---|------------------|---------------|-----------|----------|----------|------------|
| Line to Single or P-P Grids | *Pri: 600/150 ohms CT *Sec: 50,000 ohms CT | +15 dbm. | -70 dbm. | S6D | 2 | BI-1 | \$22.00 |
| Line to Single or P-P Grids | *Pri: 600/150 ohms CT *Sec: 50,000 ohms CT | +15 dbm. | -90 dbm. | S6D | 2 | BI-2 | 29.00 |
| Line bridging to P-P Grids | *Pri: 8,000/6,000 ohms CT *Sec: 50,000 ohms CT | +15 dbm. | -70 dbm. | S6D | 2 | BI-3 | 21.00 |
| Line to line | Pri: 600/150 ohms CT Sec: 600/150 ohms CT | +15 dbm. | -70 dbm. | S6D | 2 | BI-4 | 21.00 |
| Line to line | *Pri: 600/150 ohms CT *Sec: 600/150 ohms CT | +30 dbm. | -90 dbm. | S9 | 3 | BI-5 | 30.00 |
| Interstage: P-P Plates to Sgl. or P-P Grids | *Pri: 20,000 ohms CT *Sec: 50,000 ohms CT | +15 dbm. | -70 dbm. | S6D | 2 | BI-6 | 22.00 |

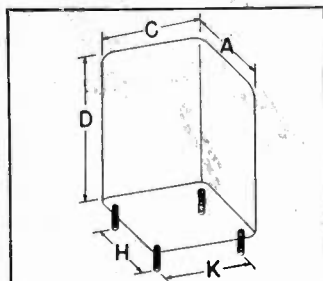
*Split and balanced windings.

OUTPUT TRANSFORMERS — B-Type Mounting

| Application | Impedance Primary—Secondary | Max. Power Level | Case Size | Wt. Lbs. | Cat. No. | List Price |
|--------------------------|---|------------------|-----------|----------|----------|------------|
| Single Plate to Line | †Pri: 15,000 ohms *Sec: 600/150 ohms CT | +15 dbm. | S7 | 2 | BO-1 | \$13.00 |
| P-P Plates to Line | *Pri: 20,000 ohms CT *Sec: 600/150 ohms CT | +30 dbm. | S8 | 2 3/4 | BO-2 | 19.00 |
| P-P Plates to Line | Pri: 5,000 ohms CT *Sec: 600/150 ohms CT | +40 dbm. | S10 | 5 | BO-3 | 17.00 |
| P-P Plates to Line | Pri: 7,500 ohms CT *Sec: 600/150 ohms CT† | +43 dbm. | S10 | 5 | BO-4 | 18.00 |
| P-P Plates to Line | *Pri: 10,000 ohms CT *Sec: 600/150 ohms CT and 16/8/4 ohms | +37 dbm. | S9D | 4 | BO-5 | 24.00 |
| P-P Plates to Voice Coil | *Pri: 7,500 ohms CT Sec: 8/20 ohms‡ | +43 dbm. | S10 | 5 | BO-6 | 23.00 |
| Line to Voice Coil | Pri: 600/150 ohms Sec: 8/20 ohms | +45 dbm. | S10 | 5 | BO-7 | 22.00 |

*Split and balanced windings. †0 to 10 ma. D.C.

‡Has tertiary winding to provide 15% inverse feedback.



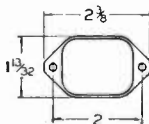
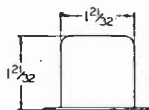
B-TYPE MTG. DIMENSIONS

| Case Size | Dimensions in Inches | | | | |
|-----------|----------------------|-------|-------|-------|-------|
| | A | C | D | H | K |
| S6D | 2 1/4 | 2 1/4 | 2 1/8 | 1 1/8 | 1 3/8 |
| S7 | 2 1/2 | 2 3/8 | 3 1/8 | 1 1/8 | 1 1/8 |
| S8 | 2 7/8 | 2 1/8 | 3 1/2 | 2 | 1 7/8 |
| S9 | 3 1/4 | 3 | 3 7/8 | 2 3/8 | 2 1/8 |
| S9D | 3 1/4 | 3 | 4 1/4 | 2 3/8 | 2 1/8 |
| S10 | 3 1/8 | 3 3/8 | 4 1/8 | 2 5/8 | 2 3/8 |



HIGH Q CHOKES

for
Dynamic Noise
Suppression Circuits
(S-Type Mounting)



Two efficient reactors, inductance values .8 and 2.4 henrys respectively, are designed for noise suppression circuits, but can be used in any tuned circuit requiring the given inductances. Inductance values accurate within $\pm 5\%$ with up to 15 ma. dc. Minimum Q of 20. Mounted in identical drawn steel cases.

| Cat. No. | Inductance | List Price |
|----------|------------|------------|
| NSI-1 | .8 hy. | \$7.50 |
| NSI-2 | 2.4 hy. | 7.50 |

DETAILS OF NEW EQUIPMENT LINE MOUNTINGS

The New Equipment Line offers these exclusive features: (1) Uniformity of mounting — all but the largest units have CHICAGO's famous Sealed in Steel constructions; (2) Choice of two alternate mountings, the S-Type and C-Type, in most categories.

A third construction, the B-Type mounting, is used for the Full Frequency Range audio units, where fine wire windings deserve the highest degree of sealing against moisture.

All three mountings achieve: 1. "Steel wall" protection against corrosive moisture; (2) Efficient shielding; (3) Unsurpassed strength to withstand shock and vibration; (4) Compactness; (5) Clean, streamlined appearance.

C-TYPE MOUNTING — Moisture-resistant compound surrounds coil and core. Ten-inch, RMA-color-coded leads, ends stripped and tinned for easy soldering. Flange-mounted drawn steel cases.

S-TYPE MOUNTING — Precision-fitted steel base-covers and terminal boards, plus compound filling, keep moisture out. Solder-lug terminals are clearly identified, easy to use. Drawn steel cases are flange-mounted.

B-TYPE MOUNTING — Steel bases are bonded into the drawn steel cases by deep-seal soldering to make units completely moisture proof. Stud-mounted cases take minimum chassis space. Convenient, compact, pin-type terminals.

PUBLIC ADDRESS RANGE AUDIO TRANSFORMERS

Frequency Response within ± 1 db, 50 to 10,000 Cycles

Driver and output transformers in this CHICAGO series are designed for three general power levels to fit a wide range of application. Up-to-date secondary impedances match 600 or 150-ohm lines, 16, 8, and 4-ohm speakers.

(16/8/4-ohm taps also suitable for 20/6/3.2-ohm speakers.) Output transformers have tertiary windings for 10% inverse feedback that minimizes distortion and provides extra audio watts without loss of fidelity.

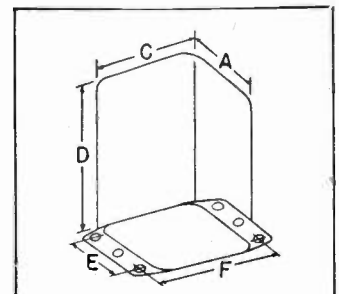
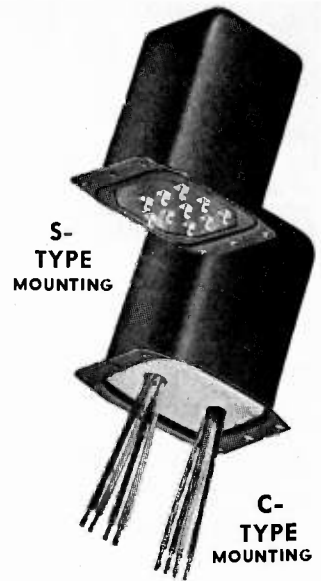
INPUT TRANSFORMERS

| Application | Primary Impedance | Max. D-C Pri. CT | Ratio, Pri. to 1/2 Sec. | Case Size | Wt. Lbs. | S-Type Mounting Cat. No. | List Price | C-Type Mounting Cat. No. | List Price |
|-------------------------|-----------------------------|------------------|-------------------------|-----------|----------|--------------------------|------------|--------------------------|------------|
| P-P Plates to P-P Grids | 20,000 ohms (Pri. CT) | 10 ma. | 3:1 | F7 | 2 | PSD-10 | \$ 7.25 | PCD-10 | \$ 5.00 |
| P-P Plates to P-P Grids | 20,000 ohms (Pri. CT) | 25 ma. | 3:1 | F7D | 2 3/4 | PSD-25 | 7.00 | PCD-25 | 4.75 |
| P-P Plates to P-P Grids | 5,000/10,000 ohms (Pri. CT) | 100 ma. | 5:1 | F9 | 5 | PSD-100 | 12.00 | PCD-100 | 8.50 |

OUTPUT TRANSFORMERS

| Application | Impedances | Typical Output Tubes | Class | Max. Audio Watts | Max. D-C Pri. CT | Case Size Wt. | Cat. No. | List Price |
|----------------------------------|--|-----------------------------------|------------------------|------------------|------------------|-----------------|--|------------------|
| P-P Plates to Line or Voice Coil | Primary: 5,000 ohms, CT Secondary: * 600/150/16/8/4 ohms | 2A3, 6A3, 6B4, 6L6, 6V6, etc. | A, AB | 20 | 120 ma. | F10: 6 1/2 lbs. | S-Type Mounting PSO-80 C-Type Mounting PCO-80 | \$15.00 11.00 |
| P-P Plates to Line or Voice Coil | Primary: 10,000 ohms, CT Secondary: * 600/150/16/8/4 ohms | 6V6, 6F6, 6K6, etc. | A, AB, AB ₁ | 15 | 200 ma. | F9D: 5 lbs. | S-Type Mounting PSO-150 C-Type Mounting PCO-150 | 13.50 9.50 |
| P-P Plates to Line or Voice Coil | Primary: 6,000 ohms, CT Secondary: * 600/150/16/8/4 ohms | Two 6L6's, four 6V6's, or similar | B, AB ₂ | 30 | 240 ma. | F11: 9 1/2 lbs. | S-Type Mounting PSO-200 C-Type Mounting PCO-200 | 16.50 12.50 |

*Has tertiary winding to provide 10% inverse feedback



CASE DIMENSIONS
S-TYPE & C-TYPE MOUNTINGS

| Case Size | Dimensions in Inches | | | | |
|-----------|----------------------|-------|-------|-------|-------|
| | A | C | D | E | F |
| F4D | 1 1/2 | 1 1/2 | 2 1/8 | | 1 7/8 |
| F7 | 2 1/2 | 2 3/8 | 3 1/8 | 1 3/4 | 2 1/8 |
| F7D | 2 1/2 | 2 3/8 | 3 3/8 | 1 3/4 | 2 1/8 |
| F8D | 2 3/4 | 2 1/8 | 3 3/8 | 2 | 3 1/4 |
| F9 | 3 1/4 | 3 | 3 3/8 | 2 1/4 | 3 1/2 |
| F9D | 3 1/4 | 3 | 4 1/4 | 2 1/4 | 3 1/2 |
| F10 | 3 1/2 | 3 3/8 | 4 3/8 | 2 3/4 | 3 7/8 |
| F11 | 4 1/8 | 4 1/8 | 5 3/8 | 2 1/2 | 4 3/4 |

For details on mounting constructions, see bottom of opposite page.

COMMUNICATIONS RANGE AUDIO TRANSFORMERS

Frequency Response within ± 1 db., 200 to 3,500 Cycles

These transformers are specifically designed for use in receiving and transmitting equipment such as amateur, police, railroad, and aircraft types, where clear voice reproduction is desired. All units, excepting one, are offered in both

S- and C-Type mountings. Check the advantages of these Sealed in Steel mountings for protecting the units against deterioration from atmospheric moisture in the field, and for adding to the appearance of any gear.

INPUT TRANSFORMERS

| Application | Impedances: Primary — Secondary | Case Size | Wt. Lbs. | S-Type Mounting Cat. No. | List Price | C-Type Mounting Cat. No. | List Price |
|--|---|-----------|----------|--------------------------|------------|--------------------------|------------|
| Line to Single or Push-Pull Grids | Pri.: 600/150 ohms *Sec.: 100,000 ohms CT | F4D | 3/4 | CIS-1 | \$10.50 | CIC-1 | \$7.50 |
| S. B. or D. B. mike to Sgl. or P-P Grids | Pri.: 125/50 ohms @ 80 ma. Sec.: 125,000 ohms CT | F4D | 3/4 | CIS-2 | 6.00 | CIC-2 | 3.75 |

*Split and balanced windings: may be used singly or push-pull.

OUTPUT TRANSFORMERS

| Application | Impedances: Pri. — Sec. | Typical Output Tubes | Class | Max. Audio Watts | Max. D-C Pri. CT | Case Size | Wt. Lbs. | S-Type Mounting Cat. No. | List Price | C-Type Mounting Cat. No. | List Price |
|-----------------------------|--|----------------------|-------|------------------|------------------|-----------|----------|--------------------------|------------|--------------------------|------------|
| Sgl. Pl. to Line or Speaker | Pri.: 5000 ohms Sec. ohms: 600/150/16/8/4 | 6L6, 6V6, 25A6 | A | 5 | 55 ma. | F7 | 2 3/4 | COS-1 | \$7.50 | COC-1 | \$4.75 |
| Sgl. Pl. to Line or Speaker | Pri.: 8000 ohms Sec. ohms: 600/150/16/8/4 | 6F6, 6V6, 6K6 | A | 5 | 55 ma. | F7 | 2 3/4 | COS-2 | 7.75 | COC-2 | 5.00 |

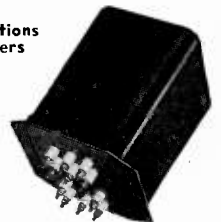
DRIVER TRANSFORMER

| Application | Primary Impedance | Max. D-C Pri. CT | Ratio, Pri. to 1/2 Sec. | Case Size | Wt. Lbs. | S-Type Mounting Cat. No. | List Price | C-Type Mounting Cat. No. | List Price |
|---------------------------------------|----------------------|------------------|-------------------------|-----------|----------|--------------------------|------------|--------------------------|------------|
| P-P Plates (2A3's, etc.) to P-P Grids | 5,000 ohms (Pri. CT) | 100 ma. | 3:1 | F8D | 3 | CDS-1 | \$8.25 | CDC-1 | \$5.75 |

MODULATION TRANSFORMER CMS-1

for Communications Transmitters

Freq. Range, 200 to 3,500 Cycles



CHICAGO's No. CMS-1 Modulation Transformer and matching Driver Transformer No. CDS-1, at left, are ideally suited for use in ham and commercial speech transmitters. No. CMS-1 will deliver 250 watts of Class B audio power from P-P 203A's, 211's, 805's, 75TL's, etc. to a Class C load with response variations not exceeding ± 1 db. over the stated frequency range. Primary impedances, 9000/6700 ohms ct; secondary, 8000/6000/4000 ohms. Case size F13. Wt., 22 lbs.

No. CMS-1.....List Price, \$40.00

CHICAGO

NEW EQUIPMENT

TRANSFORMERS and REACTORS

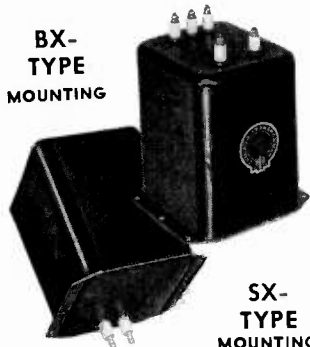
for Broadcast, Amateur, and Industrial Application



CHICAGO TRANSFORMER DIVISION * ESSEX WIRE CORPORATION

DRIVER AND MODULATION TRANSFORMERS

For Full Frequency Range Broadcasting



Ideally suited to the small-to-medium size, high fidelity broadcast station, three matched sets of driver and modulation transformers provide frequency response within ± 1 db. over the full

30 to 15,000-cycle range. A uniformly low percentage of distortion proven in use. Three specially designed modulation reactors complete the sets.

CONSTRUCTIONS

BX-TYPE MOUNTING — Flange mounted case with steel base solder-sealed in. Bushing-insulated screw terminals in the tops of the cases.
SX-TYPE MOUNTING — Flange mounted cases with precision-fitted steel bases. Bushing-insulated screw terminals out the bases of the units.
FS-TYPE MOUNTING — Heavy duty frame-

and-shield construction. Screw terminals on the primaries; bushing-insulated terminals on the secondaries.

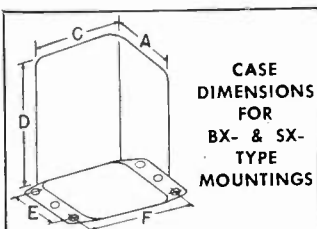
WC-TYPE MOUNTING — Large oil-filled cases, made of heavy, welded steel plate. High voltage type, bushing-insulated terminals.

DRIVER TRANSFORMERS

| In: | Recommended Application: Tubes: | Ratio Pri./1/2 Sec. | Mtg. Type | Case Size | Wt. Lbs. | Cat. No. | List Price |
|----------------------|---|------------------------|--------------|--------------|-------------|-------------|---------------|
| 250-watt transmitter | From two 2A3's, 6B4's, or similar P-P plates to Class B 838's, 805's, 203-A's, etc. | 3.5:1 | B* | S10 | 6 | BD-1 | \$ 30.00 |
| 1-KW transmitter | From four 2A3's, 6B4's, or similar P-P plates to two 833-A's or similar P-P grids | 3:1 | † | F12 | 16 | BD-2 | 62.00 |
| 5-KW transmitter | From four 845's, two 152-TL's or similar P-P plates to 891-R's or similar P-P grids | 3.5:1 | BX | F13 | 22 | BD-3 | 160.00 |

† Similar to BX-Type mounting, but with screw terminals on a terminal board.

* B-Type mounting, but with screw terminals. See page N-18 for dimensions.



CASE DIMENSIONS FOR BX- & SX-TYPE MOUNTINGS

| Case Size | A | C | D | E | F |
|-----------|-------|-------|-------|-------|-------|
| F12 | 5 1/8 | 4 1/8 | 6 1/8 | 3 1/2 | 5 3/8 |
| F13 | 6 1/8 | 5 1/4 | 7 1/8 | 4 1/4 | 6 |
| F14 | 7 1/8 | 6 1/8 | 8 1/8 | 5 | 7 |

MODULATION TRANSFORMERS

| Recommended Application: In: | With: | Impedances (Pri. Plate to Plate) | Modulator Tubes | Mtg. Type | Size | Wt. Lbs. | Cat. No. | List Price |
|---------------------------------|--------------------------|---|-------------------------|--------------|------|-------------|-------------|------------------|
| 250-watt transmitter | Driver Transformer #BD-1 | Pri.: 7500 ohms CT Sec.: 5000 ohms | 203-A, 838 805, etc. | BX | F13 | 52 | BM-1 | \$ 67.00 |
| 1-KW transmitter | Driver Transformer #BD-2 | Pri.: 9000 ohms CT Sec.: 7500 ohms | 833-A, etc. | FS | 84 | 175 | BM-2 | 390.00 (net) |
| 5-KW transmitter | Driver Transformer #BD-3 | Pri.: 13500 ohms CT Sec.: 10250 ohms | 891-R, etc. | WC | | 1100 | BM-3 | 1068.00 (net) |

MODULATION REACTORS

| In: | Recommended Application: With: | Inductance | D-C Ma. | Mtg. Type | Size | Wt. Lbs. | Cat. No. | List Price |
|----------------------|-----------------------------------|------------|------------|--------------|------|-------------|-------------|---------------|
| 250-watt Transmitter | Mod. Transformer #BM-1 | 65 hy. | 250 | BX | F14 | 41 | BR-1 | \$ 97.00 |
| 1-KW Transmitter | Mod. Transformer #BM-2 | 100 hy. | 500 | FS | 81 | 165 | BR-2 | 185.00 |
| 5-KW Transmitter | Mod. Transformer #BM-3 | 120 hy. | 900 | WC | | 1100 | BR-3 | 891.(net) |

PLATE TRANSFORMERS AND REACTORS

Plate voltages and currents available here fit a wide range of usage in both commercial and ham transmitters, and in many types of indus-

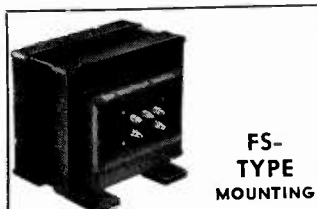
trial electronic equipment, including induction heaters. High quality construction and conservative ratings assure top performance.

PLATE TRANSFORMERS — FS-Type Mounting

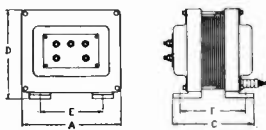
| Primary: Volts | Max. VA. | Secondary: A-C Load Volts | D-C Volts after filter | D-C Ma. | Mtg. Size | Wt. Lbs. | Catalog No. | List Price |
|-------------------|----------|------------------------------|---------------------------|------------|--------------|-------------|----------------|---------------|
| 115-230 | 310 | 1150-0-1150 870-0-870 | 1000 750 | 250 | 60 | 37 | P-107 | \$ 50.00 |
| 115-230 | 550 | 1710-0-1710 1430-0-1430 | 1500 1250 | 300 | 63 | 43 | P-1512 | 65.00 |
| 115-230 | 915 | 2820-0-2820 2260-0-2260 | 2500 2000 | 300 | 71 | 55 | P-2520 | 100.00 |
| 115-230 | 1850 | 3450-0-3450 2850-0-2850 | 3000 2500 | 500 | 81 | 125 | P-3025 | 175.00 |

FILTER REACTORS

| Inductance in henrys | Max. D-C Ma. | D-C Resis- tance, Ohms | Insulation Test Volts | Mtg. Type | Mtg. Size | Wt. Lbs. | Catalog No. | List Price |
|-------------------------|-----------------|---------------------------|--------------------------|--------------|--------------|-------------|----------------|---------------|
| 10 | 500 | 40 | 9,000 | FS | 62 | 35 | R-105 | \$35.00 |
| 10 | 300 | 40 | 7,500 | SX | F13 | 22 | R-103 | 20.00 |
| 6 | 500 | 35 | 9,000 | FS | 60 | 35 | R-65 | 32.50 |
| 6 | 300 | 35 | 7,500 | SX | F12 | 16 | R-63 | 17.00 |



FS-TYPE MOUNTING



| Size | A | D | E | F | C |
|------|--------|--------|-------|--------|--------|
| 60 | 7 1/2 | 7 | 4 3/4 | 5 1/2 | 6 5/8 |
| 62 | 7 1/2 | 7 | 4 3/4 | 6 7/8 | 7 1/4 |
| 63 | 7 1/2 | 7 | 4 3/4 | 6 1/8 | 7 1/2 |
| 71 | 8 1/8 | 8 1/2 | 5 1/2 | 6 1/2 | 8 1/8 |
| 81 | 11 1/2 | 10 1/2 | 7 1/2 | 8 1/2 | 10 1/2 |
| 84 | 11 1/2 | 10 1/2 | 7 1/2 | 11 1/8 | 13 1/8 |



WC-TYPE MOUNTING

Overall Case Dimensions:
H—31 1/2" W—26 1/2" D—23 1/2"

CHICAGO

REPLACEMENT TYPE

TRANSFORMERS and REACTORS

Premium Quality—Yet They Cost No More

CHICAGO TRANSFORMER DIVISION * ESSEX WIRE CORPORATION



POWER TRANSFORMERS

6.3-VOLT FILAMENTS — VERTICAL SHIELD MOUNTING (V)

| Catalog No. | High Voltage Secondary | | Rectifier Filament | | Other Filaments | | Dimensions | | | Wt. Lbs. | List Price |
|-------------|------------------------|---------|--------------------|-------|-----------------|-------|------------|-------|-------|----------|------------|
| | A-C Volts | D-C Ma. | Volts | Amps. | Volts | Amps. | H | W | D | | |
| PV-40 | 225-0-225 | 40 | 5 | 2 | 6.3 C-T | 1 | 3 1/4 | 2 1/4 | 2 1/4 | 2 1/4 | \$ 6.60 |
| PV-50 | 325-0-325 | 50 | 5 | 3 | 6.3 C-T | 2 | 3 3/4 | 2 7/8 | 3 1/4 | 3 3/4 | 7.40 |
| PV-60 | 250-0-250 | 60 | 5 | 2 | 6.3 C-T | 2 | 3 1/8 | 2 1/4 | 3 | 3 | 7.90 |
| PV-70 | 350-0-350 | 70 | 5 | 3 | 6.3 C-T | 3 | 4 | 3 1/4 | 3 3/8 | 5 | 8.50 |
| PV-70A | 300-0-300 | 70 | 5 | 3 | 6.3 C-T | 3 | 3 3/4 | 2 7/8 | 3 3/8 | 4 | 8.40 |
| PV-90 | 350-0-350 | 90 | 5 | 3 | 6.3 C-T | 3.5 | 4 | 3 1/4 | 3 1/2 | 5 1/4 | 9.50 |
| PV-100 | 350-0-350 | 100 | 5 | 3 | 6.3 C-T | 5 | 4 7/8 | 3 3/4 | 3 1/2 | 7 1/2 | 9.80 |
| PV-120 | 300-0-300 | 120 | 5 | 3 | 6.3 C-T | 5 | 4 | 3 1/4 | 3 3/4 | 5 3/4 | 10.00 |
| PV-145 | 372-0-372 | 145 | 5 | 3 | 6.3 C-T | 5 | 4 7/8 | 3 3/4 | 3 3/4 | 9 | 11.80 |
| PV-200 | 400-0-400 | 200 | 5 | 4 | 6.3 C-T | 5.5 | 4 7/8 | 3 3/4 | 4 | 9 | 13.80 |

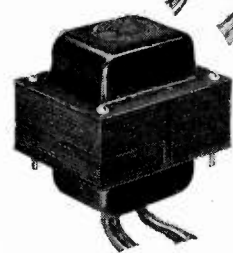
V



6.3-VOLT FILAMENTS — HORIZONTAL SHIELD MOUNTING (H)

| Catalog No. | Secondary Volts | D-C Ma. | Filaments | Other Filaments | Dimensions | Wt. Lbs. | List Price | | | |
|-------------|-----------------|---------|-----------|-----------------|-------------|----------|------------|-------|-------|---------|
| | | | | | | | | H | W | D |
| PH-40 | 250-0-250 | 40 | 5 | 2 | 6.3 C-T 1.6 | 3 | 3 | 2 1/2 | 2 1/2 | \$ 6.80 |
| PH-50 | 250-0-250 | 50 | 5 | 2 | 6.3 C-T 2 | 3 1/2 | 3 | 2 1/2 | 3 | 6.90 |
| PH-50A | 280-0-280 | 50 | 5 | 3 | 6.3 1.5 | 3 | 3 | 2 1/2 | 3 1/2 | 7.10 |
| PH-70 | 300-0-300 | 70 | 5 | 3 | 6.3 C-T 3 | 3 1/2 | 3 3/8 | 2 1/8 | 4 | 7.20 |
| PH-70B | 350-0-350 | 70 | 5 | 3 | 6.3 C-T 2.5 | 3 5/8 | 3 | 2 1/4 | 4 1/2 | 7.30 |
| PH-90 | 350-0-350 | 90 | 5 | 3 | 6.3 C-T 3.5 | 3 | 3 3/8 | 2 1/8 | 5 1/2 | 7.70 |
| PH-120 | 300-0-300 | 120 | 5 | 3 | 6.3 C-T 5 | 3 3/4 | 4 1/4 | 3 1/2 | 5 3/4 | 8.50 |
| PH-200 | 350-0-350 | 200 | 5 | 3 | 6.3 C-T 6 | 4 | 4 1/2 | 3 3/4 | 8 | 12.25 |

H



6.3 AND 2.5-VOLT FILAMENTS — HORIZONTAL SHIELD MOUNTING (H)

| Catalog No. | Secondary Volts | D-C Ma. | Filaments | Other Filaments | Dimensions | Wt. Lbs. | List Price | | | |
|-------------|-----------------|---------|-----------|-----------------|----------------------------|----------|------------|-------|-------|---------|
| PH-60 | 300-0-300 | 60 | 5 | 3 | 6.3 C-T 2.5 2.5 C-T 7.5 | 3 3/4 | 3 3/8 | 2 1/8 | 4 1/2 | \$ 8.25 |

2.5-VOLT FILAMENTS — HORIZONTAL SHIELD MOUNTING (H)

| Catalog No. | Secondary Volts | D-C Ma. | Filaments | Other Filaments | Dimensions | Wt. Lbs. | List Price | | | |
|-------------|-----------------|---------|-----------|-----------------|-----------------------------|----------|------------|-------|-------|---------|
| PH-70A | 325-0-325 | 70 | 5 | 3 | 2.5 C-T 9 | 3 1/2 | 3 3/4 | 3 1/4 | 4 1/2 | \$ 8.25 |
| PH-120A | 325-0-325 | 120 | 5 | 3 | 2.5 C-T 12.5 2.5 C-T 3.5 | 3 3/4 | 3 3/4 | 3 1/8 | 6 | 10.50 |

All transformers above are designed for 117 volts, 50/60 cycles.

FILAMENT TRANSFORMER

| Catalog No. | Secondary Volts | Amps. | Primary Volts | Cycles | Insulation Test Volts | Mtg. Type | Dimensions | Wt. Lbs. | Price List | |
|-------------|-----------------|-------|---------------|--------|-----------------------|-----------|------------|----------|------------|--------|
| F-633 | 6.3 C-T | 3 | 117 | 60 | 2000 | U | 2 3/4 | 2 7/8 | 1 3/4 | \$3.60 |

FILTER REACTORS

| Catalog No. | Inductance in henries | Maximum D-C Current | D-C Resistance in ohms | Insulation Test Volts | Mtg. Type | Dimensions | Wt. Lbs. | List Price | | |
|-------------|-----------------------|---------------------|------------------------|-----------------------|-----------|------------|----------|------------|-------|--------|
| R-650 | 6 | 50 | 300 | 1500 | L | 1 5/8 | 2 5/8 | 1 3/8 | 3/4 | \$1.65 |
| R-1230 | 12 | 30 | 400 | 2000 | L | 1 3/8 | 2 3/8 | 1 3/8 | 3/2 | 1.65 |
| R-1240 | 12 | 40 | 400 | 2000 | L | 1 5/8 | 2 3/8 | 1 3/8 | 3/4 | 1.60 |
| R-8120 | 8 | 120 | 350 | 1500 | L | 2 1/2 | 4 | 2 | 2 1/2 | 3.90 |
| R-23110 | 23 | 110 | 250 | 2000 | V | 3 1/4 | 2 5/8 | 2 5/8 | 2 1/2 | 3.80 |

DRIVER TRANSFORMERS

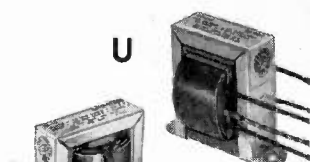
| Cat. No. | Typical Applications: From Driver Tubes | To Output Tubes | Class | Ratio Primary: 1/2 Sec. | Max. Pri. D-C Ma. | Mtg. Type | Dimensions | Wt. Lbs. | List Price | | |
|----------|---|-----------------|-------|-------------------------|-------------------|-----------|------------|----------|------------|-------|--------|
| D-15 | Single 30 | P-P 19 or 30's | B | 2.5:1 | 15 | L | 1 5/8 | 2 7/8 | 1 1/2 | 3/4 | \$2.60 |
| D-30 | 6C5, 6R7, or Triode 6F6 | P-P 6L6's | AB | 3:1 | 30 | LS | 2 | 3 1/4 | 1 1/8 | 1 | 3.75 |
| D-35 | Triode Plate | P-P Grids | | 1:1, 1.5:1 or 2:1 | 20 | L | 3 1/8 | 2 5/8 | 2 1/2 | 1 | 4.00 |
| D-40 | 6C5, 6R7, or Triode 6F6 | P-P 6L6's | AB | 3:1 | 40 | V | 3 3/4 | 2 5/8 | 2 1/2 | 2 1/2 | 5.50 |

INTERSTAGE TRANSFORMERS

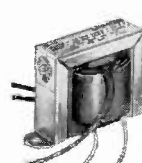
| Cat. No. | Application | Class | Ohms Impedance Pri. | Sec. | Max. Primary D-C Ma. | Ratio Sec.: Pri. | Mtg. Type | Dimensions | Wt. Lbs. | List Price | | |
|----------|----------------------------|-------|---------------------|----------|----------------------|------------------|-----------|------------|----------|------------|--------|------|
| IN-10 | S. Pl. to P-P Gds. | A | 10000 | 160,000 | 10 | 4:1 | L | 1 7/8 | 3 1/4 | 1 3/4 | \$3.20 | |
| IN-11 | S. Pl. to P-P Gds. | A | 10000 | 122,500 | 10 | 3.5:1 | L | 1 5/8 | 2 7/8 | 1 1/4 | 2.60 | |
| IN-13 | S. Pl. to P-P Gds. | A | 10000 | 90,000 | 10 | 3:1 | L | 1 7/8 | 3 1/4 | 2 1/8 | 3.20 | |
| IN-14 | S. Pl. to P-P Gds. | A | 10000 | 90,000 | 10 | 3:1 | L | 1 3/8 | 2 7/8 | 1 1/2 | 2.90 | |
| IN-15 | P-P Pls. - P-P Gds. | A | 10000 | * 90,000 | 10 | 3:1 | L | 1 7/8 | 3 1/4 | 2 3/8 | 4.05 | |
| IN-16 | Sgl. or P-P Input & Output | A | | | 10 | 1:1, 3:1, or 6:1 | L | 2 | 3 3/8 | 2 | 1 1/2 | 4.25 |

*Universal type: center-tapped primary, split secondary.

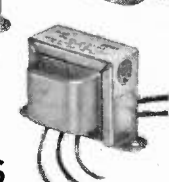
U



L



LS



ISOLATION TRANSFORMERS



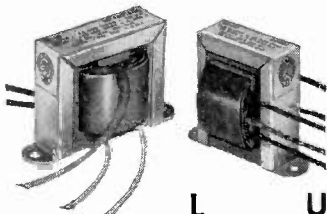
CHICAGO Isolation Transformers are designed for a dual purpose: (1) To supply 115 volts isolated from a line of above/below normal, or normal, voltage — primary switch sets for 125/115/105 volts, 50/60 cycles; or (2) For use in servicing to eliminate shock hazard, by isolating chassis ground from line ground (particularly important on "hot" AC-DC television sets.) Also provide 125 and 105 volts on the secondary for locating doubtful tubes, etc.

| Cat. No. | Capacity | List Price |
|----------|----------|------------|
| IS-50 | 50 VA | \$ 8.00 |
| IS-150 | 150 VA | 21.00 |
| IS-250 | 250 VA | 35.00 |

CHICAGO

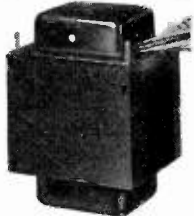
REPLACEMENT TYPE TRANSFORMERS

Premium Quality—
Yet They Cost No More

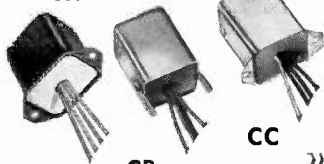


SPEAKER MATCHING TRANSFORMER

No. SM-1. For matching one, two, three, or four 6-ohm speakers from a 500-ohm line. Primary tapped for 1000, 1500, or 2000-ohms. 500, Pri. d-c, 80 ma. Delivers 12 audio watts to each speaker. U-type mtg. H—2 3/8, D—2 1/8, W—1 3/4. Wt., 1 lb. List Price.....\$3.75



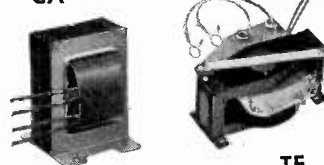
TH



CA

CB

CC



FV

TF



FH

VERTICAL BLOCKING OSCILLATOR TRANSFORMERS

No. TBO-1. Creates 60-cycle vertical sweep voltages. Pri. Induc: 1.15 hv. @ 3 v., 1000 cycles. Ratio (Pri:Sec) 1:4.2. Type CA mounting. Wt., 1 lb.
No. TBO-2. Same as TBO-1, but in Type CB mounting. Wt. 1/2 lb.
No. TBO-3. Same function as TBO-1. Pri. Induc: 3 hv. @ 3 v., 60 cycles. Type CC mtg. Wt., 1 lb.

HORIZONTAL SCANNING OUTPUT TRANSFORMER

No. TFB-1. Couples horiz. output tube to horiz. deflection yoke; supplies high pulse volts to picture tube; has rectifier filament winding. Type TF mtg. Wt., 1 lb.

OUTPUT TRANSFORMERS

SINGLE PLATE TO VOICE COIL

| Catalog No. | Application Typical Output Tubes | Ohms Impedance | | Max. Primary D-C Ma. | Max. Audio Watts | Mtg. Type | Dimensions | | | Wt. Lbs. | List Price |
|-------------|-------------------------------------|----------------|--------|----------------------|------------------|-----------|------------|-------|-------|----------|------------|
| | | Pri. | Sec. | | | | H | W | D | | |
| RO-2 | 25L6, 35A5, 2A3, 6B4 | 2000 | 3 to 6 | 50 | 4 | L | 1 3/8 | 2 3/8 | 1 1/4 | 1 1/2 | \$1.75 |
| RO-3 | 25L6 (10-ohm tap on primary) | 2000 | 3 to 6 | 50 | 4 | L | 1 3/8 | 2 3/8 | 1 1/4 | 1 1/2 | 2.10 |
| RO-6 | 12A5, 25A6, 45, 71A | 4000 | 4-8-15 | 40 | 10 | L | 2 | 3 1/4 | 1 3/4 | 1 | 2.60 |
| RO-8 | 2A5, 25A6, 43 | 4500 | 3 to 6 | 35 | 5 | L | 1 3/8 | 2 3/8 | 1 1/4 | 1 1/2 | 1.85 |
| RO-9 | 6V6, 25A7G, 30, 31, 50 | 5000 | 4-8-15 | 50 | 8 | L | 2 | 3 1/4 | 1 3/4 | 1 | 2.60 |
| RO-11 | 184 | 6000 | 3 to 6 | 5 | 2 | L | 1 1/2 | 2 1/4 | 1 1/4 | 3/8 | 1.60 |
| RO-13 | 7B5, 18, 31, 33, 42, 46, 47 | 7000 | 3 to 6 | 35 | 5 | L | 1 3/8 | 2 3/8 | 1 1/4 | 1 1/2 | 1.75 |
| RO-16 | 1C5G, 1G5G, 1J6G, 6A4, 6A6 | 10000 | 3 to 6 | 30 | 5 | L | 1 3/8 | 2 3/8 | 1 1/4 | 1 1/2 | 1.80 |
| RO-18 | 1A5G, 1E7G, 1N6G, 6V7G | 25000 | 3 to 6 | 10 | 5 | L | 1 3/8 | 2 3/8 | 1 3/8 | 5/8 | 1.70 |

PUSH-PULL PLATES TO VOICE COIL

| Catalog No. | Primary | Secondary | Range of Ohms Impedance | Primary D-C Ma. | Max. Audio Watts | Mtg. Type | Dimensions H W D | Wt. Lbs. | List Price |
|-------------|------------------------------|-----------|-------------------------|-----------------|------------------|-----------|-------------------|----------|------------|
| RO-110 | P-P 2A5, 6AC5G, 6A6, 6N7, 45 | 10000 | 4-8-15 | 80 | 12 | U | 2 3/8 2 7/8 1 3/4 | 1 | \$3.00 |
| RO-111 | P-P 6B5, 6K6, 6N6G, 7B5, 31 | 14000 | 4-8-15 | 80 | 15 | U | 2 3/8 2 7/8 1 3/4 | 1 | 3.20 |
| RO-113 | P-P 1A5G, 1E7G, 1N6G, 6V7G | 30000 | 3 to 6 | 20 | 7 | L | 1 3/8 2 3/8 1 1/2 | 5/8 | 2.90 |

UNIVERSAL TYPE — SINGLE PLATE TO VOICE COIL

| Catalog No. | Primary | Secondary | Range of Ohms Impedance | Primary D-C Ma. | Max. Audio Watts | Mtg. Type | Dimensions H W D | Wt. Lbs. | List Price |
|-------------|----------------------|-----------|-------------------------|-----------------|------------------|-----------|-------------------|----------|------------|
| RO-201 | 4000, 7000, or 10000 | 3 to 6 | | 40 | 8 | L | 1 5/8 2 7/8 1 1/2 | 5/8 | \$2.60 |

UNIVERSAL TYPE — SINGLE OR PUSH-PULL PLATES TO VOICE COIL

| Catalog No. | Primary | Secondary | Range of Ohms Impedance | Primary D-C Ma. | Max. Audio Watts | Mtg. Type | Dimensions H W D | Wt. Lbs. | List Price |
|-------------|---------------|----------------------|-------------------------|-----------------|------------------|-----------|---------------------|----------|------------|
| RO-301 | 2500 to 14000 | 2, 4, 6, 8, 15, etc. | | 30 | 4 | L | 1 3/8 2 3/8 1 1/4 | 1/2 | \$2.65 |
| RO-302 | 2500 to 15000 | 2, 4, 6, 8, 15 | | 50 | 4 | L | 1 3/8 2 3/8 1 3/8 | 5/8 | 2.65 |
| RO-303 | 2500 to 14000 | 2, 4, 6, 8, 15, etc. | | 40 | 8 | L | 1 3/8 2 7/8 1 1/2 | 5/8 | 2.75 |
| RO-304 | 2500 to 13000 | 2, 4, 6, 8, 15 | | 70 | 8 | U | 2 2 1/2 1 7/8 | 1 1/8 | 3.00 |
| RO-305 | 2500 to 14000 | 2, 4, 6, 8, 15, etc. | | 60 | 12 | L | 2 3 3/4 1 3/4 | 1 | 4.10 |
| RO-307 | 2500 to 14000 | 2, 4, 6, 8, 15, etc. | | 50 | 10 | U | 2 2 3/8 2 7/8 1 1/2 | 1 | 3.20 |

UNIVERSAL TYPE — PUSH-PULL PLATES (ONLY) TO VOICE COIL

| | | | | | | | | | |
|--------|---------------|----------------|--|----|----|---|-------------------|-------|--------|
| RO-401 | 2500 to 13000 | 2, 4, 6, 8, 15 | | 70 | 15 | U | 2 3/8 2 3/8 1 1/2 | 1 1/2 | \$4.20 |
|--------|---------------|----------------|--|----|----|---|-------------------|-------|--------|

CHICAGO

EXACT REPLACEMENT TELEVISION TRANSFORMERS

POWER TRANSFORMERS

No. TP-365. Supplies 405 volts d-c @ 295 ma. into an 80 mfd. cond. input filter with two 5U4G's. Plate supply: 362-0-362 v. a-c, 295 ma. d-c. Filaments: 5 v., 3 amp (Rec.); 5 v., 2 amp; 12.6 v., 5 amp, CT. Type TH mtg. 17 lbs.
No. TP-383. Supplies 390 volts d-c @ 230 ma. into an 80 mfd. cond. input filter with a 5U4G. Plate supply: 383-0-383 v. a-c, 230 ma. d-c. Filaments: 5 v., 3 amp (Rec.); 5 v., 2 amp; 6.3 v., 9 amp. Type TH mtg. Wt., 13 1/2 lbs.
No. TP-393. Supplies 393 volts d-c @ 270 ma. into a 90 mfd. cond. input filter with two 5U4G's. Plate supply: 366-0-366 v. a-c, 270 ma. d-c. Filaments: 5 v., 3 amp (Rec.); 6.7 v., 4.5 amp. Type TH mtg. Wt., 10 1/2 lbs.
No. TP-400. Supplies 400 volts d-c @ 205 ma. into a 90 mfd. cond. input filter with a 5U4G. Plate supply: 374-0-374 v. a-c, 205 ma. d-c. Filaments: 5 v., 3 amp (Rec.); 5 v., 2 amp; 6.3 v., 5.6 amp. Type TH mtg. Wt., 9 lbs.
No. TP-210. For use with TP-400. Supplies 210 volts d-c @ 90 ma. into a 40 mfd. cond. input filter with a 5Y3. Plate supply: 233-0-233 v., a-c, 90 ma. d-c. Filaments: 5 v., 2 amp (Rec.); 6.3 v., 5.3 amp. Type TH mtg. Wt., 4 1/2 lbs.
No. TP-410. Supplies 390 volts d-c @ 240 ma. into a 40 mfd. cond. input filter with a 5U4G. Plate supply: 385-0-385 v. a-c, 240 ma. d-c. Filaments: 5 v., 3 amp (Rec.); 5 v., 2 amp; 6.3 v., 8.6 amp. Type TH mtg. Wt., 12 lbs.
No. TP-450. Info 40 mfd. cond. input filters, delivers 395 volts d-c @ 195 ma. with a 5U4G, 212 volts d-c @ 105 ma. with a 5Y3GT. Plate supply: 364-0-364 v. a-c, 195 ma; 229-0-229 v. a-c, 105 ma. d-c. Rec. Fil: 5 v., 3 amp; 5 v., 2 amp. Other Fil: 5 v., 2 amp; 6.3 v., 8.25 amp; 6.3 v., 0.6 amp. Type TH mtg. 12 lbs.

VERTICAL SCANNING OUTPUT TRANSFORMERS

No. TSO-1. Couples vert. output tube to deflection yoke. Pri. Imped: 19,000 ohms @ 30 v., 60 cycles, with 13 ma. d-c. Ratio (Pri:Sec) is 10:1. Mtg. Type FV, Wt., 2 1/2 lbs.
No. TSO-2. Similar to TSO-1. Ratio (Pri:Sec) 8:1. Mtg. Type FH, Wt., 2 1/2 lbs.
No. TSO-3. Very similar to TSO-1. Mtg. FV. No. TSO-4. Similar to TSO-1. Pri. Imped: 18,000 ohms @ 30 v., 60 cycles, with 10 ma. d-c. Mtg. Type FV, Ft., 2 lbs.

Replacement Guide—List Prices

| Make of Set | Set Manufacturer's Part No. | CHICAGO Catalog No. | List Price |
|-------------|-----------------------------|---------------------|------------|
| Admiral | 80B11 | TP-400 | \$15.00 |
| Admiral | 80B12 | TP-210 | 8.75 |
| Magnavox | 300045 series | TP-410 | 13.75 |
| Motorola | 25C-484095 series | TP-450 | 17.50 |
| RCA | 940157 series (TYPE 201T6) | TP-365 | 26.50 |
| RCA | 970918 series | TP-383 | 16.60 |
| RCA | 970924 series | TP-393 | 16.75 |
| Teleking | B101 | TP-400 | 15.00 |
| Teleking | B103 | TP-210 | 8.75 |

VERTICAL BLOCKING OSCILLATOR TRANSFORMERS

| | | | |
|----------|----------------------------|-------|------|
| Magnavox | 320025 series | TBO-1 | 3.10 |
| | 320030 series | TBO-2 | 2.90 |
| Motorola | 25B-90010 series | TBO-3 | 3.25 |
| RCA | 940160 series (TYPE 208T2) | TBO-1 | 3.10 |
| RCA | 941129 series (TYPE 208T9) | TBO-2 | 2.90 |
| Scott | 91L3317 | TBO-1 | 3.10 |
| Sentinel | 22E31 | TBO-1 | 3.10 |

VERTICAL SCANNING OUTPUT TRANSFORMERS

| | | | |
|----------|------------------------------------|-------|------|
| Admiral | 79B6 | TSO-3 | 5.90 |
| Magnavox | 320024 series | TSO-1 | 5.90 |
| Motorola | 25C-90009 series 25K-489134 series | TSO-2 | 5.70 |
| RCA | 940187 series (TYPE 204T2) | TSO-1 | 5.90 |
| RCA | 941177 series (TYPE 204T9) | TSO-4 | 4.50 |
| Scott | 91L3318 | TSO-1 | 5.90 |
| Sentinel | 22E33 | TSO-1 | 5.90 |

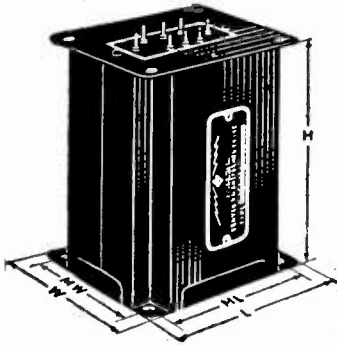
HORIZONTAL SCANNING OUTPUT TRANSFORMERS

| | | | |
|---------|----------------------------|-------|-------|
| Admiral | 79B7 | TFB-1 | 11.25 |
| RCA | 970154 series (TYPE 211T1) | TFB-1 | 11.25 |



KENYON "T" LINE TRANSFORMERS

DIMENSIONS OF "T" LINE TRANSFORMERS



| MOUNTING DIMENSIONS | | | OVERALL DIMENSIONS | | |
|---------------------|-------|-------|--------------------|-----------|------------|
| Case No. | ML | MW | Length (L) | Width (W) | Height (H) |
| 1A | 2 1/8 | 1 1/8 | 2 1/8 | 2 | 2 7/8 |
| 2A | 2 1/8 | 1 1/8 | 2 3/8 | 2 3/8 | 3 1/8 |
| 3A | 2 1/8 | 1 1/8 | 3 1/8 | 2 1/8 | 3 1/8 |
| 4A | 3 1/8 | 2 1/8 | 4 1/2 | 3 | 3 7/8 |
| 5A | 4 1/8 | 3 1/8 | 5 | 3 7/8 | 5 |
| 5 1/2 A | 4 1/8 | 3 1/8 | 5 | 4 1/2 | 5 |
| 6A | 4 1/8 | 3 1/8 | 5 | 5 1/8 | 5 |
| 7A | 5 1/8 | 4 1/8 | 6 1/8 | 5 1/8 | 6 3/8 |
| 8A | 5 3/8 | 4 1/8 | 6 1/8 | 5 1/8 | 7 1/8 |
| 9A | 6 1/8 | 5 1/8 | 7 1/8 | 6 5/8 | 7 1/8 |
| 10A | 8 5/8 | 7 1/8 | 9 1/2 | 8 1/4 | 10 5/8 |

LOW IMPEDANCE SOURCE TO GRID TRANSFORMERS

| Type No. | From | Primary Ohms | Secondary Ohms | Case No. | Weight | List Price |
|------------------------|-------------------|------------------------|--------------------|----------|-------------|------------|
| T-1 (Hum bucking type) | S.B. or D.B. Mic. | 400-300-200-100-50 | 80,000 Single Grid | 1A | 1 lb. 1 oz. | \$9.20 |
| T-2 (Hum bucking type) | Any line | 500-333-250-200-125-50 | 80,000 Single Grid | 1A | 1 lb. 1 oz. | 9.20 |
| T-3 (Hum bucking type) | Any line | 500-333-250-200-125-50 | 80,000 P.P. Grids | 1A | 1 lb. 1 oz. | 9.50 |
| T-6 | Any line | 500-333-250-200-125-50 | 20,000 Single Grid | 1A | 1 lb. | 12.50 |

LINE-TRANSFORMERS—LINE TO LINE AND LINE TO VOICE COIL

| Type No. | Primary Ohms | f Secondary Ohms | Maximum Level | Case No. | Weight | List Price |
|-------------------------|------------------------|------------------------|---------------|----------|----------------|------------|
| T-25 | 500-200-50 | 500-200-50 | + 24 D.B. | 2A | 1 lb. 14 ozs. | \$8.60 |
| T-26 (Hum bucking type) | 500-333-250-200-125-50 | 500-333-250-200-125-50 | + 24 D.B. | 1A | 1 lb. 1 oz. | 8.40 |
| T-28 | 500-200 | 15-8-4 | 30 watts | 4A | 5 lbs. 10 ozs. | 13.95 |

INTERSTAGE AUDIO TRANSFORMERS

| Type No. | From | To | Ratio | Case No. | Weight | List Price |
|-------------------------|-------------------------|-------------|-------|----------|---------------|------------|
| T-51 | Single 10,000 ohm plate | Single Grid | 1:4 | 1A | 1 lb. 4 ozs. | \$7.20 |
| T-52 | Single 10,000 ohm plate | P.P. Grids | 1:4 | 1A | 1 lb. 4 ozs. | 7.50 |
| T-54 | P.P. 10,000 ohm plates | P.P. Grids | 1:1.8 | 2A | 1 lb. 14 ozs. | 9.10 |
| T-55 | Single 10,000 ohm plate | Single Grid | 1:3 | 2A | 1 lb. 14 ozs. | 8.30 |
| T-56 | Single 10,000 ohm plate | P.P. Grids | 1:2 | 2A | 1 lb. 14 ozs. | 8.35 |
| T-57 (Hum bucking type) | Single 10,000 ohm plate | Single Grid | 1:2 | 2A | 1 lb. 7 ozs. | 8.95 |
| T-58 (Hum bucking type) | Single 10,000 ohm plate | P.P. Grids | 1:2 | 2A | 1 lb. 7 ozs. | 9.10 |

DRIVER TRANSFORMERS

| Type No. | Primary to match | Class AB or Class B Tubes | Ratio (pri. to 1/2 Sec.) | Case No. | Weight | List Price |
|----------|------------------------------|---------------------------|--------------------------|----------|----------------|------------|
| T-251 | Single 53, 6A6, 6N7, 56, 6C5 | 53, 6A6, 6N7 | 2.3:1 | 2A | 1 lb. 14 ozs. | \$7.65 |
| T-252 | Single 30, 49, 89 | 19, 30's, 49's | 1.7:1 | 1A | 13 ozs. | 6.60 |
| T-253 | Single 46, 59 | 46's, 59's, 6F6's | 2.3:1 | 2A | 1 lb. 14 ozs. | 7.35 |
| T-255 | P.P. 56, 6C5, 53, 6N7 | 6L6's | 2.9:1 | 2A | 1 lb. 14 ozs. | 8.25 |
| T-267 | 4-2A3's | 354E's, 354F's | 2.1:1 | 4A | 5 lbs. 10 ozs. | 13.95 |
| T-271 | P.P. 45's, 2A3's, 6F6's | 6L6's, 809's, TZ40's | 3.7:1 | 3A | 2 lbs. 13 ozs. | 10.70 |

KEN-O-TAP UNIVERSAL DRIVER TRANSFORMERS

500 Ohm Line to any Class B Grids

Primary to Secondary Ratio Variable from 1:13.3 to 1: .7

| Type | Power Rating | Case No. | Weight | List Price |
|-------|--------------|----------|---------------|------------|
| T-261 | 7 Watts | 3A | 2 lbs. 12 oz. | \$11.25 |
| T-262 | 18 Watts | 4A | 5 lbs. 4 oz. | 14.80 |

Any Line or Single or Push Pull Plates to Class B Grids

Primary to 1/2 Secondary Ratio Variable from 7.0:1 to 1:9.0

| Type | Audio Rating | Case Size | Max. Pri. D.C. | Max. Sec. D.C. | Weight | List Price |
|-------|--------------|-----------|----------------|----------------|---------------|------------|
| T-264 | 7 Watts | 3A | 100 MA | 100 MA | 2 lbs. 12 oz. | \$11.40 |
| T-263 | 18 Watts | 4A | 200 MA | 200 MA | 5 lbs. 12 oz. | 17.10 |

PREAMPLIFIER OUTPUT TRANSFORMERS

| Type No. | From | Secondary Ohms | Case No. | Weight | List Price |
|----------|--------------------|----------------|----------|--------------|------------|
| T-101 | Single 56, 76, 6C5 | 200-500 | 1A | 1 lb. 4 ozs. | \$6.53 |
| T-102 | P.P. 56, 76, 6C5 | 200-500 | 1A | 1 lb. 4 ozs. | 7.00 |

OUTPUT TRANSFORMERS TO 500-200 OR 15-8-4 OHMS

| Type No. | From | Primary Ohms | Case No. | Weight | List Price |
|----------|--|----------------|----------|---------------|------------|
| T-104 | Single 2A5, 6F6, 42, 47, 89 | 7,000 | 2A | 1 lb. 14 ozs. | \$8.80 |
| T-105 | Class "A," P.P. 2A5's, 6F6's, 42's, 47's, 89's | 14,000 | 2A | 2 lbs. | 9.55 |
| T-317 | Class "AB" P.P. 6L6's | 6,000 or 3,800 | 4A | 5 lbs. 6 ozs. | 15.70 |
| T-319 | Class "AB2" P.P. 6L6's | 6,000 or 3,800 | 5A | 8 lbs. 7 ozs. | 19.90 |
| T-301 | Class "A," P.P. 6L6's, Class AB 45's, 2A3's | 5,000 or 3,000 | 4A | 4 lbs. 5 ozs. | 14.10 |



KENYON "T" LINE TRANSFORMERS

KEN-O-DYNE UNIVERSAL OUTPUT TRANSFORMERS

| Type No. | | Case No. | Weight | List Price | |
|----------|----------|----------|----------------|------------|---|
| T-108 | 15 watts | 3A | 2 lbs. 13 ozs. | \$10.80 | Will match any set of Push-Pull or Push-Pull Parallel or a single plate to 500-200 or speaker voice-coils. Low impedance connection for speaker voice coils range from .5 to 25 ohms. |
| T-109 | 30 watts | 4A | 5 lbs. 2 ozs. | 15.20 | |
| T-110 | 60 watts | 5A | 10 lbs. 1 oz. | 20.40 | |

KEN-O-TAP MODULATION TRANSFORMERS

| Type No. | Audio Watts | Class C W. Sec. | Max. Pri. D.C. | Max. Sec. D.C. | Max. D.C. Voltage | Primary Range Ohms | Secondary Range Ohms | Case No. | Weight | List Price |
|----------|-------------|-----------------|----------------|----------------|-------------------|--------------------|----------------------|----------|---------------|------------|
| T-489 | 15 | 30 | 120 | 120 | 600 | 2000-20000 | 200-20000 | 3A | 2 lbs. 13 oz. | \$10.30 |
| T-493 | 40 | 80 | 250 | 250 | 750 | 2000-20000 | 200-20000 | 4A | 5 lbs. 10 oz. | 14.95 |
| T-494 | 75 | 150 | 250 | 300 | 1250 | 2000-20000 | 200-20000 | 5A | 9 lbs. | 20.30 |
| T-441 | 125 | 250 | 250 | 250 | 1500 | 2000-20000 | 200-20000 | 6A | 15 lbs. 8 oz. | 28.20 |
| T-495 | 125 | 250 | 200 | 250 | 2000 | 500-18000 | 200-19000 | 7A | 19 lbs. 2 oz. | 54.20 |
| T-496 | 300 | 600 | 250 | 300 | 2500 | 500-18000 | 200-19000 | 8A | 26 lbs. 4 oz. | 63.00 |
| T-442 | 600 | 1200 | 400 | 400 | 3000 | 500-18000 | 200-19000 | 9A | 45 lbs. | 70.50 |

PLATE TRANSFORMERS DESIGNED FOR INTERMITTENT DUTY ONLY

(55°C. RISE— 15 Minutes On, 15 Minutes Off)

| Type No. | Secondary Voltage | D.C. Volts | D.C., M A | Case No. | Weight | List Price |
|----------|---------------------------------|----------------|-----------|----------|----------------|------------|
| T-668 | 1000/750-0-750/1000 | 600/800 | 250 | 5½A | 12 lbs., 6 oz. | \$24.40 |
| T-669 | 1460/1180-0-1180/1460 | 1000/1250 | 300 | 7A | 19 lbs., 2 oz. | 36.50 |
| T-670 | 2360/2080/1760-0-1760/2080/2360 | 1500/1750/2000 | 270 | 8A | 31 lbs., 9 oz. | 51.90 |
| T-671 | 1460/1180-0-1180/1460 | 1000/1250 | 450 | 8A | 31 lbs., 9 oz. | 50.25 |

PLATE TRANSFORMERS DESIGNED FOR BOTH CONTINUOUS AND INTERMITTENT DUTY

| Type No. | Primary Conn. | Volts Secondary No. 1 | | 55°C. Rise MA Cont. | 55°C. Rise 15Min On Off MA Int. | Volts Secondary No. 2 | | 55°C. Rise MA Cont. | 55°C. Rise 15Min On Off MA Int. | Volts Secondary No. 3 | | 55°C. Rise MA Cont. | 55°C. Rise 15Min On Off MA Int. | Case No. | Weight | List Price |
|----------|--------------------|-----------------------|-------------------------------------|---------------------|---------------------------------|-----------------------|-------------------------------------|---------------------|---------------------------------|-----------------------|-------------------------------------|---------------------|---------------------------------|----------|-----------------|------------|
| | | D.C. | A.C. | | | D.C. | A.C. | | | D.C. | A.C. | | | | | |
| T-664 | | 600 | 740-0-740 | 150 | 200 | | | | | | | | | 5A | 10 lbs., 10 oz. | \$ 19.55 |
| T-655 | High Low | 450 350 | 575-0-575 460-0-460 | — 250 | 340 375 | | | | | | | | | 5A | 10 lbs., 1 oz. | 20.60 |
| T-656 | High Low | 750 600 | 925-0-925 740-0-740 | — 270 | 320 360 | | | | | | | | | 6A | 15 lbs., 9 oz. | 31.60 |
| T-657 | High Low | 1000 750 | 1170-0-1170 900-0-900 | — 150 | 200 225 | 1000 750 | 1170-0-1170 900-0-900 | — 150 | 200 225 | | | | | 7A | 21 lbs., 9 oz. | 46.25 |
| T-658 | High Med Low | 500 450 400 | 650-0-650 585-0-585 520-0-520 | — 150 | 200 225 250 | 560 510 450 | 710-0-710 640-0-640 570-0-570 | — 150 | 200 225 250 | 560 510 450 | 710-0-710 640-0-640 570-0-570 | — 150 | 200 225 250 | 7A | 22 lbs., 12 oz. | 49.40 |
| T-654 | High Med Low | 470 420 375 | 610-0-610 550-0-550 490-0-490 | — 200 | 250 275 300 | 625 560 500 | 785-0-785 710-0-710 630-0-630 | — 200 | 250 275 300 | 625 560 500 | 785-0-785 710-0-710 630-0-630 | — 200 | 250 275 300 | 8A | 32 lbs., 9 oz. | 52.75 |
| T-659 | High Med Low | 500 450 400 | 650-0-650 585-0-585 520-0-520 | — 230 | 300 325 350 | 560 510 450 | 710-0-710 640-0-640 570-0-570 | — 230 | 300 325 350 | 560 510 450 | 710-0-710 640-0-640 570-0-570 | — 230 | 300 325 350 | 9A | 48 lbs. | 63.70 |
| T-665 | High Low | 1250 1000 | 1470-0-1470 1180-0-1180 | — 200 | 270 300 | | | | | | | | | 7A | 23 lbs., 4 oz. | 47.50 |
| T-666 | | 1250 | 1460-0-1460 | 280 | 350 | | | | | | | | | 8A | 32 lbs., 2 oz. | 52.20 |
| T-667 | | 1250 | 1460-0-1460 | 400 | 600 | | | | | | | | | 9A | 50 lbs. | 64.00 |
| T-660 | | 1250 | 1460-0-1460 | 400 | 600 | 500 | 630-0-630 | 150 | 200 | | | | | 9A | 49 lbs., 11 oz. | 67.50 |
| T-652 | High Low | 1750 1500 | 2080-0-2080 1760-0-1760 | — 320 | 450 500 | | | | | | | | | 9A | 50 lbs., 8 oz. | 67.50 |
| T-663 | | 2000 | 2360-0-2360 | 350 | 500 | | | | | | | | | 10A | 82 lbs. | 117.00 |
| T-673 | High Low | 3000 2500 | 3400-0-3400 2840-0-2840 | — 425 | 400 500 | | | | | | | | | 10A | 82 lbs. | 121.00 |
| T-674 | High Low | 3000 2500 | 3400-0-3400 2840-0-2840 | — 850 | 800 1000 | | | | | | | | | Spec. | 135 lbs. | 170.00 |

PRIMARIES FOR 115 or 230 VOLTS

KENYON "T" LINE TRANSFORMERS



FILTER REACTORS

| Type No. | Inductance At Rated D.C. | Rated D.C. MA. | D.C. Resistance | Insulation Test R.M.S. | Case No. | Weight | List Price |
|----------|--------------------------|----------------|-----------------|------------------------|----------|-----------------|------------|
| T-155 | 280 | 10 | 5200 | 1500 | 2A | 2 lbs. | \$ 6.90 |
| T-156 | 30 | 25 | 800 | 1500 | 1A | 1 lb., 4 oz. | 5.25 |
| T-157 | 10 | 50 | 200 | 1500 | 1A | 1 lb., 4 oz. | 5.15 |
| T-153 | 20 | 90 | 360 | 1500 | 3A | 2 lbs., 12 oz. | 7.55 |
| T-154 | 12.5 | 165 | 220 | 1500 | 3A | 3 lbs., 2 oz. | 8.60 |
| T-151 | 7.5 | 250 | 100 | 1500 | 4A | 5 lbs., 10 oz. | 11.80 |
| T-152 | 7 | 200 | 140 | 1500 | 3A | 2 lbs., 13 oz. | 8.15 |
| T-164 | 13 | 250 | 120 | 1500 | 5A | 10 lbs., 1 oz. | 17.40 |
| T-166 | 10 | 300 | 120 | 1500 | 5A | 10 lbs., 1 oz. | 17.40 |
| T-159 | 10 | 500 | 70 | 1500 | 6A | 15 lbs., 9 oz. | 26.50 |
| T-165 | 10 | 150 | 260 | 3000 | 3A | 3 lbs., 2 oz. | 8.60 |
| T-168 | 12 | 250 | 120 | 3000 | 5A | 10 lbs., 10 oz. | 17.40 |
| T-160 | 11 | 300 | 120 | 3000 | 5A | 10 lbs., 1 oz. | 17.40 |
| T-167 | 11 | 400 | 70 | 3000 | 6A | 15 lbs., 9 oz. | 26.50 |
| T-175 | 10 | 200 | 140 | 5000 | 4A | 5 lbs., 10 oz. | 11.90 |
| T-176 | 10 | 300 | 103 | 5000 | 5A | 10 lbs., 11 oz. | 19.30 |
| T-178 | 10 | 400 | 90 | 5000 | 6A | 15 lbs., 2 oz. | 27.50 |
| T-177 | 11 | 500 | 90 | 5000 | 7A | 21 lbs., 1 oz. | 37.40 |
| T-161 | 7.5 | 600 | 50 | 5000 | 7A | 21 lbs., 4 oz. | 36.40 |
| T-180 | 10 | 500 | 60 | 7000 | 8A | 26 lbs., 4 oz. | 48.20 |
| T-181 | 5 | 1000 | 18 | 7000 | 9A | 50 lbs. | 70.50 |

SWINGING REACTORS

| Type No. | Inductance At Rated D.C. | Rated D.C. MA. | D.C. Resistance | Insulation Test R.M.S. | Case No. | Weight | List Price |
|----------|--------------------------|----------------|-----------------|------------------------|----------|----------------|------------|
| T-517 | 11/40 | 90/20 | 360 | 1500 | 3A | 2 lbs., 12 oz. | \$ 7.55 |
| T-515 | 6/21 | 165/30 | 220 | 1500 | 3A | 3 lbs., 2 oz. | 8.60 |
| T-506 | 4/16 | 200/30 | 140 | 1500 | 3A | 2 lbs., 13 oz. | 8.15 |
| T-501 | 5/15 | 250/30 | 100 | 1500 | 4A | 5 lbs., 10 oz. | 11.80 |
| T-510 | 6/20 | 300/30 | 120 | 1500 | 5A | 10 lbs., 1 oz. | 17.40 |
| T-502 | 6/22 | 500/50 | 70 | 1500 | 6A | 15 lbs., 9 oz. | 26.50 |
| T-509 | 7/22 | 200/30 | 140 | 5000 | 4A | 5 lbs., 10 oz. | 12.05 |
| T-512 | 6/22 | 300/30 | 103 | 5000 | 5A | 10 lbs., 1 oz. | 17.40 |
| T-513 | 5/24 | 400/50 | 90 | 5000 | 6A | 15 lbs., 2 oz. | 27.50 |
| T-521 | 6/26 | 500/60 | 90 | 5000 | 7A | 21 lbs., 1 oz. | 37.40 |
| T-505 | 6/21 | 600/60 | 50 | 5000 | 7A | 21 lbs., 4 oz. | 36.40 |
| T-516 | 6/22 | 400/50 | 70 | 3000 | 6A | 15 lbs., 9 oz. | 26.50 |
| T-530 | 6/21 | 500/50 | 60 | 7000 | 8A | 26 lbs., 4 oz. | 48.20 |
| T-531 | 3/9 | 1000/100 | 18 | 7000 | 9A | 50 lbs. | 70.50 |

OPERATING VOLTAGES FOR 1500 VOLT TEST—UP TO 600 VOLTS D.C.
 OPERATING VOLTAGES FOR 3000 VOLT TEST—UP TO 1000 VOLTS D.C.
 OPERATING VOLTAGES FOR 5000 VOLT TEST—UP TO 2000 VOLTS D.C.
 OPERATING VOLTAGES FOR 7000 VOLT TEST—UP TO 3000 VOLTS D.C.

PLATE AND FILAMENT TRANSFORMERS

| Type No. | High Voltage—Volts | M.A. | Filament No. 1 Volts | Amps | Filament No. 2 Volts | Amps | Filament No. 3 Volts | Amps | Filament No. 4 Volts | Amps | Case No. | Weight | List Price |
|----------|---|------|------------------------|------------------------|--------------------------|-------------------------------|-------------------------------|----------------|----------------------|------|----------|------------------|------------|
| T-249* | 235-0-235 | 20 | 6.3 C.T. | 0.6 | 6.3 C.T. | 0.9 | | | | | 2A | 2 lbs. | \$ 9.95 |
| T-245* | 320-0-320 | 40 | 5 | 2 | 6.3 C.T. | 2 | | | | | 3A | 2 lbs. 13 ozs. | 11.20 |
| T-205* | 350-0-350 | 75 | 5 | 2 | 6.3 C.T. | 3 | | | | | 4A | 5 lbs. 10 ozs. | 15.60 |
| T-222* | 250-0-250 | 50 | 5 | 2 | 6.3 C.T. | 2 | | | | | 3A | 2 lbs. 13 ozs. | 10.70 |
| T-206* | 325-0-325 | 100 | 5 | 3 | 6.3 C.T. | 3 | 6.3 C.T. | 2 | | | 5A | 9 lbs. | 21.20 |
| T-212 | 420-0-420 | 125 | 5 | 3 | 6.3 C.T. | 3 | 2.5 C.T. | 4 | | | 5A | 9 lbs. 2 ozs. | 21.30 |
| T-244* | 425-0-425 | 165 | 5 | 3 | 6.3 C.T. | 3 | 6.3 C.T. | 3 | | | 6A | 13 lbs. 11 ozs. | 27.10 |
| T-248* | 425-0-425 | 165 | 5 | 3 | 2.5 C.T. | 6 | 2.5 C.T. | 6 | | | 6A | 13 lbs. 11 ozs. | 27.10 |
| T-213 | 520-110-0-520 | 180 | 5 | 3 | 2.5 | 3 | 6.3 C.T. | 3 | 6.3 C.T. | 3 | 5A | 10 lbs. 6 ozs. | 25.10 |
| T-215 | 360-125-0-360 | 200 | 5 | 3 | 2.5 C.T. | 3 | 2.5 C.T. | 10 | 6.3 C.T. | 2.1 | 5A | 10 lbs. 10 ozs. | 25.20 |
| T-247 | 590-0-590 | 200 | 5 | 3 | 6.3 C.T. | 3 | 6.3 C.T. | 3 | | | 5A | 12 lbs. 8 ozs. | 25.90 |
| T-216 | 520-85-0-520 | 250 | 5 | 3 | 2.5 C.T. | 3 | 6.3 C.T. | 3 | 6.3 C.T. | 3 | 6A | 15 lbs. 9 ozs. | 32.00 |
| T-202* | 0-150 | 20 | 6.3 | 0.6 | | | | | | | 1A | 1 lb. 4 1/2 ozs. | 6.90 |
| T-220* | 125-0-125 | 200 | 5 | 3 | | | 6.3 C.T. | 3 | | | 4A | 5 lbs. | 13.10 |
| T-246 | 625-0-625 | 250 | 5 | 3 | 6.3 C.T. | 3 | 6.3 C.T. | 3 | | | 6A | 15 lbs. 9 ozs. | 30.60 |
| T-223 | 600-0-600 | 300 | 5 | 6 | 6.3 C.T. | 3 | 6.3 C.T. | 2 | | | 6A | 15 lbs. 9 ozs. | 31.00 |
| T-221 | High voltage secondary 520-390- and 300 V. D.C. at 160 M.A. | | Filament No. 1 5 V.-6A | Filament No. 2 5 V.-3A | Filament No. 3 2.5 V.-3A | Filament No. 4 6.3 V. C.T.-4A | Filament No. 5 6.3 V. C.T.-4A | at 400 V. D.C. | at 400 M.A. | | 7A | 21 lbs. 10 ozs. | 48.25 |

* Indicates unit designed for condenser input. All other units should be used choke input. If used with condenser input, the D.C. current rating of these items should be reduced to 70% of that specified.

POWER LINE AUTO TRANSFORMERS

| Type No. | Input | Output | Capacity Volt-Amperes | Case No. | Weight | List Price |
|----------|-----------------|-----------|-----------------------|----------|---------------|------------|
| T-219 | 88 to 130 volts | 115 volts | 500 | 5A | 10 lbs. 1 oz. | \$23.50 |

All power transformers are designed for 115 volt, 50 to 60 cycle operation. For any other voltage 50 to 60 cycle operation add 25% to list prices. For 115 volt 25 cycle operation, add 60% to list prices. For any other voltage 25 cycle operation add 100% to list prices. Case sizes for 25 cycle application are different from those specified for standard 115 volt 50 to 60 cycle operation.

KENYON "T" LINE TRANSFORMERS

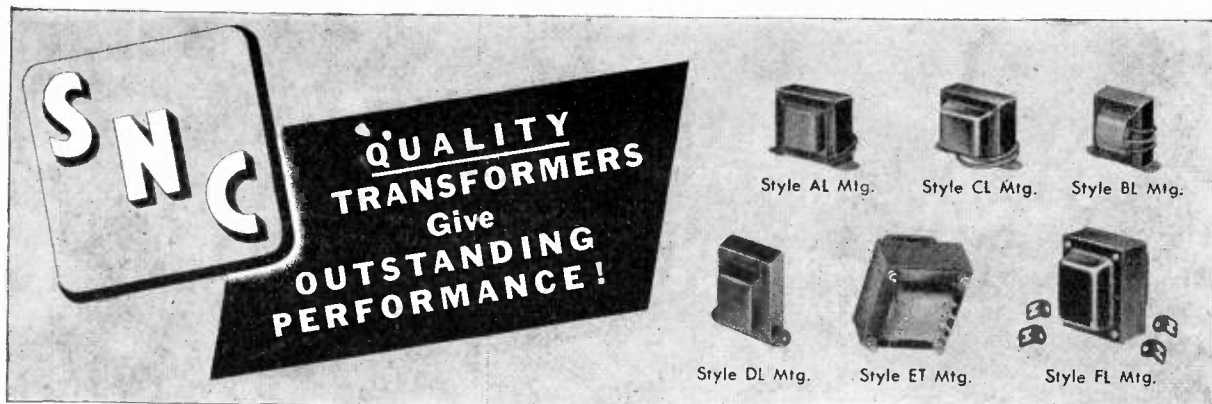


FILAMENT TRANSFORMERS

| Type No. | SINGLE WINDING | | | | Case No. | Weight | List Price |
|-----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------|-----------------------|
| T-388 | 2.5, 5, 6.3 V.-3A | 1000 V. Test | | | 1A | 1 lb. 7 ozs. | \$ 6.85 |
| T-379 | 2.5 V.-5 A. CT. | 2000 V. Test | | | 1A | 1 lb. 6 ozs. | 6.25 |
| T-352 | 2.5 V.-10 A. CT. | 2000 V. Test | | | 2A | 1 lb. 14 ozs. | 7.50 |
| T-360 | 2.5 V.-10 A. CT. | 5000 V. Test | | | 3A | 2 lbs. 13 ozs. | 9.20 |
| T-389 | 2.5 V.-10 A. CT. | 9000 V. Test | | | 4A | 4 lbs. 14 ozs. | 13.15 |
| T-354 | 5 V.-3 A. CT. | 2000 V. Test | | | 2A | 1 lb. 14 ozs. | 7.35 |
| T-357 | 5.25 V.-12 A. CT. | 2000 V. Test | | | 4A | 5 lbs. 10 ozs. | 13.70 |
| T-358 | 5.25 V.-20 A. CT. | 2000 V. Test | | | 5A | 9 lbs. 2 ozs. | 17.10 |
| T-390 | 5 V.-20 A. CT. | 10000 V. Test | | | 5½A | 11 lbs. 9 ozs. | 21.20 |
| T-380 | 5, 5.1, 5.25 V.-8 A. CT. | 2000 V. Test | | | 4A | 4 lbs. 5 ozs. | 12.05 |
| T-381 | 5, 5.1, 5.25 V.-10.5 A. CT. | 2000 V. Test | | | 4A | 5 lbs. | 13.30 |
| T-382 | 5, 5.1, 5.25 V.-16 A. CT. | 2000 V. Test | | | 4A | 5 lbs. 10 ozs. | 14.80 |
| T-383 | 5, 5.1, 5.25 V.-21 A. CT. | 2000 V. Test | | | 5A | 9 lbs. 2 ozs. | 19.20 |
| T-393 | 5, 5.1, 5.25 V.-26 A. CT. | 2000 V. Test | | | 5A | 9 lbs. 8 ozs. | 19.40 |
| T-394 | 5, 5.1, 5.25 V.-32 A. CT. | 2000 V. Test | | | 5A | 10 lbs. 8 ozs. | 20.90 |
| T-351 | 6.3 V.-3 A. CT. | 2000 V. Test | | | 2A | 1 lb. 14 ozs. | 7.15 |
| T-378 | 6.3, 7.5 V.-7 A. CT. | 2000 V. Test | | | 3A | 2 lbs. 13 ozs. | 9.50 |
| T-387 | 6.3, 6.45, 6.6 V.-8 A. CT. | 2000 V. Test | | | 3A | 2 lbs. 13 ozs. | 9.85 |
| T-395 | 6.3 V.-20 A. CT. | 2000 V. Test | | | 5A | 9 lbs. | 17.15 |
| T-396 | 6.3 V.-30 A. CT. | 2000 V. Test | | | 5½A | 12 lbs. | 23.50 |
| T-397 | 6.3 V.-12 A. CT. | 2000 V. Test | | | 4A | 5 lbs. 12 ozs. | 13.85 |
| T-392 | 7.5, 7.7, 7.9 V.-6 A. CT. | 2000 V. Test | | | 3A | 2 lbs. 13 ozs. | 9.95 |
| T-353 | 7.5 V.-4½ A. CT. | 2000 V. Test | | | 2A | 2 lbs. | 7.75 |
| T-359 | 7.5 V.-9 A. CT. | 2000 V. Test | | | 4A | 5 lbs. | 13.10 |
| T-365 | 10 V.-4 A. CT. | 5000 V. Test | | | 3A | 2 lbs. 13 ozs. | 9.10 |
| T-361 | 10 V.-8 A. CT. | 5000 V. Test | | | 4A | 5 lbs. 10 ozs. | 14.10 |
| T-384 | 10, 10.5, 11 V.-5 A. CT. | 2000 V. Test | | | 4A | 5 lbs. | 13.10 |
| T-385 | 10, 10.5, 11 V.-10 A. CT. | 2000 V. Test | | | 5A | 8 lbs. 15 ozs. | 19.30 |
| TWO WINDINGS | | | | | | | |
| T-386 | 6.3 V.- 3 A. CT. | 2000 V. Test | 5 V.- 4 A. CT. | 2000 V. Test | 3A | 2 lbs. 13 ozs. | \$10.30 |
| T-369 | 2.5 V.- 8 A. CT. | 1000 V. Test | 6.3 V.- 4 A. CT. | 1000 V. Test | 4A | 4 lbs. 11 ozs. | 13.70 |
| T-368 | 6.3 V.- 4 A. CT. | 2000 V. Test | 6.3 V.- 4 A. CT. | 2000 V. Test | 4A | 4 lbs. 11 ozs. | 13.70 |
| T-366 | 2.5 V.-10 A. CT. | 5000 V. Test | 2.5 V.-10 A. CT. | 5000 V. Test | 4A | 5 lbs. 10 ozs. | 15.40 |
| THREE WINDINGS | | | | | | | |
| T-376 | 6.3 V.-4 A. CT. 2000 V. Test | 6.3 V.-4 A. CT. 2000 V. Test | 5 V.-3 A. | 2000 V. Test | 4A | 5 lbs. 10 ozs. | \$14.20 |
| T-356 | 6.3 V.-3 A. CT. 750 V. Test | 5 V.-4 A. CT. 3000 V. Test | 5 V.-8 A. CT. | 3000 V. Test | 4A | 5 lbs. 9 ozs. | 14.20 |
| T-355 | 5 V.-3 A. CT. 4000 V. Test | 5 V.-3 A. CT. 4000 V. Test | 5 V.-6 A. CT. | 4000 V. Test | 4A | 5 lbs. 10 ozs. | 14.70 |
| T-375 | 2.5 V.-5 A. CT. 6000 V. Test | 2.5 V.-5 A. CT. 6000 V. Test | 2.5 V.-10 A. CT. | 6000 V. Test | 4A | 5 lbs. 9 ozs. | 14.80 |
| FOUR WINDINGS | | | | | | | |
| T-367 | 6.3 V.-5 A. CT. 2000 V. Test | 6.3 V.-5 A. CT. 2000 V. Test | 5 V.-6 A. CT. 2000 V. Test | 5 V.-3 A. CT. 2000 V. Test | 5A | 10 lbs. 1 oz. | \$21.00 |
| FIVE WINDINGS | | | | | | | |
| T-377 | 5 V.-3 A. 2000 V. Test | 5 V.-6 A. 2000 V. Test | 6.3 V.-1 A. CT. 2000 V. Test | 6.3 V.-5 A. CT. 2000 V. Test | 6.3 V.-5 A. CT. 2000 V. Test | 5A | 10 lbs. 1 oz. \$21.25 |

OPERATING VOLTAGES FOR 2000 VOLT TEST—UP TO 750 VOLTS D.C.
 OPERATING VOLTAGES FOR 3000 VOLT TEST—UP TO 1000 VOLTS D.C.
 OPERATING VOLTAGES FOR 4000 VOLT TEST—UP TO 1500 VOLTS D.C.
 OPERATING VOLTAGES FOR 5000 VOLT TEST—UP TO 2000 VOLTS D.C.
 OPERATING VOLTAGES FOR 9000 VOLT TEST—UP TO 4000 VOLTS D.C.
 OPERATING VOLTAGES FOR 10000 VOLT TEST—UP TO 4500 VOLTS D.C.

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



Skillful Engineering, latest production techniques and highest quality materials . . . backed by careful workmanship, exacting step-by-step inspection and rigorous final testing . . . are combined in every SNC transformer to provide a quality product that gives MORE in dollar value.

AUDIO TRANSFORMERS—THE "ONE" SERIES

AUDIO INPUT

| Type Number | Application | Impedance | | Pri. Mils (D.C.) | Max. Turns Ratio | Frequency Characteristics—c. p. s. | | | | | Mtg. Style | Dimensions | | | | Net Wt. | List Price | |
|-------------|---|-------------|--------------|------------------|------------------|------------------------------------|------|----|------|------|------------|------------|-------|--------|---------|---------|------------|------|
| | | Primary | Secondary | | | 50 | 200 | 1M | 5M | 10M | | A | B | C | D | | | |
| 1P121 | P.M. Speaker to Grid | 4 | 100,000 | 0 | 1:158 | -4.0 | -1.0 | 0 | 0 | 0 | 0 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | .5 | 2.90 |
| 1P124 | S.B. Mic. to Sgl. or P.P. Grids | 100 | 400,000 C.T. | 50 | 1:63 | -6.0 | -6.0 | 0 | -2.0 | -6.0 | 0 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | .5 | 3.10 |
| 1P125 | Low Z to Sgl. or P.P. Grids | 50 | 100,000 C.T. | 0 | 1:45 | -3.0 | 0 | 0 | 0 | 0 | 0 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | .5 | 2.85 |
| 1P128 | Sgl. or D.B. Mic. or Line to Sgl. or P.P. Grids | 200*/50 | 100,000 C.T. | 50 | 1:45 | -2.0 | -0.3 | 0 | -0.7 | -2.0 | 0 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | 1.3 | 4.50 |
| 1P136 | Line to Sgl. or P.P. Grids | 500*/125 | 100,000 C.T. | 0 | 1:28 | -3.0 | -0.4 | 0 | -0.4 | -1.5 | 0 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | 1.4 | 4.50 |
| 1P145 | Sgl. or P.P. Plates to Line | 20,000 C.T. | 500*/125 | 8 | 12.6:1 | -3.5 | -1.0 | 0 | 0 | 0 | 0 | DL | 2-1/4 | 1-7/8 | 1-13/16 | 2-3/8 | .9 | 3.70 |
| 1P152 | Sgl. or P.P. Plates to Line | 20,000 C.T. | 200*/50 | 8 | 20:1 | -4.0 | -1.0 | 0 | 0 | 0 | 0 | DL | 2-1/4 | 1-7/8 | 1-13/16 | 2-3/8 | .9 | 3.70 |
| 1P161 | Line to Line | 500 | 500*/125 | 0 | 2:1 | -0.4 | -0.1 | 0 | -0.4 | -1.0 | 0 | DL | 2-1/4 | 1-7/8 | 1-13/16 | 2-3/8 | .9 | 4.00 |

*Indicates Balanced Center Tap

AUDIO INTERSTAGE

| | | | | | | | | | | | | | | | | | |
|-------|--|-------------|-------------|----|-------|------|------|---|------|------|----|-------|--------|---------|---------|-----|------|
| 1P323 | Sgl. Plate to Sgl. Grid | 10,000 | 90,000 | 8 | 1:3 | -5.0 | -1.5 | 0 | 0 | 0 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | .5 | 2.70 |
| 1P331 | Sgl. Plate to P.P. Grids | 10,000 | 90,000 C.T. | 8 | 1:3 | -6.0 | -2.0 | 0 | 0 | -1.0 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | .5 | 2.90 |
| 1P339 | Sgl. Plate to P.P. Grids | 10,000 | 90,000 C.T. | 8 | 1:3 | -3.0 | -0.5 | 0 | +0.1 | -0.5 | BL | 2-1/4 | 1-7/8 | 1-13/16 | 2-3/8 | .9 | 3.25 |
| 1P342 | Sgl. Plate to P.P. Grids | 10,000 | 90,000 C.T. | 8 | 1:3 | -2.5 | -0.5 | 0 | 0 | 0 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | 1.5 | 4.20 |
| 1P346 | P.P. Plates to P.P. Grids | 20,000 C.T. | 45,000 C.T. | 10 | 1:1.5 | -1.0 | -0.2 | 0 | 0 | 0 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | 1.5 | 4.35 |
| 1P351 | Universal | Universal | | 8 | 1:3 | -2.0 | -0.4 | 0 | 0 | 0 | DL | 2-1/4 | 1-7/8 | 1-13/16 | 2-3/8 | .9 | 3.45 |
| 3P363 | Sgl. Type 30 to 19, 1J5 or P.P. 30 Class B | 10,000 | 7,000 C.T. | 8 | 2.4:1 | -0.5 | 0 | 0 | -0.2 | -1.0 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | .5 | 2.35 |

CHOKES AND REACTORS—THE "TWO" SERIES

AUDIO REACTORS

| Type Number | D.C. Mils | | Inductance | | | | Insul. Test Voltage | D.C. Res. | Mtg. Style | Dimensions | | | | | Net Weight | List Price |
|-------------|-----------|------|------------|---------------|-----------|-----------|---------------------|-----------|------------|------------|-------|-------|---------|---|------------|------------|
| | Nom. | Max. | 0-D.C. | 50% Nom. D.C. | Nom. D.C. | Max. D.C. | | | | A | B | C | D | E | | |
| 2P123 | 5-0.5 | 15 | 550 | — | 300-500 | 80 | 2000 | 5500 | AL | 1-7/8 | 2-1/4 | 1-5/8 | 2-13/16 | | .9 | 2.90 |
| 2P124 | 5-0.5 | 15 | 550 | — | 300-500 | 80 | 2000 | 5500 | CL | 1-7/8 | 2-1/4 | 1-3/4 | 2-13/16 | | .9 | 3.25 |
| 2P126 | 35-15 | 45 | 65 | — | 25-35 | 20 | 2000 | 800 | AL | 1-7/8 | 2-1/4 | 1-5/8 | 2-13/16 | | .9 | 2.30 |
| 2P127 | 35-15 | 45 | 65 | — | 25-35 | 20 | 2060 | 800 | CL | 1-7/8 | 2-1/4 | 1-3/4 | 2-13/16 | | .9 | 2.70 |

FILTER AND SWINGING CHOKES

| | | | | | | | | | | | | | | | | |
|-------|--------|-----|----|------|------|-----|------|-----|----|--------|--------|---------|---------|---------|------|-------|
| 2P132 | 40 | 50 | 22 | 13 | 8 | 6 | 2000 | 450 | AL | 1-5/16 | 1-5/8 | 1-1/8 | 2 | | .3 | 1.50 |
| 2P135 | 65 | 80 | 18 | 11 | 8 | 7 | 2000 | 300 | AL | 1-9/16 | 1-7/8 | 1-3/8 | 2-3/8 | | .5 | 1.80 |
| 2P138 | 85 | 100 | 30 | 16 | 8 | 7 | 2000 | 350 | AL | 1-7/8 | 2-1/4 | 1-7/8 | 2-13/16 | | 1.2 | 2.35 |
| 2P141 | 110 | 135 | 20 | 10.5 | 8 | 7 | 2000 | 200 | BL | 2-5/8 | 2-3/16 | 1-7/8 | 2-13/16 | | 1.5 | 3.10 |
| 2P142 | 110 | 135 | 20 | 10.5 | 8 | 7 | 2000 | 200 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | | 1.5 | 3.25 |
| 2P144 | 150 | 180 | 26 | 13 | 8 | 5.5 | 2000 | 190 | BL | 3 | 2-1/2 | 2-1/8 | 3-1/8 | | 2.1 | 3.10 |
| 2P145 | 150 | 180 | 26 | 13 | 8 | 5.5 | 2000 | 190 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.2 | 4.20 |
| 2P147 | 200 | 250 | 16 | 10 | 8 | 6.5 | 3500 | 110 | GL | 3-1/2 | 2-7/8 | 3-1/8 | 2-1/4 | 2 | 3.2 | 5.40 |
| 2P148 | 200-20 | — | — | — | 3-15 | — | — | — | GL | 3-1/2 | 2-7/8 | 3-1/8 | 2-1/4 | 2 | 3.2 | 5.40 |
| 2P151 | 300 | 350 | 18 | 11 | 8 | 7 | 5000 | 75 | GL | 4-5/8 | 3-3/4 | 3-7/8 | 3 | 2-13/16 | 7.5 | 9.25 |
| 2P152 | 300-30 | — | — | — | 3-15 | — | — | — | GL | 4-5/8 | 3-3/4 | 3-7/8 | 3 | 2-13/16 | 7.5 | 9.25 |
| 2P155 | 500 | 600 | 16 | 10 | 8 | 5.5 | 5000 | 55 | HT | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 22.8 | 26.00 |
| 2P156 | 500-50 | — | — | — | 3-15 | — | — | — | HT | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 22.8 | 26.00 |

DRIVER TRANSFORMERS—THE "THREE" SERIES

| Type Number | Primary Impedance | Watts | Ratio, Pri. to 1/2 Sec. or Sec. Z | Pri. D.C. Mils | Frequency Characteristics—c. p. s. | | | | | Mtg. Style | Dimensions | | | | | Net Wt. | List Price |
|-------------|---------------------------|-------|-----------------------------------|----------------|------------------------------------|------|----|------|------|------------|------------|--------|-------|---|---------|---------|------------|
| | | | | | 50 | 200 | 1M | 5M | 10M | | A | B | C | D | E | | |
| 3P323 | 6,000 C.T. to 10,000 C.T. | 25 | 6, 5.5, 5:1 | 60 | -0.5 | 0 | 0 | 0 | -0.3 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.40 |
| 3P328 | 3,000 C.T. to 5,000 C.T. | 25 | 6, 5.5, 5:1 | 60 | -0.4 | 0 | 0 | 0 | -0.1 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.40 |
| 3P334 | 6,000 C.T. to 10,000 C.T. | 25 | 4.5, 4, 3.5:1 | 60 | -1.0 | -0.3 | 0 | +0.1 | +0.6 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.30 |
| 3P338 | 3,000 C.T. to 5,000 C.T. | 25 | 4.5, 4, 3.5:1 | 60 | -1.7 | -0.5 | 0 | 0 | 0 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.45 |
| 3P342 | 6,000 C.T. to 10,000 C.T. | 25 | 3, 2, 1:1 | 60 | -0.7 | -0.1 | 0 | -0.1 | -0.4 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.80 |
| 3P347 | 3,000 C.T. to 5,000 C.T. | 25 | 3, 2, 1:1 | 60 | -0.8 | 0 | 0 | 0 | -0.8 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.65 |
| 3P353 | 6,000 C.T. to 10,000 C.T. | 25 | 500 Ohms | 60 | -1.1 | -0.3 | 0 | 0 | +0.3 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.50 |
| 3P357 | 3,000 C.T. to 5,000 C.T. | 25 | 500 Ohms | 60 | -0.9 | -0.1 | 0 | -0.4 | -1.0 | GL | 3-1/8 | 2-1/2 | 2-5/8 | 2 | 1-11/16 | 2.3 | 9.50 |
| 3P363 | 10,000 | 5 | 2.4:1 | 10 | -0.5 | 0 | 0 | -0.2 | -1.0 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | | .5 | 2.35 |

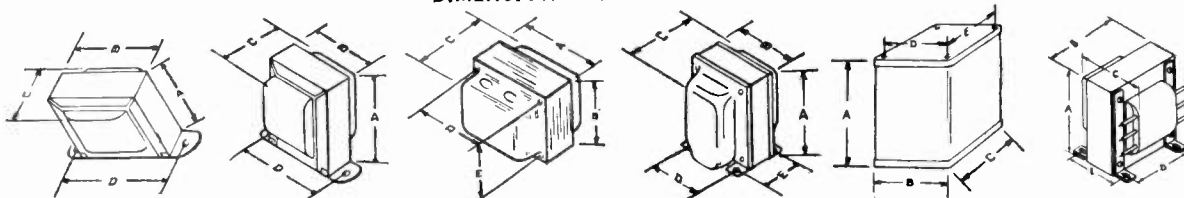
See next page for Dimensional Illustrations.

SNC

QUALITY TRANSFORMERS Give OUTSTANDING PERFORMANCE!



DIMENSIONAL ILLUSTRATIONS



OUTPUT TRANSFORMERS—THE "SIX" SERIES

SPECIFIC DUTY REPLACEMENT TYPES—TUBE TO VOICE COIL

| Type Number | Primary Imp.—Ohms | Pri. D.C. Mils | Sec. Z—Ohms | Watts | Mtg. Style | Dimensions | | | | Net Wt. | List Price |
|-------------|------------------------------|----------------|-------------|-------|------------|------------|-------|-------|---|---------|------------|
| | | | | | | A | B | C | D | | |
| 6P300 | Single 2,000 Plate | 50 | 3-6 | 6 | AL | 1-5/16 | 1-5/8 | 1-1/2 | 2 | .3 | 1.50 |
| 6P306 | Single 4,000 Plate | 35 | 3-6 | 6 | AL | 1-5/16 | 1-5/8 | 1-1/2 | 2 | .3 | 1.50 |
| 6P312 | Single or P.P. 7,500 Plates | 35 | 3-6 | 6 | AL | 1-5/16 | 1-5/8 | 1-1/2 | 2 | .3 | 2.00 |
| 6P316 | Single or P.P. 10,000 Plates | 35 | 3-6 | 6 | AL | 1-5/16 | 1-5/8 | 1-1/2 | 2 | .3 | 2.00 |
| 6P319 | Push-Pull 15,000 Plates | 35 | 3-6 | 6 | AL | 1-5/16 | 1-5/8 | 1-1/2 | 2 | .3 | 2.05 |
| 6P321 | Push-Pull 20,000 Plates | 30 | 3-6 | 6 | AL | 1-5/16 | 1-5/8 | 1-1/2 | 2 | .3 | 2.05 |
| 6P325 | Push-Pull 25,000 Plates | 20 | 3-6 | 6 | AL | 1-5/16 | 1-5/8 | 1-1/2 | 2 | .3 | 2.05 |

UNIVERSAL REPLACEMENT TYPES—TUBE TO VOICE COIL—TUBE TO LINE—LINE TO VOICE COIL

| Type Number | Primary Imp.—Ohms | Pri. D.C. Mils | Sec. Z—Ohms | Watts | Mtg. Style | Dimensions | | | | Net Wt. | List Price |
|-------------|---------------------------------|----------------|-------------|-------|------------|------------|--------|-------|---------|---------|------------|
| | | | | | | A | B | C | D | | |
| 6P165 | Sgl. or P.P. 4M to 14M Plates | 40 | 1.1 to 14 | 4 | ATL | 1-5/16 | 1-5/8 | 1-3/8 | 2 | .3 | 2.35 |
| 6P166 | Sgl. or P.P. 4M to 14M Plates | 50 | 1.1 to 14 | 8 | ATL | 1-5/16 | 1-7/8 | 1-5/8 | 2-3/8 | .5 | 2.35 |
| 6P167 | Sgl. or P.P. 3M to 10M Plates | 50 | 1.2 to 13 | 15 | BTL | 1-7/8 | 1-9/16 | 1-3/4 | 2 | .5 | 2.90 |
| 6P169 | Sgl. 1500 to 7M Plate | 55 | .8 to 19 | 10 | ATL | 1-5/16 | 1-7/8 | 1-5/8 | 2-3/8 | .5 | 2.35 |
| 6P172 | P.P. 3500 to 12M Plates | 60 | 1.3 to 14 | 20 | BTL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | 1.5 | 4.25 |
| 6P701 | Single 2500 to 7500 Plate | 45 | 165 to 1500 | 10 | BTL | 2-1/4 | 1-7/8 | 1-7/8 | 2-3/8 | .9 | 3.70 |
| 6P710 | P.P. 7500 to 15M Plates | 45 | 250 to 1000 | 10 | BTL | 2-1/4 | 1-7/8 | 1-7/8 | 2-3/8 | .9 | 4.20 |
| 6P714 | Sgl. or P.P. 2500 to 12M Plates | 45 | 150 to 2400 | 10 | BTL | 2-1/4 | 1-7/8 | 1-7/8 | 2-3/8 | .9 | 4.40 |
| 6P717 | 125 to 500 Line | 0 | 1 to 32 | 35 | BTL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | 1.5 | 4.50 |
| 6P722 | 500 to 3M Line in 500-Ohm Steps | 0 | 1.3 to 48 | 10 | BTL | 2-1/4 | 1-7/8 | 1-7/8 | 2-3/8 | .9 | 4.25 |

AMPLIFIER AND EQUIPMENT TYPES—TUBE TO LINE AND VOICE COIL

| Type Number | Primary Imp.—Ohms | Pri. D.C. Mils | Secondary Imp.—Ohms | Watts | Frequency Characteristics—c. p. s. | | | | | Mtg. Style | Dimensions | | | | | Net Wt. | List Price |
|-------------|--------------------------|----------------|---------------------|-------|------------------------------------|------|----|------|------|------------|------------|--------|-------|---------|--------|---------|------------|
| | | | | | 50 | 200 | 1M | 5M | 10M | | A | B | C | D | E | | |
| | | | | | | | | | | | A | B | C | D | E | | |
| 6P726 | P.P. 3300 or 3800 Plates | 90 | 4-8-16-250-500 | 60 | -0.3 | 0 | 0 | +0.1 | +0.5 | GL | 3-3/4 | 3-1/16 | 3-3/8 | 2-1/2 | 2-3/16 | 4.4 | 8.90 |
| 6P731 | P.P. 4500 or 6800 Plates | 90 | 4-8-16-250-500 | 60 | -0.3 | 0 | 0 | +0.2 | 0 | GL | 3-3/4 | 3-1/16 | 3-3/8 | 2-1/2 | 2-3/16 | 4.4 | 8.90 |
| 6P736 | P.P. 5000 Plates | 70 | 4-8-16-250-500 | 25 | -0.9 | -0.2 | 0 | +0.2 | +0.5 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | | 1.5 | 6.00 |
| 6P740 | P.P. 4300 Plates | 70 | 4-8-16-250-500 | 25 | -0.9 | -0.3 | 0 | +0.3 | +0.5 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | | 1.5 | 6.00 |
| 6P743 | P.P. 6800 Plates | 70 | 4-8-16-250-500 | 25 | -0.7 | -0.1 | 0 | +0.2 | +0.5 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | | 1.5 | 6.00 |
| 6P746 | P.P. 8000 Plates | 70 | 4-8-16-250-500 | 25 | -0.7 | -0.1 | 0 | +0.1 | +0.3 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | | 1.5 | 6.00 |
| 6P749 | P.P. 10,000 Plates | 60 | 4-8-16-250-500 | 25 | -0.4 | -0.1 | 0 | +0.2 | +0.3 | DL | 2-5/8 | 2-3/16 | 2-1/8 | 2-13/16 | | 1.5 | 6.30 |
| 6P752 | Sgl. 2500 Plate | 60 | 4-8-16-250-500 | 10 | -3.0 | -0.4 | 0 | +0.3 | -0.5 | DL | 2-1/4 | 1-7/8 | 2-1/8 | 2-3/8 | | 1.0 | 4.75 |

MODULATION TRANSFORMERS—THE "FIVE" SERIES

SNC universal modulation transformers are specifically designed to provide maximum application possibilities per type. All units are provided with two identical secondary windings, permitting series or parallel operation. Changes in the ratio can be readily accomplished, when desired, without removing the unit from the chassis. Most units available in either air cooled or compound filled cases.

UNIVERSAL TYPES

| Type Number | Watts | Primary Current Mils | Secondary Characteristics | | | | Primary Impedance Ohms | Mtg. Style | Dimensions | | | | | Net Weight | List Price |
|-------------|-------|----------------------|---------------------------|------|---------------|------|------------------------|------------|------------|--------|---------|---------|---------|------------|------------|
| | | | Series Sec. | | Parallel Sec. | | | | A | B | C | D | E | | |
| | | | Impedance | Mils | Impedance | Mils | | | | | | | | | |
| 5P341 | 15 | 60 | | 50 | | 100 | 3M to 8M | DL | 2-5/8 | 2-3/16 | 2-3/8 | 2-13/16 | | 1.5 | 7.50 |
| 5P346 | 50 | 80 | 2M to 18M | 75 | 500 to 4500 | 150 | 3M to 15M | GTL | 3-7/8 | 3-1/8 | 3-3/8 | 2-1/2 | 2-3/16 | 4 | 11.75 |
| 5P352 | 100 | 120 | 2M to 18M | 100 | 500 to 4500 | 200 | 3M to 15M | GTL | 4-5/8 | 3-3/4 | 3-7/8 | 3 | 2-13/16 | 9.7 | 18.75 |
| 5P354 | 200 | 200 | 2M to 18M | 150 | 500 to 4500 | 300 | 3M to 15M | HT | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 24 | 43.00 |
| JT | | | | | | | | 32 | | | | | | 47.00 | |
| 5P357 | 300 | 250 | 2M to 18M | 250 | 500 to 4500 | 500 | 3M to 15M | HT | 7-1/8 | 6-1/2 | 7-1/4 | 5-3/8 | 6-1/8 | 33 | 52.00 |
| JT | | | | | | | | 41 | | | | | | 56.00 | |
| 5P363 | 500 | 300 | 2M to 18M | 300 | 500 to 4500 | 600 | 3M to 15M | HT | 10-3/4 | 6-1/2 | 7-1/4 | 5-3/8 | 6-1/8 | 51 | 105.00 |
| JT | | | | | | | | 64 | | | | | | 115.00 | |

S N C MANUFACTURING CO., INC., OSHKOSH, WISCONSIN



Skilful Engineering, latest production techniques and highest quality materials . . . backed by careful workmanship, exacting step-by-step inspection and rigorous final testing . . . are combined in every SNC transformer to provide a quality product that gives MORE in dollar value.

POWER TRANSFORMERS—THE "EIGHT" SERIES

All units conservatively rated for operation on either 50 or 60 cycles and contain an electrostatic shield between primary and all other windings

REPLACEMENT TYPES (6.3 Volt Heater Winding)

| Type Number | Primary Voltage | R.M.S.—High Volt. Secondary | Pri. D.C. Mils | Rectifier Filament | Heater Winding Center Tapped | Mtg. Style | Dimensions | | | | | Net Wt. | List Price |
|-------------|-----------------|-----------------------------|----------------|--------------------|------------------------------|------------|------------|-------|-------|-------|---|---------|------------|
| | | | | | | | A | B | C | D | E | | |
| 8P040 | 117 | 265-0-265 | 40 | 5V. @ 2A. | 6.3V. @ 2A. | FL | 3 | 2-1/2 | 2-3/4 | 2-1/2 | 2 | 2.3 | 4.50 |
| 8P055 | 117 | 300-0-300 | 55 | 5V. @ 2A. | 6.3V. @ 2.5A. | FL | 3 | 2-1/2 | 3-1/8 | 2-1/2 | 2 | 2.8 | 4.55 |
| 8P070 | 117 | 325-0-325 | 70 | 5V. @ 2A. | 6.3V. @ 3A. | FL | 3 | 2-1/2 | 3-1/2 | 2-1/2 | 2 | 3.2 | 5.75 |

HEAVY DUTY REPLACEMENT AND NEW EQUIPMENT TYPES (6.3 Volt Heater Winding)

| Type Number | Primary Voltage | R.M.S.—High Volt. Secondary | Pri. D.C. Mils | Rectifier Filament | Heater Winding Center Tapped | Mtg. Style | Dimensions | | | | | Net Wt. | List Price |
|-------------|-----------------|-----------------------------|----------------|--------------------|------------------------------|------------|------------|---------|---------|---------|---------|---------|------------|
| | | | | | | | A | B | C | D | E | | |
| 8P180 | 117 | 265-0-265 | 40 | 5V. @ 2A. | 6.3V. @ 2A. | FL | 3 | 2-1/2 | 3-1/4 | 2-1/2 | 2 | 3.2 | 6.15 |
| 8P180G | 117 | 265-0-265 | 40 | 5V. @ 2A. | 6.3V. @ 2A. | GL | 3-1/16 | 2-7/32 | 3-1/8 | 2-1/2 | 2-3/16 | 3.2 | 6.15 |
| 8P183 | 117 | 300-0-300 | 50 | 5V. @ 2A. | 6.3V. @ 2A. | FL | 3-3/8 | 2-13/16 | 3-7/16 | 2-13/16 | 2-1/4 | 3.5 | 6.50 |
| 8P183G | 117 | 300-0-300 | 50 | 5V. @ 2A. | 6.3V. @ 2A. | GL | 3-7/16 | 2-27/32 | 3-1/4 | 2-1/4 | 2-1/8 | 3.5 | 6.50 |
| 8P186 | 117 | 325-0-325 | 60 | 5V. @ 2A. | 6.3V. @ 3A. | FL | 3-3/8 | 2-13/16 | 3-11/16 | 2-13/16 | 2-1/4 | 4.0 | 6.85 |
| 8P186G | 117 | 325-0-325 | 60 | 5V. @ 2A. | 6.3V. @ 3A. | GL | 3-7/16 | 2-27/32 | 3-1/2 | 2-1/4 | 2-3/8 | 4.0 | 6.85 |
| 8P189 | 117 | 350-0-350 | 70 | 5V. @ 3A. | 6.3V. @ 3.5A. | FL | 3-3/4 | 3-1/8 | 3-3/4 | 3-1/8 | 2-1/2 | 5.0 | 7.50 |
| 8P189G | 117 | 350-0-350 | 70 | 5V. @ 3A. | 6.3V. @ 3.5A. | GL | 3-13/16 | 3-5/32 | 3-5/8 | 2-1/2 | 2-7/16 | 5.0 | 7.50 |
| 8P192 | 117 | 350-0-350 | 90 | 5V. @ 3A. | 6.3V. @ 4A. | FL | 3-3/4 | 3-1/8 | 4 | 3-1/8 | 2-1/2 | 5.7 | 8.25 |
| 8P192G | 117 | 350-0-350 | 90 | 5V. @ 3A. | 6.3V. @ 4A. | GL | 3-13/16 | 3-5/32 | 3-7/8 | 2-1/2 | 2-11/16 | 5.7 | 8.25 |
| 8P194 | 117 | 375-0-375 | 110 | 5V. @ 3A. | 6.3V. @ 4A. | FL | 3-3/4 | 3-1/8 | 4-1/8 | 3-1/8 | 2-1/2 | 6.0 | 9.25 |
| 8P194G | 117 | 375-0-375 | 110 | 5V. @ 3A. | 6.3V. @ 4A. | GL | 3-13/16 | 3-5/32 | 4 | 2-1/2 | 2-13/16 | 6.0 | 9.25 |
| 8P196 | 117 | 350-0-350 | 150 | 5V. @ 3A. | 6.3V. @ 4.8A. | FL | 4-1/8 | 3-7/16 | 4-3/8 | 3-7/16 | 2-3/4 | 7.7 | 9.75 |
| 8P196G | 117 | 350-0-350 | 150 | 5V. @ 3A. | 6.3V. @ 4.8A. | GL | 4-3/16 | 3-15/32 | 4-3/8 | 2-3/4 | 3-5/16 | 7.7 | 9.75 |
| 8P199 | 117 | 400-0-400 | 70 | 5V. @ 3A. | 6.3V. @ 3.5A. | FL | 3-3/4 | 3-1/8 | 4 | 3-1/8 | 2-1/2 | 5.8 | 8.75 |
| 8P199G | 117 | 400-0-400 | 70 | 5V. @ 3A. | 6.3V. @ 3.5A. | GL | 3-13/16 | 3-5/32 | 3-7/8 | 2-1/2 | 2-11/16 | 5.8 | 8.75 |
| 8P202 | 117 | 450-0-450 | 200 | 5V. @ 3A. | 6.3V. @ 5A. | FL | 4-1/2 | 3-3/4 | 4-3/4 | 3-3/4 | 3 | 10.7 | 12.50 |
| 8P202G | 117 | 450-0-450 | 200 | 5V. @ 3A. | 6.3V. @ 5A. | GL | 4-9/16 | 3-25/32 | 4-3/8 | 3 | 3-11/16 | 10.7 | 12.50 |
| 8P205 | 117 | 450-0-450 | 325 | 5V. @ 6A. | 6.3V. @ 8A. | HT | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 23.3 | 34.00 |
| 8P208 | 117 | 550-0-550 | 275 | 5V. @ 6A. | 6.3V. @ 6A. | HT | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 23.3 | 34.00 |

REPLACEMENT TYPES (2.5 Volt Heater Winding)

| | | | | | | | | | | | | | |
|-------|-----|-----------|-----|-----------|--------------|----|-------|--------|-------|--------|-------|-----|------|
| 8P287 | 117 | 350-0-350 | 70 | 5V. @ 3A. | 2.5V. @ 6A. | FL | 3-3/4 | 3-1/8 | 3-3/4 | 3-1/8 | 2-1/2 | 5.0 | 7.50 |
| 8P293 | 117 | 350-0-350 | 90 | 5V. @ 3A. | 2.5V. @ 8A. | FL | 3-3/4 | 3-1/8 | 4 | 3-1/8 | 2-1/2 | 5.6 | 8.15 |
| 8P295 | 117 | 350-0-350 | 150 | 5V. @ 3A. | 2.5V. @ 12A. | FL | 4-1/8 | 3-7/16 | 4-3/8 | 3-7/16 | 2-3/4 | 7.8 | 9.75 |

REPLACEMENT TYPES (Two 2.5 Volt Heater Windings)

| | | | | | | | | | | | | | |
|--------|-----|-----------|-----|-----------|---|----|---------|--------|-------|-------|---------|-----|------|
| 8P487 | 117 | 350-0-350 | 70 | 5V. @ 3A. | No. 1 = 2.5V. @ 3.5A. No. 2 = 2.5V. @ 8A. | FL | 3-3/4 | 3-1/8 | 4 | 3-1/8 | 2-1/2 | 5.8 | 9.00 |
| 8P487G | 117 | 350-0-350 | 70 | 5V. @ 3A. | No. 1 = 2.5V. @ 3.5A. No. 2 = 2.5V. @ 8A. | GL | 3-13/16 | 3-5/32 | 3-7/8 | 2-1/2 | 2-11/16 | 5.8 | 9.00 |
| 8P494 | 117 | 375-0-375 | 110 | 5V. @ 3A. | No. 1 = 2.5V. @ 3.5A. No. 2 = 2.5V. @ 10A. | FL | 3-3/4 | 3-1/8 | 4-1/4 | 3-1/8 | 2-1/2 | 6.2 | 9.85 |
| 8P494G | 117 | 375-0-375 | 110 | 5V. @ 3A. | No. 1 = 2.5V. @ 3.5A. No. 2 = 2.5V. @ 10A. | GL | 3-13/16 | 3-5/32 | 4-1/8 | 2-1/2 | 2-15/16 | 6.2 | 9.85 |

GENERAL PURPOSE TYPES WITH CONVENIENT LUG TERMINALS (6.3 Volt Heater Winding)

| Type Number | Primary Voltage | R.M.S.—High Volt. Secondary | Pri. D.C. Mils | Rectifier Filament | Heater Winding Center Tapped | Mtg. Style | Dimensions | | | | | Net Wt. | List Price |
|-------------|-----------------|-----------------------------|----------------|--------------------|------------------------------|------------|------------|---------|---------|---------|-------|---------|------------|
| | | | | | | | A | B | C | D | E | | |
| 8P382 | 117 | 300-0-300 | 50 | 5V. @ 2A. | 6.3V. @ 2A. | ET | 3-3/8 | 2-13/16 | 3-7/16 | 2-13/16 | 2-1/4 | 3.2 | 5.90 |
| 8P385 | 117 | 325-0-325 | 60 | 5V. @ 2A. | 6.3V. @ 3A. | ET | 3-3/8 | 2-13/16 | 3-11/16 | 2-13/16 | 2-1/4 | 4.0 | 6.35 |
| 8P388 | 117 | 350-0-350 | 70 | 5V. @ 3A. | 6.3V. @ 3.5A. | ET | 3-3/4 | 3-1/8 | 3-3/4 | 3-1/8 | 2-1/2 | 4.7 | 6.90 |

BIAS TYPES

| | | | | | | | | | | | | | |
|-------|-----|------------------|----|-----------|--|----|--------|--------|-------|---------|---------|-----|------|
| 8P510 | 117 | 40-0-40 | 25 | 5V. @ 2A. | | CL | 1-7/8 | 2-1/4 | 1-3/4 | 2-13/16 | | 1.0 | 3.75 |
| 8P511 | 117 | 0-90-150-200-250 | 50 | 5V. @ 2A. | | GL | 3-1/16 | 2-7/32 | 2-5/8 | 2 | 1-11/16 | 2.0 | 5.45 |

VIBRATOR TYPES

| | | | | | | | | | | | | | |
|-------|---|-----------|----|--|--|----|--------|---------|--------|-------|--------|-----|------|
| 8P610 | 6 | 225-0-225 | 40 | | | AL | 2-3/16 | 2-5/8 | 2 | 3-1/8 | | 1.3 | 4.25 |
| 8P611 | 6 | 320-0-320 | 40 | | | GL | 3-1/16 | 2-7/32 | 2-1/2 | 2 | 1-9/16 | 2.1 | 5.10 |
| 8P612 | 6 | 390-0-390 | 60 | | | GL | 3-7/16 | 2-27/32 | 3-5/16 | 2-1/4 | 2-3/16 | 3.7 | 5.75 |

See opposite page for Dimensional Illustrations



NOTE
 Basic mounting types are classified as "A," "B," "C," "D," "E," "F," "G," "H," "J," and "X."
 Explanation of Suffix Symbols
 L = Leads
 T = Lugs
 P = Cord and Plug
 SP = Switch, Cord and Plug

PLATE TRANSFORMERS—THE "SEVEN" SERIES

All SNC plate transformers have dual secondary ratings. Most units available in either air cooled or compound filled cases. All units contain electrostatic shields between primary and high voltage windings.

| Type Number | Primary Voltage | Pri. V.A. | Secondary R.M.S. Voltage | D.C. Voltage From Filter* | D.C. Current | Mtg. Style | Dimensions | | | | | Net Wt. | List Price |
|-------------|-----------------|-----------|-------------------------------|---------------------------|--------------|------------|------------|-------|---------|-------|---------|---------|------------|
| | | | | | | | A | B | C | D | E | | |
| 7P530 | 115-230 | 220 | 920-0-920 or 740-0-740 | 750 or 600 | 200MA | GL | 4-3/4 | 3-3/4 | 5-1/8 | 3 | 4-1/16 | 12 | 15.00 |
| 7P535 | 115-230 | 320 | 930-0-930 or 750-0-750 | 750 or 600 | 300MA | HT JT | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 22 | 35.00 |
| 7P536 | | | | | | | | | | | | 30 | 40.00 |
| 7P542 | 115-230 | 530 | 1470-0-1470 or 1220-0-1220 | 1250 or 1000 | 300MA | HT JT | 7-1/8 | 6-1/2 | 7-1/4 | 5-3/8 | 6-1/8 | 33 | 42.00 |
| 7P543 | | | | | | | | | | | | 41 | 46.00 |
| 7P551 | 115-230 | 750 | 2050-0-2050 or 1740-0-1740 | 1750 or 1500 | 300MA | HT JT | 7-1/8 | 6-1/2 | 7-1/4 | 5-3/8 | 6-1/8 | 43 | 45.00 |
| 7P552 | | | | | | | | | | | | 51 | 55.00 |
| 7P557 | 115-230 | 1060 | 2880-0-2880 or 2350-0-2350 | 2500 or 2000 | 300MA | HT JT | 10-3/4 | 6-1/2 | 7-1/4 | 5-3/8 | 6-1/8 | 53 | 62.00 |
| 7P558 | | | | | | | | | | | | 69 | 67.00 |
| 7P563 | 115-230 | 1760 | 2900-0-2900 or 2370-0-2370 | 2500 or 2000 | 500MA | HT JT | 10-3/4 | 9 | 7-1/4 | 7 | 5-13/16 | 96 | 90.00 |
| 7P564 | | | | | | | | | | | | 126 | 125.00 |

*All units may be operated with simultaneous loads—provided the total D.C. current of the two loads does not exceed the rating listed.

FILAMENT TRANSFORMERS—THE "FOUR" SERIES

Most SNC Filament Transformers are constructed to provide two identical center tapped secondary windings and offer a minimum of three applications. They provide three-fold the number of possible applications of ordinary filament types. A few are single secondary units and are so designated. All have 117 V. 50/60 cycle primary.

| Type Number | Applications | | | Test Voltage | Mtg. Style | Dimensions | | | | | Net Wt. | List Price |
|-------------|----------------------|---------------------|-----------------------------------|--------------|------------|------------|---------|-------|---------|-------|---------|------------|
| | Parallel Secondaries | Series Secondaries | Independent Identical Secondaries | | | A | B | C | D | E | | |
| 4P222 | 2.5V. C.T. @ 5 A. | 5 V. C.T. @ 2.5 A. | Two of 2.5V. C.T. @ 2.5 A. | 2000 | BL | 2-1/4 | 1-7/8 | 1-3/4 | 2-3/8 | | 1.0 | 2.95 |
| 4P226* | 2.5V. C.T. @ 10 A.* | | | 7500 | BL | 3 | 2-1/2 | 2-3/8 | 3-1/8 | | 2.0 | 4.60 |
| 4P227 | 2.5V. C.T. @ 10 A. | 5 V. C.T. @ 5 A. | Two of 2.5V. C.T. @ 5 A. | 2000 | BL | 2-5/8 | 2-3/16 | 2 | 2-13/16 | | 1.5 | 4.00 |
| 4P234 | 2.5V. C.T. @ 15 A. | 5 V. C.T. @ 7.5 A. | Two of 2.5V. C.T. @ 7.5 A. | 2000 | BL | 3 | 2-1/2 | 2-1/4 | 3-1/8 | | 2.2 | 4.75 |
| 4P239 | 5 V. C.T. @ 6.5A. | 10 V. C.T. @ 3.25A. | Two of 5 V. C.T. @ 3.25A. | 2000 | BL | 3 | 2-1/2 | 2-1/4 | 3-1/8 | | 2.2 | 4.25 |
| 4P242* | 5 V. C.T. @ 20 A.* | | | 10000 | BxL | 4-1/8 | 3-7/16 | 2-3/4 | 2-3/4 | 2-1/8 | 4.6 | 8.50 |
| 4P243 | 5 V. C.T. @ 20 A. | 10 V. C.T. @ 10 A. | Two of 5 V. C.T. @ 10 A. | 2000 | BxL | 3-3/4 | 3-1/8 | 2-3/4 | 2-1/2 | 2-1/4 | 4.3 | 7.50 |
| 4P244* | 6.3V. C.T. @ 0.6A.* | | | 2000 | BL | 1-7/8 | 1-9/16 | 1-1/2 | 2 | | .6 | 1.50 |
| 4P245* | 6.3V. C.T. @ 1.2A.* | | | 2000 | BL | 1-7/8 | 1-9/16 | 1-5/8 | 2 | | .7 | 3.15 |
| 4P246 | 6.3V. C.T. @ 2 A. | 12.6V. C.T. @ 1 A. | Two of 6.3V. C.T. @ 1 A. | 2000 | BL | 2-1/4 | 1-7/8 | 1-3/4 | 2-3/8 | | 1.0 | 3.50 |
| 4P251 | 6.3V. C.T. @ 6 A. | 12.6V. C.T. @ 3 A. | Two of 6.3V. C.T. @ 3 A. | 2000 | BL | 3 | 2-1/2 | 2-1/4 | 3-1/8 | | 2.0 | 4.05 |
| 4P256 | 6.3V. C.T. @ 10 A. | 12.6V. C.T. @ 5 A. | Two of 6.3V. C.T. @ 5 A. | 2000 | BxL | 3-3/8 | 2-13/16 | 2-1/2 | 2-1/4 | 2-1/8 | 2.9 | 5.25 |
| 4P260 | 7.5V. C.T. @ 3 A. | 15 V. C.T. @ 1.5 A. | Two of 7.5V. C.T. @ 1.5 A. | 2000 | BL | 2-5/8 | 2-3/16 | 2 | 2-13/16 | | 1.5 | 4.25 |
| 4P267 | 7.5V. C.T. @ 4.5A. | 15 V. C.T. @ 2.3 A. | Two of 7.5V. C.T. @ 2.3 A. | 2000 | BL | 3 | 2-1/2 | 2-1/4 | 3-1/8 | | 2.0 | 5.25 |
| 4P272 | 11 V. C.T. @ 10 A. | 22 V. C.T. @ 5 A. | Two of 11 V. C.T. @ 5 A. | 2000 | BxL | 3-3/4 | 3-1/8 | 2-3/4 | 2-1/2 | 2-1/4 | 4.1 | 7.50 |

*Single secondary units

VOLTAGE CHANGER AND ISOLATION—THE "NINE" SERIES

All Units Have Primary Cord and Secondary Plug and Are For 50/60 Cycle Operation

VOLTAGE CHANGER (ISOLATION)

| Type Number | Primary Voltage | Secondary Voltage | Capacity in V. A. | Mtg. Style | Dimensions | | | | Net Wt. | List Price | |
|-------------|-----------------|-------------------|-------------------|------------|------------|---------|---------|-------|---------|------------|-------|
| | | | | | A | B | C | D | | | E |
| 9P707 | 220-250 | 110-125 | 75 | GP | 3-13/16 | 3-5/32 | 3-1/8 | 2-1/2 | 1-15/16 | 3.9 | 7.75 |
| 9P713 | 220-250 | 110-125 | 150 | GP | 4-9/16 | 3-25/32 | 3-7/8 | 3 | 2-13/16 | 8.0 | 11.50 |
| 9P718 | 220-250 | 110-125 | 350 | HP | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 23.3 | 30.00 |

ISOLATION TYPES

| | | | | | | | | | | | |
|-------|---------|---------|-----|----|--------|---------|---------|-------|---------|------|-------|
| 9P721 | 110-250 | 110-250 | 150 | GP | 4-9/16 | 3-25/32 | 4-5/8 | 3 | 3-9/16 | 12.1 | 15.00 |
| 9P725 | 110-250 | 110-250 | 250 | HP | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 23.3 | 24.50 |
| 9P728 | 110-250 | 110-250 | 500 | HP | 7-1/8 | 6-1/2 | 7-1/4 | 5-3/8 | 6-1/8 | 34.8 | 34.50 |

VOLTAGE ADJUSTMENT TYPES WITH TAP CHANGE SWITCH

| | | | | | | | | | | | |
|-------|---------------------|-----|-----|-----|-------|-------|---------|-------|---------|------|-------|
| 9P732 | 95-130 in 5V. Steps | 115 | 150 | HSP | 4-7/8 | 3-7/8 | 3-7/8 | 3-1/8 | 3-1/8 | 4.7 | 21.00 |
| 9P737 | 95-130 in 5V. Steps | 115 | 250 | HSP | 5-3/8 | 4-3/8 | 4-1/4 | 3-5/8 | 3-1/2 | 8.0 | 27.50 |
| 9P739 | 80-130 in 5V. Steps | 115 | 500 | HSP | 7-1/8 | 5-1/2 | 5-15/16 | 4-3/8 | 4-13/16 | 23.3 | 41.00 |

All list prices given are subject to regular trade discounts and may be changed without notice.

S N C MANUFACTURING CO., INC., OSHKOSH, WISCONSIN

See Page 2 for Dimensional Illustrations

THORDARSON TRANSFORMERS

NEW STREAMLINED SERIES

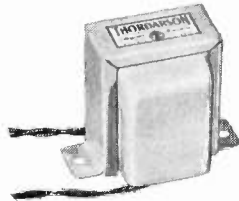
This is the new Thordarson post-war series of Transformers and Chokes. Every unit has been designed for utmost efficiency and adaptability. Many of the engineering and production advancements developed by Thordarson during the war, are used in producing this line.

The new lamination alloys and insulating material, incorporated in this series, results in superior performance and a greater factor of safety without an increase in size or weight. Consequently, some types are smaller and more compact

without sacrificing efficiency or performance.

Finished in baked grey enamel and fitted with matched mounting styles, the units present a uniform appearance. This is especially desirable where several Transformers and Chokes are mounted on the same chassis.

Types for Radio Receiver Replacement, Amateur Radio, Sound Systems and allied applications, can be selected from this listing.



FGV



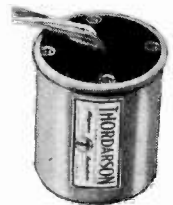
BAH



Z



RTV



RAV

AUDIO INPUT TRANSFORMERS

| Type No. | List Price | Mtg. | Application | Ohms Impedance | | Turns Ratio | Mtg. Centers | Dimensions | | | Wt. Lbs. |
|----------|------------|------|--|------------------------------|---|-------------|---|--------------------------------------|-------------------------------|---------------------------------|-------------------------------|
| | | | | Primary | Secondary | | | W. | D. | H. | |
| T-20A00 | \$2.90 | BAH | Line or mic to single or push-pull grids* | 600 Ct. 200 Ct. 50 | 60,000 Ct. 20,000 Ct. 20,000 Ct. | 1:10 | 2 | 2 ³ / ₈ | 1 ¹ / ₄ | 1 ¹¹ / ₁₆ | 1 ¹ / ₂ |
| T-20A01 | 4.60 | FGV | Line or mic to single grid† | 600 Ct. 200 Ct. 50 | 240,000 80,000 80,000 | 1:20 | 2 ³ / ₈ | 2 ⁷ / ₈ | 1 ⁷ / ₈ | 2 ⁵ / ₁₆ | 1 ¹ / ₄ |
| T-20A02 | 4.50 | FGV | Line or mic to push-pull grids§ | 600 Ct. 200 Ct. 50 | 240,000 Ct. 80,000 Ct. 80,000 Ct. | 1:20 | 2 ³ / ₈ | 2 ⁷ / ₈ | 1 ⁷ / ₈ | 2 ⁵ / ₁₆ | 1 ¹ / ₄ |
| T-20A03 | 4.30 | BAH | Single plate and mic or line to grid* | 5,000 to 10,000 200 | 100,000 250,000 | 1:3.25 | 2 ³ / ₈ | 2 ¹ / ₁₆ | 1 ⁵ / ₈ | 1 ⁵ / ₈ | 3 ⁴ / ₈ |
| T-20A04 | 2.90 | BAH | Voice coil or mic to grid* | 3 to 6 50 | 38,400 320,000 | 1:80 | 2 | 2 ³ / ₈ | 1 ¹ / ₄ | 1 ¹¹ / ₁₆ | 1 ¹ / ₂ |
| T-20A05 | 10.60 | RTV | Line or mic to single or push-pull grids§ (Hum-bucking coil and core—fully potted) | 600 Ct. 200 Ct. 50 | 60,000 Ct. 20,000 Ct. 20,000 Ct. | 1:10 | 1 ⁵ / ₈ x 1 ⁵ / ₈ | 1 ¹ / ₁₆ Diam. | 2 | | 1 ¹ / ₂ |
| T-20A06 | 10.60 | RTV | Line to Line (Hum-bucking coil and core—fully potted) | 600 Ct. 200 Ct. 50 Ct. | 600 Ct. 200 Ct. 50 Ct. | 1:1 | 1 ⁵ / ₈ x 1 ⁵ / ₈ | 1 ¹ / ₁₆ Diam. | 2 | | 1 ¹ / ₂ |
| T-20A40 | 25.00 | Z | Microphone cable input transformer† | 30 to 60 | 50,000 | 1:31.6 | | 1 Diam. | | 2 ¹ / ₁₆ | 3 ⁴ / ₈ |
| T-20A41 | 25.00 | Z | Microphone cable input transformer† | 200 to 250 | 50,000 | 1:14.2 | | 1 Diam. | | 2 ¹ / ₁₆ | 3 ⁴ / ₈ |

† Can be used in reverse—i.e., High impedance source to line. * Frequency response—250 to 10,000 c.p.s. § Frequency response—60 to 10,000 c.p.s.
 ‡ Used for converting high impedance input of amplifier to accommodate low impedance microphones—Frequency response within 1/2 Db 30 to 5,000 c.p.s.—High permeability shield for reduction of hum—Fitted with 2-prong connector for balanced mic cable and single contact connector for fitting to amplifier input.

AUDIO INTERSTAGE TRANSFORMERS

| Type No. | List Price | Mtg. | Application | Ohms Impedance | | Turns Ratio | Pri. M.A. | Mtg. Centers | Dimensions | | | Wt. Lbs. |
|----------|------------|------|--|-----------------|------------------|-------------|-----------|---|--------------------------------------|--------------------------------|---------------------------------|-------------------------------|
| | | | | Primary | Secondary | | | | W. | D. | H. | |
| T-20A16 | \$2.50 | BAH | Single plate to single or push-pull grids | 10,000 | 40,000 Ct. | 1:2 | 8 | 2 | 2 ³ / ₈ | 1 ¹ / ₄ | 1 ¹¹ / ₁₆ | 1 ¹ / ₂ |
| T-20A17 | 4.25 | RAV | Single plate to single or push-pull grids | 10,000 | 40,000 Ct. | 1:2 | 8 | 1 ¹ / ₈ | 1 ¹ / ₁₆ Diam. | 2 | 1 ¹ / ₂ | |
| T-20A19 | 3.40 | BAH | Single or push-pull plates to single or push-pull grids | Universal | Universal | 1:3 | 8 | 2 ³ / ₈ | 2 ¹ / ₁₆ | 1 ⁵ / ₈ | 1 ⁵ / ₈ | 3 ⁴ / ₈ |
| T-20A22 | 4.25 | BAH | Single plate to single or push-pull grids | 10,000 | 90,000 Ct. | 1:3 | 8 | 2 ⁷ / ₈ | 3 ¹ / ₄ | 2 ¹ / ₈ | 1 ¹¹ / ₁₆ | 1 ¹ / ₄ |
| T-20A23 | 4.90 | FGV | Single plate to single or push-pull grids | 10,000 | 90,000 Ct. | 1:3 | 8 | 2 ³ / ₈ | 2 ⁷ / ₈ | 2 ¹ / ₁₆ | 2 ⁵ / ₁₆ | 1 ¹ / ₂ |
| T-20A24 | 5.00 | FGV | Push-pull plates to push-pull grids | 20,000 Ct. | 180,000 Ct. | 1:3 | 8 Bal. | 2 ³ / ₈ | 2 ⁷ / ₈ | 2 ¹ / ₁₆ | 2 ⁵ / ₁₆ | 1 ¹ / ₂ |
| T-20A25 | 10.60 | RTV | Single or push-pull plates to single or push-pull grids (Hum-bucking coil and core—fully potted) | Universal | Universal | 1:1.41 | 8 Bal. | 1 ⁵ / ₈ x 1 ⁵ / ₈ | 1 ¹ / ₁₆ Diam. | 2 | 1 ¹ / ₂ | |
| T-20A27 | 10.60 | RTV | Single plate to single or push-pull grids | 10,000 2,500 | 40,000 20,000 | 1:2 | | | 2 ⁷ / ₈ Diam. | 3 ¹ / ₁₆ | 2 ³ / ₈ | |

TUBE TO LINE TRANSFORMERS (Low Level)

| | | | | | | | | | | | | |
|---------|--------|-----|---|------------|-----------------------|---|--|---|--------------------------------------|-------------------------------|-------------------------------|-------------------------------|
| T-22S90 | \$4.50 | FGV | Single or push-pull plates to line | 20,000 Ct. | 500 Ct. or 125 to 200 | 8 | | 2 ³ / ₈ | 2 ¹ / ₁₆ | 1 ⁷ / ₈ | 2 ³ / ₈ | 1 ¹ / ₄ |
| T-22S92 | 9.90 | RTV | Single or push-pull plates to line (Hum-bucking coil and core—fully potted) | 20,000 Ct. | 500 Ct. or 125 to 200 | 8 | | 1 ⁵ / ₈ x 1 ⁵ / ₈ | 1 ¹ / ₁₆ Diam. | 2 | | 1 ¹ / ₂ |

DRIVER TRANSFORMERS

| Type No. | List Price | Mtg. | Application | Turns Ratio | | Pri. M.A. | Mtg. Centers | Dimensions | | | Wt. Lbs. | |
|----------|------------|------|--|--|------|-----------|--|---|--------------------------------|--------------------------------|-------------------------------|-------------------------------|
| | | | | Pri.—1/2 | Sec. | | | W. | D. | H. | | |
| T-20D75 | \$2.75 | BAH | Single plate to push-pull Class B grids. Primary 10,000 ohms—1H4-G or 30 to 19, etc. | 2.4:1 | | 5 | 2 | 2 ³ / ₈ | 1 ¹ / ₄ | 1 ³ / ₈ | 1 ¹ / ₂ | |
| T-20D76 | 2.90 | BAH | Single plate to push-pull Class B grids. Primary single 6N7 to Class B 6N7, etc. | 5.2:1 | | 15 | 2 | 2 ³ / ₈ | 1 ¹ / ₄ | 1 ³ / ₈ | 1 ¹ / ₂ | |
| T-20D77 | 4.30 | FGV | Primary single 6F6 to PP 6F6, etc. | 2.5:1 | | 30 | 2 ³ / ₈ | 2 ⁷ / ₈ | 2 ¹ / ₁₆ | 2 ⁵ / ₁₆ | 1 ¹ / ₄ | |
| T-20D78 | 5.75 | GGV | Push-pull plates to push-pull grids. Primary 6F6 triode to PP 6L6, etc. | 4:1 | | 40 | 2 x 1 ¹¹ / ₁₆ | 2 ⁷ / ₈ | 2 ¹ / ₁₆ | 3 ³ / ₈ | 2 ¹ / ₂ | |
| T-20D79 | 4.90 | FGV | Parallel or P-P parallel 6N7 to P-P parallel 6N7, etc. | 5.2:1 | | 30 | 2 ³ / ₈ | 2 ⁷ / ₈ | 2 ¹ / ₁₆ | 2 ⁵ / ₁₆ | 1 ¹ / ₄ | |
| T-20D80 | 6.80 | GGV | Push-pull 2A3 or 6A3 to 805-838, etc. | 3.2:1 | | 100 | 2 x 1 ¹¹ / ₁₆ | 2 ⁷ / ₈ | 2 ¹ / ₁₆ | 3 ³ / ₈ | 2 ¹ / ₂ | |
| T-20D81 | 8.65 | GGV | Push-pull 845 to push-pull 805-833, etc. | 5:1 | | 100 | 2 ¹ / ₂ x 2 ⁵ / ₁₆ | 3 ³ / ₈ | 3 ⁷ / ₁₆ | 3 ⁷ / ₈ | 4 ¹ / ₂ | |
| T-20D82 | 7.50 | GGV | Push-pull plates to push-pull grids. Push-pull 2A3-6F6, etc. to 805, etc. | 5:1 | | 100 | 2 x 1 ¹¹ / ₁₆ | 2 ⁷ / ₈ | 2 ¹ / ₁₆ | 3 ³ / ₈ | 2 ¹ / ₂ | |
| T-20D83 | 26.45 | PUV | 20 Watt 500 Ohm line to class B grids. | 4:1, 3.2:1 | | | | | | | | |
| CHT | | | | 1:1.75, 1:1.83, 1:1.25, 1:1.4, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3 | | | | 1 ¹ / ₄ x 4 ³ / ₈ | 3 ¹ / ₈ | 4 ³ / ₈ | 4 | 8 |
| T-20D84 | 14.50 | GGV* | 20 Watt 500 Ohm line to class B grids. | 1:1.75, 1:1.85, 1:1.25, 1:1.4, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3 | | | | 2 ¹ / ₄ x 2 | 3 | 3 ¹ / ₂ | 3 ³ / ₈ | 3 ¹ / ₂ |

*Terminal Board with Solder Lugs on Both Shields 20 Watts Capacity.



TRANSFORMER SPECIALISTS SINCE 1895 THORDARSON

THORDARSON TRANSFORMERS

GGV



PUV



BHH



KTV



OUTPUT TRANSFORMERS

| Type No. | List Price | Mtg. | Application | Primary Imp. Ohms | Max. Prim. Per Side | D.C. M.A. U. bal. | Secondary Imp. Ohms | Power Watts | Mtg. Centers | Dimensions | | | Wt. Lbs. |
|----------|------------|------|--|--|---------------------|-------------------|----------------------------|-------------|---------------|------------|-------|-------|----------|
| | | | | | | | | | | W | D | H | |
| T-22S45 | \$2.05 | BAH | Single plate to voice coil.... | 1500 to 3000..... | .. | 55 | 3 2 | 3 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| T-22S46 | 2.30 | BAH | Single plate to voice coil.... | 3000 to 6000..... | .. | 35 | 3 2 | 3 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| T-22S47 | 2.75 | BAH | Single or push-pull plates to voice coil | 6000 to 12000 (t....) | .. | 35 | 3 2 | 3 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| T-22S48 | 2.80 | BAH | Single or push-pull plates to voice coil | 12000 to 25000 Ct.... | 10 | 8 | 3 2 | 3 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| T-22S56 | 4.15 | BAH | Single or push-pull plates to voice coil | 8000/10000 Ct.... | 50 | 35 | 3 2 to 4/6 to 8 | 8 | 2 1/2 | 3 1/4 | 1 3/4 | 2 | 1 1/4 |
| T-22S58 | 4.15 | BAH | Single or push-pull plates to voice coil | 5000/7000 Ct.... | 50 | 45 | 3 2 to 4/6 to 8 | 8 | 2 1/2 | 3 1/4 | 1 3/4 | 2 | 1 1/4 |
| T-22S60 | 4.30 | BAH | Single or push-pull plates to voice coil | 2500/4000 Ct.... | 60 | 60 | 3 2 to 4/6 to 8 | 8 | 2 1/2 | 3 1/4 | 1 3/4 | 2 | 1 1/4 |
| T-22S64 | 7.20 | GGV | Single or push-pull plates to voice coil | 10000 Ct.... | 50 | 30 | 3 2 to 4/6 to 8/15/250/500 | 25 | 2 x 1 1/2 | 2 1/2 | 2 1/2 | 3 3/4 | 2 1/2 |
| T-22S66 | 7.20 | GGV | Single or push-pull plates to voice coil | 8000 Ct.... | 50 | 30 | 3 2 to 4/6 to 8/15/250/500 | 25 | 2 x 1 1/2 | 2 1/2 | 2 1/2 | 3 3/4 | 2 1/2 |
| T-22S68 | 6.75 | GGV | Single or push-pull plates to voice coil | 6500 Ct.... | 70 | 40 | 3 2 to 4/6 to 8/15/250/500 | 25 | 2 x 1 1/2 | 2 1/2 | 2 1/2 | 3 3/4 | 2 1/2 |
| T-22S70 | 7.70 | GGV | Single or push-pull plates to voice coil | 5000 Ct.... | 80 | 45 | 3 2 to 4/6 to 8/15/250/500 | 25 | 2 x 1 1/2 | 2 1/2 | 2 1/2 | 3 3/4 | 2 1/2 |
| T-22S72 | 7.70 | GGV | Single or push-pull plates to voice coil | 3000 Ct.... | 90 | 50 | 3 2 to 4/6 to 8/15/250/500 | 25 | 2 x 1 1/2 | 2 1/2 | 2 1/2 | 3 3/4 | 2 1/2 |
| T-22S78 | 10.95 | GGV | Single or push-pull plates to voice coil | 3300 Ct.... | 180 | 150 | 3 2 to 4/6 to 8/15/250/500 | 60 | 2 1/2 x 2 3/8 | 3 3/4 | 3 3/8 | 3 1/4 | 5 1/4 |
| T-22S74 | 6.35 | BHH | Universal single or push-pull tubes to voice coil | 14000/10000/8000/6600/5000/3000/2500 Ct. | 80 | 60 | 1 to 30 | 25 | 3 3/8 | 4 | 2 1/2 | 2 3/8 | 2 1/2 |
| T-22S76 | 6.60 | BHH | Universal single or push-pull tubes to line | 14000/12000/10000/8000/5000/3000 Ct. | 80 | 60 | 500 | 25 | 3 3/8 | 4 | 2 1/2 | 2 3/8 | 2 1/2 |
| T-22S80 | 4.40 | BHH | Single line to voice coil..... | 500 to 600 | .. | .. | 3 2 to 4/6 to 8/15 | 8 | 3 1/8 | 3 1/2 | 2 | 2 1/4 | 1 1/2 |
| T-22S82 | 7.15 | BHH | Multiple lines to voice coil... | 2000/1500/1000/500 | .. | .. | 3 2 to 4/6 to 8/15 | 25 | 3 3/8 | 4 | 2 3/8 | 2 3/8 | 2 1/4 |
| T-22S83 | 4.90 | BAH | Multiple lines to voice coil... | 2000/1500/1000/500 | .. | .. | 3 2 to 4/6 to 8/15 | 15 | 3 1/4 | 3 1/2 | 2 | 2 1/4 | 1 1/2 |
| T-22S84 | 4.50 | BAH | Multiple lines to voice coil... | 2000/1500/1000/500 | .. | .. | 3 2 to 4/6 to 8/15 | 5 | 2 3/8 | 3 1/4 | 1 3/4 | 2 | 1 |
| T-22S85 | 4.10 | BAH | Multiple lines to voice coil... | 2000/1500/1000/500 | .. | .. | 3 2 to 4/6 to 8/15 | 3 | 2 3/8 | 2 7/8 | 1 1/2 | 1 3/8 | 3/4 |
| T-22S62 | 4.25 | BHH | Universal single plate to voice coil | 4000/3000/2500/2000/1500 | .. | 50 | .1 to 29 | 8 | 2 3/8 | 3 1/4 | 2 | 2 | 1 1/4 |
| T-22S88 | 3.75 | BAH | Universal single or push-pull plates to voice coil | 14000 Ct./8000 Ct./3500/2000 | 50 | 10 | 3 2 to 4/6 to 8/15 | 8 | 2 3/8 | 3 1/4 | 1 3/4 | 2 | 1 |
| T-22S87 | 3.45 | BAH | Universal single or push-pull plates to voice coil | 14000 Ct./8000 Ct./3500/2000 | 50 | 10 | 3 2 to 4/6 to 8 | 6 | 2 3/8 | 2 7/8 | 1 1/2 | 1 3/8 | 3/4 |
| T-22S86 | 3.15 | BAH | Universal single or push-pull plates to voice coil | 14000 Ct./8000 Ct./3500/2000 | 50 | 10 | 3 2 to 4/6 to 8 | 3 | 2 | 2 3/8 | 1 3/4 | 1 3/8 | 1/2 |

"24" REPLACEMENT LINE SERVICE OUTPUT TRANSFORMERS

| Type No. | List Price | Mtg. Fig. | Typical Tube Applications | Class | Pri. Imp. | Pri. Ma. | Secondary Imp. Ohms | Max. Watts | Mtg. Centers | Dimensions | | | Wt. Lbs. |
|----------|------------|-----------|---|-------|----------------|----------|---------------------|------------|--------------|------------|-------|-------|----------|
| | | | | | | | | | | W | D | H | |
| TS-24S50 | \$1.35 | BAH | 2A3, 6A3, 6B4, 6W6, 7A5, 23AC5, 25B5, 25N6, 25L6, 35A5, 35L6, 35B5, 50A5, 50L6, 70L7, 48, etc. | A | 2000 | 55 | 3-4 | 5 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| TS-24S51 | 1.38 | BAH | 31, 43, 45, 50, 59, 71A, 1S4, 2B6, 6A5G, 6V6, 7C5, 12A5, 25A5, 25A6, 25A7, 35L6, etc. | A | 5000 | 40 | 3-4 | 5 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| TS-24S52 | 1.30 | BAH | 20, 31, 33, 41, 42, 46, 47, 59, 89, 1C5, 1G5, 1Q5, 1S4, 2A5, 3Q5, 6A4, 6AC5, 6B5, 6F6, 6K6, 6N6, 6V6, 7B5, etc. | A | 7000 | 30 | 3-4 | 5 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| TS-24S54 | 1.48 | BAH | 38, 85, 1D8, 1E7, 1F4, 1F5, 1J5, 1T5, 6F6, 6V7, 6Y7, etc. | A | 15000 to 25000 | 10 | 3-4 | 5 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |

UNIVERSAL SERVICE REPLACEMENT

| | | | | | | | | | | | | | |
|----------|--------|-----|---------------------------------|---|----------------------------|----|---------------|---|-------|-------|-------|-------|-----|
| TS-24S60 | \$2.40 | BHH | Single or push-pull plates..... | A | 4M, 7M, 8M, 10M, 14M, C.T. | 35 | .1 to 29 ohms | 4 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1/2 |
| TS-24S61 | 2.70 | BHH | Single or push-pull plates..... | A | 4M, 7M, 8M, 10M, 14M, C.T. | 40 | .1 to 29 ohms | 8 | 2 3/8 | 2 7/8 | 1 1/2 | 1 3/8 | 1 |

MODULATION TRANSFORMERS

| Type No. | List Price | Mtg. | Capacity Watts | Primary Imp. Ohms | Secondary Imp. Ohms | Secondary Volts | M.A. Parallel | Primary Application | Mtg. Centers | Dimensions | | | Wt. Lbs. |
|----------|------------|------|----------------|-------------------|---------------------|-----------------|---------------|---------------------|---------------|------------|-------|-------|----------|
| | | | | | | | | | | W. | D. | H. | |
| T-21M50 | \$3.40 | BAH | 3 | 10,000 Ct. | 4500 | 135 | 30 | 19, etc. | 2 | 2 3/8 | 1 3/8 | 1 3/8 | 1/2 |
| T-21M52 | 4.90 | FGV | 10 | 10,000 Ct. | 4500/3750/3000 | 350 | 80 | 6N7, etc. | 2 3/8 | 2 7/8 | 2 1/8 | 2 1/8 | 1 1/4 |
| T-21M54 | 6.60 | GGV | 25 | 6,600 Ct. | 4000 | 400 | 100 | 1P 6L6, etc. | 2 x 1 1/2 | 2 3/8 | 2 1/8 | 3 3/8 | 2 3/4 |
| T-21M56 | 10.95 | GGV | 75 | 10,000 Ct. | 6600/3750 | 1250 | 200 | TZ-20-809 etc. | 2 1/2 x 2 1/2 | 3 1/8 | 4 1/8 | 3 3/8 | 6 3/4 |
| T-21M58 | 25.90 | KTV | 100 | 15,000 Ct. | 6250 | 1250 | 200 | 811-812, etc. | 3 1/2 x 4 1/2 | 4 1/8 | 5 1/8 | 5 3/8 | 13 |

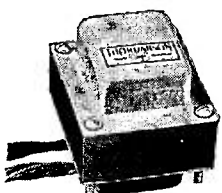
It is essential that the class C R.F. load be properly matched to the class B modulator tubes for a maximum transfer of speech energy with low distortion. Thordarson Multi-Match modulation transformers have sufficient flexibility to enable the engineer or amateur to adjust the impedance ratio of primary to secondary, to meet any practical condition of operation. This feature forestalls the possibility of the modu-

lation transformer becoming obsolete due to changing the modulator or class C tubes. The use of new tubes or a change in class C voltage and current will not necessitate the need of a new modulation transformer, providing the power capacity is adequate. Complete charts and instructions for proper matching are supplied with each unit.

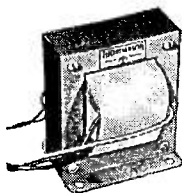
UNIVERSAL MULTI-MATCH MODULATION TRANSFORMERS

| Type No. | List Price | Mtg. | Capacity Watts | Primary M.A. each side | Secondary Series | M.A. Parallel | Mtg. Centers | W. | Dimensions | | Wt. Lbs. |
|----------|------------|------|----------------|--|------------------|---------------|---------------|-------|------------|-------|----------|
| | | | | | | | | | D. | H. | |
| T-21M60 | \$17.85 | KTV | 15 | 50 | 50 | 100 | 2 1/8 x 2 1/2 | 2 1/8 | 3 1/8 | 4 | 3 3/4 |
| T-21M61 | 24.00 | PUV | 60 | 125 | 125 | 250 | 1 3/4 x 4 3/8 | 3 3/8 | 5 1/4 | 4 | 8 3/4 |
| T-21M62 | 36.00 | PUV | 125 | 210 | 160 | 320 | 2 1/8 x 6 3/8 | 4 1/8 | 6 5/8 | 5 1/8 | 16 3/4 |
| T-21M64 | 57.50 | PUV | 300 | 250 | 250 | 500 | 2 1/8 x 6 3/8 | 4 1/8 | 7 3/4 | 6 | 20 |
| T-21M65 | 96.00 | PUV | 500 | 320 | 320 | 640 | 3 1/8 x 10 | 5 1/8 | 11 | 6 7/8 | 50 |
| T-21M66 | 27.00 | KTV | 50 | 500 Ohm Line to R.F. Load—5000/6000/7000/8000/9000/10,000 Ohms—Max. Sec. D.C. 200 M.A. | | | 3 3/4 x 3 3/4 | 4 1/8 | 5 1/8 | 5 1/4 | 11 |

THORDARSON TRANSFORMERS



AGF



CAV



BAV

REPLACEMENT POWER TRANSFORMERS

| Type No. | List Price | Mtg. | H.V. Secondary A.C. Volts | M.A. D.C. | Ret. Fil. | Fil. No. 2 | Fil. No. 3 | Pri. Volts 50/60 Cy. | Pri. V.A. | Mtg. Centers | Dimensions W. D. H. | Wt. Lbs. | |
|----------|------------|------|---------------------------|-----------|-----------|----------------|----------------|----------------------|-----------|---------------|---------------------|----------|-------|
| T-22R00 | \$6.90 | AGF | 250-0-250 | 40 | 5V.-2A. | 6.3V. CT-2A. | | 117 | 45 | 2 x 2 1/2 | 2 1/2 x 3 | 1 11/16 | 1 3/4 |
| T-22R01 | 7.00 | AGF | 275-0-275 | 50 | 5V.-2A. | 6.3V. CT-2.5A. | | 117 | 55 | 2 x 2 1/2 | 2 1/2 x 3 | 1 11/16 | 2 1/4 |
| T-22R02 | 8.35 | AGF | 300-0-300 | 70 | 5V.-2A. | 6.3V. CT-3A. | | 117 | 65 | 2 x 2 1/2 | 2 1/2 x 3 | 2 1/16 | 2 3/4 |
| T-22R04 | 8.55 | AGF | 300-0-300 | 90 | 5V.-2A. | 6.3V. CT-3.5A. | | 117 | 80 | 2 1/4 x 2 1/8 | 2 1/2 x 3 3/8 | 2 1/16 | 3 |
| T-22R05 | 9.50 | AGF | 300-0-300 | 120 | 5V.-3A. | 6.3V. CT-5A. | | 117 | 95 | 2 1/2 x 3 1/8 | 3 1/8 x 3 3/8 | 2 1/2 | 4 1/4 |
| T-22R06 | 10.00 | AGF | 325-0-325 | 150 | 5V.-3A. | 6.3V. CT-5A. | | 117 | 125 | 2 1/2 x 3 1/8 | 3 1/8 x 3 3/8 | 3 | 5 1/4 |
| T-22R07 | 12.40 | AGF | 350-0-350 | 200 | 5V.-3A. | 6.3V. CT-6A. | | 117 | 165 | 3 x 3 3/8 | 3 3/4 x 4 1/2 | 2 13/16 | 7 1/4 |
| T-22R08 | 6.90 | AGF | 250-0-250 | 40 | 5V.-2A. | 2.5V. CT-1A. | | 117 | 40 | 2 x 2 1/2 | 2 1/2 x 3 | 1 11/16 | 1 1/4 |
| T-22R09 | 7.50 | AGF | 275-0-275 | 50 | 5V.-2A. | 2.5V. CT-1.5A. | | 117 | 55 | 2 x 2 1/2 | 2 1/2 x 3 | 1 11/16 | 2 1/4 |
| T-22R10 | 9.80 | AGF | 325-0-325 | 85 | 5V.-2A. | 2.5V. CT-9A. | 2.5V. CT-3.5A. | 117 | 90 | 2 1/2 x 3 1/8 | 3 1/8 x 3 3/4 | 2 1/4 | 3 1/2 |
| T-22R11 | 10.95 | AGF | 325-0-325 | 120 | 5V.-3A. | 2.5V. CT-12.5A | 2.5V. CT-5A | 117 | 125 | 2 1/2 x 3 1/8 | 3 1/8 x 3 3/4 | 3 | 5 1/2 |
| T-22R12 | 4.00 | BAH | 120V | 75 | 6.3V-1.5A | | | | | 3 1/8 | 3 11/16 x 1 1/4 | 2 3/8 | 1 |

POWER TRANSFORMERS (AMPLIFIER, ETC.)

| Type No. | List Price | Mtg. | H.V. Secondary | M.A. D.C. | Ret. Fil. | Fil. No. 2 | Fil. No. 3 | Pri. Volts | Pri. VA. | Mtg. Centers | Dimensions W. D. H. | Wt. Lbs. | |
|----------|------------|------|----------------|-----------|-----------|----------------|--------------|------------|----------|-----------------|---------------------|----------|--------|
| T-22R30 | \$8.35 | GGV | 275-0-275 | 50 | 5V.-2A. | 6.3V. CT-2.5A. | | 117 | 55 | 2 x 2 3/16 | 2 1/4 x 3 3/16 | 3 3/8 | 3 1/4 |
| T-22R31 | 9.50 | GGV | 360-0-360 | 80 | 5V.-2A. | 6.3V. CT-5A. | | 117 | 76 | 2 x 2 11/16 | 2 1/4 x 3 11/16 | 3 3/8 | 4 |
| T-22R32 | 11.25 | GGV | 350-0-350 | 110 | 5V.-2A. | 6.3V. CT-3A. | 6.3V. CT-3A. | 117 | 107 | 2 1/2 x 2 11/16 | 3 3/8 x 3 15/16 | 3 3/8 | 5 3/4 |
| T-22R33 | 12.10 | GGV | 375-0-375 | 160 | 5V.-3A. | 6.3V. CT-5A. | | 117 | 145 | 3 x 3 3/16 | 3 3/8 x 4 1/16 | 4 3/8 | 7 3/4 |
| T-22R34 | 15.55 | GGV | 385-0-385 | 225 | 5V.-3A. | 6.3V. CT-5A. | | 117 | 186 | 3 x 3 7/16 | 3 3/8 x 4 11/16 | 4 3/8 | 10 |
| T-22R35 | 16.50 | GGV | 400-0-400 | 340 | 5V.-6A. | 6.3V. CT-7A. | | 117 | 200 | 3 x 4 1/16 | 3 3/8 x 5 1/16 | 4 3/8 | 12 1/2 |
| T-22R36 | 12.50 | GGV | 600-0-600 | 200 | 5V.-3A. | 6.3V. CT-5A. | | 117 | 3 | 3 x 4 1/8 | 3 11/16 x 4 1/16 | 4 3/8 | 8 3/2 |

Intermittent Duty and Low Cost P. A. Amplifiers.

UNIVERSAL POWER REPLACEMENT "24" SERVICE LINE

| Type No. | List Price | Mtg. | H. V. Secondary A.C. Volts | M.A. D.C. | Ret. Fil. | Fil. No. 2 | Mtg. Centers | Dimensions W. D. H. | Wt. Lbs. | |
|------------|------------|------|----------------------------|-----------|-----------|--------------|-----------------|---------------------|----------|-------|
| TS-24R00 | \$4.90 | AGF | 240-0-240 | 40 | 5V.-2A | 6.3V.CT-2A | 2 x 2 1/2 | 2 1/2 x 3 | 1 11/16 | 1 3/4 |
| TS-24R00-U | 4.90 | GGV | 240-0-240 | 40 | 5V.-2A | 6.3V.CT-2A | 2 x 1 3/16 | 2 1/2 x 2 1/8 | 3 1/8 | 1 3/4 |
| TS-24R01 | 5.15 | AGF | 325-0-325 | 40 | 5V.-2A | 6.3V.CT-2A | 2 x 2 1/2 | 2 1/2 x 3 | 1 11/16 | 2 1/4 |
| TS-24R01-U | 5.15 | GGV | 325-0-325 | 40 | 5V.-2A | 6.3V.CT-2A | 2 x 1 11/16 | 2 1/2 x 2 1/8 | 3 1/8 | 2 1/4 |
| TS-24R02 | 6.25 | AGF | 350-0-350 | 70 | 5V.-2A | 6.3V.CT-2.5A | 2 1/4 x 2 13/16 | 2 1/2 x 3 3/8 | 2 1/2 | 3 1/2 |
| TS-24R02-U | 6.25 | GGV | 350-0-350 | 70 | 5V.-2A | 6.3V.CT-2.5A | 2 1/4 x 2 1/4 | 2 1/2 x 3 1/8 | 3 1/8 | 3 1/2 |
| TS-24R04 | 6.75 | AGF | 350-0-350 | 90 | 5V.-3A | 6.3V.CT-3.5A | 2 1/4 x 2 13/16 | 2 1/2 x 3 3/8 | 2 15/16 | 3 3/4 |
| TS-24R04-U | 6.75 | GGV | 350-0-350 | 90 | 5V.-3A | 6.3V.CT-3.5A | 2 1/4 x 2 5/8 | 2 1/2 x 3 1/8 | 3 1/8 | 3 3/4 |
| TS-24R05 | 7.65 | AGF | 350-0-350 | 120 | 5V.-3A | 6.3V.CT-4.7A | 2 1/2 x 3 3/8 | 3 1/8 x 3 3/4 | 3 | 5 |
| TS-24R05-U | 7.65 | GGV | 350-0-350 | 120 | 5V.-3A | 6.3V.CT-4.7A | 2 1/2 x 3 13/16 | 3 1/8 x 3 13/16 | 3 7/8 | 5 |
| TS-24R06 | 9.05 | AGF | 375-0-375 | 150 | 5V.-3A | 6.3V.CT-4.7A | 2 3/4 x 3 7/16 | 3 1/8 x 4 3/8 | 3 7/8 | 5 3/4 |
| TS-24R06-U | 9.05 | GGV | 375-0-375 | 150 | 5V.-3A | 6.3V.CT-4.7A | 2 3/4 x 3 11/16 | 3 1/8 x 4 1/4 | 4 1/4 | 5 3/4 |
| TS-24R07 | 12.00 | AGF | 400-0-400 | 200 | 5V.-3A | 6.3V.CT-5A | 3 x 3 3/4 | 3 3/4 x 4 3/8 | 4 3/8 | 8 1/2 |
| TS-24R07-U | 12.00 | GGV | 400-0-400 | 200 | 5V.-3A | 6.3V.CT-5A | 3 x 3 3/8 | 3 1/2 x 4 1/8 | 4 3/8 | 8 1/2 |

VIBRATOR POWER TRANSFORMERS

| Type No. | List Price | Mtg. | Primary | H.V. Secondary | Sec. No. 2 | Mtg. Centers | Dimensions W. D. H. | Wt. Lbs. | |
|----------|------------|------|----------------|---------------------------|------------|--------------|---------------------|----------|---|
| T-22R25 | \$6.50 | TTV† | 6-8 volts D.C. | 150 volts D.C. at 40 M.A. | | Exact Repl. | 2 3/8 x 2 3/8 | 3 | 2 |
| T-22R27 | 7.00 | TTV† | 6-8 volts D.C. | 250 volts D.C. at 50 M.A. | | Exact Repl. | 2 3/8 x 2 3/8 | 3 | 2 |

† Fully shielded and potted—popular replacement size.

PLATE TRANSFORMERS

The new Thordarson plate transformers are designed to deliver the rated D.C. voltage from a two-section filter which includes the voltage drop in the rectifier tubes and chokes. Two current ratings are indicated, "Continuous Commercial

Service" (CCS) and "Intermittent Commercial or Amateur Service" (ICAS). These dual ratings make it possible to select the plate transformer exactly suited for each application.

| Type No. | List Price | Pri. Volts Mtg. | Prim. V.A. ICAS | CCS | Secondary Volts A.C. R.M.S. | D.C. Volts | D.C.M.A. ICAS | CCS | Mtg. Centers | Dimensions W. D. H. | Wt. Lb. | |
|----------|------------|-----------------|-----------------|------|---------------------------------|----------------|---------------|-----|-----------------|------------------------|---------|-------|
| T-21P75 | \$155.25 | PUV 115/230 | 1900 | 1500 | 3000-2400-1500-0-1500-2400-3000 | 2500-2000-1250 | 650 | 500 | 4 1/2 x 12 1/8 | 7 1/2 x 13 1/2 x 9 1/8 | 135 | |
| T-21P77 | 90.50 | PUV 115/230 | 1250 | 900 | 3000-2450-0-2450-3000 | 2500-2000 | 425 | 300 | 3 1/4 x 10 | 6 3/8 x 11 | 9 | 77 |
| T-21P79 | 74.00 | PUV 115/230 | 1000 | 750 | 1875-1560-0-1560-1875 | 1500-1250 | 550 | 400 | 3 1/8 x 10 3/8 | 5 5/8 x 11 | 6 3/8 | 60 |
| T-21P81 | 69.00 | PUV 115* | 630 | 480 | 1560-1265-0-1265-1560 | 1250-1000 | 425 | 300 | 3 1/8 x 10 1/8 | 5 5/8 x 11 | 6 3/8 | 57 |
| T-21P82 | 69.00 | PUV 115* | 820 | 600 | 2335-1700-0-1700-2335 | 2000-1500 | 300 | 220 | 3 1/8 x 9 1/8 | 5 5/8 x 10 | 6 3/8 | 43 |
| T-21P83 | 36.00 | PUV 115* | 440 | 300 | 1560-1250-0-1250-1560 | 1250-1000 | 300 | 200 | 2 11/16 x 7 7/8 | 4 11/16 x 8 1/2 | 6 | 33 |
| T-21P85 | 29.35 | PUV 115* | 370 | 260 | 850-730-0-730-850 | 600-500 | 425 | 300 | 2 3/8 x 6 3/8 | 4 1/8 x 6 3/8 | 5 1/8 | 19 |
| T-21P87 | 17.25 | GGV 115* | 250 | 185 | 835-656-0-656-835 | 650-500 | 300 | 220 | 3 x 3 3/8 | 3 3/8 x 4 1/8 | 4 1/8 | 10 |
| T-21P89 | 11.50 | GGV 115 | 135 | 95 | 550-0-550 | 450 | 250 | 175 | 2 1/2 x 2 1/8 | 3 3/8 x 4 3/8 | 3 7/8 | 6 1/2 |
| T-21P91 | 40.00 | PUV 115 | 375 | 280 | 1200-0-1200 | 1000 and 750† | 200 | 150 | 2 3/8 x 3 3/8 | 4 1/8 x 7 3/8 | 5 1/8 | 22 |
| T-21P93 | 16.10 | GGV 115 | 210 | 160 | 900-0-900† | 1000 and 400† | 110 | 95 | 3 x 3 3/8 | 3 3/8 x 4 1/8 | 4 3/8 | 10 |
| | | | | | 1075-0-1075 | | 110 | 95 | | | | |
| | | | | | 500-0-500† | | 150 | 125 | | | | |

* Secondary voltages changed by means of primary taps.

† Designed for double rectifiers and will deliver both secondary ratings simultaneously. If only the lower voltage taps are used the current rating is equal to the current rating of both windings.



TRANSFORMER SPECIALISTS SINCE 1895 THORDARSON

THORDARSON TRANSFORMERS

FILAMENT TRANSFORMERS

| Type No. | List Price | Mtg. | Secondary | | Ins R.M.S. | Pri. Volts 50/60 Cy. | Mtg. Centers | Dimensions | | | Wt. Lbs |
|----------|------------|------|-----------|---------------------|------------|----------------------|---------------|------------|-------|----------|---------|
| | | | Volts | Amps. | | | | W | D | H | |
| T-21F00 | \$3.60 | BAV | 2.5 Ct. | @ 5 | 1600 | 117 | 2 3/8 | 2 3/8 | 1 3/4 | 2 3/8 | 1 1/2 |
| T-21F01 | 4.35 | BAV | 2.5 Ct. | @ 10 | 1600 | 117 | 2 1 1/16 | 3 1/8 | 2 | 2 1/8 | 2 1/4 |
| T-21F02 | 6.20 | CAV | 2.5 Ct. | @ 10 | 7500 | 117 | 2 x 1 3/4 | 2 3/8 | 2 1/4 | 3 1/8 | 2 1/4 |
| T-21F03 | 4.15 | BAV | 5 Ct. | @ 3 | 1600 | 117 | 2 3/8 | 3 1/8 | 1 3/4 | 2 1/8 | 1 1/2 |
| T-21F04 | 5.30 | BAV | 5 Ct. | @ 8 | 1600 | 117 | 2 1 1/16 | 3 1/8 | 2 | 2 1/8 | 2 1/4 |
| T-21F05 | 6.00 | CAV | 5 Ct. | @ 3 | 10,000 | 117 | 2 x 1 3/4 | 2 3/8 | 2 1/4 | 3 1/8 | 2 3/4 |
| T-21F06 | 6.35 | CAV | 5 Ct. | @ 13 | 1600 | 117 | 2 x 2 | 2 3/8 | 2 1/4 | 3 1/8 | 2 3/4 |
| T-21F07 | 8.65 | CAV | 5 Ct. | @ 21 | 1600 | 117 | 2 1/2 x 2 3/4 | 3 1/8 | 3 3/4 | 3 1/8 | 5 1/4 |
| T-21F08 | 3.15 | BAV | 6.3 Ct. | @ 1 | 1600 | 117 | 2 3/8 | 1 1/2 | 2 | 2 1/8 | 3/4 |
| T-21F10 | 4.15 | BAH | 6.3 Ct. | @ 3 | 1600 | 117 | 2 3/8 | 3 3/4 | 1 3/4 | 2 | 1 1/2 |
| T-21F11 | 6.15 | BAV | 6.3 Ct. | @ 6 | 1600 | 117 | 2 1 1/16 | 3 1/8 | 2 3/4 | 2 3/4 | 2 3/4 |
| T-21F12 | 6.05 | CAV | 6.3 Ct. | @ 10 | 1600 | 117 | 2 x 2 | 2 3/8 | 2 3/4 | 3 1/8 | 2 3/4 |
| T-21F14 | 4.15 | BAH | 6.3-5-2.5 | @ 2.5 | 1600 | 117 | 2 3/8 | 3 3/4 | 1 3/4 | 2 | 1 1/2 |
| T-21F15 | 4.60 | BAV | 7.5 Ct. | @ 4 | 1600 | 117 | 2 1 1/16 | 3 1/8 | 2 | 2 1 1/16 | 1 1/2 |
| T-21F16 | 6.05 | CAV | 7.5 Ct. | @ 8 | 1600 | 117 | 2 x 2 | 2 3/8 | 2 3/4 | 3 1/8 | 2 3/4 |
| T-21F17 | 7.50 | CAV | 7.5 Ct. | @ 12 | 1600 | 117 | 2 1/4 x 2 3/4 | 2 13/16 | 3 3/4 | 3 1/2 | 4 |
| T-21F18 | 6.05 | CAV | 10 Ct. | @ 5 | 1600 | 117 | 2 x 1 3/4 | 2 3/8 | 2 3/4 | 3 1/8 | 2 3/4 |
| T-21F19 | 8.65 | CAV | 10 Ct. | @ 12 or 11 Ct. @ 11 | 1600 | 117 | 2 1/2 x 2 3/4 | 3 3/8 | 3 3/4 | 3 1 1/16 | 5 1/4 |

CHOKES—REACTORS

Universal Types—Swinging and Smoothing

Thordarson Universal Chokes are designed for use both in the input and smoothing positions. Where the current taken from the power supply is essentially constant (not varying more than a few percent) the chokes should be selected so as not to exceed the rated D.C.-M.A. If the current fluctuates considerably, as is the case where the power supply furnishes a class B modulator stage, the chokes should be selected so as not to exceed the rated D.C.-M.A. rating under the steady

state of operation, and not to exceed the Max. D.C.-M.A. rating when the modulator stage is fully excited.

These are truly universal chokes suitable for use in power supplies requiring either input, swinging or smoothing types.

The tapped Splatter Chokes are used between the modulator and Class C stage for eliminating objectionable side band splatter. Full instructions and circuit diagrams are supplied with each unit.

| Type No. | List Price | Mtg. Fig. | Inductance in Henries* | | | Current in M.A. | | D.C. Res. Ohms | Test Volts R.M.S. | Mtg. Centers | Dimensions | | | Wt. Lbs. |
|-----------|------------|-----------|------------------------|------------|-----------|-----------------|-----------|----------------|-------------------|---------------------|------------|-------|----------|----------|
| | | | O D.C. | Rated D.C. | Max. D.C. | Rated D.C. | Max. D.C. | | | | W. | D. | H. | |
| T-20C50 | \$3.45 | BAH | 475 | 350 | 75 | 5 | 25 | 5500 | 2000 | 2 7/8 | 3 1/4 | 2 | 2 | 1 1/2 |
| T-20C51 | 2.30 | BAH | 70 | 35 | 15 | 15 | 25 | 1850 | 1200 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1 1/2 |
| T-20C52 | 2.00 | BAH | 13 | 8 | 4 | 40 | 65 | 450 | 1200 | 2 | 2 3/8 | 1 1/4 | 1 3/8 | 1 1/2 |
| T-20C59 | 2.40 | BAH | 14 | 7 | 5 | 55 | 65 | 200 | 1600 | 2 3/8 | 2 5/8 | 1 5/8 | 1 5/8 | 3/4 |
| T-20C53 | 2.95 | BAH | 24 | 12 | 8 | 80 | 100 | 375 | 2000 | 2 7/8 | 3 1/4 | 2 | 2 | 1 1/4 |
| T-20C64 | 3.60 | BAH | 15 | 4 | 3 | 130 | 150 | 100 | 1600 | 3 1/8 | 3 1 1/16 | 2 5/8 | 2 1/4 | 1 1/2 |
| T-20C54 | 4.90 | GGV | 16 | 8 | 4 | 150 | 200 | 145 | 2700 | 2x1 1/16 | 2 1/2 | 2 3/4 | 3 1/8 | 2 1/2 |
| T-20C54-P | 10.00 | CHT | 16 | 8 | 4 | 150 | 200 | 145 | 2700 | 2 1 1/16 x 2 3/4 | 3 | 2 3/4 | 4 | 3 3/4 |
| T-20C55 | 6.35 | GGV | 11 | 6 | 2 | 200 | 300 | 75 | 2700 | 2 1/4 x 2 | 2 7/8 | 3 1/4 | 3 1/2 | 3 1/2 |
| T-20C55-P | 12.75 | CHT | 11 | 6 | 2 | 200 | 300 | 75 | 2700 | 2 2 1/16 x 2 1 1/16 | 3 3/8 | 3 | 4 1/2 | 5 |
| T-20C56 | 9.25 | GGV | 10 | 7 | 4 | 300 | 375 | 60 | 3500 | 2 1/2 x 3 | 3 3/8 | 4 1/8 | 3 7/8 | 6 1/2 |
| T-20C56-P | 16.25 | CHT | 10 | 7 | 4 | 300 | 375 | 60 | 3500 | 3 3/8 x 3 1/2 | 4 1/4 | 3 3/4 | 4 1 1/16 | 8 1/2 |
| T-20C57 | 34.50 | PVV | 16 | 10 | 6 | 500 | 600 | 65 | 7500 | 2 1 1/16 x 7 | 4 1 1/16 | 7 3/4 | 6 | 26 |
| T-20C58 | 2.30 | BAH | .75 | .5 | .5 | .5 | .5 | 30 | 1100 | 2 3/8 | 2 1 1/16 | 1 1/2 | 1 5/8 | 1 1/2 |

*Measured at 50 volts, 60 cycles at D.C. current shown.

Dual Tone Control Reactor

| Type No. | List Price | Mtg. | Style | Rated D.C. | Rated M.A. | D.C. Res. | Test Volts | Mtg. Centers | Dimensions | Wt. Lbs. |
|----------|------------|--|-------|------------|------------|-----------|------------|--------------|----------------|----------|
| T-20C74 | \$4.75 | RAV | 22 | 0 | 220 | 220 | 500 | 1 1/8 | 1 3/8 Diameter | 2 |
| R-1068 | 3.15 | USED IN CONJUNCTION WITH DUAL TONE CONTROL CHOKE T-20C74 | | | | | | | | |

Splatter Chokes

| Type No. | List Price | Mtg. | Application | D.C. Resistance | Mtg. Dim. | Dimensions | Wt. Lbs. |
|----------|------------|------|--|-----------------|---------------|------------|----------|
| T-20C62 | \$4.00 | BAH | Inductance—2 to 1.5 H. @ 100 M.A. D.C. | 96 ohms | 2 1 1/16 | 1 1 1/16 | 1 3/8 |
| T-20C60 | \$16.25 | KTV | Inductance—2 to 1.5 H. @ 300 M.A. D.C. | 30 ohms | 2 5/8 x 3 3/8 | 3 1/2 | 4 1/2 |
| T-20C61 | 20.00 | KTV | Inductance—2 to 1.5 H. @ 500 M.A. D.C. | 27 ohms | 2 7/8 x 3 1/2 | 3 3/4 | 4 3/4 |

Voltage Changer—Auto Transformers

| Type No. | List Price | Mtg. | Primary | Secondary | Output | Dimensions | Wt. Lbs. |
|----------|------------|------|---------|-----------|--------|----------------|----------|
| T-23V21 | \$ 7.50 | GGV* | 220-250 | 110-125† | 100 | 2 1/2 x 1 1/16 | 3 3/8 |
| T-23V22 | 11.00 | GGV* | 220-250 | 110-125† | 150 | 2 1/2 x 1 1/16 | 3 3/8 |
| T-23V23 | 13.00 | GGV* | 220-250 | 110-125† | 250 | 3 x 2 3/16 | 3 1 1/16 |
| T-23V24 | 19.25 | GGV* | 220-250 | 110-125† | 500 | 3 x 3 1/16 | 3 1 1/16 |

*Furnished with primary cord and secondary receptacle. †Output is proportional to voltage applied to input.

| Type No. | List Price | Case Style | Secondary No. A.C. Volts | Rect. D.C. MA | Reet. Fil. | Fil. No. 2 | Fil. No. 3 | Mtg. Centers | Dimensions | Wt. Lbs. |
|----------|------------|------------|--------------------------|---------------|------------|------------|---------------------|----------------|------------|----------|
| T-22R40 | \$15.00 | GGV | 1800 | 2 | 2.5V-1.8A | 6.3V-6A | Tapped at 2.5V-2.1A | 2 1/2 x 2 1/16 | 3 3/8 | 3 3/4 |
| TV-24R92 | 12.00 | GGV | 2400 | 10 | 2.5V-1.75A | | | 2 3/4 x 2 1/16 | 3 1/2 | 3 3/8 |
| TV-24R98 | 15.00 | AGF | 350-0-350 | 200 | 5V-2A | 5V-3A | 6.3V-7A | 3 x 3 3/4 | 3 3/4 | 4 1/2 |

Power Supply 12" and 15" Receivers.

THORDARSON LITERATURE

TRANSFORMER MANUAL: A complete book containing literature on Radio receiver replacement transformers, Sound amplifiers, amateur transmitters and current Thordarson catalogs. Bound in heavy blue and orange loose leaf cover permitting addition of future Thordarson releases. Manual No. 340—50 cents.

TRANSFORMER CATALOG: A complete listing of Thordarson transformers, chokes, voltage changers, and regulators for receiver replacement, amateur radio and sound amplifiers. Tables and curves give complete data on application and characteristics of output, modulation and other transformers and chokes. Catalog 400—Free.

TRU-FIDELITY TRANSFORMER CATALOG: Complete technical data on Thordarson broadcast units. Includes audio

transformers, filters, line equalizers, filament transformers, filter reactors, plate transformers, and modulation reactors and transformers. Highest quality units that satisfy the requirements of discriminating engineers, broadcast stations and laboratories. Catalog 500—Free.

AMATEUR RADIO: Carefully prepared and edited to make learning of Radio, by all beginners, easy and interesting. Presents fundamental theory and instructions for making eode practice oscillators, receivers and transmitters. Has 160 pages and over 100 illustrations and drawings. Heavy book cover, finished in wear-resistant blue cloth and imprinted with gold lettering. Amateur net price—75 cents.



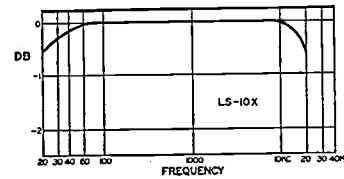
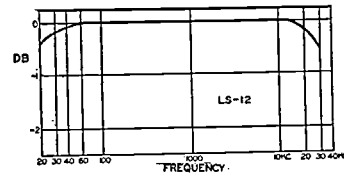
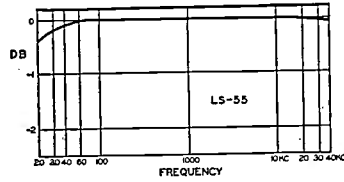
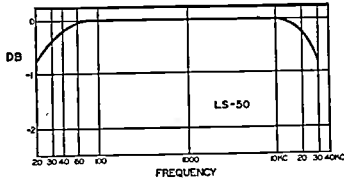
TRANSFORMER SPECIALISTS SINCE 1895 THORDARSON



LINEAR STANDARD AUDIO TRANSFORMERS

The ever increasing use of wide range equipment for broadcast service has reached the point where the major limiting factor is the frequency range of the transformers employed. UTC Linear Standard components represent the closest approach to the ideal transformer from the standpoint of uniform frequency response, low wave form distortion, high efficiency, thorough shielding, and dependability.

LINEAR STANDARD AUDIO UNITS FEATURE:



UNIFORM FREQUENCY RESPONSE . . . at low frequencies, is effected through the use of HIPERM-ALLOY, a STABLE nickel iron alloy of very high initial permeability. Uniform high frequency response is the result of multiple section interleaved windings arranged in a semi-toroidal coil structure. This, plus special winding methods and insulations, assures a minimum of distributed capacity and leakage reactance.

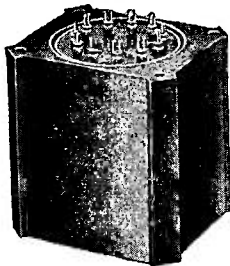
UTC LINEAR STANDARD transformers are the **ONLY** audio units with a **GUARANTEED** uniform response . . . ± 1 . DB from 20 to 20,000 cycles.

MINIMUM HUM PICKUP . . . is accomplished through the use of a hum balanced, semi-toroidal, coil structure which affords maximum neutralization of external fields. In addition, all low level units employ an internal high permeability alloy case as well as the high conductivity outer case for maximum shielding. For very low level applications, units whose code numbers end in X employ quadruple alloy shielding, making possible a transformer with the lowest inductive pickup commercially available.

NEGLECTIBLE WAVE FORM DISTORTION . . . is a function of proper impedance matching, minimum phase shift, and low flux density. These elements have been given great attention in the design of Linear Standard units. It is interesting to note that an output transformer reasonably flat from 20 to 20,000 cycles may show serious distortion at 30 and 10,000 cycles. For this reason, UTC high level units have a frequency range better than guaranteed value in some instances up to 50,000 cycles.

MULTIPLE TAP WINDINGS . . . make possible a wide combination of impedance terminations without impairing fidelity or efficiency. Precision winding methods result in winding accuracy of .1% . . . perfect balance of inductance and capacity . . . exact impedance reflection. For all practical uses, 500 ohm termination may be used for 600 ohm requirements. For maximum efficiency and balance, 250 ohm lines are recommended to be connected to 200 ohm terminations.

DEPENDABILITY . . . is a function of external and internal structure. Linear Standard units are housed in rugged die cast cases of precise dimension with reversible mounting to permit above chassis or subchassis wiring. The solid terminal posts on low absorption bakelite are arranged in a circular layout so that a round chassis hole will clear all terminals. Coils are vacuum baked and impregnated. Semi-hermetic sealing is accomplished through the use of a high adhesion compound poured through the large opening opposite the terminal board after controlled preheating of the unit for full compound penetration.



LS-1 CASE

| | |
|-------------|-----------------|
| Length | 3 3/8" |
| Width | 2 5/8" |
| Height | 3 1/4" |
| Mounting | 1 1/4" x 2 1/4" |
| Screws | 6-32 |
| Cutout | 1 7/8" dia. |
| Unit Weight | 3 lbs. |

LOW IMPEDANCE TO GRID TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | Relative* hum-pickup reduction | Max. Unbalanced DC Case in prim'y No. |
|----------|---|--|---------------------------------------|-----------------|------------|--------------------------------|---------------------------------------|
| LS-10 | Low impedance mike, pickup, or multiple line to grid | 50, 125/150, 200, 250, 333, 500/600 ohms | 60,000 ohms in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-10X | As above | As above | 50,000 ohms | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-12 | Low impedance mike, pickup, or multiple line to push pull grids | 50, 125/150, 200, 250, 333, 500/600 ohms | 120,000 ohms overall, in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-12X | As above | As above | 80,000 ohms overall, in two sections | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-14 | Low impedance mike, pickup or parallel mixer to grid | 2.5, 5.5, 10, 15, 22, 30, 38, 60 ohms | 60,000 ohms in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-14X | As above | As above | 50,000 ohms | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-15 | Three isolated lines or pads to one or two grids | 30, 50, 200, 250 ohms each primary | 60,000 ohms overall, in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-15X | As above | As above | As above | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-18 | High level multiple line to push pull grids | 50, 125/150, 200, 250, 333, 500/600 ohms | 50,000 ohms overall, in two sections | 20-20,000 | +30 DB | -50 DB | 5 MA LS-2 |
| LS-26 | Bridging line to single or push pull grids | 5,000 ohms | 60,000 ohms in two sections | 15-20,000 | +20 DB | -74 DB | 0 LS-1 |

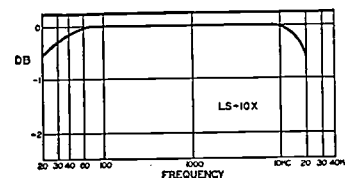
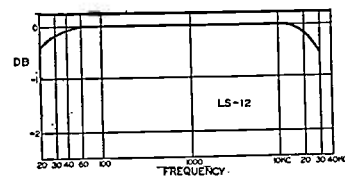
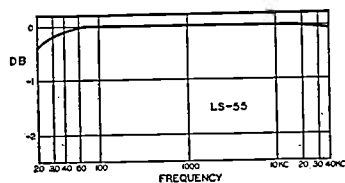
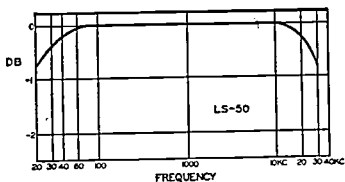
The values of unbalanced DC shown will effect approximately 1.5 DB loss at 30 cycles.
 * Comparison of hum balanced unit with magnetic shielding to normal uncased type.
 Q Quadruple alloy magnetic shield.



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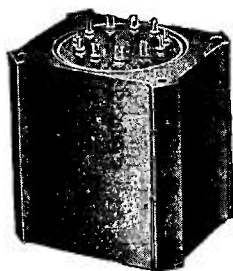
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NEGLECTIBLE WAVE FORM DISTORTION . . . is a function of proper impedance matching, minimum phase shift, and low flux density. These elements have been given great attention in the design of Linear Standard units. It is interesting to note that an output transformer reasonably flat from 20 to 20,000 cycles may show serious distortion at 30 and 10,000 cycles. For this reason, UTC high level units have a frequency range better than guaranteed value in some instances up to 50,000 cycles.

MULTIPLE TAP WINDINGS . . . make possible a wide combination of impedance terminations without impairing fidelity or efficiency. Precision winding methods result in winding accuracy of .1% . . . perfect balance of inductance and capacity . . . exact impedance reflection. For all practical uses, 500 ohm termination may be used for 600 ohm requirements. For maximum efficiency and balance, 250 ohm lines are recommended to be connected to 200 ohm terminations.

DEPENDABILITY . . . is a function of external and internal structure. Linear Standard units are housed in rugged die cast cases of precise dimension with reversible mounting to permit above chassis or subchassis wiring. The solid terminal posts on low absorption bakelite are arranged in a circular layout so that a round chassis hole will clear all terminals. Coils are vacuum baked and impregnated. Semi-hermetic sealing is accomplished through the use of a high adhesion compound poured through the large opening opposite the terminal board after controlled preheating of the unit for full compound penetration.



LS-1 CASE

| | |
|-------------|--------------------|
| Length | 3 3/8" |
| Width | 2 5/8" |
| Height | 3 1/4" |
| Mounting | 1 15/16" x 2 7/16" |
| Screws | 6-32 |
| Cutout | 1 7/8" dia. |
| Unit Weight | 3 lbs. |

LOW IMPEDANCE TO GRID TRANSFORMERS

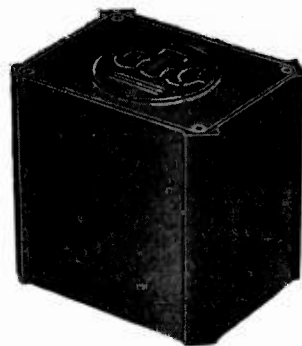
| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | Relative* hum-pickup reduction | Max. Unbalanced DC Case in prim'y No. |
|----------|---|--|---------------------------------------|-----------------|------------|--------------------------------|---------------------------------------|
| LS-10 | Low impedance mike, pickup, or multiple line to grid | 50, 125/150, 200, 250, 333, 500/600 ohms | 60,000 ohms in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-10X | As above | As above | 50,000 ohms | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-12 | Low impedance mike, pickup, or multiple line to push pull grids | 50, 125/150, 200, 250, 333, 500/600 ohms | 120,000 ohms overall, in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-12X | As above | As above | 80,000 ohms overall, in two sections | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-14 | Low impedance mike, pickup or parallel mixer to grid | 2.5, 5.5, 10, 15, 22, 30, 38, 60 ohms | 60,000 ohms in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-14X | As above | As above | 50,000 ohms | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-15 | Three isolated lines or pads to one or two grids | 30, 50, 200, 250 ohms each primary | 60,000 ohms overall, in two sections | 20-20,000 | +15 DB | -74 DB | 5 MA LS-1 |
| LS-15X | As above | As above | As above | 20-20,000 | +14 DB | -92 DB-Q | 5 MA LS-1 |
| LS-18 | High level multiple line to push pull grids | 50, 125/150, 200, 250, 333, 500/600 ohms | 50,000 ohms overall, in two sections | 20-20,000 | +30 DB | -50 DB | 5 MA LS-2 |
| LS-26 | Bridging line to single or push pull grids | 5,000 ohms | 60,000 ohms in two sections | 15-20,000 | +20 DB | -74 DB | 0 LS-1 |

The values of unbalanced DC shown will effect approximately 1.5 DB loss at 30 cycles.
 * Comparison of hum balanced unit with magnetic shielding to normal uncased type.
 Q Quadruple alloy magnetic shield.



INTERSTAGE AUDIO TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | Relative* hum-pickup reduction | Max. Unbalanced DC in prim'y | Case No. |
|----------|--|----------------------------|---------------------------------------|-------------|------------|--------------------------------|------------------------------|----------|
| LS-19 | Single plate to push pull grids like 2A3, 6L6, 300A. Split secondary | 15,000 ohms | 95,000 ohms; 1.25:1 each side | 20-20,000 | +17 DB | -50 DB | 0 MA | LS-1 |
| LS-20 | Single plate to single grid | 15,000 ohms | 60,000 ohms; 2:1 turn ratio | 20-20,000 | +14 DB | -74 DB | 0 MA | LS-1 |
| LS-21 | Single plate to push pull grids. Split primary and secondary | 15,000 ohms | 135,000 ohms; turn ratio 3:1 overall | 20-20,000 | +14 DB | -74 DB | 0 MA | LS-1 |
| LS-40 | Single plate to push pull grids. Split secondary | 15,000 ohms | 135,000 ohms; turn ratio 3:1 overall | 30-20,000 | +20 DB | -74 DB | 8 MA | LS-1 |
| LS-22 | Push pull plates to push pull grids. Split primary and secondary | 30,000 ohms plate to plate | 80,000 ohms; turn ratio 1.6:1 overall | 20-20,000 | +26 DB | -50 DB | .25 MA | LS-2 |
| LS-23 | Push pull plates to push pull grids. Medium level. Split primary and secondary | 30,000 ohms plate to plate | 50,000 ohms; turn ratio 1.3:1 overall | 20-20,000 | +17 DB | -74 DB | 1 MA | LS-1 |
| LS-25 | Bridging line to 1 or 2 grids | 5000 | 60,000 in two sections | 15-20,000 | +20 DB | -74 DB | 0 | LS-1 |

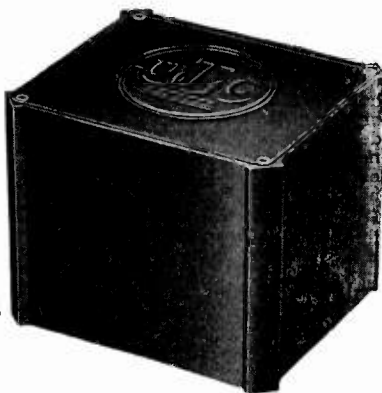


LS-2 CASE

Length _____ 4 7/16"
 Width _____ 3 1/2"
 Height _____ 4 3/16"
 Mounting _____ 2 1/16" x 3 1/16"
 Screws _____ 8-32
 Cutout _____ 2 3/4" dia.
 Unit Weight _____ 7.5 lbs.

MIXING TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | Relative* hum-pickup reduction | Max. Unbalanced DC in prim'y | Case No. |
|----------|--|--|--|-------------|------------|--------------------------------|------------------------------|----------|
| LS-30 | Mixing, low impedance mike, pickup, or multiple line to multiple line | 50, 125/150, 200, 250, 333, 500/600 ohms | 50, 125, 200, 250, 333, 500/600 ohms | 20-20,000 | +17 DB | -74 DB | 5 MA | LS-1 |
| LS-30X | As above | As above | As above | 20-20,000 | +15 DB | -92 DB-Q | 3 MA | LS-1 |
| LS-31 | Three isolated lines or pads to multiple line | 30, 50, 200, 250 ohms each primary | 50, 125/150, 200, 250, 333, 500/600 ohms | 20-20,000 | +15 DB | -74 DB | 5 MA | LS-1 |
| LS-31X | As above | As above | As above | 20-20,000 | +14 DB | -92 DB-Q | 3 MA | LS-1 |
| LS-32 | Mixing, low impedance mike, pickup, or parallel mixer to multiple line | 2.5, 5.5, 10, 15, 22, 30, 38, 60 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 20-20,000 | +15 DB | -74 DB | 5 MA | LS-1 |



LS-3 CASE

Length _____ 5 13/16"
 Width _____ 5"
 Height _____ 4 11/16"
 Mounting _____ 4 9/16" x 5 5/32"
 Screws _____ 10-32
 Cutout _____ 3 3/4" dia.
 Unit Weight _____ 15 lbs.

PLATE, CRYSTAL, PHOTOCELL, AND BRIDGING TO LINE TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | Relative* hum-pickup reduction | Max. Unbalanced DC in prim'y | Case No. |
|----------|--|----------------------------|--|-----------------------|------------|--------------------------------|------------------------------|----------|
| LS-27 | Single plate to multiple line | 15,000 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 30-12,000 cycles | +20 DB | -74 DB | 8 MA | LS-1 |
| LS-50 | Single plate to multiple line | 15,000 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 20-20,000 | +17 DB | -74 DB | 0 MA | LS-1 |
| LS-51 | Push pull low level plates to multiple line | 30,000 ohms plate to plate | 50, 125/150, 200, 250, 333, 500/600 ohms | 20-20,000 | +20 DB | -74 DB | 1 MA | LS-1 |
| LS-38 | Crystal microphone pickup to multiple line, with internal equalizer | 100,000 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | Equalized for crystal | +14 DB | -74 DB | 0 MA | LS-1 |
| LS-39 | Photocell, high-mu triode, diode or overbiased detector to multiple line | 100,000 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 20-20,000 | +14 DB | -74 DB | 0 MA | LS-1 |
| LS-150 | Bridging transformer from 50 to 500 ohm line to line | 1,000 ohms, bridging | 50, 125/150, 200, 250, 333, 500/600 ohms | 15-30,000 | +20 DB | -74 DB | 1 MA | LS-1 |
| LS-151 | Bridging transformer from 50 to 500 ohm line to line | 16,000 ohms, bridging | 50, 125/150, 200, 250, 333, 500/600 ohms | 15-30,000 | +22 DB | -74 DB | 1 MA | LS-1 |

HYBRID AND REPEAT COILS

| Type No. | Application | Pri. and Sec. Impedances | ± 1 db from | Max. Level | Hum* Reduction | Max. Unbalanced DC in prim'y | Case No. |
|----------|--|---|-----------------------|------------|----------------------------------|------------------------------|----------|
| LS-140 | Line to line for isolating balanced and unbalanced circuits; balanced for maximum reduction cross talk (70 DB) | 500/600 ohms split 500/600 ohms split | 30-20,000 | +10 DB | -92 DB Quadruple alloy shield | 0 MA | LS-1 |
| LS-141 | Three sets of balanced windings for hybrid service, center-tapped | 500/600 ohms 500/600 ohms | 30-15,000 | +10 DB | -74 DB | 0 MA | LS-1 |
| LS-142 | Line to line and to push pull grids for hybrid service | 500/600 ohms 500/600 ohms 60,000 ohms | 30-15,000 | +10 DB | -74 DB | 0 MA | LS-1 |
| LS-143 | High efficiency ring and talk repeat coil, for low frequency ringing | 500/600 ohms 500/600 ohms | Efficient 15/12 cycle | +25 DB | -74 DB | 5 MA | LS-2 |

SPECIAL LS UNITS

Custom built LS units are available for any frequency from 1/2 cycle to 300 Kc. and for levels from -160 DB to 100 Kw. One of the many unusual LS designs is described below.

BOLOMETER TRANSFORMER

Frequency Range _____ 1/2 cycle to 20 cycles
 Primary Impedance _____ 10 ohms C. T.
 Secondary Impedance _____ .75 megohms C. T.
 Secondary Impedance _____ .75 megohenries
 Shielding _____ for -160 DB operation
 Case _____ RC-112 (See pg. N-48)
 Type D-1515 _____ Net Price \$80.00



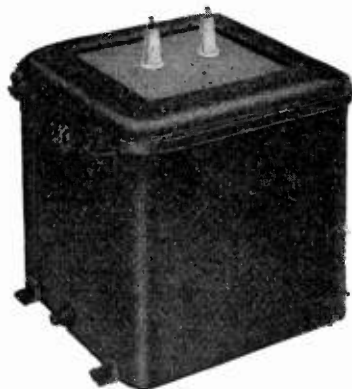
LS-6 CASE

Length _____ 15 3/4"
 Width _____ 13"
 Height _____ 22"
 Mounting _____ 7 3/8" x 1 1/4"
 Mounting Hole _____ 3/8" dia
 Unit Weight _____ 350 lbs

OUTPUT TRANSFORMERS

Linear Standard output and matching transformers employ large cores of high permeability steel and precisely balanced, highly interleaved coil structures. The frequency response and harmonic distortion are unequalled in commercially available material.

The multiple tap windings afford a wide range of impedances for every application. The impedance values given are for one load. Where it is desired to feed two loads simultaneously, with equal power, it is necessary to connect the loads to terminations of half the impedance value. For example, if it is desired to split the output between a 500 ohm line and a 15 ohm voice coil, connect the 500 ohm line to 250 ohm termination and the 15 ohm speaker to the 7.5 ohm termination. If the bulk of the output is desired in one of the loads, connect this load to its correct termination and the other load to a termination of 20% rating or less. For example, if in the above case, the speaker were used solely for monitoring, connect 500 ohm line to 500 ohm termination and 15 ohm voice coil to 2.5 ohm termination.



LS-7 CASE

Length _____ 20 3/8"
 Width _____ 17 3/4"
 Height _____ 26"
 Mounting _____ 1 1/8" x 1 3/8"
 Mounting Hole _____ 3/8" dia
 Unit Weight _____ 500 lbs.



DRIVER TRANSFORMERS

| Type No. | Application | Primary Impedance | Reflected Secondary Impedance | ± 1 db from | Max. Level | Unbalanced DC in Primary | Case No. |
|----------|--|--------------------------------------|---|-------------|------------|--------------------------|----------|
| LS-5 | Driver, multiple line to class B 838's, 805's, ZB-120's, 203A's and similar tubes | 50, 125, 200, 250, 333, 500/600 ohms | 2,000 ohms: 1:2 overall turns ratio | 20-20,000 | +36 DB | 5 MA | LS-2 |
| LS-6 | Driver, push pull 45's, 59's, 2A3's, 6A5G's, etc., to push pull 845 or 211D grids | 5,000 ohms plate to plate | 2.25 primary impedance: turns ratio 1.5:1 overall | 20-20,000 | +33 DB | 5 MA | LS-2 |
| LS-7 | Push pull 56, 6C5 or similar plates to A prime 45's, 42's, 6F6's, 2A3's, 6L6's | 30,000 ohms plate to plate | .45 primary impedance: turn ratio 1.5:1 Pri. to Sec. | 20-20,000 | +25 DB | 1 MA | LS-2 |
| LS-47 | Driver from push pull 2A3's, 6A5G's, or 300A's to class B 838's, 203A's, 805's, or ZB120's | 5,000 ohms plate to plate | .1 pri. impedance: turns ratio, Pri./1/2 Sec. 3:1:1 | 20-20,000 | +33 DB | 5 MA | LS-2 |
| LS-48 | Driver transformer push pull 845's to 204 or 840 grids in class B. | 12,000 ohms plate to plate | .038 pri. impedance: turns ratio, Pri./1/2 Sec. 5:1:1 | 20-20,000 | +42 DB | 15 MA | LS-3 |
| LS-49 | Push pull parallel 2A3, 6A5G, or 300A tubes to four 838, 203A, 805, or ZB120 tubes. | 2,500 ohms plate to plate | Ratio Pri./1/2 Sec. 4:1 and 2.5:1 | 20-20,000 | +39 DB | 10 MA | LS-3 |

OUTPUT TRANSFORMERS TO LINE AND VOICE COIL

| Type No. | Primary will match following typical tubes | Primary Impedance | Secondary Impedance | *±.2 db from | Max. Level | Case No. |
|----------|---|--|---|--------------|------------|----------|
| LS-52 | Push pull 245, 250, 6V6, 42 or 2A5 A prime | 8,000 ohms | 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 15 watts | LS-2 |
| LS-54 | Same as above | 8,000 ohms | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 15 watts | LS-2 |
| LS-55 | Push pull 2A3's, 6A5G's, 300A's, 275A's, 6A3's, 6L6's | 5,000 ohms plate to plate and 3,000 ohms plate to plate | 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 20 watts | LS-2 |
| LS-57 | Same as above | 5,000 ohms plate to plate and 3,000 ohms plate to plate | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 20 watts | LS-2 |
| LS-58 | Push pull parallel 2A3's, 6A5G's, 300A's, 6A3's | 2,500 ohms plate to plate and 1,500 ohms plate to plate | 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 40 watts | LS-3 |
| LS-60A | Push pull 2A3's, 6A3's, 6B4G's fixed bias, cathode follower drive | 4,600 ohms plate to plate | 15, 10, 7.5, 5, 3.75, 2.5, 1.2 | 20-20,000 | 30 watts | LS-3 |
| LS-62A | Same as above | As above | 500, 125 | 20-20,000 | 30 watts | LS-3 |
| LS-61 | Push pull 6B5, 6A6, 53, 6P6, 71A, 59, 79, 59, class B+6, 59's | 10,000 ohms plate to plate and 6,000 ohms plate to plate | 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 15 watts | LS-2 |
| LS-63 | Same as above | 10,000 ohms plate to plate and 6,000 ohms plate to plate | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 15 watts | LS-2 |
| LS-6L1 | Push pull 6L6's self bias AB1 | 9,000 ohms plate to plate | 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 30 watts | LS-3 |
| LS-6L3 | Same as above | 9,000 ohms plate to plate | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 30 watts | LS-3 |
| LS-6L4 | Push pull 6L6's fixed bias or push pull parallel 6L6's self bias | 3,800 ohms plate to plate and 4,500 ohms plate to plate | 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 55 watts | LS-3 |

*Note: Actual frequency response is 10-.50,000 cycles. Values shown indicate recommended range for minimum distortion.

OUTPUT TRANSFORMERS TO HIGH IMPEDANCE (RF) LOAD

| Type No. | Primary will match following typical tubes | Primary Impedance | Secondary Impedance | *±.4 db from | Max. Level | Case No. |
|----------|--|---|--|--------------|------------|---------------------|
| LS-56 | Push pull 2A3's, 6A5G's, 300A's, 275A's, 6A3's | 5,000 ohms plate to plate and 3,000 ohms plate to plate | 6000, 5000, 4000, 1800, 1500, 1000, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 25-20,000 | 20 watts | LS-2 |
| LS-66 | Class B 203A, 838, ZB120, 805 | 9,000 ohms plate to plate | 5000, 4200, 4100, 3500, 3300, 2850, 2500, 2100, 1250, 600 | 25-20,000 | 260 watts | See chart next page |
| LS-67 | Class B 203A, 838, ZB120, 805 | 9,000 and 6900 ohms plate to plate | 10000, 2500 | 25-20,000 | 260 watts | See chart next page |
| LS-691 | Class B 840, 833, 250TH | 10,400 ohms plate to plate | 4500, 4000, 3500, 2750, 2000 | 25-20,000 | 1000 watts | LS-6 |
| LS-692 | Class B push pull parallel 833's | 3,850 ohms plate to plate | 2500, 2000, 1750, 1500, 1250 | 25-20,000 | 2500 watts | LS-7 |
| LS-693 | To specifications | | | 25-20,000 | 5000 watts | Spec. |

HIGH LEVEL MATCHING TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | *±.2 db from | Max. Level | Case No. |
|----------|--------------------------|--------------------------------------|---|--------------|------------|----------|
| LS-33 | High level line matching | 50, 125, 200, 250, 333, 500/600 ohms | 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, 500/600 | 20-20,000 | 15 watts | LS-2 |
| LS-34 | High level line matching | 50, 125, 200, 250, 333, 500/600 ohms | 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, 500/600 | 20-20,000 | 30 watts | LS-3 |

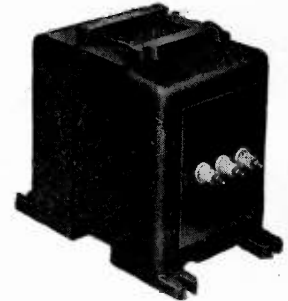


LINEAR STANDARD POWER EQUIPMENT

In choosing power components for broadcast and commercial equipment, the first factor to be considered is dependability. Linear standard power components are very conservatively designed for maximum reliability. Designs provide for low temperature rise 40°, and high insulation safety factors. Only the finest of materials and workmanship are used throughout.

The low power components of the Linear Standard series are housed in the familiar rectangular LS case with top or bottom mounting facilities. High power components are housed in end castings which completely protect the winding, while directly exposing the laminations for maximum heat transfer.

All units have a deep grey finish to obtain the highest heat radiation co-efficient. Large components (up to 250 KVA) are housed in oil tanks.



DIMENSION CHART

| Type No. | L | W | H | Mtg. | Wt. |
|----------|--------------|-------|--------|----------------|-----|
| LS-66 | 9 3/4 | 4 1/4 | 6 3/4 | 3 3/4 x 9 1/4 | 37 |
| LS-67 | 9 3/4 | 4 1/4 | 6 3/4 | 3 3/4 x 9 1/4 | 37 |
| LS-73 | 9 1/2 | 4 1/4 | 6 3/4 | 3 3/4 x 8 3/4 | 34 |
| LS-83 | 8 3/4 | 4 1/4 | 6 3/4 | 3 3/4 x 8 3/4 | 25 |
| LS-89A | 9 3/4 | 7 | 9 | 6 x 8 3/4 | 68 |
| LS-96 | 10 1/4 | 4 1/4 | 6 3/4 | 3 3/4 x 9 3/4 | 40 |
| LS-99 | 14 1/4 | 8 3/4 | 10 1/4 | 7 1/4 x 13 1/4 | 80 |
| LS-102 | 9 3/4 | 4 1/4 | 6 3/4 | 3 3/4 x 9 3/4 | 37 |
| LS-103 | 13 1/4 | 8 3/4 | 10 1/4 | 7 1/4 x 12 1/4 | 58 |
| LS-104A | 16 1/4" High | — | | LS-7 Case | 500 |
| LS-105 | 12 1/4 | 8 1/4 | 10 1/4 | 7 1/4 x 12 1/4 | 58 |
| LS-121Y | 8 1/4 | 3 3/4 | 5 1/4 | 3 x 7-13/16 | 23 |
| LS-181 | 9 3/4 | 4 1/4 | 6 3/4 | 3 3/4 x 9 3/4 | 37 |
| LS-182 | 10 3/4 | 4 3/4 | 6 3/4 | 3 3/4 x 10 3/4 | 45 |
| LS-183 | 15 1/4 | 10 | 13 1/4 | 8 1/4 x 14 1/4 | 70 |
| LS-184 | 17 1/4 | 10 | 13 1/4 | 8 1/4 x 16 1/4 | 102 |
| LS-185 | 23 | 10 | 13 1/4 | 8 1/4 x 22 | 230 |

PLATE TRANSFORMERS

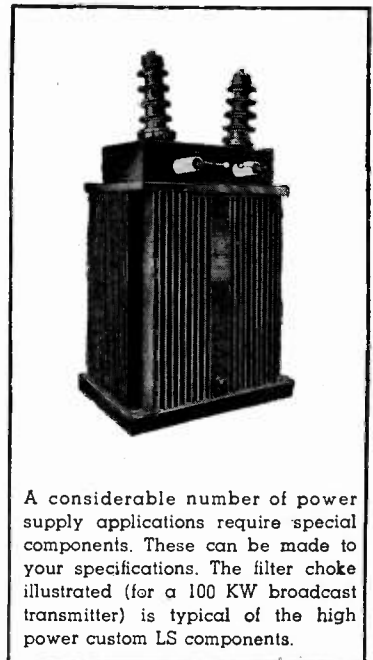
| Type No. | Application | Primary Voltage 50/60 cycles | High Voltage | Approximate DC Voltage Out of Filter | DC Current |
|----------|---|---------------------------------|-------------------------------------|--|------------|
| LS-181 | For push pull 845, 800, etc. | 100, 110, 120, 220, 230, 240 | 1500-1250-0-1250- 1500 | 1250-1050 | 200 MA |
| LS-182 | Class B 203, 838, ZB120, etc. | 100, 110, 120, 220, 230, 240 | 1500-1250-0-1250- 1500 | 1250-1050 | 350 MA |
| LS-183 | Class B 805 or push pull parallel 203A's, etc. | 100, 110, 120, 220, 230, 240 | 1750-1500-0-1500- 1750 | 1500-1250 | 400 MA |
| LS-184 | Class B 204A, 849, HF200, HF300, 250TH, HK354, 100TH, etc. | 100, 110, 120, 220, 230, 240 | 3500-3000-2500-0- 2500-3000-3500 | 3000-2500-2100 | 500 MA |
| LS-185 | For combined class B and class C stages as above | 100, 110, 120, 220, 230, 240 | 3500-3000-2500-0- 2500-3000-3500 | 3000-2500-2100 | 1.2 amp. |

COMBINED PLATE AND FILAMENT TRANSFORMERS

| Type No. | Application | Primary Voltage 50/60 cycles | High Voltage | Filament Windings | Case No. |
|----------|--|---------------------------------|---|---|---------------------------|
| LS-180 | For pre-amplifier service | 110 | 225-0-225 15 MA | 6.3 V.C.T.-2A 15 MA | LS-1 |
| LS-180H | Same as above but in hum-balanced construction (dual coils symmetrically arranged to neutralize stray fluxes) | | | | LS-1 |
| LS-190 | Low power amplifier and receiver service | 100, 105, 110, 115, 120, 125 | 350-300-0-300-350 125 MA | 5 V.C.T.-3A 2.5 V.C.T.-6A 6.3 V.C.T.-3A | LS-3 |
| LS-70 | High power amplifier service | 100, 105, 110, 115, 120, 125 | 425-375-0-375-425 200 MA 70-0-70 50 MA | 5 V.C.T.-3A 5 V.C.T.-2A 2.5 V.C.T.-10A 6.3 V.C.T.-1A 6.3 V.C.T.-3A | LS-3 |
| LS-72 | For fixed or self bias 6L6's, 300A's | 100, 105, 110, 115, 120, 125 | 525-450-0-450-525 250 MA 70-0-70 50 MA | 5 V.C.T.-3A 2.5 V.C.T.-3A 2.5 V.C.T.-3A 6.3 V.C.T.-1A 6.3 V.C.T.-3A tapped at 5 V.C.T.-6A | LS-3 |
| LS-73 | For push pull parallel 6L6's, 300A's, 2A3's | 100, 105, 110, 115, 120, 125 | 500-400-0-400-500 500 MA 70-0-70 50 MA | 5 V.C.T.-6A 2.5 V.C.T.-10A 2.5 V.C.T.-3A 6.3 V.C.T.-1A 6.3 V.C.T.-4A 6.3 V.C.T.-6A tapped at 5 V.C.T.-6A | See chart above, right |

FILAMENT TRANSFORMERS

| Type No. | Application | Primary Voltage 50/60 cycles | Secondary Voltage | Insulation Test Voltage | Case No. |
|----------|------------------------------|---------------------------------|--|----------------------------|-----------|
| LS-80 | 866 rectifiers | 100, 110, 120, 220, 230, 240 | 2.5 V.C.T.-10A | 10,000 | LS-3 |
| LS-82 | 872 rectifiers | 100, 110, 120, 220, 230, 240 | 5 V.C.T.-20A | 12,000 | LS-3 |
| LS-84 | 203A, 845, etc. HF200, HF300 | 100, 110, 120, 220, 230, 240 | 10 V.C.T.-8A | 10,000 | LS-3 |
| LS-88 | 6.3 volt tubes | 105, 115, 125 | 6.3 V.C.T.-2A | 2,500 | LS-1 |
| LS-120 | 866 Bridge rectifier | 100, 110, 120, 220, 230, 240 | 2.5 V.C.T.-10A 2.5 V.C.T.-5A | 12,000 | LS-3 |
| LS-121Y | 872 Bridge rectifier | 100, 110, 120, 220, 230, 240 | 5 V.C.T.-20A 5 V.C.T.-10A 5 V.C.T.-10A | 12,000 | See chart |
| LS-83 | 872A, 875 or 869 rectifiers | 100, 110, 120, 220, 230, 240 | 5 V.C.T.-20A | 35,000 | See chart |
| LS-89A | Three 869 rectifiers | 100, 110, 120, 220, 230, 240 | 5 V.C.T.-60A | 35,000 | See chart |

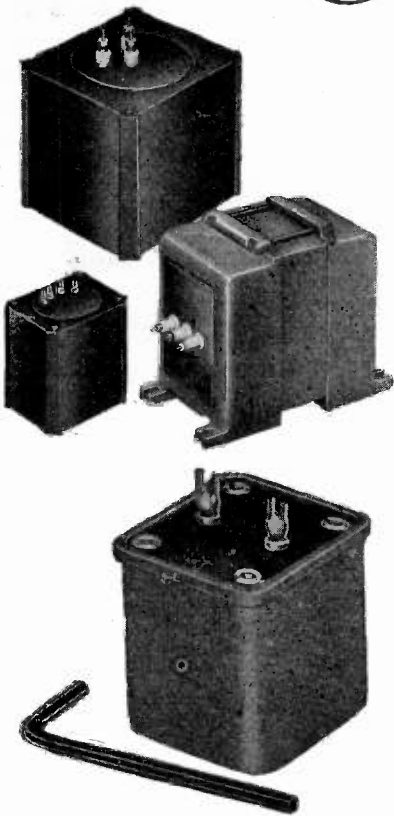


A considerable number of power supply applications require special components. These can be made to your specifications. The filter choke illustrated (for a 100 KW broadcast transmitter) is typical of the high power custom LS components.



LINEAR STANDARD FILTER, SWINGING, AND AUDIO CHOKES

(Inductance values are at D.C. current shown)



| Type No. | Application | Inductance | DC Current | DC Resistance | Insulation Test Voltage | Case No. |
|----------|-----------------------------------|----------------------------------|------------------|------------------------|-------------------------|----------|
| LS-90 | Filter choke with hum bucking tap | Series-50 hy Parallel-12.5 hy | 50 MA 100 MA | 510 ohms 128 ohms | 2000 | LS-2 |
| LS-91 | Filter choke with hum bucking tap | Series-14 hy Parallel-3.5 hy | 125 MA 250 MA | 200 ohms 50 ohms | 2000 | LS-2 |
| LS-92 | Filter choke with hum bucking tap | Series-16 hy Parallel-4 hy | 175 MA 550 MA | 96 ohms 24 ohms | 2500 | LS-3 |
| LS-93 | Filter choke with hum bucking tap | Series-26 hy Parallel-6.25 hy | 200 MA 400 MA | 112 ohms 28 ohms | 3500 | LS-3 |
| LS-94 | Parallel feed and filter choke | Series-320 hy Parallel-30 hy | 3 MA 6 MA | 6400 ohms 1600 ohms | 1500 | LS-1 |
| LS-950 | Filter choke with hum bucking tap | Series-100 hy Parallel-25 hy | 35 MA 70 MA | 1000 ohms 200 ohms | 1500 | LS-2 |
| LS-96 | Filter choke with hum bucking tap | Series-20 hy Parallel-5 hy | 500 MA 1 amp | 90 ohms 22.5 ohms | 7500 | * |
| LS-980 | Filter choke with hum bucking tap | Series-14 hy Parallel-3.5 hy | 400 MA 800 MA | 100 ohms 25 ohms | 5000 | LS-3 |
| LS-98 | Swinging choke | 8-40 hy | 400 MA | 90 ohms | 5000 | LS-3 |
| LS-99 | Filter choke with hum bucking tap | Series-20 hy Parallel-5 hy | 1 amp 2 amp | 50 ohms 12.5 ohms | 10000 | * |
| LS-105 | Swinging choke | 8-40 hy | 1 amp | 50 ohms | 10000 | * |

* See chart on preceding page.

MODULATION REACTORS

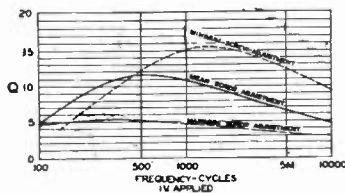
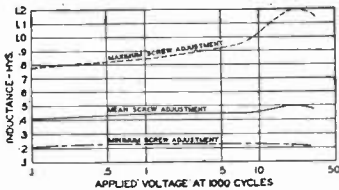
| Type No. | Application | Inductance | DC Current | DC Resistance | Insulation Test Voltage | Case No. |
|----------|--------------------|------------|------------|---------------|-------------------------|----------|
| LS-102 | Modulation reactor | 50 hy | 350 MA | 250 ohms | 5000 | * |
| LS-103 | Modulation reactor | 50 hy | 500 MA | 17.5 ohms | 7500 | * |
| LS-104A | Modulation reactor | 50 hy | 1.3 amp | 75 ohms | 20000 | * |
| LS-106 | Modulation reactor | 50 hy | 750 MA | 120 ohms | 10000 | Special |

* See chart on preceding page.

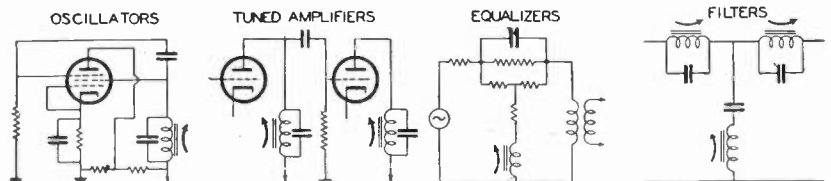
UTC VARIABLE INDUCTORS

UTC type VIC variable inductors offer a revolutionary approach to the problem of tuned audio circuits. By adjusting a set screw on the side of the case, an inductance value of +90%, -50% from mean value is obtainable. Setting is positive. Effective Q for a wide frequency range and variation of inductance with applied AC voltage are shown on the illustrated curves, for a typical VIC unit.

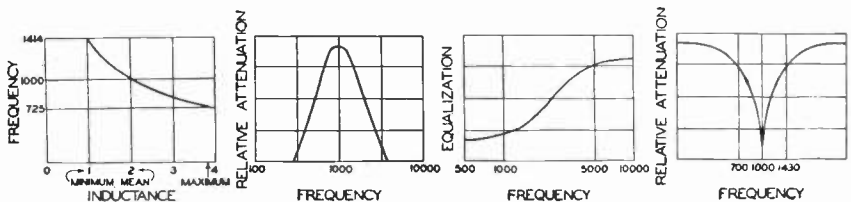
The VIC inductor is housed in a rugged die cast case 1¹³/₃₂" long, 1¹/₄" wide and 1¹/₈" high with mounting centers on terminal board side 1³/₁₆" by 2⁹/₃₂" Weight is 5¹/₂ oz.



TYPICAL VIC APPLICATIONS

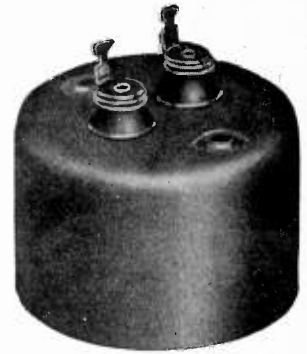
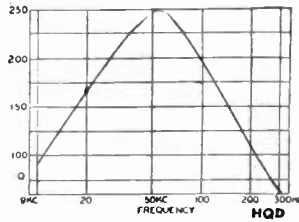
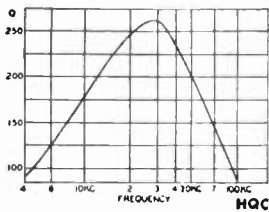
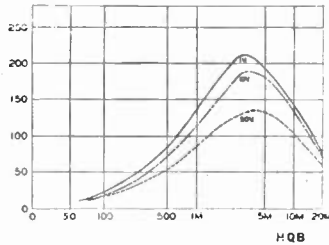
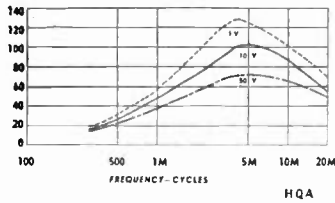


| Type | Mean Hys | Type | Mean Hys. |
|--------|----------|--------|-----------|
| VI-C1 | .0085 | VI-C12 | 1.3 |
| VI-C2 | .013 | VI-C13 | 2.2 |
| VI-C3 | .021 | VI-C14 | 3.4 |
| VI-C4 | .034 | VI-C15 | 5.4 |
| VI-C5 | .053 | VI-C16 | 8.5 |
| VI-C6 | .084 | VI-C17 | 13. |
| VI-C7 | .13 | VI-C18 | 21. |
| VI-C8 | .21 | VI-C19 | 33. |
| VI-C9 | .34 | VI-C20 | 52. |
| VI-C10 | .54 | VI-C21 | 83. |
| VI-C11 | .85 | VI-C22 | 130. |





UTC HIGH Q TOROID INDUCTORS



HQA, HQC, HQD CASE

| | |
|----------|-----------------|
| Diameter | 1 1/16" |
| Height | 1 3/16" |
| Mounting | 1 1/8" |
| Screws | 6-32 |
| Cutout | 9/16" x 1 3/16" |
| Weight | 5 oz. |



HQB CASE

| | |
|-------------|---------------------|
| Length | 2 5/8" |
| Width | 1 5/8" |
| Height | 2 1/2" |
| Mounting | 1 11/64" x 2 11/64" |
| Screws | 6-32 |
| Cutout | 9/16" x 1 1/8" |
| Unit Weight | 14 oz. |

| Type No. | Inductance Value | *DC MA Max. |
|----------|------------------|-------------|
| HQA-1 | 5 mhy. | 400 |
| HQA-2 | 12.5 mhy. | 260 |
| HQA-3 | 20 mhy. | 200 |
| HQA-4 | 30 mhy. | 160 |
| HQA-5 | 50 mhy. | 130 |
| HQA-6 | 80 mhy. | 100 |
| HQA-7 | 125 mhy. | 85 |
| HQA-8 | 200 mhy. | 65 |
| HQA-9 | 300 mhy. | 50 |
| HQA-10 | .5 hy. | 40 |
| HQA-11 | .75 hy. | 35 |
| HQA-12 | 1.25 hy. | 26 |
| HQA-13 | 2. hy. | 20 |
| HQA-14 | 3. hy. | 16 |
| HQA-15 | 5. hy. | 13 |
| HQA-16 | 7.5 hy. | 10 |
| HQA-17 | 10. hy. | 9 |
| HQA-18 | 15. hy. | 8 |
| HQB-1 | 10 mhy. | 410 |
| HQB-2 | 30 mhy. | 240 |
| HQB-3 | 70 mhy. | 170 |
| HQB-4 | 120 mhy. | 120 |
| HQB-5 | .5 hy. | 60 |
| HQB-6 | 1. hy. | 41 |
| HQB-7 | 2. hy. | 30 |
| HQB-8 | 3.5 hy. | 22 |
| HQB-9 | 7.5 hy. | 16 |
| HQB-10 | 12. hy. | 11 |
| HQB-11 | 18. hy. | 9 |
| HQB-12 | 25. hy. | 8 |
| HQC-1 | 1 mhy. | |
| HQC-2 | 2.5 mhy. | |
| HQC-3 | 5 mhy. | |
| HQC-4 | 10 mhy. | |
| HQC-5 | 20 mhy. | |
| HQD-1 | .4 mhy. | |
| HQD-2 | .1 mhy. | |
| HQD-3 | 2.5 mhy. | |
| HQD-4 | 5 mhy. | |
| HQD-5 | 15 mhy. | |

There are many applications in the audio, carrier, and supersonic fields requiring inductors of high Q and great stability. The HQ series of permalloy dust toroid units developed for these applications have remarkable characteristics.

HQA coils have maximum Q (100) at approximately 5,000 cycles. **HQB** coils have maximum Q (200) at approximately 4,000 cycles. **HQC** coils have maximum Q (200) at approximately 30 Kc. **HQD** coils have maximum Q (200) at approximately 60 Kc. The stability is excellent and types are available for all high Q applications from 300 cycles to 300 Kc.

Stability is excellent. For the HQA-7 coil illustrated inductance change is less than 1% for applied voltages from .1 to 25 volts. For the HQB-5 coil illustrated the inductance change is less than 1% for applied voltage from .1 to 50 volts. DC is permissible through the coil. Inductance is virtually independent of frequency, temperature, and vibration.

Hum pickup is extremely low due to the toroidal winding structure . . . 70 microvolts per gauss for the HQA, 140 microvolts per gauss for the HQB. The cased toroid structure permits close spacing of units, effecting a coupling attenuation of approximately 80 DB.

All HQ coils are hermetically sealed. Units are laboratory adjusted to 1% tolerance.



UNCASED HIGH Q TOROIDS

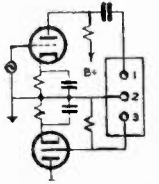
We can supply any of the Toroids listed without case. Deduct \$1.50. Specify type and inductance value when ordering.

SPECIAL TOROIDS

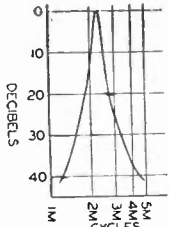
Sizes other than those shown in our stock list can be supplied on special order at price of next highest value.

*This value of D.C. will drop the coil inductance 5%. Values of D.C. below this will show proportionately (linear) less inductance drop. For example HQA-8 will drop 1/2% in L with 6.5MA.

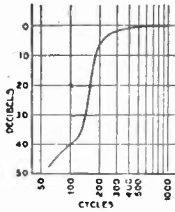
UTC INTERSTAGE FILTERS



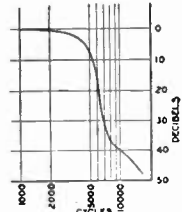
INTERSTAGE FILTER CONNECTIONS



TYPICAL BPI CURVE



TYPICAL HPI CURVE



TYPICAL LPI CURVE

Case for interstage filters same as HQB illustrated on preceding page.

Interstage filters lend themselves to effecting gain simultaneously with their frequency discrimination. UTC manufactures three basic types of filters for such application with a nominal impedance of 10,000 ohms to be used in a circuit as illustrated.

Type BPI (band pass), LPI (low pass), and HPI (high pass) interstage filters are not carried in stock, but are available from standardized designs and components. They are available for any frequency from 200 to 10,000 cycles. Order by type followed by frequency as: LPI-2500, which designates a low pass filter—2500 cycles cutoff frequency. For low impedance circuits (500/600 ohms), order as RPL, LPL or HPL in similar manner. Output of BPL is to grid; LPL and HPL to 500/600 ohms.

All interstage filters are housed in hermetically sealed cases identical in dimensions to HQB, but cutout is $\frac{5}{8}$ x 2 inches. Dual alloy shielding reduces hum pickup to 150 MV per gauss at 60 cycles.

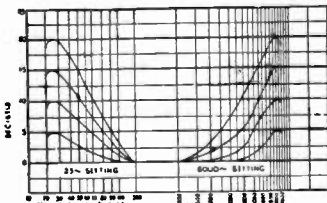
BPI units have 2:1 gain. They are sharply peaked, having approximately 2 DB attenuation at plus or minus 3% from mean frequency and attenuations of approximately 40 DB per octave. They are adjusted to zero phase shift at mean frequency.

HPI units have loss of less than 6 DB at cutoff frequency. At .67 cutoff frequency the attenuation is 35 DB and at .5 cutoff frequency, 40 DB.

LPI units have loss of less than 6 DB at cutoff frequency. At 1.5 cutoff frequency the attenuation is 35 DB and at twice cutoff frequency, 40 DB.

BROADCAST AND RECORDING EQUALIZERS AND FILTERS

500/600 ohms



TYPICAL CURVES OBTAINABLE WITH 3A OR 3AX EQUALIZER

3AX UNIVERSAL EQUALIZER

The universal characteristics of the UTC 3AX equalizer have made it the most popular item for broadcast and recording equalization. This unique unit, with which most communications engineers are already familiar, is an accurately calibrated, quickly adjustable, combined low and high frequency equalizer. The low frequency controls include a switch for adjusting the maximum equalization frequency to 25, 50, or 100 cycles and a calibrated T-pad for exact adjustment of the amount of equalization. The high frequency portion of this unit includes a switch to set maximum equalization point at 4000, 6000, 8000, 10,000 or 15,000 cycles, and a similar calibrated control reading directly in DB. Equalization up to 25 DB available at any frequency selected.

Through a unique arrangement of compensating pads, changes in adjustment of the 3AX equalizer do not affect the insertion loss (50 DB). This permits rapid changes in tone color, with negligible change in volume. Where rapid change-over is required in service from one line to another, or from recording to play back, it is merely necessary to predetermine the required setting. The actual adjustment of the controls can be taken care of almost instantaneously. The construction is of the depressed chassis, etched panel, rack mount type. Thoroughly shielded against inductive pickup with UTC Trialloy Shielding. Dimensions of panel $3\frac{1}{2}$ x 19". Depth $7\frac{1}{2}$ ". Weight 15 lbs.

3A UNIVERSAL EQUALIZER

The 3A equalizer is identical to the 3AX described above, except that it does not incorporate the compensating pads for constant insertion loss. The insertion loss is roughly proportional to the amount of equalization employed. All other characteristics identical with the 3AX unit, this item weighs 10 lbs.

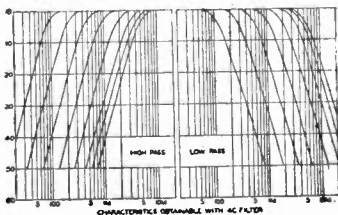
4C SOUND EFFECTS FILTER

The use of filters to obtain unusual sound effects is now finding wide application in broadcast technique. The Model 4C Filter was originally developed for one of the large broadcast chains, and is now used extensively by most broadcast stations. Two controls are provided on the $5\frac{1}{4}$ x 19" panel, which is similar in appearance to the 3AX unit. The weight of the 4C unit is 20 lbs.

The low pass switch can be set for cutoff frequencies of 100, 250, 500, 1000, 2000, 3000, 4000, or 5000 cycles. The high pass switch has identical frequency points. The great number of cutoff frequencies provides for a wide latitude of tone control. If desired, though not normally necessary, external potentiometers may be inserted in the circuit for attenuation control.

5A BOOST-DROP EQUALIZER

The 5A equalizer, ideal for recording and reproduction, incorporates the 3A equalizer with control for drooping highs and lows where required. Up to 15 DB attenuation can be effected at 25, 50, or 100 cycles for the low end and 4000, 6000, 8000, or 10,000 cycles for the high end.

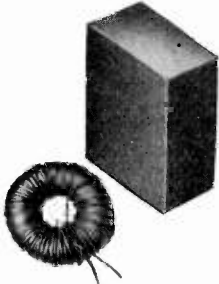
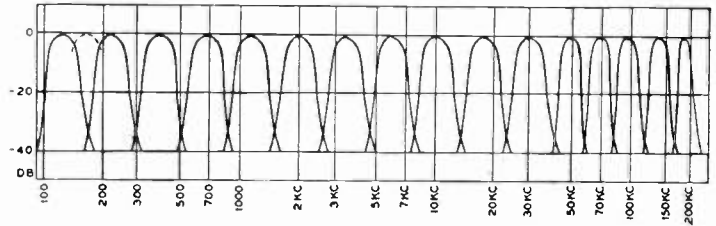


CHARACTERISTICS OBTAINABLE WITH 4C FILTER

UTC CUSTOM TOROID COIL FILTERS

UTC manufactures permalloy dust toroid filters for all applications. The stability of the inductors plus precision adjustment makes these filters ideal for all critical applications in the audio, carrier, and super-sonic fields.

The curve illustrated shows a group of filters affording sixteen separate bands in the audio and supersonic region with 35 DB attenuation at the cross-over points. These have also been supplied spaced further apart (40 DB cross-over), with intermediate bands, permitting flat top band pass action for any selected range from 100 cycles to 200 KC.

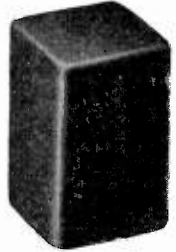


SUB-OUNCER PERMALLOY DUST TOROIDS

Weight 1/2 ounce uncased .8 ounce hermetically sealed. These miniaturized HQE coils have characteristics similar to our standard HQA, C, and D coils with little reduction in Q considering minute size.

SUB-OUNCER TOROID FILTERS

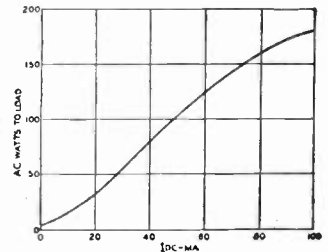
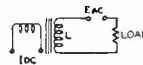
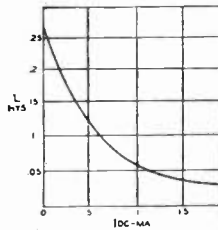
Filters employing SUB-OUNCER toroids and special condensers represent the optimum in stable miniaturized filter performance. The unit shown... 1 x 1 x 2... employs 5 coils and 6 condensers for a complete band pass filter... weight 6 ounces.



UTC SATURABLE REACTORS

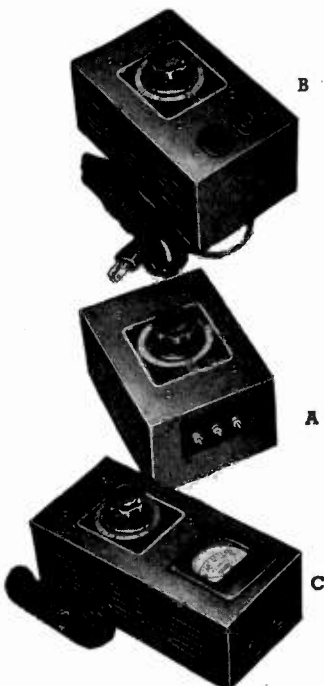
Saturable reactors are used extensively for both power control and phase control. The left curve is that of a small (1" cube) sensitive unit indicating the variation of inductance with saturating DC. The right curve is that of a moderate size power control reactor indicating power to the load with saturating DC.

These units are supplied to customer's specifications only... for all applications.



UTC VARITRAN CONTROL UNITS

For controlling: Rectifier output... motors... heaters... lights... line voltage



The UTC Varitran is a simple autotransformer whose turns are arranged on one layer with the insulation removed so that every exposed turn may be used as a tap of the winding. A special non-fusing contact can be moved to any position on the winding, permitting the exact voltage desired to be obtained. The regulation and efficiency are excellent and no distortion of wave form occurs. The output voltage is independent of load. In addition to its many laboratory uses, the Varitran is widely employed for controlling electric ovens, fans, soldering irons, furnaces and heaters, for photographic and enlarging lighting control, for life tests of lamps and for dimming illumination.

VARITRAN RATINGS

Standard Varitrans are designed for 115 or 230 volt service. The respective output voltages are 0-130 and 0-260 volts. The Varitran autotransformer current and wattage rating is based at 115 volts (115V. models). As the voltage is reduced, the wattage output is reduced correspondingly. The maximum current can be taken at any point from 0 to 20 volts and from 95 to 130 volts. Between 20 and 95 volts the current capacity tapers off from the two ends to approximately 60% of the rated maximum current at the 65 volt point. The mounting facilities are at both top and bottom of each unit to assure ease of mounting on panel, chassis or for laboratory bench service.

| Type | Input Voltage | Output Voltage | Watts | Max. Amps. | Figure | Approx. Dimensions | Weight |
|-------|---------------|----------------|-------|------------|--------|-----------------------|--------|
| V-0 | 115 volts | 0-130 | 230 | 2 | A | 4 1/4 x 6 1/2 x 4 1/2 | 10 |
| V-0-B | 230 volts | 0-260 | 230 | 1 | A | 4 1/4 x 6 1/2 x 4 1/2 | 11 |
| V-1 | 115 volts | 0-130 | 570 | 5 | B | 4 1/4 x 8 x 3 1/2 | 12 |
| V-1-M | 115 volts | 0-130 | 570 | 5 | C | 4 1/4 x 9 1/2 x 3 1/2 | 14 |
| V-2 | 115 volts | 0-130 | 570 | 5 | A | 4 1/4 x 7 1/2 x 3 1/2 | 13 |
| V-2-B | 230 volts | 0-260 | 570 | 2.5 | A | 4 1/4 x 7 1/2 x 3 1/2 | 16 |
| V-3 | 115 volts | 0-130 | 850 | 7.5 | A | 4 1/4 x 7 1/2 x 3 1/2 | 16 |
| V-3-B | 230 volts | 0-260 | 850 | 3.75 | A | 5 1/2 x 7 1/2 x 5 1/2 | 20 |
| V-4 | 115 volts | 0-130 | 1250 | 11 | A | 6 1/4 x 10 3/4 x 5 | 34 |
| V-4-B | 230 volts | 0-260 | 1250 | 5.5 | A | 6 1/4 x 10 3/4 x 5 | 38 |



UTC HIPERM ALLOY TRANSFORMERS

The UTC Hiperm alloy audio and power transformers are specifically designed for portable and compact service. While light in weight, neither dependability nor fidelity has been sacrificed. The frequency characteristic of the Hiperm alloy audio units is uniform from 30 to 20,000 cycles. They incorporate a Hiperm-alloy nickel iron core and hum balanced coil structure. The rugged die cast case is of high conductivity alloy finished in grey, arranged for mounting with the terminals either up or down. DC in Prim'y shown is maximum unbalanced.



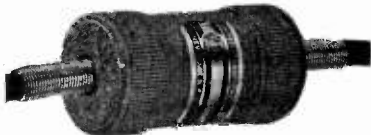
TYPE H-1 CASE

Length 2 3/8"
 Width 1 1/8"
 Height 3 1/8"
 Mounting 1 3/8" x 1 13/16"
 Screws 6-32
 Cutout 1 13/16" dia.
 Unit Weight 2 lbs.



TYPE H-2 CASE

Length 3 3/8"
 Width 2 1/8"
 Height 3 1/2"
 Mounting 2" x 2 3/4"
 Screws 8-32
 Cutout 2 1/8" dia.
 Unit Weight 5 lbs.



UTC MICROPHONE CABLE TRANSFORMERS



UTC MIKE/HIGH IMPEDANCE ADAPTOR

LOW IMPEDANCE TO GRID AND MIXING TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | DC in Prim'y | Case No. |
|----------|---|--|--|-------------|------------|--------------|----------|
| HA-100 | Low impedance mike, pickup, or multiple line to grid | 50, 125/150, 200, 250, 333, 500/600 ohms | 60,000 ohms in two sections | 30-20,000 | +15 DB | .5 MA | H-1 |
| HA-100X | Same as above but with tri-alloy internal shield to effect very low hum pickup | as above | as above | | | | H-1 |
| HA-101 | Low impedance mike, pickup, or multiple line to push pull grids | 50, 125/150, 200, 250, 333, 500/600 ohms | 120,000 ohms overall, in two sections | 30-20,000 | +15 DB | .5 MA | H-1 |
| HA-101X | As above but with tri-alloy internal shield to effect very low hum pickup | as above | 80,000 ohms overall, in two sections | | | | H-1 |
| HA-103A | Low impedance mike, pickup, or parallel mixer to grid | 2.5, 5, 10, 15, 22, 30, 38, 60 ohms | 60,000 ohms in two sections | 30-20,000 | +15 DB | .5 MA | H-1 |
| HA-108 | Mixing, low impedance mike, pickup, or multiple line | 50, 125/150, 200, 250, 333, 500/600 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 30-20,000 | +15 DB | .5 MA | H-1 |
| HA-108X | Same as above but with tri-alloy internal shield to effect very low hum pickup | as above | as above | | | | H-1 |
| HA-130X | Three isolated lines or pads to one or two grids with tri-alloy internal shield | 30, 50, 200, 250 ohms each primary | 60,000 ohms overall, in two sections | 30-20,000 | +15 DB | .5 MA | H-1 |

INTERSTAGE AUDIO TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | DC in Prim'y | Case No. |
|----------|---|----------------------------|--------------------------------------|-------------|------------|--------------|----------|
| HA-104 | Single plate to P.P. grids like 2A3, 59, 6L6 (split secondary) | 15,000 ohms | 95,000 ohms 1.25:1 | 30-20,000 | +17 DB | 0 MA | H-1 |
| HA-105 | Single plate to single grid (split secondary) | 15,000 ohms | 60,000 ohms 2:1 turn ratio | 30-20,000 | +17 DB | 0 | H-1 |
| HA-106 | Single plate to push pull grids (split secondary) | 15,000 ohms | 135,000 ohms 3:1 ratio overall | 30-20,000 | +17 DB | 0 | H-1 |
| HA-107 | Push pull plates to push pull grids (split primary and secondary) | 30,000 ohms plate to plate | 80,000 ohms 1.6:1 turn ratio overall | 30-20,000 | +25 DB | .25 MA | H-2 |
| HA-137 | Push pull plates to push pull grids (split primary and secondary) | 30,000 ohms plate to plate | 68,000 ohms 1.5:1 turn ratio overall | 30-20,000 | +17 DB | 0 | H-1 |

PLATE AND CRYSTAL TO LINE TRANSFORMERS

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | DC in Primary | Case No. |
|----------|--|--------------------------------|--|--|------------|---------------|----------|
| HA-111 | Crystal microphone or pickup, to multiple line | 100,000 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 30-20,000 measured with resistive source | +4 DB | 0 | H-1 |
| HA-113 | Single plate to multiple line | 15,000 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 30-20,000 | +18 DB | 0 MA | H-1 |
| HA-133 | Single plate to multiple line (D.C. in Pri.) | 15,000 ohms | 50, 125/150, 200, 250, 333, 500/600 ohms | 30-20,000 | +18 DB | 8 MA | H-1 |
| HA-114 | Push pull low level plates to multiple line | 30,000 ohms plate to plate | 50, 125/150, 200, 250, 333, 500/600 ohms | 30-20,000 | +20 DB | 1 MA | H-1 |
| HA-134 | Push pull 89's or 2A3's to line | 5,000/9400 ohms plate to plate | 50, 125/150, 200, 250, 333, 500/600 ohms | 30-20,000 | +32 DB | 5 MA | H-2 |
| HA-135 | Push pull 2A3's to voice coil | 5,000 ohms plate to plate | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 30-20,000 | +36 DB | 5 MA | H-2 |

POWER TRANSFORMERS AND CHOKES

| Type No. | Application | Primary Voltage 50/60 cycles | High Voltage | Filament Windings | Case No. |
|----------|---|------------------------------|-----------------|-----------------------------------|----------|
| HP-122 | Pre-amp. power supply using 84 rectifier | 115 | 220-0-220 15 MA | 6.3 V.C.T.-.5A 6.3 V.C.T.-1.2A | H-1 |
| HP-123 | Pre-amp. or tuner power supply using 84 rectifier | 115 | 275-0-275 35 MA | 6.3 V.C.T.-.5A 6.3 V.C.T.-2A | H-2 |

| Type No. | Application | Inductance | DC Current | DC Resistance | Insulation Test Voltage | Case No. |
|----------|-----------------------------------|----------------------------------|----------------|------------------------|-------------------------|----------|
| HC-115 | Parallel feed and filter choke | Series-400 hy Parallel-100 hy | 2.5 MA 5 MA | 7000 ohms 1750 ohms | 1500 | H-1 |
| HC-116 | Parallel feed and filter choke | Series-600 hy Parallel-150 hy | 8 MA 16 MA | 4000 ohms 1000 ohms | 1500 | H-2 |
| HC-117 | Filter choke with hum bucking tap | 60 hy | 15 MA | 3000 ohms | 1500 | H-1 |

UTC MICROPHONE CABLE TRANSFORMERS

UTC cable transformers are designed to be inserted in the cable circuit, and are ruggedly constructed to withstand mechanical abuse. The cable connections (supplied less cable) are made through spring strain relief to terminal boards inside the end caps. 1 1/2" diameter ... 2 1/2" long ... 1/2 lb.

Type MC-1—primary tapped 30/50 and 200/250 ohms, secondary to grid, standard fidelity.
 Type MC-2—primary tapped 30/50 and 200/250 ohms, secondary to grid, high fidelity.

UTC MIKE/HIGH IMPEDANCE ADAPTOR is designed to match low impedance sources to an amplifier having high impedance input. Will match any source from 50 to 600 ohms, effecting a 15:1 step up ratio (225:1 impedance ratio). The plug on MA-1 goes into jack on amplifier ... the plug from mike goes into jack on MA-1. Flat 40-10,000 cycles. Rugged die casting 7/8 x 1 1/8 x 2 1/8.

Type MA-1—primary 50 to 500 ohms ... 15:1 ratio ... jack input ... plug output.

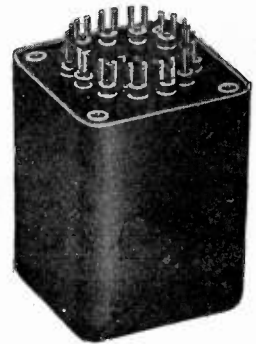


ULTRA COMPACT AUDIO UNITS

The UTC Ultra compact audio units are small and light in weight, ideally suited to remote amplifier and similar compact equipment. High fidelity is obtainable in all individual units, the frequency response being ± 2 DB from 30 to 20,000 cycles.

All units except those carrying DC in Primary employ a true hum balancing coil structure, which combined with a high conductivity outer case, effects good inductive shielding. The die-cast (Type A) case provides for top or bottom mounting. Maximum operating level $+ 10$ DB.

| Type No. | Application | Primary Impedance | Secondary Impedance | ± 2 db from |
|----------|--|---|---|--|
| A-10 | Low impedance mike, pickup, or multiple line to grid | 50, 125/150, 200/250, 333, 500/600 ohms | 50,000 ohms | 30-20,000 |
| A-11 | Low impedance mike, pickup, or line to 1 or 2 grids | 50, 200, 500 | 50,000 ohms | 50-20,000 multiple alloy shield for extremely low hum pickup |
| A-12 | Low impedance mike, pickup, or multiple line to push pull grids | 50, 125/150, 200/250, 333, 500/600 ohms | 80,000 ohms overall, in two sections | 30-20,000 |
| A-14 | Dynamic microphone to one or two grids | 30 ohms | 50,000 ohms overall, in two sections | 30-20,000 |
| A-16 | Single plate to single grid | 15,000 ohms | 60,000 ohms, 2:1 turn ratio | 30-20,000 |
| A-18 | Single plate to two grids. Split primary, can also be used for P.P. plates | 15,000 ohms | 80,000 ohms overall, 2.3:1 turn ratio overall | 30-20,000 |
| A-19 | Single plate to two grids 8 MA unbalanced D.C. | 15,000 ohms | 80,000 ohms overall, 2.3:1 turn ratio overall | 50-20,000 |
| A-20 | Mixing, low impedance mike, pickup, or multiple line to multiple line | 50, 125/150, 200/250, 333, 500/600 ohms | 50, 125/150, 200/250, 333, 500/600 ohms | 30-20,000 |
| A-21 | Mixing, low impedance mike, pickup or line to line | 50, 200/250, 500/600 | 50, 200/250, 500/600 | 50-20,000 multiple alloy shield for extremely low hum pickup |
| A-24 | Single plate to multiple line | 15,000 ohms | 50, 125/150, 200/250, 333, 500/600 ohms | 30-20,000 |
| A-25 | Single plate to multiple line 8 MA unbalanced D.C. | 15,000 ohms | 50, 125/150, 200/250, 333, 500/600 ohms | 50-20,000 |
| A-26 | Push pull low level plates to multiple line | 30,000 ohms plate to plate | 50, 125/150, 200/250, 333, 500/600 ohms | 30-20,000 |
| A-27 | Crystal microphone to multiple line | 100,000 ohms | 50, 125/150, 200/250, 333, 500/600 ohms | 30-20,000 measured with non-inductive source |
| A-30 | Audio choke, 300 henrys @ 2 MA 6000 ohms D.C., 75 henrys @ 4 MA 1500 ohms D.C., inductance with no D.C. 450 henrys | | | |
| A-31 | ORIENTATION MOUNT. Type A-31 adaptor is a unique facility which permits rotating any ultra compact unit after installation. 360 degrees in the horizontal plane and 40 degrees in the vertical plane can be effected. Consists of die-cast cap which fastens to terminal board side of A unit and incorporates lockable swivel joint which requires one $\frac{3}{4}$ hole for mounting. | | | |



TYPE A CASE

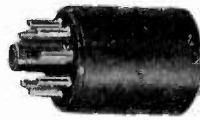
Length $1\frac{1}{2}$ "
 Width $1\frac{1}{2}$ "
 Height 2"
 Mounting $1\frac{1}{2}$ " sq.
 Screws 4-40
 Cutout $1\frac{3}{8}$ " dia.
 Unit Weight $\frac{1}{2}$ lb.

OUNCER AUDIO UNITS



OUNCER CASE

Diameter $\frac{7}{8}$ "
 Height $1\frac{1}{8}$ "
 Mounting $1\frac{1}{8}$ "
 Screws 2-56



PLUG-IN (P) CASE

Diameter $1\frac{3}{32}$ "
 Height $1\frac{15}{32}$ "
 Socket Standard Octal

UTC OUNCER components represent the acme in compact quality transformers. These units, which weigh one ounce, are fully impregnated and sealed in a drawn aluminum housing $\frac{7}{8}$ " diameter mounting opposite terminal board.

Ouncer items are ideal for portable broadcast, hearing aid, aircraft, concealed service, and similar applications. High fidelity characteristics are provided, uniform from 40 to 15,000 cycles, except for 0-14, 0-15, and units carrying DC which are intended for voice frequencies from 150 to 4,000 cycles. Maximum operating level 0DB.

"P" series units are identical to the UTC OUNCER units but are sealed in bakelite housings with plug in base to fit standard octal socket. While of submersion proof design, these units weigh but two ounces. Oversize pins in the base make it impossible to dislodge these units from their sockets, even when used upside down in portable equipment.

| OUNCER Type No. | Application | Pri. Imp. | Sec. Imp. | TYPE NO. |
|-----------------|---|----------------------------|----------------------|----------|
| 0-1 | Mike, pickup or line to 1 grid | 50, 200/250, 500/600 | 50,000 | P-1 |
| 0-2 | Mike, pickup or line to 2 grids | 50, 200/250, 500/600 | 50,000 | P-2 |
| 0-3 | Dynamic mike to 1 grid | 7.5/30 | 50,000 | P-3 |
| 0-4 | Single plate to 1 grid | 15,000 | 60,000 | P-4 |
| 0-5 | Single plate to 1 grid, D.C. in Pri. | 15,000 | 60,000 | P-5 |
| 0-6 | Single plate to 2 grids | 15,000 | 95,000 | P-6 |
| 0-7 | Single plate to 2 grids, D.C. in Pri. | 15,000 | 95,000 | P-7 |
| 0-8 | Single plate to line | 15,000 | 50, 200/250, 500/600 | P-8 |
| 0-9 | Single plate to line, D.C. in Pri. | 15,000 | 50, 200/250, 500/600 | P-9 |
| 0-10 | Push pull plates to line | 30,000 ohms plate to plate | 50, 200/250, 500/600 | P-10 |
| 0-11 | Crystal mike or pick-up to line | 50,000 | 50, 200/250, 500/600 | P-11 |
| 0-12 | Mixing and matching | 50, 200/250 | 50, 200/250, 500/600 | P-12 |
| 0-13 | Reactor, 200 Hys.—no D.C.; 50 Hys.—2MA. D.C., 6000 ohms | | | P-13 |
| 0-14 | 50:1 mike or line to 1 grid | 200 | $\frac{1}{4}$ megohm | P-14 |
| 0-15 | 10:1 single plate to 1 grid | 15,000 | 1 megohm | P-15 |

SUBOUNCER UNITS

FOR HEARING AIDS... VEST POCKET RADIOS... MIDGET DEVICES

UTC Sub-Ouncer units weigh only $\frac{1}{3}$ ounce. Through unique construction, however, these miniature units have performance and dependability characteristics far superior to any other comparable items. The coil is uniform layer wound of Formex wire... On a molded nylon bobbin... insulation is of cellulose acetate... leads mechanically anchored... core material Hiperm-alloy... entire unit triple (waterproof) sealed. The frequency response of these standard items is ± 3 DB from 200 to 5,000 cycles.

| Type | Application | Level | Pri. Imp. | D.C. in Pri. | Sec. Imp. |
|-------|------------------------|-----------|------------------|------------------|-------------------|
| SO-1* | Input | + 4 V.U. | 200 50 | 0 | 250,000 62,600 |
| SO-2 | Interstage/3:1 | + 4 V.U. | 10,000 | 0 | 90,000 |
| SO-3* | Plate to Line | + 23 V.U. | 10,000 25,000 | 3 ml. 1.5 ml. | 200 600 |
| SO-4 | Output | + 20 V.U. | 30,000 | 1.0 ml. | 50 |
| SO-5 | Reactor 50 HY at 1 ml. | D.C. | 3000 ohms | D.C. Res. | |

* Impedance ratio fixed. Can be employed with any primary impedance between values shown.



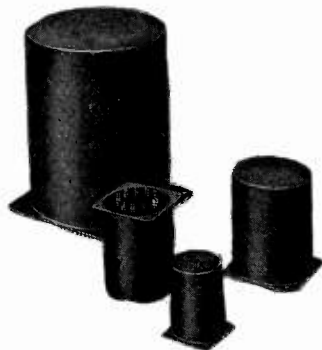
SUB-OUNCER UNIT

Dimensions $\frac{9}{16}$ " x $\frac{3}{8}$ " x $\frac{7}{8}$ "
 Weight $\frac{1}{3}$ oz.

(Refer to Page N-37 for UTC Prices)

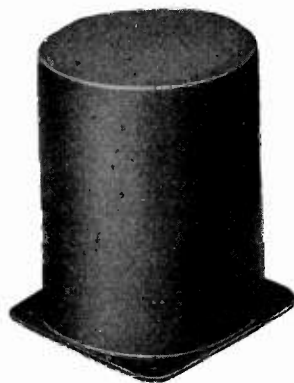


UTC COMMERCIAL GRADE COMPONENTS



The commercial grade series of transformers incorporate conservative design and rugged construction to assure dependability under continuous service operation in industrial and commercial grade communication equipment. These units are mounted in uniform drawn cases finished in light grey enamel, and intended for chassis mounting. All items are poured with special sealing compound in addition to vacuum impregnation of coil structures. The CG line was developed to replace our very popular PA series in a more rugged construction, with professional appearance. Type numbers are identical with the PA units except for the prefix "CG".

CG-134, 135 and 136 are of the hum-bucking type to assure low hum pick-up. All audio components are linear. $\pm 1\frac{1}{2}$ DB from 60 to 8,500 cycles (no unbalanced D.C.). Parallel feed low level interstage units with 50,000 ohms and .25 mfd. 200 ohm windings on input transformers are balanced and may be used for 250 ohm circuits.



INPUT, INTERSTAGE, MIXING AND LOW LEVEL OUTPUT TRANSFORMERS

(200 ohm windings are balanced and can be used for 250 ohms)

| Type No. | Application | Primary Impedance Ohms | Secondary Impedance Ohms | Case No. |
|----------|---|------------------------|--|----------|
| CG-131 | 1 plate to 1 grid | 15,000 | 135,000 3:1 ratio | RC-50 |
| CG-132 | 1 plate to 2 grids | 15,000 | 135,000 centertapped 3:1 ratio overall | RC-62 |
| CG-133 | 2 plates to 2 grids | 30,000 P to P | 80,000 overall 1.6:1 ratio overall | RC-75 |
| CG-134 | Line to 1 grid hum-bucking | 50, 200, 500 | 80,000 | RC-50 |
| CG-135 | Line to 2 grids hum-bucking | 50, 200, 500 | 120,000 overall | RC-50 |
| CG-235 | Line to 1 or 2 grids, hum-bucking; multiple alloy shielded for low hum pickup | 50, 200, 500 ohms | 80,000 overall | RC-75 |
| CG-136 | Single plate and low impedance mike or line to 1 or 2 grids, hum-bucking | 15,000, 50, 200 | 80,000 overall | RC-62 |
| CG-233 | PP 6C5, 56, similar triodes to All 45's, 2A3's, 6L6's, etc. | 30,000 P to P | 25,000 overall 9:1 ratio overall | RC-87 |
| CG-333 | PP 6C5, 56, similar triodes to fixed bias 6L6's | 30,000 P to P | 7,500 overall 5:1 ratio overall | RC-87 |
| CG-433 | PP 45, 2A3, similar tubes to fixed bias 2 or 4 6L6's | 5,000 P to P | 1,250 overall 4:1 ratio overall | RC-100 |
| CG-137 | Mixing | 50, 200, 500 | 50, 200, 500 | RC-50 |
| CG-140 | Triode plate to line | 15,000 | 50, 200, 500 | RC-50 |
| CG-141 | PP triode plates to line | 30,000 P to P | 50, 200, 500 | RC-50 |

COMMERCIAL GRADE CASE

| Case No. | Base Dim. (Sq.) | Mounting Dim. (Sq.) | Height | Cutout Dia. | Unit Weight (Lbs.) |
|----------|-----------------|---------------------|--------|-------------|--------------------|
| RC-50 | 1 1/2" | 1-5/16" | 2 1/4" | 1 1/2" | 1/2 |
| RC-62 | 1-13/16" | 1 1/2" | 2 1/4" | 1 1/2" | 3/4 |
| RC-75 | 2-3/16" | 1-13/16" | 2 1/4" | 1 1/2" | 1 1/2 |
| RC-87 | 2-9/16" | 2-3/32" | 3 1/4" | 2" | 2 |
| RC-100 | 3" | 2 1/2" | 3 3/4" | 2" | 3 |
| RC-112 | 3-7/16" | 2-11/16" | 4 1/4" | 3" | 4 1/2 |
| RC-125 | 3 1/2" | 3" | 4 1/4" | 3" | 5 1/2 |
| RC-150 | 4 1/4" | 3-9/16" | 5 1/4" | 3" | 10 |
| RC-152 | 5 1/4" | 4 1/4" | 5 1/4" | 4" | 15 |
| RC-175 | 5 3/4" | 4 3/4" | 7 1/4" | 4" | 20 |

OUTPUT TRANSFORMERS

Secondary Impedances: 500, 200, 70, 16, 8, 5, 3, 1.5 ohms

| Type No. | Imped. P.P. Ohms. Overall | Typical Tubes | Max. Watts | Case No. |
|----------|---------------------------|-----------------------------|------------|----------|
| CG-15 | 8,000 | 45, 48, 6F6 triode | 20 | RC-100 |
| CG-16 | 3,000/5,000 | 2A3, 6A3, 48, 6B4 | 20 | RC-100 |
| CG-19 | 6,000/10,000 | 6N7, 6A6, 6F6, 89, 46, 6V6 | 20 | RC-100 |
| CG-710 | 14,000/20,000 | 41, 42, 47, 49, 6K8, 7B5 | 20 | RC-100 |
| CG-2L6 | 9,000 | 6L6's, AB1 | 30 | RC-125 |
| CG-4L6 | 3,800/4,500 | 2-6L6's, AB1 or 4-6L6's AB1 | 55 | RC-150 |

CG VARIMATCH OUTPUTS FOR P. A.

Universal units designed to match any tubes within the rated output power, to line or voice coil. Output impedance 500, 200, 50, 16, 8, 5, 3, 1.5 ohms. Primary impedance 3000, 5000, 6000, 7000, 8000, 10,000, 14,000 ohms

| Case No. | Audio Watts | Typical Tubes | Case No. |
|----------|-------------|---|----------|
| CVP-1 | 12 | 42, 43, 45, 47, 2A3, 6A6, 6F6, 25L6 | RC-100 |
| CVP-2 | 30 | 42, 45, 2A3, 6L6, 6V6, 6B5 | RC-125 |
| CVP-3 | 60 | 46's, 50's, 300A's, 6L6's, 801, 807 | RC-150 |
| CVP-4 | 125 | 800's, 801's, 807's, 4-6L6's, 845's | RC-152 |
| CVP-5 | 300 | 211, 242A's, 203A's, 838's, 4-845's, ZB-120's | RC-175 |

CG VARIMATCH LINE TO VOICE COIL TRANSFORMERS

The UTC VARIMATCH line to voice coil transformers will match any voice coil or group of voice coils to a 500 ohm line. More than 50 voice coil combinations can be obtained, as follows:

2, 4, .5, 62, 1, 1.25, 1.5, 2, 2.5, 3, 3.3, 3.8, 4, 4.5, 5, 5.5, 6, 6.25, 6.6, 7, 7.5, 8, 9, 10, 11, 12, 14, 15, 16, 18, 20, 25, 28, 30, 31, 40, 47, 50, 63, 69, 75.

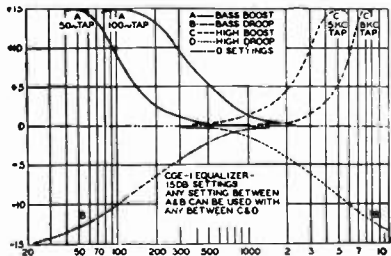
Where speakers are to be connected in groups to one transformer, it is preferable that parallel connection be used to eliminate the possibility of multiple resonance. If two speakers of different impedances are connected in parallel, the lower impedance speaker will develop greater power. If connected in series, the higher impedance speaker will develop greater power.

| Type No. | Audio Watts | Primary Impedance | Secondary Impedance | Case No. |
|----------|-------------|-------------------|---------------------|----------|
| CVL-1 | 15 | 500 ohms | 2 to 75 ohms | RC-87 |
| CVL-2 | 40 | 500 ohms | 2 to 75 ohms | RC-125 |
| CVL-3 | 75 | 500 ohms | 2 to 75 ohms | RC-150 |

CG VARIMATCH LINE AUTOFORMERS

UTC Varimatch Line Autoformer will match one to ten 500 ohm lines or CGL windings to the 500 ohm output of an audio amplifier. The CGA-10 to 12 autoformers have impedances of 500, 250, 167, 125, 100, 83, 71, 62, 50 ohms.

| Type No. | Audio Watts | Case No. |
|----------|-------------|----------|
| CVL-10 | 15 | RC-87 |
| CVL-11 | 30 | RC-125 |
| CVL-12 | 60 | RC-150 |



UNIVERSAL INTERSTAGE EQUALIZER

This new UTC unit is the ideal device for any application requiring frequency response correction. Designed to be connected between two triode audio stages or will match a high impedance (5000 to 30000 ohms) source to grid.

The CGE-1 equalizer is not a simple R-C tone control, but employs resonant circuits to permit low or high end equalization without affecting mid-frequencies. With controls in center, no equalization is effected. Moving one control to left increases bass; to right, drops bass. Moving other control to left increases highs; to right drops highs. Controls are independent so that bass may be raised and highs dropped simultaneously, etc. Amount of equalization is continuously adjustable, up to 15 DB. The insertion loss effected is equal to the combined low frequency and high frequency settings plus 6 DB, or a maximum of 36 DB. Unless existent gain of equipment to which CGE-1 is added is high, an additional audio stage may be required.

This unit comes complete so that controls with etched panel (calibrated in DB) can be mounted on a chassis (2 1/2 inch minimum) or a panel with case containing the electrical elements held by etched panel screws.

CGE-1 Panel Dim. 2 3/8 x 4. Wt. 2 Lb.

DYNAMIC NOISE SUPPRESSION INDUCTOR

Incorporates two accurate High Q coils (.8 hy. and 2.4 hy.) for use in dynamic noise suppression circuits. Excellent circuit accompanies unit. Type CG-50. RC-75 Case.



Ask for free detailed manual.



COMMERCIAL GRADE COMPONENTS

UTC CG power transformers, Varimatch units and chokes are designed to A.I.E.E. commercial standards. Ratings are conservative for continuous duty. Designs provide temperature rise less than 55 degrees C. Units are tested for breakdown at twice maximum working voltage plus 1000 volts. Plate transformers are given a surge test of 250% normal voltage at 200 cycles. All items are vacuum impregnated and sealed with special insulating compound.

The conservative design and manufacturing procedure of these units make them suitable for virtually all types of commercial equipment as well as ideally suited for quality amateur and public address service.

CG VARIMATCH MODULATION UNITS

Will match any modulator tubes to any RF load

The ever increasing number of vacuum tubes available for audio and RF applications has increased the difficulty of obtaining transformers suitable for matching to the various correct tube loads. If a standard transformer having a limited impedance range is purchased and used for a specific purpose as the "nearest thing" available, comparatively high distortion is inevitable. While a 20% mismatch caused by such an occurrence does not represent a serious loss in power, it greatly reduces the undistorted power available from a class B modulator because optimum plate load is not reflected to the tubes. The UTC Varimatch transformer eliminates this difficulty through the use of a combination of tapped windings affording an extremely wide range in impedance matching. Designs provide that for any load impedance employed, full class C plate current can be carried by secondary winding

Primary impedances from 500 to 20,000 ohms
Secondary impedances from 30,000 to 300 ohms

| Type No. | Max. Audio Watts | Max. Class C Input | Typical Modulator Tubes | Case No. |
|----------|------------------|--------------------|------------------------------------|--------------------|
| CVK-0 | 12 | 25 | 30, 49, 79, 6A8, 53, 2A3, 6B5 | RC-100 |
| CVM-1 | 30 | 60 | 6V6, 6B5, 2A3, 42, 46, 6LA, 210 | RC-125 |
| CVM-2 | 60 | 125 | 801, 6L6, 809, 4-46, T-20, 1608 | RC-150 |
| CVM-3 | 125 | 250 | 800, 807, 845, T2-20, RK-30, 35-T | RC-152 |
| CVM-4 | 300 | 600 | 50-T, 203A, 805, 838, T-55, ZB-120 | RC-175 |
| CVM-5 | 600 | 1200 | 805, HF-300, 204A, HK-354, 250TH | 7x12x9H 60 lbs. |

CG VARIMATCH DRIVER TRANSFORMERS

| Type No. | Primary | Typical Output Tubes | Case No. |
|----------|--|--|----------|
| CG-51AX | All single tubes like: 6CS, 30, 49, 53, 79, 89, 6A8, 45, 46, 2A3 | 19, 30, 49, 79, 89, 2A3, 45, 46, 6L6, 42, 59 | RC-87 |
| CG-53AX | P. P. tube like: 45, 50, 2A3, 6B5, 6L6 | 46, 4-46, 841, 210, 801, RK-18, 800, 203A, 838, 805, 50T, 830B | RC-112 |
| CG-59AX | 50, 200, 500 ohm line | 805, 838, 203A, ZB-120, 100TH, 800, 55T, HK-18 | RC-112 |
| CG-238AX | 4-2A3, 4-45, 4-50, 2-211A, 2-845 | 4-805's, 4-838's, 4-203A's, 2-204's, 2-849's, 2-HF300's, 2-HF200's, 2-250TH's, 2-450TH's | RC-150 |
| CG-512 | 50, 200, 500 ohm line | 2-250TH, 2-450TH, 2-HF300, 2-HF200, 2-204A, 2-849 | RC-150 |

VARIPOWER AUTO-FORMERS

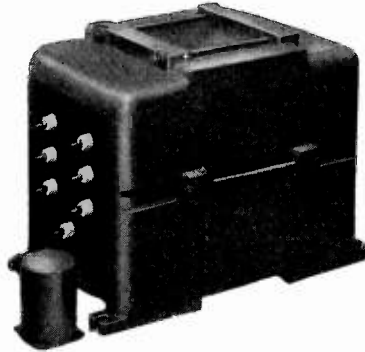
Designed for line voltage control, filament control and reduced power operation. Output voltage from 0 to 130 volts, 50/60 cycles. Vari-power units permit control of filament voltage at the tube socket to within 2 1/2% of desired value simultaneously with line voltage control and plate voltage control. Can be used to reduce or increase voltages on filament transformers. Taps at 25, 55, 75, 95, 100, 105, 110, 115, 120, 125 and 130 volts permit output voltages from 0 to 130 volts in 5 volt steps.

| Type No. | Watts Output | Case No. |
|----------|--------------|----------|
| CVA-1 | 150 | RC-112 |
| CVA-2 | 250 | RC-125 |
| CVA-3 | 500 | RC-150 |
| CVA-4 | 1000 | RC-152 |
| CVA-5 | 2000 | RC-175 |

POWER AND BIAS TRANSFORMERS

Primary 115 volts 50/60 cycles

| Type No. | High Voltage | DC MA. | Fil. 1 | Fil. 2 | Fil. 3 | Fil. 4 | Case No. | |
|----------|---|--------|--------|------------|----------------------------------|----------------------------------|----------|--------|
| CG-422 | 435-365-0-385-345 125-0-125 | 125 | 5V-3A | 5V-2A | 6.3 VCT-3A | 2.5 VCT-5A | RC-150 | |
| CG-428 | 500-0-500 80-0-80 | 250 | 5V-3A | 5V-2A | 6.3 VCT-4A | 6.3 VCT-3A, tapped 2.5 VCT-3A | RC-152 | |
| CG-429 | 600-825-0-825-600 | 250 | 5V-3A | 6.3 VCT-3A | 7.5 VCT-8A, tapped 6.3 VCT-5A | | RC-152 | |
| CG-431 | 500-400-0-400-500 80-0-80 | 500 | 5V-3A | 5V-2A | 6.3 VCT-5A | 8.3 VCT-3A | RC-175 | |
| CG-316 | Tapped for any DC voltage from 15 to 100 volts within 6% — 250 MA | | | | | | | RC-125 |
| CG-316 | Tapped for any DC voltage from 75 to 400 volts within 6% — 250 MA | | | | | | | RC-152 |



CG PLATE TRANSFORMERS

Primaries for 105, 115, 220, 230 volts, 50/60 cycles. For reduced power, secondary voltages can be reduced to half by using 220V. Pri. on 110 volts. These transformers may be used on 25 to 43 cycles if 220V Pri. is used on 110 volts. Secondary voltage is simultaneously halved

| Type No. | High Voltage | DC Voltage | DC MA | Case No. |
|----------|-------------------------------|------------------|------------|----------|
| CG-300 | 625-515-0-515-625 | 500/400 | 200 | RC-150 |
| CG-301 | 580-530-800-0-300-530-580 | 475/425/250 | 420 | RC-152 |
| CG-302 | 950-750-0-750-950 | 760/610 | 360 | RC-175 |
| CG-303 | 1500-1235-400-0-400-1235-1500 | 1250/1000 300 | 260 175 | RC-175 |

TYPE EC CASE UNITS

| Type No. | High Voltage | DC Voltage | DC MA | L | W | H | Wt. Lbs. |
|----------|---------------------------------|-------------------|-------|--------|-------|--------|----------|
| CG-304 | 1500-1235-0-1235-1500 | 1250/1000 | 800 | 15 | 8 1/2 | 10 1/2 | 100 |
| CG-305 | 2400-1750-0-1750-2400 | 2000/1500 | 300 | 10 1/2 | 4 1/2 | 6 1/2 | 50 |
| CG-306 | 2400-1750-0-1750-2400 | 2000/1500 | 500 | 15 | 8 1/2 | 10 1/2 | 100 |
| CG-307 | 3500-3000-2400-0-2400-3000-3500 | 3000/2500 2000 | 300 | 14 1/2 | 8 1/2 | 10 1/2 | 90 |
| CG-308 | 3500-3000-2400-0-2400-3000-3500 | 3000/2500 2000 | 500 | 16 1/2 | 8 1/2 | 10 1/2 | 125 |
| CG-309 | 3500-3000-2400-0-2400-3000-3500 | 3000/2500 2000 | 1000 | 21 | 10 | 13 1/2 | 185 |
| CG-310 | 4600-4050-3500-0-3500-4050-4600 | 4000/3500 3000 | 600 | 19 | 10 | 13 1/2 | 150 |
| CG-311 | 1500-1235-0-1235-1500 | 1250/1000 | 500 | 10 1/2 | 4 1/2 | 6 1/2 | 50 |
| CG-312 | 1800-1500-0-1500-1800 | 1500/1250 | 400 | 10 1/2 | 4 1/2 | 6 1/2 | 50 |

FILTER CHOKES

INDUCTANCE SHOWN IS AT RATED DC MA

| Type No. | Inductance Henrys | DC MA | DC Res. Ohms | Test Volts | Case No. |
|----------|-------------------|-------|--------------|------------|-------------------------------------|
| CG-40 | 10 | 200 | 110 | 1750 | RC-112 |
| CG-41 | 4-20 | 900 | 110 | 1750 | RC-112 |
| CG-44 | 30 | 100 | 400 | 1750 | RC-100 |
| CG-45 | 250 | 15 | 5000 | 1750 | RC-87 |
| CG-48C | 75 | 50 | 2500 | 1750 | RC-87 |
| CG-100 | 12 | 150 | 120 | 2500 | RC-125 |
| CG-102 | 12 | 250 | 105 | 3000 | RC-150 |
| CG-104 | 10 | 350 | 90 | 5000 | RC-152 |
| CG-108 | 10 | 500 | 55 | 7000 | RC-175 |
| CG-1S | 10 | 1000 | 45 | 9000 | 11 1/2 x 4 1/2 x 6 1/2 H, 60 lb. |

SWINGING INPUT CHOKES

INDUCTANCE SHOWN IS FROM 100% TO 10% OF RATED DC MA

| Type No. | Inductance Henrys | DC MA | DC Res. Ohms | Test Volts | Case No. |
|----------|-------------------|-------|--------------|------------|-------------------------------------|
| CG-101 | 5-25 | 150 | 120 | 2500 | RC-125 |
| CG-103 | 5-25 | 250 | 105 | 3000 | RC-150 |
| CG-105 | 5-25 | 350 | 90 | 5000 | RC-152 |
| CG-109 | 5-25 | 500 | 55 | 7000 | RC-175 |
| CG-1C | 5-25 | 1000 | 45 | 9000 | 11 1/2 x 4 1/2 x 6 1/2 H, 60 lb. |

FILAMENT TRANSFORMERS

Primary for 105, 115, 220, 230 volts, 50/60 cycles. These transformers may be used on 25 to 43 cycles if 220 volt primary is used on 110 volts. Secondary voltage is simultaneously reduced to half

| Type No. | Sec. Volts C. T. | Sec. Amps. | Working Voltage | Test Voltage | Case No. |
|----------|-----------------------|------------|-----------------|--------------|----------|
| CG-34 | 2 1/2 | 10 | 2500 | 6000 | RC-112 |
| CG-120 | 2 1/2 | 10 | 5000 | 17000 | RC-125 |
| CG-121 | 5 | 2.2 | 5000 | 17000 | RC-150 |
| CG-122 | 7.5/6.3 | 10 | 1500 | 4000 | RC-125 |
| CG-124 | 10 | 10 | 1500 | 4000 | RC-150 |
| CG-125 | 11/12/11 | 10 | 1500 | 4000 | RC-150 |
| CG-126 | *14/11/10 14/11/10 | 10 | 1500 | 4000 | RC-152 |

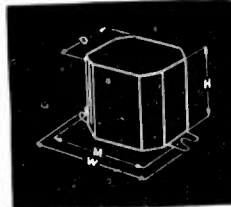


SPECIAL SERIES AUDIO TRANSFORMERS



CASE SIZES

| Type No. | H | W | D | M | Wt. Lbs. |
|----------|---------|---------|---------|-------|----------|
| G-1 | 1 1/2 | 2-13/16 | 1 3/4 | 2 3/8 | 1 |
| G-2 | 2-5/16 | 3 3/8 | 1-15/16 | 2 3/8 | 1 1/2 |
| G-3 | 2 1/2 | 3 3/8 | 2-5/32 | 3 1/4 | 2 |
| G-4 | 2-15/16 | 4 1/8 | 2-5/16 | 3 3/8 | 3 |



UTC Special Series transformers are specifically designed for amateur and popular-priced PA service. The Special units are finished in a rich, commercial type medium gray enamel. A recessed terminal strip is provided permitting above chassis or breadboard wiring in addition to standard chassis type wiring. The universal windings provided on driver, matching and output transformers assure a maximum of flexibility. Modulator output units will carry the DC current of the class C stage for any of the impedances available and will match practically any audio tubes to any RF load within the power rating of the transformer. Large components are housed in formed cases with top or bottom mounting. All units are vacuum impregnated—compound filled.

TYPICAL MODULATOR COMBINATIONS

S-18 — 12 WATTS MAX.

DRIVER TUBES: In the combinations shown below, typical suitable driver tubes are: 27, 30, 37, 49, 53, 56, 76, 79, 89, 6A6, 6C5, 6C6 triode, 6E6, 6N7.

| DRIVER Transf. | Sec. Term. | P.P. Tubes | Watts Output | MODULATOR STAGE P.P. Load | Plate Volts | Bias Volts |
|----------------|------------|----------------------|--------------|---------------------------|-------------|------------|
| S-2 | G-G | 6E6 | 1.6 | 14,000 | 250 | 27 |
| S-8 | G-G | 19, 1J6G | 2.1 | 10,000 | 135 | 0 |
| S-8 | G-G | 30 | 2.5 | 10,000 | 180 | 18 |
| S-8 | G-G | 49 | 3.5 | 12,000 | 180 | 0 |
| S-8 | G'-G' | 89 | 3.5 | 10,000 | 180 | 0 |
| S-2 | G-G | 25L6 | 4 | 4,000 | 110 | 7.5 |
| S-8 | G'-G' | 6Z7G | 4.2 | 12,000 | 180 | 0 |
| S-2 | G-G | 6Y6G | 7 | 4,000 | 135 | 13.5 |
| S-8 | G-G | 79, 6Y7G | 8 | 14,000 | 250 | 0 |
| S-8 | G'-G' | 6AC6G | 8 | 10,000 | 250 | 0 |
| S-8 | G'-G' | 53, 6A6, 6N6, 6N7 | 10 | 10,000 | 300 | 0 |
| S-2 | G-G | 2A3, 6A3, 6A5G, 6B4G | 10 | 5,000 | 325 | 750 ohms |
| S-2 | G-G | 6B5 | 10 | 10,000 | 300 | 0 |
| S-8 | G-G | 45 | 10 | 5,000 | 275 | 770 ohms |

SINGLE TUBES

| DRIVER Transf. | Sec. Term. | P.P. Tubes | Watts Output | MODULATOR STAGE P.P. Load | Plate Volts | Bias Volts |
|----------------|------------|---------------------------------------|--------------|---------------------------|-------------|-------------|
| S-1 | F-G | 43, 45, 59, 71A, 12A5, 25A6, 25A7 | | | | 4,000 ohms |
| | | 31, 46, 59, 6V6, 33 | | | | 6,000 ohms |
| | | 35, 42, 46, 47, 49, 89, 2A5, 6P6, 6B5 | | | | 7,000 ohms |
| | | 59, 89 pentode | | | | 8,000 ohms |
| | | 10, 41, 32, 6G6, 6K6 | | | | 10,000 ohms |
| | | 38, 12A7 | | | | 14,000 ohms |

S-19 — 30 WATTS MAX.

(53, 56, 6C6 triode, 6N7, may be substituted for 6C5 tubes)

| Tube or Tubes | DRIVER Transf. | Sec. Terms. | P.P. Tubes | Watts Output | P.P. Load | Plate Volts | Bias Volts |
|---------------|----------------|-------------|------------------------------|--------------|-----------|-------------|------------|
| 6C5 | S-10 | G-G | 6V6 | 13 | 8,000 | 300 | 20 |
| 6C5 | S-2 | G-G | 6B5 | 13.5 | 10,000 | 325 | 0 |
| 6C5 | S-10 | G-G | 2A3, 6A3, 45, 6A5G, 6B4G | 15 | 3,000 | 325 | 68 |
| 6C5 | S-10 | G-G | 2A5, 42, 6P6, Pentode AB | 10 | 10,000 | 375 | 340 ohms |
| 2A5 | S-8 | G-G | 2A5, 42, 6P6, triode AB | 18 | 6,000 | 350 | 38 |
| 89 | S-8 | G'-G' | Parallel 53's, 6A6, 6N6, 6N7 | 19 | 5,000 | 300 | 0 |
| 45 | S-8 | G-G | 10, 160Z | 25 | 8,000 | 425 | 50 |
| 45 | S-8 | G'-G' | 46, 59 | 25 | 6,000 | 425 | 0 |
| 45 | S-8 | G'-G' | 841 | 28 | 7,000 | 425 | 5 |
| 6C5 | S-10 | G-G | 6L6 self bias | 30 | 9,000 | 400 | 23 |

S-20 — 55 WATTS MAX.

| P.P. Tubes | DRIVER Transf. | Sec. Term. | P.P. Tubes | Watts O'd't | MODULATOR STAGE P.P. Load | Plate Volts | Tr'sf. | Bias Volts | Bias Tr'sf. |
|------------|----------------|------------|------------|-------------|---------------------------|-------------|--------|------------|-------------|
| Single 45 | S-8 | G'-G' | 46 | 40* | 5000 | 470 | S-44 | 0 | |
| 2A3 | S-9 | 1-1 | 801 | 45 | 10000 | 600 | S-45 | 75 | S-51 |
| 2A3 | S-9 | 3-3 | 1608 | 50 | 5000 | 425 | S-44 | 15 | S-51 |
| 2A3 | S-9 | 1-1 | T-20 | 50 | 8000 | 600 | S-45 | 30 | S-51 |
| Single 45 | S-8 | G'-G' | 4-46 | 56 | 3000 | 425 | S-44 | 0 | |
| 6C5 | S-10 | G-G | 6L6 AB2 | 60 | 3800 | 400 | S-59 | 25 | S-51 |
| 6C5 | S-10 | G-G | 4-6L6 | 60 | 4500 | 400 | S-40 | 23 | |
| 2A3 | S-9 | 3-3 | 809 | 60 | 5000 | 500 | S-41 | 0 | |

* Above, manufacturers' rating, but frequently employed by amateurs.

CLASS A INPUT TRANSFORMERS

| Type No. | Application | Ratio | Case |
|----------|---|-------------|------|
| S-1 | 1 plate* to 1 grid | 3 1/2:1 | G-2 |
| S-2 | 1 plate* to 2 grids | 2:1 | G-2 |
| S-3 | 1 plate* to 1 or 2 grids compact type | 2:1 | G-1 |
| S-4 | 1 plate* 162 grids wide range response | 1:1 | G-3 |
| S-5 | Single or double button mike or line to 1 grid hum-bucking type | 16:1 | G-2 |
| S-6 | Single or double button mike or line to 1 grid, compact type | 16:1 | G-1 |
| S-7 | Single plate* and carbon mike to one or two grids | 3:1 16:1 | G-2 |

* Will match tubes like 56, 6C5, 6C6 triode, 77 triode, 37 etc. Can be used with high mu triodes with loss in low frequencies.

UNIVERSAL DRIVER TRANSFORMERS

(See Modulator chart for tube types)

| Type No. | Application | Case |
|----------|--|------|
| S-8 | Single driver plate to pushpull grids | G-3 |
| S-9 | Pushpull driver plates to grids of class B tubes up to 400 watts output | G-4 |
| S-10 | Pushpull 56, 6C6 triode, 6C5, or similar plates to 45's, 2A3's or 6L6's, self of fixed bias. | G-3 |

MATCHING TRANSFORMERS

| Type No. | Application | Pri. Ohms | Sec. Ohms | Case |
|----------|---|-----------------|-------------|------|
| S-11 | Single 56, 6C6 triode, 6C5 or similar tube to line. | 15,000 | 200/500 | G-2 |
| S-12 | Line to speaker 15 watts. | 500, 2000, 4000 | 2, 4, 8, 15 | G-2 |
| S-13 | Line to speaker 30 watts. | 500, 2000, 4000 | 2, 4, 8, 15 | G-4 |

UNIVERSAL OUTPUT TRANSFORMERS TO LINE AND VOICE COIL

(Secondary Impedances: 500, 15, 8, 2 ohms)

| Type No. Max. Watts | Primary Impedance | Typical Tubes | Class | Case |
|---------------------|--|--|---------------------|------|
| S-14 10 W. | Single Tubes: 2500 ohms 4000 ohms 7000 ohms 10,000 ohms | 2A3, 6A3, 6A5, 6B4, 6L6, 6Y6, 25L6, 35L6 31, 43, 45, 48, 6V6, 12A5, 12A8 33, 47, 42, 47, 59, 89, 2A5, 6AC5, 6P6, 6K6, 6N6, 7B5 37, 38, 41, 1G5, 3C5, 6A4, 6N7 | A A A A | G-2 |
| S-15 12 W | P.P. Tubes: 4000 ohms 5000 ohms 10,000 ohms | 6Y6, 25L6 45, 2A3, 6A3, 6A5, 6B4 30, 114, 6AC5G, 6B5, 19, 49, 53, 79, 89, 6A6, 6N6, 6N7, 6Y7 | AB AB AB B | G-2 |
| S-16 30 W. | 3000 ohms 6000 ohms 9000/10000 ohms | 45, 48, 2A3, 6A3, 6A5, 6B4, 25L6 42, 2A5, 6P6 triodes 46, 59, Parallel 53, 6A6, 6N7 42, 45, 2A5, 6AC5, 6B5, 6P6, 6L6, 6V6 | AB AB B AB | G-4 |
| S-17 55 W. | 3800 ohms 4500/5000 ohms | 6L6's 4-6L6's 46, 1608, 809 | AB2 AB1 B | G-5 |

UNIVERSAL MODULATOR TRANSFORMERS

Secondary carries class C current
Any modulator tubes to any RF load. (See c chart)

| Type No. | Audio Power | Case |
|----------|-------------|------|
| S-18 | 12 watts | G-3 |
| S-19 | 30 watts | G-4 |
| S-20 | 55 watts | G-5 |
| S-21 | 110 watts | G-7 |
| S-22 | 250 watts | G-9 |



UTC REPLACEMENT TYPE COMPONENTS

VARITAP DUPLICATE REPLACEMENT POWER TRANSFORMERS (A)

| Type No. | High Voltage | Rect. Fil. | Fil. 1 | Fil. 2 | W | D | H | M | N | Wt. Lb. |
|----------|---------------------|------------|----------------------------|--------|-------|-------|-------|---------|-------|---------|
| R-1 | 325-0-325 40MA | 5V-2A | 6.3 VCT-2A or 2.5-VCT-4A | | 3 | 2 1/2 | 2 1/2 | 2 1/2 | 2 | 2 1/2 |
| R-2 | 350-0-350 70MA | 5V-3A | 6.3 VCT-2.5A or 2.5-VCT-8A | | 3 3/8 | 2 3/8 | 3 | 2-13/16 | 2 1/2 | 3 |
| R-3 | 350-0-350 95MA | 5V-3A | 6.3 VCT-4.5A or 2.5-VCT-8A | 2.5 | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 | 2 1/2 | 5 1/2 |
| R-4 | 375-0-375 120-MA | 5V-4A | 6.3 VCT-5A or 2.5-VCT-15A | 2.5 | 4 1/2 | 3 3/8 | 3 3/8 | 3 3/8 | 3 | 6 1/2 |
| R-5 | 385-0-385 180-MA | 5V-4A | 6.3 VCT-4A or 2.5-VCT-6A | 6.3 | 4 1/2 | 3 3/8 | 4 1/2 | 3 3/8 | 3 | 8 1/2 |

VARITAP FLUSH TYPE POWER TRANSFORMERS (B)

| Type No. | High Voltage | Rect. Fil. | Fil. 1 | Fil. 2 | W | D | H | M | N | Wt. Lb. |
|----------|---------------------|------------|---------------------------|--------|-------|-------|-------|---------|-------|---------|
| R-6 | 300-0-300 50MA | 5V-2A | 6.3 VCT-2A or 2.5-VCT-5A | | 3 | 2 1/2 | 3 | 2 1/2 | 2 | 2 1/2 |
| R-7 | 350-0-350 75MA | 5V-3A | 6.3 VCT-3A or 2.5-VCT-8A | 2.5 | 3 3/8 | 2 3/8 | 3 3/8 | 2-13/16 | 2 1/2 | 3 |
| R-8 | 375-0-375 100-MA | 5V-3A | 6.3 VCT-4A or 2.5-VCT-10A | 2.5 | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 | 2 1/2 | 5 1/2 |
| R-9 | 400-0-400 125-MA | 5V-3A | 6.3 VCT-4A or 2.5-VCT-10A | 6.3 | 4 1/2 | 3 3/8 | 4 | 3 3/8 | 3 | 6 1/2 |
| R-10 | 425-0-425 200-MA | 5V-3A | 6.3 VCT-5A or 2.5-VCT-12A | 6.3 | 4 1/2 | 3 3/8 | 4 1/2 | 3 3/8 | 3 | 8 1/2 |

VERTICAL SHIELDED POWER TRANSFORMERS FOR RECEIVERS AND AMPLIFIERS (C)

| Type No. | High Voltage | Rect. Fil. | Fil. 1 | Fil. 2 | W | D | H | M | N | Wt. Lb. |
|----------|---------------------|------------|---------------------------|--------|-------|-------|-------|-------|-------|---------|
| R-54 | 300-0-300 50MA | 5V-2A | 6.3 VCT-2A or 2.5-VCT-5A | | 2 1/2 | 2 1/2 | 3 3/4 | 2 | 1 1/2 | 2 1/2 |
| R-11 | 350-0-350 75MA | 5V-3A | 6.3 VCT-3A or 2.5-VCT-8A | 2.5 | 3 | 3 3/4 | 3 3/4 | 2 1/2 | 2 1/2 | 3 1/2 |
| R-12 | 375-0-375 100-MA | 5V-3A | 6.3 VCT-4A or 2.5-VCT-10A | 6.3 | 3 3/4 | 3 3/4 | 4 | 2 1/2 | 2 1/2 | 6 |
| R-13 | 425-0-425 200-MA | 5V-3A | 6.3 VCT-5A or 2.5-VCT-12A | 6.3 | 3 3/4 | 4 1/4 | 4 1/4 | 3 | 3 3/4 | 8 1/2 |

FILTER AND AUDIO CHOKES (D)

Inductance Shown is at Rated D.C.M.A.—Insulation Test: 1750 Volts

| Type No. | Induct. Hrs. | Current | Resistance Ohms | Dimensions, Ins. | W | D | H | M | Lbs. |
|----------|--------------|---------|-----------------|------------------|-------|---------|---------|-------|-------|
| R-55 | 6 | 40MA | 300 | 2 1/2 | 1 1/2 | 1 1/2 | 2 | 2 | 1/4 |
| R-14 | 8 | 40MA | 250 | 2 1/2 | 1 1/2 | 1-11/16 | 2 3/8 | 2 | 3/8 |
| R-15 | 12 | 30MA | 450 | 2 1/2 | 1 1/2 | 1-11/16 | 2 3/8 | 2 | 3/8 |
| R-16 | 15 | 30MA | 600 | 2 1/2 | 1 1/2 | 1-11/16 | 2 3/8 | 2 | 3/8 |
| R-17 | 20 | 40MA | 850 | 3-5/16 | 1 1/2 | 2 | 2-13/16 | 1 | 1 |
| R-18 | 8 | 80MA | 250 | 3-5/16 | 1 1/2 | 2 | 2-13/16 | 1 | 1 |
| R-19 | 14 | 100MA | 450 | 3 3/8 | 1 1/2 | 2-5/16 | 3 1/2 | 1 1/2 | 1 1/2 |
| R-20 | 7 | 160MA | 100 | 4 1/2 | 2 | 2 3/8 | 3-9/16 | 2 1/2 | 2 1/2 |
| R-21 | 4/20 | 160MA | 100 | 4 1/2 | 2 | 2 3/8 | 3-9/16 | 2 1/2 | 2 1/2 |
| R-22 | 120 | 5MA | 4000 | 3-5/16 | 1 1/2 | 2 | 2-13/16 | 1 | 1 |

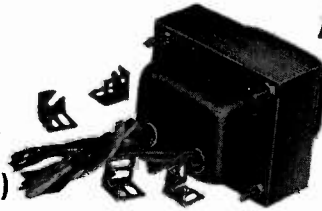
CHANNEL FRAME FILAMENT TRANSFORMERS (D)

Pri. 115 V. 50/60 Cycles—1500 V. Breakdown

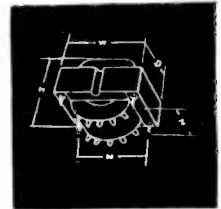
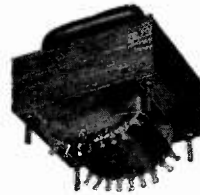
| Type No. | Secondary | W | D | H | M | Wt. Lbs. |
|----------|-----------------|--------|-------|---------|---------|----------|
| FT-1 | 2.5 V.C.T.-3A | 2 1/2 | 1 1/2 | 1-11/16 | 2 3/8 | 3/8 |
| FT-2 | 6.3 V.C.T.-1.2A | 2 1/2 | 1 1/2 | 1-11/16 | 2 3/8 | 3/8 |
| FT-3 | 2.5 V.C.T.-6A | 3-5/16 | 1 1/2 | 2 | 2-18/16 | 1 |
| FT-4 | 6.3 V.C.T.-2.5A | 3-5/16 | 1 1/2 | 2 | 2-18/16 | 1 |
| FT-5 | 2.5 V.C.T.-10A | 3 3/8 | 1 1/2 | 2-5/16 | 3 1/2 | 1 1/2 |
| FT-6 | 5 V.C.T.-3A | 3 3/8 | 1 1/2 | 2-5/16 | 3 1/2 | 1 1/2 |
| FT-7 | 7.5 V.C.T.-3A | 3 3/8 | 1 1/2 | 2-5/16 | 3 1/2 | 1 1/2 |
| FT-8 | 6.3 V.C.T.-8A | 4 1/2 | 2 1/2 | 2 3/8 | 3-9/16 | 2 1/2 |

The UTC replacement type transformers represent the culmination of years of development in this field. All units are vacuum sealed against humidity with special impregnating materials to prevent corrosion and electrolysis. Shells and brackets are finished in attractive high lustre black enamel.

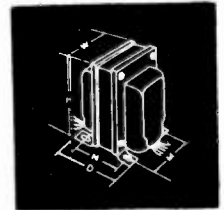
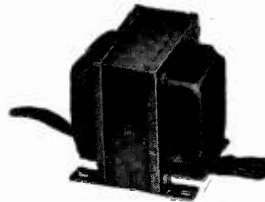
The UTC shells and universal brackets employed make possible a latitude in mounting dimensions never approached heretofore. Using Varitap coil construction a minimum number of transformers have been developed to cover any requirement in the replacement field.



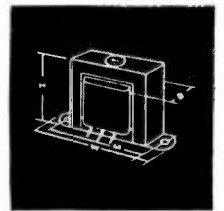
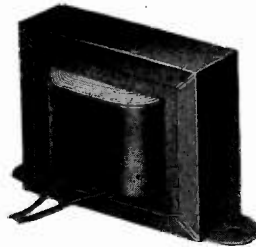
Through unique construction the five UTC VARITAP DUPLICATE replacement transformers will service as many types of radio receivers as the 15 or 20 units more customarily employed for such service. The universal feet may be used for upright or horizontal mounting, or eliminated for flush mounting.



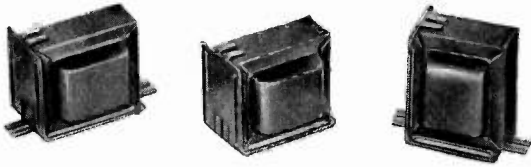
UTC FLUSH TYPE transformers are husky units designed for low temperature rise and good regulation. By employing a Varitap universal coil structure, the five units described are universal in application. The rugged solder terminals permit ease of circuit change for the experimenter.



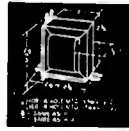
UTC VERTICAL power transformers are unusually attractive in appearance, having smooth drawn cases finished in high lustre black enamel. The Varitap coil structure assures flexibility of application.



Channel frame chokes, audios, and filament transformers are conservatively designed. Standard black enamel mounting channels are employed. Coils are tropic-sealed by vacuum-pressure method.



Varitap Duplicate audio units are extremely attractive, the double shells and universal mounting brackets being finished in high lustrous black enamel. The figure A units use the UTC universal bracket. This bracket makes possible four hole horizontal or vertical mounting and two hole channel type, horizontal or vertical mounting. The coils of these units, in addition to efficient design and mechanical shielding, are vacuum impregnated and sealed with a special compound to assure complete protection against adverse climatic conditions.



SHIELDED UNIVERSAL MOUNTING AUDIO TRANSFORMERS AND FILTER CHOKES

| Type No. | Application | Description | Fig. | Wgt. Lbs. |
|----------|----------------------------|--|------|-----------|
| R-23 | 1 plate* to 1 grid | 3½:1 ratio | A | 1 |
| R-24 | 1 plate* to 2 grids | 2:1 ratio | A | 1 |
| R-25 | 2 plates* to 2 grids | 1.5:1 stepup for class A triodes, 1.5:1 stepdown for 6L6's, 2A3's, 2A5's, etc. | A | 1¼ |
| R-26 | Driver, 1 plate to 2 grids | Single 42, 2A5, 6F8, 45, 46 | A | 1¼ |
| R-27 | 15 watt Universal Output | All tubes up to 15 watts to any voice coil from .1 to 30 ohms | A | 1¼ |
| R-28 | 35 watt Universal Output | All tubes up to 35 watts to any voice coil from .1 to 30 ohms | B | 2½ |
| R-29 | Mike to grid | Single or double button mike or line to 1 grid | A | 1¼ |
| R-30 | Filter choke | 13 Hys—250 MA—100 ohms | C | 7 |
| R-31 | Filter Choke | 10 Hys—80 MA—250 ohms | A | 2½ |
| R-32 | Filter choke | 10 Hys—150 MA—100 ohms | B | 2½ |

* Will match tubes like 27, 37, 56, 6C6 triode, 6C5. Can be used with high mu triodes with loss in low frequencies.

CHANNEL FRAME AUDIO TRANSFORMERS (D)

(See preceding page for photo)

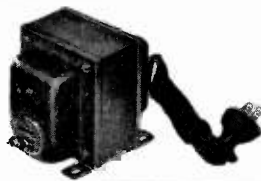
| Type No. | Application | Description | Dimen., In. | | | | Wt. Lbs. |
|----------|-----------------------------------|---|-------------|----|---------|---------|----------|
| | | | W | D | H | M | |
| R-33 | 1 plate* to 1 grid | 4:1 ratio | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-34 | 1 plate* to 2 grids | 2:1 ratio | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-35 | Mike to 1 grid | 17:1 ratio | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-90 | Intercomm. speaker to grid | 4 ohm to 40,000 ohm grid | 2% | 1% | 1% | 2% | ¼ |
| R-53 | Plate & mike to grid | 3:1 and 17:1 ratio | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-56 | 1 plate to 2 grids | 2:1 ratio | 3-5/16 | 1% | 2 | 2-13/16 | 1 |
| R-57 | 1 plate to 2 grids | 2½:1 ratio | 4% | 2 | 2% | 3-9/16 | 2½ |
| R-36 | Driver | 30, 49, etc. to class B 19, 49, 79, 89 grids | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-37 | R.F. Output | Class B 19, 49, 79, 89 plates to 3500 and 5,000 ohms | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-58 | 5 watt Universal output | Any single tube to any voice coil, .1 to 30 ohms | 2% | 1% | 1% | 2% | ¾ |
| R-38A | 6 watt Universal | Any tubes up to 6 watts to any voice coil, .1 to 30 ohms | 2% | 1% | 1% | 2% | ¾ |
| R-59 | 10 watt Universal | Any tubes up to 10 watts to any voice coil, .1 to 30 ohms | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-60 | 15 watt Universal | Any tubes up to 15 watts to any voice coil, .1 to 30 ohms | 3-5/16 | 1% | 2 | 2-13/16 | 1 |
| R-39 | 10 watt line Matching Transformer | 250, 500, 1,500 ohms to 2, 8, 15 ohms | 2% | 1% | 1-11/16 | 2% | ¾ |
| R-40 | 25 watt line Matching Transformer | 250, 500, 1,500 ohms to 2, 8, 15 ohms | 4% | 2% | 2% | 3-9/16 | 2½ |

* Will match tubes like 27, 37, 56, 6C6 triodes, 6C5. Can be used with high mu triodes with loss in low frequencies.

STEP DOWN AUTO-TRANSFORMERS

With 6 foot cord and female receptacle
220-240 to 110-120 Volts—50/60 Cycles

| Type No. | Application | Wgt. Lbs. |
|----------|---------------------|-----------|
| R-41 | 85 watt capacity | 4 |
| R-42 | 125 watt capacity | 5 |
| R-43 | 175 watt capacity | 5½ |
| R-44 | 250 watt capacity | 6½ |
| R-45 | 500 watt capacity | 12 |
| R-46 | 1200 watt capacity | 18 |
| R-64 | 2500 watts, no cord | 30 |



ISOLATION TRANSFORMERS

Ideal for isolating line noise, AC-DC sets, etc. Excellent electrostatic shielding. 2000 volt breakdown test. Six foot cord and female receptacle.

Primary 110-120 volts, 50/60 cycles—Secondary 110-120 volts

| Type No. | Rating | Wgt. Lbs. |
|----------|----------------------|-----------|
| R-72 | 40 watts | 4 |
| R-73 | 100 watts | 6 |
| R-74 | 250 watts | 12 |
| R-75 | 600 watts | 20 |
| R-76 | 1200 watts | 30 |
| R-77 | 2500 watts (no cord) | 70 |



EXPORT VOLTAGE ADAPTER

Complete with cord and plug and special locking switch providing for line voltages of 105, 115, 125, 135, 150, 210, 230, 250 volts; 42 to 60 cycles. Output voltage 115.

| Type No. | Rating | Wgt. Lbs. |
|----------|-----------|-----------|
| R-47 | 85 watts | 4½ |
| R-48 | 150 watts | 5½ |



LINE VOLTAGE ADJUSTERS WITH METER

The perfect answer to abnormal or fluctuating line voltage. Adjust switch so that meter reads at red line and you know that your equipment is working at correct voltage.

These units combine a tapped auto-transformer with a switch and meter in a compact, rugged assembly.

The nine tap switch provides for line voltages of 60 to 140 volts on 115 volt output models and 160 to 240 volts on 230 volt output models. All units are designed for 50/60 cycle service and come complete with 6 foot input cord and plug and outlet receptacle.

| Type No. | Primary Voltages | Sec. Volts | Watts | Wt. Lbs. |
|----------|---|------------|-------|----------|
| R-78 | 60, 70, 80, 90, 100, 110, 120, 130, 140 | 115 | 150 | 6 |
| R-79 | 60, 70, 80, 90, 100, 110, 120, 130, 140 | 115 | 300 | 9 |
| R-80 | 60, 70, 80, 90, 100, 110, 120, 130, 140 | 115 | 600 | 13 |
| R-81 | 60, 70, 80, 90, 100, 110, 120, 130, 140 | 115 | 1200 | 21 |
| R-83 | 160, 170, 180, 190, 200, 210, 220, 230, 240 | 230 | 150 | 6 |
| R-84 | 160, 170, 180, 190, 200, 210, 220, 230, 240 | 230 | 300 | 9 |
| R-85 | 160, 170, 180, 190, 200, 210, 220, 230, 240 | 230 | 600 | 13 |
| R-86 | 160, 170, 180, 190, 200, 210, 220, 230, 240 | 230 | 1200 | 21 |

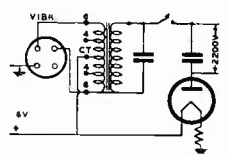
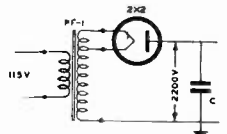
PHOTO FLASH TRANSFORMERS

Can be used for either standard (Anglo type) or trigger (Sylvania type) multiple flash bulbs. Circuit details included with transformer, or on request.

PF-1 Primary for 115 volts, 50/60 cycles. Secondaries for power supply delivering 2200 volts DC to condenser up to 100 Mfd. (30 Mfd. charges in 4 Sec.) Compound sealed in G-3 case 2½ x 2¾ x 2½ inches high. Weight 2 Lbs.

PF-2 For portable photoflash service. Primary tapped for 4 volt or 6 volt battery (full wave vibrator). Secondary for power supply delivering 2200 volts DC to condenser up to 60 Mfd. (30 Mfd. charges in 8 sec. with 6 volts or 14 Sec. with 4 volts). Compound sealed in G-3 case. Weight 2 Lbs.

PF-3 Trigger Transformer 15 KV peak



Ask for detailed bulletin

TELEVISION TRANSFORMERS

These components are quality designs, vacuum impregnated and fully compound sealed in heavy steel cases affording a high degree of shielding.

| Type No. | Application | Case | Wt. Lbs. |
|----------|---|--------|----------|
| R-91 | Horizontal oscillator (15750 cycles) | RC-50 | 1 |
| R-92 | Vertical oscillator (60 cycles) | RC-50 | 1 |
| R-93 | Vertical output, tapped for different tubes | RC-100 | 4 |
| R-94 | Horizontal output (special core), tapped for adjustment | RC-100 | 4 |
| R-95 | 2800 vac (4000 DC) 2.5V-1.5A, 6.3V-6A tapped 2.5V-2.1A, 7000 V test | RC-125 | 5 |

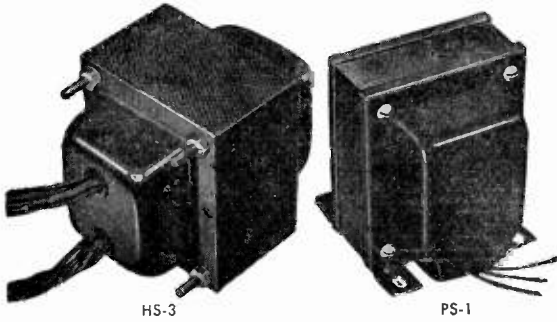
Universal Replacement

POWER TRANSFORMERS

TELEVISION TRANSFORMERS

FREED

TRANSFORMER CO., INC.



This group of units provides replacement for the majority of existing radio receivers. The design of special mounting angles permits mounting in flush, vertical and horizontal positions. Leads are R.M.A. color-coded.

| Freed No. | H.V. A.C. Volts | C.T. D.C. Ma. | Rect. | | Fil. C.T. | | Fil. C. T. | | Mounting Type | Mounting Center | | Dimensions | | | Ship. Wt. | List Price |
|-----------|-----------------|---------------|-------|-----|-----------|------|------------|------|---------------|-----------------|-------|------------|-------|-------|-----------|------------|
| | | | V. | A. | V. | A. | V. | A. | | W | D | W | D | H | | |
| F-410 A | 480 | 40 | 5 | 2 | 6.3 | 2 | | | PS-1 | 2 | 1 1/8 | 2 1/2 | 2 5/8 | 3 3/4 | 2 1/2 | \$5.85 |
| F-411 A | 650 | 40 | 5 | 2 | 2.5 | 4 | | | PS-1 | 2 | 1 1/8 | 2 1/2 | 2 3/4 | 3 3/4 | 2 3/4 | 5.85 |
| F-412 A | 590 | 50 | 5 | 2 | 6.3 | 2 | | | PS-1 | 2 | 1 1/8 | 2 1/2 | 2 7/8 | 3 3/4 | 3 | 6.30 |
| F-413 A | 650 | 50 | 5/6.3 | 2/6 | 6.3 | 2.5 | | | PS-1 | 2 | 1 1/8 | 2 1/2 | 2 7/8 | 3 3/4 | 3 | 6.90 |
| F-414 A | 700 | 50 | 5 | 2 | 2.5 | 7.5 | | | PS-1 | 2 | 1 1/8 | 2 1/2 | 2 7/8 | 3 3/4 | 3 | 7.30 |
| F-415 A | 700 | 70 | 5 | 2 | 2.5 | 9 | | | PS-1 | 2 1/4 | 1 7/8 | 2 3/4 | 3 1/8 | 3 3/4 | 4 | 7.60 |
| F-416 A | 700 | 70 | 5/6.3 | 2/6 | 6.3 | 2.5 | | | PS-1 | 2 1/4 | 2 | 2 3/4 | 3 1/4 | 3 3/4 | 4 3/8 | 7.90 |
| F-417 A | 700 | 70 | 5 | 2 | 6.3 | 2.5 | | | PS-1 | 2 | 2 3/8 | 2 3/4 | 3 3/8 | 3 3/4 | 4 3/8 | 7.55 |
| F-418 A | 700 | 90 | 5 | 2 | 2.5 | 12.5 | | | PS-1 | 2 1/2 | 2 7/8 | 3 3/8 | 3 3/4 | 3 3/4 | 5 1/4 | 8.75 |
| F-419 A | 700 | 90 | 5 | 2 | 6.3 | 3.5 | | | PS-1 | 2 1/2 | 2 1/8 | 3 3/8 | 3 1/4 | 3 3/4 | 5 | 8.30 |
| F-420 A | 700 | 120 | 5 | 3 | 2.5 | 3.5 | 2.5 | 12.5 | PS-1 | 3 | 2 1/8 | 3 3/8 | 3 1/2 | 4 1/4 | 6 1/2 | 10.20 |
| F-421 A | 700 | 120 | 5 | 3 | 6.3 | 5 | | | PS-1 | 2 1/2 | 2 7/8 | 3 3/8 | 3 5/8 | 3 3/4 | 5 1/4 | 9.10 |
| F-422 A | 750 | 150 | 5 | 3 | 6.3 | 5 | | | PS-1 | 3 | 2 3/8 | 3 3/8 | 3 3/4 | 4 1/4 | 6 1/2 | 10.90 |
| F-423 A | 750 | 150 | 5 | 3 | 6.3 | 5 | 2.5 | 5 | PS-1 | 3 | 2 3/8 | 3 3/8 | 3 3/4 | 4 1/4 | 7 | 12.00 |
| F-424 A | 800 | 200 | 5 | 4 | 6.3 | 5 | | | PS-1 | 3 | 2 1/8 | 3 3/8 | 3 7/8 | 4 1/4 | 7 3/8 | 12.45 |
| F-410 | 480 | 40 | 5 | 2 | 6.3 | 2 | | | HS-3 | 2 1/2 | 2 | 3 | 2 1/2 | 2 1/2 | 2 1/2 | 4.50 |
| F-411 | 650 | 40 | 5 | 2 | 2.5 | 4 | | | HS-3 | 2 1/2 | 2 | 3 | 2 1/2 | 2 3/4 | 3 | 4.50 |
| F-412 | 590 | 50 | 5 | 2 | 6.3 | 2 | | | HS-3 | 2 1/2 | 2 | 3 | 2 1/2 | 2 3/4 | 3 | 4.55 |
| F-413 | 650 | 50 | 5/6.3 | 2/6 | 6.3 | 2.5 | | | HS-3 | 2 1/2 | 2 | 3 | 2 1/2 | 2 3/4 | 3 | 5.10 |
| F-414 | 700 | 50 | 5 | 2 | 2.5 | 7.5 | | | HS-3 | 2 1/2 | 2 | 3 | 2 1/2 | 2 3/4 | 3 | 5.75 |
| F-415 | 700 | 70 | 5 | 2 | 2.5 | 9 | | | HS-3 | 2 3/4 | 2 1/4 | 3 3/8 | 2 3/4 | 3 | 4 | 6.00 |
| F-416 | 700 | 70 | 5/6.3 | 2/6 | 6.3 | 2.5 | | | HS-3 | 2 3/4 | 2 1/4 | 3 3/8 | 2 3/4 | 3 1/8 | 4 3/8 | 6.35 |
| F-417 | 700 | 70 | 5 | 2 | 6.3 | 2.5 | | | HS-3 | 2 1/2 | 2 | 3 | 2 | 3 3/4 | 4 3/8 | 5.75 |
| F-418 | 700 | 90 | 5 | 2 | 2.5 | 12.5 | | | HS-3 | 3 1/8 | 2 1/2 | 3 3/4 | 3 1/8 | 3 1/2 | 5 1/4 | 7.05 |
| F-419 | 700 | 90 | 5 | 2 | 6.3 | 3.5 | | | HS-3 | 3 1/8 | 2 1/2 | 3 3/4 | 3 1/8 | 3 1/4 | 5 | 6.50 |
| F-420 | 700 | 120 | 5 | 3 | 2.5 | 3.5 | 2.5 | 12.5 | HS-3 | 3 3/4 | 3 | 4 1/2 | 3 3/4 | 3 3/4 | 6 1/2 | 8.70 |
| F-421 | 700 | 120 | 5 | 3 | 6.3 | 5 | | | HS-3 | 3 1/8 | 2 1/2 | 3 3/4 | 3 3/4 | 3 3/4 | 6 1/4 | 7.15 |
| F-422 | 750 | 150 | 5 | 3 | 6.3 | 5 | | | HS-3 | 3 3/4 | 3 | 4 1/2 | 3 3/4 | 3 1/4 | 6 1/2 | 9.40 |
| F-423 | 750 | 150 | 5 | 3 | 6.3 | 5 | 2.5 | 5 | HS-3 | 3 3/4 | 3 | 4 1/2 | 3 3/4 | 3 1/2 | 7 | 10.15 |
| F-424 | 800 | 200 | 5 | 4 | 6.3 | 5 | | | HS-3 | 3 3/4 | 3 | 4 1/2 | 3 3/4 | 3 3/8 | 7 3/4 | 10.90 |

The above transformers are designed for primary operation of 115 volts 50-60 cycles. They are also available for 220 volts 60 cycles and 115 volts 25 cycles.

TELEVISION TRANSFORMERS

Used in television receivers, oscilloscopes, test equipment and high voltage, low current power supplies.

| Freed No. | HV AC Volts | DC MA. | Rect | | Fil | | Mtg. Type | Mtg. Center | | Dimensions | | | Ship Wt. | List Price |
|-----------|-------------|--------|------|------|-----|----|-----------|-------------|-------|------------|-------|-------|----------|------------|
| | | | V | A | V | A | | W | D | W | D | H | | |
| F-950 | 1700 | 4 | 2.5 | 2 | | | PS-1 | 2 | 1 1/8 | 2 1/2 | 3 | 3 3/4 | 3 | \$10.25 |
| F-951 | 2000 | 2 | 2.5 | 1.75 | 6.3 | .9 | PS-1 | 2 1/4 | 2 1/4 | 2 3/4 | 3 3/8 | 3 3/4 | 4 1/2 | 12.10 |
| F-952 | 2500 | 2 | 2.5 | 1.75 | 6.3 | .9 | PS-1 | 2 1/4 | 2 1/4 | 2 3/4 | 3 3/8 | 3 3/4 | 4 1/2 | 13.35 |

TELEVISION TRANSFORMERS

Used for a plate supply in television receivers (12 and 15 inch tube).

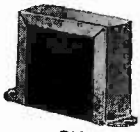
| Freed No. | HV AC Volts | CT DC MA. | Rect | | Fil | | Fil | | Mtg. Type | Mtg. Center | | Dimensions | | | Ship Wt. | List Price |
|-----------|-------------|-----------|------|---|-----|------|------|----------|-----------|-------------|-------|------------|-------|-------|----------|------------|
| | | | V | A | V | A | V | A | | W | D | W | D | H | | |
| F-960 | 775 | 225 | 5 | 3 | 6.3 | 1.75 | 6.3 | 10A | PS-1 | 3 | 3 1/8 | 3 3/8 | 4 7/8 | 4 1/4 | 11 1/2 | \$14.80 |
| F-961 | 800 | 300 | 5 | 3 | 5 | 6 | 12.6 | 10A (CT) | PS-1 | 3 1/2 | 4 | 4 7/8 | 5 3/8 | 6 3/4 | 15 1/2 | 30.75 |

TELEVISION TRANSFORMERS

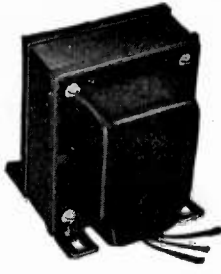
| Freed No. | Description | Mtg. Type | Mtg. Center | | Dimensions | | | Ship Wt. | List Price |
|-----------|--|-----------|-------------|---|------------|-------|-------|----------|------------|
| | | | W | D | W | D | H | | |
| F-970 | Horizontal Blocking Oscillator Transformer..... | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | \$2.75 |
| F-971 | Vertical Blocking Oscillator Transformer..... | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 2.50 |
| F-972 | Vertical Output Tr. for Magnetic Deflection CRT | FV-1 | 1 5/8 | 2 | 2 1/2 | 2 1/2 | 3 1/8 | 2 1/2 | 6.00 |
| F-973 | Horizontal Output Tr. for Electrostatic Deflection CRT | CH-1 | 1 1/2 | | 1 3/8 | 1 | 1 1/8 | 1/4 | 4.50 |



CV-2



CH-2



PS-1

OUTPUT TRANSFORMERS

REPLACEMENT and H.O.T. Series

FREED TRANSFORMER CO., INC.

BROOKLYN 27 NEW YORK

Designed for delivering the maximum audio frequency power from an amplifier to a load (voice coil or line). Good frequency response and low harmonic distortion are the quality factors of the H.O.T. output transformers. Fully enclosed shielded type with leads. All H.O.T. series transformers have multiple secondary impedances.

HEAVY OUTPUT TRANSFORMERS

| Freed No. | Application or Tube Type | Class | Ohms Impedance | | Pri. Ma. Per Side | Max. Wat. | Inv. Feed-back % | Mtg. Type | Mounting Centers | | Dimensions | | | Wt. Lbs. | List Price |
|-----------|---|---------------------------|----------------|---------------------------|-------------------|-----------|------------------|-----------|------------------|-------|------------|-------|-------|----------|------------|
| | | | Pri. | Sec. | | | | | W | D | W | D | H | | |
| F-110 | 1-6A3, 2A3, 6Y6, 6L6 | A | 2,500 | 2-4-8-500 | 80 | 8 | | PS-1 | 2 | 1 1/4 | 2 3/8 | 2 1/2 | 3 1/8 | 2 1/2 | \$5.10 |
| F-111 | 1-6L6 | A | 4,000 | 2-4-8-500 | 70 | 10 | | PS-1 | 2 | 1 1/4 | 2 3/8 | 2 1/2 | 3 1/8 | 2 1/2 | 6.05 |
| F-112 | 1-6V6, 1-7C5 | A | 5,000 | 2-4-8-500 | 50 | 6 | | PS-1 | 1 3/4 | 1 1/2 | 2 3/8 | 2 3/8 | 2 1/4 | 1 3/4 | 4.35 |
| F-113 | 1-6F6, 42, 2A5, 47 6N6, 6B5 | A | 7,000 | 2-4-8-500 | 40 | 5 | | PS-1 | 1 3/4 | 1 1/2 | 2 3/8 | 2 3/8 | 2 1/4 | 1 3/4 | 4.35 |
| F-114 | 2-6V6-7C5 PP | AB ₁ | 8,000 | 2-4-8-250-500 | 50 | 15 | 10 | PS-1 | 2 1/4 | 2 | 2 1/4 | 3 1/4 | 3 1/2 | 3 1/2 | 6.85 |
| F-115 | 2-2A3-PP, 6A3 PP, 6B4G PP, 45 PP, 2-6L6 PP, 6Y6 PP | AB A | 5,000 | 2-4-8-250-500 | 80 | 20 | | PS-1 | 2 3/4 | 2 | 2 1/4 | 3 1/4 | 3 1/2 | 3 1/2 | 6.85 |
| F-116 | 2-6L6 PP | AB ₁ | 6,000 | 2-4-8-250-500 | 80 | 30 | 10 | PS-1 | 2 1/2 | 2 3/8 | 3 1/4 | 3 1/2 | 3 3/8 | 5 | 8.00 |
| F-117 | 2-6L6 PP | AB ₁ | 3,800 | 2-4-8-250-500 | 80 | 20 | 10 | PS-1 | 2 1/2 | 2 3/8 | 3 1/4 | 3 1/2 | 3 3/8 | 5 | 8.00 |
| F-118 | 2-6L6 PP | AB ₁ | 9,000 | 2-4-8-250-500 | 60 | 30 | 10 | PS-1 | 2 1/2 | 2 3/8 | 3 1/4 | 3 1/2 | 3 3/8 | 5 | 8.00 |
| F-119 | 2-6L6 PP | AB ₂ | 6,000 | 4-8-16-250-500 | 80 | 40 | 10 | PS-1 | 2 1/2 | 2 3/8 | 3 1/4 | 3 1/2 | 3 3/8 | 5 | 8.75 |
| F-120 | 2-6L6 PP | AB ₂ | 3,800 | 4-8-16-250-500 | 110 | 50 | 10 | PS-1 | 2 1/2 | 2 3/8 | 3 1/4 | 3 1/2 | 3 3/8 | 5 1/2 | 8.75 |
| F-121 | 4-6L6 PP Par. | AB ₁ | 3,300 | 4-8-16-250-500 | 160 | 60 | 10 | PS-1 | 2 1/2 | 2 3/8 | 3 1/4 | 3 3/4 | 3 3/8 | 5 1/2 | 9.50 |
| F-122 | 4-6L6 PP Par. | AB ₁ | 3,300 | 50-125-200-250 333-500 | 160 | 60 | | PS-1 | 2 1/2 | 2 3/8 | 3 1/4 | 3 3/4 | 3 3/8 | 5 1/2 | 9.50 |
| F-123 | 4-6L6 PP Par. | AB ₂ | 1,900 | 84-100-125-166 250-500 | 220 | 100 | 10 | PS-1 | 3 | 3 1/4 | 3 3/8 | 5 | 4 5/8 | 13 1/2 | 21.90 |
| F-124 | 2-6F6-42-2A5 PP, 1-6N7, 6A6, 53 PP, 2-6N6, 6B5, 2B6, 6AC5 | AB ₂ B A | 10,000 | 4-8-15-500 | 45 | 20 | | PS-1 | 2 1/4 | 2 | 2 1/4 | 3 1/4 | 3 1/2 | 3 1/2 | 6.85 |
| F-125 | 2-2A3, 6A3, 6B4G, 2-48, 25L6 | AB A | 3,000 | 4-8-15-500 | 60 | 20 | | PS-1 | 2 3/4 | 2 | 2 1/4 | 3 1/4 | 3 1/2 | 3 1/2 | 6.05 |
| F-126 | 4-2A3, 6A3, 6B4G, 45 PP Par. | AB | 1,500 | 4-8-15-500 | 80 | 40 | | PS-1 | 2 1/4 | 2 | 2 1/4 | 3 1/4 | 3 1/2 | 3 1/2 | 5.85 |
| F-127 | 2-45, 43, 25 A6 PP, 1-6N7, 6A6, 53 PP | A B | 8,000 | 4-8-15-500 | 36 | 15 | | PS-1 | 2 | 1 1/4 | 2 3/8 | 2 1/2 | 3 1/8 | 2 1/2 | 5.85 |
| F-128 | 1-12A6-6K6-7B5 | A | 7,500 | 4-8-15-500 | 40 | 5 | | PS-1 | 1 3/4 | 1 1/4 | 2 3/8 | 2 3/8 | 2 1/4 | 1 3/4 | 4.35 |
| F-129 | 2-12A6-6K6-7B5 | A | 12,000 | 4-8-15-500 | 40 | 15 | 10 | PS-1 | 2 | 1 1/4 | 2 3/8 | 2 1/2 | 3 1/8 | 2 1/2 | 5.35 |
| F-130 | 2-807 PP | AB ₂ | 4,200 | 50-125-200-250 333-500 | 120 | 75 | | PS-1 | 3 | 3 1/4 | 3 3/8 | 5 | 4 5/8 | 13 1/2 | 21.90 |
| F-131 | 2-50 PP, 2-6F6, 42, 2A5 PP | A AB ₂ | 8,000 | 4-8-15-500 | 55 | 30 | | PS-1 | 2 3/4 | 2 | 2 1/4 | 3 1/4 | 3 1/2 | 3 1/2 | 7.30 |
| F-132 | 4-807 PP Par. | AB ₂ | 2,100 | 50-125-200-250 333-500 | 240 | 150 | | PS-1 | 3 1/2 | 3 3/8 | 4 1/8 | 4 3/4 | 5 3/8 | 14 | 27.50 |

The 500 ohm secondary is designed in such a way that it can be used with a 600 ohm line.

REPLACEMENT OUTPUT TRANSFORMERS

For coupling receiver audio output tube to speaker. These transformers are usually mounted on the loudspeaker frame.

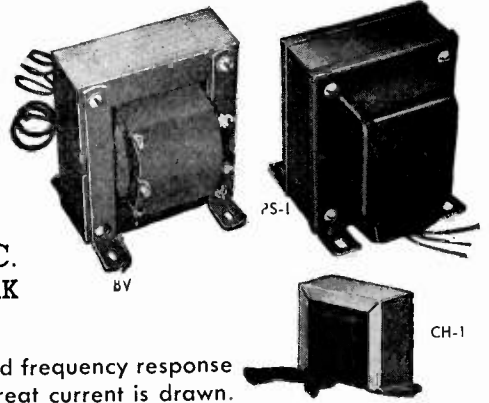
| Freed No. | Application or Tube Type | Class | Ohms Impedance | | Pri. MA Per Side | Max. Wat. | Mtg. Type | Mtg. Centers | Dimensions | | | Wt. Lbs. | List Price |
|-----------|---|-------------|------------------|------|------------------|-----------|-----------|--------------|------------|-------|-------|----------|------------|
| | | | Pri. | Sec. | | | | | W | D | H | | |
| F-314 | 1-25L6, 48 | A | 1,500 or 2,000 | 3.2 | 55 | 5 | CH-2 | 2" | 2 3/8 | 1 5/8 | 1 1/8 | 1/2 | \$1.40 |
| F-315 | 1-43, 45, 71-A, 12A5, 1-25A6 | A | 4,000 | 3.2 | 40 | 5 | CH-2 | 2" | 2 3/8 | 1 5/8 | 1 1/8 | 1/2 | 1.40 |
| F-316 | 1-2A5, 6A4, 6F6, 41, 1-42, 47, 89 | A | 7,000 | 3.2 | 40 | 5 | CH-2 | 2" | 2 3/8 | 1 5/8 | 1 1/8 | 1/2 | 1.40 |
| F-317 | 1-3Q5, 3S4, 1Q5, 1C5, 1-1S4, 3A4 | A | 8,000 | 3.2 | 10 | 5 | CH-2 | 2" | 2 3/8 | 1 5/8 | 1 1/8 | 1/2 | 1.45 |
| F-318 | 1-1D8, 1F5, 1T5, 38 | A | 14,000 or 16,000 | 3.2 | 10 | 5 | CH-2 | 2" | 2 3/8 | 1 5/8 | 1 1/8 | 1/2 | 1.45 |
| F-319 | 1-3Q4, 1-19PP, 1J6GPP, 1G6G, 2-30PP, 49PP | A B B | 10,000 CT | 3.2 | 15 | 8 | CH-2 | 2 3/8" | 2 1/4 | 1 3/4 | 1 1/4 | 3/4 | 2.00 |
| F-320 | 2-45PP-71PP, 43PP, 2-25 AG PP | A | 8,000 CT | 8.2 | 40 | 10 | CH-2 | 2 1/4" | 3 1/4 | 2 | 2 | 1 1/4 | 2.70 |
| F-321 | 2- 6F6 PP, 42 PP, 2- 2A5PP, 6A4, P.P. | A | 14,000 CT | 8.2 | 40 | 8 | CH-2 | 2 3/8" | 2 1/4 | 1 3/4 | 1 1/4 | 3/4 | 2.00 |
| F-322 | 1- 6V6 | A | 5,000 | 8.2 | 45 | 5 | CH-2 | 2" | 2 3/8 | 1 5/8 | 1 1/8 | 1/2 | 1.40 |

AUDIO TRANSFORMERS

Receiver and Amplifier

VIBRATOR TRANSFORMERS

FREED TRANSFORMER CO., INC.
BROOKLYN 27 NEW YORK



RECEIVER AUDIO TRANSFORMERS

Designed for use in receiver audio circuits where a reasonably good frequency response is required. To be used for Class A applications, i.e., where no great current is drawn.

| Freed No. | Classification | Application | Ohms Impedance | | Turns Ratio | Pri MA Per Side | Mtg. Type | Mtg. Centers W | Dimensions | | | Wgt. Lbs. | List Price |
|-----------|----------------|--|----------------|------------|-------------|-----------------|-----------|----------------|------------|-------|-------|-----------|------------|
| | | | Pr. | Sec. | | | | | W | D | H | | |
| F-550 | Input | DB mike to grid | 200/50 | 100,000 | 1:22.4 | | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | \$3.15 |
| F-551 | Input | SB mike to grid | 100 | 100,000 | 1:31.6 | 100 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 3.15 |
| F-552 | Input | Dyn. mike line or mixer to single or P.P. grid | 200/50 | 100,000 CT | 1:22.4 | | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 3.40 |
| F-553 | Input | Line to single or P.P. class A grids | 125/500 | 100,000 CT | 1:14.1 | | CH-1 | 3 1/8 | 3 1/4 | 2 1/4 | 2 1/8 | 1 3/4 | 4.10 |
| F-554 | Input | Plate and single button mike to grid | 10,000 | 100,000 | 1:3.16 | | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 3.15 |
| F-555 | Input | Voice coil to grid | 4/8 | 100,000 | 1:11.2 | | CH-1 | 2 1/8 | 3 1/4 | 2 1/4 | 2 | 1 1/2 | 3.65 |
| F-556 | Matching | DB mike to line | 200/50 | 500/125 | | | CH-1 | 3 3/8 | 3 1/4 | 2 1/4 | 2 1/8 | 1 3/4 | 4.50 |
| F-557 | Matching | High impedance mike to line or mixer | 100,000 | 200/50 | 1:22.4 | | CH-1 | 3 3/8 | 3 1/4 | 2 1/4 | 2 1/8 | 1 3/4 | 4.50 |
| F-558 | Interstage | Single plate to single grid | 10,000 | 90,000 | 1:3 | 8 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 2.60 |
| F-559 | Interstage | Single plate to P.P. grids | 10,000 | 90,000 CT | 1:3 | 8 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 2.70 |
| F-560 | Interstage | Single High Imp. plate to single grid | 50,000 | 50,000 | 1:1 | 2 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 4.25 |
| F-561 | Interstage | P.P. plates to P.P. grids | 20,000 CT | 20,000 CT | 1:1 | 8 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 4.25 |
| F-562 | Output | Single plate to line or mixer | 10,000 | 200/50 | 7.1:1 | 8 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 3.05 |
| F-563 | Output | Single plate to line | 10,000 | 500/125 | 4.8:1 | 8 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 3.05 |
| F-564 | Output | P.P. plates to line or mixer | 20,000 | 200/50 | 10:1 | 8 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 3.05 |
| F-565 | Output | P.P. plates to line | 20,000 | 500/125 | 6.32:1 | 8 | CH-1 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 3.05 |

AMPLIFIER AUDIO TRANSFORMERS

Designed for amplifier and transmitter audio circuits. To be used for Class "A" applications.

Fully enclosed shielded type construction, conservative design and good frequency response are the quality features of the amplifier audio transformers.

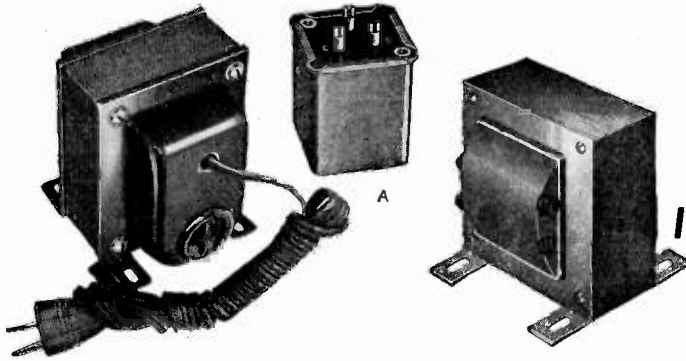
| Freed No. | Classification | Application | Pr. | Sec. | Turns Ratio | Pri MA Per Side | Mtg. Type | Mtg. Centers W | Dimensions W | D | H | Wgt. Lbs. | List Price | |
|-----------|----------------|---|-----------|------------|-------------|-----------------|-----------|----------------|--------------|-------|-------|-----------|------------|--------|
| F-500 | Input | DB mike to grid | 200/50 | 100,000 | 1:22.4 | | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | \$3.75 |
| F-501 | Input | SB mike to grid | 100 | 100,000 | 1:31.6 | 100 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.75 |
| F-502 | Input | Dyn. mike line or mixer to single or P.P. grids | 200/50 | 100,000 CT | 1:22.4 | | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 4.00 |
| F-503 | Input | Line to single or P.P. class A grids | 150/600 | 100,000 CT | 1:12.9 | | PS-I | 1 3/4 | 1 1/2 | 2 1/8 | 2 3/8 | 2 3/8 | 2 1/2 | 4.75 |
| F-504 | Input | Plate and single button mike to grid | 10,000 | 100,000 | 1:3.16 | | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.75 |
| F-505 | Input | Voice coil to grid | 4/8 | 100,000 | 1:11.2 | | PS-I | 1 1/2 | 1 1/8 | 1 3/8 | 2 1/2 | 2 1/4 | 1 3/4 | 4.25 |
| F-506 | Matching | DB mike to line | 200/50 | 500/125 | | | PS-I | 1 3/4 | 1 1/2 | 2 1/8 | 2 3/8 | 2 3/8 | 2 1/2 | 5.10 |
| F-507 | Matching | High Impedance mike to line or mixer | 100,000 | 200/50 | 1:22.4 | | PS-I | 1 3/4 | 1 1/2 | 2 1/8 | 2 3/8 | 2 3/8 | 2 1/2 | 5.10 |
| F-508 | Interstage | Single plate to single grid | 10,000 | 90,000 | 1:3 | 8 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.35 |
| F-509 | Interstage* | Single plate to PP grid | 10,000 | 90,000 | 1:3 | 8 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.45 |
| F-510 | Interstage | Single High Imp. plate to single grid | 50,000 | 50,000 | 1:1 | 2 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 4.80 |
| F-511 | Interstage* | PP plate to PP grids | 20,000 CT | 20,000 CT | 1:1 | 8 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 4.80 |
| F-512 | Output | Single plate to line or mixer | 10,000 | 200/50 | 7.1:1 | 8 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.65 |
| F-513 | Output | Single plate to line | 10,000 | 500/125 | 4.8:1 | 8 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.65 |
| F-514 | Output | PP plate to line or mixer | 20,000 CT | 200/50 | 10:1 | 8 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.65 |
| F-515 | Output | P.P. plates to line | 20,000 CT | 500/125 | 6.32:1 | 8 | PS-I | 1 1/2 | 1 7/8 | 1 3/8 | 2 1/4 | 2 1/4 | 1 3/4 | 3.65 |

*Has Split Secondary Winding

VIBRATOR TRANSFORMERS

Designed for Automobile Receivers Using A Vibrator from a Six Volt Battery Source.

| Freed No. | D.C. Output Deliver by Sec. | | Style Mtg. | Mounting Dimensions | | Dimensions | | | Weight | List Price |
|-----------|-----------------------------|-----|------------|---------------------|-------|------------|-------|-------|--------|------------|
| | Volts | Ma. | | W | D | W | D | H | | |
| F-450 | 225 | 40 | BV | 2 | 1 3/4 | 2 1/2 | 2 | 3 1/8 | 2 | \$4.25 |
| F-451 | 250 | 60 | BV | 2 | 1 3/8 | 2 1/2 | 2 1/8 | 3 1/8 | 2 1/4 | 4.60 |
| F-452 | 250 | 60 | BV | 2 1/4 | 1 3/4 | 2 1/4 | 2 1/4 | 3 1/8 | 2 1/2 | 5.30 |
| F-453 | 275 | 70 | BV | 2 1/4 | 1 3/8 | 2 1/4 | 2 1/4 | 3 1/8 | 3 | 6.00 |
| F-454 | 350 | 75 | BV | 2 1/4 | 2 | 2 1/4 | 2 3/4 | 3 1/8 | 3 1/2 | 6.50 |



FILTER CHOKES and HI "Q" REACTORS

FILAMENT, AUTO and ISOLATION TRANSFORMERS

FREED

TRANSFORMER CO., INC.
BROOKLYN 27 NEW YORK

PS-2
HUM BUCKING CONSTRUCTION FILTER CHOKES
Designed for Series-Parallel Operation at
Full Rated Load and Low Temperature Rise

| Freed No. | Induct. | D.C. Cur. | D.C. Resis. | R.M.S. Test Volts | Mounting Type | Mtg. Dimensions | | Dimensions | | | Weight Lbs. | List Price |
|-----------|---------|-----------|-------------|-------------------|---------------|-----------------|-------|------------|-------|-------|-------------|------------|
| | | | | | | W | D | W | D | H | | |
| F-700 | 320/80 | 3/6 | 6000/1500 | 2500 | OC | 2 1/8 | 1 3/4 | 2 5/8 | 2 1/4 | 3 1/8 | 3 | \$11.00 |
| F-701 | 100/25 | 35/70 | 1400/350 | 2500 | OC | 3 1/8 | 2 1/8 | 4 1/8 | 3 1/2 | 4 5/8 | 7 1/2 | 11.25 |
| F-702 | 50/12.5 | 50/100 | 600/150 | 2500 | OC | 2 1/8 | 2 3/8 | 3 1/8 | 2 1/8 | 3 1/8 | 5 1/2 | 11.25 |
| F-703 | 50/12.5 | 100/200 | 528/132 | 3000 | OC | 4 1/2 | 3 5/8 | 5 1/8 | 4 3/8 | 5 3/8 | 10 | 20.30 |
| F-704 | 16/4 | 125/250 | 240/60 | 3000 | OC | 3 1/8 | 2 1/8 | 4 1/8 | 3 1/2 | 4 5/8 | 7 | 11.25 |
| F-705 | 16/4 | 175/350 | 88/22 | 5000 | OC | 4 1/2 | 3 3/8 | 5 1/8 | 4 3/8 | 5 3/8 | 10 | 20.30 |
| F-706 | 24/6 | 200/400 | 160/40 | 7500 | OC | 5 1/2 | 5 1/2 | 6 5/8 | 6 5/8 | 7 1/4 | 20 | 36.50 |

HI "Q" REACTORS

To be used in filters or tuned circuits. Standard values range from 10 millihenries to 50 henries.

| Freed No. | Application | Ind. Hen. | Cur. MA | DC Ohms | Mounting Type | Mounting Dimensions | | Dimensions | | | Weight Lbs. | List Price |
|-----------|--------------------------|-----------|---------|---------|---------------|---------------------|-------|------------|-------|-------|-------------|------------|
| | | | | | | W | D | W | D | H | | |
| F-750 | Filters, tuned circuits | 10 | 10 | 1200 | A | 1 5/8 | * | 1 1/8 | 1 1/8 | 2" | 1/2 | \$ 5.70 |
| F-751 | Filter or tuned circuits | 1 | 20 | 315 | A | 1 5/8 | * | 1 1/8 | 1 1/8 | 2" | 1/2 | 5.70 |
| F-752 | Filter or tuned circuits | .25 | 20 | 80 | A | 1 5/8 | * | 1 1/8 | 1 1/8 | 2" | 1/2 | 5.70 |
| F-753 | Filter or tuned circuits | 2 | 30 | 190 | OC | 2 1/8 | 1 3/4 | 2 5/8 | 2 1/4 | 3 1/8 | 2 | 11.40 |
| F-754 | Filter or tuned circuits | .5 | 30 | 75 | OC | 2 1/8 | 1 3/4 | 2 5/8 | 2 1/4 | 3 1/8 | 2 | 11.40 |

FILAMENT TRANSFORMERS

The mounting dimension 1 5/8 is given between centers across corners.

| Part No. | Fil. V | C.T. A | Test Volts R.M.S. | Mounting Type | Mounting Centers | | Dimensions | | | Weight Lbs. | List Price |
|----------|--------|--------|-------------------|---------------|------------------|-------|------------|-------|-------|-------------|------------|
| | | | | | W | D | W | D | H | | |
| F-210 | 2.5 | 3 | 1600 | CH-1 | 2 3/8 | 2 3/8 | 2 1/8 | 1 3/4 | 1 1/8 | 3/4 | \$2.05 |
| F-211 | 2.5 | 7.5 | 1600 | CH-1 | 2 1/8 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 2.90 |
| F-212 | 2.5 | 12 | 1600 | CH-1 | 3 1/8 | 3 1/8 | 3 1/8 | 2 1/4 | 2 5/8 | 2 | 3.25 |
| F-213 | 5 | 1.5 | 1600 | CH-1 | 2 3/8 | 2 3/8 | 2 1/8 | 1 3/4 | 1 1/8 | 3/4 | 2.05 |
| F-214 | 5 | 4 | 1600 | CH-1 | 2 1/8 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 2.90 |
| F-215 | 5 | 6 | 1600 | CH-1 | 3 1/8 | 3 1/8 | 3 1/8 | 2 3/4 | 2 5/8 | 2 | 3.25 |
| F-216 | 5 | 8 | 1600 | FV-1 | 2 | 2 1/8 | 2 1/2 | 2 5/8 | 3 1/8 | 2 3/4 | 4.25 |
| F-217 | 5 | 13 | 1600 | FV-1 | 2 1/4 | 2 1/4 | 2 1/8 | 2 7/8 | 3 1/8 | 4 | 5.60 |
| F-218 | 6.3 | 1.35 | 1600 | CH-1 | 2 3/8 | 2 3/8 | 2 1/8 | 1 3/4 | 1 1/8 | 3/4 | 2.05 |
| F-219 | 6.3 | 3 | 1600 | CH-1 | 2 1/8 | 2 1/8 | 3 1/4 | 2 | 2 | 1 1/4 | 2.90 |
| F-220 | 6.3 | 5 | 1600 | CH-1 | 3 1/8 | 3 1/8 | 3 1/8 | 2 1/4 | 2 5/8 | 2 | 3.25 |
| F-221 | 6.3 | 7 | 1600 | FV-1 | 2 | 2 1/8 | 2 1/2 | 2 5/8 | 3 1/8 | 2 3/4 | 4.25 |
| F-222 | 6.3 | 10 | 1600 | FV-1 | 2 1/4 | 2 1/4 | 2 1/8 | 2 7/8 | 3 1/8 | 4 | 5.60 |
| F-223 | 7.5 | 4 | 1600 | CH-1 | 3 1/8 | 3 1/8 | 3 1/8 | 2 1/4 | 2 5/8 | 2 | 3.25 |
| F-224 | 7.5 | 8 | 1600 | FV-1 | 2 1/4 | 2 1/4 | 2 1/8 | 2 7/8 | 3 1/8 | 4 | 5.75 |
| F-225 | 10 | 12 | 1600 | FV-1 | 2 1/2 | 2 1/2 | 3 1/8 | 3 1/2 | 3 1/8 | 6 | 9.10 |

AUTO TRANSFORMERS

To be used as a step-down transformer. Equipped with standard receptacle and line cord.

| Freed No. | V. A. Rating | 230/115 50/60 cy. | Mounting Type | Mounting Centers | | Dimensions | | | Weight | List Price |
|-----------------|--------------|-------------------|---------------|------------------|-------|------------|-------|-------|--------|------------|
| | | | | W | D | W | D | H | | |
| F-900 | 100 | " " " | PS-2 | 2 1/4 | 1 3/4 | 2 3/8 | 3 | 3 3/8 | 4 1/2 | \$8.40 |
| F-901 | 200 | " " " | PS-2 | 2 1/2 | 2 1/8 | 3 3/8 | 3 3/8 | 3 3/8 | 6 1/4 | 9.55 |
| F-902 | 300 | " " " | PS-2 | 3 | 2 5/8 | 3 3/8 | 3 5/8 | 4 1/8 | 7 1/4 | 12.15 |
| F-903 | 400 | " " " | PS-2 | 3 | 2 1/8 | 3 3/8 | 3 3/8 | 4 1/8 | 8.0 | 15.20 |
| F-904 | 500 | " " " | PS-2 | 3 | 3 1/8 | 3 3/8 | 4 7/8 | 4 1/8 | 13 1/2 | 18.25 |
| F-905 | 750 | " " " | PS-2 | 3 1/2 | 3 3/8 | 4 7/8 | 5 1/4 | 5 3/8 | 20 | 24.30 |
| F-906 | 1000 | " " " | PS-2 | 3 1/2 | 5 3/8 | 4 7/8 | 6 3/8 | 5 3/8 | 29 | 30.75 |
| F-907 | 1500 | " " " | PS-2 | 3 1/2 | 6 3/8 | 4 7/8 | 7 3/4 | 5 3/8 | 36 | 45.65 |
| F-908 (no cord) | 2000 | " " " | PS-2 | 4 3/4 | 5 | 6 3/8 | 8 3/8 | 6 1/4 | 36 1/2 | 60.00 |
| F-909 (no cord) | 2500 | " " " | PS-2 | 4 3/4 | 6 1/4 | 6 3/8 | 10 | 6 1/4 | 45 1/2 | 70.00 |
| F-910 (no cord) | 3000 | " " " | PS-2 | 5 5/8 | 5 3/4 | 7 3/4 | 9 5/8 | 6 1/2 | 54 1/4 | 81.25 |

ISOLATION TRANSFORMERS

Electrostatic shield between primary and secondary. Equipped with standard receptacle and line cord.

| Freed No. | V. A. Rating | 115/115 50/60 cy. | Mounting Type | Mounting Centers | | Dimensions | | | Weight | List Price |
|-----------|--------------|-------------------|---------------|------------------|-------|------------|-------|-------|--------|------------|
| | | | | W | D | W | D | H | | |
| F-920 | 50 | " " " | PS-2 | 2 1/4 | 1 3/4 | 2 3/8 | 3 | 3 3/8 | 4 1/2 | \$9.10 |
| F-921 | 100 | " " " | PS-2 | 2 1/2 | 2 1/8 | 3 3/8 | 3 3/8 | 3 3/8 | 6 1/4 | 13.00 |
| F-922 | 300 | " " " | PS-2 | 3 1/2 | 3 3/8 | 4 7/8 | 4 3/4 | 5 3/8 | 18 | 32.85 |
| F-923 | 500 | " " " | PS-2 | 3 1/2 | 4 7/8 | 4 7/8 | 6 1/4 | 5 3/8 | 27 | 40.00 |

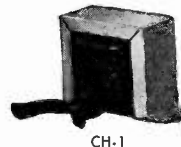
FILTER CHOKES and AUDIO REACTORS

FREED

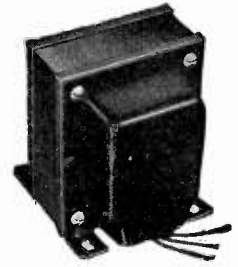
TRANSFORMER CO., INC.

BROOKLYN 27

NEW YORK



CH-1



PS-1

REPLACEMENT FILTER CHOKES

| Freed No. | Ind. Henry | D.C. Cur. | D.C. Res. | R.M.S. Test Volt. | Mounting Type | Mtg. Centers | | Dimensions | | | Weight | List Price |
|-----------|------------|-----------|-----------|-------------------|---------------|--------------|---|------------|-------|-------|--------|------------|
| | | | | | | W | D | W | D | H | | |
| F-600 | 3 | 40 | 160 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | \$1.40 |
| F-601 | 4 | 40 | 200 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.40 |
| F-602 | 6 | 40 | 300 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.40 |
| F-603 | 9 | 40 | 400 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.40 |
| F-604 | 11 | 40 | 500 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.40 |
| F-605 | 7 | 55 | 200 | 1600 | CH-1 | 2 3/8 | | 2 1/8 | 1 3/4 | 1 1/2 | 3/4 | 1.45 |
| F-606 | 9 | 55 | 300 | 1600 | CH-1 | 2 3/8 | | 2 1/8 | 1 3/4 | 1 1/2 | 3/4 | 1.45 |
| F-607 | 10 | 55 | 400 | 1600 | CH-1 | 2 3/8 | | 2 1/8 | 1 3/4 | 1 1/2 | 3/4 | 1.45 |
| F-608 | 13 | 55 | 500 | 1600 | CH-1 | 2 3/8 | | 2 1/8 | 1 3/4 | 1 1/2 | 3/4 | 1.45 |
| F-609 | 20 | 30 | 1250 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.75 |
| F-610 | 6 | 50 | 400 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.40 |
| F-611 | 4 | 60 | 300 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.40 |
| F-612 | 3 | 75 | 200 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | 1.40 |
| F-613 | 15 | 35 | 625 | 1600 | CH-1 | 2 3/8 | | 2 1/8 | 1 3/4 | 1 1/2 | 3/4 | 1.45 |
| F-614 | 5 | 75 | 200 | 1600 | CH-1 | 2 3/8 | | 2 1/8 | 1 3/4 | 1 1/2 | 3/4 | 1.45 |
| F-615 | 20 | 50 | 475 | 1600 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 2.55 |
| F-616 | 10 | 75 | 250 | 1600 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 2.40 |
| F-617 | 6 | 100 | 150 | 2000 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 2.40 |
| F-618 | 3.5 | 150 | 100 | 2000 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 2.40 |
| F-619 | 2 | 200 | 60 | 2000 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 2.40 |

AMPLIFIER AND SMALL TRANSMITTER FILTER CHOKES Rated under full D.C. current.

| Freed No. | Ind. Hen. | D.C. Cur. | D.C. Resis. | R.M.S. Test Volts | Mounting Type | Mounting Dimensions | | Dimensions | | | Weight | List Price |
|-----------|-----------|-----------|-------------|-------------------|---------------|---------------------|-------|------------|-------|-------|--------|------------|
| | | | | | | W | D | W | D | H | | |
| F-620 | 20 | 50 | 475 | 1600 | PS-1 | 1 1/2 | 1 3/8 | 1 7/8 | 2 1/2 | 2 5/8 | 1 3/4 | \$3.15 |
| F-621 | 10 | 75 | 250 | 1600 | PS-1 | 1 1/2 | 1 3/8 | 1 7/8 | 2 1/4 | 2 5/8 | 1 1/2 | 3.05 |
| F-622 | 6 | 100 | 150 | 2000 | PS-1 | 1 1/2 | 1 3/8 | 1 7/8 | 2 1/4 | 2 5/8 | 1 1/2 | 3.05 |
| F-623 | 3.5 | 150 | 100 | 2000 | PS-1 | 1 1/2 | 1 3/8 | 1 7/8 | 2 1/4 | 2 5/8 | 1 1/2 | 3.05 |
| F-624 | 2 | 200 | 60 | 2000 | PS-1 | 1 1/2 | 1 3/8 | 1 7/8 | 2 1/4 | 2 5/8 | 1 1/2 | 3.05 |
| F-625 | 20 | 75 | 375 | 1600 | PS-1 | 1 3/4 | 1 1/2 | 2 5/8 | 2 3/8 | 2 1/2 | 2 1/8 | 3.25 |
| F-626 | 10 | 110 | 210 | 2000 | PS-1 | 1 3/4 | 1 1/2 | 2 5/8 | 2 1/2 | 2 1/2 | 2 1/4 | 3.40 |
| F-627 | 5 | 150 | 100 | 2000 | PS-1 | 1 3/4 | 1 1/2 | 2 5/8 | 2 3/8 | 2 1/2 | 2 1/8 | 3.25 |
| F-628 | 20 | 100 | 400 | 2000 | PS-1 | 2 | 1 1/2 | 2 5/8 | 3 | 3 1/4 | 3 1/2 | 4.95 |
| F-629 | 10 | 125 | 240 | 2000 | PS-1 | 2 | 1 1/2 | 2 5/8 | 2 3/8 | 3 1/4 | 3 | 4.60 |
| F-630 | 12 | 160 | 180 | 2500 | PS-1 | 2 | 2 1/8 | 2 5/8 | 3 1/8 | 3 3/4 | 3 1/2 | 4.95 |
| F-631 | 7 | 200 | 100 | 2500 | PS-1 | 2 | 1 1/2 | 2 5/8 | 3 | 3 3/4 | 3 1/2 | 4.95 |
| F-632 | 5 | 250 | 70 | 3000 | PS-1 | 2 | 1 1/2 | 2 5/8 | 3 | 3 3/4 | 3 1/2 | 4.95 |
| F-633 | 12 | 180 | 235 | 2500 | PS-1 | 2 1/4 | 1 7/8 | 2 3/4 | 3 1/8 | 3 3/4 | 4 | 5.70 |
| F-634 | 10 | 200 | 150 | 2500 | PS-1 | 2 1/4 | 2 | 2 3/4 | 3 1/4 | 3 3/4 | 4 1/4 | 5.85 |
| F-635 | 5 | 300 | 65 | 3000 | PS-1 | 2 1/4 | 2 1/8 | 2 3/4 | 3 3/8 | 3 3/4 | 4 1/2 | 5.85 |
| F-636 | 20 | 160 | 330 | 2500 | PS-1 | 2 1/2 | 2 1/8 | 3 3/8 | 3 7/8 | 3 3/4 | 5 1/8 | 7.30 |
| F-637 | 15 | 200 | 200 | 2500 | PS-1 | 2 1/2 | 2 5/8 | 3 3/8 | 3 5/8 | 3 3/4 | 5 1/2 | 7.30 |
| F-638 | 10 | 250 | 135 | 3000 | PS-1 | 2 1/2 | 2 5/8 | 3 3/8 | 3 5/8 | 3 3/4 | 5 1/2 | 7.30 |
| F-639 | 20 | 250 | 160 | 3000 | PS-1 | 3 | 3 3/8 | 3 3/8 | 4 1/4 | 4 1/4 | 10 | 9.90 |

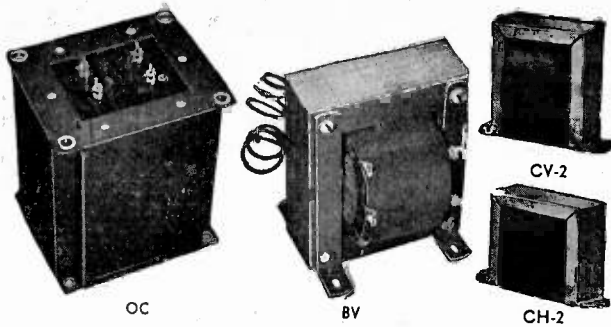
AMPLIFIER AND SMALL TRANSMITTER SWINGING CHOKES Rated under full D.C. current.

| | | | | | | | | | | | | |
|-------|------|-----|-----|------|------|-------|-------|-------|-------|-------|-------|--------|
| F-640 | 5-25 | 160 | 180 | 2500 | PS-1 | 2 | 1 1/2 | 2 5/8 | 2 3/4 | 3 3/4 | 3 | \$4.95 |
| F-641 | 5-25 | 180 | 235 | 2500 | PS-1 | 2 1/4 | 1 7/8 | 2 3/4 | 3 1/8 | 3 3/4 | 4 | 5.70 |
| F-642 | 5-20 | 200 | 150 | 2500 | PS-1 | 2 1/4 | 2 | 2 3/4 | 3 1/4 | 3 3/4 | 4 1/4 | 5.85 |
| F-643 | 5-30 | 200 | 200 | 2500 | PS-1 | 2 1/2 | 2 5/8 | 3 3/8 | 3 5/8 | 3 3/4 | 5 1/2 | 7.30 |
| F-644 | 5-20 | 250 | 135 | 3000 | PS-1 | 2 1/2 | 2 5/8 | 3 3/8 | 3 5/8 | 3 3/4 | 5 1/2 | 7.30 |

PARALLEL FEED AUDIO REACTORS

Designed to eliminate the direct current component in the primary of audio transformers to be used as plate coupling reactor where the use of a high resistance is objectionable. Low distributed capacity insures excellent high frequency response.

| | | | | | | | | | | | | |
|-------|-----|----|------|------|------|-------|--|-------|-------|-------|-------|--------|
| F-645 | 100 | 10 | 3500 | 1600 | CH-1 | 2 | | 2 3/8 | 1 5/8 | 1 7/8 | 1/2 | \$1.95 |
| F-646 | 350 | .5 | 4900 | 1600 | CH-1 | 2 3/8 | | 2 1/8 | 1 3/4 | 1 1/2 | 3/4 | 2.10 |
| F-647 | 500 | .5 | 6150 | 1600 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 3.00 |
| F-648 | 700 | .5 | 6150 | 1600 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 3.00 |
| F-649 | 30 | 35 | 650 | 1600 | CH-1 | 2 1/8 | | 3 1/4 | 2 | 2 | 1 1/2 | 2.55 |



AUDIO TRANSFORMERS

C Series

Universal

OUTPUT TRANSFORMERS

FREED TRANSFORMER CO., INC.

BROOKLYN 27

NEW YORK

AUDIO TRANSFORMERS — C SERIES

A quality line of transformers used in Public Address amplifiers and transmitters. Uniform case design, universal mounting, conservative ratings, vacuum impregnation of coils and moisture proof sealing of all these transformers is one of the outstanding

features of the C Series Audio Transformers. Low level input and output transformers have a balanced hum bucking coil construction. The frequency response of all these units is flat within ± 2 db from 60 to 10,000 cps.

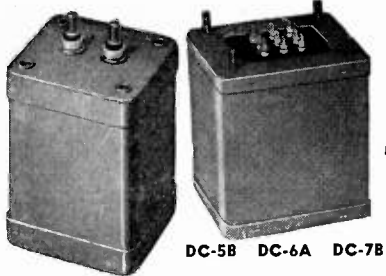
| Freed No. | Classification | Application | Ohms Impedance | | Turns Ratio | Pri MA Per Side | Mtg. Centers | | | Dimensions | | | Wgt. Lbs. | List Price |
|-----------|----------------|---|------------------------------------|--------------------------------|-------------|-----------------|--------------|--------|--------|------------|--------|--------|-----------|------------|
| | | | Pr. | Sec. | | | Type | W | D | W | D | H | | |
| F-150 | Input | Microphone, line or mixer to grid | 500*/333 250/200* 125/50 | 60,000 or 15,000 | 1:11 | | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | \$11.65 |
| F-151 | Input | Microphone, line or mixer to P.P. grids | 500*/333 250/200* 125/50 | 120,000 CT | 1:22 | | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 11.65 |
| F-152 | Input | Dynamic mike to grid | 60/38 30/22 15/10 5.5/2.5 | 60,000 or 15,000 | 1:31.6 | | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 11.65 |
| F-153 | Input | Microphone, line or mixer to grid; magnetic shielding | 500*/333 250/200* 125/50 | 50,000 | 1:10 | | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 14.60 |
| F-154 | Matching | Microphone, mixer or line to low impedance | 500*/333 250/200* 125/50 | 500*/333 250/200* 125/50 | 1:1 | | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 11.65 |
| F-155 | Matching | Dynamic mike or mixer to low impedance line | 60/38 30/22 15/10 5.5/2.5 | 500*/333 250/200* 125/50 | 1:2.9 | | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 11.65 |
| F-156 | Output | Single plate to line or mixer | 10,000 to 15,000 | 500*/333 250/200* 125/50 | | 8 | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 11.65 |
| F-157 | Output | Single plate to line or mixer; magnetic shielding | 10,000 or 15,000 | 500*/333 250/200* 125/50 | | | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 14.60 |
| F-158 | Output | P.P. plates to line or mixer | 20,000 CT | 500*/333 250/200* 125/50 | | 8 | OC | 2 1/2" | 1 3/4" | 2 5/8" | 2 1/4" | 3 1/8" | 1 3/4" | 11.65 |

*Indicates balanced C.T.

UNIVERSAL OUTPUT TRANSFORMERS

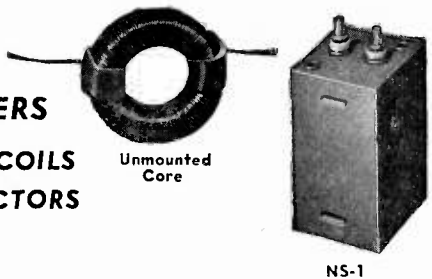
Covering most applications. Correct matching for the various conditions can be obtained by the wide range of plate or line and voice coil impedances.

| Freed No. | Classification or Application | Ohms Impedance | | Pri. MA | Max. Watts | Mtg. Type | Mounting Centers | | | Dimensions | | | Wt. Lbs. | List Price | |
|-----------|--|---|-----------------------|---------|------------|-----------|------------------|--------|--------|------------|--------|--------|----------|------------|------|
| | | Pri. | Sec. | | | | W | D | W | D | H | | | | |
| F-300 | Universal single or P.P. tubes to speaker | From 1500 to 20,000 | Adjustable .1-29 | 36 | 6 | CH-2 | 2 3/8" | | | 2 1/8" | 1 3/4" | 1 1/4" | 3/4" | \$2.25 | |
| F-301 | | | | 55 | 10 | CH-2 | 2 1/8" | | | 3 1/4" | 2" | 2" | 1 1/4" | 2 1/2" | 2.90 |
| F-302 | | | | 80 | 15 | CV-2 | 2 1/8" | | | 3 3/8" | 2 1/4" | 2 3/4" | 2 3/4" | 2 1/4" | 4.25 |
| F-303 | Universal single tube to speaker | | | 60 | 10 | CH-2 | 2 3/8" | | | 2 1/8" | 1 7/8" | 1 1/4" | 1 | 2.25 | |
| F-304 | Universal P.P. tubes to speaker | From 3,000 to 10,000 | Adjustable .1-29 | 60 | 20 | CV-2 | 3 1/8" | | | 3 5/8" | 2 1/2" | 3 1/8" | 2 1/2" | 4.25 | |
| F-305 | Universal single tube to line | 2,500-4,000 5,000-7,000 | 500 600 | 60 | 12 | CV-2 | 3 1/8" | | | 3 5/8" | 2 1/2" | 3 1/8" | 2 1/2" | 5.35 | |
| F-306 | Universal P.P. tubes to line | 8,000-10,000 12,000-14,000 | 500 600 | 60 | 12 | CV-2 | 3 1/8" | | | 3 5/8" | 2 1/2" | 3 1/8" | 2 1/2" | 5.75 | |
| F-307 | Line to tapped voice coil | 500-1,000 1,500-2,000 2,500-3,000 | Min. .06 to Max. 48 | 10 | CV-2 | 2 1/8" | | | 3 5/8" | 2 1/4" | 2 3/4" | 3 1/8" | 1 1/4" | 4.60 | |
| F-308 | | | | 15 | CV-2 | 3 1/8" | | | 3 5/8" | 2 1/4" | 3 1/8" | 3 1/8" | 2 1/2" | 5.40 | |
| F-309 | | | | 20 | BV-2 | 2 1/4" | 2 1/8" | 2 1/8" | 2 1/8" | 3 1/8" | 2 3/4" | 3 1/8" | 3 1/8" | 3 1/8" | 6.00 |
| F-310 | | | | 30 | BV-2 | 2 1/4" | 2 1/8" | 2 1/8" | 2 1/8" | 3 1/8" | 3 1/8" | 3 1/8" | 3 1/8" | 4 1/4" | 7.40 |
| F-311 | Line to voice coil | 500/250 | 15-8-4-2 | 10 | CV-2 | 2 3/8" | | | 2 7/8" | 2" | 2 3/8" | 1 1/4" | 3.40 | | |
| F-312 | | | | 60 | BV-2 | 2 1/2" | 2 1/4" | 3 1/8" | 3 1/4" | 3 1/8" | 3 1/8" | 4 1/4" | 9.10 | | |
| F-313 | Line to multiple speakers (auto-transformer) | 500 | 250/166 125/100/84 | 70 | BV-2 | 2 1/2" | 2 1/4" | 3 1/8" | 3 1/4" | 3 1/8" | 4 1/4" | | 9.10 | | |



HIGH FIDELITY OUTPUT TRANSFORMERS

LOW FREQUENCY HIGH "Q" COILS
HIGH "Q" TOROID INDUCTORS



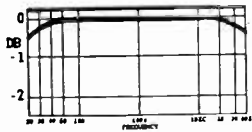
DC-1 DC-2

FREED TRANSFORMER CO., INC.

BROOKLYN 27 NEW YORK

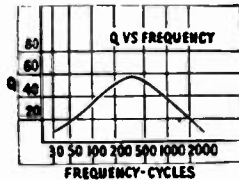
HIGH FIDELITY OUTPUT TRANSFORMERS

| FREED No. | Primary Matches Following Typical Tubes | Primary Impedance | Secondary Impedance | ±1/2 db from | Maximum Level | Type of Case | List |
|-----------|--|-------------------|----------------------------------|-----------------|---------------|--------------|---------|
| F-1950 | Push pull 2A3's, 6A5G8s, 300A's, 275A's, 6A3's, 6L6's | 5000 ohms | 500, 333, 250, 200, 125, 50 | 20-30000 cycles | 15 watts | DC-5B | \$28.00 |
| F-1951 | Push pull 2A3's, 6A5G8s, 300A's, 275A's, 6A3's, 6L6's | 5000 ohms | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 20-30000 cycles | 15 watts | DC-5B | 28.00 |
| F-1954 | Push pull 2A5, 250, 6V6, 42 or 2A5, A prime | 8000 ohms | 500, 333, 250, 200, 125, 50 | 20-30000 cycles | 15 watts | DC-5B | 28.00 |
| F-1955 | Push pull 2A5, 250, 6V6, 42 or 2A5, A prime | 8000 ohms | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 20-30000 cycles | 15 watts | DC-5B | 28.00 |
| F-1958 | Push pull 6B5, 6A6, 53, 6F6, 59, 79, 89, 6V6, Class B 46, 59 | 10,000 ohms | 500, 333, 250, 200, 125, 50 | 20-30000 cycles | 15 watts | DC-5B | 28.00 |
| F-1959 | Push pull 6B5, 6A6, 53, 6F6, 59, 79, 89, 6V6, Class B 46, 59 | 10,000 ohms | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 20-30000 cycles | 15 watts | DC-5B | 28.00 |
| F-1962 | Push pull parallel 2A3's, 6A5G's, 300A's, 6A3's, 6L6 | 2500 ohms | 500, 333, 250, 200, 125, 50 | 20-30000 cycles | 36 watts | DC-6A | 35.00 |
| F-1963 | Push pull parallel 2A3's, 6A5G's, 300A's, 6A3's, 6L6 | 2500 ohms | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 20-30000 cycles | 36 watts | DC-6A | 35.00 |
| F-1966 | Push pull 6L6 or Push pull parallel 6L6 | 3800 ohms | 500, 333, 250, 200, 125, 50 | 20-30000 cycles | 50 watts | DC-7B | 45.00 |
| F-1967 | Push pull 6L6 or Push pull parallel 6L6 | 3800 ohms | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 20-30000 cycles | 50 watts | DC-7B | 45.00 |



LOW FREQUENCY HIGH "Q" COILS

| FREED No. | Inductance Value | Type of Case |
|-----------|------------------|--------------|
| F-1900 | 100 HY | DC-2 |
| F-1901 | 75 HY | DC-2 |
| F-1902 | 50 HY | DC-2 |
| F-1903 | 25 HY | DC-2 |



| FREED No. | Inductance Value | Type of Case |
|-----------|------------------|--------------|
| F-1904 | 10 HY | DC-2 |
| F-1905 | 5 HY | DC-2 |
| F-1906 | 1 HY | DC-2 |

PRICES ON REQUEST

HIGH "Q" CHOKES . . . Used in Dynamic Noise Suppressors

| FREED No. | Ind. Henry | D.C. Cur. | D.C. Res. | R.M.S. Test Volt. | Mounting Type | Mounting Centers W | Dimensions W | H | Weight | List Price | |
|-----------|------------|-----------|-----------|-------------------|---------------|--------------------|--------------|---|--------|------------|--------|
| F-1980 | 0.6 | | | 500 | CH-1 | 1 1/2 | 1 3/4 | 1 | 1 1/8 | 3 oz. | \$4.90 |
| F-1981 | 2.0 | | | 500 | CH-1 | 1 1/2 | 1 3/4 | 1 | 1 1/8 | 3 oz. | 4.90 |
| F-1982 | .4 | | | 500 | CH-1 | 1 1/2 | 1 3/4 | 1 | 1 1/8 | 3 oz. | 4.90 |
| F-1983 | 1.3 | | | 500 | CH-1 | 1 1/2 | 1 3/4 | 1 | 1 1/8 | 3 oz. | 4.90 |

HIGH Q TOROID INDUCTORS

| FREED NUMBER | INDUCTANCE VALUE | TYPE OF CASE | FREED NUMBER | INDUCTANCE VALUE | TYPE OF CASE | FREED NUMBER | INDUCTANCE VALUE | TYPE OF CASE |
|--------------|------------------|--------------|--------------|------------------|--------------|--------------|------------------|--------------|
| F-800T | 5 MHY | DC-1 | F-850T | 5 MHY | NS-1 | F-1807T | 30 MHY | DC-1 |
| F-801T | 10 MHY | DC-1 | F-851T | 10 MHY | NS-1 | F-1808T | 50 MHY | DC-1 |
| F-802T | 15 MHY | DC-1 | F-852T | 15 MHY | NS-1 | F-1809T | 75 MHY | DC-1 |
| F-803T | 30 MHY | DC-1 | F-853T | 30 MHY | NS-1 | F-1810T | 100 MHY | DC-1 |
| F-804T | 50 MHY | DC-1 | F-854T | 50 MHY | NS-1 | F-1811T | 150 MHY | DC-1 |
| F-805T | 75 MHY | DC-1 | F-855T | 75 MHY | NS-1 | F-1812T | 200 MHY | DC-1 |
| F-806T | 100 MHY | DC-1 | F-856T | 100 MHY | NS-1 | F-1813T | 300 MHY | DC-1 |
| F-807T | 150 MHY | DC-1 | F-857T | 150 MHY | DC-1 | F-1814T | 400 MHY | DC-1 |
| F-808T | 200 MHY | DC-1 | F-858T | 200 MHY | DC-1 | F-1815T | 500 MHY | DC-1 |
| F-809T | 500 MHY | DC-1 | F-859T | 300 MHY | DC-1 | F-1850T | .5 MHY | DC-1 |
| F-810T | 750 MHY | DC-1 | F-860T | 400 MHY | DC-1 | F-1851T | 1 MHY | DC-1 |
| F-811T | 1000 MHY | DC-1 | F-861T | 500 MHY | DC-1 | F-1852T | 2 MHY | DC-1 |
| F-812T | 1250 MHY | DC-1 | F-862T | 600 MHY | DC-1 | F-1853T | 3 MHY | DC-1 |
| F-813T | 1500 MHY | DC-1 | F-863T | 700 MHY | DC-1 | F-1854T | 4 MHY | DC-1 |
| F-814T | 1750 MHY | DC-1 | F-864T | 800 MHY | DC-1 | F-1855T | 5 MHY | DC-1 |
| F-815T | 2000 MHY | DC-1 | F-865T | 900 MHY | DC-1 | F-1856T | 10 MHY | DC-2 |
| F-816T | 2250 MHY | DC-1 | F-866T | 1000 MHY | DC-1 | F-1857T | 15 MHY | DC-2 |
| F-817T | 2500 MHY | DC-1 | F-1800T | 1 MHY | DC-1 | F-1858T | 20 MHY | DC-2 |
| F-818T | 2750 MHY | DC-1 | F-1801T | 2 MHY | DC-1 | F-1859T | 30 MHY | DC-2 |
| F-819T | 3000 MHY | DC-1 | F-1802T | 3 MHY | DC-1 | F-1860T | 40 MHY | DC-2 |
| F-820T | 3500 MHY | DC-1 | F-1803T | 4 MHY | DC-1 | F-1861T | 50 MHY | DC-2 |
| F-821T | 4000 MHY | DC-1 | F-1804T | 5 MHY | DC-1 | F-1862T | 75 MHY | DC-2 |
| F-822T | 4500 MHY | DC-1 | F-1805T | 10 MHY | DC-1 | F-1863T | 100 MHY | DC-2 |
| F-823T | 5000 MHY | DC-1 | F-1806T | 15 MHY | DC-1 | | | |

STANDARD TOLERANCE ±2%

FOR TOLERANCES OF ±1%, ADD 7% TO COST

CASE SIZES

| Type | Width | Depth | Height | Mounting | Screws | Weight |
|-------|--------|--------|--------|------------------------|--------|------------|
| NS-1 | 1 1/2" | 1 1/2" | 2" | 1 3/8" between centers | 6/32 | 8 oz. |
| DC-1 | 2 1/8" | 1 1/8" | 2 1/2" | 1 1/2" x 1 1/4" | 6/32 | 14 oz. |
| DC-2 | 2 5/8" | 2 1/8" | 3" | 2" x 1 3/4" | 6/32 | 16 oz. |
| DC-5B | 4 1/8" | 3 1/8" | 4 1/2" | 3 1/4" x 2 5/8" | 10/32 | 6 1/2 lbs. |
| DC-6A | 4 1/8" | 4 1/8" | 4 7/8" | 3 3/4" x 3" | 10/32 | 10 lbs. |
| DC-7B | 5 1/8" | 4 1/8" | 6 3/8" | 4 3/4" x 3 1/4" | 1/4-20 | 20 lbs. |

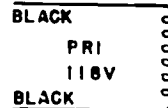
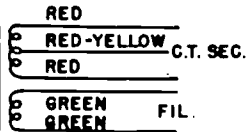
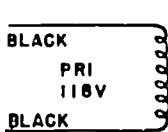
All inductors listed above can be supplied in hermetically sealed cans, commercial type construction or open units.

PRICES ON REQUEST

Thermador Transformers

POWER COMPONENTS

POWER TRANSFORMERS



| TYPE NUMBER | CASE | HIGH VOLTAGE SECONDARY | SEC. CUR. | RECTIFIER FIL. | FILAMENT | DIMENSIONS H W D | | | MOUNTING CENTERS | WT. | PRICE |
|-------------|------|------------------------|-----------|----------------|--------------|---------------------|-------------------|-------------------|-------------------------------------|------------------------|--------|
| 5A6640 | A | 330-0-330 | 40 MA | 5V-2A | 6.3VCT@2A | 3 $\frac{1}{8}$ | 2 $\frac{5}{8}$ | 2 $\frac{11}{16}$ | 2 X 2 | 2 [#] -8 OZ. | \$5.00 |
| 5A4056 | A | 205-0-205 | 50 MA | | 6.3V @2.5A | 2 $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 3 $\frac{1}{8}$ | 1 $\frac{3}{4}$ X 2 $\frac{13}{16}$ | 2 [#] -5 OZ. | 4.50 |
| 5A5066 | A | 270-0-270 | 60 MA | 5V-2A | 6.3V @2A | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 3 $\frac{1}{4}$ | 2 X 2 $\frac{7}{16}$ | 3 [#] -6 OZ. | 5.35 |
| 5A6076 | A | 300-0-300 | 65 MA | | 6.3V @2.7A | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 3 $\frac{1}{4}$ | 2 X 2 $\frac{7}{16}$ | 3 [#] | 5.25 |
| 5A6066 | A | 300-0-300 | 65 MA | 5V-2A | 6.3V @2.1A | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ | 3 $\frac{1}{4}$ | 2 X 2 $\frac{7}{16}$ | 3 [#] -6 OZ. | 5.75 |
| 5A6086 | A | 300-0-300 | 75 MA | 5V-2A | 6.3V @2.85A | 3 $\frac{9}{16}$ | 2 $\frac{15}{16}$ | 3 $\frac{1}{8}$ | 2 $\frac{1}{4}$ X 2 $\frac{1}{8}$ | 3 [#] | 6.80 |
| 5A6096 | A | 350-0-350 | 90 MA | 5V-2A | 6.3VCT@3.15A | 3 $\frac{9}{16}$ | 2 $\frac{15}{16}$ | 3 $\frac{7}{16}$ | 2 $\frac{1}{4}$ X 2 $\frac{7}{16}$ | 4 [#] | 7.10 |
| 5A6116 | A | 310-0-310 | 110 MA | 5V-3A | 6.3VCT@5A | 4 $\frac{1}{8}$ | 3 $\frac{5}{8}$ | 3 $\frac{5}{16}$ | 2 $\frac{3}{4}$ X 2 | 5 [#] | 7.50 |
| 5A6146 | A | 300-0-300 | 135 MA | 5V-3A | 6.3VCT@3.3A | 4 $\frac{1}{8}$ | 3 $\frac{5}{8}$ | 3 $\frac{5}{16}$ | 2 $\frac{3}{4}$ X 2 $\frac{1}{4}$ | 5 [#] -13 OZ. | 8.10 |
| 5A6196 | A | 320-0-320 | 185 MA | 5V-3A | 6.3VCT@6A | 4 $\frac{1}{8}$ | 3 $\frac{5}{8}$ | 4 | 2 $\frac{3}{4}$ X 2 $\frac{11}{16}$ | 7 [#] -8 OZ. | 10.25 |

THERMADOR TRANSFORMERS

Superior materials, workmanship and performance have established these Thermador transformers as America's finest. Designed, engineered and produced by the West's largest manufacturer of transformers, the name Thermador guarantees their rugged, precision construction and their longer life.

REPLACEMENT TRANSFORMERS

Adaptable to a Particular Job: The transformer models listed have been engineered to cover the replacement field for both the old and new home radio receivers. The new line affords the widest range of application for use in receivers, amplifiers and small transmitters.

Thermatite Treated to Withstand Heat and Humidity: THERMADOR transformers are Thermatite treated, which is a well tested and approved form of vacuum impregnation. This treatment, proved on thousands of transformers under severe climatic conditions, gives these units the resistance to withstand extreme conditions of humidity and heat.

Thermador Electrical Manufacturing Company

Thermador Transformers

POWER COMPONENTS

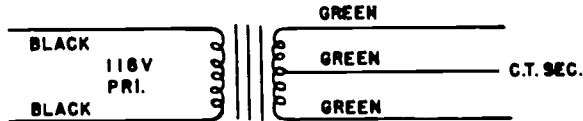
CHOKES

RED-BLACK

RED-YELLOW

| TYPE NUMBER | CASE | INDUCTANCE | CURRENT | RESISTANCE OHMS | DIMENSIONS | | | MOUNTING CENTERS | WT. | PRICE |
|-------------|------|------------|---------|-----------------|------------------|-------------------|-------------------|-------------------------------------|-----------------------|--------|
| | | | | | H | W | D | | | |
| 7L1005 | L | 10HY | 50 MA | 450 | 1 $\frac{5}{8}$ | 2 $\frac{3}{4}$ | 1 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | 90Z. | \$2.10 |
| 7L1008 | L | 10HY | 75 MA | 360 | 2 | 3 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 80Z. | 2.35 |
| 7A1809 | A | 18HY | 90 MA | 600 | 2 $\frac{7}{8}$ | 2 $\frac{3}{8}$ | 2 $\frac{13}{16}$ | 1 $\frac{3}{4}$ X 1 $\frac{15}{16}$ | 1 [#] -140Z. | 4.10 |
| 7A1414 | A | 14HY | 135 MA | 260 | 3 $\frac{1}{4}$ | 3 $\frac{3}{4}$ | 3 | 2 X 2 $\frac{3}{16}$ | 2 [#] -120Z. | 4.85 |
| 7A0819 | A | 8HY CT | 185 MA | 212 | 3 $\frac{3}{16}$ | 2 $\frac{11}{16}$ | 3 $\frac{3}{8}$ | 2 X 2 $\frac{1}{2}$ | 3 [#] -80Z. | 5.15 |

FILAMENT TRANSFORMERS



| TYPE NUMBER | CASE | FILAMENT | CURRENT | TEST VOLTAGE | DIMENSIONS | | | MOUNTING CENTERS | WT. | PRICE |
|-------------|------|--------------|--------------|--------------|------------------|-------------------|------------------|-------------------------------------|-----------------------|--------|
| | | | | | H | W | D | | | |
| 6L6022 | L | 6.3 VCT | 2.25 A | 2000 | 2 | 3 $\frac{1}{8}$ | 1 $\frac{7}{8}$ | 2 $\frac{3}{4}$ | 1 [#] -80Z. | \$3.00 |
| 6A6042 | A | 6.3 VCT | 4.0A | 2000 | 2 $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 3 $\frac{3}{16}$ | 1 $\frac{3}{4}$ X 2 $\frac{1}{4}$ | 2 [#] -50Z. | 4.80 |
| 6A2422 | A | 12 V 12 V | 2.0A 2.0A | 2000 | 3 $\frac{1}{2}$ | 2 $\frac{15}{16}$ | 2 $\frac{7}{8}$ | 2 $\frac{1}{4}$ X 1 $\frac{29}{32}$ | 3 [#] -40Z. | 6.00 |
| 6D2515 | D | 2.5 VCT | 10A | 5000 | 3 $\frac{1}{2}$ | 3 | 2 $\frac{7}{8}$ | 2 $\frac{1}{4}$ X 2 | 2 [#] -120Z. | 5.75 |
| 6A6082 | A | 6.3 CT | 6A | 2000 | 3 $\frac{1}{2}$ | 2 $\frac{15}{16}$ | 3 $\frac{1}{4}$ | 2 $\frac{1}{4}$ X 2 $\frac{9}{32}$ | 3 [#] -120Z. | 6.50 |
| 6D1014 | O | 10 VCT | 10A | 4000 | 4 $\frac{1}{16}$ | 3 $\frac{5}{8}$ | 3 $\frac{1}{4}$ | 2 $\frac{3}{4}$ X 2 | 4 [#] -120Z. | 7.95 |

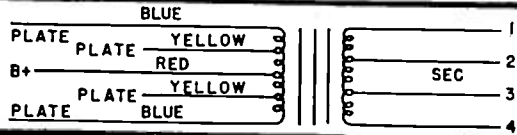
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Thermador Electrical Manufacturing Company

Thermador Transformers

AUDIO COMPONENTS

OUTPUT TRANSFORMERS

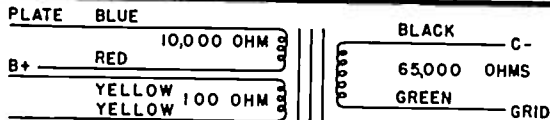


| TYPE NUMBER | CASE | PRIMARY OHMS | SEC. OHMS | WATTS | PRI. MA | DIMENSIONS H W D | | | MOUNTING CENTERS | WT | PRICE |
|-------------|------|---|-------------------------|-------|---------|---------------------|-------------------|-----------------|-------------------------------------|------------------------|--------|
| 4L1026 | L | 5000, 7000, 10000 SINGLE | 2-6 | 2 | 15 | 1 $\frac{5}{16}$ | 1 $\frac{13}{16}$ | 1 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | 30Z. | \$2.90 |
| 4L1048 | L | 3500, 5000, 8000, 10000 SINGLE & P.P. | 2-8 | 5 | 40 | 1 $\frac{7}{16}$ | 2 $\frac{7}{16}$ | 1 $\frac{1}{2}$ | 2 | 50Z. | 3.10 |
| 4F7050 | F | 7000 | 3, 4, 8, 16 200, 500 | 5 | 40 | 2 $\frac{7}{8}$ | 2 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 1 $\frac{5}{8}$ X 1 $\frac{13}{16}$ | 1 [#] - 80Z. | 9.50 |
| 4L4056 | L | 2000, 2500, 3000, 4000 SINGLE & P.P. | 2-6 | 5 | 55 | 1 $\frac{1}{2}$ | 2 $\frac{3}{8}$ | 1 $\frac{1}{2}$ | 2 | 50Z. | 2.75 |
| 4L1056 | L | 4000, 5000, 7000, 10000, 14000 C.T. | 2-16 | 10 | 50 | 1 $\frac{15}{16}$ | 3 $\frac{1}{16}$ | 1 $\frac{3}{4}$ | 2 $\frac{3}{4}$ | 1 [#] | 3.25 |
| 4L1051 | L | 4000, 5000, 8000, 10000 - P.P. | 2-12 | 10 | 50 | 2 $\frac{3}{8}$ | 3 | 1 $\frac{7}{8}$ | 2 $\frac{1}{2}$ | 1 [#] - 50Z. | 3.80 |
| 4L1046 | L | 2000, 2500, 3500, 5000, 7000, 10000, SINGLE, 3000, 5000 7000, 10000 P.P. | 1-6 | 7.5 | 45 | 1 $\frac{9}{16}$ | 2 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 2 | 80Z. | 2.95 |
| 4A8105 | A | 5000, 3000 CT P.P. | 4-8 16-500 | 15 | 95 | 2 $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 2 $\frac{7}{8}$ | 1 $\frac{3}{4}$ X 1 $\frac{15}{16}$ | 1 [#] - 120Z. | 6.00 |
| 4A7145 | A | 5000, 6800 CT P.P. | 3, 4, 6, 8, 16-500 | 26 | 140 | 3 $\frac{1}{2}$ | 2 $\frac{15}{16}$ | 3 $\frac{1}{2}$ | 2 $\frac{1}{4}$ X 2 $\frac{9}{16}$ | 4 [#] - 80Z. | 9.75 |

LINE TO VOICE COIL
FOR MATCHING 500 OHM OUTPUT OF AMPLIFIER TO SERIES AND
PARALLEL COMBINATIONS OF 500 OHM SPEAKERS

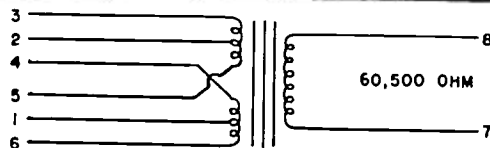
| | | | | | | | | | | | |
|--------|---|------------------------------------|-------------------|----|--|-----------------|-----------------|---|-----------------|-----------------------|--------|
| 4L2016 | L | 2000, 1500, 1000, 830, 500, 250 | 3, 4, 6, 8, 16 | 12 | | 2 $\frac{3}{4}$ | 2 $\frac{3}{8}$ | 3 | 1 $\frac{1}{2}$ | 1 [#] - 60Z. | \$4.75 |
|--------|---|------------------------------------|-------------------|----|--|-----------------|-----------------|---|-----------------|-----------------------|--------|

TRANSCEIVER



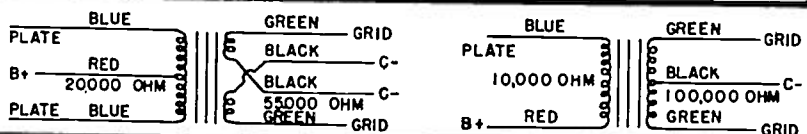
| | | | | | | | | | | | |
|--------|---|-------------|-------|------------------------|--|------------------|-------------------|---|-----------------|------|--------|
| 2L1726 | L | 100 - 10000 | 65000 | URNS RATIO 1.0 25.5 | | 1 $\frac{5}{16}$ | 1 $\frac{13}{16}$ | 1 | 1 $\frac{1}{2}$ | 30Z. | \$3.25 |
|--------|---|-------------|-------|------------------------|--|------------------|-------------------|---|-----------------|------|--------|

INPUT



| | | | | | | | | | | | |
|--------|---|------------------------------|-------|-----|--|-----------------|-----------------|-----------------|-------------------------------------|-----------------------|---------|
| 2F5611 | F | 50, 125, 200, 250 333 500 | 50000 | 110 | | 2 $\frac{7}{8}$ | 2 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 1 $\frac{5}{8}$ X 1 $\frac{13}{16}$ | 1 [#] - 80Z. | \$16.25 |
|--------|---|------------------------------|-------|-----|--|-----------------|-----------------|-----------------|-------------------------------------|-----------------------|---------|

INTERSTAGE



| | | | | | | | | | | | |
|--------|---|--------------|----------------|------|--|-----------------|-----------------|-----------------|---------------------|------------------------|--------|
| 3A2602 | A | 20000 P.P. | 55000 P.P. | 1173 | | 2 $\frac{7}{8}$ | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ | 1 $\frac{3}{4}$ X 2 | 1 [#] - 130Z. | \$6.00 |
| 3L1103 | L | 10000 SINGLE | 100000 P.P. | 1316 | | 1 $\frac{5}{8}$ | 2 $\frac{3}{4}$ | 1 $\frac{3}{8}$ | 2 $\frac{1}{4}$ | 80Z. | 2.85 |

Thermador Electrical Manufacturing Company

Thermador Transformers

TELEVISION

POWER TRANSFORMERS

| TYPE NUMBER | CASE | HIGH VOLTAGE SECONDARY | SEC. CUR. | RECT FIL. | FIL. | FIL. | DIMENSIONS | | | MOUNTING CENTERS | WT. | PRICE |
|-------------|------|------------------------|-----------|-----------|-------------|-------------|-------------------|------------------|-----------------|-----------------------------------|-------------------------------|--------|
| | | | | | | | H | W | D | | | |
| 5A7026 | A | 350-0-350 | 200 MA | 5V-3A | 6.3V @ 7A | 6.3V @ 1A | 4 $\frac{1}{16}$ | 3 $\frac{3}{4}$ | 4 $\frac{3}{4}$ | 2 $\frac{3}{4}$ x 3 $\frac{1}{4}$ | 10 [#] | \$9.25 |
| 5A8026 | A | 380-0-380 | 220 MA | 5V-3A | 6.3V @ 8.5A | 6.3 @ 1.2A | 4 $\frac{15}{16}$ | 4 $\frac{5}{16}$ | 4 $\frac{1}{4}$ | 3 $\frac{3}{8}$ x 3 | 11 [#] | 12.00 |
| 5B7035 | B | 365-0-365 | 300 MA | 5V-6A | 5V @ 2A | 12.6CT @ 6A | 6 $\frac{13}{16}$ | 4 $\frac{1}{8}$ | 4 $\frac{3}{4}$ | 3 $\frac{1}{4}$ x 4 | 15 $\frac{1}{2}$ [#] | 15.00 |

CHOKES

| TYPE NUMBER | CASE | INDUCTANCE | CURRENT | RESISTANCE OHMS | DIMENSIONS | | | MOUNTING CENTERS | WT. | PRICE |
|-------------|------|------------|---------|-----------------|-----------------|-----------------|-----------------|------------------|------------------------------|--------|
| | | | | | H | W | D | | | |
| 7L0422 | L | 4 HY | 220 MA | 100 | 2 $\frac{3}{4}$ | 4 $\frac{1}{8}$ | 2 $\frac{1}{8}$ | 3 $\frac{5}{8}$ | 2 $\frac{1}{2}$ [#] | \$3.45 |
| 7L0130 | L | 1 HY | 300 MA | 37 | 2 $\frac{1}{4}$ | 3 $\frac{7}{8}$ | 2 $\frac{1}{2}$ | 3 $\frac{5}{16}$ | 2 $\frac{1}{4}$ [#] | 4.25 |

OUTPUT TRANSFORMERS

| TYPE NUMBER | CASE | PRIMARY IMPEDANCE | SECONDARY IMPEDANCE | WATTS | PRI MA | DIMENSIONS | | | MOUNTING CENTERS | WT. | PRICE |
|-------------|------|---|---------------------|-------|--------|------------------|-------------------|-----------------|----------------------|------------------------------|--------|
| | | | | | | H | W | D | | | |
| 4L8350 | L | 8000 OHMS | 3.2 OHMS | 10 | 50 | 2 | 3 $\frac{1}{4}$ | 1 $\frac{5}{8}$ | 2 $\frac{3}{4}$ | 1 [#] 5oz. | \$3.70 |
| 4D1001 | D | VERTICAL OUTPUT TRANSFORMER FOR USE IN CIRCUITS USING TYPE 201D1 AND 201D2 DEFLECTION YOKES. RATIO 10:1 | | | | 3 $\frac{3}{16}$ | 2 $\frac{11}{16}$ | 3 $\frac{1}{4}$ | 2 x 2 $\frac{5}{16}$ | 2 $\frac{1}{2}$ [#] | 7.50 |

STEP-DOWN 230-115 VOLTS

| TYPE NUMBER | CASE | RATING VA | CONNECTIONS | DIMENSIONS | | | MOUNTING CENTERS | WT. | PRICE |
|-------------|------|-----------|--------------------------------|-----------------|-----------------|-----------------|------------------------------------|-------------------------------|---------|
| | | | | H | W | D | | | |
| 5A1150 | A | 150 | EQUIPPED WITH AC CORD AND PLUG | 3 $\frac{1}{2}$ | 3 | 3 $\frac{1}{4}$ | 2 $\frac{1}{4}$ x 2 $\frac{1}{8}$ | 4 [#] | \$11.00 |
| 5A1250 | A | 250 | EQUIPPED WITH AC CORD AND PLUG | 4 $\frac{1}{8}$ | 3 $\frac{3}{4}$ | 3 $\frac{3}{4}$ | 2 $\frac{3}{4}$ x 2 $\frac{1}{4}$ | 6 [#] | 15.50 |
| 5A1500 | A | 500 | EQUIPPED WITH AC CORD AND PLUG | 5 | 4 $\frac{3}{8}$ | 5 | 3 $\frac{3}{8}$ x 3 $\frac{1}{2}$ | 13 [#] | 19.85 |
| 5A1600 | A | 600 | EQUIPPED WITH AC CORD AND PLUG | 5 | 4 $\frac{3}{8}$ | 5 $\frac{1}{4}$ | 3 $\frac{3}{8}$ x 3 $\frac{7}{8}$ | 14 $\frac{1}{2}$ [#] | 20.45 |
| 5K1600 | K | 800 | EQUIPPED WITH AC CORD AND PLUG | 6 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 5 $\frac{3}{8}$ | 6 $\frac{1}{16}$ x 4 $\frac{3}{8}$ | 22 $\frac{1}{2}$ [#] | 43.20 |
| 5K1999 | K | 1000 | EQUIPPED WITH AC CORD AND PLUG | 6 $\frac{1}{4}$ | 7 $\frac{7}{8}$ | 6 $\frac{1}{4}$ | 7 $\frac{1}{4}$ x 5 $\frac{1}{8}$ | 25 [#] | 56.25 |

Buy the best — Buy Thermador

Thermador Electrical Manufacturing Company

Thermador Transformers

STUDIO QUALITY TRANSFORMERS

INPUT TRANSFORMERS

| TYPE NUMBER | CASE | PRIMARY IMPEDANCE | SECONDARY IMPEDANCE | PRI. IND @ 1MV | TURN RATIO | SHIELDING & HUM REDUCTION | TERMINALS | RESPONSE | WT. | PRICE |
|-------------|------|--|---------------------|----------------|------------|--------------------------------------|-----------|-----------------------------------|-----------|---------|
| SQ 2 | HB | 500 ⁺ 333-250, 200 ⁻ 125 ⁻ 50 ⁺ | 100 000 PP GRIDS | 6H | 1:14.1 | 90 DB REDUCTION 1PM & HUM-BUCKING | 9 | 2DB DOWN @ 20C 2DB DOWN @ 10KC | 7 OZ. | \$21.00 |
| SQ 4 | HM | 500 ⁺ 333-250, 200 ⁻ 125 ⁻ 50 ⁺ | 50 000 GRIDS | 6H | 1:10 | 45 DB SHIELDING 1 PM | 8 | 2DB DOWN @ 20C 2DB DOWN @ 20KC | 3 1/2 OZ. | 17.00 |

* BALANCED WINDINGS BALANCED DC WINDINGS

STONE CHOKES

| TYPE NUMBER | CASE | INDUCTANCE | Q | SHIELDING | TERMINALS | D.C. CURRENT | WT. | PRICE |
|-------------|------|---|-----|---------------------------------|-----------|--------------|------|---------|
| SQ 96 | HB | 200 ⁻ 163-141-121 ⁻ 115 110-87 5-83.2-71.4-67 3 63.5- 53 ⁻ 50 ⁻ 46 8 ⁻ 37 8 35.1-325-25.15-22.9-20.7 13.3-1168 ⁻ 75 ⁻ 5.2-1.87 HENRIES | 3-8 | 90 DB 1PM AND HUM-BUCKING | 8 | 8 MA MAX | 7 OZ | \$18.00 |
| SQ 98 | HB | 16 ⁻ 12 45-11 35 ⁻ 9 62-9 4 ⁻ 8 4-6 95-6 08-5 9-5 07 4 87 ⁻ 4 7-4 ⁻ -3 33-3 2 ⁻ 3 05-2 45-2 36 ⁻ 1 85-1 64 ⁻ 1 22 ⁻ 86 ⁻ 8-41 ⁻ .215 ⁻ HENRIES | 3-8 | 90 DB 1 PM HUM-BUCKING | 8 | 10 MA MAX | 7 OZ | 17.00 |

BALANCED WINDINGS

OUTPUT TRANSFORMERS

| TYPE NUMBER | CASE | PRIMARY IMPEDANCE | SEC IMP. | PRI. OCL 60 CYCLES | USE | WATTS | MAX. DB LEVEL | PRI CUR. | RESPONSE | WT. | PRICE |
|-------------|------|-------------------------|--|--------------------|----------------------------------|----------|---------------|----------|--|---------|---------|
| SQ 30 | HG | 15000 Ω OR 3750 Ω | 500 ⁺ 125 | 200 H | 2-6C5 2-6J5 2-6SN7 ETC | 1-2 | 30 DB | 10 MA | 1 DB DOWN @ 20C 1 DB DOWN @ 25KC | 1" | \$25.00 |
| SQ 32 | F5 | 10000 Ω OR 8000 Ω | 500 ⁺ 125 16 ⁻ 12-8 ⁻ 6-4-2 | 85 H | 2-6V6 2-7C5 2-6K6 ETC | 10 TO 12 | 33 DB | 80 MA | 2DB DOWN @ 20C 0DB DOWN @ 25KC | 3 3/4" | 30.00 |
| SQ 34 | F6 | 5000 Ω OR 3000 Ω | 500 ⁺ 125 16 ⁻ 12-8 ⁻ 6-4-2 | 45 H | 2-6B4 2-2A3 2-6A3 ETC | 15 | 34 DB | 80 MA | 1/2 DB DOWN @ 20C 0DB DOWN @ 25KC | 6" | 32.00 |
| SQ 36 | F7 | 6600 Ω OR 5000 Ω | 500 ⁺ 125 16 ⁻ 12-8 ⁻ 6-4-2 | 52 H | 2-6L6 A OR AB 2-815 ETC | 26.5 | 36.5 DB | 145 MA | 2DB DOWN @ 20C 0DB DOWN @ 25KC | 8 3/4" | 38.50 |
| SQ 38 | F7 | 2500 Ω OR 1500 Ω | 500 ⁺ 125 16 ⁻ 12-8 ⁻ 6-4-2 | 23 H | 4-2A3 4-6A3 4-6B4 | 30 | 37 DB | 160 MA | 1 1/2 DB DOWN @ 20C 0DB DOWN @ 25KC | 9 1/2" | 40.50 |
| SQ 40 | K1 | 6000 Ω OR 3800 Ω | 500 ⁺ 125 16 ⁻ 12-8 ⁻ 6-4-2 | 48 H | 2-6L6 AB ₁ | 45 | 39 DB | 205 MA | 2DB DOWN @ 20C 0DB DOWN @ 25KC | 15 3/4" | 48.50 |
| SQ 42 | K1 | 3300 Ω OR 2500 Ω | 500 ⁺ 125 16 ⁻ 12-8 ⁻ 6-4-2 | 27 H | 4-6L6 A OR AB 2 807 | 60 | 40 DB | 280 MA | 2DB DOWN @ 20C 0DB DOWN @ 25KC | 17" | 52.50 |

* BALANCED WINDINGS

CASE SIZES

| CASE | H | W | D | CASE | H | DIAMETER |
|------|---------|-------|---------|------|---------|----------|
| F-4 | 3 5/16 | 2 3/8 | 2 7/8 | HM | 1 11/16 | 1 3/8 |
| F-5 | 3 3/4 | 2 7/8 | 3 1/8 | HB | 2 | 1 3/8 |
| F-6 | 4 7/16 | 3 3/8 | 3 5/8 | HG | 2 5/8 | 2 1/8 |
| F-7 | 4 15/16 | 3 7/8 | 4 13/32 | | | |
| K-1 | 6 1/2 | 4 1/4 | 4 3/4 | | | |

NOTE THE HM, HB, AND HG CASES ARE HERMETICALLY SEALED AND MOUNT INTO STANDARD TUBE SOCKET PUNCHING 1 1/2" CENTERS

Thermador Electrical Manufacturing Company

Thermador Transformers

STUDIO QUALITY TRANSFORMERS

| DRIVER TRANSFORMER | | | | | | | | |
|--------------------|------|--|--|------------------------------|--------------------|---|---------------------|---------|
| TYPE NUMBER | CASE | PRIMARY | SECONDARY | USE | PRI CURRENT | RESPONSE | WT. | PRICE |
| SQ-10 | F-4 | 15000 ^o OHM OR 3750 OHM | 135000 OHM * * BALANCED SPLIT WINDINGS | SINGLE OR P.P. DRIVERS | 12 MA | 1 1/2 DB DOWN @ 25C 0 DB DOWN @ 25KC | 3 [#] | \$24.00 |
| POWER TRANSFORMER | | | | | | | | |
| TYPE NUMBER | CASE | PRIMARY VOLTAGE | SECONDARY VOLTAGE | FIL. NO.1 | FIL. NO.2 | FIL. NO.3 | WT | PRICE |
| SQ-80 | F-7 | 105 115 125 | 380-320-80-0-320-380 @ 120 MA | 5VCT @ 3A | 6.3VCT @ 4A | 2.5VCT @ 5A | 9 1/2 [#] | \$24.00 |
| SQ-82 | K-1 | 105 115 125 | 420-375-80-0-375-420 @ 200 MA | 5VCT @ 3A | 6.3V. @ 5.5A | 2.5VCT @ 10A | 13 1/2 [#] | 30.00 |
| SQ-84 | K-1 | 105 115 125 | 575-440-60-0-440-575 @ 325 MA | 5VCT @ 6A | 6.3VCT @ 4A | 6.3VCT @ 2.5A | 19 1/4 [#] | 34.50 |
| CHOKES | | | | | | | | |
| TYPE NUMBER | CASE | INDUCTANCE | CURRENT | D.C. RESISTANCE | VOLTAGE INSULATION | WT. | PRICE | |
| SQ-90 | F-6 | 16/4 | 120 MA OR 240 MA | 250 OHMS | 2000' | 6 1/2 [#] | \$19.50 | |
| SQ-92 | F-7 | 16/4 | 175 MA OR 350 MA | 185 OHMS | 2500 | 9 3/4 [#] | 24.00 | |

STUDIO QUALITY TRANSFORMERS

THE HI-FIDELITY series of audio equipment listed above represents the highest degree of quality yet attained in audio transformers. In addition to the absolute moisture elimination provided by "Thermatite" treatment, THERMADOR hi-fidelity transformers have the following advantages:

Wide Frequency Range: Transformers of the SQ series are linear within one db. from 20 to 20000 cycles.

Balanced Winding. THERMADOR transformers are constructed to give the best practical magnetic, capacity and resistive balance. In designs where capacity balance is important, each winding is made up of two symmetrical coils. Input transformers are supplied with a static shield between primary and secondary.

Low Harmonic Distortion: THERMADOR transformers are designed to offer the proper load impedance to the tubes with which they operate. Maximum primary inductance, low leakage reactance and low flux densities in the core permit unusually low harmonic levels.

Catalog with case types illustrated is available upon request. For full information write to:

Thermador Electrical Manufacturing Company



TRANSFORMERS

OUTPUT TRANSFORMERS Receiver Replacement Type

To couple the plate or plates of the output stage to the speaker voice coil. Sec. impedance—3.5 ohms.

| Type No. | List Price | Tube | Class | Pri. Impedance | Pri. M.A. | Max. Watts | Mtg. Centers | Dimen. | | | Mtg. |
|----------|------------|--|-----------------|----------------|-----------|------------|--------------|----------------|----------------|----------------|--------|
| | | | | | | | | H. | W. | D. | |
| A-3025 | \$1.25 | 7A5, 35A5, 35C5, 50C5, 32L7, 35L6, 50B5 | A | 2500 | 50 | 3 | 1 3/4 | 1 3/8 | 1 1/8 | 3/8 | A |
| A-3026 | 1.25 | 6V6, 7C5, 25AC5, 35A5, 35B5, 35L6 | A | 5000 | 40 | 3 | 1 3/4 | 1 3/8 | 1 1/8 | 3/8 | A |
| A-2927 | 1.25 | Single 1C5-G, 1G5-G, 1G5, 1S4, 3Q4, 3Q5, 3S4, 6A4 | A | 8000 | 20 | 3 | 1 1/2 | 1 3/8 | 1 7/8 | 1 | B |
| A-2928 | 1.40 | Single 2A3, 6A3, 6B4, 6Y6, 25AC5, 25B6, 25N6, 25L6, 35A5, 35L6, 50L6, 48, 50B5, 35B5, 50A5 | A | 2000 | 60 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-2930 | 1.45 | Single 6V6, 7C5, 12A, 12A5, 25A6, 25A7, 35A5, 35L6, 31, 45, 50, 59 | A | 5000 | 40 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-2935 | 3.00 | PP 6L6 | A | 5000 c.t. | 150 | 18 | 2 13/16 | 2 | 3 1/4 | 1 3/8 | A |
| A-2931 | 1.45 | Single 2A5, 6AC5, 6B5, 6F6, 6K6, 6N6, 7B5, 20, 31, 42, 47, 50, 6V5 | A | 7000 | 30 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-2932 | 1.45 | Single 1C5, 1Q5, 3C5, 6A4, 6G6, 6N7, 6R7, 12A, 38, 41, 49, 3V4 | A | 10000 | 30 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-2938 | 2.10 | Single 19, 1G6, 1J6 | B | 10000 c.t. | 40 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-2936 | 2.40 | PP 1H4, 30, 49 PP 6AC5 | B | | | | | | | | |
| A-2933 | 1.80 | PP 6V6, 7C5 | AB ₁ | 10000 c.t. | 75 | 10 | 2 3/8 | 1 3/8 | 2 13/16 | 1 1/2 | A |
| A-2934 | 1.55 | Single 1D8, 7B5, 6K6, 6G6 Single 1D8, 1F4, 1F5, 1J5, 1T5, 6V7, 12A7, 85 | A | 12000 15000 | 10 10 | 5 5 | 2 2 | 1 3/8 1 3/8 | 2 3/8 2 3/8 | 1 1/4 1 1/4 | A A |
| A-2937 | 1.75 | Single 1A5, 1N6, 6V7, 85 PP 1E7, 1J5, 6G6, 3A4, 3V4 | A | 25000 c.t. | 10 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |

OUTPUT TRANSFORMER KITS

| Kit No. | List Price | |
|-----------|------------|--|
| Kit No. 1 | \$12.85 | (2 ea.) A-2928, (1 ea.) A-2930, A-2931, A-2932, A-2934, A-2936, A-2937 |
| Kit No. 2 | 13.15 | (2 ea.) A-2928, A-2937, (1 ea.) A-2930, A-2931, A-2934, A-2936 |
| Kit No. 3 | 12.95 | (1 ea.) A-2928, A-2930, A-2931, A-2932, A-2933, A-2934, A-2937, A-2938 |
| Kit No. 4 | 14.00 | (2 ea.) A-2928, A-2931, A-2936, A-2937 |

FILTER TAPPED OUTPUT TRANSFORMERS Pri. has 3% and 6% Humbucking Taps Sec. Impedance 3-4 ohms

| Type No. | List Price | Tube | Class | Pri. Impedance | Pri. M.A. | Max. Watts | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|--|-------|----------------|-----------|------------|--------------|------------|-------|-------|------|
| | | | | | | | | H | W | D | |
| A-3031 | \$1.75 | Single 2A3, 6A3, 7A5, 25L6, 35A5, 35B5, 35L6, 45, 50B5, 50L6 | A | 3000 | 50 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-3032 | 1.75 | Single 6V6, 6B5, 7C5, 6F6 | A | 6000 | 40 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |

SPECIAL OUTPUT TRANSFORMERS To Couple Push Pull Plates to Line or Voice Coil Sec. Impedance 2-4-8-15-250-500 ohms

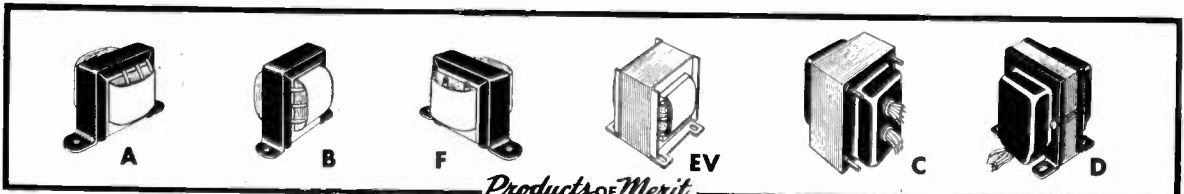
| Type No. | List Price | Tube | Class | Pri. Impedance | Pri. M.A. per Side | Max. Watts | Mtg. Centers | Dimensions | | | Mtg. Type |
|----------|------------|---|-----------------------------------|----------------|--------------------|------------|--------------|------------|--------|-------|-----------|
| | | | | | | | | H | W | D | |
| A-3027 | \$5.50 | PP2A5, 6V6, 7C5, 19, 6F6 PP1H4G, 1J6, 6AC5, 49 | A | 10000 c.t. | 45 | 15 | 2 13/16 | 2 | 3 1/4 | 1 3/4 | F |
| A-3028 | 6.25 | PP6L6 PP2A3 | A ₁ AB ₁ | 5000 c.t. | 70 | 20 | 3 1/8 | 2 1/4 | 3 1/16 | 2 | F |

VERTICAL OUTPUT TRANSFORMER

| Type No. | List Price | Turns Ratio Primary to Secondary | Mtg. Centers | Dimensions | | | Mtg. Type |
|----------|------------|----------------------------------|--------------|------------|--------|-------|-----------|
| | | | | H. | W. | D. | |
| ★A-3035 | \$5.25 | 10:1 | 1 13/16 x 2 | 3 1/4 | 2 1/16 | 2 1/2 | EV |

★Indicates TV Replacements.

All prices subject to trade discount, and change without notice.



Products of Merit



TRANSFORMERS

BLOCKING OSCILLATOR TRANSFORMER

| Type No. | List Price | Turns Ratio Primary to Secondary | Mtg. Centers | Dimensions | | | Mtg. Type |
|--------------------|------------|-------------------------------------|--------------|------------|-------|-------|-----------|
| | | | | H. | W. | D. | |
| ★A-3000 Vertical | \$2.00 | 1:4.2 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| ★A-3002 Horizontal | 2.25 | 2:1 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |

DUAL PRIMARY OUTPUT TRANSFORMERS For Use with AC-DC Battery Portable Receivers—Sec. Impedance 3-4 ohms

| Type No. | List Price | Tube | Class | Pri. Impedance | Pri. M.A. | Max. Watts | Mtg. Centers | H. | W. | D. | Mtg. |
|----------|------------|---|-------|----------------|-----------|------------|--------------|-------|-------|-------|------|
| A-3029 | \$1.75 | Single 25AC5, 25B6, 25L6, 25N6, 35A5, 35B5, 35L6, 50A5, 50B5, 50L6 OR Single 1S4, 1Q5, 3Q4, 3Q5, 3V4 | A | 2000 or 6000 | 60 or 10 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-3030 | 1.75 | Single 25AC5, 25B6, 25L6, 25N6, 35A5, 35L6, 50A5, 50B5, 50L6 OR Single 1S4, 1Q5, 3Q4, 3Q5, 3V4 | A | 2000 or 10000 | 60 or 10 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |

UNIVERSAL OUTPUT TRANSFORMERS To Provide Correct Coupling Between a Variety of Output Tubes and Any Speaker Voice Coil

| Type No. | List Price | Tube | Ohms Impedance Pri. | Sec. | Pri. M.A. | Max. Watts | Mtg. Centers | H. | W. | D. | Mtg. |
|----------|------------|---------------------|---------------------------------|-----------|-----------|------------|--------------|-------|-------|-------|------|
| A-2900 | \$2.40 | Single or Push-pull | 4000-7000-8000-10000-14000 c.t. | .17 to 32 | 35 | 4 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | F |
| A-2901 | 2.55 | Single or Push-pull | 4000-7000-8000-10000-14000 c.t. | .17 to 32 | 40 | 8 | 2 3/8 | 1 3/8 | 2 3/8 | 1 1/2 | F |
| A-2902 | 2.50 | Single | 1500-2000-4000-5000-7000-10000 | .1 to 40 | 55 | 10 | 2 3/8 | 1 3/8 | 2 3/8 | 1 1/2 | F |
| A-2903 | 2.00 | Single | 2000-4500-7000-10000 | 3.2 | 30 | 4 | 2 | 1 3/8 | 2 3/8 | 1 1/2 | F |
| A-2904 | 3.25 | Single or Push-pull | 4000-7000-8000-10000-14000 c.t. | .17 to 32 | 40 | 18 | 2 3/8 | 2 1/4 | 2 3/8 | 1 3/8 | F |
| A-2905 | 4.25 | Single or Push-pull | 3000-5000-7000-8000-10000 c.t. | .17 to 32 | 70 | 24 | 3 1/8 | 2 1/4 | 3 1/8 | 2 3/8 | F |
| A-2998 | 2.00 | Single | 3500-5000-7000-10000 | 3.2 | 35 | 3 | 1 3/4 | 1 1/2 | 2 1/2 | 1 3/8 | F |
| A-2999 | 2.00 | Single | 12000-15000-18000-25000 | 3.2 | 10 | 3 | 1 3/4 | 1 1/2 | 2 1/2 | 1 3/8 | F |

HEAVY DUTY OUTPUT TRANSFORMERS High Level Type to Couple to Line or Speaker. Sec. Impedance: 4-8-15-250-500 ohms

| Type No. | List Price | Tube | Class | Pri. Impedance | Pri. M.A. per Side | Max. Watts | H. | W. | D. | Mtg. |
|----------|------------|--|----------|----------------|--------------------|------------|-------|---------|-------|------|
| A-3127 | \$5.00 | Single 6L6, 2A3, 6A3, 6Y6 | A | 2500 | 80 | 8 | 3 3/8 | 2 5/8 | 2 1/2 | D |
| A-3128 | 8.00 | PP6Y6, 6F6 | AB1 | 8000 c.t.* | 50 | 14 | 3 1/2 | 2 13/16 | 3 1/8 | D |
| A-3129 | 8.00 | PP6L6 | AB1 | 4300 c.t.* | 95 | 25 | 3 1/2 | 2 13/16 | 3 3/8 | D |
| A-3130 | 8.75 | PP6L6 | AB1 | 6600 c.t.* | 80 | 34 | 3 3/8 | 3 3/8 | 3 3/8 | D |
| A-3131 | 7.00 | PP6L6, 6Y6, PP2A3, 6A3, 6B4, 45, PP6N7, 46 | A AB | 5000 c.t. | 80 | 30 | 3 1/2 | 2 13/16 | 3 3/8 | D |
| A-3132 | 7.00 | PP6F6, 2A5, 7C5, Single 6N7, 6A6 | B AB2 | 10000 c.t. | 40 | 25 | 3 1/2 | 2 13/16 | 3 3/8 | D |
| A-3133 | 11.50 | P.P. Par. 6L6, P.P. 807 | B AB1 | 3300 c.t. | 240 | 55 | 4 5/8 | 3 13/16 | 4 | D† |

* 10% Feedback Winding. † Mtg. Centers 3 x 2 13/16.

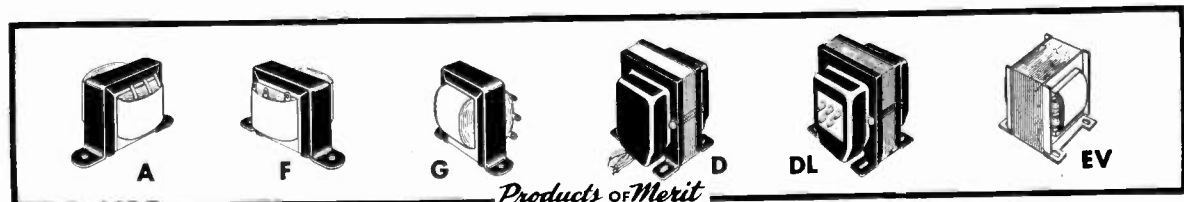
UNIVERSAL LINE TRANSFORMERS To Couple Various Line Impedances to a Voice Coil

| Type No. | List Price | Ohms Impedance | | Watts | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|--------------------|---------|-------|--------------|------------|---------|-------|------|
| | | Pri. | Sec. | | | H. | W. | D. | |
| A-2906 | \$2.25 | 500-1000-1500-2000 | 3.2 6-8 | 10 | 2 3/8 | 1 5/8 | 2 13/16 | 1 1/2 | F |
| A-2907 | 3.75 | 500-1000-1500-2000 | 3.2 6-8 | 18 | 2 3/8 | 2 1/4 | 2 3/8 | 1 7/8 | G |
| A-2908 | 4.00 | 500-1000-1500-2000 | 6-8 16 | 24 | 3 1/8 | 2 1/4 | 3 11/16 | 2 1/8 | F |
| A-2909 | 2.25 | 45-50 | 3.2 6-8 | 8 | 2 | 1 5/8 | 2 13/16 | 1 1/2 | G |
| A-3005 | 1.75 | 500 | 3.2 6-8 | 5 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |

For Use With Constant 70.7V. Line as Recommended by the RMA. Rated Power is Furnished on Lowest Tap. Other Taps Provide Reduction in Power in Steps of 3DB.

| | | | | | | | | | |
|--------|--------|-----------------------------|--------|----|-------|-------|---------|-------|---|
| A-3014 | \$2.75 | 500-1000-2000-4000-8000 | 4-8-16 | 10 | 2 3/8 | 1 5/8 | 2 13/16 | 1 1/2 | F |
| A-3015 | 4.25 | 275-550-1100-2200-4400-8800 | 4-8-16 | 18 | 2 3/8 | 2 1/4 | 2 3/8 | 1 7/8 | G |
| A-3016 | 4.75 | 210-420-840-1680-3360-6720 | 4-8-16 | 24 | 3 1/8 | 2 1/4 | 3 11/16 | 2 3/8 | F |

All prices subject to trade discount, and change without notice.



Products of Merit



TRANSFORMERS

TUBE TO LINE TRANSFORMERS For Coupling Single or Push-Pull Plates to Line or Mixer

| Type No. | List Price | Ohms Impedance | | Pri. M.A. | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|-----------------------|--------------------|-----------|--------------|------------|-------|-------|------|
| | | Pri. | Sec. | | | H. | W. | D. | |
| A-2925 | \$3.75 | 20000 c.t. | 500/125 | 10 | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |
| A-2926 | 3.75 | 20000 c.t. | 200/50 | 10 | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |
| †A-3023 | 4.25 | 5000-10000-20000 c.t. | 500/333/200/125/50 | 15 | 2 13/16 | 2 | 3 1/4 | 1 3/4 | F |
| †A-3024 | 9.00 | 5000-10000-20000 c.t. | 500/333/200/125/50 | 50 | 2x1 11/16 | 3 3/16 | 2 5/8 | 2 3/4 | DL |

†20,000 ohm center tapped.

INPUT TRANSFORMERS For Coupling Microphone or Line to Single or Push-Pull Grids

| Type No. | List Price | Ohms Impedance | | Turns Ratio | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|----------------|-------------|-------------|--------------|------------|-------|-------|------|
| | | Pri. | Sec. | | | H. | W. | D. | |
| A-2923 | \$2.25 | 3.2 | 50000 | 1:125 | 2 | 1 5/8 | 2 3/8 | 1 1/4 | A |
| A-2918 | 3.50 | 100 | 400000 c.t. | 1:64 | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |
| A-2919 | 3.25 | 200/50 | 100000 | 1:22 | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |
| A-2924 | 3.75 | 500/125 | 100000 c.t. | 1:14 | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |

INTERSTAGE TRANSFORMERS To Couple a Single Plate to a Single Grid

| Type No. | List Price | Ohms Impedance | | Turns Ratio | Pri. M.A. | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|----------------|-------|-------------|-----------|--------------|------------|-------|-------|------|
| | | Pri. | Sec. | | | | H. | W. | D. | |
| A-2910 | \$2.00 | 10000 | 90000 | 3:1 | 10 | 2 3/8 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-2911 | 2.25 | 10000 | 90000 | 3:1 | 10 | 2 3/8 | 1 3/8 | 2 3/8 | 1 1/2 | A |

To Couple a Single Plate to Push-Pull Grids

| | | | | | | | | | | |
|--------|------|-------|------------|-----|----|-------|-------|-------|-------|---|
| A-2914 | 2.25 | 10000 | 90000 c.t. | 3:1 | 10 | 2 3/8 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| A-2915 | 2.50 | 10000 | 90000 c.t. | 3:1 | 10 | 2 3/8 | 1 3/8 | 2 3/8 | 1 1/2 | A |
| A-2916 | 3.00 | 10000 | 90000 c.t. | 3:1 | 10 | 2 3/8 | 2 | 3 1/4 | 1 5/8 | A |

To Couple Push-Pull Plates to Push-Pull Grids

| | | | | | | | | | | |
|--------|------|------------|------------|-------|-------------|---------|-------|---------|-------|---|
| A-2912 | 3.50 | 10000 c.t. | 90000* | 3:1 | 10 per side | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |
| A-2913 | 3.00 | 20000 c.t. | 20000 c.t. | 1:1 | 10 per side | 2 13/16 | 1 5/8 | 2 13/16 | 1 1/2 | A |
| A-2917 | 3.50 | 20000 c.t. | 45000 c.t. | 1.5:1 | 10 per side | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |

*Split secondary.

DRIVER TRANSFORMERS To Couple Driver Plate to Amplifier Grids

| Type No. | List Price | Driver | Output | Ratio Pri. to 1/2 Sec. | Class | Pri. M.A. | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|------------------------------|--|--|--------------------------------------|-----------|---------------|------------|---------|-------|------|
| | | | | | | | | H. | W. | D. | |
| A-2920 | \$2.50 | 6C5, 1H4, 30, 49 | Single 1J6, 19, Push-pull 30, 49 | 2.5:1 | B | 10 | 2 3/8 | 1 5/8 | 2 13/16 | 1 1/2 | A |
| A-2921 | 3.50 | 6F6 2A5, 42 | PP6F6, 2A5, 6L6 | 1.7:1, 1.5:1, 1.3:1 | AB | 35 | 2 13/16 | 2 | 3 3/4 | 1 5/8 | A |
| A-2922 | 4.00 | 6A6, 6C5, 6N7, 46 | Single 6A6, 6N7, Push-pull 46 | 5:1, 4:1, 3:1, 2.5:1 | B | 20 | 2 13/16 | 2 | 3 1/4 | 1 5/8 | A |
| A-3120 | 10.50 | 500 ohm line | Class B Grids 15 Watt Capacity | 1:75, 1:85, 1:1, 1:1.25, 1:1.45, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3 | B | ----- | 2 13/16 x 2 | 3 1/8 | 2 5/8 | 3 3/8 | DL |
| A-3121 | 12.00 | 500 ohm line | Class B Grids 30 Watt Capacity | | B | ----- | 2 1/4 x 2 1/4 | 3 1/8 | 3 | 3 3/4 | DI |
| A-3123 | 5.00 | PP6A6, 53, PP6C5, 6N7, 6J5 | PP6N7, 6A6, 53, PP6L6, T21 | 5:1* | { B AB ₂ | 15 | 2 x 1 11/16 | 3 3/8 | 2 5/8 | 2 5/8 | D |
| A-3124 | 5.00 | 6F6, 46, 59, 2A5, 42 | PP46, 59, PP6L6, 807 | 2.2:1 | { B AB ₂ | 30 | 2 x 1 11/16 | 3 3/8 | 2 5/8 | 2 5/8 | D |
| A-3125 | 7.00 | 6F6, 2A5, 47, 42 PP2A3, 6L6. | PP6L6 | 1.4:1* | { AB ₂ AB ₂ | 40 | 2 1/4 x 2 | 3 1/2 | 2 13/16 | 3 3/8 | D |
| A-3126 | 5.75 | 45, 6V6, 6F6 | PP800, 203A, 811, 812, 812A, RK18, RK58, T20, TZ40, T55, 807, 809, 838, 845, 35, 100TH | 2:1 | B | 40 | 2 x 1 11/16 | 3 3/8 | 2 5/8 | 2 5/8 | D |

*Split secondary.

All prices subject to trade discount, and change without notice.



Products of Merit



TRANSFORMERS

MODULATION TRANSFORMERS For Specific Applications

| Type No. | List Price | Output Tubes | Ohms Impedance | | Max. MA | | Watts | Dimensions | | | Mtg. |
|----------|------------|--|-------------------------------------|----------------------------------|---------|------|-------|------------|-------|-------|------|
| | | | Pri. | Sec. | Pri. | Sec. | | H. | W. | D. | |
| A-3008 | \$3.00 | 1P6AQ5, 6V6, 6F6, Single 6A6, 6N7, 53 | 10000 c.t. | 4000-5000 7500-10000 | 70 | 60 | 10 | 2 1/4 | 2 7/8 | 2 1/2 | B |
| A-3109 | 7.00 | 1P2A3, 6A3, 6B4, 6L6, 45, 46, 59 | 6000 c.t. 3800 c.t. 3000 c.t. | 5000-8000 12000 | 80 | 100 | 25 | 3 1/8 | 2 5/8 | 2 3/4 | D |
| A-3110 | 12.00 | PP6L6, 807, RK41, HY56, HY61, HK24 | 6600-3800 c.t. | 4000-5000 7500-10000 12000 | 175 | 150 | 60 | 4 1/4 | 3 1/2 | 3 3/4 | D |
| A-3113 | 18.00 | PP 800, 809, TZ-40, T-55, HK-54, RK-31, HY-40, 811, 807, 812 | 15000-6900c.t. | 3000-1000 5000-6000 | 250 | 300 | 175 | 4 3/8 | 3 3/4 | 5 3/8 | D |

UNIVERSAL MODULATION TRANSFORMERS Tapped Series-Parallel Coils Provide a Wide Range of Modulation Ratios

| Type No. | List Price | Pri. Impedance | Pri. M.A. per Side | Sec. Impedance | Max. Sec. M.A. † | Watts | Dimensions | | | Mtg. |
|----------|------------|----------------|--------------------|----------------|------------------|-------|------------|-------|-------|------|
| | | | | | | | H. | W. | D. | |
| A-3104 | \$8.75 | 2000-20000 | 50 | 2000-20000 | 50/100 | 15 | 3 3/16 | 2 5/8 | 2 3/4 | DL |
| A-3105 | 13.00 | 2000-20000 | 150 | 2000-20000 | 150/300 | 60 | 3 1/8 | 3 1/8 | 4 1/8 | DL |
| A-3106 | 18.50 | 2000-20000 | 220 | 2000-20000 | 220/440 | 125 | 4 5/8 | 3 1/8 | 4 5/8 | DL |
| A-4007 | 52.00 | 2000-20000 | 250 | 2000-20000 | 250/500 | 300 | 7 1/4 | 6 5/8 | 5 5/8 | H |

†Series/Parallel

POWER TRANSFORMERS Receiver Replacement Type Primary for 115 V., 60 Cy. Leads R.M.A. Color Coded—Mtg. Fig. C

| Type No. | List Price | H. V. Secondary | | Rectifier | | Fil. Wdgs. | | Mtg. Centers | Dimensions | | |
|----------|------------|--------------------|--------|-----------|------|------------|------|-----------------|------------|--------|---------|
| | | Volts | DC.M.A | Volts | Amp. | Volts | Amp. | | H. | W. | D. |
| *P-3045 | \$3.75 | 120 | 50 | | | 6.3 | 1.5 | 3 1/8 | 2 3/16 | 2 5/8 | 1 5/8 |
| P-3047 | 4.50 | 240-240 | 50 | | | 6.3 | 2.5 | 2 x 2 1/2 | 2 1/2 | 3 | 2 |
| P-3048 | 5.50 | 260-260 | 90 | | | 6.3 | 3.5 | 2 x 2 1/2 | 2 1/2 | 3 | 2 5/8 |
| P-2949 | 4.90 | 240-240 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2 x 2 1/2 | 2 1/2 | 3 | 2 1/2 |
| P-2965 | 5.25 | 325-325 | 40 | 5 | 2 | 2.5 c.t. | 4 | 2 x 2 1/2 | 2 1/2 | 3 | 2 3/4 |
| P-2966 | 7.25 | 350-350 | 70 | 5 | 3 | 2.5 c.t. | 9 | 2 1/4 x 2 13/16 | 2 13/16 | 3 3/8 | 3 5/8 |
| | | | | | | 2.5 c.t. | 3.5 | | | | |
| P-2967 | 8.00 | 350-350 | 90 | 5 | 3 | 2.5 c.t. | 12.5 | 2 1/2 x 3 1/8 | 3 1/8 | 3 3/4 | 4 1/16 |
| P-2968 | 10.50 | 400-400 | 110 | 5 | 3 | 2.5 c.t. | 15 | 3 x 3 3/4 | 3 3/4 | 4 1/2 | 3 13/16 |
| | | | | | | 2.5 c.t. | 3.5 | | | | |
| P-2950 | 5.15 | 325-325 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2 x 2 1/2 | 2 1/2 | 3 | 2 7/8 |
| P-2951 | 6.25 | 325-325 | 70 | 5 | 3 | 6.3 c.t. | 3.5 | 2 x 2 1/2 | 2 1/2 | 3 | 3 1/8 |
| P-2952 | 6.75 | 350-350 | 90 | 5 | 3 | 6.3 c.t. | 3.5 | 2 1/4 x 2 13/16 | 2 13/16 | 3 3/8 | 3 3/4 |
| P-2953 | 7.65 | 350-350 | 120 | 5 | 3 | 6.3 c.t. | 4.7 | 2 1/2 x 3 1/8 | 3 1/8 | 3 3/4 | 3 13/16 |
| P-2954 | 9.75 | 375-375 | 150 | 5 | 3 | 6.3 c.t. | 5 | 2 1/2 x 3 1/8 | 3 3/8 | 3 3/4 | 4 5/16 |
| P-2955 | 12.00 | 400-400 | 200 | 5 | 3 | 6.3 c.t. | 5 | 3 x 3 3/4 | 3 3/4 | 4 1/2 | 4 1/8 |
| P-2956 | 14.50 | 435-435 | 250 | 5 | 3 | 6.3 c.t. | 3 | 3 x 3 3/4 | 3 3/4 | 4 1/2 | 4 5/8 |
| | | (80-volt Bias Tap) | | 2.5 | 10 | 6.3 or 5 | 3 | | | | |
| P-2957 | 6.00 | 350-350 | 50 | 5 | 2 | 6.3 c.t. | 2.6 | 2 1/4 x 2 13/16 | 2 13/16 | 3 3/8 | 3 |
| P-2958 | 5.00 | 240-240 | 50 | 5 | 2 | 6.3 | 2.6 | 2 x 2 1/2 | 2 1/2 | 3 | 3 |
| ★P-3059 | 20.50 | 360-360 | 250 | 5 | 2 | 6.3 | 6 | 3 x 3 3/4 | 3 3/4 | 4 1/2 | 5 5/8 |
| | | | | 5 | 3 | 6.3 | 8 | | | | |
| ★P-3061 | 25.00 | 362-362 | 295 | 5 | 6 | 6.3 | 5 | 3 1/8 x 4 1/16 | 6 13/16 | 3 7/16 | 4 23/32 |
| | | | | 5 | 6 | 6.3 | 5 | | | | |
| | | | | 5 | 2 | 6.3 | 2 | | | | |
| ★P-3063 | 20.00 | 360-360 | 250 | 5 | 3 | 6.3 | 8 | 3 1/8 x 4 1/16 | 5 11/16 | 3 7/16 | 4 23/32 |
| | | | | 5 | 2 | 6.3 | 2 | | | | |
| | | | | 5 | 2 | 6.3 | 2 | | | | |

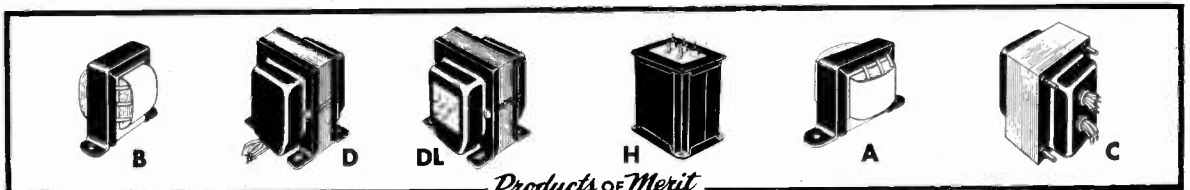
*For use with Half Wave Rectifier Type A Mtg.

Fully Shielded Upright Mounting Type—Mtg. Fig. D

| | | | | | | | | | | | |
|---------|--------|--------------------|-----|-----|----|-----------|-----|-----------------|-------|---------|---------|
| P-3147 | \$4.50 | 240-240 | 50 | | | 6.3 | 2.5 | 2 x 1 13/16 | 3 1/8 | 2 5/8 | 2 1/2 |
| P-3148 | 5.50 | 260-260 | 90 | | | 6.3 | 3.5 | 2 x 2 13/16 | 3 1/8 | 2 5/8 | 3 1/8 |
| P-3149 | 4.90 | 240-240 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2 x 1 13/16 | 3 1/8 | 2 5/8 | 2 5/8 |
| P-3150 | 5.15 | 325-325 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2 x 1 7/8 | 3 1/8 | 2 5/8 | 2 13/16 |
| P-3154 | 5.00 | 275-275 | 50 | 5 | 2 | 6.3 | 2.6 | 2 x 2 13/16 | 3 1/8 | 2 5/8 | 3 1/8 |
| P-3160 | 6.00 | 350-350 | 50 | 5 | 2 | 6.3 c.t. | 2.6 | 2 1/4 x 1 7/8 | 3 1/2 | 2 13/16 | 3 1/8 |
| P-3151 | 6.25 | 325-325 | 70 | 5 | 3 | 6.3 c.t. | 3.5 | 2 1/2 x 1 13/16 | 3 7/8 | 3 3/8 | 3 5/8 |
| P-3152 | 6.75 | 350-350 | 90 | 5 | 3 | 6.3 c.t. | 3.5 | 2 3/4 x 2 1/2 | 4 1/4 | 3 1/2 | 3 7/16 |
| P-3153 | 7.65 | 350-350 | 110 | 5 | 3 | 6.3 c.t. | 4.5 | 3 x 2 1/4 | 4 5/8 | 3 13/16 | 3 7/16 |
| P-3155 | 12.00 | 400-400 | 200 | 5 | 3 | 6.3 c.t. | 5 | 3 x 3 1/4 | 4 5/8 | 3 13/16 | 4 1/4 |
| P-3156 | 14.50 | 435-435 | 250 | 5 | 3 | 6.3 c.t. | 3 | 3 x 3 13/16 | 4 5/8 | 3 13/16 | 4 1/2 |
| | | (80-volt Bias Tap) | | 2.5 | 10 | 6.3 or 5 | 3 | | | | |
| ★P-3165 | 14.75 | 350-350 | 200 | 5 | 2 | 6.3 | 6 | 3 x 3 7/8 | 4 5/8 | 3 3/4 | 5 |
| | | | | 5 | 3 | 6.3 | 7 | | | | |
| ★P-3166 | 24.75 | 400-400 | 300 | 5 | 3 | 12.5 c.t. | 10 | 3 1/2 x 4 1/4 | 5 1/2 | 4 5/8 | 5 3/4 |
| | | | | 5 | 6 | | | | | | |
| ★P-3170 | 8.75 | 1750 | 2 | 2.5 | 2 | 6.3 | 9 | 2 x 1 13/16 | 3 1/8 | 2 5/8 | 2 7/8 |
| | | | | | | or 2.5 | 2 | | | | |
| ★P-3171 | 11.50 | 2500 | 5 | 2.5 | 2 | 6.3 | 3 | 2 1/2 x 2 13/16 | 3 7/8 | 3 3/8 | 3 3/8 |
| | | | | | | or 2.5 | 3 | | | | |

★Indicates TV Replacement.

All prices subject to trade discount, and change without notice.



Products of Merit



TRANSFORMERS

PLATE TRANSFORMERS For Small Transmitters. DC Voltage Ratings are Approx. Values Obtained at Output of a 2 Section Choke Input Filter Using Mercury Vapor Rectifier Tubes. Pri. is for 115 V. 60 cy.

| Type No. | List Price | Sec. Rms. Volts | Sec. DC Volts | DC Sec. M.A. | Dimensions | | | Mtg. |
|----------|------------|-------------------------------------|----------------------|--------------|------------|---------|-------|------|
| | | | | | H. | W. | D. | |
| P-3157 | \$11.50 | 660-660 † | 500 | 250 | 4 5/8 | 3 13/16 | 4 3/8 | D |
| P-3158 | 14.00 | 550-550 1080-1080 | 400 1000 † | 125 | 4 3/8 | 3 13/16 | 5 | D |
| P-3159 | 13.50 | 500-500 900-900 | 400 750 | 150 | 4 3/8 | 3 13/16 | 5 1/8 | D |
| P-3167 | 33.75 | 800-800 1450-1450 | 600 1200 | 225 | 4 3/8 | 3 13/16 | 5 1/8 | D |
| P-3168 | 42.50 | 1175-1175 2100-2100 | 1000 1750 | 300 | 5 3/4 | 6 1/8 | 4 | EH |
| P-4062 | 63.00 | 1800-1800 2900-2900 2385-2385 | 1500 2500 2000 | 300 | 5 3/4 | 6 1/8 | 4 1/2 | EH |
| | | | | | 8 1/2 | 6 1/2 | 5 5/8 | H |

†For dual operation with simultaneous use of both sec. ratings. †Has 40-volt bias tap.

FILAMENT TRANSFORMERS For Amplifier, Amateur, Industrial Use. Pri.: 115 Volts, 60 Cycles

| Type No. | List Price | Sec. Volts | Sec. Amp. | Insulation Volts | Dimensions | | | Mtg. |
|----------|------------|------------|-----------|------------------|------------|---------|-------|------|
| | | | | | H. | W. | D. | |
| P-2939 | \$3.25 | 2.5 c.t. | 5 | 2500 | 2 | 3 1/4 | 1 5/8 | A |
| P-2940 | 4.75 | 2.5 c.t. | 10 | 7500 | 3 | 3 5/8 | 2 1/8 | B |
| P-3042 | 5.25 | 2.5 c.t. | 10 | 10000 | 2 7/8 | 3 5/8 | 2 3/4 | EH |
| P-3040 | 3.50 | 5 c.t. | 3 | 2500 | 2 | 3 1/4 | 2 1/8 | A |
| P-2941 | 4.00 | 5 c.t. | 6 | 2500 | 2 1/4 | 3 1/4 | 1 7/8 | A |
| P-2942 | 5.75 | 5 c.t. | 12 | 2500 | 3 3/8 | 2 15/16 | 2 5/8 | A |
| P-2943 | 9.00 | 5 c.t. | 20 | 2500 | 3 3/8 | 3 1/8 | 2 5/8 | EV |
| P-2944 | 2.25 | 6.3 c.t. | 1 | 2500 | 1 3/8 | 2 1/8 | 3 | EV |
| P-2945 | 2.75 | 6.3 c.t. | 2 | 2500 | 2 | 2 1/8 | 1 1/2 | A |
| P-2946 | 3.25 | 6.3 c.t. | 3 | 2500 | 2 | 3 1/4 | 1 5/8 | A |
| P-2947 | 4.75 | 6.3 c.t. | 6 | 2500 | 3 | 3 1/4 | 1 7/8 | A |
| P-2948 | 6.25 | 6.3 c.t. | 10 | 2500 | 3 3/8 | 3 5/8 | 2 1/4 | B |
| P-2961 | 4.00 | 7.5 c.t. | 4 | 2500 | 2 5/8 | 2 15/16 | 2 7/8 | EV |
| P-2961 | 5.75 | 6.3 c.t. | 3 | 2500 | 3 | 3 5/8 | 1 7/8 | B |
| P-3041 | 5.75 | 6.3 c.t. | 3 | 2500 | 3 | 3 5/8 | 2 1/4 | B |
| P-3041 | 5.75 | 5 c.t. | 3 | 2500 | 2 1/2 | 4 | 2 3/8 | A |
| P-3143 | 7.00 | 6.3 c.t. | 3.6 | | | | | |
| P-3145 | 7.00 | 7.5 c.t. | 8 | 2500 | 3 1/2 | 2 15/16 | 3 3/8 | D |
| P-3146 | 8.50 | 10 c.t. | 5 | 2500 | 3 1/2 | 2 15/16 | 3 | D |
| P-3146 | 8.50 | 10 c.t. | 10 | 3000 | 3 7/8 | 3 1/8 | 3 5/8 | D |

VIBRATOR TRANSFORMERS For Operation From 6V Battery and Vibrator

| Type No. | List Price | Sec. DC Volts to Filter | Sec. M.A. | Dimensions | | | Mtg. |
|----------|------------|-------------------------|-----------|------------|-------|-------|------|
| | | | | H | W | D | |
| P-2969 | \$4.25 | 150 | 40 | 2 1/4 | 2 7/8 | 1 3/4 | B |
| P-2970 | 4.75 | 225 | 40 | 2 3/8 | 3 1/8 | 2 1/8 | B |
| P-2971 | 5.00 | 250 | 50 | 2 5/8 | 3 1/8 | 2 1/4 | B |
| P-2972 | 5.75 | 260 | 60 | 3 | 3 3/8 | 2 1/8 | B |
| P-3068 | 4.50 | 260 | 60 | 3 | 3 3/8 | 2 1/8 | B |
| P-4073 | 9.00 | 285 | 80 | 2 15/16 | 2 5/8 | 1 7/8 | C |
| P-4074 | 9.50 | 330 | 75 | 3 1/8 | 3 1/8 | 2 1/8 | HL |
| P-4074 | 9.50 | 330 | 100 | 3 3/4 | 3 1/8 | 2 3/8 | HL |

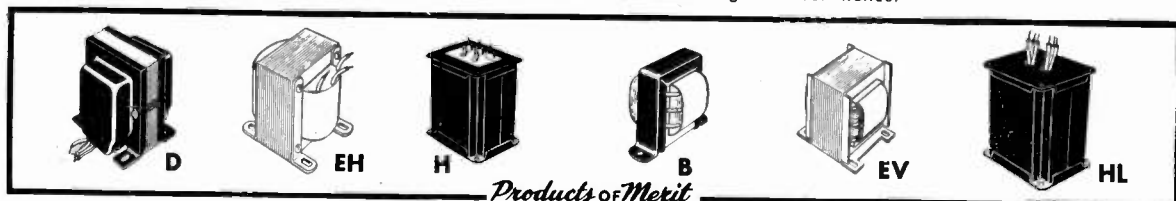
AC-DC VIBRATOR TRANSFORMER For Operation from 6 V. Battery and Vibrator or 115 V. 60 cy. Line

| Type No. | List Price | H.V. Secondary | | Filament | | Dimensions | | | Mtg. |
|----------|------------|----------------|-----|----------|------|------------|---------|---------|------|
| | | DC Volts | MA | Volts | Amps | H | W | D | |
| | | | | | | | | | |
| P-3176 | \$12.50 | 300 | 160 | 6.3 | 4.5 | 4 5/8 | 3 13/16 | 4 11/16 | D |
| P-4075 | 11.50 | 330 | 100 | 6.3 | 4 | 3 13/16 | 4 1/2 | 3 | HL |

PHOTO-FLASH POWER TRANSFORMER Primary for 117 V. 60 Cy. Line or 4 V. Battery Vibrator (or Charger Winding)

| Type No. | List Price | Secondary | | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|-----------|---------|--------------|------------|-------|---|------|
| | | AC Volts | DC M.A. | | H | W | D | |
| | | | | | | | | |
| P-3065 | \$6.50 | 1100 | 1.5 | 2 11/16 | 2 5/8 | 3 3/8 | 2 | B |

All prices subject to trade discount, and change without notice.



Products of Merit



TRANSFORMERS

STEP-DOWN AUTOTRANSFORMERS Input 220-250 V. 60 cy. Output 110-125 V. Pri. Cord and Plug. Sec. Receptacle.

| Type No. | List Price | Output Watts | Dimensions | | | Mtg. |
|----------|------------|--------------|------------|---------|-------|------|
| | | | H. | W. | D. | |
| P-3161 | \$8.00 | 80 | 3 1/2 | 2 15/16 | 3 | D |
| P-3162 | 10.75 | 150 | 3 7/8 | 3 3/16 | 3 5/8 | D |
| P-3163 | 13.75 | 250 | 4 5/8 | 3 13/16 | 4 | D |
| P-3164 | 17.75 | 500 | 4 9/8 | 3 15/16 | 4 3/8 | D |
| P-4065 | 41.00 | 1000 | 7 1/4 | 6 5/8 | 5 5/8 | H |

REPLACEMENT TYPE FILTER CHOKES Inductance Ratings are at 10 V. 60 cy. with Rated Current Flowing as Recommended by the R.M.A.

| Type No. | List Price | Inductance Henries | Current Rating M.A. | DC Res. Ohms | Volts Insul. | Mtg. Centers | Dimensions | | | Mtg. |
|----------|------------|--------------------|---------------------|--------------|--------------|--------------|------------|---------|-------|------|
| | | | | | | | H. | W. | D. | |
| ★C-2973 | \$1.25 | 1.5 | 10 | 95 | 1500 | 1 3/4 | 1 3/16 | 1 7/16 | 1 | A |
| C-2974 | 3.25 | 2.0 | 200 | 50 | 1500 | 2 1/16 | 2 | 3 1/4 | 1 5/8 | A |
| C-2977 | 1.75 | 4.5 | 50 | 200 | 1500 | 2 3/8 | 1 5/8 | 2 13/16 | 1 1/2 | A |
| C-2975 | 1.50 | 5.5 | 50 | 330 | 1500 | 2 | 1 5/8 | 2 3/8 | 1 1/8 | A |
| C-2976 | 1.50 | 8 | 10 | 500 | 1500 | 2 | 1 3/8 | 2 3/8 | 1 1/4 | A |
| C-2981 | 1.75 | 8.5 | 50 | 400 | 1500 | 2 3/8 | 1 5/8 | 2 15/16 | 1 1/2 | A |
| C-2985 | 1.75 | 20 | 15 | 900 | 1500 | 2 3/8 | 1 5/8 | 2 15/16 | 1 1/2 | A |
| C-2987 | 2.00 | 16 | 50 | 550 | 1500 | 2 1/16 | 2 | 3 1/4 | 1 5/8 | A |
| C-2990 | 2.75 | 15 | 7.5 | 400 | 1500 | 3 1/8 | 2 1/4 | 3 11/16 | 2 3/8 | A |
| ★C-2991 | 2.75 | 2 | 250 | 53 | 2000 | 3 3/16 | 2 5/16 | 3 11/16 | 2 | A |
| C-2993 | 3.50 | 10.5 | 110 | 220 | 1500 | 3 3/16 | 2 9/16 | 3 11/16 | 2 1/4 | A |

FILTER CHOKES For Small Transmitter and Amplifier Applications

| Type No. | List Price | Inductance Henries | Current Rating M.A. | DC Res. Ohms | Volts Insul. | Dimensions | | | Mtg. |
|----------|------------|--------------------|---------------------|--------------|--------------|------------|--------|-------|------|
| | | | | | | H. | W. | D. | |
| C-3192 | \$4.00 | 15 | 85 | 325 | 1500 | 3 1/8 | 2 5/8 | 2 5/8 | D |
| C-3193 | 4.00 | 10 | 110 | 200 | 1500 | 3 3/8 | 2 5/8 | 2 5/8 | D |
| C-3194 | 5.00 | 12 | 150 | 230 | 1500 | 3 1/2 | 2 1/16 | 3 1/8 | D |
| C-3195 | 7.00 | 15 | 150 | 180 | 2000 | 3 3/8 | 3 3/16 | 3 3/8 | D |
| C-3196 | 6.00 | 5 | 200 | 80 | 1500 | 3 1/2 | 2 1/16 | 3 1/8 | D |

FILTER SMOOTHING CHOKES For Transmitter Power Supplies

| | | | | | | | | | |
|--------|--------|----|-----|-----|------|-------|--------|-------|---|
| C-3180 | \$5.25 | 10 | 150 | 210 | 3000 | 3 1/8 | 2 5/8 | 2 3/4 | D |
| C-3181 | 6.50 | 10 | 200 | 140 | 3000 | 3 1/2 | 2 1/16 | 3 1/2 | D |
| C-3182 | 9.00 | 10 | 250 | 125 | 3000 | 3 3/8 | 3 3/16 | 3 3/8 | D |
| C-3183 | 9.50 | 8 | 300 | 80 | 3000 | 3 3/8 | 3 3/16 | 3 3/4 | D |

FILTER INPUT OR SWINGING CHOKES

| | | | | | | | | | |
|--------|--------|------|-----|-----|------|-------|--------|-------|---|
| C-3187 | \$5.25 | 4-16 | 150 | 210 | 3000 | 3 1/4 | 2 5/8 | 2 3/4 | D |
| C-3188 | 6.50 | 4-16 | 200 | 140 | 3000 | 3 1/2 | 2 1/16 | 3 1/2 | D |
| C-3189 | 9.00 | 4-16 | 250 | 125 | 3000 | 3 3/8 | 3 3/16 | 3 3/8 | D |
| C-3190 | 9.50 | 3-14 | 300 | 80 | 3000 | 3 3/8 | 3 3/16 | 3 3/4 | D |

ISOLATION TRANSFORMERS To Provide Isolation Between Line and Associated Circuits. Primary for 50-60 Cy. Static Shielding Between Primary and Secondary.

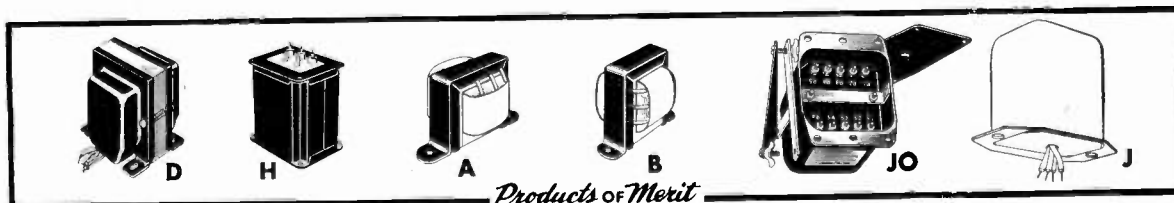
| Type No. | List Price | Primary Volts | Secondary Volts | Watts | Dimensions | | | Mtg. |
|----------|------------|---------------|-----------------|-------|------------|-------|-------|------|
| | | | | | H | W | D | |
| P-3096 | \$5.75 | 117 | 117 | 40 | 3 1/2 | 2 5/8 | 2 5/8 | B |
| P-3197 | 8.50 | 117 | 117 | 80 | 3 3/8 | 3 3/8 | 3 1/2 | D |

ISOLATION TRANSFORMERS Equipped with Line Cord and Standard Receptical

| Type No. | List Price | Primary Volts | Secondary Volts | Watts | Dimensions | | | Mtg. |
|----------|------------|---------------|-----------------|-------|------------|-------|-------|------|
| | | | | | H | W | D | |
| P-3172 | \$41.00 | 117 | 117 | 500 | 5 3/8 | 4 5/8 | 6 1/2 | D |
| P-3198 | 15.50 | 117 | 117 | 100 | 4 1/4 | 3 3/8 | 3 3/4 | D |
| P-3199 | 29.50 | 117 | 117 | 250 | 4 5/8 | 3 3/8 | 4 7/8 | D |

★ Indicates TV Replacement.

All prices subject to trade discount, and change without notice.



Products of Merit



TRANSFORMERS

HEAVY DUTY OUTPUT TRANSFORMERS High Level Type to Couple to Line or Voice Coil. Sec. Impedance 4-8-15-250-500 Ohms

| Type No. | List Price | Tube | Class | Pri. Impedance | Pri. Ma. per Side | Max. Watts | H | W | D | Mtg. |
|----------|------------|---------------------------|-----------------|----------------|-------------------|------------|-------|-------|-------|------|
| A-4027 | \$9.00 | Single 6L6, 2A3, 6A3, 6Y6 | A | 2500 | 80 | 8 | 3 3/8 | 3 1/4 | 2 3/8 | H |
| A-4028 | 12.00 | PP6V6, 6F6 | AB ₁ | 8000 C.T.* | 50 | 14 | 3 3/8 | 4 1/2 | 3 | H |
| A-4029 | 12.00 | PP6L6 | AB ₁ | 4300 C.T.* | 95 | 25 | 3 3/8 | 4 1/2 | 3 | H |
| A-4030 | 13.00 | PP6L6 | AB ₁ | 6600 C.T.* | 80 | 34 | 3 3/8 | 4 1/2 | 3 | H |
| A-4031 | 11.00 | PP6L6, 6Y6, PP2A3 | A | 5000 C.T. | 80 | 30 | 3 3/8 | 4 1/2 | 3 | H |
| | | 6A3, 6B4, 45, | B | | | | | | | |
| | | PP6N7, 46 | AB | | | | | | | |
| A-4032 | 11.50 | PP6F6, 2A5, 7C5 | AB ₂ | 10000 C.T. | 40 | 25 | 3 3/8 | 4 1/2 | 3 | H |
| A-4033 | 16.50 | Single 6N7, 6A6 | B | 3300 C.T. | 240 | 55 | 5 | 5 | 3 3/8 | H |
| | | P. P. Par. 6L6, PP807 | AB ₁ | | | | | | | |

* 10% Feedback Winding.

OUTDOOR TYPE UNIVERSAL LINE TRANSFORMER To Couple Various Line Impedances to a Voice Coil Universal Mounting Bracket

| Type No. | List Price | Ohms Impedance | | Watts | Mtg. Center Case | Dimensions | | | Mtg. Type |
|----------|------------|------------------------|--------|-------|------------------|------------|-------|-------|-----------|
| | | Primary | Sec. | | | H. | W. | D. | |
| A-4040 | \$8.75 | 250-500-1000-1500-2000 | 4-8-16 | 8 | 2 3/4 x 3 3/8 | 4 1/4 | 4 1/8 | 3 3/8 | JO |
| A-4041 | 9.75 | 250-500-1000-1500-2000 | 4-8-16 | 12 | 2 3/4 x 3 3/8 | 4 1/4 | 4 1/8 | 3 3/8 | JO |
| A-4042 | 13.75 | 250-500-1000-1500-2000 | 4-8-16 | 25 | 2 3/4 x 3 3/8 | 4 1/4 | 4 1/8 | 3 3/8 | JO |
| A-4043 | 9.75 | 45-50 | 4-8 | 12 | 2 3/4 x 3 3/8 | 4 1/4 | 4 1/8 | 3 3/8 | JO |

DRIVER TRANSFORMERS To Couple Driver Plates to Amplifier Grids

| Type No. | List Price | Driver Tube | Output Tube | Turn Ratio Pri. to 1/2 Sec. | Class | Pri MA | H | W | D | Mtg. |
|----------|------------|-------------------------------|--|--|-----------------|--------|---------|-------|-------|------|
| A-4020 | \$5.50 | 6C5, 30, 49, 1H4 | Single 1J6, 19, PP30, 49 | 2.5:1 | B | 10 | 2 13/16 | 2 1/8 | 2 | H |
| A-4021 | 6.50 | 6F6, 42, 2A5 | PP6F6, 6L6 | 1.7:1, 1.5:1, 1.3:1 | AB | 35 | 2 13/16 | 2 1/8 | 2 | H |
| A-4022 | 7.00 | 6A6, 6C5, 6N7 | Single 6A6, 6N7, PP46 | 5:1, 4:1, 3:1 | B | 20 | 2 13/16 | 2 1/8 | 2 | H |
| A-4023 | 8.50 | PP6A6, 53 | PP6N7, 6A6, 53 | 2.5:1 | B | 15 | 3 3/8 | 3 1/8 | 2 3/8 | H |
| A-4024 | 8.00 | PP6AC5, 6J5, 6N7, 46, 6F6, 59 | PP6L6, T21 | 5:1* | | | | | | |
| A-4025 | 11.50 | 2A5, 42 | PP46, 59 | 2.2:1 | B | 30 | 3 3/8 | 3 1/8 | 2 3/8 | H |
| A-4026 | 10.00 | 6F6, 2A5, 47, 42 | PP6L6, 807 | 1.4:1* | AB ₂ | 40 | 3 3/8 | 4 1/2 | 3 | H |
| | | PP2A3, 6L6, 45, 6V6, 6F6 | PP800, 203A, 811, 812, RK18, RK58, T20, TZ40, T55, 812A, 807, 809, 838, 845, 35, 100TH | 2:1 | B | 40 | 3 3/8 | 3 1/8 | 2 3/8 | H |
| A-4046 | 14.00 | Line to Grid | Class B Grids 15 watt capacity | 1:1.75, 1:3.5, 1:1, 1:1.25, 1:1.45, 1:1.75 | B | | 3 3/8 | 4 1/2 | 3 | H |
| A-4047 | 16.00 | Line to Grid | Class B Grids 30 watt capacity | 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3 | B | | 3 3/8 | 4 1/2 | 3 | H |

BLOCKING OSCILLATOR TRANSFORMER

* Split Secondary

| Type No. | List Price | Turns Ratio Primary to Secondary | Mtg. Centers | H. | W. | D. | Mtg. Type |
|--------------------|------------|----------------------------------|--------------|-------|-------|-------|-----------|
| *A-4000 Vertical | \$2.75 | 1:4.2 | 1 15/16 | 1 3/4 | 2 3/8 | 1 1/2 | J |
| *A-4002 Horizontal | 3.00 | 2:1 | 1 15/16 | 1 3/4 | 2 3/8 | 1 1/2 | J |

UNIVERSAL MODULATION TRANSFORMER Tapped Series-Parallel Coils Provide a Wide Range of Modulation Ratios

| Type No. | List Price | Pri. Impedance | Pri. M.A. per Side | Sec. Impedance | Max. Sec. M.A.† | Watts | H. | W. | D. | Mtg. |
|----------|------------|----------------|--------------------|----------------|-----------------|-------|-------|-------|-------|------|
| A-4004 | \$11.00 | 2000-20000 | 50 | 2000-20000 | 50/100 | 15 | 3 3/8 | 3 1/8 | 2 3/8 | H |
| A-4005 | 17.50 | 2000-20000 | 150 | 2000-20000 | 150/300 | 60 | 5 | 5 | 3 3/8 | H |
| A-4006 | 25.50 | 2000-20000 | 220 | 2000-20000 | 220/440 | 125 | 5 | 5 | 5 3/8 | H |
| A-4007 | 52.00 | 2000-20000 | 250 | 2000-20000 | 250/500 | 300 | 7 1/4 | 6 3/8 | 5 3/8 | H |

MODULATION TRANSFORMERS Compound Filled Cases—For Specific Applications

† Series/Parallel

| Type No. | List Price | Output Tubes | Ohms Impedance | | Max. MA | | Watts | Dimensions | | | Mtg. |
|----------|------------|---|-------------------------------------|-------------------------|---------|------|-------|------------|-------|-------|------|
| | | | Pri. | Sec. | Pri. | Sec. | | H | W | D | |
| A-4010 | \$6.50 | PP6AQ5, 6V6, 6F6 Single 6A6, 6N7, 53 | 10000 C.T. | 4000-5000 7500-10000 | 70 | 60 | 10 | 2 13/16 | 2 1/8 | 2 | H |
| A-4013 | 11.00 | PP2A3, 6A3, 6B4, 6L6 45, 46, 59 | 6000 C.T. 3800 C.T. 3000 C.T. | 5000-8000 10000 | 80 | 100 | 25 | 3 3/8 | 3 1/8 | 2 3/8 | H |
| A-4014 | 17.50 | PP6L6, 807, RK-41, HY56, HY61, HK24 | 6600-3800 C.T. | 4000-5000 7500-10000 | 175 | 150 | 60 | 5 | 5 | 3 3/8 | H |
| A-4015 | 20.00 | PP800, 809, TZ-40, T-55, HK-54, RK-31, HY-40, 811, 807, 812 | 15000 C.T. 6900 C.T. | 3000-4000 5000-6000 | 250 | 300 | 175 | 5 | 5 | 5 3/8 | II |

* Indicates TV Replacement.

All prices subject to trade discount, and change without notice.



Products of Merit



TRANSFORMERS

FILAMENT TRANSFORMERS For Amplifier, Amateur, Industrial Use, 115 Volts, 60 Cycles

| Type No. | List Price | Sec. Volts | Sec. Amp. | Insulation Volts | Dimensions | | | Mtg. |
|----------|------------|------------|-----------|------------------|------------|-------|----|------|
| | | | | | H. | W. | D. | |
| P-4049 | \$10.75 | 2.5 e.t. | 10 | 10,000 | 3 7/8 | 4 1/2 | 3 | H |

PLATE TRANSFORMERS For Small Transmitters, Amateur, or Experimental Use, DC Voltage Ratings are Approx. Values Obtained at Output of a 2 Section Choke Input Filter Using Mercury Vapor Rectifier Tubes. P.R.I. is for 115 V. 60 Cy.

| Type No. | List Price | Sec. Rms. Volts | Sec. DC Volts | Sec. DC MA | H | W | D | Mtg. |
|----------|------------|-------------------------|----------------|------------|-------|-------|--------|------|
| P-4057 | \$16.00 | {660-660 550-550 | ** {500 400 | 250 | 5 | 5 | 4 1/2 | H |
| P-4058 | 18.50 | {1080-1080 500-500 | * {1000 400 | 125 150 | 5 | 5 | 5 1/8 | H |
| P-4059 | 18.00 | {900-900 800-800 | {750 600 | 225 | 5 | 5 | 5 1/8 | H |
| P-4067 | 45.00 | {1450-1450 1175-1175 | {1200 1000 | 300 | 7 1/4 | 6 5/8 | 5 5/8 | H |
| P-4061 | 49.50 | {2100-2100 1800-1800 | {1750 1500 | 300 | 7 1/4 | 6 5/8 | 6 3/16 | H |
| P-4062 | 63.00 | {2900-2900 2385-2385 | {2500 2000 | 300 | 8 1/2 | 6 5/8 | 5 5/8 | H |

** Has 40V. Bias Tap.

* For Dual Operation with Simultaneous Use of Both Sec. Ratings.

STEP-DOWN AUTOTRANSFORMER Input 220-250 V. 60 Cy. Output 110-125 V. Pri.-Cord and Plug—Sec. Receptical

| Type No. | List Price | Output Watts | H. | W. | D. | Mtg. |
|----------|------------|--------------|-------|-------|-------|------|
| P-4065 | \$41.00 | 1000 | 7 1/4 | 6 5/8 | 5 5/8 | H |

FILTER SMOOTHING CHOKES

| Type No. | List Price | Inductance Henries | Current Rating MA | DC Res. Ohms | Volts Insul. | H | W | D | Mtg. |
|----------|------------|--------------------|-------------------|--------------|--------------|-------|--------|--------|------|
| C-4080 | \$8.00 | 10 | 150 | 210 | 3000 | 3 5/8 | 3 1/16 | 2 3/16 | H |
| C-4081 | 9.50 | 10 | 200 | 140 | 3000 | 3 7/8 | 4 1/2 | 3 | H |
| C-4082 | 12.00 | 10 | 250 | 125 | 3000 | 5 | 5 | 4 | H |
| C-4083 | 13.00 | 8 | 300 | 80 | 3000 | 5 | 5 | 4 | H |

FILTER INPUT OR SWINGING CHOKES

| | | | | | | | | | |
|--------|--------|------|-----|-----|------|-------|--------|--------|---|
| C-4087 | \$8.00 | 4-16 | 150 | 210 | 3000 | 3 5/8 | 3 1/16 | 2 3/16 | H |
| C-4088 | 9.50 | 4-16 | 200 | 140 | 3000 | 3 7/8 | 4 1/2 | 3 | H |
| C-4089 | 12.00 | 4-16 | 250 | 125 | 3000 | 5 | 5 | 4 | H |
| C-4090 | 13.00 | 3-14 | 300 | 80 | 3000 | 5 | 5 | 4 | H |

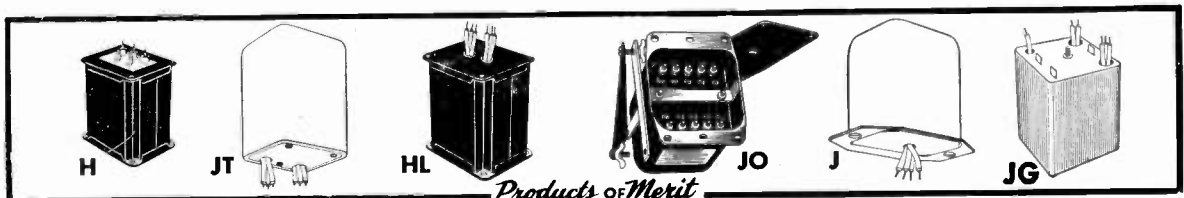
VIBRATOR TRANSFORMERS Sealed in Compound Filled Cases for Interference or Hash Reduction. For Operation from 6 V. Battery and Vibrator

| Type No. | List Price | Sec. DC Volts to Filter | Sec. MA | H | W | D | Mtg. |
|----------|------------|-------------------------|---------|-------|--------|--------|------|
| P-4069 | \$5.75 | 150 | 40 | 3 | 2 5/8 | 2 3/16 | JT |
| P-4070 | 6.00 | 225 | 40 | 3 | 2 5/8 | 2 3/16 | JT |
| P-4071 | 6.25 | 250 | 50 | 3 | 2 5/8 | 2 3/16 | JT |
| P-4072 | 8.25 | 260 | 60 | 3 3/4 | 3 5/8 | 2 5/8 | HL |
| P-4073 | 9.00 | 285 | 75 | 3 3/4 | 2 3/16 | 3 1/16 | HL |
| P-4074 | 9.50 | 330 | 100 | 3 3/4 | 3 1/16 | 2 1/16 | HL |
| P-4076 | 5.60 | 265 | 55 | 3 1/4 | 2 5/8 | 2 5/8 | JG |
| P-4077 | 6.00 | 280 | 65 | 3 1/4 | 2 1/4 | 2 5/8 | JT |
| P-4078 | 6.00 | 270 | 60 | 2 5/8 | 2 3/16 | 2 3/4 | JT |
| P-4079 | 6.50 | 270 | 75 | 3 1/2 | 2 3/8 | 2 1/2 | JT |

AC-DC VIBRATOR TRANSFORMER For Operation From 6 V. Battery and Vibrator or 115 V. 60 Cy. Line

| Type No. | List Price | H. V. Secondary | | Filament | | Dimensions | | | Mtg. |
|----------|------------|-----------------|-----|----------|-------|------------|-------|----|------|
| | | DC Volts | MA | Volts | Amps. | H. | W. | D. | |
| P-4075 | \$11.50 | 330 | 100 | 6.3 | 4 | 3 13/16 | 4 1/2 | 3 | HL |

All prices subject to trade discount, and change without notice.



Products of Merit

CREST TRANSFORMER CORP.



FIGURE S



FIGURE G



FIGURE E

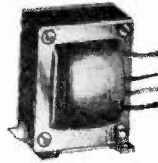
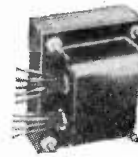


FIGURE P



AUDIO TRANSFORMERS

Driver

| Stock No. | Driver Tubes | Output Tubes | Class | Ratio Pri. to 1/2 Sec. | Pri. M.A. | Mtg. Fig. | Mtg. Ctrs. | Dimensions | | | Wt. Lbs. | List Price |
|-----------|---|--|----------|-------------------------|-----------|-----------|------------|------------|-------|-------|----------|------------|
| | | | | | | | | H. | W. | D. | | |
| 6115 | 1-30, 49, 6C5 1-1J6G | 19, 2-30, 49 | B | 2.4:1 | 8 | B | 2" | 1 7/8 | 2 3/8 | 1 3/8 | .7 | \$1.80 |
| 6118 | 1-33, 41, 42, 46, 59, 2A5, 6F6 | P.P. 46, 59 6L6, 6F6 | B AB2 | 2.2:1 | 32 | K | 2x1 1/2" | 3 3/8 | 2 5/8 | 2 5/8 | 2.6 | 3.80 |
| 6116 | 1-42, 45, 2A5, 6C5, 6F6, 6N7 | P.P. 42, 2A5, 6F6, 6L6, 6V6 | AB | 1.7:1 1.5:1 1.3:1 | 35 | A | 2 1/8" | 2 | 3/4 | 1 1/2 | 1.7 | 3.50 |
| 6117 | 1-42, 47, 2A5, 6F6 | P.P. 2A5, 6F6, 6L6 | AB2 | 1.4:1 | 40 | K | 2 1/4 x 2" | 3 1/2 | 3 | 3 1/8 | 3.5 | 5.50 |
| 6122 | P.P. 45, 2A3, 6F6, 6L6 | 35T, 203A, 800, 806, T20, T55, 100TL, RK57 | B | 3.2:1 2:1 | 40 | K | 2x1 3/4" | 3 1/8 | 2 5/8 | 2 5/8 | 2.7 | 5.25 |
| 6119 | P.P. 45, 6C5, 6F6, Tri. 59, 2A3, 4-2A3, 6L6 | 59, 805, 100TH, HY57, RK18, T240, P.P. 6L6, 4-46, 4-2A3 | A B | 5:1 4:1 3.2:1 | 60 | K | 2x1 3/4" | 3 1/8 | 2 5/8 | 2 5/8 | 2.7 | 5.50 |

Input or Microphone Mike to Grid

| Stock No. | Application | Ohms Impedance | | Turns Ratio | Mtg. Fig. | Mtg. Ctrs. | H. | W. | D. | Wt. Lbs. | List Price |
|-----------|-----------------------------------|----------------|-------------|-------------|-----------|------------|-------|-------|-------|----------|------------|
| | | Pri. | Sec. | | | | | | | | |
| 6100 | S.B. Mic. to Single or P.P. Grids | 100 | 400000/C.T. | 1:64 | F | 2 | 2 | 2 3/8 | 1 1/8 | .9 | \$2.15 |
| 6105 | D.B. Mike to Line | 200/50 | 500/125 | 1:1.68 | F | 2 3/8 | 2 3/8 | 2 7/8 | 2 7/8 | 1.8 | 4.20 |
| 6101 | Voice Coil to Grid | 3.2 CT | 38,000 | | F | 1 1/4 | 1 3/8 | 2 | 1 3/4 | .8 | 1.95 |
| 6103 | Low. Imp. Ribbon Mike to Grid | 150-250 CT | 53,000 | | F | 2 | 2 | 2 1/2 | 2 | 1.0 | 2.20 |

Interstage

| Stock No. | Ohms Pri. | Impedance Sec. | Turns Ratio | M.A. Pri. | Fig. Mtg. | Ctrs. Mtg. | Dimensions | | | Wt. Lbs. | List Price |
|-----------|-----------|----------------|-------------|-----------|-----------|------------|------------|-------|-------|----------|------------|
| | | | | | | | H. | W. | D. | | |
| 6302 | 10000 | 90000 | Spl. 3:1 | 10 | A | 2 | 1 3/8 | 2 3/8 | 1 1/2 | .6 | \$1.90 |
| 6301 | 10000 CT | 90000 CT | P.P. 3:1 | 10 | A | 2 3/8 | 1 3/8 | 2 3/8 | 1 1/2 | .8 | 2.15 |
| 6305 | 10000 | 125000 CT | P.P. 3.5:1 | 10 | A | 2 1/8 | 2 | 3 1/4 | 1 1/8 | 1.2 | 2.45 |
| 6306 | 10000 CT | 90000 CT | P.P. 3:1 | 10 | A | 2 1/8 | 2 | 3 1/4 | 1 1/8 | 1.2 | 2.45 |

Modulation

| Stock No. | Typical Tube | Impedance | | M.A. Pri. | D.C. Sec. | Class | Watts | Mtg. Fig. | Mtg. Ctrs. | Dimensions | | | Wt. Lbs. | List Price |
|-----------|---|--------------------|-----------------------|-----------|-----------|-------|-------|-----------|------------|------------|-------|-----|----------|------------|
| | | Pri. | Sec. | | | | | | | H. | W. | D. | | |
| 6850 | P.P. 6V6, 6F6, 1-53, 6A6, 6K6, 7C5, 6N7, 14C5 | 10000 CT | 7500 5500 3500 | 60 | 60 | A | 12 | F | 2 3/8 | 2 7/8 | 2 1/8 | 1.4 | \$2.65 | |
| 6851 | P.P. 6L6, 45, 50, 2A3, 6A3, 6F6, 6V6 | 6000 CT 3000 CT | 10000 7500 5000 | 100 | 100 | AB | 25 | K | 3 1/8 | 2 5/8 | 2 7/8 | 2.9 | 5.80 | |
| 6852 | P.P. 6L6, 46, HY56, 807 | 6600 CT | 12000 8000 4000 | 150 | 150 | AB | 40 | L | 4 1/4 | 3 5/8 | 4 5/8 | 6.4 | 9.95 | |

Output

| Stock No. | Typical Tube | Class | Ohms Impedance | | Pri. M.A. | Max. Watts | Mtg. Fig. | Mtg. Ctrs. | Dimensions | | | Wt. Lbs. | List Price |
|-----------|---|---------|--------------------------------------|-------------------|-----------|------------|-----------|---------------|------------|-------|-------|----------|------------|
| | | | Pri. | Sec. | | | | | H. | W. | D. | | |
| 6018 | P.P. 50L6, 25B5, 25AC5, 25L6, 6Y6, 6W6, 6V6 | AB | 4000 | 3.2 | 50 | 4 | A | 2 | 1 3/8 | 2 3/8 | 1 3/8 | .4 | \$1.35 |
| 6013 | Spl. 89, 95, 6F6, 6D5, 6B5, 12A6 | A | 7000 | 3-6 | 30 | 3 | A | 2 | 1 3/8 | 2 3/8 | 1 3/8 | .4 | 1.35 |
| 6012 | Spl. 1C5G, 1Q5G, 3A4, 1G5, 1S4, 3S4, 3Q5 | A | 8000 | 3.2 | 20 | 5 | A | 2 | 1 3/8 | 2 3/8 | 1 3/8 | .5 | 1.30 |
| 6008 | P.P. 1-19, 1-1J6G, 1-166G, 2-30, 49, 25A6 | B AB | 10000 | 4/8 | 30 | 8 | A | 2 1/8 | 2 | 3/4 | 1 1/8 | 1.0 | 1.80 |
| 6019 | P.P. 45, 6F6, 59B, 25A6, 6V6, 7C5, 71A | AB | 10000 | 3.2 | 45 | 10 | A | 2 1/8 | 2 | 3/4 | 1 1/8 | 1.0 | 1.85 |
| 6016 | P.P. 6F6, 6D5, 6AC5, 6K6, 6B5, 6AD7, 6N6, 7B5, 12A6, 18 | AB | 14000 | 3-6 | 42 | 10 | A | 2 1/8 | 2 | 3/4 | 1 1/8 | 1.0 | 2.15 |
| 6009 | P.P. 1B8, 1E7, 1F4, 1T5, 6G6, 1299, 1602 Spl. 6V7, 55, 85 | A | 25000 | 3.2 | 12 | 5 | A | 2 | 1 3/8 | 2 3/8 | 1 3/8 | .4 | 1.75 |
| 6026 | P.P. Par 4-6L6, P.P. 2-6L6, 45, 6A3 | AB1 | 3300 | 4/8/15 250/500 | 155 | 60 | K | 2 1/2 x 2 1/4 | 4 | 3/4 | 3/2 | 5.2 | 8.60 |
| 6021 | P.P. 6L6 | AB2 | 3800 | 4/8 15/500 | 115 | 60 | K | 2 1/2 x 2 1/8 | 4 | 3/4 | 3 3/8 | 4.6 | 7.00 |
| 6024 | P.P. 6L6, 2A3 | AB1 | 4300 | 4/8/15 250/500 | 95 | 25 | K | 2 1/4 x 2 | 3 1/2 | 2 1/8 | 3 | 3.6 | 6.65 |
| 6025 | P.P. 6L6, 6F6, 6AL6 | AB2 | 5500 | 4/8/15 250/500 | 90 | 40 | K | 2 1/2 x 2 | 4 | 3/4 | 3/4 | 4.7 | 7.90 |
| 6005 | Universal Spl. or P.P. | A | 4000/7000 8000/10000 14000 Ct. | Adj. .1-29 | 30 | 4 | C | 2 | 2 | 2 3/8 | 1 3/8 | .6 | 1.80 |
| 6000 | Universal Spl. or P.P. | A | 4000/7000 8000/10000 14000 Ct. | Adj. .1-29 | 35 | 8 | C | 2 3/8 | 1 3/8 | 2 7/8 | 1 3/4 | .7 | 1.90 |
| 6003 | Universal Spl. or P.P. | A | 4000/7000 8000/10000 14000 Ct. | Adj. .1-29 | 40 | 12 | D | 2 3/8 | 2 3/8 | 2 7/8 | 1 7/8 | 1.0 | 2.25 |
| 6004 | Universal Spl. or P.P. | A | 4000/7000 8000/10000 14000 Ct. | Adj. .1-29 | 40 | 18 | D | 2 1/8 | 2 5/8 | 3 1/8 | 2 1/4 | 1.5 | 2.60 |

WRITE FOR LATEST CATALOG SHOWING COMPLETE LINE



TRANSFORMERS

for REPLACEMENT AND SPECIAL PURPOSE
OUTPUT, POWER, VIBRATOR, FILAMENT and OPERATION of
WAR SURPLUS EQUIPMENTS

OUTPUT TRANSFORMERS

RECEIVER REPLACEMENT TYPE

To couple the plate or plates of the output stage to the speaker voice coil. Sec. impedance—3.5 ohms

| Type No. | List Price | Tube | Class | Pri. Impedance | Pri. M.A. | Max Watts | Mtg. Cntrs. | Mtg. Dimen. | | | Mtg. |
|----------|------------|--|-------|----------------|-----------|-----------|-------------|-------------|----------|--------|------|
| | | | | | | | | H. | W. | D. | |
| A-7001 | \$1.25 | Single 1C5-G, 1G5-G, 1G5, 1S4, 3Q4, 3S4, 6A4, 3Q5 | A | 8000 | 20 | 3 | 1 3/4" | 1 3/8" | 2 1/8" | 1 1/4" | A |
| A-7003 | 1.50 | Single 2A3, 6A3, 6B4, 6Y6, 25AC5, 25B6, 25N6, 25L6, 35A5, 35L6, 50L6, 48, 50B5, 35B5, 50A5 | A | 2000 | 60 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |
| A-7007 | 1.55 | Single 6V6, 7C5, 12A, 12A5, 25A6, 25A7, 35A5, 35L6, 31, 45, 50, 59 | A | 5000 | 40 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |
| A-7018 | 1.55 | Single 2A5, 6AC5, 6B5, 6F6, 6K6, 6N6, 7B5, 20, 31, 33, 42, 47, 50, 6V5 | A | 7000 | 30 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |
| A-7022 | 1.60 | Single 1C5, 1Q5, 3C5, 6A4, 6G6, 6N7, 6R7, 12A, 38, 41, 49, 3V4 | A | 10000 | 30 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |
| A-7023 | 2.30 | Single 19, 1G6, 1J6 PP 1H4, 30, 49 | B | 10000 c.t. | 40 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |
| A-7029 | 2.30 | PP 6V6, 7C5 | AB- | 10000 c.t. | 40 | 10 | 2 3/4" | 1 5/8" | 2 13/16" | 1 1/4" | A |
| A-7033 | 1.60 | Single 1D8, 7B5, 6K6, 6G6 | A | 12000 | 10 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |
| A-7041 | 1.60 | Single 1D8, 1F4, 1F5, 1J5, 1T5, 6V7, 12A7, 85 | A | 15000 | 10 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |
| A-7047 | 1.70 | Single 1A5, 1N6, 6V7, 85 PP 1E7, 1J5, 6G6, 3A4, 3V4 | A | 25000 c.t. | 10 | 5 | 2" | 1 3/8" | 2 3/8" | 1 1/4" | A |

POWER TRANSFORMERS

Replacement Type Pri. 115 V. 60 Cycle. Leads RMA Color Coded

| Type No. | List Price | H.V. Secondary | | Rectifier | | Fil. Wdgs. | | Mtg. Cntrs. | Mtg. Dimensions | | | Mtg. |
|----------|------------|----------------|---------|-----------|------|------------|------|-----------------|-----------------|--------|---------|------|
| | | Volts | De.M.A. | Volts | Amp. | Volts | Amp. | | H. | W. | D. | |
| P-6004 | \$ 4.85 | 240-240 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2" x 2 1/4" | 2 1/4" | 3" | 2 1/4" | C |
| P-6008 | 4.85 | 325-325 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2" x 2 1/4" | 2 1/4" | 3" | 2 1/4" | C |
| P-6009 | 6.35 | 350-350 | 70 | 5 | 3 | 6.3 c.t. | 2.5 | 2" x 2 1/4" | 2 1/4" | 3" | 3 3/8" | C |
| P-6013 | 6.70 | 350-350 | 90 | 5 | 3 | 6.3 c.t. | 3.5 | 2 1/4" x 2 1/4" | 2 1/4" | 3 3/8" | 3 3/8" | C |
| P-6021 | 7.45 | 350-350 | 120 | 5 | 3 | 6.3 c.t. | 4.7 | 2 1/4" x 3 1/4" | 3 1/4" | 3 3/8" | 3 1/4" | C |
| P-6027 | 9.40 | 375-375 | 150 | 5 | 3 | 6.3 c.t. | 5 | 2 1/4" x 3 1/4" | 3 1/4" | 3 3/4" | 4 1/16" | C |
| P-6032 | 10.90 | 400-400 | 200 | 5 | 3 | 6.3 c.t. | 5 | 3" x 3 3/4" | 3 3/4" | 4 1/2" | 4" | C |

FULLY SHIELDED UPRIGHT MOUNTING TYPE

| | | | | | | | | | | | | |
|--------|---------|---------|-----|---|---|----------|-----|-----------------|--------|--------|--------|---|
| P-6024 | \$ 5.85 | 240-240 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2" x 1 1/4" | 3 1/8" | 2 5/8" | 2 5/8" | B |
| P-6027 | 5.85 | 325-325 | 40 | 5 | 2 | 6.3 c.t. | 2 | 2" x 1 1/4" | 3 1/8" | 2 5/8" | 2 5/8" | B |
| P-6031 | 6.30 | 350-350 | 50 | 5 | 2 | 6.3 c.t. | 2.6 | 2 1/4" x 1 1/4" | 3 1/2" | 2 1/4" | 3 1/4" | B |
| P-6033 | 7.55 | 350-350 | 70 | 5 | 3 | 6.3 c.t. | 3 | 2 1/4" x 1 1/4" | 3 1/2" | 3 1/8" | 3 3/8" | B |
| P-6036 | 8.30 | 350-350 | 90 | 5 | 3 | 6.3 c.t. | 3.5 | 2 1/4" x 2 1/4" | 4 1/4" | 3 1/2" | 3 3/8" | B |
| P-6041 | 9.10 | 350-350 | 110 | 5 | 3 | 6.3 c.t. | 4.5 | 3" x 2 1/4" | 4 5/8" | 3 1/2" | 3 3/8" | B |
| P-6047 | 12.90 | 400-400 | 200 | 5 | 3 | 6.3 c.t. | 5 | 3" x 3 1/4" | 4 5/8" | 3 1/2" | 4 1/8" | B |

VIBRATOR TRANSFORMERS

For Operation from 6 V. Battery and Vibrator

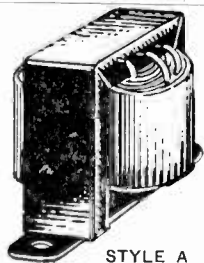
| Type No. | List Price | Sec. DC Volts to Filter | Sec. M.A. | Mtg. Dimensions | | | Mtg. |
|----------|------------|-------------------------|-----------|-----------------|--------|--------|------|
| | | | | H. | W. | D. | |
| VP-6201 | \$4.00 | 150 | 40 | 2 5/8" | 2 7/8" | 1 3/4" | D. |
| VP-6207 | 4.25 | 225 | 40 | 3 1/8" | 2 1/4" | 2 5/8" | E. |
| VP-6213 | 4.80 | 250 | 50 | 3 1/8" | 2 1/4" | 2 3/4" | E. |
| VP-6221 | 5.15 | 260 | 60 | 3 1/8" | 2 1/4" | 2 7/8" | E. |

MULTI-USE FILAMENT TRANSFORMERS

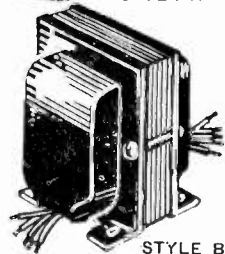
For Amplifier, Amateur, Industrial Use. Pri.: 115 Volts, 60 Cycles.
All windings center tapped except those marked *

| Type No. | Use #1 | Use #2 | Use #3 | Volt Insul. | Mtg. | Mtg. Dimensions | | | Ship. Wt. | List Price |
|----------|----------------------------|----------------|----------------|-------------|------|-----------------|--------|--------|-----------|------------|
| | | | | | | H. | W. | D. | | |
| F5049 | Two Sec. of 2.5 V. @ 2.5 A | 5 V. @ 2.5 A | 2.5 V. @ 5 A | 2000 | D | 2 5/8" | 2" | 1 7/8" | 3 | \$2.95 |
| F5050 | Two Sec. of 2.5 V. @ 5 A | 5 V. @ 2.5 A | 2.5 V. @ 10 A | 10000 | E | 3 3/8" | 2 1/2" | 3 1/4" | 3 | 4.60 |
| F5051 | Two Sec. of 2.5 V. @ 5 A | 5 V. @ 5 A | 2.5 V. @ 10 A | 2000 | E | 3 3/8" | 2 1/2" | 2 3/8" | 3 | 4.00 |
| F5052 | Two Sec. of 2.5 V. @ 7.5 A | 5 V. @ 7.5 A | 2.5 V. @ 15 A | 2000 | D | 3 1/8" | 2 1/2" | 2 1/4" | 5 | 4.75 |
| F5053 | Two Sec. of 5 V. @ 3.25 A | 10 V. @ 3.25 A | 5 V. @ 6.5 A | 2000 | D | 3 3/8" | 2 1/2" | 2 1/4" | 5 | 4.25 |
| F5054 | Two Sec. of 5 V. @ 10 A | 10 V. @ 10 A | 5 V. @ 20 A | 10000 | E | 4 3/8" | 3 1/8" | 3 1/8" | 7 | 8.50 |
| F5055 | Two Sec. of 5 V. @ 10 A | 10 V. @ 10 A | 5 V. @ 20 A | 2000 | E | 4 1/4" | 3 1/8" | 3 3/8" | 7 | 7.50 |
| F5056 | | | | 2000 | D | 1 5/8" | 1 5/8" | 1 3/4" | 2 | 2.90 |
| F5057 | | | | 2000 | D | 1 7/8" | 1 5/8" | 1 1/4" | 2 | 3.15 |
| F5058 | | | | 2000 | D | 2 1/8" | 2" | 1 7/8" | 3 | 3.50 |
| F5059 | | | | 2000 | D | 2 1/8" | 2" | 1 7/8" | 3 | 3.50 |
| F5060 | Two Sec. of 6.3 V. @ 1 A | 12.6 V. @ 1 A | 6.3 V. @ 2 A | 2000 | D | 3 1/8" | 2 1/2" | 2 1/2" | 5 | 5.55 |
| F5061 | Two Sec. of 6.3 V. @ 3 A | 12.6 V. @ 3 A | 6.3 V. @ 6 A | 2000 | D | 3 1/8" | 2 1/2" | 2 1/2" | 6 | 7.75 |
| F5062 | Two Sec. of 6.3 V. @ 5 A | 12.6 V. @ 5 A | 6.3 V. @ 10 A | 2000 | E | 3 1/8" | 3 3/8" | 2 1/2" | 6 | 7.75 |
| F5063 | Two Sec. of 7.5 V. @ 1.5 A | 15 V. @ 1.5 A | 7.5 V. @ 3 A | 2000 | D | 2 3/4" | 2 1/4" | 2 1/4" | 3 | 4.25 |
| F5064 | Two Sec. of 11 V. @ 2.3 A | 22 V. @ 2.3 A | 7.5 V. @ 4.6 A | 2000 | D | 3 1/8" | 2 1/2" | 2 1/4" | 5 | 5.25 |
| F5065 | Two Sec. of 11 V. @ 5 A | 22 V. @ 5 A | 11 V. @ 10 A | 2000 | E | 3 1/8" | 3 3/8" | 3 1/4" | 7 | 7.50 |
| F5066 | Two Sec. of 12 V. @ 3 A | 24 V. @ 3 A | 12 V. @ 6 A | 2000 | E | 3 1/8" | 3 3/8" | 2 1/2" | 6 | 7.25 |
| F5067 | One Sec. of 24 V. @ 3 A | | | 2000 | E | 3 1/8" | 3 3/4" | 2 5/8" | 2 1/2 | 6.50 |
| F5068 | One Sec. of 24 V. @ 1 A | | | 2000 | D | 2 3/4" | 3 1/4" | 2" | 1 1/4 | 4.00 |

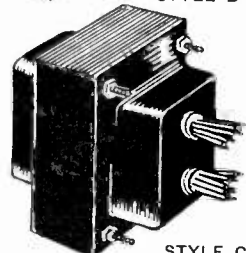
** Types F5004, F5005, F5006, F5009, and F5075 designed for operation of 12 and 24 volt War Surplus Equipment.



STYLE A



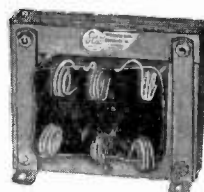
STYLE B



STYLE C



STYLE D



STYLE E

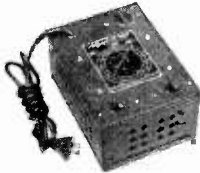


AUTO-TRANSFORMERS · ISOLATED PRIMARY TRANSFORMERS · METERED TRANSFORMERS

Adjust-A-Volt

VARIABLE TRANSFORMER

METERED MODELS



TYPES
PA-CA-MA-NA



TYPE
LR

AUTO-TRANSFORMER MODELS

| Type | Code Word | Input Voltage | Output Voltage | Output Rated | Amperes Max. | Maximum Rating (V.A.) | Overall Dimensions | Shipping Weight for One Unit | Net Prices | Type |
|-------|-----------|---------------|----------------|--------------|--------------|-----------------------|--------------------------|------------------------------|------------|-------|
| PA-5 | PADRE | 115 | 0-140 | 5.0 | 7.5 | 860 | 6 3/4" x 9 1/8" x 5" | 25 lbs. | \$23.50 | PA-5 |
| PA-10 | PAMMY | 115 | 0-140 | 10.0 | 15.0 | 1500 | 6 3/4" x 9 1/8" x 7 3/4" | 37 lbs. | 45.50 | PA-10 |
| CA-5 | CADDY | 115 | 0-280 | 2.5 | 3.5 | 430 | 6 3/4" x 9 1/8" x 7 3/4" | 30 lbs. | 27.50 | CA-5 |
| CA-10 | CAMMY | 115 | 0-280 | 5.0 | 7.5 | 860 | 6 3/4" x 9 1/8" x 9 5/8" | 40 lbs. | 52.50 | CA-10 |
| MA-5 | MADRE | 230 | 0-280 | 2.5 | 3.5 | 860 | 6 3/4" x 9 1/8" x 7 3/4" | 30 lbs. | 31.50 | MA-5 |
| MA-10 | MAMMY | 230 | 0-280 | 5.0 | 7.5 | 1500 | 6 3/4" x 9 1/8" x 9 5/8" | 40 lbs. | 52.50 | MA-10 |
| NA-5 | NADDDY | 230 | 0-140 | 5.0 | 7.5 | 860 | 6 3/4" x 9 1/8" x 5" | 27 lbs. | 28.50 | NA-5 |
| NA-10 | NAMMY | 230 | 0-140 | 10.0 | 15.0 | 1500 | 6 3/4" x 9 1/8" x 9 5/8" | 40 lbs. | 55.50 | NA-10 |

ISOLATION TRANSFORMER MODELS
ELECTROSTATICALLY SHIELDED

| | | | | | | | | | | |
|-------|-------|-----|--------|------|------|------|--------------------------|---------|---------|-------|
| LR-5 | LARKE | 115 | 70-140 | 5.0 | 5.0 | 500 | 6 3/4" x 9 1/8" x 6 7/8" | 27 lbs. | \$29.50 | LR-5 |
| LR-10 | LAMBE | 115 | 70-140 | 10.0 | 10.0 | 1000 | 6 3/4" x 9 1/8" x 11" | 40 lbs. | 57.50 | LR-10 |
| LR-22 | LOOSE | 230 | 70-140 | 5.0 | 5.0 | 500 | 6 3/4" x 9 1/8" x 6 7/8" | 27 lbs. | 31.50 | LR-22 |
| LR-24 | LOOKE | 230 | 70-140 | 10.0 | 10.0 | 1000 | 6 3/4" x 9 1/8" x 11" | 40 lbs. | 61.50 | LR-24 |

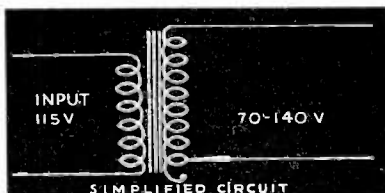
METERED AUTO-TRANSFORMER MODELS

| | | | | | | | | | | |
|--------|-------|-----|-------|------|------|------|--------------------------|---------|---------|--------|
| PAL-5 | PALLE | 115 | 0-140 | 5.0 | 7.5 | 860 | 6 3/4" x 9 1/8" x 6 7/8" | 27 lbs. | \$35.50 | PAL-5 |
| PAL-10 | LALLE | 115 | 0-140 | 10.0 | 15.0 | 1500 | 6 3/4" x 9 1/8" x 9 5/8" | 39 lbs. | 57.50 | PAL-10 |
| CAL-5 | MALLE | 115 | 0-280 | 2.5 | 3.5 | 430 | 6 3/4" x 9 1/8" x 9 5/8" | 32 lbs. | 38.50 | CAL-5 |
| CAL-10 | NALLE | 115 | 0-280 | 5.0 | 7.5 | 860 | 6 3/4" x 9 1/8" x 11" | 42 lbs. | 64.50 | CAL-10 |
| NAL-5 | QALLE | 230 | 0-280 | 2.5 | 3.5 | 860 | 6 3/4" x 9 1/8" x 9 5/8" | 32 lbs. | 43.50 | NAL-5 |
| MAL-10 | RALLE | 230 | 0-280 | 5.0 | 7.5 | 1500 | 6 3/4" x 9 1/8" x 11" | 42 lbs. | 64.50 | MAL-10 |
| NAL-5 | TALLE | 230 | 0-140 | 5.0 | 7.5 | 860 | 6 3/4" x 9 1/8" x 7 3/4" | 29 lbs. | 40.50 | NAL-5 |
| NAL-10 | SALLE | 230 | 0-140 | 10.0 | 15.0 | 1500 | 6 3/4" x 9 1/8" x 11" | 42 lbs. | 67.50 | NAL-10 |

METERED ISOLATION TRANSFORMER MODELS
ELECTROSTATICALLY SHIELDED

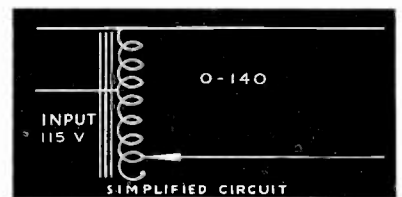
| | | | | | | | | | | |
|--------|-------|-----|-------|------|------|------|--------------------------|---------|---------|--------|
| LRL-5 | BARKE | 115 | 0-140 | 5.0 | 5.0 | 500 | 6 3/4" x 9 1/8" x 6 7/8" | 29 lbs. | \$41.50 | LRL-5 |
| LRL-10 | BAMBE | 115 | 0-140 | 10.0 | 10.0 | 1000 | 6 3/4" x 9 1/8" x 11" | 42 lbs. | 69.50 | LRL-10 |
| LRL-22 | BOJSE | 230 | 0-140 | 5.0 | 5.0 | 500 | 6 3/4" x 9 1/8" x 6 7/8" | 29 lbs. | 43.50 | LRL-22 |
| LRL-24 | BOJCE | 230 | 0-140 | 10.0 | 10.0 | 1000 | 6 3/4" x 9 1/8" x 11" | 42 lbs. | 73.50 | LRL-24 |

ISOLATED TRANSFORMER



LR and LRL* MODELS
*** 0-140 volts**

AUTO-TRANSFORMER



PA-CA-MA-NA-PAL-CAL-MAL-NAL MODELS

MANUFACTURED UNDER U. S. PATENT 2,009,013 AND OTHER PATENTS PENDING



TRANSFORMERS

STEP

DOWN

UP

STEP

ISOLATION AND LINE CORRECTION

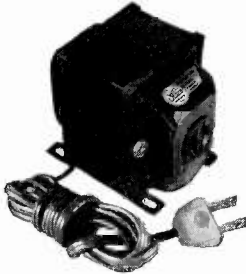


FIG. 1



FIG. 2

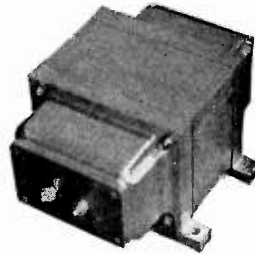


FIG. 3



FIG. 4

STEP-DOWN AUTOTRANSFORMERS

Input 220-240 V. 60 cy. Output 115 V. Pri. Cord and Plug Sec. Receptacle

| Cat. No. | Code | Mount Fig. No. | Cap. in Watts | Input, Volts | Output, Volts | Cycles | Dimensions in Inches | | | Net Wt. in Lbs. | List Price | Cat. No. |
|----------|--------|----------------|---------------|--------------|---------------|--------|----------------------|--------|---------|-----------------|------------|----------|
| | | | | | | | H. | W. | D. | | | |
| SB-0075 | STEBBA | 1 | 75 | 200 240 | 115 | 50/60 | 3 1/8" | 2 5/8" | 3 3/4" | 3 1/2 | \$ 7.00 | SB-0075 |
| SB-0150 | STECA | 1 | 150 | 200 240 | 115 | 50/60 | 3 7/8" | 3 1/4" | 3 5/8" | 4 1/2 | 9.25 | SB-0150 |
| SB-0250 | STEDA | 1 | 250 | 200 240* | 115 | 50/60 | 4 1/4" | 3 7/8" | 4 3/8" | 8 1/2 | 13.50 | SB-0250 |
| SB-0500 | STEFA | 1 | 500 | 200 240* | 115 | 50/60 | 4 3/4" | 3 7/8" | 6 1/8" | 12 1/2 | 22.50 | SB-0500 |
| SB-1000 | STEGA | 3 | 1000 | 200 240* | 115 | 50/60 | 4 7/8" | 7 1/4" | 9" | 23 1/2 | 38.50 | SB-1000 |
| SB-2000 | STELA | 3 | 2000 | 200 240* | 115 | 50/60 | 5 1/4" | 8 5/8" | 11 1/4" | 40 1/2 | 61.90 | SB-2000 |

* These models have primary taps of 200-220-240 Volts. Simply remove cover plate (see Figure 2) and connect to required taps.

LINE CORRECTION STEP-UP AUTOTRANSFORMERS

Models SU 100/105 Volt. Input. Models RU 200/210 Volt Input
All SU Models Boost Input 10 Volts. All RU Models Boost Input 20 Volts

| SU/RU | Code | Mount | Cap. in Watts | Input, Volts | Output, Volts | Cycles | H. | W. | D. | Net Wt. in Lbs. | List Price | SU/RU |
|---------|-------|-------|---------------|--------------|---------------|--------|--------|--------|--------|-----------------|------------|---------|
| SU-0100 | SUBAT | 1 | 100 | 100/110 | 110/120 | 50/60 | 3 1/8" | 2 5/8" | 2 7/8" | 2 3/4 | \$ 5.15 | SU-0100 |
| SU-0250 | SUCAT | 1 | 250 | 100/110 | 110/120 | 50/60 | 3 1/8" | 2 5/8" | 3 3/4" | 3 1/2 | 7.35 | SU-0250 |
| SU-0500 | SUDAT | 1 | 500 | 100/110 | 110/120 | 50/60 | 3 7/8" | 3 1/4" | 3 1/4" | 4 3/8 | 8.85 | SU-0500 |
| SU-1000 | SUFAT | 1 | 1000 | 100/110 | 110/120 | 50/60 | 4 3/8" | 3 7/8" | 4 1/8" | 8 1/2 | 17.65 | SU-1000 |
| SU-2000 | SUGAT | 1 | 2000 | 100/110 | 110/120 | 50/60 | 4 5/8" | 3 7/8" | 5 5/8" | 14 1/2 | 35.40 | SU-2000 |
| RU-0100 | SREBA | 1 | 100 | 200/210 | 220/230 | 50/60 | 3 1/8" | 2 5/8" | 2 7/8" | 2 3/4 | 5.15 | RU-0100 |
| RU-0250 | SRECA | 1 | 250 | 200/210 | 220/230 | 50/60 | 3 1/8" | 2 5/8" | 3 3/4" | 3 1/2 | 7.35 | RU-0250 |
| RU-0500 | SREDA | 1 | 500 | 200/210 | 220/230 | 50/60 | 3 7/8" | 3 1/4" | 3 1/4" | 4 3/8 | 8.85 | RU-0500 |
| RU-1000 | SREFA | 1 | 1000 | 200/210 | 220/230 | 50/60 | 4 3/8" | 3 7/8" | 4 1/8" | 8 1/2 | 17.65 | RU-1000 |
| RU-2000 | SREGA | 1 | 2000 | 200/210 | 220/230 | 50/60 | 4 5/8" | 3 7/8" | 5 5/8" | 14 1/2 | 35.40 | RU-2000 |

ISOLATION TRANSFORMERS

All Models 115 V. Input. 115 V. Output. Electrostatically Shielded.

| SI | Code | Mount | Cap. in Watts | Input, Volts | Output, Volts | Cycles | H. | W. | D. | Net Wt. in Lbs. | List Price | SI |
|--------|-------|-------|---------------|--------------|---------------|--------|----------|---------|--------|-----------------|------------|--------|
| SI-050 | SICAR | 1 | 50 | 115 | 115 | 50/60 | 3 17/32" | 2 7/8" | 3" | 4 1/2 | \$ 7.50 | SI-050 |
| SI-100 | SICER | 1 | 100 | 115 | 115 | 50/60 | 3 23/32" | 3 3/32" | 3 5/8" | 7 1/4 | 14.50 | SI-100 |
| SI-250 | SICOR | 1 | 250 | 115 | 115 | 50/60 | 4 3/4" | 3 7/8" | 5 1/8" | 14 1/2 | 27.50 | SI-250 |

LINE VOLTAGE ADJUSTORS, METERED

8 Position Rotary Switch Corrects Low or High Line to 115 V. from 85-95-105-115-125-135 V-AUTOTRANSFORMER

| LA | Code | Mount | Cap. in Watts | Input, Volts | Output, Volts | Cycles | H. | W. | D. | Net Wt. in Lbs. | List Price | LA |
|--------|-------|-------|---------------|--------------|---------------|--------|--------|--------|----|-----------------|------------|--------|
| LC-150 | LABAD | 4 | 150 | 85-135 | 115 | 50/60 | 6 1/2" | 4 3/8" | 5" | 7 3/4 | \$24.75 | LC-150 |
| LC-350 | LAFAD | 4 | 350 | 85-135 | 115 | 50/60 | 6 1/2" | 4 3/8" | 5" | 10 3/4 | 31.50 | LC-350 |
| LC-500 | LAJAD | 4 | 500 | 85-135 | 115 | 50/60 | 6 1/2" | 4 3/8" | 5" | 11 1/2 | 37.50 | LC-500 |

STACO Transformers are compact and modern in design. Only the highest quality silicon lamination steel is used which assures cool operating transformers. Each coil is layer wound with the best quality enameled wires, each layer is insulated with heavy insulating material, each coil is varnished impregnated and high temperature baked. High Voltage Breakdown Test is performed on each coil and transformer in accordance with existing RMA Specs. This combination of high quality materials plus the finest workmanship is assurance of better and lasting performance at highest operating efficiency, yet costs no more than average.

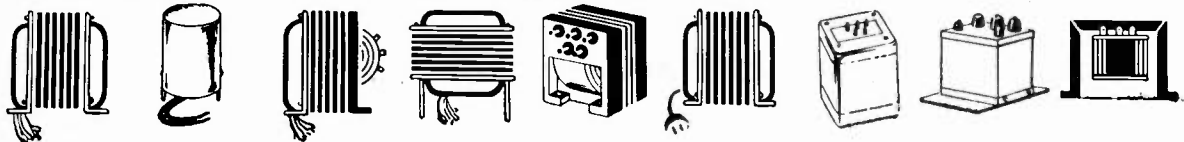
Finishes: Mount type #1, Black baked enamel, Mount type #2, Black baked enamel, Mount type #3, Natural Buffed Aluminum, Mount type #4, Black Wrinkle baked enamel.



PEERLESS ELECTRICAL PRODUCTS DIVISION TRANSFORMERS



1161 N. VINE STREET
HOLLYWOOD 38, CALIF.
161 SIXTH AVENUE
NEW YORK 13, N. Y.



Peerless Electrical Products Division of Altec Lansing Corporation presents two new lines of transformers. The standard commercial line includes power, filament, plate, isolation, television, input, interstage, bridging, output, impedance matching transformers and power chokes. The commercial line of audio transformers have a flat frequency response within ± 1 db from 30 cycles to 15,000 cycles, the power transformers are conservatively rated for a maximum heating rise of 55°C., and the output transformers are conservatively rated

to give full rated power within ± 3 db from 30 cycles to 10,000 cycles.

The superb new audio line of 20-20 transformers covers input, interstage, bridging, output and impedance matching transformers which are unsurpassed in any market. The 20-20 line of audio transformers have a flat frequency response within ± 1 db from 20 cycles to 20,000 cycles and have good transmission up to 50 KC. The output transformers are conservatively rated to give full rated power within ± 3 db from 20 cycles to 20,000 cycles.

* Suffix Letter on Type Number Indicates Case Style.

COMBINATION PLATE AND FILAMENT TRANSFORMERS

| Type Number* | High Voltage Secondary | | DC MA. | Filament Current, Amperes | | | Dimensions, Inches | | | Weight Lbs. | List Price | |
|--------------|------------------------|--------|----------|---------------------------|------|-------------|--------------------|-------|-------|-------------|------------|-------|
| | AC Volts | DC MA. | | 2.5 V. C.T. | 5 V. | 6.3 V. C.T. | Height | Depth | Width | | | |
| R-080-A | 275-0-275 | | 20 | | | 2. | 3 1/8 | 2 3/8 | 2 3/8 | 2 1/4 | \$8.75 | |
| R-080-Q | 275-0-275 | | 20 | | | 2. | 4 1/8 | 3 3/8 | 3 1/8 | 3 | 18.00 | |
| R-160-A | 275-0-275 | | 40 | | | 2. | 3 1/8 | 3 1/8 | 2 3/8 | 2 3/4 | 7.10 | |
| R-160-G | 275-0-275 | | 40 | | | 2. | 3 3/8 | 3 1/8 | 2 3/8 | 2 3/4 | 7.10 | |
| R-196-A | 300-0-300 | | 50 | | | 2. | 3 1/8 | 3 3/8 | 2 3/8 | 3 1/4 | 7.90 | |
| R-196-G | 300-0-300 | | 50 | | | 2. | 3 5/8 | 3 1/8 | 2 3/8 | 3 1/4 | 7.90 | |
| R-319-A | 325-0-325 | | 70 | 7.5 | | 3. | 3 1/2 | 3 5/8 | 2 7/8 | 4 | 9.00 | |
| R-320-A | 325-0-325 | | 70 | | | 3. | 3 1/2 | 3 5/8 | 2 7/8 | 4 | 8.60 | |
| R-320-G | 325-0-325 | | 70 | | | 3. | 3 5/8 | 3 1/8 | 2 7/8 | 4 | 8.60 | |
| R-399-A | 350-0-350 | | 90 | 10. | | 3. | 4 1/8 | 3 5/8 | 3 3/4 | 6 1/4 | 9.85 | |
| R-400-A | 350-0-350 | | 90 | | | 3. | 4. | 3 5/8 | 3 3/4 | 6 1/4 | 9.50 | |
| R-400-G | 350-0-350 | | 90 | | | 3. | 4 1/8 | 4 1/8 | 3 5/8 | 6 1/4 | 9.50 | |
| R-400-Q | 350-0-350 | | 90 | | | 3. | 4. | 4 1/8 | 4 1/8 | 7 1/2 | 19.00 | |
| R-401-A | 350-0-350 | | 90 | 3.5 | | 3. | 4 3/8 | 3 5/8 | 3 3/4 | 6 1/4 | 9.50 | |
| R-479-A | 350-0-350 | | 120 | 12.5 | | 3. | 4 3/8 | 3 7/8 | 3 3/4 | 6 3/4 | 11.15 | |
| R-480-A | 350-0-350 | | 120 | | | 3. | 4 3/8 | 3 3/8 | 3 3/4 | 6 3/4 | 10.90 | |
| R-480-G | 350-0-350 | | 120 | | | 3. | 4 3/8 | 4 1/8 | 3 5/8 | 6 3/4 | 10.90 | |
| R-480-Q | 350-0-350 | | 120 | | | 3. | 5. | 4 3/8 | 4 1/8 | 8 | 21.00 | |
| R-481-A | 350-0-350 | | 120 | 3.5 | | 3. | 4 3/8 | 3 7/8 | 3 3/4 | 6 3/4 | 11.25 | |
| R-559-A | 400-0-400 | | 200 | 5. - 10. | | 3. | 5 | 4 7/8 | 4 3/8 | 11 3/4 | 16.75 | |
| R-560-A | 400-0-400 | | 200 | | | 3. | 5 | 4 7/8 | 4 3/8 | 11 3/4 | 15.50 | |
| R-560-Q | 400-0-400 | | 200 | | | 3. | 6 | 5 1/8 | 5 1/8 | 17 | 27.00 | |
| R-561-A | 400-0-400 | | 200 | | | 3. | 5 | 4 7/8 | 4 3/8 | 11 3/4 | 16.75 | |
| R-640-A | 575-0-575 | | 225 | | | 3. | 5 | 6 | 4 3/8 | 15 1/4 | 19.50 | |
| R-720-A | 750-700-0-700-750 | | 200-250† | | | 3. | 5 | 6 1/4 | 4 3/8 | 16 1/2 | 23.00 | |
| R-800-A | 400-0-400 | | 300 | | | 4. | 4. - 5. | 5 | 6 1/4 | 4 3/8 | 16 1/2 | 24.00 |

†Choke input only.

CATHODE RAY AND TELEVISION

| Type Number* | High Voltage Secondary | | DC Volts | Filament Current, Amperes | | | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|------------------------|--------|----------|---------------------------|--------|---------------|--------------------|-------|-------|-------------|------------|
| | AC Volts | DC MA. | | Rect. 2.5 V. | 6.3 V. | Tapped 2.5 V. | Height | Depth | Width | | |
| R-870-A | 1775 | | 2500 | 1.75 | .6 | 2.1 | 4 3/8 | 3 3/8 | 3 3/4 | 6 1/4 | \$15.00 |
| R-960-A | 4600 | | 6500 | 1.75 | .6 | 2.1 | 4 3/8 | 4 1/2 | 3 3/4 | 9 1/4 | 24.75 |

PLATE TRANSFORMERS

| Type Number* | Secondary AC Volts | DC Volts | | DC MA. | Primary Volts 50-60 Cycle | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|---------------------------------|----------------|------|--------|---------------------------|--------------------|--------|-------|-------------|------------|
| | | Choke Input | ICAS | | | CCS | Height | Depth |  |  | Width |
| P-110-K | 900-725-0-725-900 | 600-750 | 425 | 300 | 117 | 7 | 8 | 5 3/4 | 25 | \$37.00 |
| P-110-S | 900-725-0-725-900 | 600-750 | 425 | 300 | 117 | 9 | 8 | 6 1/4 | 34 | 48.00 |
| P-330-K | 1175-880-0-880-1175 | 750-1000 | 425 | 300 | 117 | 7 | 8 1/2 | 5 3/4 | 27 | 40.00 |
| P-330-S | 1175-880-0-880-1175 | 750-1000 | 425 | 300 | 117 | 9 | 8 | 6 1/4 | 37 | 58.00 |
| P-440-K | 1750-1450-0-1450-1750 | 1250-1500 | 450 | 325 | 117-234 | 7 | 10 | 7 3/4 | 47 | 60.00 |
| P-440-S | 1750-1450-0-1450-1750 | 1250-1500 | 450 | 325 | 117-234 | 9 | 8 | 8 1/4 | 60 | 85.00 |
| P-550-K | 2300-1725-0-1725-2300 | 1500-2000 | 550 | 400 | 117-234 | 7 | 10 3/4 | 7 3/4 | 57 | 80.00 |
| P-550-S | 2300-1725-0-1725-2300 | 1500-2000 | 550 | 400 | 117-234 | 10 | 9 | 8 1/4 | 75 | 115.00 |
| P-660-K | 2850-2275-0-2275-2850 | 2000-2500 | 625 | 450 | 117-234 | 9 1/4 | 11 1/2 | 9 1/4 | 70 | 110.00 |
| P-660-S | 2850-2275-0-2275-2850 | 2000-2500 | 625 | 450 | 117-234 | 12 1/4 | 11 | 10 | 100 | 160.00 |
| P-770-K | 3375-2800-2250-0-2250-2800-3375 | 2000-2500-3000 | 800 | 600 | 117-234 | 9 1/4 | 13 | 9 1/4 | 92 | 200.00 |
| P-770-S | 3375-2800-2250-0-2250-2800-3375 | 2000-2500-3000 | 800 | 600 | 117-234 | 12 1/4 | 11 | 10 | 120 | 260.00 |
| P-880-K | 3350-2800-2250-0-2250-2800-3350 | 2000-2500-3000 | 1250 | 1000 | 117-234 | 9 1/4 | 15 1/4 | 9 1/4 | 135 | 245.00 |
| P-880-S | 3350-2800-2250-0-2250-2800-3350 | 2000-2500-3000 | 1250 | 1000 | 117-234 | 12 1/4 | 14 | 10 | 180 | 360.00 |

VIBRATOR TRANSFORMERS

| Type Number* | Secondary AC Volts | DC Volts | DC MA. | Primary Volts 50-60 Cycle | Dimensions, Inches | Weight Lbs. | List Price |
|--------------|--------------------------------------|----------|--------|------------------------------|--------------------|-------------|------------|
| | | | | | Height Depth Width | | |
| V-950-A | | 180 | 40 | 6-8 V. DC 115 Cycle Vibrator | 2 5/8 2 1/2 2 1/4 | 1 | \$5.70 |
| V-970-A | | 300 | 80 | 6-8 V. DC 115 Cycle Vibrator | 3 3/8 3 3/8 2 3/8 | 3 1/4 | 7.25 |
| V-980-A | Separate Primary for 117 V. 50/60 C. | 350 | 135 | 6-8 V. DC 115 Cycle Vibrator | 6 4 1/2 4 3/8 | 10 | 12.50 |



**PEERLESS ELECTRICAL
PRODUCTS DIVISION
TRANSFORMERS**



1161 N. VINE STREET
HOLLYWOOD 38, CALIF.
161 SIXTH AVENUE
NEW YORK 13, N. Y.

SMOOTHING CHOKES

| Type Number* | Current DC MA. | Inductance Henries | Resistance Ohms | Test Volts R.M.S. | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|----------------|--------------------|-----------------|-------------------|--------------------|--------|-------|-------------|------------|
| | | | | | Height | Depth | Width | | |
| C-065-X | 20 | 25 | 1800 | 1500 | 1 1/8 | 2 1/2 | 1 1/2 | 3/8 | \$1.90 |
| C-130-X | 40 | 15 | 950 | 1500 | 1 5/8 | 2 7/8 | 1 5/8 | 1/2 | 2.00 |
| C-195-X | 50/70 | 15/10 | 860 | 1500 | 2 | 3 1/2 | 2 | 1 | 2.50 |
| C-305-A | 90 | 10 | 285 | 1500 | 2 1/8 | 2 1/8 | 2 1/4 | 1 5/8 | 3.55 |
| C-305-X | 90 | 10 | 285 | 1500 | 2 3/8 | 3 3/4 | 2 1/4 | 1 1/2 | 2.85 |
| C-325-A | 120 | 10 | 240 | 1500 | 3 3/8 | 2 7/8 | 2 7/8 | 2 1/4 | 4.90 |
| C-325-X | 120 | 10 | 240 | 1500 | 2 3/8 | 4 1/4 | 2 1/2 | 2 1/8 | 3.95 |
| C-390-A | 200 | 10 | 150 | 1500 | 4 3/8 | 3 1/4 | 3 3/4 | 5 1/2 | 6.80 |
| C-455-A | 250 | 10 | 110 | 2500 | 4 3/8 | 3 3/4 | 3 3/4 | 6 1/2 | 9.55 |
| C-520-A | 300/325 | 10/8.5 | 110 | 4100 | 5 | 4 1/4 | 4 3/8 | 9 1/4 | 13.00 |
| C-520-K | 300/325 | 10/8.5 | 110 | 4100 | 5 1/2 | 5 3/4 | 4 3/8 | 10 1/2 | 20.00 |
| C-520-S | 300/325 | 10/8.5 | 110 | 4100 | 6 7/8 | 4 7/8 | 4 5/8 | 9 1/2 | 27.00 |
| C-585-K | 450/500 | 10/8.5 | 65 | 6500 | 7 | 7 1/4 | 5 3/4 | 25 | 25.50 |
| C-585-S | 450/500 | 10/8.5 | 65 | 6500 | 9 | 8 | 6 1/4 | 40 | 37.50 |
| C-650-K | 600 | 10 | 45 | 7500 | 7 | 9 | 7 3/4 | 40 | 47.00 |
| C-650-S | 600 | 10 | 45 | 7500 | 9 | 8 | 8 1/4 | 52 | 70.00 |
| C-715-K | 1000 | 10 | 25 | 7500 | 9 1/4 | 11 1/4 | 9 1/4 | 80 | 115.00 |
| C-715-S | 1000 | 10 | 25 | 7500 | 12 1/4 | 11 | 10 | 110 | 155.00 |

SWINGING CHOKES

| Type Number* | Current DC MA. | Inductance Henries | Resistance Ohms | Test Volts R.M.S. | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|----------------|--------------------|-----------------|-------------------|--------------------|--------|-------|-------------|------------|
| | | | | | Height | Depth | Width | | |
| W-519-A | 30/300 | 20/4 | 110 | 4100 | 5 | 4 1/4 | 4 3/8 | 9 1/4 | \$13.00 |
| W-519-K | 30/300 | 20/4 | 110 | 4100 | 5 1/2 | 5 3/4 | 4 3/8 | 10 1/2 | 20.00 |
| W-519-S | 30/300 | 20/4 | 110 | 4100 | 6 7/8 | 4 7/8 | 4 3/8 | 9 1/2 | 27.00 |
| W-584-K | 45/450 | 20/4 | 65 | 6500 | 7 | 7 1/4 | 5 3/4 | 30 | 25.50 |
| W-584-S | 45/450 | 20/4 | 65 | 6500 | 9 | 8 | 6 1/4 | 40 | 37.50 |
| W-649-K | 60/600 | 20/4 | 45 | 7500 | 7 | 9 | 7 3/4 | 40 | 47.00 |
| W-649-S | 60/600 | 20/4 | 45 | 7500 | 9 | 8 | 8 1/4 | 52 | 70.00 |
| W-714-K | 100/1000 | 20/4 | 25 | 7500 | 9 1/4 | 11 1/4 | 9 1/4 | 80 | 115.00 |
| W-714-S | 100/1000 | 20/4 | 25 | 7500 | 12 1/4 | 11 | 10 | 110 | 155.00 |

FILAMENT TRANSFORMERS

| Type Number* | Secondary Current, Amperes | | | | | Test Volts R.M.S. | Primary Volts 50-60 Cycle | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|----------------------------|-----------|-------------|-------------|------------|-------------------|---------------------------|--------------------|-------|-------|-------------|------------|
| | 2.5 V. C.T. | 5 V. C.T. | 6.3 V. C.T. | 7.5 V. C.T. | 10 V. C.T. | | | Height | Depth | Width | | |
| F-012-X | | | 1. | | | 2000 | 117 | 1 5/8 | 2 7/8 | 1 5/8 | 1/2 | \$2.80 |
| F-024-X | 4. | | | | | 2000 | 117 | 2 | 3 1/2 | 2 | 1 | 3.60 |
| F-036-X | | | 1.8 | | | 2000 | 117 | 2 | 3 1/2 | 2 | 1 | 3.40 |
| F-048-X | 5. | | | | | 7500 | 117 | 2 3/8 | 3 3/4 | 2 1/4 | 1 1/2 | 5.20 |
| F-060-X | | 4. | | | | 2000 | 117 | 2 3/8 | 3 3/4 | 2 1/4 | 1 1/2 | 4.25 |
| F-072-X | | | 3.6 | | | 2000 | 117 | 2 3/8 | 3 3/4 | 2 1/4 | 1 1/2 | 4.25 |
| F-096-X | 10. | | | | | 7500 | 117 | 2 5/8 | 4 1/4 | 2 1/2 | 2 1/8 | 5.95 |
| F-096-S | 10. | | | | | 7500 | 117 | 6 3/4 | 4 3/8 | 3 5/8 | 6 | 19.00 |
| F-104-X | | | 5. | | | 2000 | 117 | 2 5/8 | 4 1/4 | 2 1/2 | 2 3/8 | 6.00 |
| F-120-X | | | | 5. | | 2000 | 117 | 2 5/8 | 4 1/4 | 2 1/2 | 2 3/8 | 6.00 |
| F-121-X | 15. | | | | | 7500 | 117 | 2 5/8 | 4 1/4 | 2 1/2 | 2 3/8 | 8.00 |
| F-138-E | | 10. | | | | 2000 | 117 | 3 1/2 | 3 3/8 | 2 7/8 | 3 1/2 | 6.95 |
| F-139-E | | | 8. | | | 2000 | 117 | 3 1/2 | 3 3/8 | 2 7/8 | 3 1/2 | 6.95 |
| F-140-E | | | | 5. | | 2000 | 117 | 3 1/2 | 3 3/8 | 2 7/8 | 3 1/2 | 6.95 |
| F-156-E | | | | 10. | | 2000 | 117 | 3 1/2 | 3 3/4 | 2 7/8 | 3 3/4 | 7.25 |
| F-168-E | | | | 10. | | 2000 | 117 | 4 3/8 | 3 1/4 | 3 5/8 | 5 1/4 | 8.20 |
| F-169-S | | 20. | | | | 10,000 | 117 | 7 1/2 | 4 3/8 | 5 3/4 | 9 | 22.00 |
| F-180-E | | | | 15. | | 2000 | 117 | 4 3/8 | 3 3/4 | 3 5/8 | 6 1/4 | 9.50 |
| F-192-E | 10. | | | 10. | | 7500-2000 | 117 | 5 | 4 1/4 | 4 3/8 | 9 1/4 | 14.50 |
| F-192-S | 10. | | | 10. | | 7500-2000 | 117 | 7 1/2 | 4 3/8 | 5 5/8 | 9 1/2 | 24.50 |

ISOLATION TRANSFORMERS

| Type Number* | Primary Volts AC 50-60 C. | Secondary Volts AC | V. A. Continuous | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|---------------------------|--------------------|------------------|--------------------|-------|-------|-------------|------------|
| | | | | Height | Depth | Width | | |
| T-111-L | 117 | 117 | 75 | 4 3/8 | 3 1/4 | 3 3/4 | 5 1/2 | \$13.00 |
| T-112-L | 234 | 117 | 75 | 4 3/8 | 3 1/4 | 3 3/4 | 5 1/2 | 14.00 |
| T-311-L | 117 | 117 | 150 | 5 | 4 | 4 3/8 | 8 3/8 | 19.00 |
| T-312-L | 234 | 117 | 150 | 5 | 4 | 4 3/8 | 8 3/8 | 20.50 |
| T-511-L | 117 | 117 | 250 | 5 | 5 1/4 | 4 3/8 | 14 | 30.00 |
| T-512-L | 234 | 117 | 250 | 5 | 5 1/4 | 4 3/8 | 14 | 32.00 |

AUTOFORMERS (Step-Down)

| Type Number* | Input Volts AC 50-60 C. | Output Volts AC | V. A. Continuous | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|-------------------------|-----------------|------------------|--------------------|-------|-------|-------------|------------|
| | | | | Height | Depth | Width | | |
| A-014-L | 234 | 117 | 75 | 3 3/8 | 2 7/8 | 2 3/8 | 2 1/4 | \$9.75 |
| A-028-L | 234 | 117 | 150 | 4 3/8 | 3 1/4 | 3 3/4 | 5 1/2 | 12.00 |
| A-042-L | 234 | 117 | 300 | 5 | 4 | 4 3/8 | 8 3/8 | 16.00 |
| A-056-L | 234 | 117 | 500 | 5 | 5 1/4 | 4 3/8 | 14 | 20.50 |



PEERLESS ELECTRICAL PRODUCTS DIVISION TRANSFORMERS



1161 N. VINE STREET
HOLLYWOOD 38, CALIF.
161 SIXTH AVENUE
NEW YORK 13, N. Y.

AUTOFORMERS (Line Voltage Correcting)

| Type Number* | Voltages AC 50-60 Cycles | V. A. Continuous | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|---------------------------|------------------|--------------------|-------|-------|-------------|------------|
| | | | Height | Depth | Width | | |
| A-070-E | 0-100-105-110-115-120-125 | 250 | 4 3/8 | 3 3/4 | 3 5/8 | 5 3/4 | \$13.50 |
| A-084-K | 0-100-105-110-115-120-125 | 500 | 5 1/2 | 4 3/4 | 4 3/8 | 9 1/2 | 24.50 |
| A-098-K | 0-100-105-110-115-120-125 | 1000 | 5 1/2 | 5 1/2 | 4 3/8 | 12 3/4 | 40.00 |
| A-114-K | 0-100-105-110-115-120-125 | 2000 | 7 | 6 3/8 | 5 3/4 | 26 | 55.00 |

20-20 INPUT TRANSFORMERS

| 20-20 Type Number* | Descriptive Data | Impedance, Ohms | | Max. Level | Primary DC MA. Max. | DC MA. Unbal. | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------------|---|---|------------------------|-------------------------|---------------------|---------------|--------------------|-------|-------|-------------|------------|
| | | Primary | Secondary** | | | | Height | Depth | Width | | |
| K-221-Q | Secondary may be used single ended or Push-Pull—has two secondaries with balanced capacitance to ground. Static shield between primary and secondary. 90 db magnetic shielding. | 500, 250 30 or 600, 300 36 | 70,000 or 84,000 | — 20 db 6 mw ref. | 0 | — | 3 1/2 | 2 3/8 | 2 1/2 | 1 5/8 | \$36.50 |
| K-231-Q | Same data as K-221-Q. | 250, 125 62 1/2, 31 or 300, 150 75, 37 1/2 | 70,000 or 84,000 | — 20 db 6 mw ref. | 0 | — | 3 1/2 | 2 3/8 | 2 1/2 | 1 5/8 | 36.50 |
| K-251-Q | Same data as K-221-Q except 30 db magnetic shielding. | 500, 250 125, 62 1/2 or 600, 300 150, 75 | 40,000 or 48,000 | + 15 db 6 mw ref. | 0 | — | 4 1/8 | 3 3/8 | 3 1/2 | 2 3/8 | 45.00 |
| K-261-Q | For Push-Pull only—two secondaries with balanced capacitance to ground. | 500, 220 125, 50, 14 or 600, 265 150, 67, 17 | 30,000 or 36,000 | + 30 db 6 mw ref. | 0 | — | 4 5/8 | 3 5/8 | 3 1/2 | 5 1/2 | 52.50 |

**Secondary impedance is total of two separate windings.

20-20 INTERSTAGE TRANSFORMERS

| 20-20 Type Number* | Descriptive Data | Impedance, Ohms | | Max. Level | Primary DC MA. Max. | DC MA. Unbal. | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------------|---|-----------------|------------------|-------------------------|---|---------------|--------------------|-------|-------|-------------|------------|
| | | Primary | Secondary | | | | Height | Depth | Width | | |
| G-212-Q | Both primary and secondary may be used single-ended or in Push-Pull—has two secondary windings with balanced capacitance to ground—static shield between primary and secondary—parallel feed recommended. 90 db magnetic shielding. | 10,000 2,500 | 40,000 10,000 | — 20 db 6 mw ref. | 5 Per Winding Push-Pull Only | 0 | 3 1/2 | 2 3/8 | 2 1/2 | 1 5/8 | \$36.50 |
| G-252-Q | Same data as G-212-Q except 30 db magnetic shield. | 10,000 2,500 | 40,000 10,000 | + 15 db 6 mw ref. | 10 Per Winding Push-Pull Only | 0 | 4 1/8 | 3 3/8 | 3 1/2 | 2 3/8 | 45.00 |

20-20 OUTPUT TRANSFORMERS

| 20-20 Type Number* | Descriptive Data | Impedance, Ohms | | Max. Level | Primary DC MA. Max. | DC MA. Unbal. | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------------|---|---------------------------------------|---|-------------------------|---|---------------|--------------------|-------|-------|-------------|------------|
| | | Primary | Secondary | | | | Height | Depth | Width | | |
| S-215-Q | Primary may be used single ended or in Push-Pull—two secondaries with balanced capacitance to ground—parallel feed is recommended. 60 db magnetic shield. | 20,000 5,000 or 24,000 6,000 | 500, 250 125, 62 1/2 or 600, 300 150, 75 | + 15 db 6 mw ref. | 15 Per Winding Push-Pull Only | 0 | 4 1/8 | 3 3/8 | 3 1/2 | 2 1/2 | \$45.00 |
| S-220-Q | Same data as S-215-Q. | 12,500 3,125 or 15,000 3,750 | 500, 250 125, 62 1/2 or 600, 300 150, 75 | + 15 db 6 mw ref. | 15 Per Winding Push-Pull Only | 0 | 4 1/8 | 3 3/8 | 3 1/2 | 2 1/2 | 45.00 |
| S-230-Q | Secondary may be operated with one end grounded. | 6600 C.T. | 16, 8, 4, 2 | 20 watts + 35 db | 70 | 7 | 4 5/8 | 3 5/8 | 3 1/2 | 6 | 26.00 |
| S-235-Q | Secondary should be operated balanced to ground. | 6600 C.T. | 500, 250 125, 62 1/2 | 20 watts + 35 db | 70 | 7 | 4 5/8 | 3 5/8 | 3 1/2 | 6 | 26.50 |
| S-240-Q | Same as S-230-Q. | 5000 C.T. | 16, 8, 4, 2 | 20 watts | 90 | 9 | 4 5/8 | 3 5/8 | 3 1/2 | 6 | 26.00 |
| S-245-Q | Same as S-230-Q. | 3000 C.T. | 16, 8, 4, 2 | 20 watts | 110 | 11 | 4 5/8 | 3 5/8 | 3 1/2 | 6 | 26.00 |
| S-250-Q | Same as S-235-Q. | 3000 C.T. | 500, 250 125, 62 1/2 | 20 watts | 110 | 11 | 4 5/8 | 3 5/8 | 3 1/2 | 6 | 26.50 |
| S-265-Q | Two center-tapped primaries may be used in series or parallel. Secondary may be operated with one end grounded. | 10,000 C.T. 2,500 C.T. | 16, 8, 4, 2 | 40 watts + 38 db | 110 220 | 11 22 | 5 | 4 5/8 | 4 1/8 | 10 | 45.00 |
| S-270-Q | Same as S-265-Q except secondary should be operated balanced to ground. | 10,000 C.T. 2,500 C.T. | 500, 250 125, 62 1/2 | 40 watts + 38 db | 110 220 | 11 22 | 5 | 4 5/8 | 4 1/8 | 10 | 45.00 |

20-20 IMPEDANCE MATCHING TRANSFORMERS

| 20-20 Type Number* | Descriptive Data | Impedance, Ohms | | Max. Level | Primary DC MA. Max. | DC MA. Unbal. | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------------|---------------------------|------------------|-------------|---------------------|---------------------|---------------|--------------------|-------|-------|-------------|------------|
| | | Primary | Secondary | | | | Height | Depth | Width | | |
| E-214-Q | Between line and speaker. | 1000 500, 250 | 16, 8, 4, 2 | 10 watts + 32 db | — | — | 4 1/8 | 3 3/8 | 3 1/2 | 2 3/4 | \$19.50 |
| E-224-Q | Same as E-214-Q. | 1000 500, 250 | 16, 8, 4, 2 | 20 watts + 35 db | — | — | 4 5/8 | 3 5/8 | 3 1/2 | 6 | 27.00 |
| E-234-Q | Same as E-214-Q. | 1000 500, 250 | 16, 8, 4, 2 | 40 watts + 38 db | — | — | 5 | 4 1/8 | 4 1/8 | 10 | 45.00 |



PEERLESS ELECTRICAL PRODUCTS DIVISION
20-20 LINE TRANSFORMERS



1161 N. VINE STREET
 HOLLYWOOD 38, CALIF.
 161 SIXTH AVENUE
 NEW YORK 13, N. Y.

INPUT TRANSFORMERS

| Type Number* | Application | Impedance, Ohms Primary | Secondary | Turns Ratio | Freq. Range ±1 db | Dimensions, Inches Height Depth Width | Weight Lbs. | List Price |
|--------------|--|-------------------------------------|--------------|-------------|----------------------|--|-------------|------------|
| K-007-X | Single-Button Mic. to 1 or 2 Grids. | 100 | 700,000 C.T. | 1:84 | Voice | 1 5/8 2 7/8 1 5/8 | 1/2 | \$3.85 |
| K-021-X | Dbl.-But. Mic. or Line to 1 or 2 Grids | 200 C.T. | 100,000 C.T. | 1:22 1/2 | 100-5,000 | 2 3 1/2 2 | 1 | 3.80 |
| K-035-X | Dbl.-But. Mic. or Line to 1 or 2 Grids | 500 C.T. | 100,000 C.T. | 1:14 | 100-5,000 | 2 3 1/2 2 | 1 | 3.80 |
| K-049-D | Line to P.-P. Grids Max. Level -34 db. Level=0 db. 30 db Mag. Shielding. | 500 C.T.-333-250 200 C.T.-125-50 | 60,000 | | 30-15,000 | 2 7/8 1 3/4 1 3/4 | 1 | 17.50 |
| K-049-Q | Same as K-049-D except has 90 db Magnetic Shielding | 500 C.T.-333-250 200 C.T.-125-50 | 60,000 | | 30-15,000 | 3 1/2 2 3/8 2 1/2 | 1 1/2 | 24.00 |
| X-420-X | Voice Coil to Grid. | 4 | 25,000 | 1:80 | Voice | 1 7/8 2 1/2 1 1/2 | 3/8 | 2.75 |
| K-063-A | Line to P.-P. Grids. Max. Level -34 db. | 500 C.T.-125 | 12,500 | | 30-15,000 | 3 1/8 3 2 5/8 | 2 1/2 | 11.75 |
| K-077-X | S. B. Mic. and Single Plate to Grid. | 10,000-100 | 40,000 | 1:2,1:20 | Voice | 1 1/4 1 1/8 1 3/4 | 1/4 | 3.50 |

INTERSTAGE TRANSFORMERS

| Type Number* | Application | Impedance, Ohms Primary | Secondary | Turns Ratio | Freq. Range | Dimensions, Inches Height Depth Width | Weight Lbs. | List Price |
|--------------|---|----------------------------|-------------|-------------|-------------|--|-------------|------------|
| G-306-X | Single Plate to 1 or 2 Grids. | 10,000 | 96,000 C.T. | 1:3.1 | 100-5,000 | 1 5/8 2 7/8 1 5/8 | 1/2 | \$3.05 |
| G-318-D | Single Plate to Single Grid. Max. Level, 0 db. 30 db. Mag. Shielding. | 10,000 | 60,000 | | 30-15,000 | 2 7/8 1 3/4 1 3/4 | 1 | 16.00 |
| G-324-A | Single Plate to 1 or 2 Grids. | 10,000 | 60,000 | 1:2.45 | 40-10,000 | 2 1/8 2 1/8 2 1/4 | 1 5/8 | 6.25 |
| G-336-A | Push-Pull Plates to 1 or 2 Grids. | 20,000 C.T. | 30,000 C.T. | | 40-10,000 | 2 1/8 2 1/8 2 1/4 | 1 5/8 | 6.85 |

REACTORS

| Type Number* | Application | Res. Ohms | Ind. Henries | DC MA. Normal | Max. | Dimensions, Inches Height Depth Width | Weight Lbs. | List Price |
|--------------|---|-----------|--------------|---------------|-------|--|-------------|------------|
| L-350-X | Smp. Pentode Eqz. for Hi Fre. Peak. | 90 | 2 | 2 | 10 | 1 5/8 2 7/8 1 5/8 | 1/2 | \$5.85 |
| L-355-X | Smp. Pentode Eqz. for Low Fre. Peak. | 4200 | 160 | 2 | 10 | 1 5/8 2 7/8 1 5/8 | 1/2 | 6.90 |
| L-360-D | Tone Control (Cathode Circuit). | 220 | 23 | 0 | 0 | 2 7/8 1 5/8 Round | 1/2 | 4.80 |
| L-365-Q | HF and LF Equalizer for Pentode, 30 db Shielding. | 90-4200 | 2-160 | 2-2 | 10-10 | 4 3/8 3 3/8 3 1/2 | 3 | 19.50 |
| Q-370-X | To Isolate DC from Interstage Transf. | 4000 | 275 | 5 | 10 | 1 5/8 2 7/8 1 5/8 | 1/2 | 3.90 |

IMPEDANCE MATCHING TRANSFORMERS

| Type Number* | Application | Impedance, Ohms Primary | Secondary | Audio Watts | Freq. Range | Dimensions, Inches Height Depth Width | Weight Lbs. | List Price |
|--------------|---|-------------------------------------|-------------------------------------|-------------|-------------|--|-------------|------------|
| E-372-Q | Mic. or Line to Line—Static Shield Btwn. Pri. & Sec. 60 db Mag. Shield. | 500 C.T.-333-250 200 C.T.-125-50 | 500 C.T.-333-250 200 C.T.-125-50 | +10 db | 30-15,000 | 3 1/2 2 3/8 2 1/2 | 1 1/2 | \$27.00 |
| E-377-X | Line to Speaker. | 500 | 16-8 | 5 | 40-10,000 | 2 3 1/2 2 | 1 | 4.50 |
| E-382-X | Line to Speaker. | 2000-1500-1000 500-250 | 16-12-8-4-2 | 10 | 40-10,000 | 2 3/8 3 3/4 2 1/4 | 1 1/2 | 9.50 |
| E-387-E | Line to Speaker. | 2000-1500-1000 500-250 | 16-12-8-4-2 | 25 | 40-10,000 | 3 1/2 3 3/4 2 7/8 | 3 3/4 | 12.00 |

DRIVER TRANSFORMERS

| Type Number* | Driver Tubes | Output Tubes | Turns Ratio Pri.-1/2 Sec. | Pri. Current MA. DC | Dimensions, Inches Height Depth Width | Weight Lbs. | List Price |
|--------------|---|-----------------------------------|---------------------------|---------------------|--|-------------|------------|
| D-001-X | 1-1H4, 30, 1G4G | 1-1J6G, 1G6G or 2-1H4G | 2.66:1 | 15 | 1 1/4 1 1/8 1 1/4 | 1/4 | \$3.00 |
| D-006-X | 1-6J5, 6A6, 6N7, 76, 30 | 2-6A6, 6N7, 19, 30 | 2.66:1 | 25 | 2 3 1/2 2 | 1 | 4.40 |
| D-011-X | 1-6F6, 42, 2A5, 45 | 2-6L6, 2A3, 6F6, 45, 6V6 | 1.33:1 | 50 | 2 3 1/2 2 1/4 | 1 1/4 | 5.70 |
| D-016-X | 2-6C5, 6J5, 76, 56, or 1-6F6, 42, 45, 6A6, 6N7 | 2-6L6, 2A3, 6F6, 45 6V6, 6A6, 6N7 | 4.4, 2.8:1 2.2, 1.4:1 | 15 Per Winding | 2 3/8 3 3/4 2 1/4 | 1 1/2 | 6.50 |
| D-026-A | Universal Driver Plates to B or AB Grids. 15 Watts Audio. | Any Grids | 2.0:1 2.9:1 | 70 Per Winding | 3 1/8 3 2 5/8 | 2 1/2 | 10.75 |
| D-031-A | Universal Driver Plates to B or AB Grids. 30 Watts Audio. | Any Grids | 2.0:1 2.9:1 | 160 Per Winding | 3 1/2 3 3/4 2 7/8 | 4 1/4 | 14.75 |
| K-063-A | 500-Ohm or 125-Ohm line. 15 Watts Audio. | Any Grids | | | 3 1/8 3 2 5/8 | 2 1/2 | 11.75 |

MODULATION TRANSFORMERS

| Type Number* | Tubes Used | Audio Watts | Impedance, Ohms Primary Secondary | Sec. Current MA. DC | Dimensions, Inches Height Depth Width | Weight Lbs. | List Price |
|--------------|-----------------------------------|-------------|--------------------------------------|---------------------|--|-------------|------------|
| M-003-X | 1-186G, 1G6G or 2-1H4G, etc. | 2 | 10,000 C.T. 10,000-8000-5000 | 25 | 1 1/4 1 1/8 1 1/4 | 1/4 | \$3.90 |
| M-008-X | 1-19, 6N7, 6A6 | 5 | 10,000 C.T. 8000-5000-3500 | 50 | 1 5/8 2 7/8 1 5/8 | 1/2 | 3.35 |
| M-013-X | 1-6N7, 6A6, 53, or 2-6F6, 42, 2A5 | 10 | 10,000 C.T. 8000-5000-3500 | 100 | 2 3/8 3 3/4 2 1/4 | 1 1/2 | 6.20 |

UNIVERSAL MODULATION TRANSFORMERS

| Type Number* | Audio Watts | Primary Current DC MA. Per Side | Secondary Current DC MA. Series | DC MA. Parallel | Dimensions, Inches Height Depth Width | Weight Lbs. | List Price |
|--------------|-------------|---------------------------------|---------------------------------|-----------------|--|-------------|------------|
| M-303-A | 20 | 80 | 80 | 160 | 3 1/2 3 2 5/8 | 2 1/2 | \$9.25 |
| M-328-A | 40 | 100 | 100 | 200 | 4 3/8 3 1/2 3 3/4 | 6 | 14.50 |
| M-353-A | 60 | 130 | 130 | 260 | 5 4 1/4 4 3/8 | 9 1/2 | 17.00 |
| M-353-S | 60 | 130 | 130 | 260 | 6 7/8 4 7/8 4 5/8 | 9 1/2 | 24.75 |
| M-378-A | 85 | 160 | 160 | 320 | 6 4 7/8 4 3/4 | 11 3/4 | 21.50 |
| M-403-S | 150 | 200 | 200 | 400 | 8 6 7 5/8 | 35 | 38.00 |
| M-429-K | 375 | 325 | 325 | 650 | 7 9 1/2 5 3/4 | 31 | 70.00 |
| M-453-K | 650 | 500 | 500 | 1000 | 7 10 1/2 7 3/4 | 51 | 110.00 |
| M-453-S | 650 | 500 | 500 | 1000 | 10 9 8 1/4 | 68 | 135.00 |
| M-478-K | 1000 | 650 | 650 | 1300 | 9 1/4 14 9 1/4 | 110 | 220.00 |



**PEERLESS ELECTRICAL
PRODUCTS DIVISION
TRANSFORMERS**



1161 N. VINE STREET
HOLLYWOOD 38, CALIF.
161 SIXTH AVENUE
NEW YORK 13, N. Y.

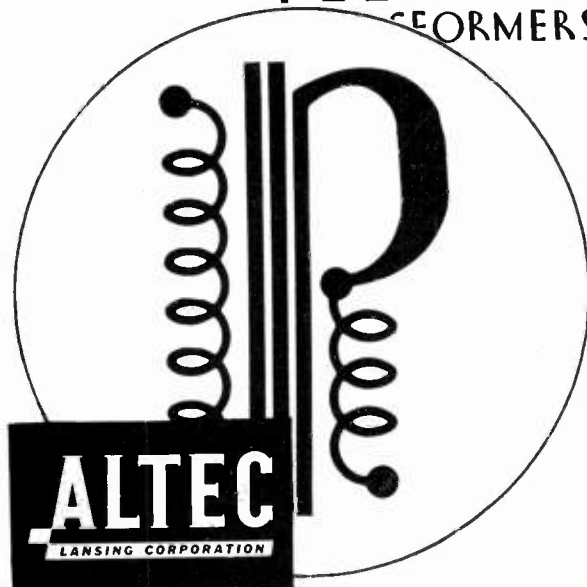
REPLACEMENT OUTPUT TRANSFORMERS

| Type Number* | Application | Turns Ratio | Impedance, Ohms | | Max. Pri. MA. DC | Audio Watts | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|---|-------------|--------------------------------------|---------------------------|------------------|-------------|--------------------|-------|-------|-------------|------------|
| | | | Primary | Secondary | | | Height | Depth | Width | | |
| X-404-X | 1-1Q5, 3Q5, 1G6, 1S4, 3S4, 1C5, etc. | 50:1 | 8000 | 4 to 2 1/2 3.2 Nominal | 15 | 1 | 1 1/4 | 1 1/8 | 1 1/4 | 1/4 | \$2.90 |
| X-408-X | 1-25L6, 35L6, 50L6, etc. | | 2500-2000-1500 | 6 to 2 | 60 | 5 | 1 1/8 | 2 1/2 | 1 1/2 | 3/8 | 2.90 |
| X-412-X | 1-6F6, 6V6, 41, 6K6, 6G6, 6A4, 25A6, etc. | | 10,000-7000 5000-3500 | 6 to 2 | 40 | 5 | 1 1/8 | 2 1/2 | 1 1/2 | 3/8 | 2.90 |
| X-416-X | 1-1S4, 1C5, 3Q5, 1Q5, 1T6, etc. | | 14,000-8000 | 6 to 2 | 20 | 5 | 1 1/8 | 2 1/2 | 1 1/2 | 3/8 | 2.90 |
| X-420-X | 1-1A5 | 80:1 | 25,000 | 6 to 2 4 Nominal | 10 | 5 | 1 1/8 | 2 1/2 | 1 1/2 | 3/8 | 2.75 |
| X-424-X | 1 or 2-41, 42, 6K6, 6V6, etc | | 10,000-7000 5000-3500 C.T. | 6 to 1.04 | 40 | 7 | 1 5/8 | 2 7/8 | 1 5/8 | 1/2 | 3.00 |
| X-428-X | Universal 1 or 2 tubes. | | 14,000-10,000 7000-5000-4000 C.T. | 16 to .13 | 50 | 10 | 2 | 3 1/2 | 2 | 1 | 3.75 |
| X-432-X | 2-6F6, 6V6, 6K6, 42, 2A5, 45, 71, 50, 6L6 | | 10,000 8000 C.T. | 10-6 4-2 1/2 | 50 | 15 | 2 3/8 | 3 3/4 | 2 1/4 | 1 1/2 | 4.25 |

STANDARD OUTPUT TRANSFORMERS

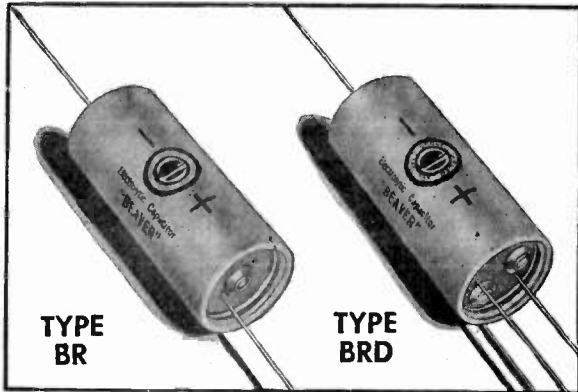
| Type Number* | Application | Freq. Range ±1 db | Impedance, Ohms | | Pri. DC Max. | MA. Unbal. | Audio Watts | Dimensions, Inches | | | Weight Lbs. | List Price |
|--------------|---|-------------------|---|--|--------------|------------|-------------|--------------------|-------|-------|-------------|------------|
| | | | Primary | Secondary | | | | Height | Depth | Width | | |
| S-448-Q | S. or P.-P. plates to line. 30 db hum bucking. | 30-15,000 | 20,000 C.T. 12,500 C.T. 5000-3125 | 500 C.T. 200 C.T. 333-250-125-50 | 15 | 2 | .06 | 3 1/2 | 2 3/8 | 2 1/2 | 1 1/2 | \$20.00 |
| S-456-X | S. or P.-P. plates to line. | Voice | 8000 C.T. | 500-200-50 | 10 | 2 | 1 | 1 1/4 | 1 1/8 | 1 1/4 | 1/4 | 3.85 |
| S-464-X | S. or P.-P. plates to line. | 100-5000 | 18,000 C.T. | 500-200-50 | 10 | 2 | 5 | 1 5/8 | 2 7/8 | 1 5/8 | 1/2 | 4.15 |
| S-472-X | S. plate to VC or line. | 100-5000 | 7000 | 500-200-15 8-4-2 1/2 | 40 | 40 | 10 | 2 3/8 | 3 3/4 | 2 1/4 | 1 1/2 | 6.50 |
| S-508-A | P.-P. plates to VC. | 30-15,000 | 8000 C.T. | 16-12-8-4 | 45 | 5 | 10 | 2 1/8 | 2 1/8 | 2 1/4 | 1 3/4 | 9.25 |
| S-516-A | P.-P. plates to VC. | 30-15,000 | 6600 C.T. | 16-12-8-4 | 70 | 7 | 20 | 3 1/8 | 3 | 2 1/8 | 2 1/2 | 11.75 |
| S-524-A | P.-P. plates to VC or line. | 30-15,000 | 6600 C.T. 5000 C.T. | 500 C.T. 125 16-12-8-4 | 70 | 7 | 20 | 3 1/2 | 3 1/4 | 2 3/8 | 3 | 12.50 |
| S-532-A | P.-P. plates to VC. | 30-15,000 | 5000 C.T. 3000 C.T. | 16-12-8-4 | 90 | 9 | 20 | 3 1/8 | 3 | 2 1/8 | 2 1/2 | 12.00 |
| S-540-A | P.-P. plates to VC or line. | 30-15,000 | 2500 C.T. 1500 C.T. | 500 C.T. 125 16-12-8-4 | 200 | 20 | 40 | 4 3/8 | 3 3/4 | 3 3/4 | 6 1/4 | 18.50 |
| S-548-A | P.-P. plates to VC or line. | 30-15,000 | 3800 C.T. 3200 C.T. | 500 C.T. 125 16-12-8-4 | 250 | 25 | 60 | 5 | 4 3/8 | 4 3/8 | 12 | 29.00 |

**PEERLESS
TRANSFORMERS**





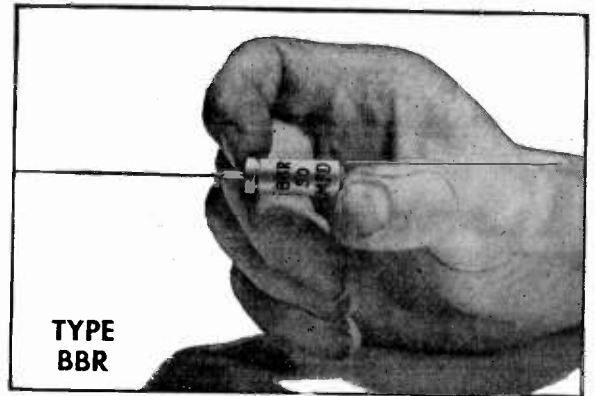
TUBULAR CAN-TYPE DRY ELECTROLYTIC CAPACITORS



"BLUE BEAVER"* CAPACITORS

Types BR and BRD "Blue Beavers" are the most popular electrolytic capacitors employed for all applications where units are required for convenient mounting in small spaces beneath a chassis or connected directly in the wiring assembly. They are small in physical size and self-supporting by means of strong, bare tinned-copper wire leads, while the larger sizes may be mounted with a metal strap.

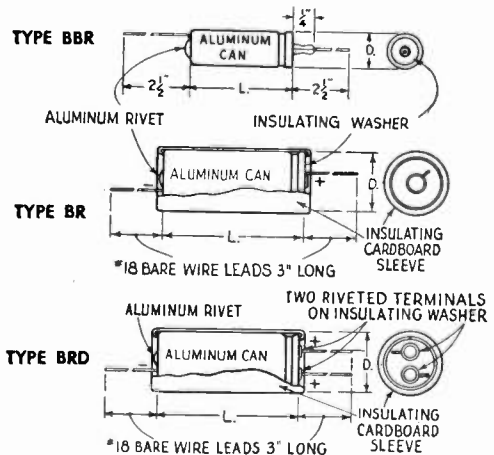
| Cat. No. | Cap. Mfd. | Size—Inches Diam. x Length | List Price | Net Price |
|--------------------|-----------|---------------------------------|------------|-----------|
| 25 V. D.C. | | | | |
| BR 102A | 10 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .75 | .45 |
| BR 202A | 20 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .80 | .48 |
| BR 252A | 25 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .85 | .51 |
| BR 502A | 50 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .95 | .57 |
| 50 V. D.C. | | | | |
| BR 550 | 5 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .75 | .45 |
| BR 105 | 10 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .80 | .48 |
| BR 205A | 20 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .85 | .51 |
| BR 255A | 25 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .90 | .54 |
| BR 505 | 50 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.05 | .63 |
| 150 V. D.C. | | | | |
| BR 415 | 4 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .75 | .45 |
| BR 815 | 8 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .80 | .48 |
| BR 1015 | 10 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .80 | .48 |
| BR 1215 | 12 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .85 | .51 |
| BR 1615 | 16 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .90 | .54 |
| BR 2015A | 20 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .95 | .57 |
| BR 2515 | 25 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .95 | .57 |
| BR 3015A | 30 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BR 4015A | 40 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.10 | .66 |
| BR 5015A | 50 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.20 | .72 |
| BR 6015 | 60 | $\frac{5}{8}$ x 2 | 1.30 | .78 |
| BR 8015A | 80 | $\frac{5}{8}$ x 2 | 1.45 | .87 |
| 250 V. D.C. | | | | |
| BR 425 | 4 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .80 | .48 |
| BR 825 | 8 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .80 | .48 |
| BR 1225A | 12 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BR 1625 | 16 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.10 | .66 |
| BR 2025 | 20 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.20 | .72 |
| BR 3025A | 30 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.30 | .78 |
| BR 4025A | 40 | $\frac{5}{8}$ x 2 | 1.40 | .84 |
| BR 5025 | 50 | 1 x 2 | 1.50 | .90 |
| 350 V. D.C. | | | | |
| BR 435 | 4 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .85 | .51 |
| BR 835A | 8 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .90 | .54 |
| BR 1235A | 12 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.05 | .63 |
| BR 1635A | 16 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.20 | .72 |
| BR 2035A | 20 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.30 | .78 |
| BR 3035 | 30 | 1 x 2 | 1.40 | .84 |
| BR 4035 | 40 | 1 x $2\frac{1}{2}$ | 1.50 | .90 |
| 450 V. D.C. | | | | |
| BR 145 | 1 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .80 | .48 |
| BR 245 | 2 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .85 | .51 |
| BR 445 | 4 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .90 | .54 |
| BR 845A | 8 | $\frac{5}{8}$ x $1\frac{1}{16}$ | .95 | .57 |
| BR 1045A | 10 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.03 | .63 |
| BR 1245A | 12 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.15 | .69 |
| BR 1645A | 16 | $\frac{5}{8}$ x 2 | 1.35 | .81 |
| BR 2045A | 20 | $\frac{5}{8}$ x 2 | 1.50 | .90 |
| BR 3045A | 30 | 1 x $2\frac{1}{2}$ | 1.65 | .99 |
| BR 4045A | 40 | 1 x $2\frac{1}{2}$ | 2.00 | 1.20 |
| 500 V. D.C. | | | | |
| BR 450A | 4 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.20 | .72 |
| BR 850A | 8 | $\frac{5}{8}$ x $1\frac{1}{16}$ | 1.30 | .78 |
| BR 1650A | 16 | 1 x 2 | 2.00 | 1.20 |
| BR 2050A | 20 | 1 x 2 | 2.40 | 1.44 |
| BR 3050A | 30 | 1 x $2\frac{1}{4}$ | 2.75 | 1.65 |



MINIATURE TUBULAR CAPACITORS

Type BBR "baby BR-type capacitors" are designed for use in compact apparatus such as hearing aids, pocket radios and other small assemblies. They are hermetically sealed in tubular aluminum containers and ideally suited to meet requirements in low voltage circuits.

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Ins. Dia. x Lth. | List Price | Net Price |
|-----------|-----------|---------------|---------------------------------|------------|-----------|
| BBR 50-3 | 50 | 3 | $\frac{3}{8}$ x $1\frac{1}{16}$ | \$1.00 | \$.60 |
| BBR 25-3 | 25 | 3 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 50-6 | 50 | 6 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 25-6 | 25 | 6 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 5-6 | 5 | 6 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 20-25 | 20 | 25 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 10-25 | 10 | 25 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 10-50 | 10 | 50 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 5-50 | 5 | 50 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 10-90 | 10 | 90 | $\frac{3}{8}$ x $1\frac{1}{16}$ | 1.00 | .60 |
| BBR 16-90 | 16 | 90 | $\frac{1}{2}$ x $1\frac{1}{16}$ | 1.00 | .60 |



| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Ins. Dia. x Lgth. | List Price | Net Price |
|-----------|-----------|---------------|---------------------------------|------------|-----------|
| BRD 202B | 20-20 | 25 | $\frac{3}{4}$ x $1\frac{1}{16}$ | \$1.10 | \$.66 |
| BRD 2215A | 20-20 | 150 | $\frac{1}{2}$ x $1\frac{1}{16}$ | 1.30 | .78 |
| BRD 3315A | 30-30 | 150 | $\frac{1}{2}$ x $1\frac{1}{16}$ | 1.50 | .90 |
| BRD 4215A | 40-20 | 180 | $\frac{1}{2}$ x $1\frac{1}{16}$ | 1.50 | .90 |
| BRD 4415A | 40-40 | 180 | 1 x $1\frac{1}{16}$ | 1.70 | 1.02 |
| BRD 5315A | 50-30 | 180 | 1 x $1\frac{1}{16}$ | 1.70 | 1.02 |
| BRD 5515A | 50-50 | 180 | 1 x $1\frac{1}{16}$ | 1.90 | 1.14 |
| BRD 8415 | 80-40 | 180 | 1 x $2\frac{1}{2}$ | 2.10 | 1.26 |
| BRD 2225A | 20-20 | 280 | 1 x $1\frac{1}{16}$ | 1.80 | 1.08 |
| BRD 4225 | 40-20 | 280 | 1 x $2\frac{1}{2}$ | 1.95 | 1.17 |
| BRD 2238A | 20-20 | 350 | 1 x $2\frac{1}{2}$ | 2.10 | 1.26 |
| BRD 8D45 | 8-8 | 450 | 1 x $1\frac{1}{16}$ | 1.70 | 1.02 |
| BRD 1145A | 10-10 | 450 | 1 x 3 | 1.85 | 1.11 |
| BRD 16D45 | 16-16 | 450 | 1 x 3 | 2.25 | 1.35 |
| BRD 2245 | 20-20 | 450 | 1 x 3 | 2.35 | 1.41 |

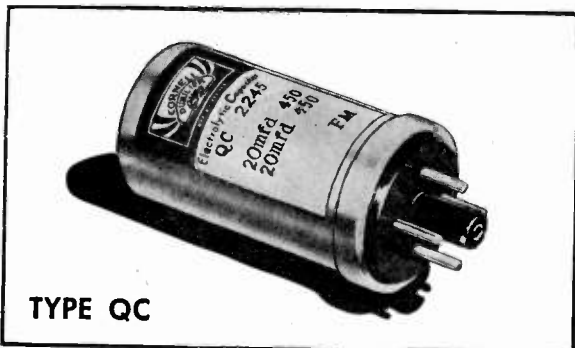
For cardboard tube electrolytic units, see page 6.

* Reg. U. S. Pat. Off.

CORNELL DUBILIER



ROUND CAN DRY ELECTROLYTIC CAPACITORS



TYPE QC

PLUG-IN TYPE CAPACITORS

Type QC Capacitors are hermetically sealed in round aluminum containers and provided with a four-pin octal base mounting in order to be readily removed and replaced in standard octal base tube sockets.

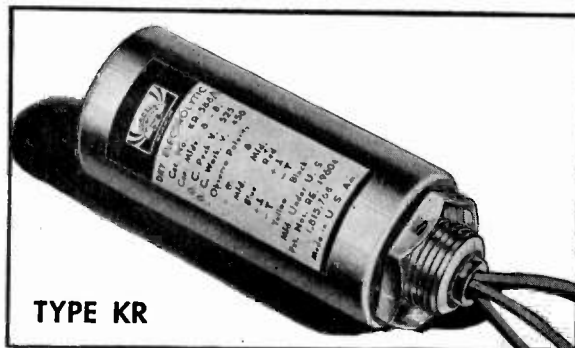
| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Ins. Dia. x Lgth. | List Price | Net Price |
|-----------|-------------|---------------|------------------------|------------|-----------|
| QC 2215 | 20-20 | 150 | 1 1/8" x 2 1/2" | \$3.10 | \$1.86 |
| QC 4415 | 40-40 | 150 | 1 1/8" x 2 1/2" | 3.90 | 2.34 |
| QC 22215 | 20-20-20 | 150 | 1 1/8" x 2 1/2" | 4.60 | 2.76 |
| QC 44415 | 40-40-40 | 150 | 1 1/8" x 2 1/2" | 5.00 | 3.00 |
| QC 1045 | 10 | 450 | 1 1/8" x 2 1/2" | 2.60 | 1.56 |
| QC 2045 | 20 | 450 | 1 1/8" x 2 1/2" | 3.50 | 2.10 |
| QC 4045 | 40 | 450 | 1 1/8" x 2 1/2" | 4.50 | 2.70 |
| QC 8045 | 80 | 450 | 1 1/8" x 3 1/2" | 7.70 | 4.62 |
| QC 1145 | 10-10 | 450 | 1 1/8" x 2 1/2" | 4.20 | 2.52 |
| QC 2245 | 20-20 | 450 | 1 1/8" x 2 1/2" | 5.30 | 3.18 |
| QC 11145 | 10-10-10 | 450 | 1 1/8" x 2 1/2" | 5.00 | 3.00 |
| QC 33145C | 30-30-10/20 | 450/50 | 1 1/8" x 4 1/4" | 7.75 | 4.65 |

TYPE UP CAPACITORS (Continued) Quadruple Section Units

| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Ins. Dia. x Lgth. | List Price | Net Price |
|--------------|--------------|---------------|------------------------|------------|-----------|
| UP 444315 | 40-40-40-30 | 150 | 1 1/8" x 2 | \$3.35 | \$2.01 |
| UP 22215C | 20-20-20/20 | 150/25 | 1 1/8" x 2 | 3.80 | 2.28 |
| UP 32215X20 | 30-20-20/200 | 150/10 | 1 1/8" x 2 | 3.15 | 1.89 |
| UP 33315C4 | 30-30-30/40 | 150/25 | 1 1/8" x 2 | 3.30 | 1.98 |
| UP 44315C | 40-40-30/20 | 150/25 | 1 1/8" x 2 | 3.10 | 1.86 |
| UP 44215X10 | 40-40-20/200 | 150/10 | 1 1/8" x 2 | 3.15 | 1.89 |
| UP 4415C44 | 40-40/100-40 | 150/25 | 1 1/8" x 2 | 3.35 | 2.01 |
| UP 4415C11 | 40-40-40/20 | 150/25 | 1 1/8" x 2 | 3.45 | 2.07 |
| UP 44415C | 40-40-40/20 | 150/25 | 1 1/8" x 2 | 3.10 | 1.86 |
| UP 44415C10 | 40-40-40/100 | 150/25 | 1 1/8" x 2 | 3.15 | 1.89 |
| UP 44415C16 | 40-40-40/160 | 150/25 | 1 1/8" x 2 | 3.20 | 1.92 |
| UP 53315C10 | 50-30-30/100 | 150/25 | 1 1/8" x 2 | 3.15 | 1.89 |
| UP 55515C | 50-50-50/20 | 150/25 | 1 1/8" x 2 | 2.04 | 1.24 |
| UP 64215X20 | 60-40-20/200 | 150/10 | 1 1/8" x 2 | 3.35 | 2.01 |
| UP 75715C3 | 75-75-75/30 | 150/25 | 1 1/8" x 3 | 3.85 | 2.31 |
| UP 84415C | 80-40-40/20 | 150/25 | 1 1/8" x 2 | 3.45 | 2.07 |
| UP 84415C10 | 80-40-40/100 | 150/25 | 1 1/8" x 2 1/2 | 3.50 | 2.10 |
| UP 42225C | 40-20-10/20 | 250/25 | 1 1/8" x 2 | 3.20 | 1.92 |
| UP 442130 | 40-40-20-10 | 300 | 1 1/8" x 2 1/2 | 4.00 | 2.40 |
| UP 11135C | 10-10-10/20 | 350/25 | 1 1/8" x 2 | 2.95 | 1.77 |
| UP 21535C | 20-10-5/10 | 350/25 | 1 1/8" x 2 | 3.05 | 1.83 |
| UP 32235C | 30-20-20/20 | 350/25 | 1 1/8" x 2 1/2 | 3.35 | 2.01 |
| UP 44235C | 40-40-20/20 | 350/25 | 1 1/8" x 3 | 3.85 | 2.31 |
| UP 2245CC | 20-20/20-20 | 450/25 | 1 1/8" x 2 | 3.55 | 2.13 |
| UP 2245-3335 | 20-20/30-30 | 450/350 | 1 1/8" x 3 | 4.35 | 2.61 |
| UP 5045 | 5-5-5-5 | 450 | 1 1/8" x 2 | 3.05 | 1.83 |
| UP 111145 | 10-10-10-10 | 450 | 1 1/8" x 2 | 3.25 | 1.95 |
| UP 222245 | 20-20-20-20 | 450 | 1 1/8" x 3 | 4.50 | 2.70 |
| UP 411145 | 40-10-10-10 | 450 | 1 1/8" x 3 | 4.60 | 2.76 |
| UP 11145C | 10-10-10/20 | 450/25 | 1 1/8" x 2 | 3.05 | 1.83 |
| UP 22245C | 20-20-20/20 | 450/25 | 1 1/8" x 2 1/2 | 3.95 | 2.37 |
| UP 315D45C4 | 30-15-15/40 | 450/25 | 1 1/8" x 3 1/2 | 3.95 | 2.37 |
| UP 32245C | 30-20-20/20 | 450/25 | 1 1/8" x 3 1/2 | 4.15 | 2.49 |
| UP 33145C | 30-30-10/20 | 450/25 | 1 1/8" x 3 | 4.25 | 2.55 |
| UP 33245C | 30-30-20/20 | 450/25 | 1 1/8" x 3 | 4.35 | 2.61 |
| UP 43145C | 40-30-10/20 | 450/25 | 1 1/8" x 3 | 4.15 | 2.49 |

Hardware For Type UP Capacitors

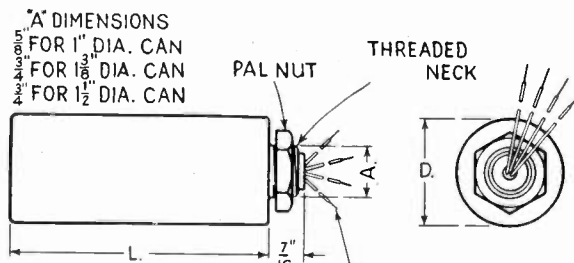
| Cat. No. | Item | Description | List Price | Net Price |
|----------|-----------------|-------------------|------------|-----------|
| 22272 | Wrench for | Mtg. UP Units | \$1.13 | \$0.67 |
| 19891 | Bakelite Washer | For 3/8" UP | .06 | .03 |
| 19884 | Bakelite Washer | For 1/2" UP | .06 | .03 |
| 19888 | Bakelite Washer | For 1 1/8" UP | .06 | .03 |
| 19890 | Metal Washer | For 3/8" UP | .06 | .03 |
| 19883 | Metal Washer | For 1/2" UP | .06 | .03 |
| 19887 | Metal Washer | For 1 1/8" UP | .06 | .03 |
| 21368-1 | Mounting Clip | For 3/8" UP | .14 | .08 |
| 21368-2 | Mounting Clip | For 1/2" UP | .14 | .08 |
| 21368-3 | Mounting Clip | For 1 1/8" UP | .14 | .08 |
| 22153-1 | Insulating Tube | For 3/4 x 2" UP | .06 | .03 |
| 22153-4 | Insulating Tube | For 1 x 2" UP | .06 | .03 |
| 22153-6 | Insulating Tube | For 1 x 3" UP | .06 | .03 |
| 22153-7 | Insulating Tube | For 1 1/8 x 2" UP | .06 | .03 |
| 22153-9 | Insulating Tube | For 1 1/8 x 3" UP | .06 | .03 |



TYPE KR

SCREW-NECK TYPE CAPACITORS

Types KR and KRC single-hole mounting units are compact etched foil type dry electrolytic capacitors furnished in round (inverted mounting) aluminum cans. Available in single, dual and triple sections with color-coded leads. Made in all popular voltage ratings for use in A.C.-D.C. or voltage-doubler midgets and A.C. operated sets.



TYPE KR

| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Ins. Dia. x Lith. | List Price | Net Price |
|----------|-----------|---------------|------------------------|------------|-----------|
| KR 105 | 50 | 25 | 1 x 2 1/2" | \$1.75 | \$1.05 |
| KR 204 | 4 | 250 | 1 x 2 1/2" | 1.55 | .93 |
| KR 208 | 8 | 250 | 1 x 2 1/2" | 1.60 | .96 |
| KR 212 | 12 | 250 | 1 x 2 1/2" | 1.75 | 1.05 |
| KR 225 | 25 | 250 | 1 x 3 1/2" | 2.00 | 1.20 |
| KR 350 | 50 | 250 | 1 1/8 x 3 1/2" | 3.00 | 1.80 |
| KR 504 | 4 | 450 | 1 x 2 1/2" | 1.70 | 1.02 |
| KR 508 | 8 | 450 | 1 x 2 1/2" | 1.75 | 1.05 |
| KR 512A | 12 | 450 | 1 x 2 1/2" | 2.15 | 1.29 |
| KR 516A | 16 | 450 | 1 x 3 1/2" | 2.40 | 1.44 |
| KR 520 | 20 | 450 | 1 1/8 x 2 1/2" | 2.65 | 1.59 |
| KR 530 | 30 | 450 | 1 1/8 x 3 1/2" | 3.00 | 1.80 |
| KR 540 | 40 | 450 | 1 1/8 x 4 1/8" | 3.40 | 2.04 |
| KR 604 | 4 | 600 | 1 1/8 x 3 1/2" | 3.00 | 1.80 |
| KR 608 | 8 | 600 | 1 1/8 x 4 1/2" | 4.00 | 2.40 |
| KR 616 | 16 | 600 | 1 1/2 x 4 1/2" | 5.00 | 3.00 |

Common Negative Units

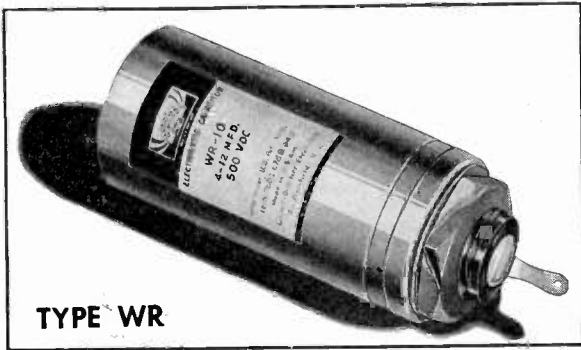
| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Ins. Dia. x Lith. | List Price | Net Price |
|----------|-----------|---------------|------------------------|------------|-----------|
| KRC 248 | 4-8 | 250 | 1 x 3 | \$2.15 | \$1.29 |
| KRC 288 | 8-8 | 250 | 1 x 3 | 2.30 | 1.38 |
| KRC 2888 | 8-8-8 | 250 | 1 1/8 x 3 | 3.80 | 2.28 |
| KRC 548 | 4-8 | 450 | 1 x 3 | 2.50 | 1.50 |
| KRC 588 | 8-8 | 450 | 1 1/8 x 2 1/2" | 2.75 | 1.65 |
| KRC 5116 | 16-16 | 450 | 1 1/8 x 3 1/2" | 3.50 | 2.10 |
| KRC 5220 | 20-20 | 450 | 1 1/8 x 4 1/8" | 4.00 | 2.40 |
| KRC 5888 | 8-8-8 | 450 | 1 1/8 x 3 1/2" | 4.25 | 2.55 |

Separate Section Units

| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Ins. Dia. x Lith. | List Price | Net Price |
|----------|-----------|---------------|------------------------|------------|-----------|
| KR 248 | 4-8 | 250 | 1 1/8 x 2 1/2" | \$2.15 | \$1.29 |
| KR 288 | 8-8 | 250 | 1 1/8 x 2 1/2" | 2.30 | 1.38 |
| KR 2888 | 8-8-8 | 250 | 1 1/8 x 3 1/2" | 3.80 | 2.28 |
| KR 2811 | 8-16-16 | 250 | 1 1/8 x 3 1/2" | 4.05 | 2.43 |
| KR 2811 | 8-16-16 | 250 | 1 1/8 x 3 1/2" | 4.30 | 2.58 |
| KR 548A | 4-8 | 450 | 1 1/8 x 3 | 2.50 | 1.50 |
| KR 588A | 8-8 | 450 | 1 1/8 x 3 | 2.75 | 1.65 |
| KR 5816A | 8-16 | 450 | 1 1/8 x 4 1/2" | 3.25 | 1.95 |
| KR 5888A | 8-8-8 | 450 | 1 1/8 x 4 1/2" | 4.25 | 2.55 |



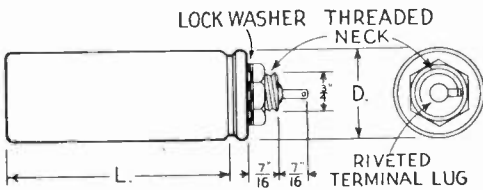
REPLACEMENT DRY ELECTROLYTIC CAPACITORS



TYPE WR

REPLACEMENTS FOR WET-TYPE UNITS

These dry electrolytic capacitors furnished in round aluminum cans are offered as substitutes for replacement of wet electrolytic units which have been discontinued in manufacture during the war. The limited range of capacities listed below cover practically all applications in standard radio receivers and other equipment in which wet type electrolytic capacitors were originally employed.

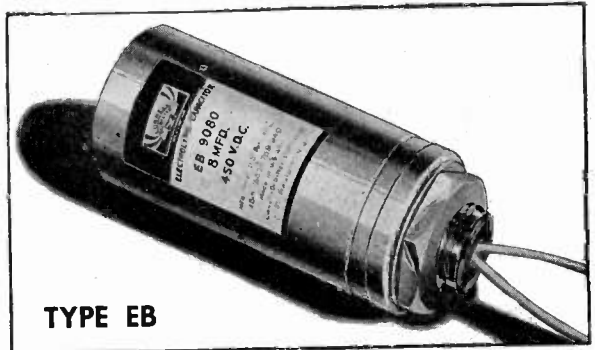


WET ELECTROLYTIC REPLACEMENT
TYPE WR

450-Volt D.C. Replacement Capacitors

| Cat. No. | Cap. Mid. | Replacement for | Size—Ins. Dia. x Lth. | List Price | Net Price |
|----------|-----------|-----------------|-----------------------|------------|-----------|
| WR 10 | 10 | 4 to 12 mfd. | 1 3/8 x 2 1/2 | \$1.45 | \$0.87 |
| WR 20 | 20 | 16 to 20 mfd. | 1 3/8 x 2 1/2 | 2.25 | 1.35 |
| WR 30 | 30 | 20 to 30 mfd. | 1 3/8 x 3 1/4 | 2.60 | 1.56 |
| WR 40 | 40 | 30 to 40 mfd. | 1 3/8 x 3 1/4 | 2.90 | 1.74 |

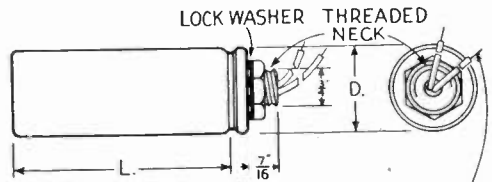
For one-inch diameter can wet electrolytic replacements we recommend employing C-D Type KR capacitors in one-inch diameter cans of equivalent capacity and voltage ratings.



TYPE EB

FILTER REPLACEMENT UNITS

Type EB electrolytic capacitors are especially suited for replacement purposes in radio receivers to replace units of larger physical sizes. They are identical in mounting hole dimensions and general construction to Type WR capacitors except they are provided with insulated color-coded wire leads 8" long brought through the threaded neck of the unit.



TYPE EB

INSULATED LEADS
8" LONG 1/2" OF ENDS
SKINNED & TINNED

450-Volt D.C. Replacement Capacitors

| Cat. No. | Cap. Mid. | Size—Ins. Dia. x Lth. | List Price | Net Price |
|----------|-----------|-----------------------|------------|-----------|
| EB 9080 | 8 | 1 3/8 x 4 3/8 | \$1.80 | \$1.08 |
| EB 9100 | 10 | 1 3/8 x 4 3/8 | 2.10 | 1.26 |
| EB 9120 | 12 | 1 1/2 x 4 3/8 | 2.35 | 1.41 |
| EB 9160 | 16 | 1 1/2 x 4 3/8 | 2.65 | 1.59 |
| EB 9180 | 18 | 1 1/2 x 4 3/8 | 2.75 | 1.65 |
| EB 9200 | 20 | 1 1/2 x 4 3/8 | 2.80 | 1.63 |
| EB 8800 | 8-8 | 1 1/2 x 4 3/8 | 2.70 | 1.62 |

"ELECTROLYTIC CAPACITORS"

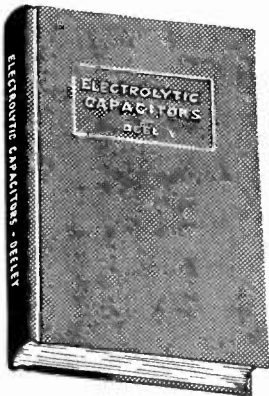
By PAUL McK. DEELEY

Here in one masterly volume, "Electrolytic Capacitors," you will find a wealth of the most practical information ever published on the subject of electrolytic capacitors.

Never before has the technician been offered a manual so complete and so comprehensive at this price—\$1.00 net, formerly \$3.00. "Electrolytic Capacitors" should be in every radio man's professional library and technical file.

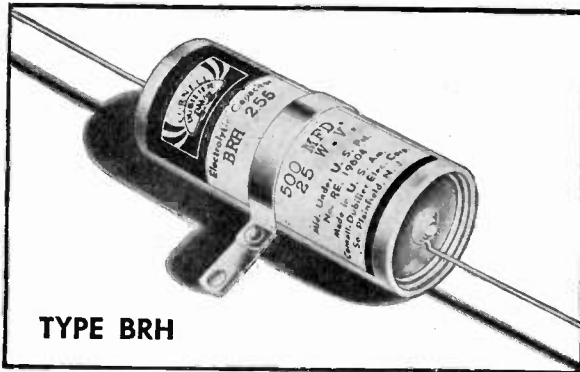
This instructive book supplies the reader with specific information concerning the many factors involved in the theory, design and construction of electrolytics. It is profusely illustrated and describes all applications of electrolytic capacitors. 300 pages, size 5 1/2" x 7 7/8", cloth bound hard cover. Every page is a gold mine of facts and data.

This 300-page book is yours postpaid—for only..... **\$1.00 net**





HIGH CAPACITY DRY ELECTROLYTIC CAPACITORS

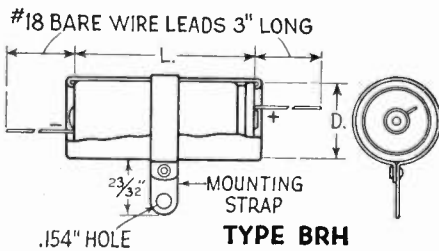


TYPE BRH

METAL TUBULAR TYPE CAPACITORS

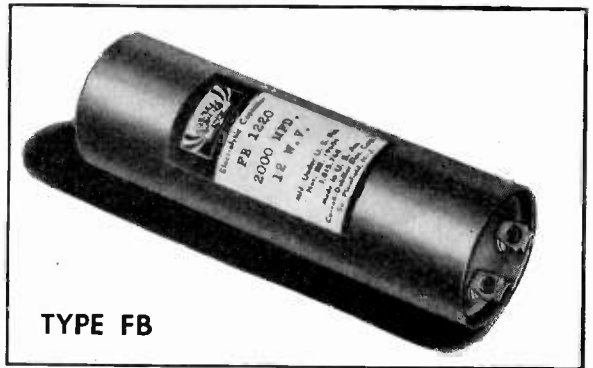
These compact C-D etched foil electrolytic capacitors have been especially designed for all applications requiring high capacity units operating in low voltage D.C. circuits. They are widely employed in portable radio power rectifying circuits, electric fence devices, telephone and D.C. timing circuits. Units are available in standard capacities and voltage ratings for all uses.

Hermetically sealed in pure aluminum cans with an external cardboard insulating sleeve, these units are provided with metal mounting strap and bare wire leads for convenient wiring into any circuit assembly. They are constructed identically the same as Type BR "Blue Beavers" except all units are provided with a mounting strap.



TYPE BRH

| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|-----------|-----------|---------------|--------------------------|------------|-----------|
| BRH 601 | 100 | 6 | 5/8 x 1 1/2 | \$1.20 | \$.72 |
| BRH 6025 | 250 | 6 | 5/8 x 1 1/2 | 1.45 | .87 |
| BRH 605A | 500 | 6 | 3/4 x 1 11/16 | 1.70 | 1.02 |
| BRH 610 | 1000 | 6 | 7/8 x 2 | 2.25 | 1.35 |
| BRH 620 | 2000 | 6 | 1 x 2 1/2 | 3.90 | 2.34 |
| BRH 121A | 100 | 12 | 5/8 x 1 1/2 | 1.20 | .72 |
| BRH 1225A | 250 | 12 | 3/4 x 1 11/16 | 1.75 | 1.05 |
| BRH 125A | 500 | 12 | 7/8 x 2 | 1.90 | 1.14 |
| BRH 1210 | 1000 | 12 | 1 x 2 | 2.90 | 1.74 |
| BRH 1220 | 2000 | 12 | 1 x 3 | 4.80 | 2.88 |
| BRH 151A | 100 | 15 | 5/8 x 1 1/2 | 1.70 | 1.02 |
| BRH 1525A | 250 | 15 | 3/4 x 1 11/16 | 1.90 | 1.14 |
| BRH 155A | 500 | 15 | 7/8 x 2 | 2.10 | 1.26 |
| BRH 1510 | 1000 | 15 | 1 x 2 | 3.70 | 2.22 |
| BRH 1520 | 2000 | 15 | 1 x 3 | 5.60 | 3.36 |
| BRH 251A | 100 | 25 | 5/8 x 1 1/2 | 1.20 | .72 |
| BRH 2525A | 250 | 25 | 3/4 x 1 11/16 | 2.00 | 1.20 |
| BRH 255A | 500 | 25 | 7/8 x 2 | 2.25 | 1.35 |
| BRH 501 | 100 | 50 | 3/4 x 2 | 1.50 | .90 |
| BRH 5015 | 150 | 50 | 7/8 x 2 | 1.70 | 1.02 |
| BRH 5025 | 250 | 50 | 1 x 2 | 2.36 | 1.42 |
| BRH 5050 | 500 | 50 | 1 x 3 | 4.60 | 2.76 |



TYPE FB

INSULATED CAN CAPACITORS

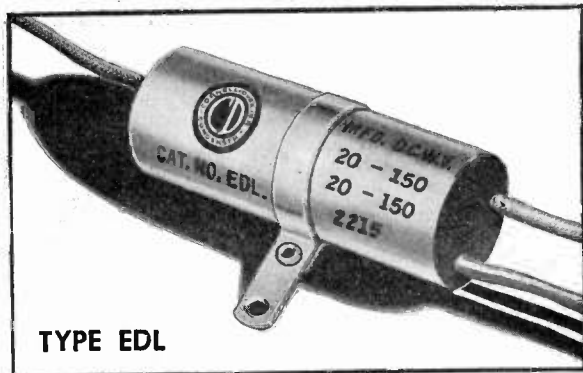
Type FB capacitors in round aluminum cans are designed for high capacity, low voltage applications, and are especially popular as replacements in motion picture sound equipment, and other low voltage circuits. All units are provided with lug terminals on a moulded bakelite cover and furnished with an external cardboard insulating sleeve for protection against short circuits.

Type FB is same as FA except lug terminal.

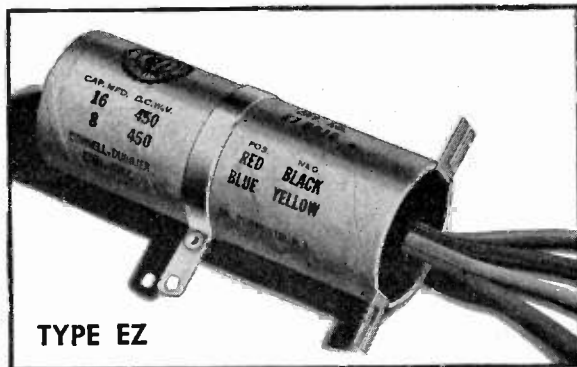
| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|----------|-----------|---------------|--------------------------|------------|-----------|
| FB 1005 | 500 | 10 | 1 3/8 x 2 3/8 | \$2.55 | \$1.53 |
| FB 1010 | 1000 | 10 | 1 3/8 x 2 3/8 | 2.70 | 1.62 |
| FB 1015 | 1500 | 10 | 1 3/8 x 2 3/8 | 4.25 | 2.55 |
| FB 1020 | 2000 | 10 | 1 3/8 x 2 3/8 | 4.55 | 2.73 |
| FB 1030 | 3000 | 10 | 1 3/8 x 3 1/8 | 5.60 | 3.36 |
| FB 1040 | 4000 | 10 | 1 3/8 x 4 1/8 | 5.90 | 3.54 |
| FB 1050 | 5000 | 10 | 1 3/8 x 4 1/8 | 6.30 | 3.78 |
| FB 1060 | 6000 | 10 | 1 3/8 x 4 1/8 | 10.27 | 6.16 |
| FB 1205 | 500 | 12 | 1 3/8 x 2 3/8 | 2.75 | 1.65 |
| FB 1210 | 1000 | 12 | 1 3/8 x 2 3/8 | 2.90 | 1.74 |
| FB 1215 | 1500 | 12 | 1 3/8 x 2 3/8 | 4.50 | 2.70 |
| FB 1220 | 2000 | 12 | 1 3/8 x 3 1/8 | 4.80 | 2.88 |
| FB 1225 | 2500 | 12 | 1 3/8 x 3 1/8 | 5.40 | 3.24 |
| FB 1230 | 3000 | 12 | 1 3/8 x 4 1/8 | 6.00 | 3.60 |
| FB 1240 | 4000 | 12 | 1 3/8 x 4 1/8 | 7.10 | 4.26 |
| FB 1260 | 6000 | 12 | 2 x 4 1/8 | 7.50 | 4.50 |
| FB 1505 | 500 | 15 | 1 3/8 x 2 3/8 | 3.10 | 1.86 |
| FB 1510 | 1000 | 15 | 1 3/8 x 2 3/8 | 3.70 | 2.22 |
| FB 1515 | 1500 | 15 | 1 3/8 x 2 3/8 | 5.40 | 3.24 |
| FB 1520 | 2000 | 15 | 1 3/8 x 3 1/8 | 5.80 | 3.48 |
| FB 1530 | 3000 | 15 | 1 3/8 x 4 1/8 | 7.00 | 4.20 |
| FB 1540 | 4000 | 15 | 1 3/8 x 4 1/8 | 8.10 | 4.86 |
| FB 1560 | 6000 | 15 | 2 x 4 1/8 | 8.70 | 5.22 |
| FB 1805 | 500 | 18 | 1 3/8 x 2 3/8 | 3.40 | 2.04 |
| FB 1810 | 1000 | 18 | 1 3/8 x 2 3/8 | 4.00 | 2.40 |
| FB 1820 | 2000 | 18 | 1 3/8 x 3 1/8 | 6.20 | 3.72 |
| FB 1840 | 4000 | 18 | 1 3/8 x 4 1/8 | 8.75 | 5.25 |
| FB 2005 | 500 | 20 | 1 3/8 x 2 3/8 | 3.75 | 2.25 |
| FB 2010 | 1000 | 20 | 1 3/8 x 3 1/8 | 4.40 | 2.64 |
| FB 2020 | 2000 | 20 | 1 3/8 x 4 1/8 | 6.50 | 3.90 |
| FB 2040 | 4000 | 20 | 2 x 4 1/8 | 9.25 | 5.55 |
| FB 2505 | 500 | 25 | 1 3/8 x 2 3/8 | 4.00 | 2.40 |
| FB 2510 | 1000 | 25 | 1 3/8 x 3 1/8 | 4.85 | 2.91 |
| FB 2520 | 2000 | 25 | 1 3/8 x 4 1/8 | 7.20 | 4.32 |
| FB 2530 | 3000 | 25 | 1 3/8 x 4 1/8 | 8.95 | 5.37 |
| FB 2540 | 4000 | 25 | 2 x 4 1/8 | 9.85 | 5.91 |
| FB 2550 | 5000 | 25 | 2 1/8 x 4 1/8 | 10.25 | 6.15 |
| FB 3005 | 500 | 30 | 1 3/8 x 3 1/8 | 5.25 | 3.15 |
| FB 3010 | 1000 | 30 | 1 3/8 x 4 1/8 | 5.75 | 3.45 |
| FB 3020 | 2000 | 30 | 1 3/8 x 4 1/8 | 7.90 | 4.74 |
| FB 3030 | 3000 | 30 | 2 x 4 1/8 | 9.15 | 5.49 |
| FB 3040 | 4000 | 30 | 2 1/8 x 4 1/8 | 11.20 | 6.72 |
| FB 3510 | 500 | 35 | 1 3/8 x 3 1/8 | 5.25 | 3.15 |
| FB 3520 | 1000 | 35 | 1 3/8 x 4 1/8 | 6.50 | 3.90 |
| FB 3530 | 2000 | 35 | 1 3/8 x 4 1/8 | 8.60 | 5.16 |
| FB 3540 | 3000 | 35 | 2 x 4 1/8 | 9.00 | 5.40 |
| FB 4005 | 4000 | 35 | 2 1/8 x 4 1/8 | 11.60 | 6.96 |
| FB 4010 | 500 | 40 | 1 3/8 x 3 1/8 | 5.85 | 3.51 |
| FB 4015 | 1000 | 40 | 1 3/8 x 4 1/8 | 7.85 | 4.71 |
| FB 4020 | 2000 | 40 | 1 3/8 x 4 1/8 | 9.25 | 5.55 |
| FB 4030 | 3000 | 40 | 2 x 4 1/8 | 10.10 | 6.06 |
| FB 4040 | 4000 | 40 | 2 1/8 x 4 1/8 | 11.90 | 7.14 |
| FB 5005 | 500 | 50 | 1 3/8 x 3 1/8 | 4.80 | 2.88 |
| FB 5010 | 1000 | 50 | 1 3/8 x 4 1/8 | 8.50 | 5.10 |
| FB 5020 | 2000 | 50 | 1 3/8 x 4 1/8 | 10.50 | 6.30 |
| FB 5030 | 3000 | 50 | 2 x 4 1/8 | 11.40 | 6.84 |
| FB 5040 | 4000 | 50 | 2 1/8 x 4 1/8 | 12.65 | 7.59 |



CARDBOARD TUBE DRY ELECTROLYTIC CAPACITORS



TYPE EDL



TYPE EZ

CARDBOARD TUBE UNITS (Formerly Type BRL)

Type EDL Capacitors are dual and triple common negative units in cardboard tube containers with wax-filled ends. Capacities, voltages and polarity of the leads are clearly defined by color coding stamped on the cardboard tube casing. Units are provided with insulated wire leads brought out at both ends of the unit. A mounting strap around the center of the cardboard tube casing enables mounting the unit with one screw under the chassis assembly.

Dual Common Negative Units

| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|-----------|-----------|---------------|--------------------------|------------|-----------|
| EDL 2202 | 20-20 | 25 | 5/8 x 2 1/4 | \$1.10 | \$.66 |
| EDL 115 | 10-10 | 50 | 5/8 x 2 1/4 | 1.15 | .69 |
| EDL 2115 | 20-10 | 150 | 1 1/8 x 2 1/4 | 1.25 | .75 |
| EDL 2215 | 20-20 | 150 | 7/8 x 2 1/4 | 1.30 | .78 |
| EDL 3215 | 30-20 | 150 | 7/8 x 2 1/2 | 1.45 | .87 |
| EDL 3315 | 30-30 | 150 | 7/8 x 2 1/2 | 1.60 | .96 |
| EDL 4215 | 40-20 | 150 | 7/8 x 2 1/2 | 1.50 | .90 |
| EDL 4315 | 40-30 | 150 | 1 1/8 x 2 1/2 | 1.60 | .96 |
| EDL 4415 | 40-40 | 150 | 1 x 2 3/4 | 1.70 | 1.02 |
| EDL 5315 | 50-30 | 150 | 1 x 2 3/4 | 1.70 | 1.02 |
| EDL 5515 | 50-50 | 150 | 1 x 3 | 1.85 | 1.11 |
| EDL 8415 | 80-40 | 150 | 1 1/8 x 3 | 1.95 | 1.17 |
| EDL 16825 | 16-8 | 250 | 1 1/8 x 2 1/2 | 1.60 | .96 |
| EDL 16D25 | 16-16 | 250 | 7/8 x 2 1/2 | 1.70 | 1.02 |
| EDL 2225 | 20-20 | 250 | 1 x 2 1/2 | 1.80 | 1.08 |
| EDL 7V225 | 75-20 | 250 | 1 1/8 x 3 1/2 | 2.25 | 1.35 |
| EDL 8D25 | 8-8 | 450 | 1 1/8 x 2 1/2 | 1.70 | 1.02 |
| EDL 16845 | 16-8 | 450 | 1 x 3 | 2.00 | 1.20 |
| EDL 16D45 | 16-16 | 450 | 1 1/8 x 3 | 2.30 | 1.38 |
| EDL 2245 | 20-20 | 450 | 1 1/8 x 3 1/4 | 2.40 | 1.44 |

Triple Common Negative Units

| | | | | | |
|-------------|-----------|---------|---------------|--------|--------|
| EDL 22215 | 20-20-20 | 150 | 1 1/8 x 2 1/2 | \$2.20 | \$1.32 |
| EDL 32V215 | 30-25-20 | 150 | 7/8 x 3 | 2.25 | 1.35 |
| EDL 42215 | 40-20-20 | 150 | 1 x 2 3/4 | 2.30 | 1.38 |
| EDL 43215 | 40-30-20 | 150 | 1 x 3 | 2.35 | 1.41 |
| EDL 44215 | 40-40-20 | 150 | 1 x 3 | 2.40 | 1.44 |
| EDL 44415 | 40-40-40 | 150 | 1 1/8 x 3 | 2.50 | 1.50 |
| EDL 2215C | 20-20-20 | 150, 25 | 7/8 x 2 1/2 | 1.90 | 1.14 |
| EDL 3315C | 30-30-20 | 150, 25 | 7/8 x 2 1/2 | 2.00 | 1.20 |
| EDL 4215C | 40-20-20 | 150, 25 | 1 1/8 x 2 1/2 | 2.00 | 1.20 |
| EDL 4415C | 40-40-20 | 150, 25 | 1 x 2 3/4 | 2.10 | 1.26 |
| EDL 5315C | 50-30-20 | 150, 25 | 1 x 2 3/4 | 2.10 | 1.26 |
| EDL 5515C | 50-50-20 | 150, 25 | 1 x 3 | 2.25 | 1.35 |
| EDL 8415C | 80-40-20 | 150, 25 | 1 1/8 x 3 | 2.45 | 1.47 |
| EDL 3215C10 | 30-20-100 | 150, 25 | 1 x 2 3/4 | 2.20 | 1.32 |
| EDL 5315X20 | 50-30-200 | 150, 10 | 1 x 3 | 2.45 | 1.47 |
| EDL 5315C10 | 50-30-100 | 150, 25 | 1 x 3 | 2.40 | 1.44 |
| EDL 8215C10 | 80-20-100 | 150, 25 | 1 1/8 x 3 | 2.55 | 1.53 |
| EDL 2225C | 20-20-20 | 250, 25 | 1 1/8 x 2 3/4 | 1.95 | 1.17 |
| EDL 4225C | 40-20-20 | 250, 25 | 1 x 3 | 2.05 | 1.23 |
| EDL 4425C | 40-40-20 | 250, 25 | 1 1/8 x 3 | 2.15 | 1.29 |
| EDL 7J4125 | 75-40-10 | 250 | 1 1/4 x 3 1/2 | 3.25 | 1.95 |
| EDL 16745 | 16-16-16 | 450 | 1 1/8 x 3 | 3.05 | 1.83 |
| EDL 2245C | 20-20-20 | 450, 25 | 1 1/8 x 3 1/4 | 2.80 | 1.68 |

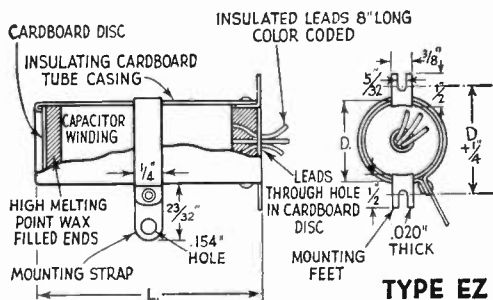
Quadruple Common Negative Units

| | | | | | |
|------------|-------------|---------|---------------|--------|--------|
| EDL 33215C | 30-30-20-20 | 150, 25 | 1 x 2 3/4 | \$2.80 | \$1.68 |
| EDL 22245C | 20-20-20-20 | 450, 25 | 1 1/8 x 3 1/4 | 3.85 | 2.31 |

UNIVERSAL-MOUNTING UNITS

Type EZ capacitors are especially popular for radio servicing where low cost replacements are required. They are designed with mounting feet for upright mounting to replace inverted can-type units, spade-lug units, or may be mounted beneath the chassis by means of the mounting strap provided around the center of the cardboard tube casing. In any instance, the unused mountings may easily be cut off.

These units are without doubt the most practical all-around replacement capacitors available and incorporate C-D etched foil features in design and construction. They are completely sealed in moisture-proof cardboard tube casing, filled with special wax compound, and provided with insulated wire leads eight inches long. All units are clearly stamped with capacities, voltages and color code designation of leads.



TYPE EZ

Single Section Units

| Cat. No. | Cap. Mid. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|----------|-----------|---------------|--------------------------|------------|-----------|
| EZ 825 | 8 | 250 | 3/8 x 2 1/4 | \$1.05 | \$0.63 |
| EZ 1625 | 16 | 250 | 1 x 2 3/4 | 1.30 | .78 |
| EZ 2425 | 24 | 250 | 1 1/8 x 2 1/2 | 1.45 | .87 |
| EZ 835 | 8 | 350 | 3/8 x 2 1/2 | 1.10 | .66 |
| EZ 1235 | 12 | 350 | 1 1/8 x 2 1/2 | 1.30 | .78 |
| EZ 1635 | 16 | 350 | 1 x 2 3/4 | 1.45 | .87 |
| EZ 2435 | 24 | 350 | 1 x 3 1/2 | 1.55 | .93 |
| EZ 845 | 8 | 450 | 7/8 x 2 3/4 | 1.15 | .69 |
| EZ 1245 | 12 | 450 | 1 x 2 3/4 | 1.35 | .81 |
| EZ 1645 | 16 | 450 | 1 1/8 x 2 3/4 | 1.55 | .93 |
| EZ 3045 | 30 | 450 | 1 1/4 x 3 1/2 | 1.85 | 1.11 |

Dual Common Negative Units

| | | | | | |
|---------|-------|-----|---------------|--------|--------|
| EZ 2215 | 20-20 | 150 | 1 x 2 1/2 | \$1.50 | \$0.90 |
| EZ 3315 | 30-30 | 150 | 1 1/8 x 2 3/4 | 1.70 | 1.02 |
| EZ 5515 | 50-50 | 150 | 1 1/8 x 3 1/2 | 2.05 | 1.23 |
| EZ 8825 | 8-8 | 250 | 1 x 2 3/4 | 1.65 | .99 |
| EZ 8835 | 8-8 | 350 | 1 1/8 x 3 1/2 | 1.80 | 1.08 |
| EZ 8845 | 8-8 | 450 | 1 x 3 1/2 | 1.90 | 1.14 |

(For Type EZ Multiple Units, see next page.)



CARDBOARD TUBE DRY ELECTROLYTIC CAPACITORS

(Type EZ Universal Mounting Capacitors Continued from preceding page)

Dual Separate Section Units

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|----------|-----------|---------------|--------------------------|------------|-----------|
| EZ 288 | 8-8 | 250 | 1 3/8 x 2 3/4 | \$2.20 | \$1.32 |
| EZ 2116 | 16-16 | 250 | 1 3/8 x 3 3/4 | 2.75 | 1.65 |
| EZ 388 | 8-8 | 350 | 1 3/8 x 3 | 2.25 | 1.35 |
| EZ 3112 | 12-12 | 350 | 1 3/8 x 3 3/4 | 2.70 | 1.62 |
| EZ 3116 | 16-16 | 350 | 1 3/8 x 4 3/4 | 3.00 | 1.80 |
| EZ 588 | 8-8 | 450 | 1 3/8 x 3 | 2.30 | 1.38 |
| EZ 5816 | 8-16 | 450 | 1 3/8 x 3 3/4 | 2.70 | 1.62 |
| EZ 5112 | 12-12 | 450 | 1 3/8 x 3 3/4 | 2.70 | 1.62 |
| EZ 5116 | 16-16 | 450 | 1 3/8 x 4 3/4 | 3.20 | 1.92 |

Triple Common Negative Units

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|-----------|-----------|---------------|--------------------------|------------|-----------|
| EZ 2215C | 20-20/20 | 150/25 | 1 x 3 | \$2.10 | \$1.26 |
| EZ 3215C | 30-20/20 | 150/25 | 1 x 3 | 2.15 | 1.29 |
| EZ 3115C | 30-10/20 | 150/25 | 1 x 3 | 2.05 | 1.23 |
| EZ 4215C | 40-20/20 | 150/25 | 1 1/16 x 3 | 2.00 | 1.20 |
| EZ 32115 | 30-20/10 | 150 | 1 1/8 x 2 3/4 | 2.15 | 1.29 |
| EZ 42215 | 40-20-20 | 150 | 1 1/8 x 3 | 2.30 | 1.38 |
| EZ 1A135C | 15-10/20 | 350/25 | 1 1/8 x 3 1/2 | 2.30 | 1.38 |
| EZ 2143C | 20/10/20 | 400/350/25 | 1 1/8 x 3 1/8 | 2.50 | 1.50 |

Triple Separate Section Units*

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|-----------|-----------|---------------|--------------------------|------------|-----------|
| EZ 8825S | 8-8/20 | 250/25 | 1 3/8 x 3 | \$2.45 | \$1.47 |
| EZ 8835S | 8-8/20 | 350/25 | 1 3/8 x 3 3/4 | 2.55 | 1.53 |
| EZ 12D35S | 12-12/20 | 350/25 | 1 3/8 x 3 3/4 | 2.75 | 1.65 |
| EZ 16D35S | 16-16/20 | 350/25 | 1 3/8 x 4 3/4 | 3.20 | 1.92 |
| EZ 8845S | 8-8/20 | 450/25 | 1 3/8 x 3 3/4 | 2.65 | 1.59 |
| EZ 12D45S | 12-12/20 | 450/25 | 1 3/8 x 4 3/4 | 3.00 | 1.80 |
| EZ 8882S | 8-8-8 | 250 | 1 3/8 x 3 | 2.50 | 1.50 |
| EZ 8883S | 8-8-8 | 350 | 1 3/8 x 3 3/4 | 2.65 | 1.59 |
| EZ 8884S | 8-8-8 | 450 | 1 3/8 x 4 3/4 | 2.75 | 1.65 |

Quadruple Common Negative Units

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|-----------|-------------|---------------|--------------------------|------------|-----------|
| EZ 8815CC | 8-8/10-10 | 150/25 | 1 x 2 3/4 | \$2.35 | \$1.41 |
| EZ 3215CC | 30-20/10-10 | 150/25 | 1 1/16 x 2 3/4 | 2.60 | 1.56 |
| EZ 42215C | 40-20-20/20 | 150/25 | 1 1/16 x 3 | 2.85 | 1.71 |
| EZ 53215C | 50-30-20/20 | 150/25 | 1 1/16 x 3 1/2 | 2.95 | 1.77 |
| EZ 44315C | 40-40-30/20 | 150/25 | 1 1/16 x 3 1/2 | 3.00 | 1.80 |
| EZ 55515C | 50-50-50/20 | 150/25 | 1 1/16 x 3 1/2 | 3.30 | 1.98 |

Quadruple Separate Section Units*

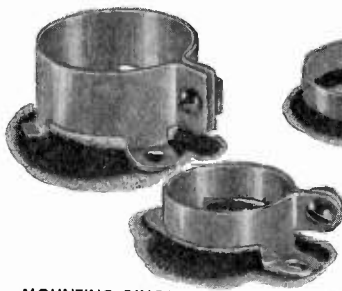
| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|------------|-------------|---------------|--------------------------|------------|-----------|
| EZ 16D15SS | 16-16/10-10 | 150/25 | 1 3/8 x 3 | \$3.15 | \$1.89 |
| EZ 8845SS | 8-8/10-10 | 450/25 | 1 3/8 x 3 3/4 | 3.25 | 1.95 |
| EZ 43215SS | 40-30-20/20 | 150/25 | 1 3/8 x 3 3/4 | 3.65 | 2.19 |

*First section separate, others common negative.

Explanation of Terminal Connections

In all cases only a single common negative lead is provided to all sections in multiple section capacitors listed under the heading of Common Negative Units. Separate Section Units are provided with separate negative and separate positive leads.

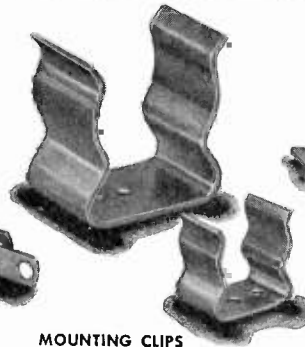
In triple and quadruple section capacitors with separate sections, indicated with an asterisk (*), the very first capacity listed is a separate section, having separate negative and positive leads, while all other capacities shown are connected to a single common negative lead with separate positive leads to each section.



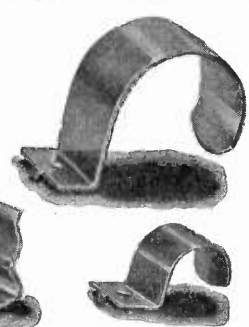
MOUNTING RINGS



MOUNTING STRAPS



MOUNTING CLIPS



"C" CLAMPS

CAPACITOR MOUNTING HARDWARE

Additional hardware for mounting all types of electrolytic capacitors as well as tubular paper units is available as shown in the accompanying diagrams and listed below.

| Part No. | Description | List Price | Net Price |
|----------------|--|------------|-----------|
| 14582 | Mounting Ring for 1" dia. Cans | \$0.09 | \$0.05 |
| 12125 | Mounting Ring for 1 1/8" dia. Cans | .09 | .05 |
| 15591 | Mounting Ring for 1 1/4" dia. Cans | .14 | .08 |
| 16693 | Mounting Ring for 1 3/4" dia. Cans | .17 | .10 |
| 14464 | Mounting Ring for 2" dia. Cans | .21 | .12 |
| 13590 | Mounting Ring for 2 1/2" dia. Cans | .21 | .12 |
| 13591 | Mounting Ring for 3" dia. Cans | .21 | .12 |
| 15266 | Mounting Ring for 3 1/2" dia. Cans | .21 | .12 |
| 17842 | Mounting Ring for 1" dia. Cans | .09 | .05 |
| 19213 | Mounting Ring for 1 1/8" dia. Cans | .09 | .05 |
| 18573 | Mounting Ring for 1 1/4" dia. Cans | .09 | .05 |
| 17843 | Mounting Ring for 1 3/8" dia. Cans | .09 | .05 |
| 17844 | Mounting Ring for 1 1/2" dia. Cans | .14 | .08 |
| 21368-1 | Mounting Clip for 3/4" dia. Cans | .14 | .08 |
| 21368-2 | Mounting Clip for 1" dia. Cans | .14 | .08 |
| 21368-3 | Mounting Clip for 1 1/8" dia. Cans | .14 | .08 |
| 17920 | "C" Clamp for 5/8"-3/4" Cans or Tubulars | .14 | .08 |
| 17921 | "C" Clamp for 7/8"-1" Cans or Tubulars | .14 | .08 |
| 17922 | "C" Clamp for 1 1/8"-1 1/4" Cans or Tubulars | .14 | .08 |
| 17923 | "C" Clamp for 1 3/8"-1 1/2" Cans or Tubulars | .14 | .08 |
| 16279 to 16287 | Tubular Straps for Mounting All Types of Tubular Units | .06 | .03 |

MOUNTING RINGS

MADE OF 03% CADMIUM PLATED STEEL

FOR CAN SIZES 1" TO 1 1/2" DIA.

| PART No. | A" | B | C |
|----------|-------|-------|-------|
| 17842 | 1 | 1 3/8 | 1 1/2 |
| 19213 | 1 1/8 | 1 5/8 | 1 3/2 |
| 18573 | 1 1/4 | 1 3/4 | 1 3/4 |
| 17843 | 1 3/8 | 1 5/8 | 1 3/8 |
| 17844 | 1 1/2 | 1 3/4 | 2 |

MOUNTING RINGS

FOR CAN SIZES - 1" TO 3 1/2" DIAMETER

MADE OF 03% CADMIUM PLATED STEEL

| PART No. | A | B | C | FOR CAN SIZE |
|----------|-------|-------|-------|--------------|
| 14582 | 1 | 1 1/8 | 1 1/2 | 1" |
| 12125 | 1 1/8 | 1 3/8 | 1 3/4 | 1 1/8" |
| 15591 | 1 1/4 | 1 3/4 | 1 3/4 | 1 1/4" |
| 16693 | 1 3/4 | 2 1/8 | 2 3/8 | 1 3/4" |
| 14464 | 2 | 2 1/4 | 2 3/4 | 2" |
| 13590 | 2 1/2 | 2 3/8 | 3 1/8 | 2 1/2" |
| 13591 | 2 3/4 | 3 1/8 | 3 3/8 | 3" |
| 15266 | 3 1/2 | 3 3/8 | 4 1/8 | 3 1/2" |

MOUNTING CLIPS

EMBOSSSED 1/16" DEEP

MADE OF CADMIUM PLATED STEEL

| PART No. | A | B | C | D | FOR CAN SIZE |
|----------|-------|-------|-------|-------|--------------|
| 21368-1 | 3/4 | 1 | 1 1/8 | 1 1/4 | 3/4" |
| 21368-2 | 1 | 1 1/8 | 1 3/8 | 1 3/4 | 1" |
| 21368-3 | 1 1/8 | 1 3/8 | 1 3/4 | 1 3/4 | 1 1/8" |

TUBULAR STRAPS

MADE OF 020% TINNED STEEL

| PART No. | I.D. | PART No. | I.D. |
|----------|-------|----------|-------|
| 16279 | 5/16 | 20440 | 5/16 |
| 16280 | 1/2 | 27950 | 1 |
| 17203 | 5/8 | 21187 | 1 1/8 |
| 17516 | 3/4 | 21068-1 | 1 1/4 |
| 16285 | 7/8 | 19033-1 | 1 3/4 |
| 17517 | 1 | 17673-1 | 1 3/4 |
| 27886 | 1 1/8 | 17606 | 1 3/4 |

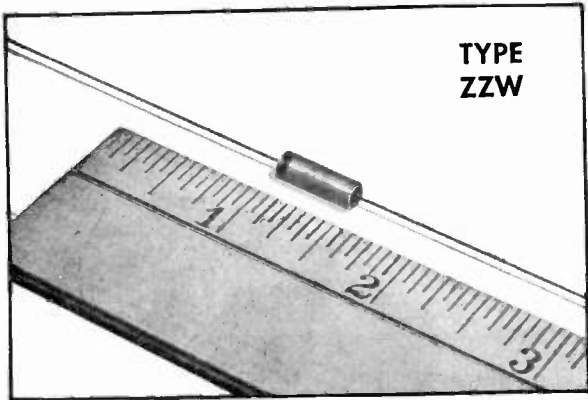
"C" CLAMPS

MADE OF CADMIUM PLATED STEEL

| PART No. | A FOR TUBE SIZE | B |
|----------|-----------------|-----|
| 17920 | 5/8 - 3/4" | 1/2 |
| 17921 | 7/8 - 1" | 1/2 |
| 17922 | 1 1/8 - 1 1/4" | 3/4 |
| 17923 | 1 3/8 - 1 1/2" | 3/4 |



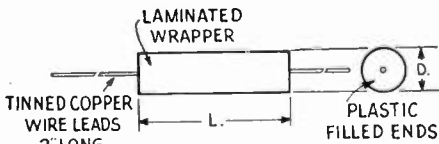
TUBULAR PAPER CAPACITORS



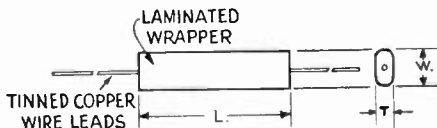
TYPE
ZZW

MINIATURE TUBULAR CAPACITORS

Types ZYW, ZZW, and flat type ZNW, tiny tubular paper capacitors are especially suited for use in very small electronic assemblies, such as hearing aids, pocket radios, etc., where minimum space and weight are essential. These capacitors are the result of Cornell-Dubilier developments for the VT radio proximity fuze for shells and bombs made for the Navy during the War and today find many applications in ultra compact electronic equipment of all kinds. All units are non-inductively wound, wax impregnated by special process, and sealed in a laminated paper wrapper with plastic compound ends. They are additionally protected against moisture with a complete wax coating.



TYPES ZYW and ZZW



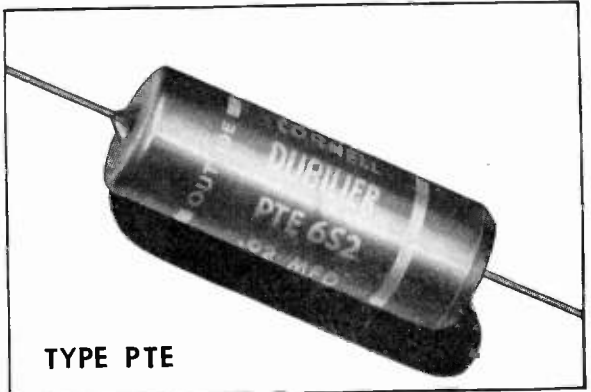
TYPE ZNW

TYPES ZZW AND ZYW—Round Units

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches Dia. x Lgth. | List Price | Net Price |
|----------|-----------|---------------|--------------------------|------------|-----------|
| ZZW1T5 | .0005 | 150 | 5/16 x 1/2 | \$.35 | \$.21 |
| ZZW1D2 | .002 | 150 | 3/16 x 1/2 | .35 | .21 |
| ZZW1D4 | .004 | 150 | 1/8 x 1/2 | .35 | .21 |
| ZZW1D6 | .006 | 150 | 3/16 x 1/2 | .35 | .21 |
| ZZW1S1 | .01 | 150 | 1/8 x 1/2 | .40 | .24 |
| ZYW6D1 | .001 | 600 | 3/16 x 1 13/16 | .65 | .39 |
| ZYW4D2 | .002 | 400 | 3/16 x 1 13/16 | .45 | .27 |
| ZYW4D5 | .005 | 400 | 3/16 x 1 13/16 | .50 | .30 |
| ZYW1S3 | .03 | 150 | 3/8 x 1 13/16 | .45 | .27 |
| ZYW1S5 | .05 | 150 | 3/8 x 1 13/16 | .50 | .30 |

TYPE ZNW—Flat Units

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches T. x W. x L. | List Price | Net Price |
|----------|-----------|---------------|--------------------------|------------|-----------|
| ZNW6D1 | .001 | 600 | 5/16 x 3/8 x 1 13/16 | \$.65 | \$.39 |
| ZNW4D2 | .002 | 400 | 3/16 x 3/8 x 1 13/16 | .45 | .27 |
| ZNW4D5 | .005 | 400 | 3/16 x 3/8 x 1 13/16 | .50 | .30 |
| ZNW4D6 | .006 | 400 | 3/16 x 3/8 x 1 13/16 | .50 | .30 |
| ZNW4S1 | .01 | 400 | 3/16 x 3/8 x 1 13/16 | .55 | .33 |
| ZNW1S1 | .01 | 150 | 3/16 x 3/8 x 1 13/16 | .45 | .27 |
| ZNW1S2 | .02 | 150 | 3/16 x 3/8 x 1 13/16 | .50 | .30 |
| ZNW1S3 | .03 | 150 | 3/16 x 3/8 x 1 13/16 | .50 | .30 |
| ZNW1S5 | .05 | 150 | 3/16 x 3/8 x 1 13/16 | .55 | .33 |
| ZNW1P1 | .1 | 150 | 3/16 x 3/8 x 1 13/16 | .65 | .39 |



TYPE PTE

"BLUE CUB" MOULDED CAPACITORS

These "Blue Cub" moulded plastic tubulars are especially designed for use in television sets, auto radio, a.c.-d.c. sets and other equipment where high temperatures are encountered. No shock, no vibration is too much for them. They are Vikane* impregnated with leads welded to the capacitor section and sealed in solid mold construction with final seal-dip of special moisture-proof compound. Capacity remains constant within 5% under most severe conditions of humidity and temperature from 70°F. to 212°F.

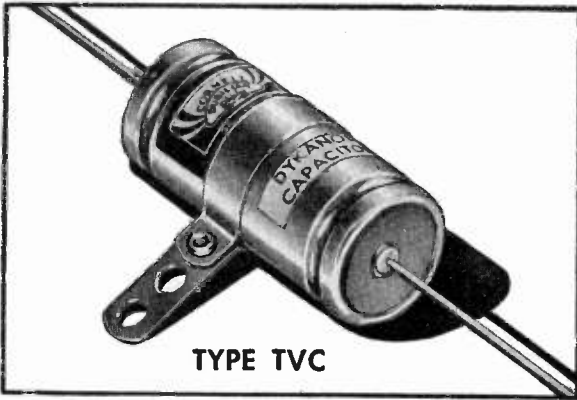
TYPE PTE "BLUE CUB" CAPACITORS

| Cat. No. | Cap. Mfd. | Size—Inches Dia. x Length | List Price | Net Price |
|----------------------|-----------|---------------------------|------------|-----------|
| 400 V. D.C. | | | | |
| PTE4S1 | .01 | 1 1/2 x 1 1/16 | \$.25 | \$.15 |
| PTE4S2 | .02 | 1 1/8 x 1 1/16 | .25 | .15 |
| PTE4S5 | .05 | 1 1/2 x 1 1/16 | .30 | .18 |
| PTE4P1 | .1 | 1 1/8 x 1 1/16 | .35 | .21 |
| 600 V. D.C. | | | | |
| PTE6D1 | .001 | 1 1/2 x 1 1/16 | .25 | .15 |
| PTE6D2 | .002 | 1 1/2 x 1 1/16 | .25 | .15 |
| PTE6D3 | .003 | 1 1/2 x 1 1/16 | .25 | .15 |
| PTE6D4 | .004 | 1 1/2 x 1 1/16 | .25 | .15 |
| PTE6D5 | .005 | 1 1/2 x 1 1/16 | .25 | .15 |
| PTE6D6 | .006 | 7/8 x 1 1/16 | .25 | .15 |
| PTE6S1 | .01 | 7/8 x 1 1/16 | .30 | .18 |
| PTE6S15 | .015 | 7/8 x 1 1/8 | .30 | .18 |
| PTE6S2 | .02 | 3/4 x 1 1/16 | .30 | .18 |
| PTE6S3 | .03 | 3/8 x 1 1/16 | .35 | .21 |
| PTE6S4 | .04 | 3/8 x 1 1/16 | .35 | .21 |
| PTE6S5 | .05 | 3/8 x 1 1/16 | .40 | .24 |
| PTE6P1 | .1 | 1 1/8 x 1 13/16 | .45 | .27 |
| 1600 V. D.C. | | | | |
| PTE16D1 | .001 | 7/16 x 1 3/8 | .55 | .33 |
| PTE16D2 | .002 | 7/16 x 1 3/8 | .55 | .33 |
| PTE16D3 | .003 | 7/16 x 1 3/8 | .55 | .33 |
| PTE16D4 | .004 | 3/8 x 1 3/8 | .55 | .33 |
| PTE16D5 | .005 | 3/8 x 1 3/8 | .55 | .33 |
| PTE16D55 | .0055 | 3/8 x 1 3/8 | .55 | .33 |
| PTE16D6 | .006 | 3/8 x 1 3/8 | .55 | .33 |
| PTE16D7 | .007 | 3/8 x 1 3/8 | .55 | .33 |
| PTE16D75 | .0075 | 3/8 x 1 3/8 | .55 | .33 |
| PTE16D8 | .008 | 3/8 x 1 3/8 | .55 | .33 |
| PTE16S1 | .01 | 3/8 x 1 3/8 | .60 | .36 |
| PTE16S15 | .015 | 3/8 x 1 3/8 | .60 | .36 |
| PTE16S2 | .02 | 1 1/16 x 1 13/16 | .60 | .36 |
| PTE16S25 | .025 | 1 1/16 x 1 13/16 | .60 | .36 |
| PTE16S3 | .03 | 1 1/16 x 1 13/16 | .60 | .36 |
| PTE16S4 | .04 | 1 1/16 x 1 13/16 | .60 | .36 |
| 6000 V. D.C. | | | | |
| PTE60T5 | .0005 | 1 1/16 x 1 13/16 | 1.35 | .81 |
| PTE60D1 | .001 | 1 1/16 x 1 13/16 | 1.35 | .81 |
| PTE60D5 | .005 | 1 1/16 x 1 13/16 | 1.35 | .81 |
| 10000 V. D.C. | | | | |
| PTE100T5 | .0005 | 1 1/16 x 1 13/16 | 1.50 | .90 |

* Req. U. S. Pat. Off.



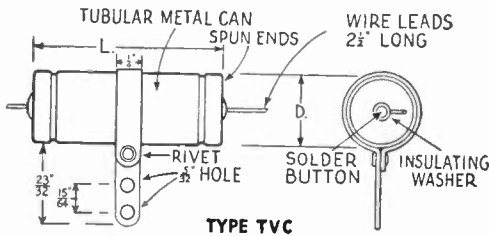
TUBULAR TELEVISION CAPACITORS



TYPE TVC

OIL-IMPREGNATED METAL TUBULAR UNITS

Type TVC capacitors are compact tubular metal can type units designed to withstand severe climatic conditions. They are non-inductively wound, impregnated with Dykanol "B" to maintain high insulation resistance.

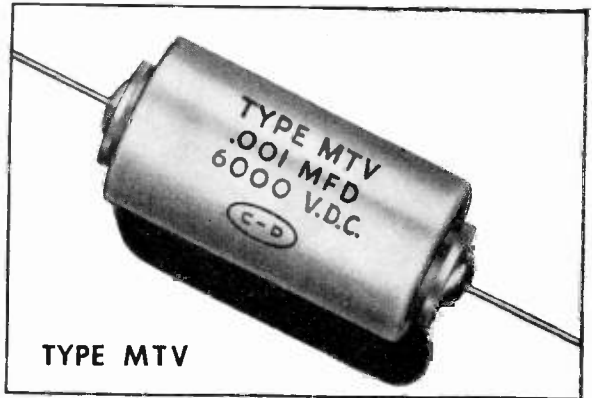


TYPE TVC

TYPE TVC—Oil-Impregnated Capacitors*

| Cat. No. | Cap. Mfd. | Size—Inches Dia. x Length | List Price | Net Price |
|-------------------------|-----------|------------------------------------|------------|-----------|
| 400 V. D.C. | | | | |
| TVC 4D5 | .005 | $\frac{7}{16} \times 1\frac{1}{8}$ | \$0.90 | \$0.54 |
| TVC 4S1 | .01 | $\frac{7}{16} \times 1\frac{1}{8}$ | .90 | .54 |
| TVC 4S15 | .015 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.00 | .60 |
| TVC 4S2 | .02 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.00 | .60 |
| TVC 4S3 | .03 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.05 | .63 |
| TVC 4S4 | .04 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.05 | .63 |
| TVC 4S5 | .05 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.05 | .63 |
| TVC 4P1 | .1 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.15 | .69 |
| TVC 4P25 | .25 | $\frac{8}{8} \times 2\frac{1}{16}$ | 1.45 | .87 |
| TVC 4P5 | .5 | $1 \times 2\frac{1}{16}$ | 1.70 | 1.02 |
| 600 V. D.C. | | | | |
| TVC 6D5 | .005 | $\frac{7}{16} \times 1\frac{1}{8}$ | .95 | .57 |
| TVC 6S1 | .01 | $\frac{7}{16} \times 1\frac{1}{8}$ | .95 | .57 |
| TVC 6S15 | .015 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.00 | .60 |
| TVC 6S2 | .02 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.05 | .63 |
| TVC 6S3 | .03 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.10 | .66 |
| TVC 6S4 | .04 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.10 | .66 |
| TVC 6S5 | .05 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.10 | .66 |
| TVC 6P1 | .1 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.25 | .75 |
| TVC 6P25 | .25 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.70 | 1.02 |
| TVC 6P5 | .5 | $1 \times 1\frac{1}{16}$ | 2.20 | 1.32 |
| 1000 V. D.C. | | | | |
| TVC 10D5 | .005 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.10 | .66 |
| TVC 10S1 | .01 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.10 | .66 |
| TVC 10S15 | .015 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.20 | .72 |
| TVC 10S2 | .02 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.20 | .72 |
| TVC 10S3 | .03 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.20 | .72 |
| TVC 10S4 | .04 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.20 | .72 |
| TVC 10S5 | .05 | $\frac{7}{16} \times 1\frac{1}{8}$ | 1.30 | .78 |
| TVC 10P1 | .1 | $\frac{8}{8} \times 2\frac{1}{16}$ | 1.50 | .90 |
| OIL-FILLED UNITS | | | | |
| 1600 V. D.C. | | | | |
| TVC 16D5 | .005 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.20 | .72 |
| TVC 16S1 | .01 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.20 | .72 |
| TVC 16S15 | .015 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.25 | .75 |
| TVC 16S2 | .02 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.30 | .78 |
| TVC 16S3 | .03 | $\frac{8}{8} \times 2\frac{1}{16}$ | 1.30 | .78 |
| TVC 16S4 | .04 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.30 | .78 |
| TVC 16S5 | .05 | $\frac{8}{8} \times 1\frac{1}{8}$ | 1.40 | .84 |

*For units provided with insulating sleeve over metal tube add 10c to list price. When ordering add "-6" to Cat. No. (Example TVC 4D5-6).



TYPE MTV

OIL-FILLED METAL TUBULAR UNITS

Type MTV capacitors are impregnated and filled with oil in hermetically sealed metal tube containers and provided with an insulating cardboard sleeve cover. They are small size units especially designed for use in assemblies where high temperatures are encountered, such as television receivers and similar high voltage equipment.

TYPE MTV—Oil-Filled Capacitors

| Cat. No. | Cap. Mfd. | Size—Inches Dia. x Length | List Price | Net Price |
|---------------------|-----------|------------------------------------|------------|-----------|
| 6000 V. D.C. | | | | |
| MTV 60T5 | .0005 | $1 \times 1\frac{3}{4}$ | \$1.30 | \$.78 |
| MTV 60D1 | .001 | $1 \times 1\frac{3}{4}$ | 1.30 | .78 |
| MTV 60D5 | .005 | $1 \times 1\frac{3}{4}$ | 1.30 | .78 |
| MTV 60S1 | .01 | $1 \times 2\frac{1}{4}$ | 1.40 | .84 |
| MTV 60S3 | .03 | $1\frac{1}{8} \times 2\frac{3}{8}$ | 1.50 | .90 |
| MTV 60S5 | .05 | $1\frac{1}{8} \times 3\frac{1}{4}$ | 1.60 | .96 |

"BLUE CUB" PLASTIC TUBULAR UNITS

Type PTE capacitors are Vikane* impregnated to withstand high voltage breakdown test at low power factor and moulded in plastic for permanency and durability to withstand humidity and temperatures up to 300° F. without softening. They are provided with **wire leads securely welded to the capacitor section** which insures against possible opens and intermittents.

TYPE PTE—Moulded Plastic Capacitors

| PTE | Cap. Mfd. | Size—Inches Dia. x Length | List Price | Net Price |
|----------------------|-----------|---------------------------------------|------------|-----------|
| 6000 V. D.C. | | | | |
| PTE 60T5 | .0005 | $1\frac{1}{16} \times 1\frac{15}{16}$ | \$1.35 | \$.81 |
| PTE 60D1 | .001 | $1\frac{1}{16} \times 1\frac{15}{16}$ | 1.35 | .81 |
| PTE 60D5 | .005 | $1\frac{1}{16} \times 1\frac{15}{16}$ | 1.35 | .81 |
| 10000 V. D.C. | | | | |
| PTE 100T5 | .0005 | $1\frac{1}{16} \times 1\frac{15}{16}$ | 1.50 | .90 |

DOUBLE-BUILT CARDBOARD TUBULAR UNITS

Type DSTH tubular capacitors are designed to meet the high voltage circuit requirements of television receivers, oscilloscopes, and similar high voltage electronic equipment. They are thoroughly impregnated in Vikane*, wax filled and completely enclosed in **two separate concentric-wrapped, wax-sealed cardboard tube casings**. They provide an extra wide margin of safety factor and reliable performance in all circuits within their rated operating voltages and temperature up to 185° F.

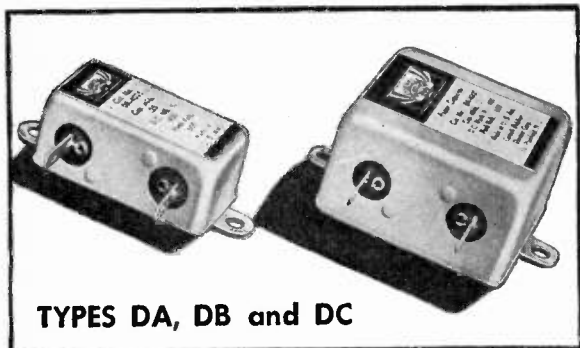
TYPE DSTH—VIKANE* Impregnated Capacitors

| DSTH | Cap. Mfd. | Size—Inches Dia. x Length | List Price | Net Price |
|---------------------|-----------|-------------------------------------|------------|-----------|
| 3000 V. D.C. | | | | |
| DSTH 30D1 | .001 | $\frac{3}{16} \times 2\frac{3}{8}$ | \$.95 | \$.57 |
| DSTH 30D5 | .005 | $\frac{3}{8} \times 2\frac{3}{8}$ | 1.00 | .60 |
| DSTH 30S1 | .01 | $1\frac{1}{16} \times 2\frac{3}{8}$ | 1.05 | .63 |
| DSTH 30S5 | .05 | $1\frac{1}{8} \times 3$ | 1.20 | .72 |
| 4000 V. D.C. | | | | |
| DSTH 40S1 | .01 | $1 \times 2\frac{3}{8}$ | 1.10 | .66 |
| DSTH 40S5 | .05 | $1\frac{1}{16} \times 3\frac{3}{8}$ | 1.25 | .75 |
| 6000 V. D.C. | | | | |
| DSTH 60T5 | .0005 | $\frac{3}{8} \times 2\frac{3}{4}$ | 1.10 | .66 |
| DSTH 60D1 | .001 | $\frac{3}{8} \times 2\frac{3}{4}$ | 1.10 | .66 |
| DSTH 60D5 | .005 | $1\frac{1}{16} \times 3\frac{3}{4}$ | 1.15 | .69 |
| DSTH 60S1 | .01 | $1\frac{1}{16} \times 3\frac{3}{4}$ | 1.20 | .72 |
| DSTH 60S5 | .05 | $1\frac{1}{16} \times 5$ | 1.35 | .81 |

*Reg. U. S. Pat. Off.



DRAWN METAL SHELL PAPER CAPACITORS



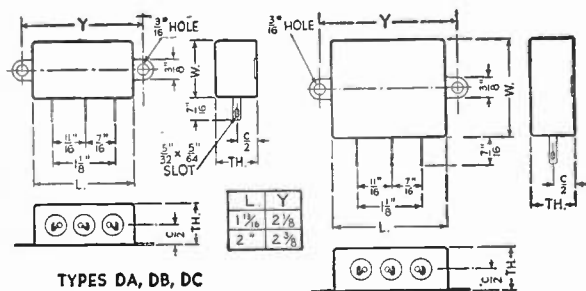
TYPES DA, DB and DC

WAX-FILLED CAPACITORS

Types DA to DC capacitors are non-inductively wound and wax-potted in drawn metal shell containers. They are available in a large variety of ratings for radio frequency bypass, audio frequency coupling and bypass functions. Lug terminals are amply insulated. Integral with casing, the mounting feet allow ease of assembly.

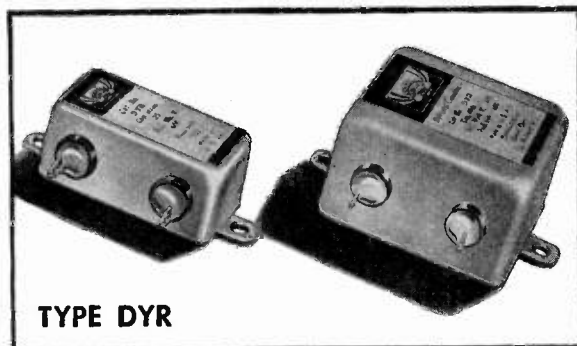
In the single and dual section capacitor units, the terminals are insulated from the container. The duals have three terminals, the common lug being on the left. In the triple section capacitors, the common terminal connection is grounded to the metal case.

All units are wound with the highest grade pure aluminum foil and multi-laminated kraft tissue, thoroughly dried under vacuum pressure, impregnated in the finest grade wax compound, oil-cooled, and potted in a special wax compound. Conservative D.C. ratings of these capacitors by triple testing assure dependable service in operation.



TYPES DA, DB, DC

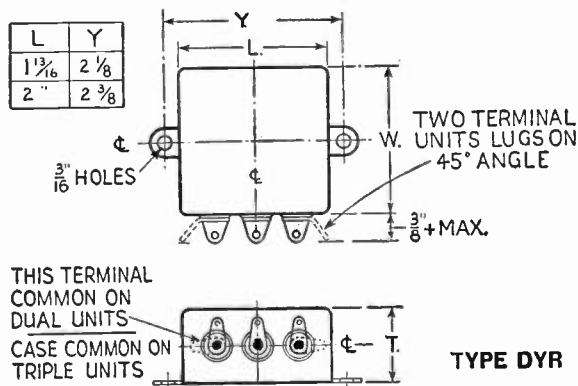
| Cat. No. | Cap. Mfd. | Size—Inches Lth. x Wid. x Thick. | List Price | Net Price |
|--------------------------|-----------|-------------------------------------|------------|-----------|
| 400 V. D.C. Work. | | | | |
| DA 4011 | .1 | 1 13/16 x 1 x 3/4 | \$1.75 | \$1.05 |
| DA 4025 | .25 | 1 13/16 x 1 x 3/4 | 2.00 | 1.20 |
| DA 4050 | .5 | 1 13/16 x 1 x 3/4 | 2.15 | 1.29 |
| DA 4100 | 1 | 2 x 2 x 1 3/4 x 1 1/8 | 2.60 | 1.56 |
| DA 4200 | 2 | 2 x 2 x 1 3/4 x 1 1/8 | 3.35 | 2.01 |
| DB 4010 | .1-1 | 1 13/16 x 1 x 3/4 | 2.75 | 1.65 |
| DB 4025 | .25-.25 | 2 x 2 x 1 3/4 x 3/4 | 3.00 | 1.80 |
| DB 4050 | .5-.5 | 2 x 2 x 1 3/4 x 1 | 3.50 | 2.10 |
| DC 4010 | .1-1-1 | 1 13/16 x 1 x 3/4 | 3.40 | 2.04 |
| 600 V. D.C. Work. | | | | |
| DA 6011 | .1 | 1 3/16 x 1 x 3/4 | 2.40 | 1.44 |
| DA 6025 | .25 | 1 13/16 x 1 3/4 x 3/4 | 2.55 | 1.53 |
| DA 6050 | .5 | 2 x 2 x 1 3/4 x 1 1/8 | 2.75 | 1.65 |
| DA 6100 | 1 | 2 x 2 x 2 x 1 3/8 | 3.15 | 1.89 |



TYPE DYR

DYKANOL-FILLED CAPACITORS

Type DYR Dykanol Bypass Capacitors are non-inductively wound and meet the need for dependable capacitors of fractional capacities that will operate efficiently in R.F. and A.F. bypass, audio frequency coupling and A.C. circuits under all humidity conditions and at temperatures up to approximately 85° C. (185° F.). They are built to stand an immersion test in hot water and have been specially designed to fill the severe requirements of aircraft, submarine, marine and tropical applications for maximum capacity and voltage in minimum space, where quality and reliability are of paramount importance. They are impregnated and filled with Dykanol "G" and sealed in metal cases with leakproof riveted terminals.

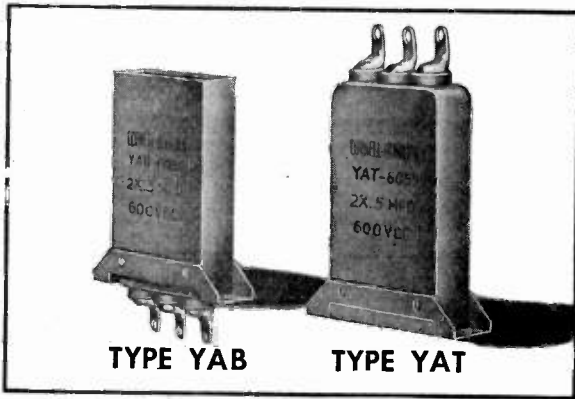


TYPE DYR

| Cat. No. | Cap. Mfd. | Size—Inches Lth. x Wid. x Thick. | List Price | Net Price |
|---------------------------|-------------|-------------------------------------|------------|-----------|
| 600 V. D.C. Work. | | | | |
| DYR 6005 | .05 | 1 13/16 x 1 x 3/4 | \$2.60 | \$1.56 |
| DYR 6010 | .1 | 1 13/16 x 1 x 3/4 | 2.65 | 1.59 |
| DYR 6025 | .25 | 1 13/16 x 1 x 3/4 | 2.80 | 1.68 |
| DYR 6050 | .5 | 1 13/16 x 1 x 3/4 | 3.00 | 1.80 |
| DYR 6100 | 1 | 2 x 2 x 1 3/4 x 1 1/8 | 3.40 | 2.04 |
| DYR 6200 | 2 | 2 x 2 x 1 3/4 x 1 1/8 | 4.55 | 2.73 |
| DYR 60055 | .05-.05 | 1 13/16 x 1 x 3/4 | 3.30 | 1.98 |
| DYR 6011 | 1-1 | 1 13/16 x 1 x 3/4 | 3.35 | 2.01 |
| DYR 6022 | .25-.25 | 1 13/16 x 1 3/4 x 3/4 | 3.40 | 2.04 |
| DYR 6055 | .5-.5 | 2 x 2 x 1 3/4 x 1 1/8 | 3.90 | 2.34 |
| DYR 6110 | 1-1 | 2 x 2 x 1 3/4 x 1 1/8 | 4.80 | 2.88 |
| DYR 6111 | 1-1-1 | 1 13/16 x 1 x 3/4 | 3.80 | 2.28 |
| DYR 6222 | .25-.25-.25 | 2 x 2 x 1 3/4 x 1 1/8 | 4.30 | 2.58 |
| DYR 6555 | .5-.5-.5 | 2 x 2 x 1 3/4 x 1 1/8 | 5.20 | 3.12 |
| 1000 V. D.C. Work. | | | | |
| DYR 10005 | .05 | 1 13/16 x 1 x 3/4 | 2.75 | 1.65 |
| DYR 10010 | .1 | 1 13/16 x 1 x 3/4 | 2.85 | 1.71 |
| DYR 10025 | .25 | 1 13/16 x 1 x 3/4 | 2.95 | 1.77 |
| DYR 10050 | .5 | 2 x 2 x 1 3/4 x 1 1/8 | 3.20 | 1.92 |
| DYR 10100 | 1 | 2 x 2 x 2 x 1 3/8 | 4.00 | 2.40 |
| DYR 100055 | .05-.05 | 1 13/16 x 1 x 3/4 | 3.50 | 2.10 |
| DYR 10011 | 1-1 | 1 13/16 x 1 x 3/4 | 3.60 | 2.16 |
| DYR 10022 | .25-.25 | 2 x 2 x 1 3/4 x 1 1/8 | 3.80 | 2.28 |
| DYR 10055 | .5-.5 | 2 x 2 x 2 x 1 3/8 | 4.95 | 2.97 |
| DYR 10111 | 1-1-1 | 1 13/16 x 1 1/4 x 3/4 | 4.15 | 2.49 |
| DYR 10222 | .25-.25-.25 | 2 x 2 x 2 x 1 3/8 | 5.00 | 3.00 |



DRAWN METAL SHELL PAPER CAPACITORS



TYPE YAB

TYPE YAT

COMPACT DYKANOL CAPACITORS

Types YAT and YAB are impregnated and filled with Dykanol "G" (chlorinated diphenyl) a synthetic, non-inflammable, non-oxidizable liquid compound which is unaffected by wide latitude of temperature changes or voltage stresses. They are especially suited for use in bypass, audio frequency coupling circuits and other applications where conditions of high humidity and temperatures are encountered.

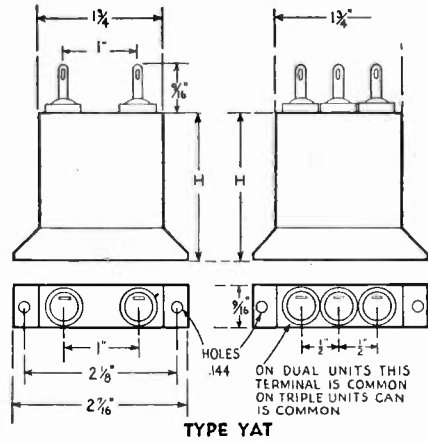
Units are sealed in drawn metal shell containers and provided with leakproof terminals either on top or bottom of the can containers, designated as Types YAT and YAB accordingly. All units are provided with rugged metal mounting brackets which provide rigid mountings. Two or more units may be mounted close together in an assembly. Single section units are provided with two terminals while dual and triple section units have three terminals. In single and dual section units terminals are insulated from the metal container. The third terminal of dual section units is the common terminal and marked for identification. In triple section units the common terminal connection is grounded to the metal case.

Types WAT and WAB Capacitors are smaller size units of similar construction and electrical characteristics but only supplied in single section units with two terminals. These units are ideally suited for use in assemblies where space is limited and multiple units may be mounted close together for compactness.

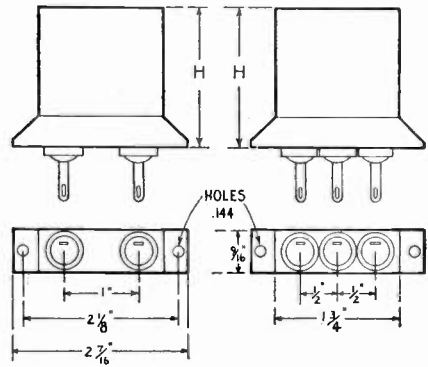
TYPES YAT AND YAB—Dykanol "G" Impregnated and Filled Units

| Cat. Nos. | Cap. Mid. | Size—Inches L. x W. x H. | List Price | Net Price |
|--------------------------|-------------|---|------------|-----------|
| 600 V. D.C. Work. | | | | |
| YAT or YAB 6005 | .05 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 | \$3.25 | \$1.95 |
| YAT or YAB 6010 | .1 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 | 3.25 | 1.95 |
| YAT or YAB 6025 | .25 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 3.50 | 2.10 |
| YAT or YAB 6050 | .5 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 3.75 | 2.25 |
| YAT or YAB 6100 | 1.0 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 2 1/2 | 4.25 | 2.55 |
| YAT or YAB 60055 | .05-.05 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 | 3.30 | 1.98 |
| YAT or YAB 6011 | .1-.1 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.25 | 2.55 |
| YAT or YAB 6022 | .25-.25 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.25 | 2.55 |
| YAT or YAB 6055 | .5-.5 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.25 | 2.55 |
| YAT or YAB 60555 | .05-.05-.05 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 2 1/2 | 5.00 | 3.00 |
| YAT or YAB 6111 | .1-.1-.1 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.75 | 2.85 |
| YAT or YAB 6222 | .25-.25-.25 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 2 1/2 | 5.25 | 3.15 |

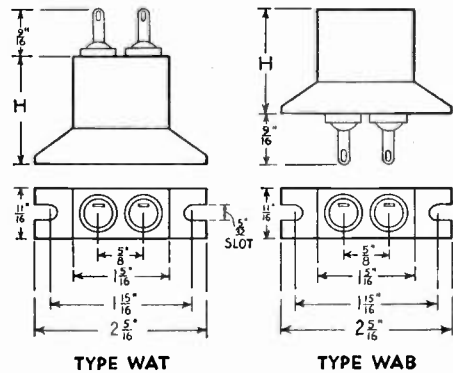
| Cat. Nos. | Cap. Mid. | Size—Inches L. x W. x H. | List Price | Net Price |
|---------------------------|-------------|---|------------|-----------|
| 1000 V. D.C. Work. | | | | |
| YAT or YAB 10005 | .05 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 | \$3.35 | \$2.01 |
| YAT or YAB 10010 | .1 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 | 3.60 | 2.16 |
| YAT or YAB 10025 | .25 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 3.75 | 2.25 |
| YAT or YAB 10050 | .5 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.00 | 2.40 |
| YAT or YAB 10055 | .05-.05 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.00 | 2.40 |
| YAT or YAB 10011 | .1-.1 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.50 | 2.70 |
| YAT or YAB 10022 | .25-.25 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 4.75 | 2.85 |
| YAT or YAB 100555 | .05-.05-.05 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 1 1/2 | 5.25 | 3.15 |
| YAT or YAB 10111 | .1-.1-.1 | 2 ¹ / ₁₆ x 9 ¹ / ₁₆ x 2 1/2 | 5.75 | 3.45 |



TYPE YAT



TYPE YAB



TYPE WAT

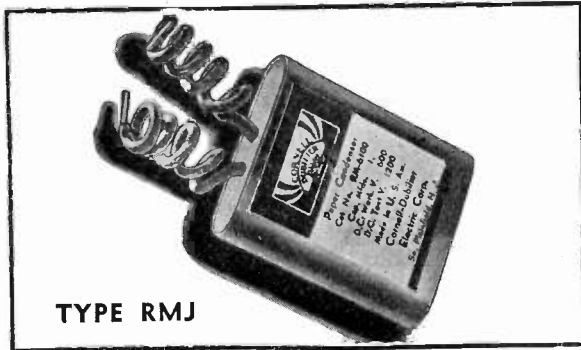
TYPE WAB

TYPES WAT AND WAB—Dykanol "G" Impregnated and Filled Units

| Cat. Nos. | Cap. Mid. | Size—Inches L. x W. x H. | List Price | Net Price |
|---------------------------|-----------|--|------------|-----------|
| 600 V. D.C. Work. | | | | |
| WAT or WAB 6005 | .05 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 ¹ / ₁₆ | \$3.50 | \$2.10 |
| WAT or WAB 6010 | .1 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 ¹ / ₁₆ | 3.75 | 2.25 |
| WAT or WAB 6025 | .25 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 1/2 | 4.00 | 2.40 |
| WAT or WAB 6050 | .5 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 1/2 | 4.25 | 2.55 |
| WAT or WAB 6100 | 1.0 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 2 1/2 | 4.75 | 2.85 |
| 1000 V. D.C. Work. | | | | |
| WAT or WAB 10005 | .05 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 ¹ / ₁₆ | \$3.75 | \$2.25 |
| WAT or WAB 10010 | .1 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 ¹ / ₁₆ | 3.75 | 2.25 |
| WAT or WAB 10025 | .25 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 1/2 | 4.00 | 2.40 |
| WAT or WAB 10050 | .5 | 2 ⁵ / ₁₆ x 1 ¹ / ₁₆ x 1 1/2 | 4.00 | 2.40 |



REPLACEMENT PAPER CAPACITORS

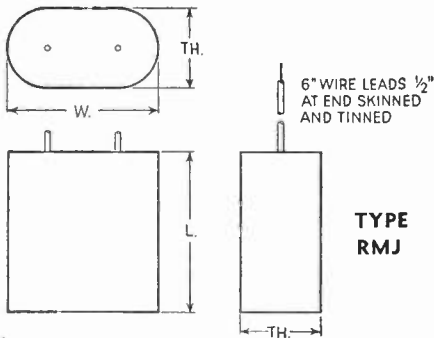


TYPE RMJ

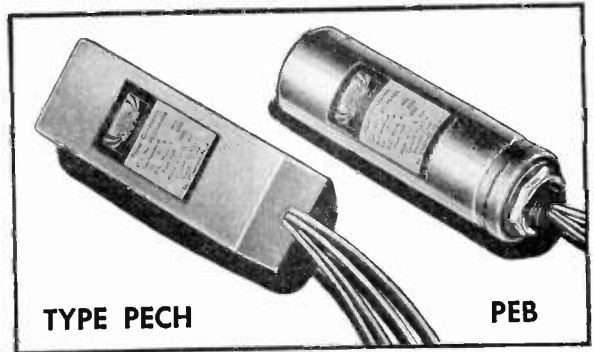
UNCASED PAPER CAPACITORS

Type RMJ uncased capacitors are made available to repair paper dielectric filter blocks which were used in the early models of A.C. operated radio sets. Also useful in the elimination of electrical interference caused by pushbuttons, bells, buzzers, and similar applications in radio, electronic and electrical devices.

Special capacitor units can be made up and potted into suitable containers by servicemen to fulfill many requirements.



TYPE RMJ

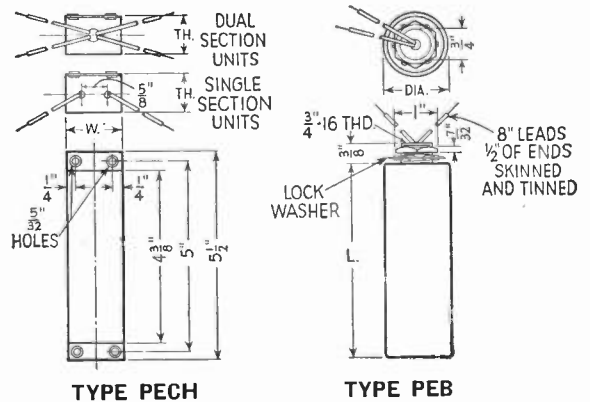


TYPE PECH

PEB

REPLACEMENTS FOR ELECTROLYTICS

Paper Replacement Capacitors that simulate electrolytics in appearance; these types fulfill many service requirements. There is no polarity to observe when using these capacitors. Mounting flanges are provided on all cardboard box units. Dual section units have separate leads.



TYPE PECH

TYPE PEB

| Cat. No. | Cap. Mid. | Size—Inches Lth. x Wid. x Thick. | List Price | Net Price |
|--------------------|-----------|-------------------------------------|------------|-----------|
| 600 V. D.C. | | | | |
| RMJ 6010 | .1 | 2 x 1 x 1/4 | \$0.80 | \$0.48 |
| RMJ 6025 | .25 | 2 x 1 x 1/2 | .90 | .54 |
| RMJ 6050 | .5 | 2 x 1 1/2 x 2 1/2 | 1.05 | .63 |
| RMJ 6100 | 1 | 2 x 2 x 1 5/8 | 1.40 | .84 |
| RMJ 6200 | 2 | 3 1/2 x 2 x 1 | 2.10 | 1.26 |
| RMJ 6400 | 4 | 4 3/8 x 2 1/8 x 1 1/2 | 3.80 | 2.28 |

| Cat. No. | "Replace-ment" for Electrolytic Cap. Mid. | Actual Capacity Approx. Mid. | Size—Inches Length x Width x Thickness | List Price | Net Price |
|--------------------|---|------------------------------|---|------------|-----------|
| 600 V. D.C. | | | | | |
| PECH 6004 | 4 | 2 | 4 3/8 x 1 3/8 x 1 5/16 | \$2.00 | \$1.20 |
| PECH 6008 | 8 | 5.5 | 4 3/8 x 1 3/8 x 1 1/8 | 3.25 | 1.95 |
| PECH 6808 | 8-8 | 2.7-2.7 | 4 3/8 x 2 x 1 1/2 | 4.00 | 2.40 |
| PEB 6004 | 4 | 1.75 | 4 3/8 x 1 3/8 | 2.10 | 1.26 |
| PEB 6008 | 8 | 2.75 | 4 3/8 x 1 3/8 | 3.50 | 2.10 |
| PEB 6808 | 8-8 | 1.7-1.7 | 4 3/8 x 1 1/2 | 4.30 | 2.58 |



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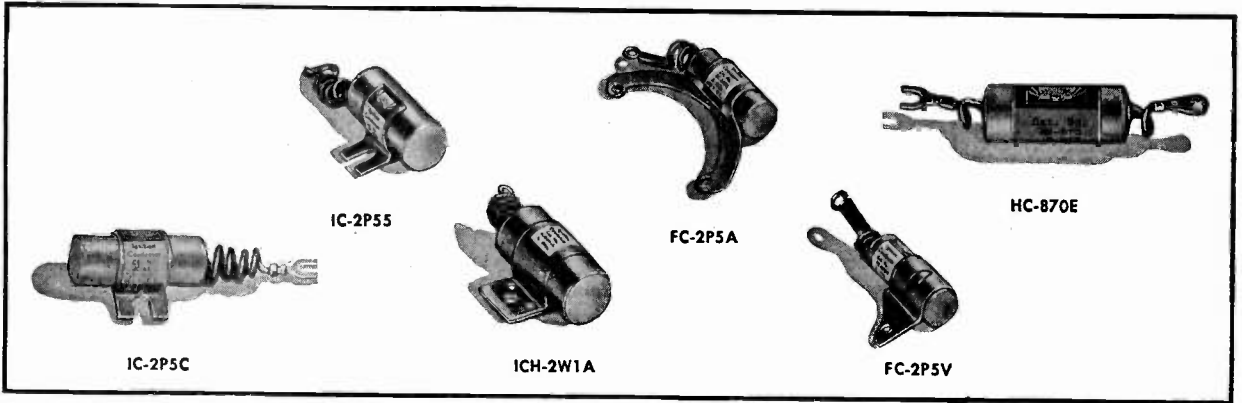
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AUTO RADIO CAPACITORS



MOTOR GENERATOR AMMETER AND BUFFER CAPACITORS

The mechanical design of C-D Auto Radio Capacitors insures against damage by the high temperatures and excessive vibration existing under the hood of an auto. Special units such as these are designed for certain particular

installations. Thus, for instance, Ford generator capacitor, FC-2P5V, has a special mounting bracket while others are also provided with special mountings and terminals.

GENERATOR UNITS

| Cat. No. | Cap. Mfd. | Size—Inches L.th. x Dia. | List Price | Net Price |
|-----------|-----------|-----------------------------|------------|-----------|
| ICS 2S5A | .05 | 1 1/4 x 1 1/16 | \$.65 | \$0.39 |
| IC 2P5C | .5 | 1 7/8 x 1 1/16 | .65 | .39 |
| FC 2P5A | .5 | 1 7/8 x 1 1/16 | .85 | .51 |
| FC 2P5V | .5 | 1 7/8 x 1 1/16 | .65 | .39 |
| IC 2P55 | .5-.5 | 2 x 7/8 | 1.05 | .63 |
| ICH 2W1A | 1.0 | 2 3/16 x 1 | .90 | .54 |
| ICV 2P25A | .25 | 1 7/8 x 1 1/16 | .60 | .36 |
| ICV 2P5A | .5 | 1 3/8 x 1 1/16 | .65 | .39 |
| ICV 2W1A | 1.0 | 2 1/16 x 1 | .90 | .54 |

AMMETER UNIT

| | | | | |
|---------|----|---------|-------|--------|
| HC 870E | .5 | 3/4 x 2 | \$.65 | \$0.39 |
|---------|----|---------|-------|--------|

MOTOROLA NO. 3321 VIBRATOR UNIT

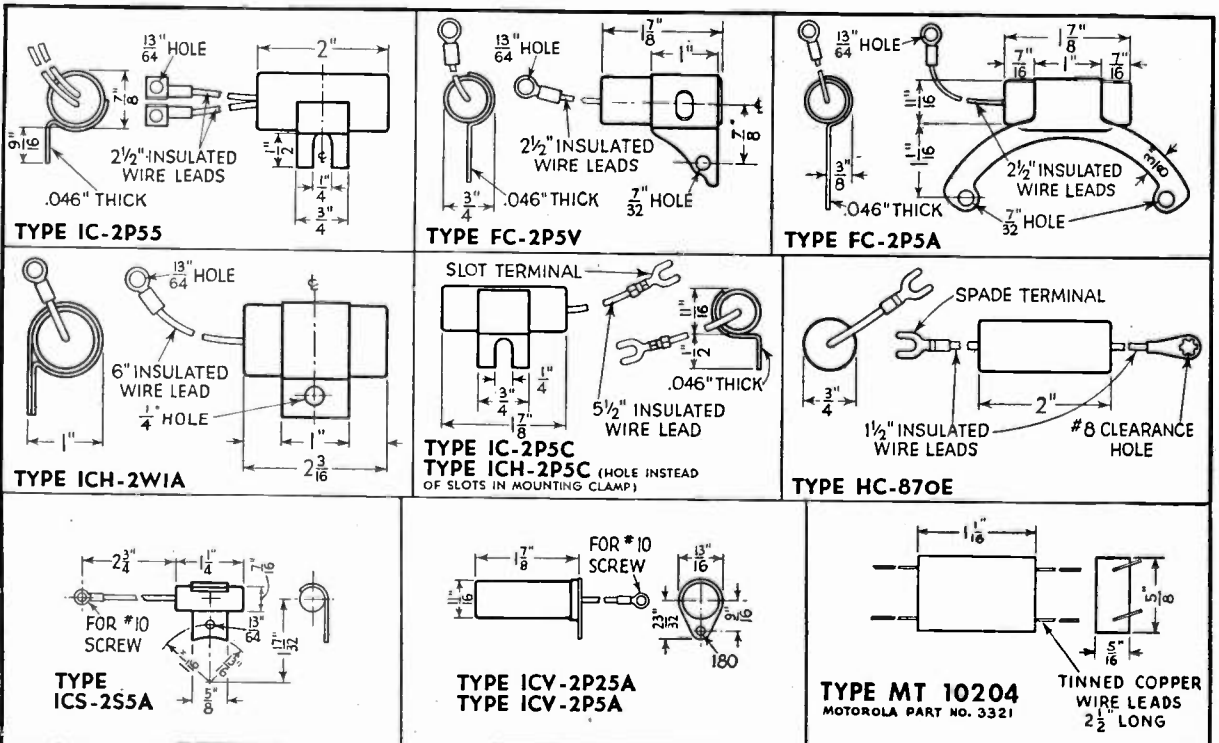
| Cat. No. | Cap. Mfd. | V. D.C. | Size—Inches L. x W. T. | List Price | Net Price |
|----------|-----------|---------|---------------------------|------------|-----------|
| MT 10204 | 2 x .0008 | 1600 | 5/8 x 1 1/8 x 5/16 | \$.65 | \$.39 |

VIBRATOR BUFFER UNITS

| Cat. No. | Cap. Mfd. | Size—Inches Dia. x Lgth. | List Price | Net Price |
|------------|-----------|-----------------------------|------------|-----------|
| TVC 16D5-6 | .005 | 1 1/8 x 1 1/2 | \$1.20 | \$0.72 |
| TVC 16D7-6 | .007 | 1 1/8 x 1 1/2 | 1.20 | .72 |
| TVC 16S1-6 | .01 | 1 1/8 x 1 1/2 | 1.20 | .72 |
| TVC 16S2-6 | .02 | 1 1/8 x 1 1/2 | 1.30 | .78 |

Metal cased oil-impregnated and processed tubular paper capacitors with cardboard insulating sleeve and mounting strap. 2000 V.D.C. Peak.

For oil-impregnated and processed paper tubular capacitors, see Type PTE listed on page 8.

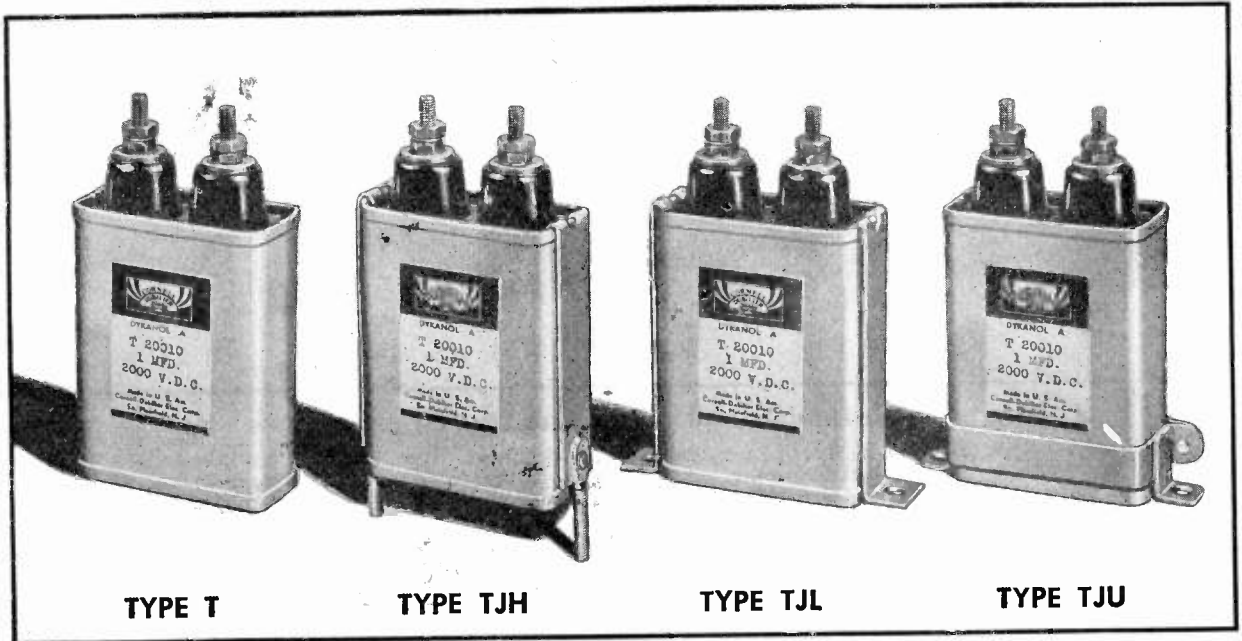


CORNELL



DUBILIER

DYKANOL TRANSMITTING CAPACITORS



TYPE T

TYPE TJH

TYPE TJL

TYPE TJU

TYPE T CAPACITORS WITH VARIOUS TYPES OF MOUNTINGS

Type T-series Dykanol transmitting capacitors are the finest and most dependable units obtainable for use in all amateur, broadcast and commercial equipment. Units are provided with well insulated terminals, and mountings desired as shown in the accompanying illustrations. These units are standard in thousands of broadcast and government stations all over the world, and also employed in all types of sound equipment, television receivers and transmitters, and other electronic apparatus.

Type T capacitors are thoroughly impregnated and filled with Dykanol "G" (chlorinated diphenyl), a non-inflammable, fireproof, non-oxidizable liquid compound which provides a high factor of safety and exceptionally long life at high temperatures.

In the past, organic oils, resins, and waxes were used as paper impregnants in electrical insulation. Because of the variation of these natural materials, uniformity of results could be desired only and not attained. The concentrated attention of chemists and electrical engineers, was turned toward the development of non-organic, synthetic substitutes and new substances, the properties of which could be controlled and modified as desired. The chlorinated diphenyls were recognized as outstanding among the rapidly increasing number of synthetics available. Of these compounds, continued research pointed to one narrow group, that known as Dykanol "G," the characteristics of which were particularly suited to the capacitor art. This material, having the lowest power factor compatible with the highest dielectric constant, is used as the impregnant in Type T capacitors.

For the dielectric separator in Type T capacitors, only the highest grade of kraft paper is used, ranging in thickness

from .0003 to .001 of an inch for a single sheet. Three or more layers of paper dielectric as a separator between foil members are always used. The higher voltage units use as many as six or more layers. This multiple lamination builds a high safety factor into Type T capacitors.

All paper is manufactured to meet rigid specifications and is subjected to a series of tests at the C-D laboratories before acceptance for use in these capacitors. The paper must be of exceptionally high quality to pass the tests. In order to determine its many characteristics, tests are made for porosity, tensile strength, effect of heating, conducting particles, dielectric strength, ash content and ash analysis, acidity or alkalinity, soluble impurities, general appearance, and mechanical considerations such as yield, thickness, width, etc.

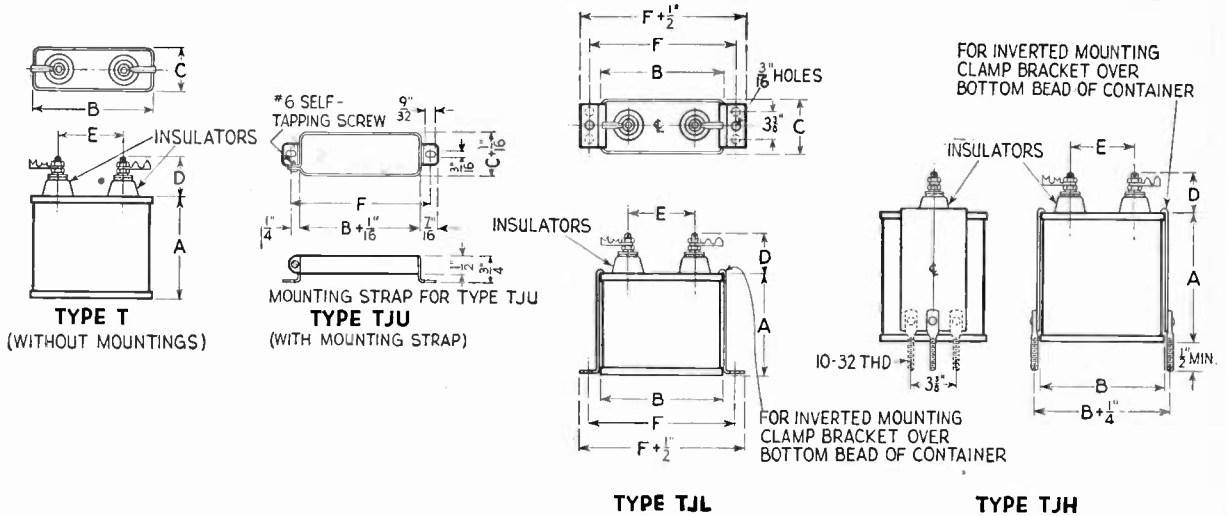
Due to the use of Dykanol "G" and multi-layer kraft capacitor tissue in these units, many outstanding advantages are thus gained, i.e., small size, light weight, low dielectric stress and long life at higher operating temperatures. The size is reduced due to the high dielectric constant of Dykanol "G" which also affords reduction in weight. A low dielectric stress is obtained as the result of efficient use of container volume, and the high specific inductive capacity of the impregnant. And since the dielectric stress is low, the life of the unit in operation is greatly increased. The synthetic liquid impregnant employed in these capacitors does not oxidize or deteriorate like commonly used organic oils. For complete listing of Type T-series, see next page.

For higher voltage units, ranging from 6000 to 25,000 v.d.c., write for data and prices on Type TK capacitors.

CORNELL DUBILIER



DYKANOL TRANSMITTING CAPACITORS



TYPE DESIGNATIONS—Type T (basic units) are without mountings. To order Types TJH, TJL or TJU with mountings as shown above, add letter symbols of type mountings desired to Cat. No. as follows:

- TYPE T—(Basic unit) without mountings.
- TYPE TJL—With mounting foot brackets.
- TYPE TJH—With screw spade-lug brackets.
- TYPE TJU—With universal mounting strap.

Prices below include mounting brackets or universal mounting strap when ordered according to these type numbers.

| Cat. No. | Cap. Mfd. | Dimensions—Inches | | | | | | List Price | Net Price |
|-----------------------------|-----------|-------------------|---------|-------|-----|---------|-------|------------|-----------|
| | | A | B | C | D | E | F | | |
| 600 V. D.C. Working | | | | | | | | | |
| T 6005 | .5 | 2 1/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | \$4.25 | \$2.55 |
| T 6010 | 1 | 2 1/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 5.25 | 3.15 |
| T 6020 | 2 | 2 7/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 6.50 | 3.90 |
| T 6030 | 3 | 3 3/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 7.50 | 4.50 |
| T 6040 | 4 | 3 3/8 | 2 1/8 | 1 1/8 | 7/8 | 1 13/16 | 3 | 8.25 | 4.95 |
| T 6050 | 5 | 4 3/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 9.50 | 5.70 |
| T 6060 | 6 | 4 3/8 | 2 1/8 | 1 1/8 | 7/8 | 1 13/16 | 3 | 10.25 | 6.15 |
| T 6080 | 8 | 3 13/16 | 3 3/4 | 1 1/4 | 7/8 | 1 1/2 | 4 3/8 | 12.25 | 7.35 |
| T 6100 | 10 | 4 5/8 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 13.75 | 8.25 |
| 1000 V. D.C. Working | | | | | | | | | |
| T 10001 | .1 | 2 1/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 3.75 | 2.25 |
| T 100025 | .25 | 2 1/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 4.25 | 2.55 |
| T 10005 | 5 | 2 1/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 4.50 | 2.70 |
| T 10010 | 1 | 2 7/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 5.75 | 3.45 |
| T 10020 | 2 | 4 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 7.50 | 4.50 |
| T 10030 | 3 | 3 1/4 | 2 1/8 | 1 1/8 | 7/8 | 1 13/16 | 3 | 8.75 | 5.25 |
| T 10040 | 4 | 4 5/8 | 2 1/8 | 1 1/8 | 7/8 | 1 13/16 | 3 | 9.50 | 5.70 |
| T 10050 | 5 | 3 13/16 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 11.50 | 6.90 |
| T 10060 | 6 | 4 3/8 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 12.75 | 7.65 |
| T 10080 | 8 | 4 3/8 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 13.75 | 8.25 |
| T 10100 | 10 | 4 3/8 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 15.25 | 9.15 |
| T 10120 | 12 | 3 13/16 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 16.50 | 9.90 |
| T 10150 | 15 | 4 3/8 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 18.25 | 10.95 |
| 1500 V. D.C. Working | | | | | | | | | |
| T 15005 | .5 | 2 7/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 5.75 | 3.45 |
| T 15010 | 1 | 4 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 6.75 | 4.05 |
| T 15020 | 2 | 4 1/4 | 2 1/8 | 1 1/8 | 7/8 | 1 13/16 | 3 | 9.50 | 5.70 |
| T 15030 | 3 | 4 3/4 | 2 1/8 | 1 1/8 | 7/8 | 1 13/16 | 3 | 11.25 | 6.75 |
| T 15040 | 4 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 12.75 | 7.65 |
| T 15050 | 5 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 13.75 | 8.25 |
| T 15060 | 6 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 15.50 | 9.30 |
| T 15080 | 8 | 4 3/4 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 19.00 | 11.40 |
| T 15100 | 10 | 4 3/4 | 3 3/4 | 3 1/8 | 7/8 | 2 | 4 3/8 | 22.75 | 13.65 |
| T 15120 | 12 | 4 3/4 | 3 3/4 | 3 3/8 | 7/8 | 2 | 4 3/8 | 24.75 | 14.85 |
| T 15150 | +15 | 4 3/4 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 27.25 | 16.35 |

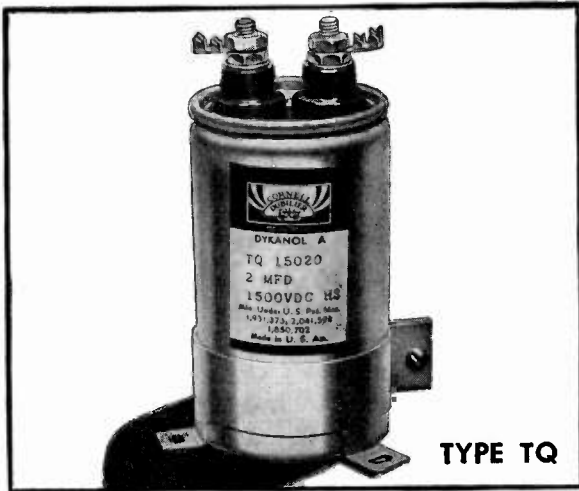
| Cat. No. | Cap. Mfd. | Dimensions—Inches | | | | | | List Price | Net Price |
|-----------------------------|-----------|-------------------|---------|-------|-----|---------|-------|------------|-----------|
| | | A | B | C | D | E | F | | |
| 2000 V. D.C. Working | | | | | | | | | |
| T 20001 | .1 | 2 1/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | \$6.00 | \$3.60 |
| T 200025 | .25 | 2 1/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 6.50 | 3.90 |
| T 20005 | .5 | 2 7/8 | 1 13/16 | 1 1/8 | 7/8 | 1 13/16 | 2 1/4 | 6.75 | 4.05 |
| T 20010 | 1 | 3 3/8 | 2 1/8 | 1 1/8 | 7/8 | 1 13/16 | 3 | 8.25 | 4.95 |
| T 20020 | 2 | 4 | 3 3/8 | 1 1/4 | 7/8 | 2 | 4 3/8 | 9.75 | 5.85 |
| T 20030 | 3 | 4 3/8 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 12.00 | 7.20 |
| T 20040 | 4 | 3 13/16 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 13.75 | 8.25 |
| T 20050 | 5 | 4 3/8 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 15.25 | 9.15 |
| T 20060 | 6 | 4 3/4 | 3 3/4 | 3 3/8 | 7/8 | 2 | 4 3/8 | 18.25 | 10.95 |
| T 20080 | 8 | 4 3/4 | 3 3/4 | 3 3/8 | 7/8 | 2 | 4 3/8 | 22.75 | 13.65 |
| T 20100 | +10 | 4 3/4 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 27.75 | 16.65 |
| T 20120 | +12 | 5 3/8 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 30.25 | 18.15 |
| 2500 V. D.C. Working | | | | | | | | | |
| T 25005 | .5 | 3 1/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 10.50 | 6.30 |
| T 25010 | 1 | 3 3/4 | 3 3/4 | 1 3/4 | 7/8 | 2 | 4 3/8 | 12.00 | 7.20 |
| T 25020 | 2 | 4 3/4 | 3 3/4 | 1 3/4 | 7/8 | 2 | 4 3/8 | 19.50 | 11.70 |
| T 25040 | +4 | 4 3/4 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 27.25 | 16.35 |
| T 25100A | +10 | 6 3/8 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 68.25 | 40.95 |
| 3000 V. D.C. Working | | | | | | | | | |
| T 30001 | .1 | 2 | 2 1/8 | 1 1/8 | 7/8 | 1 1/4 | 1 1/4 | 12.75 | 7.65 |
| T 300025 | .25 | 2 1/8 | 2 1/8 | 1 1/8 | 7/8 | 1 1/4 | 1 1/4 | 13.50 | 8.10 |
| T 30005 | .5 | 3 3/8 | 2 1/8 | 1 1/8 | 7/8 | 1 1/4 | 1 1/4 | 15.25 | 9.15 |
| T 30010 | 1 | 3 13/16 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 18.25 | 10.95 |
| T 30020 | 2 | 4 1/8 | 3 3/4 | 3 3/8 | 7/8 | 2 | 4 3/8 | 22.75 | 13.65 |
| T 30040 | +4 | 4 3/4 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 33.50 | 20.10 |
| 4000 V. D.C. Working | | | | | | | | | |
| T 40001 | .1 | 2 3/4 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 22.75 | 13.65 |
| T 400025 | .25 | 2 3/4 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 24.00 | 14.40 |
| T 40005 | .5 | 4 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 27.25 | 16.35 |
| T 40010 | 1 | 5 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 33.50 | 20.10 |
| T 40020 | +2 | 5 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 42.50 | 25.50 |
| T 40040A | +4 | 8 | 3 3/4 | 4 1/8 | 7/8 | 2 | 4 3/8 | 60.75 | 36.45 |
| 5000 V. D.C. Working | | | | | | | | | |
| T 50005 | .5 | 4 1/4 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 30.25 | 18.15 |
| T 50010 | +1 | 4 1/4 | 3 3/4 | 4 3/8 | 7/8 | 2 | 4 3/8 | 38.00 | 22.80 |
| T 50020 | +2 | 6 | 3 3/4 | 4 3/8 | 7/8 | 2 | 4 3/8 | 48.75 | 29.25 |
| 6000 V. D.C. Working | | | | | | | | | |
| T 60010A | +1 | 8 | 3 3/4 | 4 3/8 | 7/8 | 2 | 4 3/8 | 76.00 | 45.60 |

NOTES—Type TJU units are not furnished in these larger sizes.
 † TYPES TJL and TJH units furnished with two mounting holes or spade-lugs 3 3/8" apart. All other units furnished with a single mounting hole or spade-lug centered on each bracket.

For higher voltage units, from 6000 to 25,000 v.d.c., write for data and prices on Type TK capacitors.



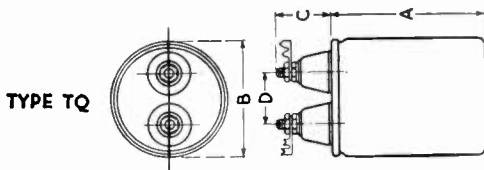
DYKANOL TRANSMITTING CAPACITORS



TYPE TQ

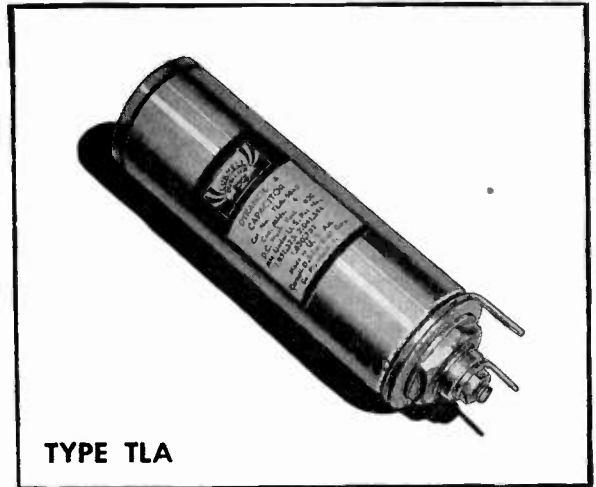
ROUND CAN-TYPE CAPACITORS

Type TQ Dykanol Capacitors, in round metal containers are provided with two insulated terminals and universal mounting rings for mounting the unit in any position with terminals either above or below a subpanel assembly.



TYPE TQ

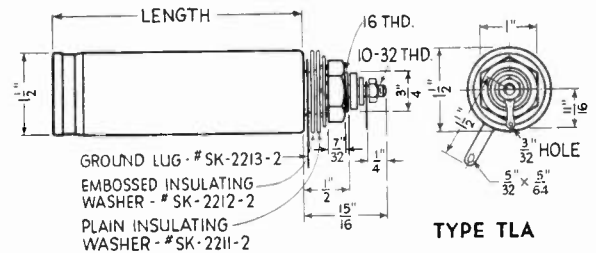
| Cat. No. | Cap. Mfd. | Dimensions—Inches | | | | List Price | Net Price |
|--------------------------------|-----------|-------------------|---|-------|---------|------------|-----------|
| | | A | B | C | D | | |
| 600 Volts D.C. Working | | | | | | | |
| TQ 6020 | 2 | 2 3/8 | 2 | 1 | 1 15/16 | \$4.95 | \$2.97 |
| TQ 6040 | 4 | 2 3/8 | 2 | 1 | 1 15/16 | 6.85 | 4.11 |
| 1000 Volts D.C. Working | | | | | | | |
| TQ 10010 | 1 | 1 7/8 | 2 | 1 | 1 15/16 | 4.20 | 2.52 |
| TQ 10020 | 2 | 2 1/8 | 2 | 1 | 1 15/16 | 5.70 | 3.42 |
| TQ 10040 | 4 | 3 3/8 | 2 | 1 | 1 15/16 | 7.25 | 4.35 |
| 1500 Volts D.C. Working | | | | | | | |
| TQ 15010 | 1 | 2 3/8 | 2 | 1 | 1 15/16 | 5.30 | 3.18 |
| TQ 15020 | 2 | 3 3/8 | 2 | 1 | 1 15/16 | 7.25 | 4.35 |
| 2000 Volts D.C. Working | | | | | | | |
| TQ 20010 | 1 | 3 1/8 | 2 | 1 | 1 15/16 | 6.85 | 4.11 |
| TQ 20020 | 2 | 4 3/8 | 2 | 1 | 1 15/16 | 7.60 | 4.56 |
| TQ 20040 | 4 | 4 3/8 | 3 | 1 1/4 | 1 1/4 | 10.75 | 6.45 |
| 3000 Volts D.C. Working | | | | | | | |
| TQ 30010 | 1 | 3 1/4 | 3 | 1 1/4 | 1 1/4 | 13.75 | 8.25 |
| TQ 30020 | 2 | 5 1/4 | 3 | 1 1/4 | 1 1/4 | 16.75 | 10.05 |



TYPE TLA

ONE-HOLE MOUNTING CAPACITORS

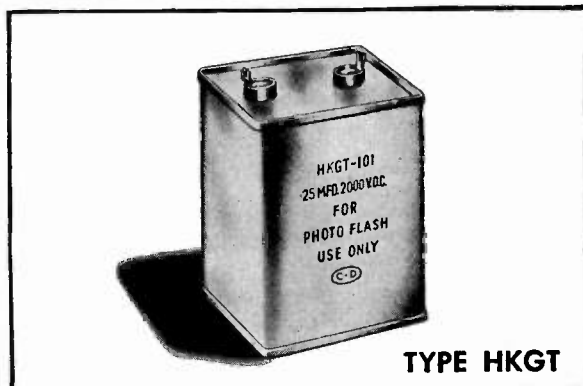
Type TLA capacitors are thoroughly impregnated and filled with Dykanol "G" (chlorinated diphenyl), a non-inflammable, fireproof, non-oxidizable liquid compound which provides a high factor of safety and exceptionally long life.



TYPE TLA

| Cat. No. | Cap. Mfd. | D.C. W. Volts | Size—Inches Lgth. x Diam. | List Price | Net Price |
|------------------|-----------|---------------|---------------------------|------------|-----------|
| TYPE TLA | | | | | |
| TLA 6020 | 2 | 600 | 2 7/8 x 1 1/2 | \$4.15 | \$2.49 |
| TLA 6040 | 4 | 600 | 4 1/2 x 1 1/2 | 5.70 | 3.42 |
| TLA 10010 | 1 | 1000 | 2 7/8 x 1 1/2 | 3.80 | 2.28 |
| TLA 10020 | 2 | 1000 | 4 1/2 x 1 1/2 | 4.95 | 2.97 |
| TLA 15005 | .5 | 1500 | 2 7/8 x 1 1/2 | 4.55 | 2.73 |
| TLA 15010 | 1 | 1500 | 4 1/2 x 1 1/2 | 4.95 | 2.97 |
| TYPE TLAD | | | | | |
| TLAD 6020 | 2 | 600 | 2 7/8 x 1 1/2 | \$4.90 | \$2.94 |
| TLAD 6040 | 4 | 600 | 4 1/2 x 1 1/2 | 6.45 | 3.87 |
| TLAD 10010 | 1 | 1000 | 2 7/8 x 1 1/2 | 4.55 | 2.73 |
| TLAD 10020 | 2 | 1000 | 4 1/2 x 1 1/2 | 5.70 | 3.42 |
| TLAD 15005 | .5 | 1500 | 2 7/8 x 1 1/2 | 5.30 | 3.18 |
| TLAD 15010 | 1 | 1500 | 4 1/2 x 1 1/2 | 5.70 | 3.42 |

Type TLAD units are insulated from can with two terminals.



TYPE HKGT

PHOTO-FLASH ENERGY STORAGE CAPACITORS

| Cat. No. | Cap. Mfd. | Watt Sec. | Size—Inches L. x W. x H. | Apprx. Wt. Lbs. | List Price | Net Price |
|--------------------------|-----------|-----------|--------------------------|-----------------|------------|-----------|
| 2000 V. D.C. Peak | | | | | | |
| HKGT 1A00 | 15 | 30 | 3 3/4 x 2 1/4 x 4 3/4 | 2 3/4 | \$17.00 | \$10.20 |
| HKGT 1A01 | 25 | 50 | 3 3/4 x 4 1/8 x 4 3/4 | 4 1/4 | 19.00 | 11.40 |
| 2250 V. D.C. Peak | | | | | | |
| HKGT 115 | 28 | 71 | 3 3/4 x 4 1/8 x 4 3/4 | 4 1/4 | 31.00 | 18.60 |
| 2500 V. D.C. Peak | | | | | | |
| HKGT 1A02 | 15 | 50 | 3 3/4 x 2 1/2 x 6 5/8 | 3 3/4 | 17.00 | 10.20 |
| HKGT 103 | 25 | 80 | 3 3/4 x 4 1/8 x 6 5/8 | 5 3/4 | 23.00 | 13.80 |
| HKGT 104 | 32 | 100 | 3 3/4 x 4 1/8 x 6 5/8 | 6 | 37.00 | 22.20 |
| 4000 V. D.C. Peak | | | | | | |
| T112-1 | 12 | 96 | 3 3/4 x 4 1/8 x 5 3/8 | 5 1/4 | 26.00 | 15.60 |

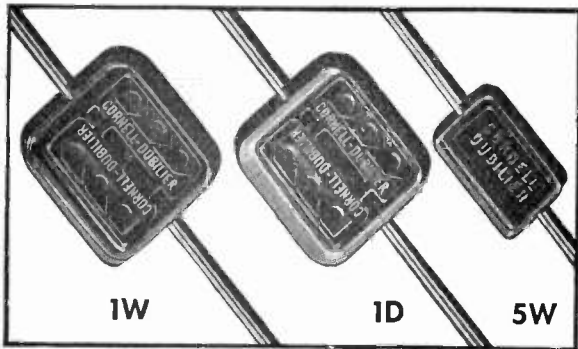
NOTE: Special units can also be furnished in other ratings or round can construction on special order upon request.

CORNELL



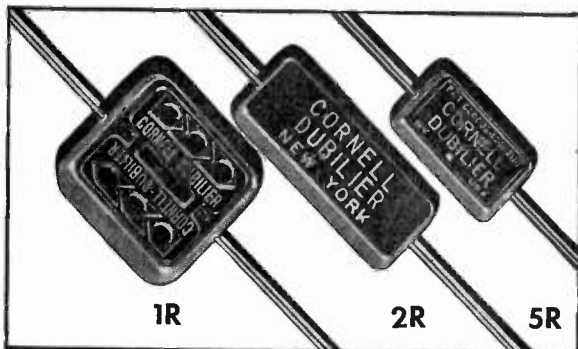
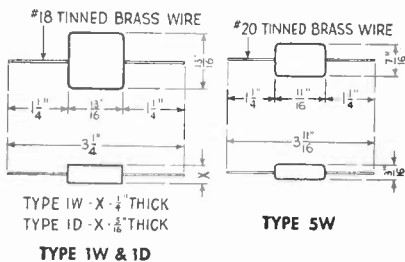
DUBILIER

MOULDED MICA RECEIVING CAPACITORS



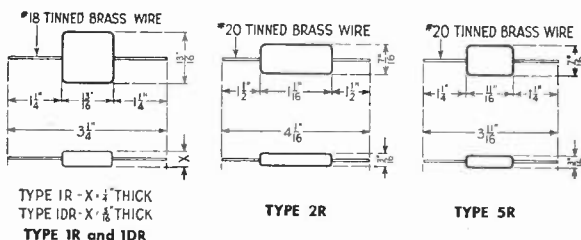
MOULDED BAKELITE UNITS

Types 1W, 1D, and 5W are suitable for numerous electronic uses and are specially adapted to serve many important functions in low-voltage radio receiving circuits. They are individually tested for accuracy of capacity and voltage breakdown and designed to give dependable service where small size units are required.



HIGH-STABILITY "SILVER-MIKE" UNITS

Types 1R, 1DR, 2R and 5R "Silver-Mike" silvered mica capacitors are designed for use in high Q electronic circuits where frequency stability and minimum loss must be maintained. They are ideally suited for use in circuits where the LC product must be maintained constant, and particularly adapted for use in tuning IF transformers, push-button tuning circuits and other similar applications. Standard units are moulded in low-loss red bakelite.



| Cap. Mfd. | 1000 V. D.C. Test—500 V. D.C. Work. | | | List Price | Net Price |
|-----------|-------------------------------------|---------------------|---------------------|------------|-----------|
| | Type 5W Cat. No. | Type 1W Cat. No. | Type 1D Cat. No. | | |
| .000005 | 5W 5V5 | | | \$0.25 | \$0.15 |
| .00001 | 5W 5Q1 | | | .25 | .15 |
| .00002 | 5W 5Q2 | | | .25 | .15 |
| .000025 | 5W 5Q25 | | | .25 | .15 |
| .00003 | 5W 5Q3 | | | .25 | .15 |
| .00004 | 5W 5Q4 | | | .20 | .12 |
| .00005 | 5W 5Q5 | | | .20 | .12 |
| .00007 | 5W 5Q7 | | | .20 | .12 |
| .0001 | 5W 5T1 | | | .20 | .12 |
| .00015 | 5W 5T15 | | | .20 | .12 |
| .0002 | 5W 5T2 | | | .25 | .15 |
| .00025 | 5W 5T25 | | | .25 | .15 |
| .0003 | 5W 5T3 | | | .25 | .15 |
| .0004 | 5W 5T4 | | | .25 | .15 |
| .0005 | 5W 5T5 | | | .25 | .15 |
| .0006 | | 1W 5T6 | | .25 | .15 |
| .0007 | | 1W 5T7 | | .25 | .15 |
| .0008 | | 1W 5T8 | | .25 | .15 |
| .0009 | | 1W 5T9 | | .25 | .15 |
| .001 | | 1W 5D1 | | .30 | .18 |
| .0015 | | 1W 5D15 | | .30 | .18 |
| .002 | | 1W 5D2 | | .40 | .24 |
| .0025 | | 1W 5D25 | | .45 | .27 |
| .003 | | 1W 5D3 | | .50 | .30 |
| .004 | | | 1D 5D4 | .55 | .33 |
| .005 | | | 1D 5D5 | .60 | .36 |
| .006 | | | 1D 5D6 | .75 | .45 |
| | | | 600 V. D.C. Test | | |
| | | | 300 V. D.C. Working | | |
| .007 | | | 1D 3D7 | .90 | .54 |
| .008 | | | 1D 3D8 | 1.00 | .60 |
| .009 | | | 1D 3D9 | 1.00 | .60 |
| .01 | | | 1D 3S1 | 1.20 | .72 |

Notes On Ordering Special Units

The listing above gives the range of capacities available from stock. Intermediate capacities, not exceeding the maximum as listed for each type, can also be furnished upon request.

Standard capacity tolerance is plus or minus 20%. Also available, on order, in plus or minus 10%, 5%, 3% and 2% tolerance ratings (or within 1 mmfd.—whichever is greater). For capacity tolerance of: 10% add 10% to list prices; 5% add 20% to list prices; 3% add 40% to list prices; 2% add 75% to list prices.

| Cap. Mfd. | 1000 V. D.C. Test—500 V. D.C. Work. | | | List Price | Net Price |
|-----------|-------------------------------------|---------------------|---------------------------|------------|-----------|
| | Type 5R Cat. No. | Type 2R Cat. No. | Type 1R & 1DR Cat. No. | | |
| .000005 | 5R 5V5 | | | \$0.45 | \$0.27 |
| .00001 | 5R 5Q1 | | | .40 | .24 |
| .00002 | 5R 5Q2 | | | .40 | .24 |
| .000025 | 5R 5Q25 | | | .40 | .24 |
| .00003 | 5R 5Q3 | | | .40 | .24 |
| .00004 | 5R 5Q4 | | | .40 | .24 |
| .00005 | 5R 5Q5 | | | .40 | .24 |
| .00007 | 5R 5Q7 | | | .40 | .24 |
| .0001 | 5R 5T1 | 2R 5T1 | | .40 | .24 |
| .00015 | 5R 5T15 | 2R 5T15 | | .45 | .27 |
| .0002 | 5R 5T2 | 2R 5T2 | | .45 | .27 |
| .00025 | 5R 5T25 | 2R 5T25 | | .45 | .27 |
| .0003 | 5R 5T3 | 2R 5T3 | | .55 | .33 |
| .0004 | 5R 5T4 | 2R 5T4 | | .65 | .39 |
| .0005 | 5R 5T5 | 2R 5T5 | | .70 | .42 |
| .0007 | | 2R 5T7 | | .85 | .51 |
| .0008 | | 2R 5T8 | | .95 | .57 |
| .0009 | | 2R 5T9 | | 1.00 | .60 |
| .001 | | 2R 5D1 | 1R 5D1 | 1.10 | .66 |
| .0015 | | | 1R 5D15 | 1.35 | .81 |
| .002 | | | 1R 5D2 | 1.35 | .81 |
| .0025 | | | 1R 5D25 | 1.80 | 1.08 |
| .003 | | | 1R 5D3 | 2.05 | 1.23 |
| .004 | | | 1DR 5D4 | 2.15 | 1.29 |
| .005 | | | 1DR 5D5 | 2.25 | 1.35 |

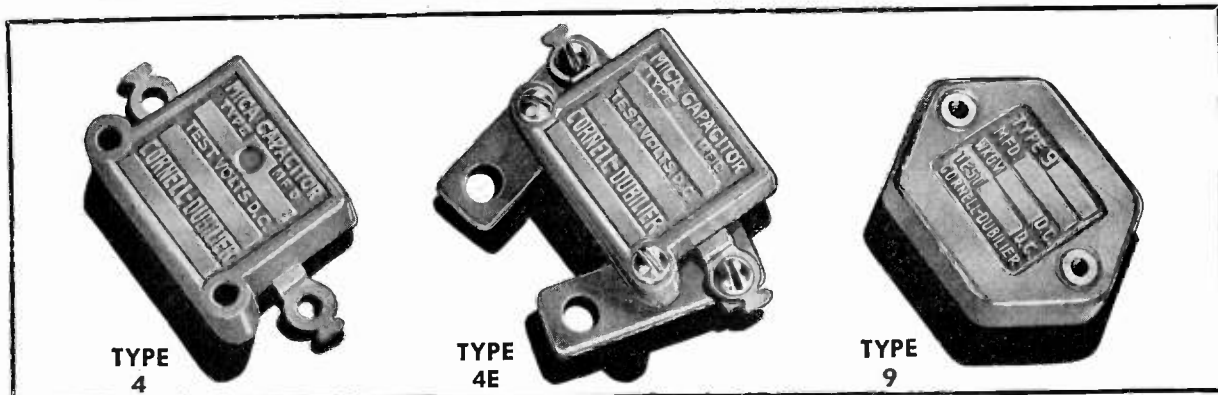
Notes On Ordering Special Units

The listing above gives range of capacities which are available from stock. Intermediate capacities, not exceeding the maximum as listed for each type, can also be furnished upon request.

Standard capacity tolerance is 5%. Also available, on special order, in tolerance ratings of plus or minus 3%, add 10% to list prices, 2% add 15% to list prices and 1% add 25% to list prices, (or within 1 mmfd.—whichever is greater). All types can also be supplied in plus or minus 10% and 20% tolerances at lower prices.



MOULDED MICA TRANSMITTING CAPACITORS



MOULDED BAKELITE MICA CAPACITORS

C-D Mica Capacitors Types 4 and 9 are designed to meet the requirements of power amplifiers and low-power transmitters. They are principally employed for grid and plate blocking purposes and for r. f. by-pass functions.

| TYPE 4 | | | |
|---|-----------|------------|-----------|
| Cat. No. | Cap. Mid. | List Price | Net Price |
| 1200 V. D.C. Test— 600 V. D.C. Working | | | |
| 4-14050 | .00005 | \$0.70 | \$0.42 |
| 4-13010 | .0001 | .70 | .42 |
| 4-13020 | .0002 | .70 | .42 |
| 4-13025 | .00025 | .70 | .42 |
| 4-13030 | .0003 | .70 | .42 |
| 4-13040 | .0004 | .70 | .42 |
| 4-13050 | .0005 | .70 | .42 |
| 4-12010 | .001 | .70 | .42 |
| 4-12015 | .0015 | .70 | .42 |
| 4-12020 | .002 | .80 | .48 |
| 4-12025 | .0025 | .90 | .54 |
| 4-12030 | .003 | 1.00 | .60 |
| 4-12040 | .004 | 1.00 | .60 |
| 4-12050 | .005 | 1.00 | .60 |
| 4-12060 | .006 | 1.20 | .72 |
| 4-12070 | .007 | 1.30 | .78 |
| 4-12080 | .008 | 1.40 | .84 |
| 4-11010 | .01 | 1.60 | .96 |
| 4-11015 | .015 | 1.80 | 1.08 |
| 4-11020 | .02 | 2.20 | 1.32 |
| 4-11025 | .025 | 2.65 | 1.59 |
| 4-11030 | .03 | 2.95 | 1.77 |

| TYPE 9 | | | |
|---|-----------|------------|-----------|
| Cat. No. | Cap. Mid. | List Price | Net Price |
| 1200 V. D.C. Test— 600 V. D.C. Working | | | |
| 9-14050 | .00005 | \$0.85 | \$0.51 |
| 9-13010 | .0001 | .85 | .51 |
| 9-13025 | .00025 | .85 | .51 |
| 9-13050 | .0005 | .85 | .51 |
| 9-12010 | .001 | .85 | .51 |
| 9-12020 | .002 | .90 | .54 |
| 9-12025 | .0025 | 1.00 | .60 |
| 9-12030 | .003 | 1.20 | .72 |
| 9-12040 | .004 | 1.20 | .72 |
| 9-12050 | .005 | 1.20 | .72 |
| 9-12060 | .006 | 1.40 | .84 |
| 9-12080 | .008 | 1.65 | .99 |
| 9-11010 | .01 | 1.95 | 1.17 |
| 9-11015 | .015 | 2.25 | 1.35 |
| 9-11020 | .02 | 2.60 | 1.56 |
| 9-11025 | .025 | 3.20 | 1.92 |
| 9-11030 | .03 | 3.45 | 2.07 |
| 9-11040 | .04 | 4.50 | 2.70 |
| 9-11050 | .05 | 5.35 | 3.21 |
| 9-11060 | .06 | 6.20 | 3.72 |

| TYPE 4 | | | |
|--|-----------|------------|-----------|
| Cat. No. | Cap. Mid. | List Price | Net Price |
| 2500 V. D.C. Test— 1200 V. D.C. Working | | | |
| 4-24050 | .00005 | \$1.00 | \$0.60 |
| 4-23010 | .0001 | 1.00 | .60 |
| 4-23020 | .0002 | 1.00 | .60 |
| 4-23025 | .00025 | 1.00 | .60 |
| 4-23030 | .0003 | 1.00 | .60 |
| 4-23050 | .0005 | 1.00 | .60 |
| 4-22010 | .001 | 1.25 | .75 |
| 4-22015 | .0015 | 1.60 | .96 |
| 4-22020 | .002 | 1.90 | 1.14 |
| 4-22025 | .0025 | 2.00 | 1.20 |
| 4-22030 | .003 | 2.10 | 1.26 |
| 4-22040 | .004 | 2.10 | 1.26 |
| 4-22050 | .005 | 2.40 | 1.44 |
| 4-22060 | .006 | 2.40 | 1.44 |
| 4-22080 | .008 | 3.10 | 1.86 |
| 4-21010 | .01 | 3.90 | 2.34 |

| TYPE 9 | | | |
|--|-----------|------------|-----------|
| Cat. No. | Cap. Mid. | List Price | Net Price |
| 2500 V. D.C. Test— 1200 V. D.C. Working | | | |
| 9-24050 | .00005 | \$1.00 | \$0.60 |
| 9-23010 | .0001 | 1.00 | .60 |
| 9-23025 | .00025 | 1.00 | .60 |
| 9-23050 | .0005 | 1.00 | .60 |
| 9-22010 | .001 | 1.25 | .75 |
| 9-22020 | .002 | 1.90 | 1.14 |
| 9-22025 | .0025 | 2.00 | 1.20 |
| 9-22030 | .003 | 2.20 | 1.32 |
| 9-22040 | .004 | 2.20 | 1.32 |
| 9-22050 | .005 | 2.40 | 1.44 |
| 9-22060 | .006 | 2.40 | 1.44 |
| 9-22080 | .008 | 3.10 | 1.86 |
| 9-21010 | .01 | 3.90 | 2.34 |
| 9-21015 | .015 | 4.65 | 2.79 |
| 9-21020 | .02 | 5.45 | 3.27 |
| 9-21025 | .025 | 6.10 | 3.66 |
| 9-21030 | .03 | 6.40 | 3.84 |

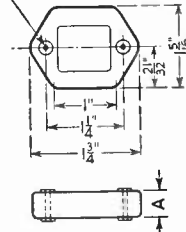
| TYPE 4 | | | |
|--|-----------|------------|-----------|
| Cat. No. | Cap. Mid. | List Price | Net Price |
| 5000 V. D.C. Test— 2500 V. D.C. Working | | | |
| 4-54050 | .00005 | \$1.25 | \$0.75 |
| 4-53010 | .0001 | 1.25 | .75 |
| 4-53020 | .0002 | 1.40 | .84 |
| 4-53025 | .00025 | 1.50 | .90 |
| 4-53030 | .0003 | 1.55 | .93 |
| 4-53050 | .0005 | 1.70 | 1.02 |
| 4-52010 | .001 | 2.05 | 1.23 |
| 4-52015 | .0015 | 2.70 | 1.62 |
| 4-52020 | .002 | 3.10 | 1.86 |
| 4-52025 | .0025 | 3.45 | 2.07 |
| 4-52030 | .003 | 3.80 | 2.28 |
| 4-52040 | .004 | 4.35 | 2.61 |
| 4-52050 | .005 | 4.70 | 2.82 |

| TYPE 9 | | | |
|--|-----------|------------|-----------|
| Cat. No. | Cap. Mid. | List Price | Net Price |
| 5000 V. D.C. Test— 2500 V. D.C. Working | | | |
| 9-54050 | .00005 | \$1.25 | \$0.75 |
| 9-53010 | .0001 | 1.25 | .75 |
| 9-53025 | .00025 | 1.50 | .90 |
| 9-53050 | .0005 | 1.70 | 1.02 |
| 9-52010 | .001 | 2.05 | 1.23 |
| 9-52020 | .002 | 3.10 | 1.86 |
| 9-52025 | .0025 | 3.45 | 2.07 |
| 9-52030 | .003 | 3.80 | 2.28 |
| 9-52040 | .004 | 4.35 | 2.61 |
| 9-52050 | .005 | 4.70 | 2.82 |
| 9-52060 | .006 | 4.85 | 2.91 |
| 9-52080 | .008 | 5.30 | 3.18 |
| 9-51010 | .01 | 5.70 | 3.42 |
| 9-51015 | .015 | 6.20 | 3.72 |

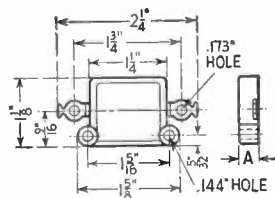
Notes on Ordering Special Capacitors

- STANDARD TOLERANCE** is plus or minus 10%. Also available on order in plus or minus 5% and 2%. For capacity tolerance of: 5% add 15c to list prices; 2% add 40c to list prices.
- "L"** MOULDED IN LOW-LOSS BAKELITE available on order. Add "L" to Cat. No. (example: 4L-22060; 9L-11010). Add 25c to list prices.
- "S"** SPECIAL SALT WATER IMMERSION SEAL AGAINST HUMIDITY. To order, add "S" to Cat. No. (example: 4S-53010; 9S-12050). Add 10c to list prices.
- "T"** HEAT AGEING TREATMENT for stabilizing capacity over extremely wide temperature changes, minus 40° C. to plus 70° C., furnished on special order. Add "T" to Cat. No. (example: 4T-12010; 9T-21020). Add 15c to list prices.
- "LST"** TO ORDER A COMBINATION OF ABOVE FEATURES, add letters specified to Cat. No. (example: 4LST-12040; 9LST-13020). Add 50c to list prices.
- INSULATION RESISTANCE**—Brown Bakelite, 20,000 megohms per unit—Low-Loss Bakelite, 40,000 megohms per unit. Low-Loss Bakelite provides higher Q and lowers the power factor.
- "4E"** SMALL METER BRACKETS (adapted for Weston Model 301 meters, add "E" to Cat. No. (example: 4E-22050). Add 20c to list prices.
- "9A"** UNTAPPED MOUNTING HOLES. Standard units are tapped for 6-32 and furnished with round head screws. For untapped mounting hole, .144" diameter (No. 6 clearance), add "A" to Cat. No. (example: 9A-11030).
- "9F"** HIGHER VOLTAGE CONSTRUCTION, rated 6,000 v.d.c. test, 3,000 v.d.c.—1500 v.a.c. operating. Capacity range limited. Moulded in low-loss Bakelite, BM 262. The thickness of these units, or "A" dimension, is 1/16" for capacities up to .002 mid. and 3/16" for capacities from .0022 to .005 mid. max. To order, add "F" to Cat. No. (example: 9F-63050, the numeral "6" designating 6,000 volts test). Prices of "9F" units are double the list prices shown.
- "9R"** HIGH STABILITY UNITS—Special high stability units, comprising low-loss Bakelite, BM 262, temperature aged and sealed construction for use as low power master oscillator tank capacitors or accessory positions. These units are fixed and permanent in characteristics, having a capacity-temperature coefficient of approximately plus .003% (30 parts per million) per degree C. To order, add "R" to Cat. No. (example: 9R-52020). Prices of 9R units are double the list prices shown.

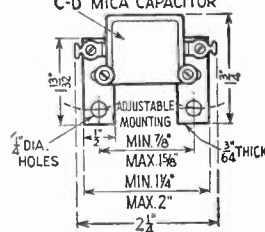
TYPE 9-6-32 THD. TAPPED HOLES
TYPE 9A-1/4" DIA. HOLES



TYPE 9
STANDARD TYPE 4
C-D MICA CAPACITOR



TYPE 4

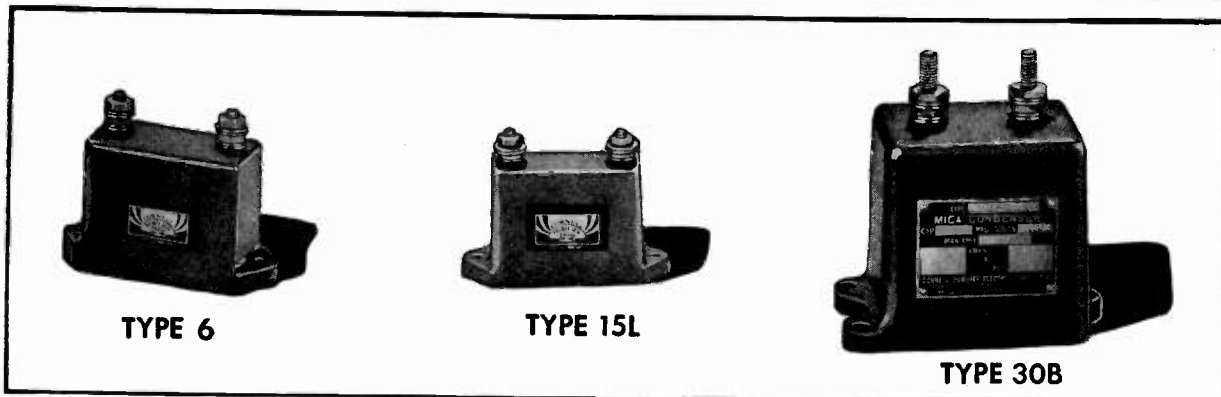


TYPE 4E

* Dimension "A" in diagram—15/16"
† Dimension "A" in Diagram—3/4"



BAKELITE CASED MICA TRANSMITTING CAPACITORS

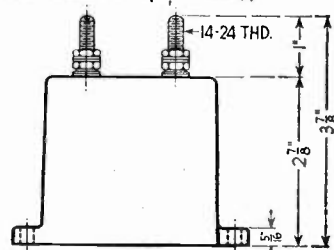
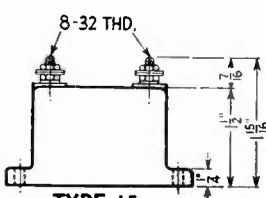
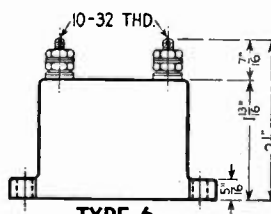
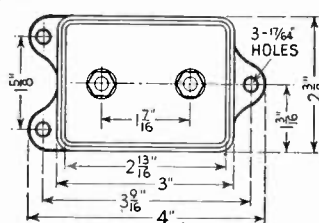
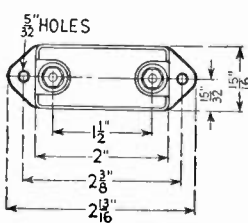
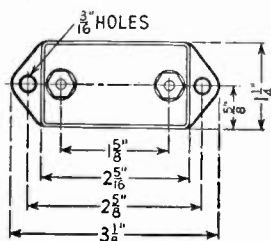


TYPE 6

TYPE 15L

TYPE 30B

BAKELITE CASED MICA CAPACITORS



TYPE 6

TYPE 15L

TYPE 30B

Types 6, 15L and 30B Mica Capacitors in moulded bakelite cases are designed for a wide variety of radio frequency applications where size and weight are at a premium, such as in aircraft, portable equipment, low-power transmitters and the earlier stages of high-power transmitters. They are specially suited for use as grid, plate, coupling, tank and by-pass functions. These units are among the smallest types employing the patented series-stack construction permitting their use on higher r.f. voltages.

Notes on Ordering Special Capacitors

Type 15L units are available only in low-loss Bakelite (BM-262 or equivalent) cases. Types 6 and 30B may be had in either standard (brown) or low-loss (yellow) Bakelite cases. When ordering low-loss units, add "L" to Cat. No. (example: 217-6L; 604-30BL). Add \$1.00 to list price for Type 6. Add \$1.50 to list price for Type 30B. **STANDARD CAPACITY TOLERANCES**—Plus or minus 5%. Tolerance of 2% can be furnished on special order. Add \$1.50 to list price for Types 6 and 15L. Add \$2.00 to list price for Type 30B. **OPERATING AMBIENT TEMPERATURE**—Up to 60° C. maximum. **SALT WATER IMMERSION SEAL**—To order, add "S" to Cat. No. (example: 246-6S; 726-15LS; 113-30BS). Add to list: \$.30 for Types 6 and 15L. Add to list: \$.50 for Type 30B. **"H" Type**—These units have been developed for use where excellent retrace and low temperature coefficient are required. Over a range of -40° C. to +70° C. the capacity temperature coefficient is approximately +.003% per degree C. A limited range of capacity and voltage ratings is available. Made only in low-loss Bakelite and sealed for immersion test. To order, add "H" to Cat. No. (example: 6H, 15H, 30BH). Add to list: \$4.00 for Type 6. Add to list: \$2.00 for Type 15L. Add to list: \$5.00 for Type 30B.

TYPE 6K—This unit is a still further refinement being a compensated unit which can be made with a positive, zero or negative coefficient within the limits of +.003% to -.005% per degree C. over a temperature range of from -40° C. to +70° C. Type 6K is available in a limited range of low capacities and voltage ratings. "K" Type includes low-loss Bakelite and immersion seal. When ordering Type 6K, temperature coefficient must be specified. (Type 6 only) Add to list Price: for plus or minus 5%—\$12.00; for plus or minus 3%—\$13.00; for plus or minus 2%—\$14.00; for plus or minus 1%—\$18.00.

TYPE 6 BAKELITE CASED MICA UNITS

| Cat. No. | Cap. Mid. | Test. Volt. Effective | Max. Oper. Cur. in Amps. | | | | List Price | Net Price |
|----------|-----------|-----------------------|--------------------------|----------|---------|---------|------------|-----------|
| | | | 3000 kc. | 1000 kc. | 300 kc. | 100 kc. | | |
| 390-6 | .00005 | 5,000 | 1.5 | .8 | .2 | .07 | \$14.40 | \$8.64 |
| 362-6 | .0000625 | 5,000 | 1.8 | .8 | .2 | .07 | 14.40 | 8.64 |
| 321-6 | .0001 | 5,000 | 2 | 1 | .3 | .1 | 14.40 | 8.64 |
| 395-6 | .00015 | 5,000 | 3 | 1.5 | .5 | .16 | 14.40 | 8.64 |
| 307-6 | .0002 | 5,000 | 3.5 | 1.7 | .7 | .18 | 14.40 | 8.64 |
| 364-6 | .00025 | 5,000 | 5 | 2.5 | 1 | .3 | 14.40 | 8.64 |
| 294A-6 | .0003 | 5,000 | 3.5 | 2 | .8 | .4 | 14.40 | 8.64 |
| 283-6 | .0004 | 5,000 | 4 | 2.5 | 1 | .5 | 14.40 | 8.64 |
| 272-6 | .0005 | 5,000 | 4 | 2 | 1.4 | .8 | 14.40 | 8.64 |
| 266-6 | .0006 | 5,000 | 5 | 3 | 1.6 | .8 | 14.40 | 8.64 |
| 654-6 | .00075 | 5,000 | 5 | 3.5 | 2 | 1 | 14.40 | 8.64 |
| 599-6 | .0008 | 5,000 | 6 | 4 | 2 | 1 | 14.40 | 8.64 |
| 246-6 | .001 | 5,000 | 7 | 4 | 2 | 1 | 14.40 | 8.64 |
| 234-6 | .0015 | 5,000 | 9 | 5 | 3 | 1.5 | 14.40 | 8.64 |
| 215-6 | .002 | 3,000 | 6 | 3 | 1.5 | .8 | 14.40 | 8.64 |
| 217-6 | .002 | 6,000 | 9 | 6 | 4 | 2 | 14.40 | 8.64 |
| 473-6 | .0025 | 5,000 | 9 | 6 | 4 | 2 | 14.40 | 8.64 |
| 197-6 | .003 | 3,000 | 8 | 6 | 4 | 2 | 14.40 | 8.64 |
| 184-6 | .004 | 3,000 | 8 | 6 | 5 | 2 | 14.40 | 8.64 |
| 173-6 | .005 | 2,000 | 8 | 5 | 3 | 1.5 | 14.40 | 8.64 |
| 474-6 | .005 | 3,000 | 9 | 6.5 | 4 | 2 | 14.40 | 8.64 |
| 565-6 | .0075 | 2,000 | 10 | 8 | 5 | 3 | 14.40 | 8.64 |
| 476-6 | .008 | 2,000 | 11 | 9 | 7 | 3 | 14.40 | 8.64 |
| 162-6 | .008 | 3,000 | 10 | 8 | 5 | 3 | 14.40 | 8.64 |
| 151-6 | .01 | 2,000 | 10 | 8 | 5 | 3.5 | 14.40 | 8.64 |
| 140-6 | .015 | 1,500 | 12 | 10 | 7 | 4 | 13.00 | 7.80 |
| 784-6 | .015 | 2,000 | 12 | 12 | 8 | 4 | 14.40 | 8.64 |
| 131-6 | .02 | 2,000 | 12 | 11 | 10 | 7 | 16.00 | 9.60 |
| 479-6 | .03 | 2,000 | 14 | 20 | 15 | 7 | 16.00 | 9.60 |
| 480-6 | .04 | 1,500 | 12 | 13 | 11 | 6 | 14.40 | 8.64 |
| 118-6 | .05 | 1,500 | 13 | 15 | 12 | 7 | 14.50 | 8.70 |
| 111-6 | .1 | 500 | 17 | 20 | 15 | 8 | 16.50 | 9.90 |
| 406-6 | .1 | 1,000 | 18 | 20 | 15 | 8 | 14.40 | 8.64 |
| 110-6 | .1-1 | 250 | 20 | 20 | 15 | 10 | 14.40 | 8.64 |
| 105-6 | .2 | 250 | 18 | 20 | 16 | 12 | 22.00 | 13.20 |
| 885-6 | .25 | 250 | 18 | 20 | 16 | 12 | 24.00 | 14.40 |

(Types 15L and 30B listed on next Page)

CORNELL



DUBILIER

BAKELITE CASED MICA TRANSMITTING CAPACITORS

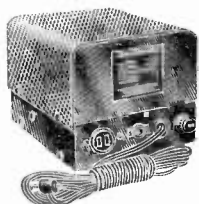
(Continued from preceding page)

TYPE 15L BAKELITE CASED MICA UNITS

| Cat. No. | Cap. Mfd. | Test. Volt. Effective | Max. Oper. Cur. in Amps. | | | | List Price | Net Price |
|----------|-----------|-----------------------|--------------------------|----------|---------|---------|------------|-----------|
| | | | 3000 kc. | 1000 kc. | 300 kc. | 100 kc. | | |
| 639-15L | .00005 | 3,000 | 1.2 | .6 | .15 | .05 | \$10.80 | \$6.48 |
| 583-15L | .0001 | 3,000 | 2.2 | .8 | .3 | .1 | 10.80 | 6.48 |
| 657-15L | .00015 | 3,000 | 2.3 | 1 | .45 | .15 | 10.80 | 6.48 |
| 582-15L | .0002 | 3,000 | 3 | 1.2 | .6 | .2 | 10.80 | 6.48 |
| 805-15L | .00025 | 3,000 | 3 | 2.5 | 1 | .4 | 10.80 | 6.48 |
| 640-15L | .0003 | 3,000 | 3.5 | 2 | .8 | .45 | 10.80 | 6.48 |
| 641-15L | .0004 | 3,000 | 4 | 2 | .9 | .5 | 10.80 | 6.48 |
| 642-15L | .0005 | 3,000 | 4 | 2 | 1 | .55 | 10.80 | 6.48 |
| 643-15L | .0006 | 3,000 | 4.5 | 2 | 1.2 | .6 | 10.80 | 6.48 |
| 727-15L | .0008 | 3,000 | 4.5 | 2.5 | 1.5 | .7 | 10.80 | 6.48 |
| 581-15L | .001 | 3,000 | 5 | 3 | 1.6 | .8 | 10.80 | 6.48 |
| 679-15L | .0015 | 3,000 | 6 | 3.5 | 2 | 1 | 10.80 | 6.48 |
| 726-15L | .002 | 3,000 | 6.5 | 4 | 2.5 | 1.5 | 10.80 | 6.48 |
| 645-15L | .003 | 2,000 | 7.5 | 5 | 3 | 1.5 | 10.80 | 6.48 |
| 699-15L | .004 | 2,000 | 8 | 6 | 3.5 | 1.6 | 10.80 | 6.48 |
| 725-15L | .005 | 2,000 | 8.5 | 6.5 | 4 | 2 | 10.80 | 6.48 |
| 580-15L | .006 | 2,000 | 9 | 7.5 | 4.5 | 2.2 | 10.80 | 6.48 |
| 724-15L | .008 | 1,500 | 10 | 8 | 5 | 2.3 | 10.80 | 6.48 |
| 677-15L | .01 | 1,000 | 10 | 8 | 5 | 2.5 | 10.80 | 6.48 |
| 723-15L | .02 | 1,000 | 11 | 10 | 7 | 3 | 11.50 | 6.90 |
| 722-15L | .05 | 500 | 11 | 10 | 8 | 5 | 10.80 | 6.48 |
| 721-15L | .1 | 250 | 11 | 12 | 10 | 6 | 12.00 | 7.20 |

TYPE 30B BAKELITE CASED MICA UNITS

| Cat. No. | Cap. Mfd. | Test. Volt. Effective | Max. Oper. Cur. in Amps. | | | | List Price | Net Price |
|----------|-----------|-----------------------|--------------------------|--------------------|---------|---------|------------|-----------|
| | | | 3000 kc. | 1000 kc. | 300 kc. | 100 kc. | | |
| 533-30B | .0001 | 4,000 | (20 Amps. at 60 mc.) | (3 Amps. at 4 mc.) | | \$30.00 | \$18.00 | |
| 958-30B | .00025 | 8,000 | 7 | 4.5 | 1.5 | 30.00 | 18.00 | |
| 959-30B | .0005 | 8,000 | 8.5 | 6 | 3 | 30.00 | 18.00 | |
| 960-30B | .001 | 8,000 | 10 | 8.5 | 4.5 | 34.00 | 20.40 | |
| 961-30B | .002 | 8,000 | 11 | 11 | 7.5 | 34.00 | 20.40 | |
| 759-30B | .003 | 8,000 | 12 | 14 | 10 | 36.00 | 21.60 | |
| 757-30B | .004 | 8,000 | 12 | 14 | 10 | 38.00 | 22.80 | |
| 758-30B | .005 | 8,000 | 13 | 15 | 11 | 42.00 | 25.20 | |
| 756-30B | .006 | 6,000 | 15 | 15 | 11 | 42.00 | 25.20 | |
| 962-30B | .01 | 5,000 | 16 | 20 | 15 | 45.00 | 27.00 | |
| 915-30B | .01 | 8,000 | 16 | 20 | 15 | 48.00 | 28.80 | |
| 963-30B | .02 | 5,000 | 18 | 20 | 17 | 48.00 | 28.80 | |
| 741-30B | .03 | 4,000 | 20 | 20 | 18 | 48.00 | 28.80 | |
| 771-30B | .05 | 2,000 | 18 | 25 | 22 | 54.00 | 32.40 | |
| 964-30B | .05 | 4,000 | 18 | 25 | 22 | 54.00 | 32.40 | |
| 113-30B | .1 | 2,000 | 18 | 25 | 22 | 42.00 | 25.20 | |
| 603-30B | .1 | 600 | 18 | 25 | 22 | 34.00 | 20.40 | |
| 750-30B | .25 | 600 | 18 | 25 | 22 | 38.00 | 22.80 | |
| 933-30B | .3 | 600 | 18 | 25 | 22 | 38.00 | 22.80 | |
| 604-30B | .5 | 600 | 18 | 25 | 22 | 46.00 | 27.60 | |
| 898-30B | 1.0 | 600 | 18 | 25 | 22 | 72.00 | 43.20 | |



TYPE 110R10

CORNELL-DUBILIER POWERCON VIBRATOR CONVERTERS

Think of the new sales opportunities open to you now that you have the dependable name of C-D in back of a complete line of converters. More TV installations! More work on farm power supplies! Marine work! And always you work with confidence in the quality, dependability and trouble-free performance of these converters, because they're typical C-D products.



TYPE 110RT25

110 Volts AC From A Battery Source

| Model & Accessories | Input Voltage | Output Ratings | Dimensions L. x W. x D. (Inches) | Weight Lbs. | C-D Type Vibrator | List Price | Net Price |
|---------------------|---------------|--|----------------------------------|-------------|--------------------|------------|-----------|
| 6R5 + | 6V DC | 110V AC 60-cycle 50-watt 80-100 P.F. | 6¾ x 7¾ x 5¾ | 12 | 3103 H-D Single | \$41.95 | \$25.17 |
| 6R10 ** | 6V DC | 110V AC 60-cycle 100-watt 80-100 P.F. | 7 x 12½ x 7½ | 19 | 4123 H-D Tandem | 59.50 | 35.70 |
| 12R8 + | 12V DC | 110V AC 60-cycle 80-watt 80-100 P.F. | 6¾ x 7¾ x 5¾ | 12 | 3087 H-D Single | 41.95 | 25.17 |
| 12RU15 ** | 12V DC | 110V AC 60-cycle 150-watt 60-100 P.F. | 7 x 12½ x 7½ | 22 | 3047 H-D Tandem | 78.95 | 47.37 |
| 32R8 + | 32V DC | 110V AC 60-cycle 80-watt 80-100 P.F. | 6¾ x 7¾ x 5¾ | 13¼ | 2989 H-D Single | 48.50 | 29.10 |
| 32RU15 ** † | 32V DC | 110V AC 60-cycle 150-watt 60-100 P.F. | 6¾ x 12¾ x 7½ | 22¼ | 2989 H-D Single | 73.50 | 44.10 |

110 Volts AC From A 110-Volt DC Line

| | | | | | | | |
|-------------|---------|--|---------------|-----|---------------------|--------|-------|
| 110PA5 | 110V DC | 110V AC 60-cycle 50 VA 50-100 P.F. | 3¾ x 6¼ x 2¾ | 2 | 2522 Auto-type | 14.95 | 8.97 |
| 110PB5 | 110V DC | 110V AC 60-cycle 50 VA 50-100 P.F. | 3¾ x 6¼ x 2¾ | 2 | 2522 Auto-type | 16.95 | 10.17 |
| 110R10 | 110V DC | 110V AC 60-cycle 100-watt 80-100 P.F. | 6¾ x 7¾ x 5¾ | 10½ | 1315 H-D Single | 39.95 | 23.97 |
| 110R15 † | 110V DC | 110V AC 60-cycle 150-watt 80-100 P.F. | 6¼ x 12¼ x 7½ | 15 | 1315 H-D Single | 66.95 | 40.17 |
| 110RA15 | 110V DC | 110V AC 60-cycle 150-watt 80-100 P.F. | 6¾ x 7¾ x 5¾ | 13½ | 1315 H-D Single | 48.75 | 29.25 |
| 110RT25 X * | 110V DC | 110V AC 60-cycle 250-watt 80-100 P.F. | 6½ x 12¾ x 8½ | 22½ | 3077V H-D Single | 69.95 | 41.97 |
| 110RT35 † | 110V DC | 110V AC 60-cycle 350-watt 80-100 P.F. | 7½ x 14 x 8¾ | 40½ | 3079 H-D Tandem | 119.50 | 71.70 |

Battery Eliminators Using 110-Volt AC Power

| | | | | | | | |
|---------|---------|---|---------------|-----|------|-------|-------|
| 110BA6 | 110V AC | 6V DC 10 Amp. 60-W | 7¾ x 12¼ x 8½ | 16 | None | 54.95 | 32.97 |
| 110BA12 | 110V AC | 12V DC 10 Amp. 120-W 6V DC 20 Amp. 120-W | 7¾ x 13 x 8½ | 24½ | None | 85.50 | 51.30 |

Accessories For Converters

| | | | | |
|---------|------------------------------|-------------------------------|-------|------|
| * 3155 | Separate Auto-switching Unit | Install within Model 110RT25 | 14.50 | 8.70 |
| + 3164 | Mobile Mounting Brackets | Use with 6R5, 12R8, 32R8 | 1.95 | 1.17 |
| ** 3165 | Mobile Mounting Brackets | Use with 6R10, 12RU15, 32RU15 | 1.95 | 1.17 |

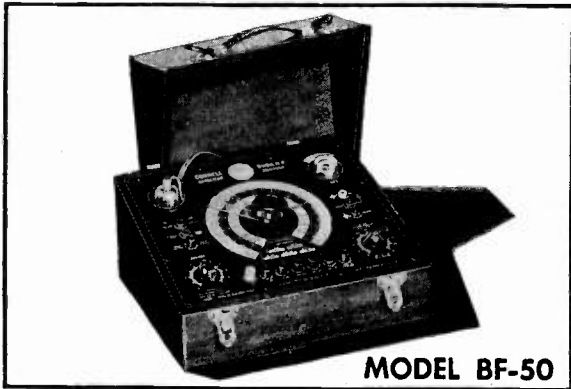
† Denotes automatic switching unit built into converter.

X Denotes converter supplied with adjustable frequency vibrator for television.

NOTE: On Model 110RT25, Type 1315 Standard Vibrator may be used in place of 3077-V Adjustable Vibrator where exact 60 cycle is not required.



CAPACITOR TEST INSTRUMENTS



MODEL BF-50

CAPACITOR ANALYZER

The Model BF-50 Capacitor Analyzer quickly and accurately measures all important characteristics of all types of capacitors. It offers the most accurate and thorough capacitor test of any instrument of its type, and may be operated on any 110-volt, 50-60 cycle power line.

The analyzer will determine the true condition of all paper, mica and electrolytic capacitors, including A.C. motor starting types.

Features of Model BF-50 Analyzer

1. Measures Capacity—Accurately measures capacity of paper, mica, air, electrolytic and motor-starting capacitors from .00001 to 240 mfd.
2. Measures Power Factor—Measurements of power factor from zero to 50 percent on all types of electrolytic capacitors including motor-starting types.
3. Employs Wien Bridge—Assures permanent accuracy of capacity and power factor measurements. Readings not affected by line voltage variations.
4. Indicates Insulation Resistance—Insulation resistance measurements of paper and mica capacitors up to 1500 megohms. Also measures many types of insulation.
5. Indicates Leakage—Measurements of leakage of electrolytic capacitors by means of built-in direct current power supply.
6. Visual Eye Leakage Indicator—Provides simplified and reliable leakage tests on all types of capacitors. Enables measurements to be made rapidly.
7. Detects Defective Capacitors—Character measurements, such as leaky, shorted, open, high and low capacity, and high power factor on all capacitors.
8. High Sensitivity on All Measurements—Amplifier for capacity, power factor and leakage tests provides sharp and accurate readings. Amplifier built-in Analyzer.
9. Balance Sensitivity Control—Provides sharp or broad balances for quick and accurate readings. All readings are made simply and directly.
10. Direct Reading Linear Scale Calibration—Provides simplified measurements. All scales on panel uniformly spaced, easy to read, thus avoiding possible errors in using multipliers or charts.
11. Push-Button Switching—For convenient and simplified adjustments, all tests and circuit changes are made by means of modern push-button switches.
12. Visual Eye Bridge Balance—Visual detector gives positive indication of bridge balance for convenient, simplified and accurate capacity and power factor measurements.
13. Six Color-Coded Scales—Accurately calibrated, six color-coded scales. Uniformly spaced over total spacing of sixty inches. Easy to read. No "blind" spots.
14. General Purpose Instrument—May be used to check continuity capacity between circuits, insulation of transformer windings and other types of coils, etc.
15. Self-Contained—Portable—An instrument complete in itself, requiring no external standard, headphones, meters or accessories. A portable unit, for 110 volt, 50-60 cycle operation, supplied in walnut cabinet, removable cover, with carrying handle. Size, 6½ x 12 x 9¾ inches. Weight, 9 pounds.

MODEL BF-50 CAPACITOR ANALYZER

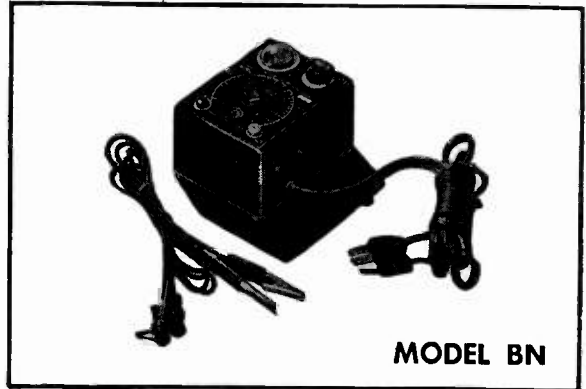
Net Price complete with tubes.....

\$42.65

Replacement Tubes for Use in Model BF-50:

6E5—List Price \$1.80—Net Price \$1.08

12A7—List Price \$2.65—Net Price \$1.59



MODEL BN

CAPACITOR BRIDGE

Features of Model BN Capacitor Bridge

1. Measures Capacity—Accurately measures capacity of paper mica electrolytic and air capacitors from .00001 mfd. to 50 mfd.
2. Indicates Power Factor—Power factor of electrolytic capacitor indicated by means of visual eye detector tube.
3. Detects Defective Capacitors—Detects open and short circuits, high and low capacity, and high power factor.
4. Checks Circuit Continuity—May be used as continuity meter. A handy instrument for checking circuits, coils, transformers and many other uses. For operation on 110 volts, 60 cycles.
5. Employs Wien Bridge—Employs Wien Bridge circuit for all measurements. Accuracy independent of line voltage variations.
6. Visual Eye Bridge Balance—Dual type visual bridge balance for accurate measurements facilitates quick tests on service jobs.
7. Direct Reading Scale—Direct reading ranges with all scale markings directly in microlarads. Clear reading dial scale. All capacity calibrations marked on panel. No charts or multipliers required.
8. Self-Contained—The Capacitor Bridge is complete in itself and requires no headphones, standards, external meters, etc.
9. Extremely Compact—The unusually small size of this bridge makes it particularly handy for portable use—3¾" x 5" x 3" weight 12 pounds.
10. Attractive—Supplied in attractive walnut Bakelite case complete with detachable test leads and useful instruction booklet.

MODEL BN CAPACITOR BRIDGE

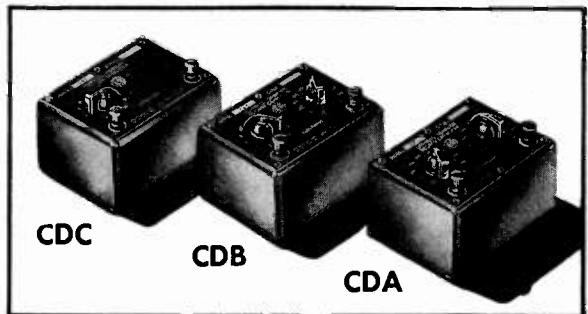
Net Price complete with tubes.....

\$20.35

Replacement tubes for use in Model BN Bridge:

6AF6G—List Price \$2.20—Net Price \$1.32

12A7—List Price \$2.65—Net Price \$1.59



CDC

CDB

CDA

CAPACITOR DECADES

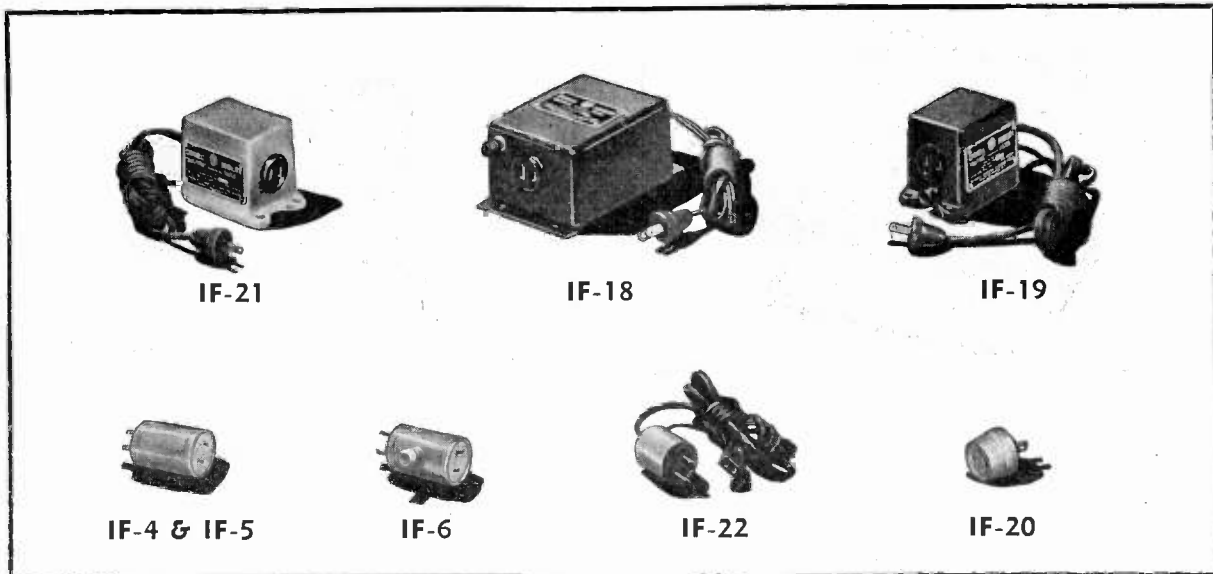
C-D Capacitor Decades provide accurate standards over a wide range of capacity. May be used in groups of the three decades, shown above, or used individually for maximum flexibility. Each decade is furnished with calibration chart giving exact capacity values for all scale markings, extending use to more precise measurements.

Rated Voltage—600 D.C.—220 A.C.

| Model | Capacity | | + or Tol. | Dielectric | Net Price |
|-------|--------------|------------------|-----------|------------|-----------|
| CDA-5 | .011 mfd. in | .0001 mfd. steps | 5% | Mica | \$8.50 |
| CDB-5 | 1.1 mfd. in | .01 mfd. steps | 3% | Oil-Paper | 8.50 |
| CDB-3 | 1.1 mfd. in | .01 mfd. steps | 3% | Oil-Paper | 12.00 |
| CDC-5 | 10.0 mfd. in | 1.0 mfd. steps | 5% | Oil-Paper | 17.50 |
| CDC-3 | 10.0 mfd. in | 1.0 mfd. steps | 3% | Oil-Paper | 19.50 |



QUIETONE INTERFERENCE FILTERS



RADIO AND APPLIANCE QUIETONES

Most satisfactory results are obtained when Quietones are installed at the source of the interference. A Quietone installed in connection with an offending appliance corrects the noise caused by that appliance.

Where source of interference cannot be located a Quietone connected in the electric supply line of the radio receiver will alleviate, if not fully correct, the condition. When a Quietone is installed, interference will be greatly reduced. Remaining interference usually enters receiver through the antenna system.

Quietones for Use at the Radio Receiver

TYPE IF-4—For use on small radio receivers, such as A.C.-D.C. midget sets, etc., where noise level is not too severe. Connects in power line between the radio receiver plug and wall receptacle. Rating: 110 V.A.C.-D.C. 5 amps. Colors—Furnished in ivory, walnut, or green finish.

List Price \$1.10 Net Price \$0.66

TYPE IF-18—For use in connection with all radio receivers where noise level is severe. Furnished in Bakelite case (see colors). Employs highly effective all-wave capacitive-inductive type filter. Ratings: 110 V.A.C.-D.C. 5 amps. Colors—Furnished in ivory or walnut Bakelite.

List Price \$8.35 Net Price \$5.01

Quietones for Use at Appliances

TYPE IF-5—For small electrical appliances such as food mixers, hair dryers, etc., where radio interference is of low intensity. Plug type filter. Convenient to install. Rating 110 V.A.C.-D.C. 5 amps. Colors—Furnished in ivory, walnut or green finish.

List Price \$1.10 Net Price \$0.66

TYPE IF-6—For all types of home electrical appliances where interference is of moderately low intensity. Installed between appliance and power supply line with short return lead which reduces radiation. Rating: 110 V.A.C.-D.C. 5 amps. Colors—Furnished in ivory, walnut or green finish.

List Price \$1.75 Net Price \$1.05

TYPE IF-18—An efficient all-wave capacitive-inductive sectional band type filter for use in connection with all types of electrical appliances where interference conditions are severe. Provided with frame connection for reduction of radiation. Furnished in Bakelite case (see colors). Rating: 110 V.A.C.-D.C. 5 amps. Colors—Bakelite case, walnut finished.

List Price \$8.35 Net Price \$5.01

TYPE IF-19—Capacitive-inductive type filter for use where interference is severe. Frame connection provided. Furnished in Bakelite case. Rating: 110 V.A.C.-D.C. 5 amps. Colors—Bakelite case. Ivory or walnut finish.

List Price \$7.00 Net Price \$4.20

TYPE IF-20—For use on small electrical appliances where interference is very low. Simply connected to cord plug of appliance and plugged into wall receptacle. Rating: 110 V.A.C.-D.C. 5 amps. Colors—Bakelite case. Ivory or walnut finish.

List Price \$0.75 Net Price \$0.45

TYPE IF-21—All-wave capacitive-inductive type filter for use on appliances where return lead to the frame of appliance cannot be made, such as shaver, barber clippers, etc. Furnished in Bakelite case. Rating: 110 V.A.C.-D.C. 1.6 amps. Colors—Bakelite case. Ivory or walnut finish.

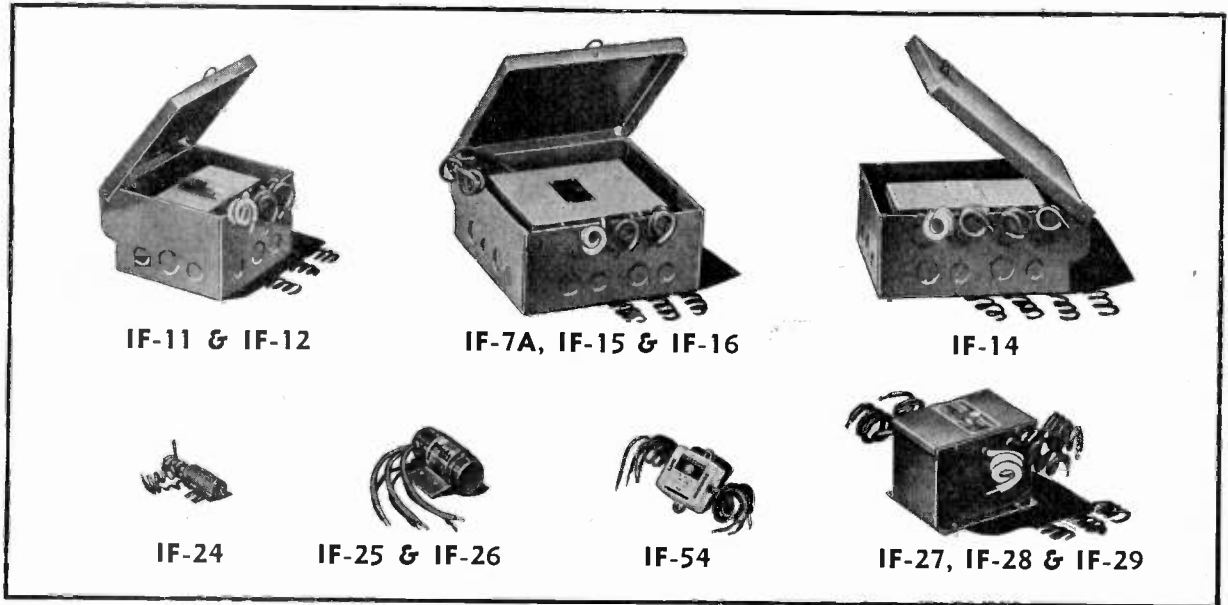
List Price \$4.00 Net Price \$2.40

TYPE IF-22—For use in connection with electric shavers of all standard types. Line cord and plug provided with Schick and Packard type adapters which fit practically all type shavers. (Specify type desired when ordering.) Type IF-22A for Schick, Knapp Monarch, and similar type shavers. Type IF-22B for Packard, Zephyr, Remington-Rand and Ronson type shavers. Rating: 110 V.A.C. 5 amps. Colors—Bakelite case. Ivory or black finish.

List Price \$2.75 Net Price \$1.65



QUIETONE INTERFERENCE FILTERS



IF-11 & IF-12

IF-7A, IF-15 & IF-16

IF-14

IF-24

IF-25 & IF-26

IF-54

IF-27, IF-28 & IF-29

INDUSTRIAL QUIETONES

Although atmospheric disturbances in many instances cause radio noises, this condition is not the principal source of annoying noises. With the average radio receiver, noise is generally caused by the operation of electrical appliances or apparatus which create high frequency oscillations known as "man-made static". Many types of equipment cause minute sparks as a result of a change in electrical conditions within the device, which are essential to its operation. In effect these appliances act as miniature radio transmitters, setting up a disturbance which may affect radio receivers at a considerable distance.

It is highly desirable to correct noise conditions at the source as one filter properly installed at this point may eliminate the noise in a number of radio receivers. Where it is impossible to locate the equipment which is causing the interference a Quietone installed at the receiver will correct the noise in that receiver.

The Quietones listed below will correct radio noise conditions caused by motors, generators, elevators, stokers and many other types of industrial electrical apparatus. They are designed for convenient mounting, and contain highest quality capacitors, with lowest possible impedance internal connections. There are no current limitations for (CP) Capacitive Quietones.

Fluorescent Light Quietones

Among the Quietone Interference Filters especially suited to correct noise conditions caused at fluorescent lights, as well as other electrical appliances, are types IF-6, IF-24 and IF-54, the former being a very convenient plug-in arrangement that fits the receptacles of floor and table lamps.

Type IF-24 Quietone is a dual capacitive type filter for use on fluorescent light and other electrical equipment where noise conditions are not too severe. It is contained in a round metal casing $\frac{1}{8}$ " diameter by 2" long and provided with insulated wire leads 8" long.

Oil Burner Ignition Quietones

For heavy duty filtering service on oil burners and other equipment such as stokers, motors, refrigerators, etc., Quietone type IF-7A is recommended for efficient results. This unit is mounted close to the equipment causing the interference with wiring in BX or conduit.

Type IF-54 Quietone is a capacitive-inductive filter which provides extremely high attenuation over a wide range of frequencies. This unit is housed in a drawn metal container 2" x 2" x 1 $\frac{1}{8}$ " high, and provided with insulated wire leads 6" long. It is rated at 2 amps. 110-220 V.A.C. or D.C.

Fluorescent Light Quietones

| Type | Volts A.C.— D.C. | Connections | Housing | List Price | Net Price |
|-------|---------------------|-------------|---------|---------------|--------------|
| IF-6 | 110 | Plug-in | Metal | \$1.75 | \$1.05 |
| IF-24 | 110 | Flex-Leads | Metal | 1.10 | .66 |
| IF-54 | 110-220 | Flex-Leads | Metal | 2.25 | 1.35 |

Capacitive (CP) Quietones

| Type | Volts A.C.— D.C. | Connections | Housing | List Price | Net Price |
|---------|---------------------|-------------|------------|---------------|--------------|
| IF-25 | 110-220 | Flex-Leads | Metal | \$4.50 | \$2.70 |
| IF-26 | 110-220 | Flex-Leads | Metal | 6.00 | 3.60 |
| IF-11 | 110 | BX | Cutout Box | 12.00 | 7.20 |
| IF-12 | 220 | BX | Cutout Box | 16.50 | 9.90 |
| IF-14** | 110-220 | BX | Cutout Box | 22.50 | 13.50 |

** All Quietones listed above with exception of IF-14 are for single phase circuits. IF-14 is for 2 or 3 phase circuits. The Quietones listed below are for the more severe radio noise conditions caused by motors, generators, elevators, diathermy, oil burners, etc. They are designed for convenient mounting and quick connection to these machines. They consist of low-loss coils and highest quality capacitors which correct noise conditions in both broadcast and short wave receivers. They are the most efficient filters available for heavy duty application. All capacitive-inductive (CI) Quietones are for single phase circuits.

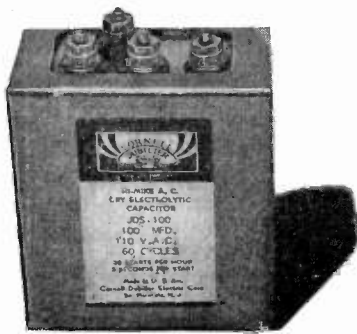
Capacitive-Inductive (CI) Quietones

| Type | Volts A.C.— D.C. | Max. Amps. | Connections | Housing | List Price | Net Price |
|--------|---------------------|---------------|-------------|------------|---------------|--------------|
| IF-7A* | 110-220 | 5 | BX | Cutout Box | \$12.50 | \$7.50 |
| IF-15 | 110-220 | 10 | BX | Cutout Box | 25.00 | 15.00 |
| IF-16 | 110-220 | 20 | BX | Cutout Box | 35.00 | 21.00 |
| IF-27 | 110 | 5 | Flex-Leads | Steel Box | 7.00 | 4.20 |
| IF-28 | 110 | 10 | Flex-Leads | Steel Box | 12.50 | 7.50 |
| IF-29 | 110 | 20 | Flex-Leads | Steel Box | 22.00 | 13.20 |

* For use on oil burners.



A. C. MOTOR STARTING CAPACITORS



TYPE JDS



TYPE ETB



TYPE ETBCB

A.C. MOTOR STARTING REPLACEMENT CAPACITORS

Types ETB and JDS Electrolytic Motor-Starting Capacitors are universal replacement units for use in standard makes of oil-burners, refrigerators and other motor driven equipment. The list of units below simplifies the selection of the capacitor required when the capacity, voltage rating, and size are known.

In many cases where a round can-type unit is to be replaced a smaller size capacitor of the same capacity and voltage rating may be selected as a replacement. The smaller size unit may be wrapped tightly with ordinary corrugated paper and fitted into the capacitor housing on the motor. While only the most widely used range of capacities are listed below, Type ETB 110 V.A.C. capacitors can be supplied in intermediate capacities from 10 mfd. to 480 mfd.

Write for complete A.C. Motor Starting Replacement Capacitors, Catalog No. 163.

TYPE JDS—110 VOLTS A.C. 50-60 CYCLES

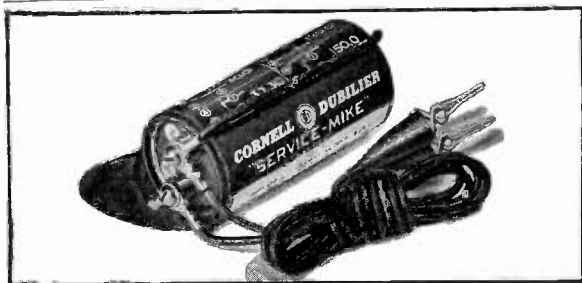
| Cat. No. | Cap. Mfd. | Dimensions—Ins. L. x W. x T. | List Price | Net Price |
|----------|-----------|---------------------------------|------------|-----------|
| JDS70 | 70 | 3 1/2 x 3 1/2 x 2 | \$3.20 | \$1.92 |
| JDS80 | 80 | 3 1/2 x 3 1/2 x 2 | 3.20 | 1.92 |
| JDS90 | 90 | 3 1/2 x 3 1/2 x 2 | 3.20 | 1.92 |
| JDS100 | 100 | 3 1/2 x 3 1/2 x 2 | 3.34 | 2.00 |
| JDS115 | 115 | 3 1/2 x 3 1/2 x 2 | 3.79 | 2.27 |
| JDS130 | 130 | 3 1/2 x 3 1/2 x 2 | 3.79 | 2.27 |

Type ETB and JDS units are furnished with tightly fitted insulating tube or paper box casings with screw terminals. Type ETB units are available with black lacquered steel end caps, designated as Type ETBC, or with both end caps and black lacquered steel mounting bracket designated as Type ETBCB (see illustration above). Units must be designated accordingly upon ordering. (See note below.)

TYPE ETB—110 VOLTS A.C. 50-60 CYCLES

| Cat. No. | Cap. Mfd. Min.—Max. | Dimensions—Ins. Dia. x Lgth. | List Price | Net Price |
|----------|------------------------|---------------------------------|------------|-----------|
| ETB-20 | 20-24 | 1 1/2 x 2 3/8 | \$1.70 | \$1.02 |
| ETB-35 | 32-36 | 1 3/8 x 2 3/8 | 1.82 | 1.09 |
| ETB-40 | 38-46 | 1 3/8 x 2 3/8 | 1.82 | 1.09 |
| ETB-45 | 43-48 | 1 3/8 x 2 3/8 | 1.82 | 1.09 |
| ETB-55 | 53-60 | 1 3/8 x 2 3/8 | 1.89 | 1.13 |
| ETB-70 | 64-72 | 1 3/8 x 2 3/8 | 1.89 | 1.13 |
| ETB-80 | 75-84 | 1 3/8 x 3 1/8 | 2.02 | 1.21 |
| ETB-90 | 86-96 | 1 3/8 x 3 1/8 | 2.08 | 1.25 |
| ETB-100 | 97-107 | 1 3/8 x 3 1/8 | 2.14 | 1.28 |
| ETB-110 | 107-129 | 1 3/8 x 3 1/8 | 2.14 | 1.28 |
| ETB-115 | 108-120 | 1 3/8 x 3 1/8 | 2.14 | 1.28 |
| ETB-130 | 124-138 | 1 3/8 x 3 1/8 | 2.27 | 1.36 |
| ETB-145 | 130-157 | 1 3/8 x 4 1/8 | 2.52 | 1.51 |
| ETB-155 | 145-162 | 1 3/8 x 4 1/8 | 2.78 | 1.67 |
| ETB-175 | 161-180 | 1 3/8 x 4 1/8 | 3.03 | 1.82 |
| ETB-200 | 189-210 | 1 3/8 x 4 1/8 | 3.59 | 2.15 |
| ETB-215 | 190-240 | 1 3/8 x 3 1/8 | 4.11 | 2.47 |
| ETB-225 | 216-240 | 1 3/4 x 4 1/8 | 4.11 | 2.47 |
| ETB-340 | 324-360 | 2 x 4 1/8 | 6.06 | 3.64 |
| ETB-400 | 378-420 | 2 x 4 1/8 | 6.83 | 4.10 |
| ETB-450 | 432-480 | 2 1/2 x 4 1/8 | 7.59 | 4.55 |

NOTE—For units with metal end caps, Type ETBC, add 60c to list price. For units with metal end caps and mounting bracket, Type ETBCB, add \$1.00 to list price.



SENIOR AND JUNIOR "SERVICE MIKES"

These capacitors are designed for emergency replacements of A. C. motor starting electrolytic capacitors from 18.75 to 300 mfd. They enable the motor repair man to determine correct capacity required for a given motor and eliminate necessity of carrying stock of assorted sizes.

Each capacitor provides a range of twelve separate capacities by means of changing external connections at four terminals, two at each end. Both units are for 110-120 V.A.C. 60 cycle duty.

JUNIOR "SERVICE MIKE", 18.75 to 150 mfd., size 1 1/8" dia. x 3 3/8" long. Complete with leads, clips and jumpers. Net Price \$4.65

SENIOR "SERVICE MIKE", 37.5 to 300 mfd., size 2 1/8" dia. x 4 1/2" long. Complete with leads, clips and jumpers. Net Price \$5.50

MALLORY CAPACITORS • LIST PRICES

★ Complete descriptions of these parts will be found on the following pages.

| Mallory Cat. No. | List Price | Mallory Cat. No. | List Price | Mallory Cat. No. | List Price | Mallory Cat. No. | List Price | Mallory Cat. No. | List Price | | |
|---|------------|--|------------|--|------------|---|------------|---------------------------------|------------|---|---------|
| <i>Mallory Page 9</i> | | <i>Mallory Page 10</i> | | <i>Mallory Page 11</i> | | <i>Mallory Page 13</i> | | <i>Mallory Page 14</i> | | <i>Mallory Page 16</i> | |
| Oil Impregnated Tubular Paper Capacitors | | Disk Ceramic Capacitors | | High Voltage Ceramic Capacitors | | Heavy-Duty Appliance Noise Filters (Type LB) | | Mica Receiver Capacitors | | Transmitting Capacitors (Type TZ) | |
| OT101 | \$0.95 | DL445 | \$2.25 | DC511 | \$0.30 | LB10 | \$17.50 | MCE456 | \$1.65 | TX834 | \$28.50 |
| OT103 | 1.05 | RF480 | .80 | DC525 | .25 | LB20 | 47.50 | MCE457 | 1.65 | TX835 | 12.75 |
| OT106 | 1.10 | RF481 | .90 | | | LB40 | 58.75 | MCE460 | 2.20 | TX836 | 14.00 |
| OT110 | 1.25 | RF482 | 1.15 | | | | | MCE461 | 2.45 | TX837 | 15.50 |
| OT113 | 1.70 | CA275X | 3.00 | | | | | MCE463 | 2.60 | TX838 | 34.00 |
| OT116 | 2.20 | | | | | | | MCE465 | 2.70 | TX839 | 34.00 |
| OT301 | 1.10 | Steel Cased Oil Filled Capacitors | | Ceramic Trimmer Capacitors | | <i>Mallory Page 14</i> | | <i>Mallory Page 15</i> | | Mica Transmitting Capacitors (Type MH) | |
| OT303 | 1.20 | CB403 | \$2.25 | ST553Z | \$1.50 | MC205 | \$0.25 | MH535 | \$0.70 | TZ382 | \$4.65 |
| OT306 | 1.30 | CB404 | 2.40 | ST5515Z | 1.50 | MC215 | .25 | MH635 | 1.00 | TZ383 | 6.20 |
| OT310 | 1.50 | CB405 | 2.85 | ST554N | 1.50 | MC220 | .25 | MH735 | 1.25 | TZ384 | 4.30 |
| OT370 | 1.20 | CB406 | 3.60 | ST557N | 1.50 | MC223 | .20 | MH545 | .70 | TZ385 | 5.45 |
| OT371 | 1.20 | CB602 | 2.65 | DT553Z | 2.50 | MC225 | .20 | MH645 | 1.00 | TZ386 | 5.05 |
| OT372 | 1.20 | CB603 | 2.80 | DT5515Z | 2.50 | MC230 | .20 | MH745 | 1.70 | TZ387 | 5.45 |
| OT373 | 1.20 | | | DT554N | 2.50 | MC235 | .20 | MH555 | .70 | TZ388 | 7.25 |
| OT375 | 1.25 | | | DT557N | 2.50 | MC236 | .20 | MH655 | 1.25 | TZ389 | 7.25 |
| OT376 | 1.30 | CB604 | 3.00 | | | MC237 | .20 | MH755 | 2.05 | TZ390 | 6.85 |
| OT377 | 1.20 | CB605 | 3.40 | | | MC240 | .25 | MH567 | .80 | TZ391 | 7.60 |
| OT378 | 1.30 | CB1002 | 2.85 | | | MC241 | .25 | MH657 | 1.90 | | |
| OT379 | 1.30 | CB1003 | 2.95 | | | MC243 | .25 | MH757 | 3.10 | <i>Mallory Page 17</i> | |
| OT380 | 1.40 | CB1004 | 3.20 | | | MC245 | .25 | MH565 | 1.00 | Capacitor Tools & Hardware | |
| OT458 | 1.25 | CBD403 | 3.25 | | | MC251 | .25 | MH665 | 2.40 | 115-1 | \$0.20 |
| OT459 | 1.25 | CBD404 | 3.75 | | | MC255 | .30 | MH765 | 4.70 | 116-1 | .20 |
| OT460 | 1.25 | CBD602 | 3.35 | | | MC256 | .30 | MH575 | 1.60 | 118-1 | .20 |
| OT461 | 1.25 | | | | | | | MH675 | 3.90 | 119-1 | .20 |
| OT462 | 1.30 | CBT403 | 4.00 | | | | | MH577 | 2.20 | 121-1 | .35 |
| OT463 | 1.30 | CBT404 | 4.75 | | | | | | | 122-1 | .35 |
| OT464 | 1.35 | CBT602 | 3.80 | | | | | | | 123-1 | .35 |
| OT465 | 1.40 | | | | | | | | | 124-1 | .35 |
| OT466 | 1.40 | | | | | | | | | MP-2 | .05 |
| OT467 | 1.45 | | | | | | | | | MP-4 | .05 |
| | | | | | | | | | | MP-6 | .05 |
| | | | | | | | | | | BP-2 | .05 |
| | | | | | | | | | | BP-4 | .05 |
| | | | | | | | | | | BP-4A | .05 |
| | | | | | | | | | | BP-6 | .05 |
| | | | | | | | | | | PS-4 | .70 |
| | | | | | | | | | | PS-6 | .90 |
| | | | | | | | | | | PSC-4 | .10 |
| | | | | | | | | | | MW-100 | 1.75 |
| | | | | | | | | | | 015-1 | .05 |
| | | | | | | | | | | 015-2 | .05 |
| | | | | | | | | | | MS-1 | .05 |
| | | | | | | | | | | A-016 | .10 |
| | | | | | | | | | | A-017 | .10 |
| | | | | | | | | | | PL-3 | .20 |
| | | | | | | | | | | PL-6 | .25 |
| | | | | | | | | | | PL-8 | .30 |
| | | | | | | | | | | PLA-3 | .20 |
| | | | | | | | | | | PLA-6 | .25 |
| | | | | | | | | | | PLA-8 | .30 |
| | | | | | | | | | | HB-4 | .30 |
| | | | | | | | | | | HB-8 | .35 |
| | | | | | | | | | | TH-13 | .05 |
| | | | | | | | | | | TH-15 | .05 |
| | | | | | | | | | | TH-17 | .05 |
| | | | | | | | | | | TH-19 | .05 |
| | | | | | | | | | | TH-21 | .05 |
| | | | | | | | | | | TH-23 | .05 |
| | | | | | | | | | | TH-25 | .10 |
| | | | | | | | | | | VR-1 | .15 |
| | | | | | | | | | | VR-3 | .15 |
| | | | | | | | | | | VR-4 | .20 |
| | | | | | | | | | | VR-6 | .25 |
| | | | | | | | | | | VR-8 | .30 |
| | | | | | | | | | | VR-10 | .35 |
| | | | | | | | | | | 104-1 | .20 |
| | | | | | | | | | | OE-1 | .05 |
| | | | | | | | | | | OE-3 | .05 |
| | | | | | | | | | | OE-4 | .10 |
| | | | | | | | | | | OE-5 | .10 |
| | | | | | | | | | | OE-6 | .10 |
| | | | | | | | | | | CE-1 | .10 |
| | | | | | | | | | | CE-3 | .10 |
| | | | | | | | | | | CE-4 | .10 |
| | | | | | | | | | | CE-5 | .10 |
| | | | | | | | | | | CE-6 | .10 |

MALLORY DRY ELECTROLYTIC CAPACITORS



Metal Tubular Dry Electrolytic Capacitors Single Section

APPLICATION—For under-chassis mounting in filter and audio bypass circuits where long life and small size is desirable.

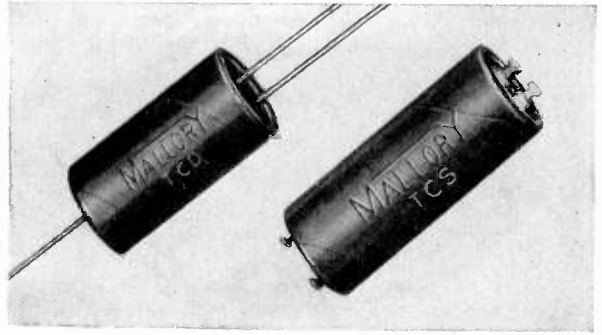
DESCRIPTION—Single section dry electrolytic type encased in hermetically sealed aluminum tube with external insulating sleeve. For extreme dependability at high voltage, types TC82 and TC92 employ the special Mallory balanced series unit construction.

TERMINALS—One 3" bare solid tinned copper lead at each end. Positive lead marked (+) on insulating sleeve.

MOUNTING—Designed for mounting by its own leads or with applicable hardware listed on page 17.

PACKAGING—25, 50, or 100 capacitors per display carton. Furnished in individual display cartons on orders for less than 25 or when specified.

| Mallory Cat. No. | Cap. Mfd. | DC Wkg. Volts | Maximum Surge Voltage | Size | |
|---------------------|----------------------------|------------------|-----------------------------|--------------------------------|----------------------------------|
| | | | | Dia. | Length |
| TC310 | 1000 | 3 | 4 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC605 | 500 | 6 | 10 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC610 | 1000 | 6 | 10 | 1 ⁵ / ₁₆ | x 2 |
| TC1505 | 500 | 15 | 20 | 1 ⁵ / ₁₆ | x 2 1 |
| TC22 | 10 | 25 | 40 | 9/ ₁₆ | x 1 ¹ / ₄ |
| TC26 | 25 | 25 | 40 | 9/ ₁₆ | x 1 ¹ / ₄ |
| TC29 | 50 | 25 | 40 | 1 ¹ / ₁₆ | x 1 ¹ / ₂ |
| TC2501 | 100 | 25 | 40 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC2505 | 500 | 25 | 40 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TC30 | 5 | 50 | 75 | 9/ ₁₆ | x 1 ¹ / ₄ |
| TC32 | 10 | 50 | 75 | 9/ ₁₆ | x 1 ¹ / ₄ |
| TC36 | 25 | 50 | 75 | 1 ¹ / ₁₆ | x 1 ¹ / ₄ |
| TC39 | 50 | 50 | 75 | 1 ³ / ₁₆ | x 1 ¹ / ₄ |
| TC40 | 5 | 150 | 200 | 9/ ₁₆ | x 1 ¹ / ₄ |
| TC41 | 8 | 150 | 200 | 1 ¹ / ₁₆ | x 1 ¹ / ₄ |
| TC42 | 10 | 150 | 200 | 1 ¹ / ₁₆ | x 1 ¹ / ₄ |
| TC43 | 12 | 150 | 200 | 1 ¹ / ₁₆ | x 1 ¹ / ₂ |
| TC44 | 16 | 150 | 200 | 1 ¹ / ₁₆ | x 1 ¹ / ₂ |
| TC45 | 20 | 150 | 200 | 1 ³ / ₁₆ | x 1 ¹ / ₂ |
| TC47 | 30 | 150 | 200 | 1 ³ / ₁₆ | x 1 ¹ / ₂ |
| TC48 | 40 | 150 | 200 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC49 | 50 | 150 | 200 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC50X | 5 | 250 | 325 | 1 ¹ / ₁₆ | x 1 ¹ / ₄ |
| TC51 | 8 | 250 | 325 | 1 ¹ / ₁₆ | x 1 ¹ / ₄ |
| TC52 | 10 | 250 | 325 | 1 ¹ / ₁₆ | x 1 ³ / ₄ |
| TC53 | 12 | 250 | 325 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC54 | 16 | 250 | 325 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC55 | 20 | 250 | 325 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC58 | 40 | 250 | 325 | 1 ¹ / ₁₆ | x 1 ³ / ₄ |
| TC60 | 5 | 350 | 425 | 1 ¹ / ₁₆ | x 1 ³ / ₄ |
| TC61 | 8 | 350 | 425 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC62 | 10 | 350 | 425 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC63 | 12 | 350 | 425 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC64 | 16 | 350 | 425 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC65 | 20 | 350 | 425 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC70 | 5 | 450 | 525 | 1 ¹ / ₁₆ | x 1 ³ / ₄ |
| TC71 | 8 | 450 | 525 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC72 | 10 | 450 | 525 | 1 ³ / ₁₆ | x 1 ³ / ₄ |
| TC73 | 12 | 450 | 525 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC74 | 16 | 450 | 525 | 1 ⁵ / ₁₆ | x 1 ³ / ₄ |
| TC75 | 20 | 450 | 525 | 1 ¹ / ₁₆ | x 1 ³ / ₄ |
| TC77 | 30 | 450 | 525 | 1 ¹ / ₁₆ | x 2 ¹ / ₄ |
| TC78 | 40 | 450 | 525 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TC82 | 10 | 500 | 650 | 1 ¹ / ₁₆ | x 2 ¹ / ₁₆ |
| TC92 | 10 | 600 | 750 | 1 ¹ / ₁₆ | x 2 ¹ / ₁₆ |
| TC308 | .5Z @ 15750 Cycles 3 V. NP | | | 1 ¹ / ₁₆ | x 2 |
| TC420 | 1.5Z @ 60 Cycles 4 V. NP | | | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |



Metal Tubular Dry Electrolytic Capacitors Dual Section

APPLICATION—For under-chassis mounting in filter and audio bypass circuits where long life and small size is desirable.

DESCRIPTION—Dual section dry electrolytic type encased in hermetically sealed aluminum tube with external insulating sleeve. Type TCD is dual common negative, TCS dual separate section.

TERMINALS—Type TCD is supplied with 3" bare solid tinned copper leads, both positive leads at one end and common negative lead at opposite end. Type TCS is supplied with soldering lugs, positive and negative of one section at one end and the other section at the opposite end.

MOUNTING—Type TCD is designed for mounting by its own leads or with applicable hardware shown on page 17. Type TCS is supplied with the Mallory TH clips for mounting, further described on page 17.

PACKAGING—Individual display carton.

Dual Common Negative

| Mallory Cat. No. | Cap. Mfd. | DC Wkg. Volts | Maximum Surge Voltage | Size | |
|---------------------|--------------|------------------|-----------------------------|--------------------------------|----------------------------------|
| | | | | Dia. | Length |
| TCD26 | 25-25 | 25 | 40 | 1 ³ / ₁₆ | x 1 ¹ / ₄ |
| TCD45 | 20-20 | 150 | 200 | 1 ³ / ₁₆ | x 2 |
| TCD47 | 30-30 | 150 | 200 | 1 ⁵ / ₁₆ | x 2 |
| TCD48 | 40-40 | 150 | 200 | 1 ¹ / ₁₆ | x 2 |
| TCD485 | 40-20 | 150 | 200 | 1 ¹ / ₁₆ | x 2 |
| TCD49 | 50-50 | 150 | 200 | 1 ¹ / ₁₆ | x 3 ¹ / ₁₆ |
| TCD497 | 50-30 | 150 | 200 | 1 ¹ / ₁₆ | x 2 ¹ / ₄ |
| TCD52 | 10-10 | 250 | 325 | 1 ⁵ / ₁₆ | x 2 |
| TCD55 | 20-20 | 250 | 325 | 1 ¹ / ₁₆ | x 2 |
| TCD62 | 10-10 | 350 | 425 | 1 ⁵ / ₁₆ | x 2 |
| TCD65 | 20-20 | 350 | 425 | 1 ¹ / ₁₆ | x 3 ¹ / ₁₆ |
| TCD71 | 8-8 | 450 | 525 | 1 ⁵ / ₁₆ | x 2 |
| TCD72 | 10-10 | 450 | 525 | 1 ¹ / ₁₆ | x 2 |
| TCD74 | 15-15 | 450 | 525 | 1 ¹ / ₁₆ | x 3 ¹ / ₁₆ |
| TCD75 | 20-20 | 450 | 525 | 1 ¹ / ₁₆ | x 3 ¹ / ₁₆ |

Dual Separate-Section

| Mallory Cat. No. | Cap. Mfd. | DC Wkg. Volts | Maximum Surge Voltage | Size | |
|---------------------|--------------|------------------|-----------------------------|--------------------------------|---------------------------------|
| | | | | Dia. | Length |
| TCS44 | 15-15 | 150 | 200 | 1 ³ / ₁₆ | x 2 ⁷ / ₈ |
| TCS45 | 20-20 | 150 | 200 | 1 ³ / ₁₆ | x 2 ⁷ / ₈ |
| TCS47 | 30-30 | 150 | 200 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TCS48 | 40-40 | 150 | 200 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TCS52 | 10-10 | 250 | 325 | 1 ⁵ / ₁₆ | x 2 ⁷ / ₈ |
| TCS55 | 20-20 | 250 | 325 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TCS61 | 8-8 | 350 | 425 | 1 ⁵ / ₁₆ | x 2 ⁷ / ₈ |
| TCS64 | 15-15 | 350 | 425 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TCS71 | 8-8 | 450 | 525 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TCS74 | 15-15 | 450 | 525 | 1 ¹ / ₁₆ | x 2 ⁷ / ₈ |
| TCS75 | 20-20 | 450 | 525 | 1 ¹ / ₁₆ | x 3 ¹ / ₂ |

Mallory Page 3 (See Mallory Page 1 for List Prices)

MALLORY DRY ELECTROLYTIC CAPACITORS



FP† Dry Electrolytic Capacitors

APPLICATION—For top chassis mounting in filter and audio bypass circuits. Extremely dependable under heavy ripple current, high surge voltage and high temperature (up to 185°F.) conditions.

DESCRIPTION—Single, dual, triple and quad section units encased in compact hermetically sealed aluminum cases with self-contained mounting feature. Type FP is supplied with famous Mallory Fabricated Plate (metalized cotton gauze) anodes, type WP with etched plate anodes. Special internal design provides low RF impedance and minimum coupling between sections. Case at negative potential.

TERMINALS—Solder lug type all at one end. Positive terminals identified by symbols in terminal board corresponding to case marking. Mounting ring provides negative terminal connection.

MOUNTING—Primarily designed for twist prong mounting through suitable chassis slots and may also be mounted as follows:

1. Type MP metal wafer providing the necessary slots without actually punching the chassis for grounded negative circuits.
2. Type BP bakelite wafer for insulated mounting, otherwise similar to Paragraph No. 1.
3. Type TH clip for horizontal mounting.
4. Type PS socket for plug-in mounting. (Remove blank ear with diagonal pliers to polarize unit in relation to socket.) See page 17 for applicable hardware.

PACKAGING—Individual display carton.

† Only Mallory can supply genuine Fabricated Plate (metalized cotton gauze) capacitors.

| Mallory Cat. No. | Capacity Mfd. | Wkg. Volts DC | Size Dia. Length |
|------------------|-------------------------------|-----------------|------------------|
| FP218 | 120-20 | 300 | 1 3/8 x 3 |
| FP225 | 15-15 | 350 | 1 x 2 |
| FP227 | 20-20 | 350 | 1 x 3 |
| FP228 | 30-30 | 350-300 | 1 x 3 |
| FP231 | 10-10 | 450 | 1 x 2 |
| FP234 | 20-20 | 450 | 1 x 3 |
| FP235 | 20-80 | 450-350 | 1 3/8 x 2 1/2 |
| FP236 | 40-10 | 450 | 1 3/8 x 2 |
| FP237 | 30-30 | 450 | 1 3/8 x 2 1/2 |
| FP238 | 40-40 | 450 | 1 3/8 x 3 |
| FP239 | 50-40 | 450 | 1 3/8 x 3 |
| FP240* | 50-50 | 450 | 1 3/8 x 3 |
| FP550 | 10-80 | 450-400 | 1 3/8 x 3 |
| FP244 | 80-50 | 450-50 | 1 3/8 x 3 |
| FP245 | 80-10 | 450 | 1 3/8 x 3 |
| WP520 | 40-40-40 | 25 | 1 x 2 |
| WP302 | 15-15-1000 | 150-150-2 | 1 x 2 |
| FP303 | 20-250-100 | 150-15-15 | 1 3/8 x 2 |
| FP304 | 40-20-200 | 150-150-25 | 1 x 3 |
| FP306 | 40-20-20 | 150-150-25 | 1 x 2 |
| FP307 | 40-20-100 | 150-150-25 | 1 x 2 1/2 |
| FP310 | 40-40-20 | 150-150-25 | 1 x 2 1/2 |
| FP309 | 50-30-100 | 150-150-25 | 1 x 2 1/2 |
| FP311 | 50-50-20 | 150-150-25 | 1 x 3 |
| FP312 | 100-25-50 | 150-25-50 | 1 x 3 |
| FP313 | 30-20-20 | 200-200-25 | 1 x 2 |
| FP316 | 20-15-20 | 250-250-25 | 1 x 2 |
| FP318 | 90-90-20 | 200-200-50 | 1 3/8 x 3 |
| FP326 | 100-60-20 | 300-150-25 | 1 3/8 x 3 |
| FP328 | 15-10-20 | 350-350-25 | 1 x 2 |
| FP369 | 20-10-5 | 350-350-250 | 1 x 2 |
| FP371 | 30-10-20 | 350-350-250 | 1 x 3 |
| FP330 | 30-20-20 | 350-350-25 | 1 x 3 |
| FP331 | 30-30-20 | 350-300-25 | 1 x 3 |
| FP332 | 10-10-20 | 450-450-25 | 1 x 2 |
| FP341 | 40-90-50 | 450-150-150 | 1 3/8 x 3 |
| FP342 | 40-40-130 | 450-150-50 | 1 3/8 x 3 |
| FP343 | 40-100-50 | 450-150-50 | 1 3/8 x 3 |
| FP344 | 10-30-30 | 450-400-300 | 1 3/8 x 2 1/2 |
| FP380 | 20-15-15 | 450-350-300 | 1 x 3 |
| FP339 | 20-20-20 | 450-450-25 | 1 x 3 |
| FP345 | 40-10-80 | 450-450-200 | 1 3/8 x 3 |
| FP346 | 40-40-20 | 450-450-25 | 1 3/8 x 3 |
| FP395 | 40-40-40 | 450-450-150 | 1 3/8 x 3 |
| FP354 | 20-20-20 | 150 | 1 x 2 |
| FP355 | 40-20-20 | 150 | 1 x 2 1/2 |
| FP357 | 40-40-40 | 150 | 1 x 3 |
| FP360 | 15-20-20 | 250-150-150 | 1 x 2 |
| FP363 | 40-20-20 | 250 | 1 3/8 x 2 |
| FP367 | 10-10-10 | 350 | 1 x 2 |
| FP389 | 10-10-10 | 450 | 1 x 2 1/2 |
| FP390 | 15-15-10 | 450 | 1 x 3 |
| FP393 | 40-40-10 | 450 | 1 3/8 x 3 |
| FP407 | 30-20-20-200 | 150-150-150-10 | 1 3/8 x 2 |
| FP409 | 40-40-30-20 | 150-150-150-25 | 1 3/8 x 2 |
| FP410 | 50-50-50-20 | 150-150-150-25 | 1 3/8 x 2 1/2 |
| FP413 | 40-40-40-20 | 300-300-300-150 | 1 3/8 x 3 |
| FP414 | 15-80-40-200 | 350-200-200-25 | 1 3/8 x 3 |
| FP416 | 40-40-20-20 | 350-300-300-25 | 1 3/8 x 3 |
| FP421 | 5-5-50-80 | 400-400-300-250 | 1 3/8 x 3 |
| FP428 | 40-10-35-10 | 450-450-350-350 | 1 3/8 x 3 |
| FP424 | 15-15-10-20 | 450-450-450-25 | 1 3/8 x 2 |
| FP431 | 40-10-15-25 | 450-450-450-25 | 1 3/8 x 3 |
| FP432 | 40-10-10-250 | 450-450-450-25 | 1 3/8 x 3 |
| FP426 | 20-15-20-20 | 450-450-25-25 | 1 3/8 x 2 |
| FP429 | 40-30-10-20 | 450-450-450-25 | 1 3/8 x 3 |
| FP433 | 60-10-10-20 | 450-450-450-150 | 1 3/8 x 3 |
| FP434 | 10-10-10-10 | 450 | 1 3/8 x 2 |
| FP444 | 20-20-20-20 | 450 | 1 3/8 x 3 |
| WP505 | 10Z@30 cycles to 5 megacycles | 3 V. NP | 3/8 x 2 |
| WP510 | .5Z@15750 cycles | 3 V. NP | 1 x 2 |
| WP540 | 1.0Z@60 cycles | 3 V. NP | 1 3/8 x 3 |

*For Photoflash Applications.

Surge Voltage Data

| Wkg. VDC. | Surge Volts |
|-----------|-------------|
| 6 | 10 |
| 10 | 15 |
| 15 | 20 |
| 25 | 40 |
| 150 | 200 |
| 200 | 275 |
| 250 | 325 |
| 300 | 375 |
| 350 | 425 |
| 400-450 | 525 |

● Due to the many multiple section listings on FP capacitors, it is not practical to show surge voltage ratings without consuming considerable space in the chart. The surge voltage ratings are, therefore, given separately in the small chart.

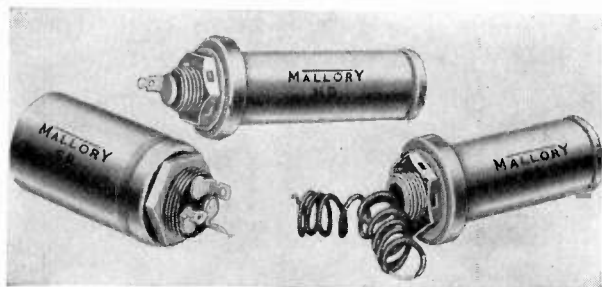
| Mallory Cat. No. | Capacity Mfd. | Wkg. Volts DC | Size Dia. Length |
|------------------|---------------|---------------|------------------|
| WP032 | 3000 | 10 | 1 3/8 x 2 1/2 |
| WP039 | 1000 | 15 | 1 x 2 1/2 |
| WP041 | 2000 | 15 | 1 3/8 x 2 1/2 |
| WP055 | 100 | 25 | 1 x 2 |
| WP057 | 500 | 25 | 1 x 2 1/2 |
| WP059 | 1000 | 25 | 1 3/8 x 2 |
| WP065 | 500 | 50 | 1 3/8 x 2 |
| FP113 | 30 | 150 | 3/8 x 2 |
| FP115 | 50 | 150 | 1 x 2 |
| FP116 | 100 | 150 | 1 x 3 |
| FP117 | 150 | 150 | 1 x 3 |
| FP125 | 15 | 250 | 3/8 x 2 |
| FP135 | 30 | 350 | 1 x 2 |
| FP137 | 50 | 350 | 1 x 2 1/2 |
| FP138 | 80 | 350 | 1 3/8 x 2 1/2 |
| FP140 | 125 | 350 | 1 3/8 x 3 |
| FP142 | 10 | 450 | 3/8 x 2 |
| FP143 | 15 | 450 | 1 x 2 |
| FP144 | 20 | 450 | 1 x 2 |
| FP145 | 30 | 450 | 1 x 3 |
| FP146 | 40 | 450 | 1 x 3 |
| FP149 | 80 | 450 | 1 3/8 x 2 1/2 |
| WP200 | 1000-1000 | 15 | 1 3/8 x 2 1/2 |
| WP204 | 250-1000 | 10-6 | 1 3/8 x 2 |
| FP208 | 20-20 | 150 | 1 x 2 |
| FP210 | 40-20 | 150 | 1 x 2 |
| FP211 | 30-30 | 150 | 1 x 2 |
| FP212 | 40-40 | 150 | 1 x 2 1/2 |
| FP213 | 50-30 | 150 | 1 x 2 1/2 |
| FP214 | 50-50 | 150 | 1 x 2 1/2 |
| FP215 | 125-100 | 150 | 1 3/8 x 2 1/2 |
| FP216 | 80-40 | 150 | 1 x 3 |
| FP217 | 20-20 | 250 | 1 x 2 |

Mallory Page 4 (See Mallory Page 1 for List Prices)

(See Pages P-25 and P-26 for Mallory List Prices)

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MALLORY DRY ELECTROLYTIC CAPACITORS



Threaded Neck Dry Electrolytic Capacitors

APPLICATION—Designed for replacement of wet or dry electrolytic threaded neck type filter capacitors originally employed in any type of electronic filter or bypass circuit.

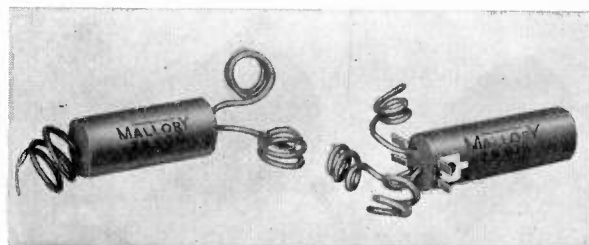
DESCRIPTION—Type RS are single section, RM multiple separate section capacitors encased in aluminum cans equipped with threaded necks for mounting. Both types are internally insulated from their aluminum can. Type HD is for heavy duty, type HS for high surge voltage conditions. Type SR638 is lug type dual. Type SR645 has special internal connections, one terminal common anode, one terminal negative to one section and case negative to the other section.

TERMINALS—RS, RM and HS have 8" flexible insulated stranded copper leads all out through the threaded neck part of the case. Type HD has one solder lug terminal for positive and case is negative. Type SR has two positive lug terminals with case common negative.

MOUNTING—Types RS, RM, HD and HS have threaded necks ($\frac{5}{8}$ x 16 for 1" dia.— $\frac{3}{4}$ x 16 for 1 $\frac{1}{8}$ " dia.) supplied with palnut and special washer providing installation in various chassis hole sizes. All 1" diameter units in these types are also supplied with a special turned-over washer for 1 $\frac{3}{8}$ " clamp mounting. Type SR has $\frac{7}{8}$ -16 thread molded necks with solid nut. See page 17 for other hardware.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Capacity Mfd. | Volts DC | Size | |
|---------------------|------------------|-------------|-----------------------------------|--------|
| | | | Dia. | Length |
| RS207 | 30 | 250 | 1 x 3 $\frac{1}{2}$ | |
| RS212 | 8 | 450 | 1 $\frac{1}{8}$ x 3 | |
| RS213 | 8 | 450 | 1 x 2 $\frac{3}{4}$ | |
| RS214 | 12 | 450 | 1 $\frac{1}{8}$ x 3 | |
| RS215 | 12 | 450 | 1 x 2 $\frac{3}{4}$ | |
| RS216 | 16 | 450 | 1 x 3 $\frac{1}{2}$ | |
| RS217 | 16 | 450 | 1 $\frac{1}{8}$ x 3 | |
| RS219 | 20 | 450 | 1 $\frac{1}{8}$ x 3 | |
| RS223 | 30 | 450 | 1 $\frac{1}{8}$ x 3 | |
| RS224 | 40 | 450 | 1 $\frac{1}{8}$ x 3 | |
| HD684 | 10 | 450 | 1 x 3 | |
| HS693 | 8 | 600 | 1 $\frac{1}{8}$ x 4 | |
| RM262 | 8-8 | 450 | 1 $\frac{1}{8}$ x 3 $\frac{3}{4}$ | |
| RM265 | 8-8-8 | 450 | 1 $\frac{1}{8}$ x 4 $\frac{1}{4}$ | |
| SR638 | 8-8 | 450 | 1 $\frac{1}{8}$ x 2 $\frac{3}{4}$ | |
| SR645 | 8-8 | 450 | 1 $\frac{1}{8}$ x 2 $\frac{3}{4}$ | |



Cardboard Tubular Dry Electrolytic Capacitors

APPLICATION—Low cost filter and bypass units for above or below-chassis mounting where humidity conditions are not extreme.

DESCRIPTION—Single, dual, triple and quad section units in cardboard tubes with extra inner seal and ample wax seal at ends. Dual, triple and quad section units are common negative or separate section type, as indicated in chart.

TERMINALS—All types are supplied with flexible covered leads out one end except those marked (*) which have negative lead out opposite end.

MOUNTING—All units (except TN111) are supplied with an adjustable horizontal mounting strap (MS-1) and all units with leads out one end have special feet for vertical mounting in addition to the strap. For other hardware, see page 17.

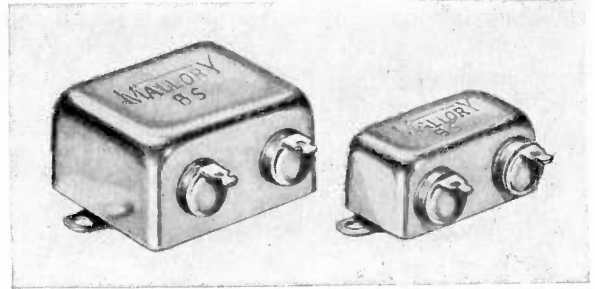
PACKAGING—Individual display carton.

| Single Sections | | | |
|-------------------------|------------------|-------------|------------------------------------|
| Mallory Cat. No. | Capacity Mfd. | Volts DC | Size Dia. Length |
| ST595 | 8 | 450 | $\frac{3}{4}$ x 2 $\frac{1}{2}$ |
| ST597 | 16 | 450 | $\frac{7}{8}$ x 2 $\frac{3}{4}$ |
| ST598 | 20 | 450 | 1 x 2 $\frac{3}{4}$ |
| ST599 | 30 | 450 | 1 x 3 $\frac{1}{2}$ |
| Dual Common Negative | | | |
| TN111 | 10-10 | 25 | $\frac{5}{8}$ x 1 $\frac{1}{4}$ |
| 2N509* | 20-20 | 150 | $\frac{7}{8}$ x 2 $\frac{1}{8}$ |
| 2N513* | 30-30 | 150 | $\frac{7}{8}$ x 2 $\frac{3}{4}$ |
| 2N514* | 40-20 | 150 | $\frac{7}{8}$ x 2 $\frac{1}{2}$ |
| 2N511* | 40-40 | 150 | $1\frac{1}{16}$ x 2 $\frac{1}{2}$ |
| 2N520* | 50-30 | 150 | 1 x 2 $\frac{3}{8}$ |
| 2N521 | 50-50 | 150 | 1 x 2 $\frac{3}{8}$ |
| 2N516* | 8-8 | 250 | $\frac{7}{8}$ x 2 $\frac{1}{8}$ |
| 2N518 | 8-8 | 450 | $1\frac{1}{16}$ x 2 $\frac{3}{4}$ |
| Dual Separate Sections | | | |
| 2S556 | 30-30 | 150 | 1 $\frac{1}{8}$ x 2 $\frac{3}{8}$ |
| 2S567 | 8-8 | 450 | 1 $\frac{1}{8}$ x 2 $\frac{3}{4}$ |
| 2S569 | 16-16 | 450 | 1 $\frac{1}{4}$ x 3 $\frac{1}{8}$ |
| Triple Common Negative | | | |
| 3N527* | 20-20-20 | 150-150-25 | $1\frac{1}{16}$ x 2 $\frac{1}{4}$ |
| 3N533* | 30-30-20 | 150-150-25 | 1 x 2 $\frac{3}{8}$ |
| TN125* | 20-10-10 | 150 | $\frac{7}{8}$ x 2 $\frac{3}{4}$ |
| TN129 | 40-20-20 | 150 | 1 x 2 $\frac{3}{8}$ |
| Triple Separate Section | | | |
| 3S579 | 8-8-20 | 450-450-25 | 1 $\frac{1}{16}$ x 2 $\frac{3}{8}$ |
| 3S584 | 8-8-8 | 450 | 1 $\frac{1}{16}$ x 2 $\frac{3}{8}$ |
| Quad Separate Sections | | | |
| 4S715 | 16-16, 10-10 | 150-25 | 1 $\frac{1}{8}$ x 2 $\frac{3}{8}$ |

NOTE—Triple and Quad Separate Section units have first section separate, others common negative.

Mallory Page 5 (See Mallory Page 1 for List Prices)

MALLORY DRY ELECTROLYTIC CAPACITORS



Bathtub Dry Electrolytic Capacitors

High Capacity Dry Electrolytic Capacitors and Non-Polarized Dry Electrolytic Capacitors

APPLICATION—Type HC are for filtering dry disc rectifiers and for electric fence controls, talking picture equipment, and other high-capacity low-voltage applications. Type HC1060A is especially designed for replacement in fence control equipment.

Type NP are non-polarized units for use where polarity may be applied in either direction, but are not suitable for continuous AC applications. Useful in welding and control equipment as a stored energy device.

DESCRIPTION—High quality etched plate electrolytic capacitors supplied in moisture-proof plastic cases requiring no external insulation. Type HC are polarized, and NP are non-polarized type.

TERMINALS—Two solder lug terminals at one end.

MOUNTING—Supplied with type VR bracket for vertical mounting, and design permits horizontal mounting with protector end cap (sold separately). See page 17 for hardware details.

PACKAGING—Individual display carton.

APPLICATION—For filter and bypass circuits in marine, aircraft, geophysical and other applications where extreme operating conditions are encountered. BS81 and BS91 are ideal for power amplifier and other high voltage applications.

DESCRIPTION—Dry electrolytic capacitors where cartridges are first sealed in aluminum tubes and then encased in sturdy corrosion-resistant, hot-tinned steel cases providing complete hermetical seal under all weather conditions. All units internally insulated from outer case. BS81 and BS91 employ the special Mallory balanced series unit construction for extreme dependability at high voltage. Temperature range, -40°F. to $+185^{\circ}\text{F.}$

TERMINALS—Two solder lug terminals on one side

MOUNTING—Provided with mounting flanges at each end having $\frac{3}{16}$ " holes.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Capac- ity Mfd. | DC Wkg. Volts | Maximum Surge Voltage | Size | |
|---------------------|-----------------------|---------------------|-----------------------------|------------------------------------|--------|
| | | | | Dia. | Length |
| HC1020 | 2000 | 10 | 15 | 1 $\frac{7}{16}$ x 3 $\frac{3}{8}$ | |
| HC1040 | 4000 | 10 | 15 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ | |
| HC1060 | 6000 | 10 | 15 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ | |
| HC1060A* | 6000 | 10 | 15 | 1 $\frac{1}{2}$ x 4 $\frac{1}{2}$ | |
| HC1520 | 2000 | 15 | 20 | 1 $\frac{3}{16}$ x 3 $\frac{3}{8}$ | |
| HC1540 | 4000 | 15 | 20 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ | |
| HC1560 | 6000 | 15 | 20 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ | |
| HC2510 | 1000 | 25 | 40 | 1 $\frac{7}{16}$ x 3 $\frac{3}{8}$ | |
| HC2520 | 2000 | 25 | 40 | 1 $\frac{3}{16}$ x 3 $\frac{3}{8}$ | |
| HC2540 | 4000 | 25 | 40 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ | |
| HC5005 | 500 | 50 | 75 | 1 $\frac{7}{16}$ x 3 $\frac{3}{8}$ | |
| HC5010 | 1000 | 50 | 75 | 1 $\frac{3}{16}$ x 3 $\frac{3}{8}$ | |
| HC5020 | 2000 | 50 | 75 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ | |
| HC15010 | 1000 | 150 | 200 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ | |
| HC20005 | 500 | 200 | 275 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ | |

| Mallory Cat. No. | Cap. Mfd. | DC Wkg. Volts | Max. Surge Voltage | Size* | | | |
|---------------------|--------------|---------------------|--------------------------|-----------------------------------|-------------------|-------------------|-------------------|
| | | | | H | W | L | Y |
| BS26 | 25 | 25 | 40 | $\frac{3}{4}$ x 1 | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ | |
| BS29 | 50 | 25 | 40 | $\frac{3}{4}$ x 1 | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ | |
| BS36 | 25 | 50 | 75 | $\frac{3}{4}$ x 1 | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ | |
| BS39 | 50 | 50 | 75 | $\frac{7}{8}$ x 1 | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ | |
| BS45 | 20 | 150 | 200 | $\frac{7}{8}$ x 1 | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ | |
| BS48 | 40 | 150 | 200 | 1 | x 1 $\frac{1}{4}$ | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ |
| BS62 | 10 | 300 | 375 | $\frac{7}{8}$ x 1 | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ | |
| BS65 | 20 | 300 | 375 | 1 $\frac{1}{8}$ x 1 $\frac{1}{4}$ | x 1 $\frac{3}{4}$ | x 2 $\frac{1}{2}$ | |
| BS81 | 8 | 500 | 650 | 1 | x 1 $\frac{3}{4}$ | x 2 | x 2 $\frac{3}{4}$ |
| BS91 | 8 | 600 | 750 | 1 | x 1 $\frac{3}{4}$ | x 2 | x 2 $\frac{3}{4}$ |

*H—Height; W—Width; L—Length; Y—Mounting Centers.

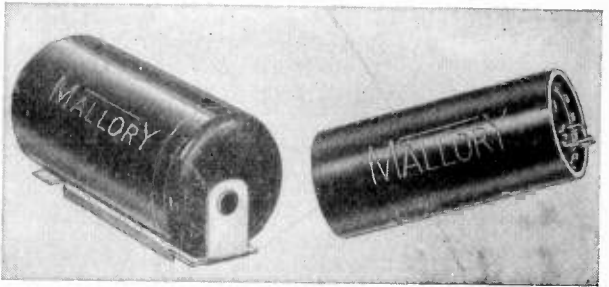
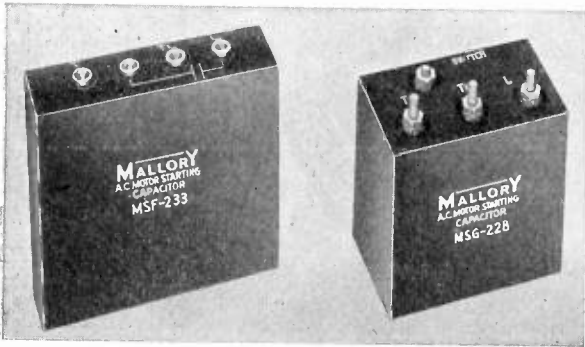
| | | | | |
|--------|------|-----|-----|------------------------------------|
| NP0340 | 2000 | 25 | 40 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |
| NP0555 | 500 | 50 | 75 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ |
| NP1225 | 200 | 125 | 200 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ |
| NP1235 | 300 | 125 | 200 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |
| NP1245 | 400 | 125 | 200 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |
| NP1255 | 500 | 125 | 200 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |
| NP2514 | 100 | 250 | 325 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ |
| NP2520 | 150 | 250 | 325 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ |
| NP2525 | 200 | 250 | 325 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |
| NP3003 | 15 | 300 | 375 | 1 $\frac{7}{16}$ x 3 $\frac{3}{8}$ |
| NP3006 | 30 | 300 | 375 | 1 $\frac{7}{16}$ x 3 $\frac{3}{8}$ |
| NP3008 | 50 | 300 | 375 | 1 $\frac{7}{16}$ x 3 $\frac{3}{8}$ |
| NP3014 | 100 | 300 | 375 | 1 $\frac{3}{16}$ x 4 $\frac{3}{8}$ |
| NP3020 | 150 | 300 | 375 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |
| NP3025 | 200 | 300 | 375 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |
| NP4503 | 30 | 450 | 525 | 1 $\frac{7}{16}$ x 3 $\frac{3}{8}$ |
| NP4505 | 50 | 450 | 525 | 1 $\frac{3}{16}$ x 3 $\frac{3}{8}$ |
| NP4510 | 100 | 450 | 525 | 2 $\frac{1}{16}$ x 4 $\frac{3}{8}$ |

*This unit in Aluminum Case

MALLORY VIBRATOR GUIDE

Long recognized as one of the most useful publications in the radio service field. Up-to-date, completely organized for quick, accurate reference. Contains all available information through 1947 automobile and battery-operated home radio receivers as well as vibrator power supplies. See your Mallory Distributor.

MALLORY DRY ELECTROLYTIC CAPACITORS



AC Motor Starting Capacitors Dry Electrolytic

APPLICATION—For replacement of rectangular case type motor starting capacitors.

DESCRIPTION—Dry electrolytic intermittent duty AC capacitors housed in rectangular cases and provided with terminal arrangement similar to the design of the original capacitors they replace.

TERMINALS—Equipped with two capacitor terminals and two dummy terminals. The L and unmarked terminal are the capacitors, while T and TL are dummies for convenience in wiring.

MOUNTING—Designed to mount in the original clamps or boxes used for the original capacitors.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Mfd. New | Rating Old | Volts AC | Size* | | |
|---------------------|-------------|---------------|-------------|-------|-------|-------|
| | | | | W | L | H |
| MSG220 | 32 | 32-36 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSG221 | 53 | 53-60 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSG222 | 64 | 64-72 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSG223 | 78 | 78-85 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSF224 | 86 | 86-96 | 110 | 1 1/4 | 4 1/2 | 4 1/2 |
| MSG225 | 97 | 97-107 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSG226 | 108 | 108-120 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSF227 | 108 | 108-120 | 110 | 1 1/4 | 4 1/2 | 4 1/2 |
| MSG228 | 124 | 124-138 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSF229 | 124 | 124-138 | 110 | 1 1/4 | 4 1/2 | 4 1/2 |
| MSG230 | 145 | 145-162 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSG231 | 161 | 161-180 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSF232 | 161 | 161-180 | 110 | 1 1/2 | 4 1/4 | 4 1/4 |
| MSF233 | 189 | 189-210 | 110 | 1 1/2 | 4 1/4 | 4 1/4 |
| MSG234 | 270 | 270-300 | 110 | 2 | 3 1/2 | 3 1/2 |
| MSG250 | 26 | 26-30 | 220 | 2 | 3 1/2 | 3 1/2 |
| MSG251 | 32 | 32-36 | 220 | 2 | 3 1/2 | 3 1/2 |
| MSF252 | 32 | 32-36 | 220 | 1 1/4 | 4 1/2 | 4 1/2 |
| MSG253 | 43 | 43-48 | 220 | 2 | 3 1/2 | 3 1/2 |

*W—Width; L—Length; H—Height.



Capacitor Selector

For determining correct capacity to use in making replacements of defective motor starting capacitors which have lost their identity.

For checking capacity ranges from 26 to 161 mfd. 110-125 VAC
Catalog No. MSS-100.

For checking capacity ranges from 25 to 645 mfd. 110-125 VAC
Catalog No. MSS-101.

AC Motor Starting Capacitors Dry Electrolytic

APPLICATION—For intermittent duty in starting AC capacitor motors in any application where round type cases are required.

DESCRIPTION—Dry electrolytic non-polarized type capacitors housed in round cases. Rated at the minimum capacity value with a plus tolerance of 20% unless otherwise indicated by reference to old minimum-maximum capacity rating. Type P furnished in moisture-proof plastic containers, and type MSU in aluminum cases with external insulating sleeve.

TERMINALS—Two solder lug terminals at one end.

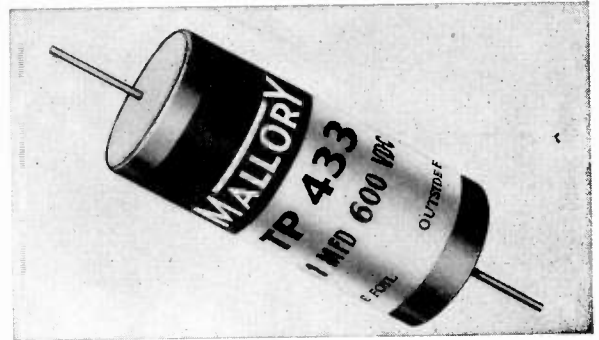
MOUNTING—Both type P and MSU may be mounted interchangeably in any original mounting for units of equivalent size. Type P may also be mounted by means of a plastic end cap (type PL) and sturdy metal snap-in type bracket (type HB) furnished separately when desired. See page 17 for these and other mounting hardware.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Mfd. New | Rating Old | Volts AC | Size | |
|---------------------|-------------|---------------|-------------|---------|---------|
| | | | | Dia. | Length |
| MSU120 | 20 | 20-24 | 110 | 1 3/8 | x 2 3/4 |
| MSU121 | 26 | 26-30 | 110 | 1 3/8 | x 2 3/4 |
| MSU122 | 32 | 32-36 | 110 | 1 3/8 | x 2 3/4 |
| MSU123 | 38 | 38-42 | 110 | 1 3/8 | x 2 3/4 |
| MSU124 | 43 | 43-48 | 110 | 1 3/8 | x 2 3/4 |
| P5310 | 53 | 53-60 | 110 | 1 7/16 | x 3 3/8 |
| P6410 | 64 | 64-72 | 110 | 1 7/16 | x 3 3/8 |
| P7010 | 70 | 70-78 | 110 | 1 7/16 | x 3 3/8 |
| P7510 | 75 | 75-84 | 110 | 1 7/16 | x 3 3/8 |
| P8610 | 86 | 86-96 | 110 | 1 7/16 | x 3 3/8 |
| P9710 | 97 | 97-107 | 110 | 1 7/16 | x 3 3/8 |
| P10810 | 108 | 108-120 | 110 | 1 7/16 | x 3 3/8 |
| P12410 | 124 | 124-138 | 110 | 1 7/16 | x 3 3/8 |
| P13010 | 130 | 130-157 | 110 | 1 7/16 | x 3 3/8 |
| P14510 | 145 | 145-162 | 110 | 1 7/16 | x 3 3/8 |
| P16110 | 161 | 161-180 | 110 | 1 7/16 | x 3 3/8 |
| MSU136 | 194 | 194-216 | 110 | 1 3/8 | x 4 1/4 |
| P19410 | 194 | 194-216 | 110 | 1 7/16 | x 3 3/8 |
| MSU138 | 200 | 200-220 | 110 | 1 3/8 | x 4 1/4 |
| P21610 | 216 | 216-240 | 110 | 1 13/16 | x 3 3/8 |
| P24310 | 243 | 243-270 | 110 | 1 13/16 | x 3 3/8 |
| P27010 | 270 | 270-300 | 110 | 1 13/16 | x 4 1/8 |
| P32410 | 324 | 324-360 | 110 | 1 13/16 | x 4 1/8 |
| P34010 | 340 | 340-412 | 110 | 2 1/16 | x 4 3/8 |
| P37810 | 378 | 378-420 | 110 | 2 1/16 | x 4 3/8 |
| P40010 | 400 | 400-450 | 110 | 2 1/16 | x 4 3/8 |
| P43010 | 430 | 430-485 | 110 | 2 1/16 | x 4 3/8 |
| P2520 | 25 | 26-30 | 220 | 1 7/16 | x 3 3/8 |
| P3220 | 32 | 32-36 | 220 | 1 13/16 | x 3 3/8 |
| P3820 | 38 | 38-42 | 220 | 1 13/16 | x 3 3/8 |
| P4320 | 43 | 43-48 | 220 | 1 13/16 | x 3 3/8 |
| P5320 | 53 | 53-60 | 220 | 1 13/16 | x 3 3/8 |
| P6420 | 64 | 64-72 | 220 | 1 13/16 | x 4 3/8 |
| P7020 | 70 | 70-78 | 220 | 2 1/16 | x 4 3/8 |
| P7520 | 75 | 75-84 | 220 | 2 1/16 | x 4 3/8 |
| P8620 | 86 | 86-96 | 220 | 2 1/16 | x 4 3/8 |

Mallory Page 7 (See Mallory Page 1 for List Prices)

MALLORY PAPER CAPACITORS



Continuous Duty—Oil Impregnated—AC Capacitors

APPLICATION—Designed primarily for heavy duty AC applications. May be used as motor running capacitors, fluorescent light ballast, etc. where continuous duty and dependability are required.

DESCRIPTION—Supplied in metal cases, these units may be safely operated at voltages up to 10% above the rated values and at temperatures as high as 75°C. The impregnating oil is non-inflammable and non-oxidizable, which accounts for the high safety factor and long life of these capacitors.

TERMINALS—Two solder lug terminals at one end. Terminals feature a new all welded construction.

MOUNTING—Mounting may be accomplished by using the original housing or by means of type VR brackets. Complete description of available hardware is on page 17. Order separately as required.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Cap. Mfd. | Volts AC | Size Dia. Length |
|------------------|-----------|----------|------------------|
| RP-3301 | 1 | 330 | 1 3/8 x 1 7/8 |
| RP-3302 | 2 | 330 | 1 3/8 x 3 3/8 |
| RP-3303 | 3 | 330 | 2 x 2 5/16 |
| RP-3304 | 4 | 330 | 2 x 2 7/8 |
| RP-3305 | 5 | 330 | 2 x 3 3/16 |
| RP-3306 | 6 | 330 | 2 x 3 13/16 |
| RP-3307 | 7 | 330 | 2 x 4 5/16 |
| RP-3308 | 8 | 330 | 2 x 4 13/16 |
| RP-3310 | 10 | 330 | 2 1/2 x 4 3/8 |
| RP-3312 | 12 | 330 | 2 1/2 x 4 3/4 |
| RP-3315 | 15 | 330 | 2 1/2 x 5 1/16 |

Tubular Paper Capacitors

APPLICATION—For use in radio and electronic circuits, especially RF bypassing, where low cost and small size are paramount. Well protected from moisture but not hermetically sealed.

DESCRIPTION—Both TP and OW are compact paper tubular construction. Type TP is wax impregnated and filled. Type OW is oil impregnated and wax filled.

TERMINALS—Two bare tinned copper leads, one at each end.

MOUNTING—By means of their lead wires or TH clips of applicable size. See page 17 for mounting hardware.

PACKAGING—25, 50 or 100 capacitors per display carton.

Wax impregnated tubular paper capacitors

| Cap. Mfd. | 400 Volts DC | | 600 Volts DC | | 1000 Volts DC | |
|-----------|------------------|----|------------------|----|------------------|----|
| | Mallory Cat. No. | S | Mallory Cat. No. | S | Mallory Cat. No. | S |
| .0001 | | | TP401 | 1 | | |
| .00025 | | | TP402 | 1 | | |
| .0005 | | | TP403 | 1 | | |
| .001 | | | TP404 | 19 | TP455 | 19 |
| .002 | | | TP405 | 2 | TP456 | 19 |
| .003 | | | TP406 | 19 | TP457 | 20 |
| .004 | | | TP407 | 19 | TP458 | 20 |
| .005 | | | TP408 | 19 | TP459 | 3 |
| .006 | | | TP409 | 19 | TP460 | 3 |
| .007 | | | TP445 | 2 | TP461 | 5 |
| .008 | | | TP450 | 2 | TP462 | 5 |
| .01 | TP421 | 19 | TP410 | 2 | TP434 | 3 |
| .015 | TP400 | 4 | TP411 | 3 | TP463 | 7 |
| .02 | TP423 | 3 | TP412 | 5 | TP435 | 8 |
| .025 | | | TP451 | 5 | | |
| .03 | TP424 | 5 | TP413 | 8 | TP464 | 9 |
| .04 | TP425 | 5 | TP414 | 8 | TP465 | 9 |
| .05 | TP426 | 7 | TP415 | 8 | TP437 | 10 |
| .06 | TP427 | 7 | TP416 | 6 | TP466 | 10 |
| .075 | | | TP452 | 9 | TP467 | 11 |
| .1 | TP428 | 8 | TP418 | 9 | TP439 | 12 |
| .15 | | | TP417 | 11 | | |
| .2 | TP429 | 10 | TP419 | 12 | | |
| .25 | TP430 | 11 | TP420 | 13 | | |
| .3 | TP444 | 11 | TP453 | 14 | | |
| .4 | TP442 | 12 | TP454 | 15 | | |
| .5 | TP431 | 14 | TP432 | 16 | | |
| 1.0 | TP422 | 17 | TP433 | 18 | | |

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Loud Speakers and Their Use
 Superheterodyne First Detectors and Oscillators
 Half-Wave and Voltage Doubler Power Supplies
 Vibrators and Vibrator Power Supplies
 Phono-Radio Service Data
 Automatic Tuning
 Frequency Modulation
 Fundamentals of Television
 Dry Electrolytic Capacitors
 Practical Radio Noise Suppression
 Vacuum Tube Voltmeters
 Useful Servicing Information
 Receiving Tube Characteristics

SEE YOUR MALLORY DISTRIBUTOR TODAY.

Type TP Size Chart

To save space in the main chart, the various sizes have been listed below. Column "S" refers to these sizes.

| S | Size Dia. Length | S | Size Dia. Length |
|----|------------------|----|------------------|
| 1 | 1 1/32 x 1 | 11 | 1 1/16 x 1 1/8 |
| 2 | 7/16 x 1 | 12 | 3/4 x 1 1/8 |
| 3 | 7/16 x 1 1/4 | 13 | 13/16 x 1 1/8 |
| 4 | 1/2 x 1 1/16 | 14 | 7/8 x 1 1/8 |
| 5 | 1/2 x 1 1/4 | 15 | 3/4 x 2 |
| 6 | 9/16 x 1 1/4 | 16 | 1 x 2 1/4 |
| 7 | 1/2 x 1 1/2 | 17 | 1 x 2 1/2 |
| 8 | 17/32 x 1 1/2 | 18 | 1 1/4 x 2 1/2 |
| 9 | 5/8 x 1 9/16 | 19 | .390 x 1 |
| 10 | 5/8 x 1 7/8 | 20 | .390 x 1 1/4 |

MALLORY OIL IMPREGNATED CAPACITORS

Oil Impregnated Tubular Paper Capacitors



| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size | |
|------------------|-----------|------------------|--------|----------|
| | | | Dia. | Length |
| OW340 | .0005 | 1600 | 1/2 | x 1 1/2 |
| OW341 | .001 | 1600 | 1/2 | x 1 1/2 |
| OW331 | .002 | 1600 | 9/16 | x 1 1/2 |
| OW342 | .003 | 1600 | 5/8 | x 1 1/2 |
| OW343 | .004 | 1600 | 9/16 | x 1 5/16 |
| OW332 | .005 | 1600 | 9/16 | x 1 5/16 |
| OW344 | .006 | 1600 | 9/16 | x 1 9/16 |
| OW345 | .007 | 1600 | 9/16 | x 1 9/16 |
| OW346 | .0075 | 1600 | 9/16 | x 1 9/16 |
| OW333 | .008 | 1600 | 9/16 | x 1 9/16 |
| OW334 | .01 | 1600 | 5/8 | x 1 9/16 |
| OW335 | .015 | 1600 | 11/16 | x 1 9/16 |
| OW336 | .02 | 1600 | 3/4 | x 1 9/16 |
| OW337 | .03 | 1600 | 3/4 | x 2 |
| OW338 | .04 | 1600 | 13/16 | x 2 |
| OW339 | .05 | 1600 | 7/8 | x 2 |
| OWD335 | .015 | 1600 | 3/4 | x 2 |
| | .015 | | | |
| OW635 | .0005 | 6000 | 9/16 | x 1 3/4 |
| OW621 | .001 | 6000 | 11/16 | x 1 3/4 |
| OW622 | .002 | 6000 | 27/32 | x 1 3/4 |
| OW623 | .003 | 6000 | 1 | x 1 3/4 |
| OW625 | .005 | 6000 | 27/32 | x 2 1/2 |
| OW6275 | .0075 | 6000 | 15/16 | x 2 1/2 |
| OW611 | .01 | 6000 | 1 1/32 | x 2 1/2 |
| OW612 | .02 | 6000 | 1 7/32 | x 3 |
| OW613 | .03 | 6000 | 1 1/4 | x 3 3/4 |

Metal Cased Oil Impregnated Paper Capacitors



APPLICATION—For vibrator buffer, coupling, and other circuits where highest quality tubular type capacitors are required.

DESCRIPTION—Mineral oil impregnated hermetically sealed aluminum tubulars with external insulating sleeves.

TERMINALS—Two bare tinned copper leads, one at each end.

MOUNTING—Designed for mounting by its own leads, may also be mounted by use of the TH clip furnished with each capacitor. See page 17 for description of the TH clip and other hardware.

PACKAGING—10 capacitors per display carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size | |
|------------------|-----------|------------------|--------|-----------|
| | | | Dia. | Length |
| OT101 | .01 | 600 | 5/8 | x 1 3/8 |
| OT103 | .02 | 600 | 5/8 | x 1 3/8 |
| OT106 | .05 | 600 | 11/16 | x 1 3/8 |
| OT110 | .1 | 600 | 11/16 | x 1 11/16 |
| OT113 | .25 | 600 | 13/16 | x 2 1/8 |
| OT116 | .5 | 600 | 1 1/16 | x 2 1/4 |
| OT301 | .01 | 1000 | 5/8 | x 1 3/8 |
| OT303 | .02 | 1000 | 11/16 | x 1 3/8 |
| OT306 | .05 | 1000 | 11/16 | x 2 3/16 |
| OT310 | .1 | 1000 | 13/16 | x 2 3/16 |
| OT370 | .002 | 1600 | 5/8 | x 1 3/8 |
| OT377 | .003 | 1600 | 5/8 | x 1 3/8 |
| OT371 | .005 | 1600 | 5/8 | x 1 3/8 |
| OT372 | .008 | 1600 | 5/8 | x 1 3/8 |
| OT373 | .01 | 1600 | 11/16 | x 1 3/8 |
| OT375 | .015 | 1600 | 11/16 | x 1 11/16 |
| OT376 | .02 | 1600 | 11/16 | x 1 11/16 |
| OT378 | .03 | 1600 | 11/16 | x 2 3/16 |
| OT379 | .04 | 1600 | 11/16 | x 2 3/16 |
| OT380 | .05 | 1600 | 11/16 | x 2 7/16 |
| OT458 | .0025 | 2000 | 11/16 | x 1 3/8 |
| OT459 | .005 | 2000 | 11/16 | x 1 11/16 |
| OT460 | .0075 | 2000 | 11/16 | x 1 11/16 |
| OT461 | .01 | 2000 | 11/16 | x 1 11/16 |
| OT462 | .0125 | 2000 | 11/16 | x 1 15/16 |
| OT463 | .015 | 2000 | 11/16 | x 1 5/16 |
| OT484 | .02 | 2000 | 13/16 | x 2 1/8 |
| OT465 | .03 | 2000 | 13/16 | x 2 1/8 |
| OT466 | .04 | 2000 | 13/16 | x 2 5/8 |
| OT467 | .05 | 2000 | 13/16 | x 2 5/8 |

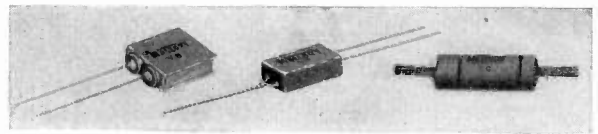


Fig. 1

Fig. 2

Fig. 3

Vibrator Buffer Capacitors

APPLICATION—Intended for replacement of original vibrator buffer and hash suppressor capacitors of similar design.

DESCRIPTION—Type VB is oil impregnated and housed in small rectangular metal case. Section is insulated from case. Type VD is dual wax impregnated unit in small rectangular waxed cardboard case. Type VO is wax impregnated and filled in oval waxed tube.

TERMINALS—VB has two bare tinned copper leads out one end. VD has two bare tinned copper leads out one end and one similar common lead out the other end. VO has heavy copper braid at each end.

MOUNTING—In recess or clamp used in the original equipment.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size* | | | Fig. No. |
|------------------|-----------|------------------|-------|-------|----------|----------|
| | | | W | L | H | |
| VB470 | .0075 | 1600 | 5/16 | x 5/8 | x 7/8 | 1 |
| VB471 | .01 | 1600 | 5/16 | x 5/8 | x 7/8 | 1 |
| VD491 | .0008 | 1600 | 5/16 | x 5/8 | x 1 1/16 | 2 |
| | .0008 | | | | | |
| VO480 | .5 | 120 | 7/16 | x 3/4 | x 2 1/2 | 3 |

*H—Height; W—Width; L—Length.



Miniature Metal Tubular Capacitors

APPLICATION—For hearing aid, personal radio, and other uses where very small size tubulars are desirable.

DESCRIPTION—Oil impregnated tubular capacitor in minute hermetically sealed metal tubes with insulating sleeve.

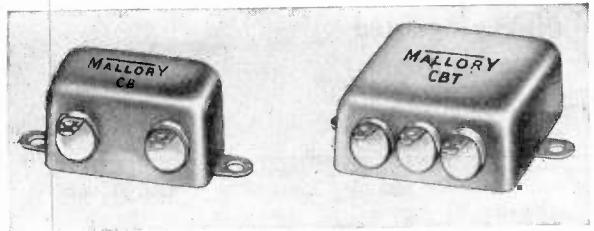
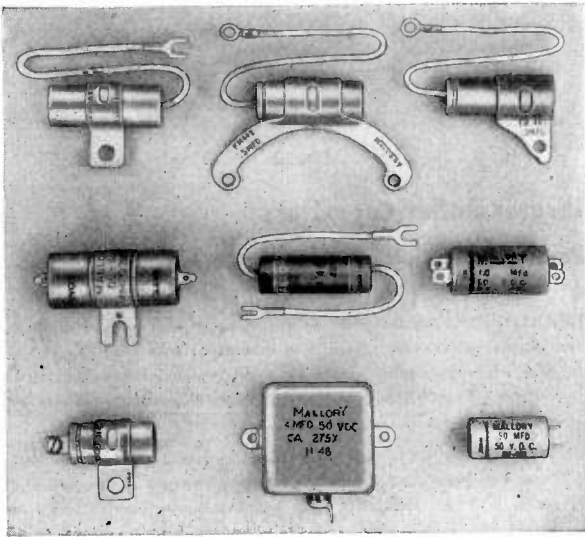
TERMINALS—Two bare tinned copper leads, one at each end.

MOUNTING—By means of its own leads.

PACKAGING—Ten to a display carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size | |
|------------------|-----------|------------------|--------|----------|
| | | | Dia. | Length |
| MT105 | .001 | 100 | 9/32 | x 1/2 |
| MT107 | .002 | 100 | 9/32 | x 1/2 |
| MT115 | .005 | 100 | 9/32 | x 1/2 |
| MT125 | .01 | 100 | 2 1/64 | x 1/2 |
| MT127 | .02 | 100 | 2 1/64 | x 1 1/16 |
| MT135 | .05 | 100 | 2 1/64 | x 1 1/16 |
| MT145 | .1 | 100 | 2 1/64 | x 1 3/4 |
| MT605 | .001 | 600 | 9/32 | x 1 3/16 |
| MT607 | .002 | 600 | 9/32 | x 1 5/16 |
| MT615 | .005 | 600 | 9/32 | x 1 5/16 |
| MT625 | .01 | 600 | 2 1/64 | x 1 9/16 |

MALLORY AUTOMOTIVE NOISE SUPPRESSION CAPACITORS



Automotive Noise Suppression Capacitors

APPLICATION—For suppressing radio interference emanating from auto generators, oil gauges, ammeters, and other automotive, aircraft, or marine equipment.

AM—For ammeter and gauge suppression.

FM—For Ford generator suppression.

DL—For domelight suppression.

RF—For vibrator hash suppression.

CA—For general suppression in aircraft and marine application.

DESCRIPTION—Wax impregnated cartridges assembled in various style housings, as pictured. Type AG is round type with flexible lead, well protected from moisture, but not hermetically sealed. Type AS is hermetically sealed, provides low impedance, and is ideal for extreme climatic conditions.

TERMINALS—Various, as pictured.

MOUNTING—Types AM 454 and RF 481 are held in place by the connecting wires or with TH clips. All others have own self-contained mounting features.

PACKAGING—Individual display cartons.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size Dia. Length |
|------------------|-----------|------------------|------------------|
| AG442* | .05 | 100 | 3/8 x 1 1/4 |
| AG443 | .05 | 100 | 7/16 x 1 3/16 |
| AG444 | .25 | 200 | 3/8 x 1 3/4 |
| AG450 | .5-.5 | 100 | 7/8 x 2 |
| AG451 | .5 | 200 | 3/4 x 2 |
| AG452 | 1.0 | 200 | 1 x 2 3/16 |
| AG453† | .5 | 200 | 3/4 x 2 |
| AS125 | .01 | 100 | .675 x 1 5/16 |
| AS145 | .1 | 100 | .675 x 1 3/8 |
| AS165 | .25 | 100 | 3/4 x 1 1/2 |
| AS185 | .5 | 100 | 1 x 1 3/8 |
| AS525 | .01 | 500 AC-DC | .675 x 1 |
| AS545 | .1 | 500 AC-DC | 1 x 1 1/2 |
| AS565 | .25 | 500 AC-DC | 1 x 2 1/2 |
| AM454 | .5 | 200 | 1 1/16 x 2 |
| FM441 | .5 | 100 | .675 x 1 7/8 |
| FM442 | .5 | 160 | .675 x 1 3/8 |
| DL445 | .4 | 200 | 1 x 2 3/8 |
| RF480 | .5 | 100 | 1 3/16 x 1 5/16 |
| RF481 | .5 | 50 | 3/4 x 1 3/8 |
| RF482 | 1.0 | 50 | 1 5/16 x 1 5/8 |
| CA275X | 4.0 | 50 | 2 x 2 x 1 |

*For Midget Aircraft Motors

†Has shielded lead

Steel Cased Oil Filled Capacitors

APPLICATION—For general use in aircraft, marine, geophysical and industrial electronic equipment where extreme dependability under severe conditions is desired.

DESCRIPTION—Oil impregnated single, dual, and triple section units housed in rugged, hermetically sealed, hot-tinned steel cases.

TERMINALS—Single section has two terminals. Dual section units have three terminals with left terminal common, and both are internally insulated from case. Triple units have three terminals with common grounded to case. All terminals protrude in a row on one long side of case.

MOUNTING—By means of flanges at each end.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size* | | | |
|------------------|-----------|------------------|-------|---------|---------|---------|
| | | | W | L | H | X |
| CB403 | .25 | 400 | 7/8 | 1 1/4 | x 3/4 | x 2 1/8 |
| CB404 | .5 | 400 | 1 | x 1 3/4 | x 7/8 | x 2 1/8 |
| CB405 | 1.0 | 400 | 1 3/4 | x 2 | x 3/4 | x 2 3/8 |
| CB406 | 2.0 | 400 | 2 | x 2 | x 1 1/8 | x 2 3/8 |
| CB602 | .1 | 600 | 7/8 | x 1 3/4 | x 3/4 | x 2 1/8 |
| CB603 | .25 | 600 | 1 | x 1 3/4 | x 3/4 | x 2 1/8 |
| CB604 | .5 | 600 | 1 1/4 | x 1 3/4 | x 7/8 | x 2 1/8 |
| CB605 | 1.0 | 600 | 1 3/4 | x 2 | x 7/8 | x 2 3/8 |
| CB1002 | .1 | 1000 | 7/8 | x 1 3/4 | x 3/4 | x 2 1/8 |
| CB1003 | .25 | 1000 | 1 1/4 | x 1 3/4 | x 3/4 | x 2 1/8 |
| CB1004 | .5 | 1000 | 1 3/4 | x 2 | x 7/8 | x 2 3/8 |
| CBD403 | .25-.25 | 400 | 1 1/4 | x 1 3/4 | x 3/4 | x 2 1/8 |
| CBD404 | .5-.5 | 400 | 1 3/4 | x 2 | x 3/4 | x 2 3/8 |
| CBD602 | .1-.1 | 600 | 7/8 | x 1 3/4 | x 3/4 | x 2 1/8 |
| CBT403 | 3X .25 | 400 | 1 3/4 | x 2 | x 3/4 | x 2 3/8 |
| CBT404 | 3X .5 | 400 | 1 3/4 | x 2 | x 1 | x 2 3/8 |
| CBT602 | 3X .1 | 600 | 1 | x 1 3/4 | x 7/8 | x 2 1/8 |

*W—Width; L—Length; H—Height; X—Mounting Centers.

Uncased Wax Capacitors

APPLICATION—Designed for replacement of defective sections in large paper capacitor blocks or other applications where sealing pitch is applied for final seal.

DESCRIPTION—Wax impregnated section wrapped in varnish paper for moisture protection until finally potted when installed.

TERMINALS—Two flexible insulated leads out one end.

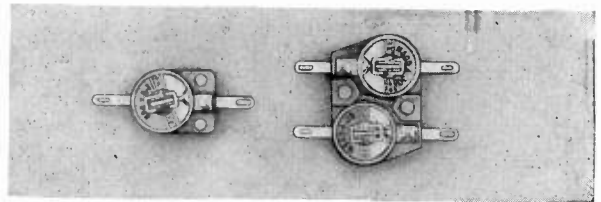
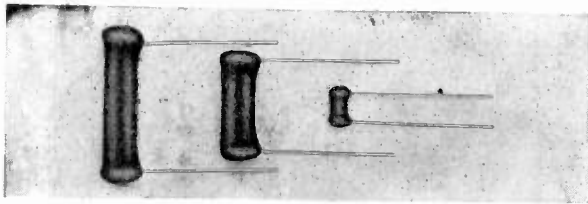
MOUNTING—Held in place by pouring with hot pitch.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size* | | |
|------------------|-----------|------------------|--------|----------|---------|
| | | | W | L | H |
| UB351 | 1 | 200 | 1/2 | x 1 3/8 | x 2 1/8 |
| UB352 | 2 | 200 | 3/4 | x 1 9/16 | x 2 1/8 |
| UB353 | 4 | 200 | 1 1/16 | x 2 1/16 | x 2 1/8 |
| UB354 | 1 | 400 | 9/16 | x 1 9/16 | x 2 1/8 |
| UB355 | 2 | 400 | 1 | x 1 3/4 | x 2 1/8 |
| UB356 | 4 | 400 | 1 5/16 | x 1 9/8 | x 4 3/8 |
| UB357 | .5 | 600 | 1/2 | x 1 3/8 | x 2 1/8 |
| UB358 | 1 | 600 | 7/8 | x 1 9/16 | x 2 1/8 |
| UB359 | 2 | 600 | 1 1/8 | x 2 1/16 | x 2 1/8 |
| UB364 | 4 | 600 | 1 1/16 | x 1 7/8 | x 4 1/4 |
| UB362 | 1 | 1000 | 5/8 | x 1 9/16 | x 4 3/8 |
| UB363 | 2 | 1000 | 1 1/8 | x 1 7/8 | x 4 3/8 |

*W—Width; L—Length; H—Height.

MALLORY CERAMIC CAPACITORS



Ceramic Capacitors

APPLICATION—The small size and rugged construction of these capacitors make them ideal for by-passing, coupling, and other AM and FM-TV applications. The general purpose types "UC" may be used in all receiver applications except frequency determining circuits. They are particularly suitable for general replacement of molded mica and paper tubular capacitors. The zero temperature coefficient types "ZT" are ideally suited for use in precision radio and electronic circuits where a truly stable capacitor unaffected by temperature change is required. Negative temperature coefficient types "NT" are designed for use in precision radio and electronic circuits requiring a negative temperature coefficient of capacity.

DESCRIPTION—All Mallory ceramic capacitors are of low-loss ceramic construction, having a dipped phenolic coating for maximum protection from moisture. Their small physical size makes them ideal for replacement purposes when space is at a premium. Type "ZT," while similar in construction to the general purpose types "UC" have the important additional characteristic that their nominal capacity rating is substantially unaffected by a change in temperature of from -55°C through 85°C.

Type "NT" have a negative temperature coefficient of capacity of 750 parts/million/°C. temperature change. As a matter of convenience, they are rated in micro-microfarads at a temperature of 25°C. A rise in ambient temperature above 25°C will result in a proportional decrease of rated capacity. With lowering of temperature an automatic increase of capacity will be observed. In practical applications these capacitors should be mounted adjacent to the circuit components which require capacity compensation.

TERMINALS—One radial bare tinned copper lead 1/4" long at each end.

MOUNTING—By means of their wire leads.

PACKAGING—Five capacitors per display carton.

Voltage Rating—500 V DC

| Capacity (mfd) | General Purpose ±20% Tolerance | | Zero Temperature Coefficient ±10% Tolerance | | Negative Temperature Coefficient 750 Parts/Million/°C ±10% Tolerance | |
|----------------|--------------------------------|-------|---|-------|--|-------|
| | Cat. No. | Size* | Cat. No. | Size* | Cat. No. | Size* |
| 3 | | | ZT-553 | 1 | | |
| 5 | | | ZT-555 | 1 | NT-555 | 1 |
| 10 | UC-541 | 1 | ZT-541 | 1 | NT-541 | 1 |
| 15 | UC-5415 | 1 | | | | |
| 20 | | | ZT-542 | 1 | | |
| 25 | UC-5425 | 1 | ZT-5425 | 2 | | |
| 33 | | | ZT-5433 | 2 | | |
| 47 | | | | | NT-5447 | 2 |
| 50 | UC-545 | 1 | ZT-545 | 3 | | |
| 75 | UC-5475 | 1 | ZT-5475 | 3 | NT-5475 | 2 |
| 100 | UC-531 | 1 | ZT-531 | 3 | NT-531 | 2 |
| 150 | UC-5315 | 1 | | | | |
| 200 | UC-532 | 1 | | | | |
| 250 | UC-5325 | 1 | | | | |
| 300 | UC-533 | 1 | | | | |
| 500 | UC-535 | 1 | | | | |
| 750 | UC-5375 | 1 | | | | |
| 1000 | UC-521 | 2 | | | | |
| 1500 | UC-5215 | 2 | | | | |
| 2000 | UC-522 | 3 | | | | |
| 2500 | UC-5225 | 3 | | | | |
| 3000 | UC-523 | 3 | | | | |
| 5000 | UC-525 | 3 | | | | |

*SIZE CHART

| Sizes | Diameter | Length |
|-------|----------|--------|
| 1 | .240" | .460" |
| 2 | .240" | .710" |
| 3 | .315" | 1.250" |

Ceramic Trimmer Capacitors

APPLICATION—Their small size and stable electrical characteristics make these capacitors ideal for use in high frequency FM-TV circuits.

DESCRIPTION—Each capacitor consists of fired silver electrodes on a ceramic rotor and base. They have a 360° rotor with a substantially constant capacity change and are completely sealed from dust and dirt. Single or dual units are available.

TERMINALS—Solder lug type at each end of capacitor.

MOUNTING—Two clearance holes are provided in each capacitor for screw mounting.

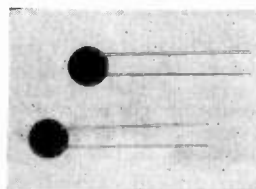
PACKAGING—One capacitor per display carton.

Single Units—Overall size 2 1/2" x 2 7/32" x 3/8" thick.
Voltage Rating—500 VDC

| Catalog No. | Capacity Range (mfd) | Temperature Coefficient |
|-------------|----------------------|----------------------------|
| ST-5515-Z | 1.5 to 7 | Zero |
| ST-553-Z | 3 to 12 | Zero |
| ST-554-N | 4 to 30 | Neg. 500 Parts/Million/°C. |
| ST-557-N | 7 to 45 | Neg. 500 Parts/Million/°C. |

Dual Units—Overall size 1 1/4" x 7/8" x 3/8" thick.
Voltage Rating—500 VDC

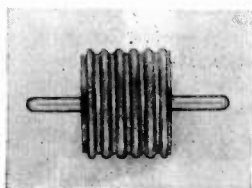
| Catalog No. | Capacity Range Each Section (mfd) | Temperature Coefficient |
|-------------|-----------------------------------|----------------------------|
| DT-5515-Z | 1.5 to 7 | Zero |
| DT-553-Z | 3 to 12 | Zero |
| DT-554-N | 4 to 30 | Neg. 500 Parts/Million/°C. |
| DT-557-N | 7 to 45 | Neg. 500 Parts/Million/°C. |



Disk Ceramic Capacitors

Because of their small physical size, rugged construction, and excellent electrical characteristics these unique capacitors are particularly suitable for replacement of molded mica and paper tubular units. They have a dipped phenolic coating for maximum protection from moisture. Equipped with radial bare tinned copper wire leads they are easily and quickly mounted. Ten capacitors are packaged in each display carton.

| Catalog Number | Capacity (mfd) | DC Working Volts | Size Dia. Thickness | Length of Leads |
|----------------|----------------|------------------|---------------------|-----------------|
| DC-525 | .005 | 500 | 1 1/2 x 1/8 | 1 3/4" |
| DC-511 | .01 | 500 | 3/4 x 1/8 | 2" |



High Voltage Ceramic Capacitors

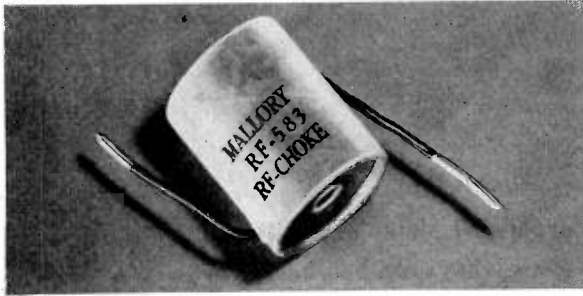
With a rating of 500 micro-microfarads at 15,000 volts, this capacitor may be used as an exact replacement in the high voltage power circuit in many TV sets. A rigid case and built-in corona shield give an added safety factor. The capacitor is supplied with No. 6 copper terminals 1/2" long. Interconnecting

leads may be soldered or clipped to these terminals without damage to the capacitor. Overall dimensions are 1 1/8" diameter by 3/8" long excluding terminals. Each capacitor is packaged in an individual display carton.

Catalog number HV-15035.

Mallory Page 11 (See Mallory Page 2 for List Prices)

MALLORY CHOKE COILS AND NOISE FILTERS



Radio Frequency Choke Coils

APPLICATION—General purpose radio frequency choke coils for all circuits.

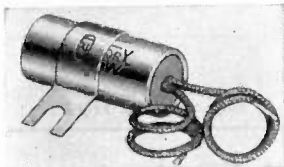
DESCRIPTION—Hour-glass wound for low distributed capacity and housed in compact insulating tubes.

TERMINALS—Two bare tinned copper wire leads, one at each end.

MOUNTING—By means of its leads or with TH clips, as described on hardware page. Also may be mounted by means of a stud through a hole provided through the core of the choke coil.

PACKAGING—Individual display carton.

| Mallory Cat. No. | Turns | Wire | Inductance Microhenries | Size Dia. Length |
|------------------|-------|------|-------------------------|------------------|
| RF581 | 90 | 16 | 430 | 1 x 1½ |
| RF582 | 55 | 16 | 260 | 1 x 1¾ |
| RF583 | 55 | 12 | 25-30 | 1½ x 1½ |



Motor Brush Noise Filters (Type W)

APPLICATION—Type W filters, while primarily designed for installation on motor brushes, may be used wherever a permanently installed dual capacity filter is desired. Where un-grounded motor frames or appliance cases are involved, type WSP is recommended for elimination of possible shock hazard.

DESCRIPTION—Dual wax impregnated capacitors housed in sealed metal tubes and specially designed to have low RF impedance. Case is grounded to common terminal of the included sections except in SP type where a shock limiting capacitor is employed between the common lead and case.

TERMINALS—Two flexible covered leads, case common ground.

MOUNTING—By means of attached tangential strap.

PACKAGING—Individual display cartons.

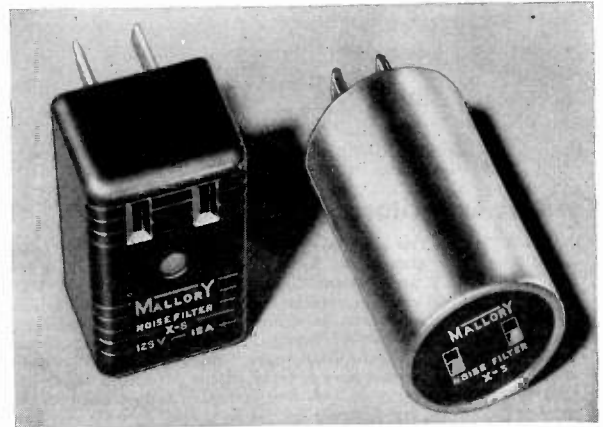
Type W7—115-220 Volts AC-DC for Light Interference
Size ¾" x 2"

Type W9—115-220 Volts AC-DC for Medium Interference
Size 1" x 3"

Type W11—115-220 Volts AC-DC for Severe Interference
Size 1¾" x 3"

Type W7SP—115-220 Volts AC-DC for Light Interference
Size ¾" x 2"

Type W9SP—115-220 Volts AC-DC for Medium Interference
Size 1" x 3"



Appliance Noise Filters (Type X)

APPLICATION—For use with plug-in type appliances where straight capacity type filters are sufficient to produce desired noise suppression.

DESCRIPTION—Single and dual type capacitor filters in round metal housings designed for insertion between appliance cord and wall outlet. X-6 is furnished in attractive compact brown plastic case.

TERMINALS—Male prongs for insertion into wall outlet and slots for appliance plug.

MOUNTING—Self-supporting by its prongs.

PACKAGING—Individual display carton.

Type X1 is for relatively slight interference. Size 1¾" x 1¾", rated 110 volts, 5 amperes.

Type X3 is a capacitor type filter having greater efficiency than Type X1. Size 1¾" x 2¼", rated 110-220 volts, 5 amperes.

Type X5 is a triple capacity filter with provision for return lead to appliance. Special safety feature prevents possibility of shock and makes this unit ideal for use with vacuum cleaners, food mixers, etc. Size 1¾" x 2¼", rated 110-220 volts, 5 amperes, and equipped with binding post for connection to appliance or motor frame.

Type X6 for medium interference. Furnished in an attractive, compact, rectangular brown plastic case. Size 1¼" x 2¼" x 1". Rated at 110 volts AC-DC, 5 amperes.

Type X6D same as X6 except packaged on an attractive counter display card, six to a card.

IMPORTANT

General Noise Elimination Information

● All radio noise suppression devices should be applied at the source of the noise. Filters inserted in radio receiver cords are usually ineffective.

The filters described herein are, therefore, designed for insertion at the offending device. They incorporate many improvements accomplished through the extensive research and war production experience of the P. R. Mallory Company. While there will be some exceptions, most of the types of interference found in the home can be effectively reduced by the Mallory filters described. Unusual cases should be referred to the Mallory Engineering Department for advice.

Each filter is supplied with a complete instruction sheet for proper installation.

Mallory Page 12 (See Mallory Page 2 for List Prices)

(See Pages P-25 and P-26 for Mallory List Prices)

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MALLORY NOISE SUPPRESSION FILTERS



Appliance Noise Filters (Type Z)

APPLICATION—For use with plug-in type appliances where inductance-capacity continuation filters are necessary to accomplish desired noise suppression.

DESCRIPTION—Single and dual inductance-capacity filters housed in round metal containers designed for insertion between appliance cord and wall outlet.

TERMINALS—Male prongs and female receptacles. Types Z4, 6 and 8 have extra provision for return lead to ground or appliance frame.

MOUNTING—Self-supported by its prongs.

PACKAGING—Individual display carton.

Type Z2 is a capacitor-inductance filter for medium interference. Use with electric razor or small appliances. Most effective on grounded line systems where reversal of plugs will affect operation. Size 1 3/8" x 2 3/4", rated 110-220 volts, 3 amperes.

Type Z4 is a dual inductance-capacity filter for severe interference on appliances where a return lead from the filter is inconvenient. Ideal for electric razor, vibrators and household appliances. Size 1 3/8" x 3", rated 110-220 volts, 3 amperes.

Type Z6 is a dual inductance-capacity filter with provision for return lead to ground. Recommended for suppressing severe interference. Size 1 1/8" x 3 3/8". Rated 110-220 volts, 3 amperes.

Type Z8 is same as Z6 but with provision for return wire connection to motor or appliance frame rather than ground. An efficient filter equivalent to box type within 3 ampere rating.

Heavy-Duty Appliance Noise Filters (Type LC)



APPLICATION—For portable plug-in applications where severe interference is involved and ampere rating exceeds that of type Z.

DESCRIPTION—Combination inductance-capacity filter housed in rectangular metal case.

TERMINALS—Ample line cord with male plug for insertion in wall outlet. Female receptacle for appliance cord plug. Binding post for return wire lead to appliance or motor frame.

MOUNTING—Two metal flanges (when permanent mounting is desired).

PACKAGING—Individual carton.

Type LC5 rated 115-220 volts AC-DC, 5 amperes.

Type LC10 rated 115-220 volts AC-DC, 10 amperes.



Fluorescent Lighting Noise Filter

APPLICATION—Specially designed for fluorescent lights where permanent installation on or in the light fixture is desired.

DESCRIPTION—Dual inductance-capacity filter housed in round metal tubes. Contains shock limiting capacitor.

TERMINALS—Flexible covered wire leads, two at one end for input—three at other end for output of which the red lead is for grounding to light frame.

MOUNTING—By means of attached tangential strap.

PACKAGING—Individual display carton.

Type Z8A, 115-220 volts, AC-DC, 3 amperes. For fluorescent lights.

Heavy-Duty Appliance Noise Filters (Type LB)



APPLICATION—For permanent installation wherever heavy-duty filters are required, such as outdoor signs, large motors, or at meter board.

DESCRIPTION—Heavy-duty choke-capacity combination filters sealed in rectangular case and housed in standard heavy gauge metal cut-out boxes.

TERMINALS—Heavy, flexible insulated wire leads for splicing with house or motor wiring.

MOUNTING—Mounts by means of screws through bottom of cut-out box.

PACKAGING—Individual carton.

| Type | Rating | Size |
|-------|--------------|----------------|
| LB-10 | 220V-10 Amp. | 6" x 6" x 4" |
| LB-20 | 220V-20 Amp. | 10" x 10" x 6" |
| LB-40 | 220V-40 Amp. | 12" x 10" x 6" |

Mallory Page 13 (See Mallory Page 2 for List Prices)

MALLORY MICA CAPACITORS



Mica Receiver Capacitors

APPLICATION—Designed primarily for radio receiving applications, they may be used in television and other electronic circuits within their voltage range.

DESCRIPTION—Made with carefully selected mica and foil and housed in high quality compact rectangular bakelite case with standard RMA color coding for identification.

TERMINALS—Bare tinned copper leads.

MOUNTING—By means of its leads.

PACKAGING—5 or 10 capacitors per display carton only.

Case Size— $1\frac{3}{16}'' \times 1\frac{3}{16}'' \times \frac{5}{16}''$ with $1\frac{1}{8}''$ Wire Leads
Voltage Rating = 500 VDC Working — 1000 VDC Test

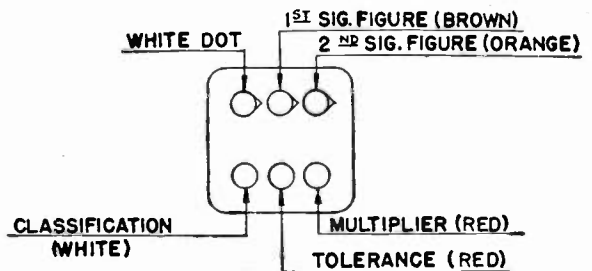
| Capacity Mfd. | Standard Mica ±20% Cap. Tolerance | Silver Mica ±10% Cap. Tolerance | Silver Mica ±2% Cap. Tolerance |
|---------------|---|---------------------------------------|--------------------------------------|
| | Mallory Cat. No. | Mallory Cat. No. | Mallory Cat. No. |
| .0005 | MC445 | MCB445 | MCE445 |
| .0008 | MC451 | MCB451 | MCE451 |
| .001 | | MCB455 | MCE455 |
| .0015 | MC456 | MCB456 | MCE456 |
| .002 | MC457 | MCB457 | MCE457 |
| .0025 | MC460 | MCB460 | MCE460 |
| .003 | MC461 | MCB461 | MCE461 |
| .004 | MC463 | MCB463 | MCE463 |
| .005 | MC465 | MCB465 | MCE465 |
| .006 | MC467 | MCB467 | MCE467 |
| .007 | MC469 | MCB469 | MCE469 |
| .008 | MC471 | MCB471 | MCE471 |
| .01 | MC475 | MCB475 | MCE475 |

New RMA Color Code

● The new RMA color code, shown below, permits positive identification of the mica capacitors listed.

Reading across the top from left to right with the arrow pointing to the right, the first dot shall always be white to indicate standard RMA molded mica capacitor. The second and third dots become the first two significant figures in the capacitance. The second row is read from right to left. The lower right dot should be the multiplier. The lower second dot indicates the tolerance and the lower left dot indicates the class.

The key to color significance is as follows:



Example shown above = 1300 mmfd. ±2%, 500 V.W.

Note: When any Mallory mica capacitor has a white dot in the upper left hand corner (when the arrows point to the right) that capacitor is coded under the new RMA color code, as shown above. Any other color in the upper left hand corner indicates the old color code, which may be found in Catalogue No. 467-A.

Case Size— $\frac{7}{16}'' \times 2\frac{5}{32}'' \times \frac{7}{32}''$ with $1\frac{1}{8}''$ Wire Leads
Voltage Rating = 500 VDC Working — 1000 VDC Test

| Capacity Mfd. | Standard Mica ±20% Cap. Tolerance | Silver Mica ±10% Cap. Tolerance | Silver Mica ±2% Cap. Tolerance |
|---------------|---|---------------------------------------|--------------------------------------|
| | Mallory Cat. No. | Mallory Cat. No. | Mallory Cat. No. |
| .000005 | MC205 | MCB205 | |
| .00001 | MC215 | MCB215 | MCE215 |
| .000025 | MC220 | MCB220 | MCE220 |
| .00004 | MC223 | MCB223 | MCE223 |
| .00005 | MC225 | MCB225 | MCE225 |
| .000075 | MC230 | MCB230 | MCE230 |
| .0001 | MC235 | MCB235 | MCE235 |
| .00015 | MC236 | MCB236 | MCE236 |
| .0002 | MC237 | MCB237 | MCE237 |
| .00025 | MC240 | MCB240 | MCE240 |
| .0003 | MC241 | MCB241 | MCE241 |
| .0004 | MC243 | MCB243 | MCE243 |
| .0005 | MC245 | MCB245 | MCE245 |
| .0008 | MC251 | MCB251 | MCE251 |
| .001 | MC255 | MCB255 | MCE255 |
| .0015 | MC256 | | |

**DON'T MISS THE
MALLORY CONTROL DEALS**

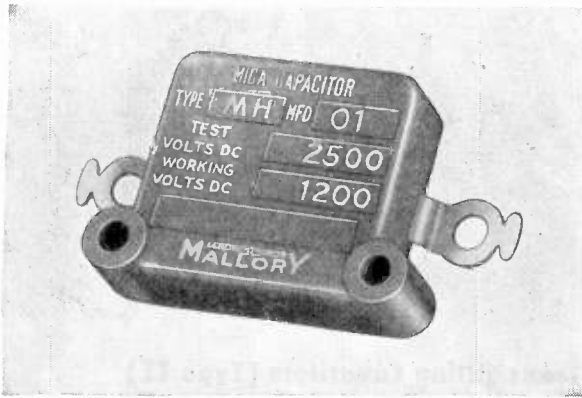
Turn to Page 3, Mallory Controls, for full information.

| Color | Sig. Fig. | Mult. | Tol. | Class.* |
|--------|-----------|-------|------|---------|
| Black | 0 | 1 | ±20% | A |
| Brown | 1 | 10 | | B |
| Red | 2 | 100 | ±2% | C |
| Orange | 3 | 1000 | ±3% | D |
| Yellow | 4 | 10000 | | |
| Green | 5 | | ±5% | |
| Blue | 6 | | | |
| Violet | 7 | | | |
| Grey | 8 | | | I |
| White | 9 | | | J |
| Gold | | 0.1 | | |
| Silver | | 0.01 | ±10% | |

*Denotes various electrical characteristics.

Voltage ratings vary with capacitance as shown in RMA Specification—April, 1946.

MALLORY MICA CAPACITORS



Mica Transmitting Capacitors (Type MH)

APPLICATION—For use in transmitting and power amplifier circuits where voltage exceeds the 500-volt rating of type MC.

DESCRIPTION—Made with accurately gauged high-quality India mica in bakelite molded case providing insulated mounting. Capacity tolerance $\pm 20\%$. Only size variation for various ratings is the thickness as shown in the chart.

TERMINALS—Short, heavy tinned copper solder lugs for minimum RF and contact resistance.

MOUNTING—Insulated mounting by means of screws through holes molded in case.

PACKAGING—Individual display carton.

Mica Transmitting Capacitors (Type MX)

APPLICATION—Ideal for amateur transmitting equipment. They may also be used in coupling, tank, and bypass circuits at radio frequencies within their rating. (Note that the maximum amperes for several radio frequencies are given in the chart. The operating current should be kept within these limits.)

DESCRIPTION—Heavy-duty mica construction, supplied in attractive rectangular porcelain cases.

TERMINALS—Two screw type with complete washer and nut assembly.

MOUNTING—Two flanges with ample holes for machine screw mounting.

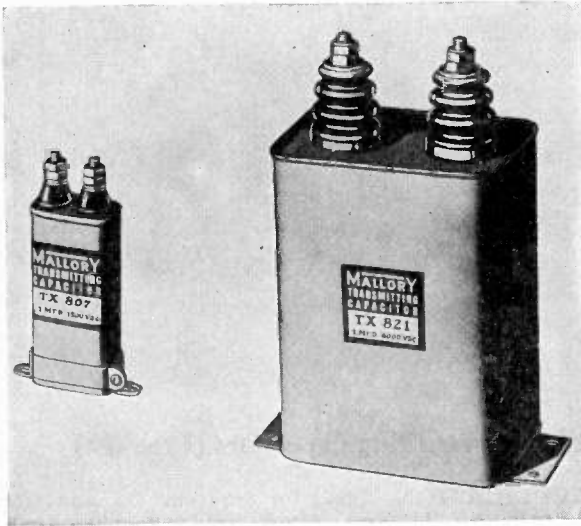
PACKAGING—Individual display carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Test Volts DC | Thickness |
|------------------|-----------|------------------|---------------|-----------------|
| MH535 | .0001 | 600 | 1000 | $2\frac{3}{64}$ |
| MH635 | .0001 | 1200 | 2500 | $2\frac{3}{64}$ |
| MH735 | .0001 | 2500 | 5000 | $2\frac{3}{64}$ |
| MH545 | .0005 | 600 | 1000 | $2\frac{3}{64}$ |
| MH645 | .0005 | 1200 | 2500 | $2\frac{3}{64}$ |
| MH745 | .0005 | 2500 | 5000 | $2\frac{3}{64}$ |
| MH555 | .001 | 600 | 1000 | $2\frac{3}{64}$ |
| MH655 | .001 | 1200 | 2500 | $2\frac{3}{64}$ |
| MH755 | .001 | 2500 | 5000 | $2\frac{3}{64}$ |
| MH557 | .002 | 600 | 1000 | $2\frac{3}{64}$ |
| MH657 | .002 | 1200 | 2500 | $2\frac{3}{64}$ |
| MH757 | .002 | 2500 | 5000 | $2\frac{3}{64}$ |
| MH565 | .005 | 600 | 1000 | $2\frac{3}{64}$ |
| MH665 | .005 | 1200 | 2500 | $2\frac{3}{64}$ |
| MH765 | .005 | 2500 | 5000 | $2\frac{3}{64}$ |
| MH575 | .01 | 600 | 1000 | $2\frac{3}{64}$ |
| MH675 | .01 | 1200 | 2500 | $2\frac{3}{64}$ |
| MH577 | .02 | 600 | 1000 | $2\frac{3}{64}$ |

| Mallory Cat. No. | Cap. Mfd. | Test Volts DC | Max. Amps. | Freq. KC. |
|------------------|-----------|---------------|------------|-----------|
| MX855 | .001 | 12,500 | 9.0 | 15000 |
| | | | 10.0 | 7500 |
| | | | 11.0 | 3750 |
| | | | 12.0 | 1875 |
| MX857 | .002 | 12,500 | 9.0 | 15000 |
| | | | 12.0 | 7500 |
| | | | 13.0 | 3750 |
| | | | 15.0 | 1875 |
| MX865 | .005 | 10,000 | 10.0 | 15000 |
| | | | 13.0 | 7500 |
| | | | 14.0 | 3750 |
| | | | 15.0 | 1875 |
| MX875 | .01 | 7,000 | 10.0 | 15000 |
| | | | 13.0 | 7500 |
| | | | 15.0 | 3750 |
| | | | 15.0 | 1875 |
| MX877 | .02 | 3,500 | 10.0 | 15000 |
| | | | 13.0 | 7500 |
| | | | 17.0 | 3750 |
| | | | 17.0 | 1875 |
| MX885 | .05 | 3,500 | 11.0 | 15000 |
| | | | 14.0 | 7500 |
| | | | 16.0 | 3750 |
| | | | 18.0 | 1875 |
| MX895 | .1 | 2,000 | 11.0 | 15000 |
| | | | 14.0 | 7500 |
| | | | 16.0 | 3750 |
| | | | 18.0 | 1875 |

MALLORY
RADIO SERVICE ENCYCLOPEDIA
552 pages of replacement information
for all pre-war and post-war receivers

MALLORY OIL FILLED AND IMPREGNATED CAPACITORS



Transmitting Capacitors (Type TX)

APPLICATION—For radio, television, transmitting, and all circuits requiring high voltage capacitors.

DESCRIPTION—Compact rectangular oil filled capacitors of sturdy construction.

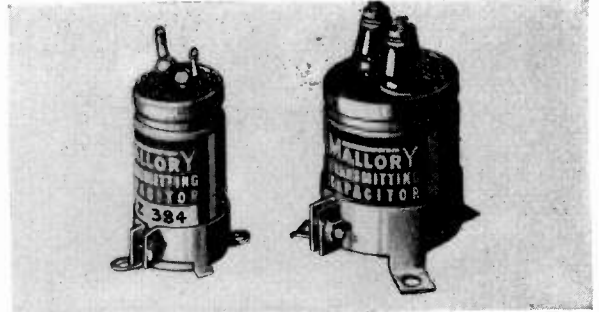
TERMINALS—Suitable standoff insulated terminals at one end to safely cover maximum voltage rating of each unit.

MOUNTING—Base dimensions less than 3½ x 5½, by rectangular clamp providing either upright or inverted position. Base sizes of 3½ x 5½ and above, by permanent flanges at the unit base.

PACKAGING—Individual carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size* | | |
|------------------|-----------|------------------|--------------|---|---|
| | | | W | L | H |
| TX801 | 1 | 600 | 1 x 1¾ x 2½ | | |
| TX802 | 2 | 600 | 1 x 1¾ x 2½ | | |
| TX803 | 4 | 600 | 1 x 1¾ x 4¼ | | |
| TX816 | 6 | 600 | 1¾ x 2½ x 4¾ | | |
| TX817 | 10 | 600 | 1¾ x 3¾ x 4¾ | | |
| TX822 | .5 | 1000 | 1 x 1¾ x 2½ | | |
| TX804 | 1 | 1000 | 1 x 1¾ x 2½ | | |
| TX805 | 2 | 1000 | 1 x 1¾ x 3¾ | | |
| TX806 | 4 | 1000 | 1¾ x 2½ x 4¾ | | |
| TX824 | 6 | 1000 | 1¾ x 3¾ x 4¾ | | |
| TX825 | 10 | 1000 | 1¾ x 3¾ x 4¾ | | |
| TX807 | 1 | 1500 | 1 x 1¾ x 4¼ | | |
| TX808 | 2 | 1500 | 1¾ x 2½ x 4¾ | | |
| TX809 | 4 | 1500 | 1½ x 3¾ x 4¾ | | |
| TX829 | 6 | 1500 | 1¾ x 3¾ x 4¾ | | |
| TX830 | 10 | 1500 | 3¾ x 3¾ x 4¾ | | |
| TX831 | .25 | 2000 | 1 x 1¾ x 2½ | | |
| TX832 | .5 | 2000 | 1 x 1¾ x 2½ | | |
| TX810 | 1 | 2000 | 1¾ x 2½ x 3¾ | | |
| TX811 | 2 | 2000 | 1¾ x 3¾ x 4¼ | | |
| TX823 | 4 | 2000 | 2¼ x 3¾ x 4¾ | | |
| TX833 | 6 | 2000 | 3¾ x 3¾ x 4¾ | | |
| TX834 | 10 | 2000 | 4¾ x 3¾ x 4¾ | | |
| TX812 | 1 | 2500 | 1¾ x 3¾ x 3¼ | | |
| TX813 | 2 | 2500 | 1¾ x 3¾ x 4¾ | | |
| TX835 | .1 | 3000 | 1¾ x 2½ x 2¾ | | |
| TX836 | .25 | 3000 | 1¾ x 2½ x 3¾ | | |
| TX837 | .5 | 3000 | 1¾ x 2½ x 4¾ | | |
| TX814 | 1 | 3000 | 1¾ x 3¾ x 4¾ | | |
| TX815 | 2 | 3000 | 3¾ x 3¾ x 4¾ | | |
| TX838 | 4 | 3000 | 4¾ x 3¾ x 5½ | | |
| TX839 | 1 | 4000 | 2¼ x 3¾ x 4¾ | | |
| TX827 | 2 | 4000 | 4¾ x 3¾ x 4¾ | | |
| TX828 | 4 | 4000 | 8¾ x 5½ x 3½ | | |
| TX818 | 1 | 5000 | 5½ x 3½ x 5¾ | | |
| TX819 | 2 | 5000 | 5½ x 3½ x 9 | | |
| TX820 | .5 | 6000 | 4¾ x 5½ x 3½ | | |
| TX821 | 1 | 6000 | 4¾ x 3¾ x 8 | | |

*W—Width; L—Length; H—Height.



Transmitting Capacitors (Type TZ)

APPLICATION—For filter and bypass circuits in power amplifiers, television and transmitting equipment where compact round can units are desired.

DESCRIPTION—Oil impregnated type capacitor furnished in round containers for upright or inverted mounting. All units internally insulated from case.

TERMINALS—The 1¾" diameter units have two solder lug terminals with ample insulation for the voltage ratings involved. The 2" diameter units have special standoff insulated terminals.

MOUNTING—Supplied with type VR bracket for inverted or upright mounting.

PACKAGING—Individual carton.

| Mallory Cat. No. | Cap. Mfd. | Working Volts DC | Size Dia. Height |
|------------------|-----------|------------------|------------------|
| TZ382 | 2.0 | 600 | 1¾ x 3¾ |
| TZ383 | 4.0 | 600 | 1¾ x 4¾ |
| TZ384 | 1.0 | 1000 | 1¾ x 2¾ |
| TZ385 | 2.0 | 1000 | 1¾ x 4¾ |
| TZ389 | 4.0 | 1000 | 2 x 4 |
| TZ386 | .5 | 1500 | 1¾ x 3¾ |
| TZ387 | 1.0 | 1500 | 1¾ x 4¾ |
| TZ388 | 2.0 | 1500 | 2 x 4 |
| TZ390 | 1.0 | 2000 | 2 x 3¼ |
| TZ391 | 2.0 | 2000 | 2 x 4½ |

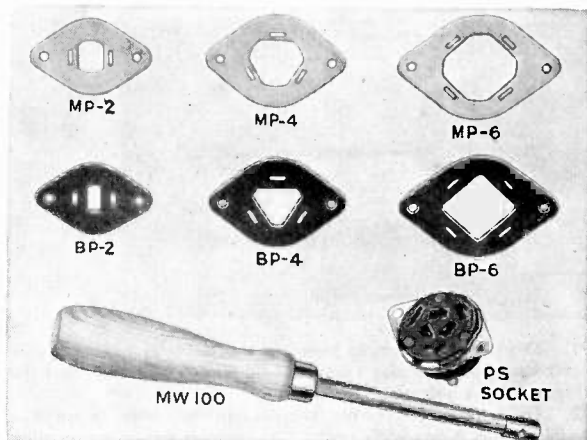
MALLORY TECHNICAL MANUAL

● This simply written, practical book bridges the gap between radio theory and practice. Designed for the radio serviceman, engineer, amateur or experimenter who wants the latest technical information . . . presented so that he can easily apply it to everyday problems. Contains page after page of information profusely illustrated. It's worth far more than its price.

MALLORY CAPACITOR HARDWARE

Type "MSU" Hardware

| Mallory Cat. No. | Description | Size |
|------------------|-------------|---------------|
| 115-1 | Top Cap | 1 3/8 |
| 116-1 | Top Cap | 2 |
| 118-1 | Bottom Cap | 1 3/8 |
| 119-1 | Bottom Cap | 2 |
| 121-1 | Bracket | 1 3/8 x 3 1/4 |
| 122-1 | Bracket | 1 3/8 x 4 1/4 |
| 123-1 | Bracket | 2 x 3 1/8 |
| 124-1 | Bracket | 2 x 4 1/8 |



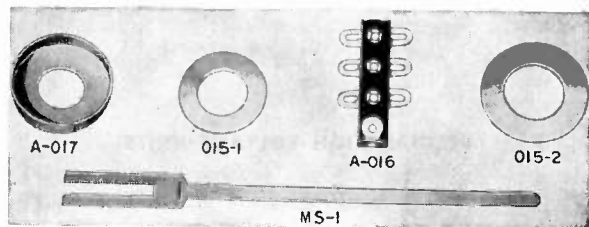
Type MP—Metal plates for grounded mounting of FP and WP capacitors.

Type BP—Bakelite plates for insulated mounting of FP and WP capacitors.

Type PS—Molded plastic sockets for plug-in mounting FP or WP capacitors. (Blank ear on capacitor should be removed to permit polarization with respect to socket.)

Type MW-100—Special wrench for twisting mounting ears on FP or WP capacitors.

| Cat. No. | Description | Size |
|----------|---|-------|
| MP-2 | Metal mounting wafer for FP | 3/4 |
| MP-4 | Metal mounting wafer for FP | 1 |
| MP-6 | Metal mounting wafer for FP | 1 3/8 |
| BP-2 | Bakelite mounting wafer for FP | 3/4 |
| BP-4 | Bakelite mounting wafer for FP | 1 |
| BP-4A | Bakelite mounting wafer for FP (To mount 1" FP in chassis punched for 1 3/8" wafer) | 1 |
| BP-6 | Bakelite mounting wafer for FP | 1 3/8 |
| PS-4 | Plug-in socket for FP | 1 |
| PS-6 | Plug-in socket for FP | 1 3/8 |
| PSC-4 | Retainer clamp for PS-4 socket | |
| MW-100 | Mounting wrench for FP | |



Type MS-1—Adjustable metal strap for horizontal mounting tubular types up to 1 3/8" diameter.

Type A-016—Terminal connector or anchor strap for general use where required.

Type 015-1—Washer for RS type 5/8" neck when used in over-size chassis hole.

Type 015-2—Washer for use with RS, RM or HS units where chassis hole is too large for regular mounting. Use two washers, one above and one below chassis.

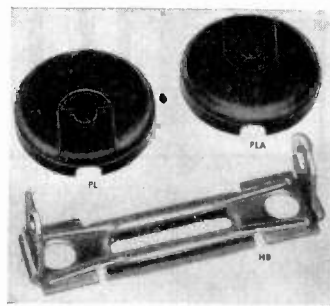
Type A-017—Special washer with turned-over edge for ring clamp mounting 1" RS type in 1 3/8" ring clamp.

| Cat. No. | Description | Size |
|----------|-------------------------------------|------|
| 015-1 | Washer for 5/8" neck in 7/8" hole | Var. |
| 015-2 | Washer for 3/4" neck in 1" hole | Var. |
| MS-1 | Adjustable mounting strap | Var. |
| A-016 | Terminal connector | Var. |
| A-017 | Washer for clamp mounting neck cans | Var. |

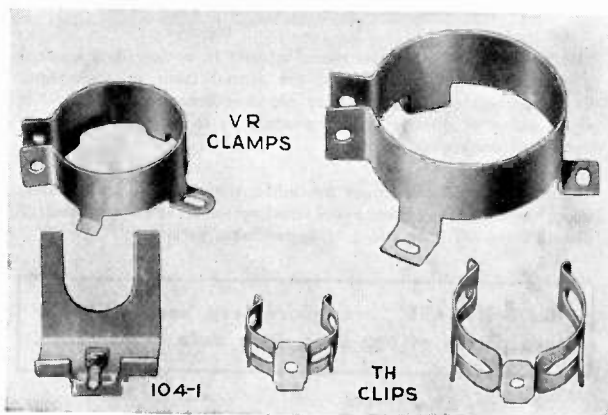
Type "P" Hardware

Types PL and PLA—Plastic end cap to protect terminals on HC or NP units when desired.

Type HB—Horizontal bracket for mounting HC and NP units. Using end cap type PL or PLA.



| Cat. No. | Description | Size |
|----------|------------------------------------|--------------------------|
| PL-3 | Plastic end cap | For "On Motor" mounting |
| PL-6 | Plastic end cap | For "On Motor" mounting |
| PL-8 | Plastic end cap | For "On Motor" mounting |
| PLA-3 | Plastic end cap | For "Off Motor" mounting |
| PLA-6 | Plastic end cap | For "Off Motor" mounting |
| PLA-8 | Plastic end cap | For "Off Motor" mounting |
| HB-4 | Horizontal bracket (plastic cases) | 3 3/8 |
| HB-8 | Horizontal bracket (plastic cases) | 4 3/8 |



Type TH—Special clips for horizontal mounting of any tubular or FP unit within the diameter range shown. Designed primarily to mount without tools under special chassis lances in original equipment, they may also be attached to chassis with 5-32 screw and nut in any 1/8" hole.

Type VR—Brackets for vertical mounting round units.

Type 104-1—Special bracket with spade bolt for mounting RS and RM units where spade bolt mounting was used.

| Cat. No. | Description | Size |
|----------|--|------------------|
| TH-13 | Spring clip for TC | 3/8 |
| TH-15 | Spring clip for TC | 1/2 to 9/16 |
| TH-17 | Spring clip for TC | 5/8 to 1 1/16 |
| TH-19 | Spring clip for TC and FP | 3/4 to 1 1/16 |
| TH-21 | Spring clip for TC | 7/8 to 1 5/16 |
| TH-23 | Spring clip for TC and FP | 1 to 1 1/16 |
| TH-25 | Spring clip for TC and FP | 1 1/8 to 1 7/16 |
| VR-1 | Clamp for vertical mounting | 1 to 1 1/16 |
| VR-3 | Clamp for vertical mounting | 1 1/8 to 1 7/16 |
| VR-4 | Clamp for vertical mounting | 1 1/2 to 1 7/16 |
| VR-6 | Clamp for vertical mounting | 1 3/4 to 1 15/16 |
| VR-8 | Clamp for vertical mounting | 2 to 2 1/16 |
| VR-10 | Clamp for vertical mounting | 2 1/2 |
| 104-1 | Spade bolt mounting for neck type cans | Variable |

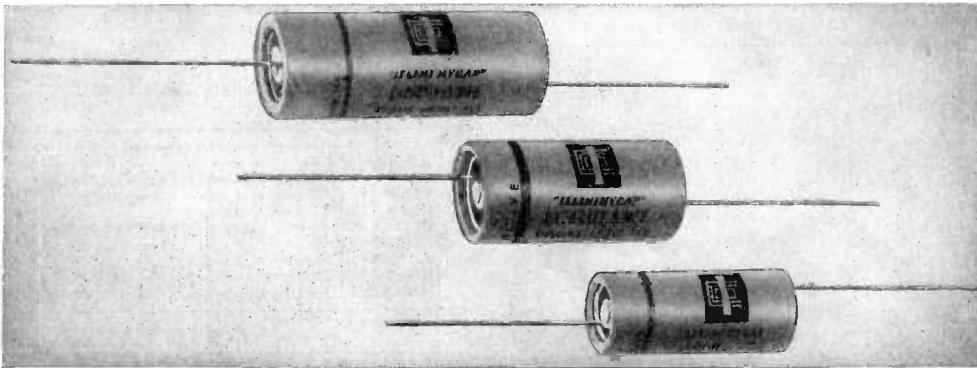
OE and CE Insulating Sleeve

| Cat. No. | Description | Size |
|----------|---------------------------------|-----------|
| OE-1 | Open end FP insulating sleeve | 3/4 x 2 |
| OE-3 | Open end FP insulating sleeve | 1 x 2 |
| OE-4 | Open end FP insulating sleeve | 1 x 3 |
| OE-5 | Open end FP insulating sleeve | 1 3/8 x 2 |
| OE-6 | Open end FP insulating sleeve | 1 3/8 x 3 |
| CE-1 | Closed end FP insulating sleeve | 3/4 x 2 |
| CE-3 | Closed end FP insulating sleeve | 1 x 2 |
| CE-4 | Closed end FP insulating sleeve | 1 x 3 |
| CE-5 | Closed end FP insulating sleeve | 1 3/8 x 2 |
| CE-6 | Closed end FP insulating sleeve | 1 3/8 x 3 |



ILLINOIS CONDENSERS

TIME TESTED QUALITY



"ILLINI-HYCAPS" are now manufactured in a new and modern plant designed especially for the manufacture of capacitors. Our thorough engineering, plus old manufacturing skills and a rigid policy of quality control enables us to produce a product that is of unexcelled quality.

"ILLINI-HYCAPS" are again available, and you will agree after using them that they meet every requirement a superior condenser should have for long life and dependable service.

"ILLINI-HYCAPS" are guaranteed unconditionally for a period of one year, from date of purchase.

1. Short proof — ample separation of foils by highest purity cellulose separator plus tough anodic film — will withstand the highest surge voltages.
2. Condenser hermetically sealed and anchored in an aluminum shell. Completely resistant to changes due to temperature and humidity. Built to withstand all kinds of vibrations and shocks.
3. Attractive kraft tube spun over condenser ends . . . prevents shorting of pig tail leads to condenser or other components. Aluminum lock-washers hold leads securely in place, will not loosen or break off.
4. Low power factor, low leakage, excellent shelf life.
5. Extremely longer life — due to our use of C. P. chemicals and highest purity foils and insulation materials available. A balanced non-corrosive electrolyte contributes to quiet, stable operation.

TYPE IHT TUBULAR ELECTROLYTIC CAPACITORS

HI-CAPACITY — LOW VOLTAGE UNITS

| PART No. | CAP. MFD. | WORKING VOLTAGE DC | SIZE DIA. | SIZE LENGTH | LIST PRICE |
|-----------|-----------|--------------------|-----------|-------------|------------|
| IHT 10010 | 100 | 10 | 1 1/8" | 1 3/4" | \$1.45 |
| IHT 20010 | 200 | 10 | 1 1/8" | 1 3/4" | 1.65 |
| IHT 40010 | 400 | 10 | 1 1/8" | 2 1/8" | 1.90 |
| IHT 10006 | 1000 | 6 | 1 1/8" | 2 1/8" | 2.25 |
| IHT 20006 | 2000 | 6 | 1 1/8" | 2 1/8" | 3.25 |
| IHT 10012 | 1000 | 12 | 1 1/8" | 2 1/8" | 2.75 |

LOW VOLTAGE

| | | | | | |
|-----------|-----|-----|--------|--------|------|
| IHT 550 | 5 | 50 | 1 1/8" | 1 1/8" | .75 |
| IHT 1025 | 10 | 25 | 1 1/8" | 1 1/8" | .75 |
| IHT 1050 | 10 | 50 | 1 1/8" | 1 1/8" | .80 |
| IHT 2525 | 25 | 25 | 1 1/8" | 1 1/8" | .85 |
| IHT 2590 | 25 | 90 | 1 1/8" | 1 1/8" | .95 |
| IHT 5050 | 50 | 50 | 1 1/8" | 1 3/4" | 1.05 |
| IHT 5050 | 50 | 25 | 1 1/8" | 1 3/4" | 1.20 |
| IHT 10025 | 100 | 25 | 1 1/8" | 1 3/4" | 1.00 |
| IHT 8100 | 8 | 100 | 1 1/8" | 1 3/4" | 1.00 |
| IHT 16100 | 16 | 100 | 1 1/8" | 1 3/4" | 1.00 |
| IHT 8150 | 8 | 150 | 1 1/8" | 1 3/4" | .80 |
| IHT 10150 | 10 | 150 | 1 1/8" | 1 3/4" | .80 |
| IHT 12150 | 12 | 150 | 1 1/8" | 1 3/4" | .85 |
| IHT 16150 | 16 | 150 | 1 1/8" | 1 3/4" | .90 |
| IHT 2015 | 20 | 150 | 1 1/8" | 1 3/4" | .95 |
| IHT 2415 | 24 | 150 | 1 1/8" | 1 3/4" | .95 |
| IHT 3015 | 30 | 150 | 1 1/8" | 1 3/4" | 1.00 |
| IHT 4015 | 40 | 150 | 1 1/8" | 1 3/4" | 1.10 |
| IHT 5015 | 50 | 150 | 1 1/8" | 1 3/4" | 1.20 |
| IHT 7515 | 75 | 150 | 1 1/8" | 2" | 1.40 |
| IHT 10015 | 100 | 150 | 1 1/8" | 2 1/4" | 1.70 |

INTERMEDIATE VOLTAGE UNITS

Designed for Long Life Service in Selenium Rectifier And Voltage-Doubling Circuits

| | | | | | |
|-----------|----|-----|--------|--------|------|
| IHT 40175 | 40 | 175 | 1 1/8" | 1 3/4" | 1.25 |
| IHT 50175 | 50 | 175 | 1 1/8" | 1 3/4" | 1.55 |
| IHT 60175 | 60 | 175 | 1 1/8" | 2 1/8" | 1.75 |
| IHT 8250 | 8 | 250 | 1 1/8" | 1 3/4" | .80 |
| IHT 16250 | 16 | 250 | 1 1/8" | 1 3/4" | 1.10 |
| IHT 30250 | 30 | 250 | 1 1/8" | 2" | 1.25 |
| IHT 40250 | 40 | 250 | 1 1/8" | 2 1/4" | 1.45 |
| IHT 80250 | 80 | 250 | 1 1/8" | 2 1/4" | 2.00 |

HIGH VOLTAGE

| PART No. | CAP. MFD. | WORKING VOLTAGE DC | SIZE DIA. | SIZE LENGTH | LIST PRICE |
|-----------|-----------|--------------------|-----------|-------------|------------|
| IHT 4450 | 4 | 450 | 1 1/8" | 1 3/4" | \$.90 |
| IHT 6450 | 6 | 450 | 1 1/8" | 1 3/4" | .90 |
| IHT 8450 | 8 | 450 | 1 1/8" | 1 3/4" | .95 |
| IHT 10450 | 10 | 450 | 1 1/8" | 1 3/4" | 1.05 |
| IHT 1245 | 12 | 450 | 3/4" | 2 1/4" | 1.15 |
| IHT 1645 | 16 | 450 | 3/4" | 2 1/4" | 1.35 |
| IHT 2045 | 20 | 450 | 1 1/8" | 2 1/4" | 1.50 |
| IHT 3045 | 30 | 450 | 1 1/8" | 2 1/4" | 1.65 |
| IHT 4045 | 40 | 450 | 1 1/8" | 2 3/4" | 2.00 |
| IHT 5045 | 50 | 450 | 1 1/8" | 2 3/4" | 2.35 |

SPECIAL HIGH VOLTAGE UNITS

| | | | | | |
|-----------|----|-----|--------|--------|------|
| IHT 8500 | 8 | 500 | 1 1/8" | 1 7/8" | 1.30 |
| IHT 16500 | 16 | 500 | 1 1/8" | 2 1/4" | 2.00 |
| IHT 20500 | 20 | 500 | 1 1/8" | 2 1/4" | 2.25 |
| IHT 30500 | 30 | 500 | 1 1/8" | 2 7/8" | 2.50 |
| IHT 40500 | 40 | 500 | 1 1/8" | 2 7/8" | 2.80 |

DUAL UNITS — ALUMINUM CANS — LOW VOLTAGE

| | | | | | |
|-----------|-------|-----|--------|--------|------|
| IHT 2215M | 20-20 | 150 | 1 1/8" | 1 7/8" | 1.30 |
| IHT 3315M | 30-30 | 150 | 1 1/8" | 2 1/4" | 1.50 |
| IHT 4415M | 40-40 | 150 | 1 1/8" | 2 1/4" | 1.70 |
| IHT 5315M | 50-30 | 150 | 1 1/8" | 2 1/4" | 1.75 |

DUAL UNITS — ALUMINUM CAN

| | | | | | |
|-------------|-------|-----|--------|--------|------|
| IHT 8845M | 8-8 | 450 | 1 1/8" | 2 1/4" | 1.75 |
| IHT 121245M | 12-12 | 450 | 1 1/8" | 2 1/4" | 1.90 |
| IHT 16845M | 16-8 | 450 | 1 1/8" | 2 1/4" | 2.10 |
| IHT 161645M | 16-16 | 450 | 1 1/8" | 2 7/8" | 2.25 |
| IHT 2245M | 20-20 | 450 | 1 1/8" | 2 7/8" | 2.40 |



ILLINOIS CONDENSERS

TIME TESTED QUALITY

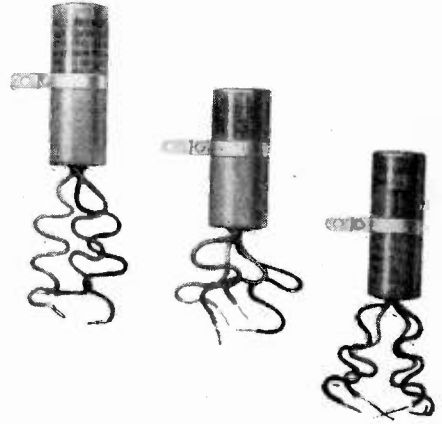
Clamp Mounting Tubulars "ILLINI-HYCAPS"

Through careful selection of high temperature sealing compounds and superior engineering design, these completely hermetically sealed, compact tubular electrolytic condensers are the acme of dependability. They operate efficiently under high temperatures and will give long life under all climatic conditions.

The small size and convenient mounting features of our Type IHC "ILLINI-HYCAPS" make them popular in both manufacturing and replacement work.

Leads are color-coded and securely anchored in the hard wax seal. Dual units have four leads for universal replacement work and are completely insulated.

Clamp may be moved to any position on tube for rapid mounting.



TYPE IHC

HIGH VOLTAGE — SINGLE UNITS

| PART No. | CAP. MFD. | WORKING VOLTAGE DC | DIA. | SIZE LENGTH | LIST PRICE |
|----------|-----------|--------------------|--------|-------------|------------|
| IHC 1245 | 12 | 450 | 7/8" | 2 3/4" | \$1.15 |
| IHC 1645 | 16 | 450 | 1" | 2 3/4" | 1.35 |
| IHC 2045 | 20 | 450 | 1 1/8" | 2 3/4" | 1.50 |
| IHC 3045 | 30 | 450 | 1 1/2" | 2 3/4" | 1.65 |
| IHC 4045 | 40 | 450 | 1 3/8" | 2 3/4" | 2.00 |
| IHC 5045 | 50 | 450 | 1 1/2" | 3 1/4" | 2.30 |
| IHC 6045 | 60 | 450 | 1 3/8" | 3 1/4" | 2.60 |
| IHC 8045 | 80 | 450 | 1 3/4" | 3 1/4" | 2.95 |

HIGH SURGE — SINGLE UNITS

| | | | | | |
|-----------|----|-----|--------|--------|------|
| IHC 12500 | 12 | 500 | 1 1/8" | 2 3/4" | 1.95 |
| IHC 16500 | 16 | 500 | 1 1/8" | 2 3/4" | 2.00 |
| IHC 20500 | 20 | 500 | 1 1/8" | 2 3/4" | 2.25 |
| IHC 30500 | 30 | 500 | 1 1/8" | 3 1/4" | 2.40 |
| IHC 40500 | 40 | 500 | 1 1/8" | 3 1/4" | 2.65 |

HIGH VOLTAGE — MULTIPLE UNITS

| | | | | | |
|--------------|-------------|--------|--------|--------|------|
| IHC 8845 | 8-8 | 450 CN | 1 1/8" | 2 3/4" | 1.70 |
| IHC-D 8845 | 8-8 | 450 DN | 1 1/8" | 2 3/4" | 2.10 |
| IHC 101045 | 10-10 | 450 CN | 1 1/8" | 2 3/4" | 1.85 |
| IHC-D 101045 | 10-10 | 450 DN | 1 1/8" | 2 3/4" | 2.20 |
| IHC 16845 | 16-8 | 450 CN | 1 1/8" | 3" | 2.00 |
| IHC 161645 | 16-16 | 450 CN | 1 1/8" | 3" | 2.30 |
| IHC-D 161645 | 16-16 | 450 DN | 1 1/8" | 3 1/4" | 3.15 |
| IHC-D 22450 | 20-20 | 450 CN | 1 3/8" | 3 1/4" | 3.70 |
| IHC 33450 | 30-30 | 450 CN | 1 1/2" | 3 1/4" | 3.95 |
| IHC 44450 | 40-40 | 450 CN | 1 3/8" | 3 1/4" | 4.10 |
| IHC 801045 | 80-10 | 450 | 1 3/8" | 3 1/4" | 4.25 |
| IHC 88845 | 8-8-8 | 450 | 1 3/8" | 3" | 2.75 |
| IHC 11145 | 10-10-10 | 450 | 1 3/8" | 3" | 3.00 |
| IHC 66645 | 16-16-16 | 450 | 1 1/4" | 3 1/4" | 3.40 |
| IHC 22245 | 20-20-20 | 450 | 1 1/2" | 3 1/4" | 3.95 |
| IHC 22245 | 20-20-20-20 | 450 | 1 3/8" | 3 3/8" | 4.50 |

LUG MOUNTING SEPARATE SECTIONS — DUAL NEGATIVES

| | | | | | |
|-----------|-------|--------|--------|--------|------|
| ULM 2847 | 8-8 | 475 DN | 1 3/8" | 3 3/8" | 3.30 |
| ULM 21647 | 16-16 | 475 DN | 1 3/8" | 3 3/8" | 4.05 |

LOW VOLTAGE — DUAL UNITS

Common Negative

| PART No. | CAP. MFD. | WORKING VOLTAGE DC | DIA. | SIZE LENGTH | LIST PRICE |
|------------|-----------|--------------------|--------|-------------|------------|
| IHC 11125 | 10-10 | 25 | 3/4" | 1 3/4" | \$1.05 |
| IHC 11150 | 10-10 | 50 | 1" | 1 3/4" | 1.15 |
| IHC 16815 | 16-8 | 150 | 1" | 2" | 1.20 |
| IHC 161615 | 16-16 | 150 | 3/4" | 2 3/8" | 1.25 |
| IHC 2215 | 20-20 | 150 | 3/4" | 2 3/8" | 1.30 |
| IHC 2215-D | 20-20* | 150 | 1 1/8" | 2 3/8" | 1.70 |
| IHC 3215 | 30-20 | 150 | 1 1/8" | 2 3/8" | 1.40 |
| IHC 3315 | 30-30 | 150 | 1 1/8" | 2 3/8" | 1.50 |
| IHC 4215 | 40-20 | 150 | 1 1/8" | 2 3/8" | 1.50 |
| IHC 4415 | 40-40 | 150 | 1 1/8" | 2 3/8" | 1.70 |
| IHC 5315 | 50-30 | 150 | 1 1/8" | 2 3/8" | 1.70 |
| IHC 5515 | 50-50 | 150 | 1" | 2 7/8" | 1.85 |
| IHC 6215 | 60-20 | 150 | 1 1/8" | 2 3/8" | 1.75 |
| IHC 8415 | 80-40 | 150 | 1" | 2 3/8" | 2.00 |
| IHC 8815 | 80-80 | 150 | 1 1/8" | 2 3/8" | 2.35 |
| IHC 125100 | 125-100 | 150 | 1 1/4" | 3 1/8" | 2.55 |

* Separate Negative, 4 Leads.

TYPE IHC — MULTIPLE UNITS

| | | | | | |
|--------------|------------|--------|--------|--------|------|
| IHC 2225 | 20-20/25 | 150/25 | 7/8" | 2 3/4" | 1.95 |
| IHC 22215 | 20-20-20 | 150 | 1" | 2 3/8" | 2.10 |
| IHC 44425 | 40-40/25 | 150/25 | 1" | 2 7/8" | 2.20 |
| IHC 5525 | 50-50/25 | 150/25 | 1" | 3" | 2.25 |
| IHC 53100 | 50-30/100 | 150/25 | 1" | 3" | 2.40 |
| IHC 43215 | 40-30-20 | 150 | 1" | 3 1/8" | 2.40 |
| IHC 84215 | 80-40-20 | 150 | 1 1/8" | 2 7/8" | 2.50 |
| IHC 8225 | 80-20/25 | 150/25 | 1" | 2 7/8" | 2.45 |
| IHC 12510025 | 125-100/25 | 150/25 | 1 1/4" | 3" | 2.75 |

TYPE PE PLUG-IN ELECTROLYTIC CAPACITORS

| PART No. | CAP. MFD. | WORKING VOLTAGE DC | DIA. | SIZE LENGTH | LIST PRICE |
|-----------|-----------|--------------------|--------|-------------|------------|
| PE 4415 | 40-40 | 150 | 1 1/8" | 2 1/2" | \$3.90 |
| PE 5315 | 50-30 | 150 | 1 1/8" | 2 1/2" | 3.90 |
| PE 5520 | 50-50 | 150 | 1 1/8" | 2 1/2" | 4.45 |
| PE 53100 | 50-30 | 150 | 1 1/8" | 2 1/2" | 4.50 |
| PE 2045 | 20 | 25 | 1 1/8" | 2 1/2" | 3.50 |
| PE 3045 | 30 | 450 | 1 1/8" | 2 1/2" | |
| PE 4045 | 40 | 450 | 1 1/8" | 3" | 4.50 |
| PE 8045 | 80 | 450 | 1 1/8" | 3" | 7.70 |
| PE 1145 | 10-10 | 450 | 1 1/8" | 3" | 4.20 |
| PE-D-1145 | 10-10* | 450 | 1 1/8" | 3" | 4.50 |
| PE 31045 | 10-10-10 | 450 | 1 1/8" | 3" | 5.00 |
| PE 2245 | 20-20 | 450 | 1 1/8" | 3" | 5.30 |
| PE 222452 | 20-20 | 450 | 1 1/8" | 3" | 5.90 |
| | 25 | 25 | | | |

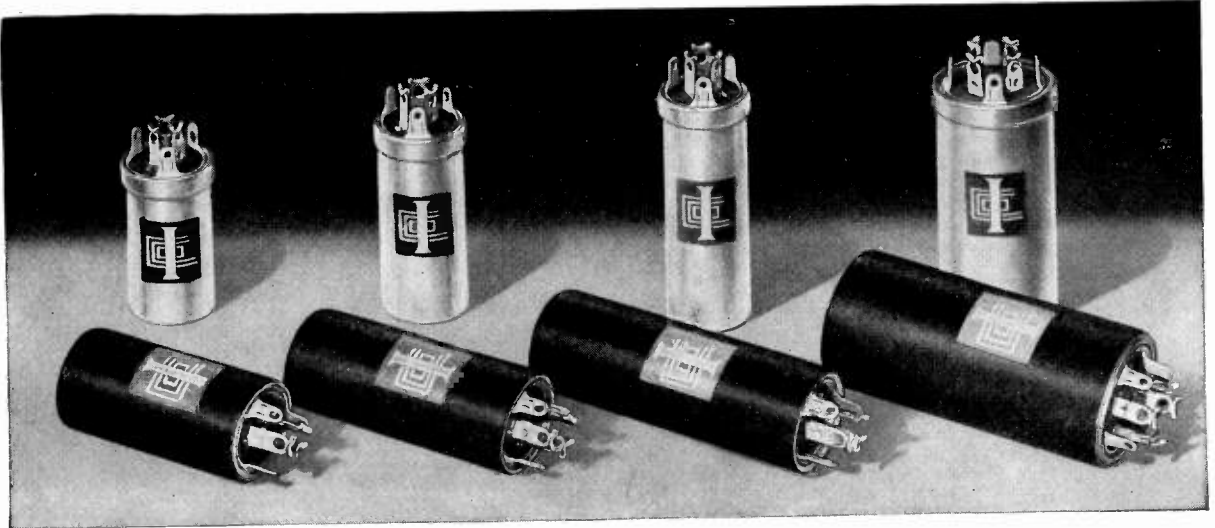
* Dual Negative.



ILLINOIS CONDENSERS

TIME TESTED QUALITY

TYPE UMP



Illinois standard, twist prong mounting condensers offer a wider range of voltage and capacity types than have heretofore been possible in units of comparable size. They are designed to give maximum efficiency, both in operating characteristics and ease of mounting and wiring.

The electrical characteristics of our type UMP are superb. Capacities are always plus. This, coupled with low power factor and low leakage, makes them ideal for use in all electronic circuits.

Units are hermetically sealed in seamless drawn aluminum cans. Mounting and soldering lugs are sturdy and heavily tinned. Cathode tabs are electrically welded to mounting ring. Each unit is vibration proof—and they will stand up in any climate.

Arranged in a variety of can sizes and capacity combinations, the attached listing represents the majority of condenser types in use today.

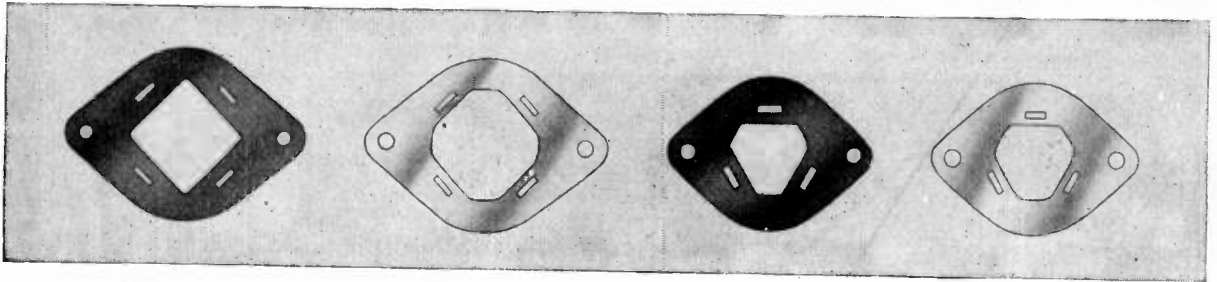
SINGLE UNITS

| Part Number | Capacity MFD | Working Voltage DC | Diameter | Size Length | List Price |
|-------------|--------------|--------------------|----------|-------------|------------|
| UMP-13 | 3000 | 10 | 1 3/8" | 3" | \$ 4.50 |
| UMP-15 | 1000 | 15 | 1" | 3" | 3.25 |
| UMP-12 | 2000 | 15 | 1 3/8" | 3" | 4.70 |
| UMP-21 | 100 | 25 | 1" | 2" | 1.45 |
| UMP-25 | 500 | 25 | 1" | 3" | 2.45 |
| UMP-205 | 1000 | 25 | 1 3/8" | 3" | 3.55 |
| UMP-505 | 500 | 50 | 1 3/8" | 3" | 3.55 |
| UMP-150 | 50 | 150 | 1" | 2" | 1.45 |
| UMP-165 | 100 | 150 | 1" | 3" | 1.85 |
| UMP-400 | 10 | 450 | 1" | 2" | 1.30 |
| UMP-415 | 15 | 450 | 1" | 2" | 1.55 |
| UMP-420 | 20 | 450 | 1" | 2" | 1.75 |
| UMP-430 | 30 | 450 | 1" | 2 1/2" | 1.90 |
| UMP-440 | 40 | 450 | 1" | 3" | 2.25 |
| UMP-480 | 80 | 450 | 1 3/8" | 3" | 3.85 |



ILLINOIS CONDENSERS

TIME TESTED QUALITY



1-3/8" Diameter
BAKELITE Mounting
Plate Part No. MPB-1

1-3/8" Diameter
STEEL Mounting Plate
Part No. MPS-2

1" Diameter
BAKELITE Mounting
Plate Part No. MPB-3

1" Diameter
STEEL Mounting
Plate Part No. MPS-4

DUAL UNITS

| Part Number | Capacity MFD | Working Voltage DC | Diameter | Size | Length | List Price |
|-------------|--------------|--------------------|----------|------|--------|------------|
| UMP-144 | 40-40 | 150 | 1" | | 2 1/2" | \$ 1.95 |
| UMP-155 | 50-50 | 150 | 1" | | 2 1/2" | 2.10 |
| UMP-411 | 10-10 | 450 | 1" | | 2" | 2.10 |
| UMP-422 | 20-20 | 450 | 1" | | 3" | 2.65 |
| UMP-444 | 40-40 | 450 | 1 3/8" | | 3" | 4.00 |
| UMP-481 | 80-10 | 450 | 1 3/8" | | 3" | 4.20 |

TRIPLE UNITS

| | | | | | | |
|----------|--------------|-----------|--------|--|--------|------|
| UMP-1332 | 30-30 20 | 150 25 | 1" | | 2" | 2.25 |
| UMP-1425 | 40-20 25 | 150 25 | 1" | | 2" | 2.35 |
| UMP-1531 | 50-30 100 | 150 25 | 1" | | 2 1/2" | 3.10 |
| UMP-3151 | 15-10 20 | 350 25 | 1" | | 2" | 2.55 |
| UMP-3312 | 30-10 20 | 350 25 | 1" | | 2 1/2" | 2.75 |
| UMP-4112 | 10-10 20 | 450 25 | 1" | | 2" | 2.35 |
| UMP-4222 | 20-20 20 | 450 25 | 1" | | 3" | 2.95 |
| UMP-4442 | 40-40 20 | 450 25 | 1 3/8" | | 3" | 4.25 |
| UMP-1222 | 20-20-20 | 150 | 1" | | 2" | 2.30 |
| UMP-1444 | 40-40-40 | 150 | 1" | | 3" | 2.60 |
| UMP-3111 | 10-10-10 | 350 | 1" | | 2" | 2.25 |
| UMP-4111 | 10-10-10 | 450 | 1" | | 2 1/2" | 2.50 |

QUADRUPLE UNITS

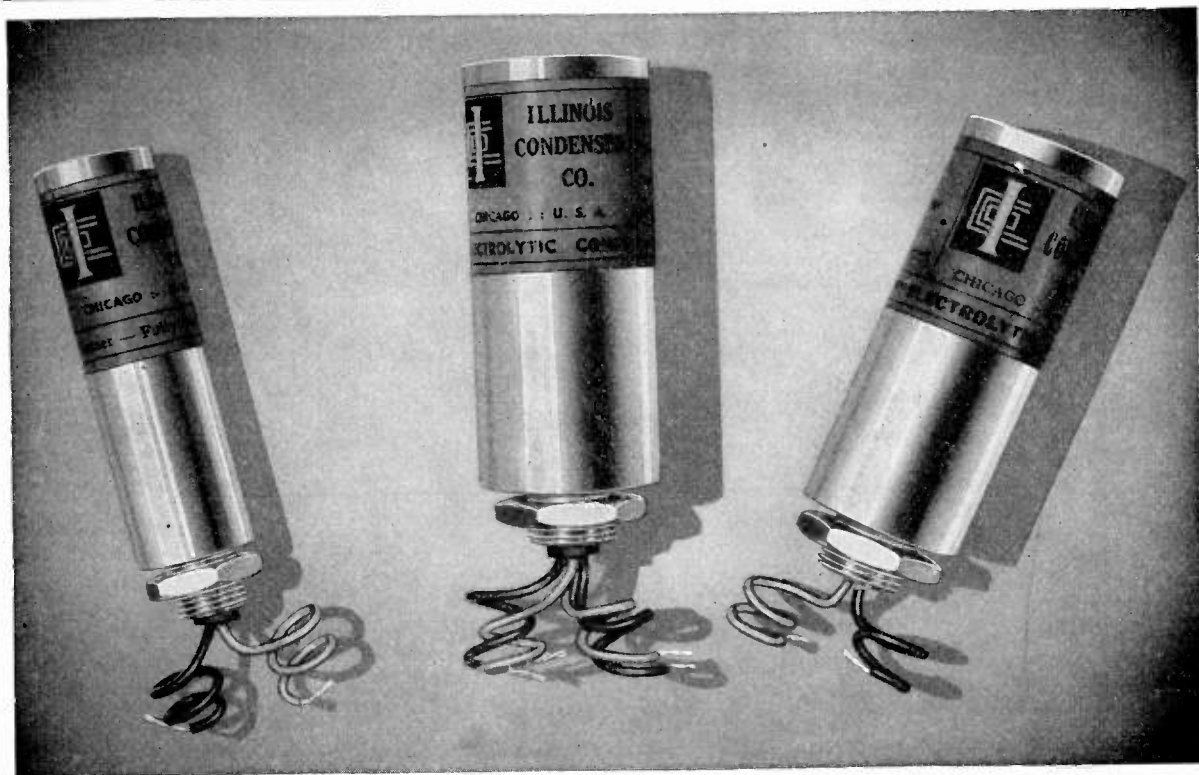
| | | | | | | |
|-----------|----------------|-----------|--------|--|----|------|
| UMP-14432 | 40-40-30 20 | 150 25 | 1 3/8" | | 2" | 3.10 |
| UMP-44312 | 40-30-10 20 | 450 25 | 1 3/8" | | 3" | 4.15 |
| UMP-41111 | 10-10-10-10 | 450 | 1 3/8" | | 2" | 3.25 |
| UMP-42222 | 20-20-20-20 | 450 | 1 3/8" | | 3" | 4.50 |

NOTE: Outer Insulating sleeves are available upon special order for all of the above can sizes. A metal and bakelite mounting washer is supplied with each unit. Individually packaged in a sturdy, attractive varnished box.



ILLINOIS CONDENSERS

TIME TESTED QUALITY



TYPE LN Inverted Screw Mounting ALUMINUM CAN CONDENSERS

Type LN aluminum can condensers are manufactured to operate satisfactorily under the severest conditions. Units are completely sealed in an inner impregnated tube then resealed. Correct design has allowed for maximum heat dissipation with resultant ability of the condensers to operate at higher temper-

atures and higher voltage surges. Separate negative and positive leads for each section for universal replacement work. Nut furnished with each condenser, individually packaged in attractive, varnished outer box. These units are ideal for long life and continuous service.

LOCKNUT METAL CANS—STUD SCREW BASE MOUNTING

HIGH VOLTAGE

TYPE LN

| PART No. | CAP. MFD. | WORKING VOLTAGE DC | SIZE DIA. | LENGTH | LIST PRICE |
|-----------|-----------|--------------------|-----------|--------|------------|
| LN 80 | 8 | 450 | 1 3/8" | 3 3/8" | \$1.75 |
| LN 120 | 12 | 450 | 1 3/8" | 3 3/8" | 2.15 |
| LN 16 | 16 | 450 | 1 3/8" | 3 3/8" | 2.40 |
| LN 20 | 20 | 450 | 1 3/8" | 3 3/8" | 2.65 |
| LN 25 | 25 | 450 | 1 3/8" | 3 3/8" | 2.85 |
| LN 30 | 30 | 450 | 1 3/8" | 3 3/8" | 3.00 |
| LN 40 | 40 | 450 | 1 1/2" | 3 1/2" | 3.40 |
| LN 50 | 50 | 450 | 1 1/2" | 3 1/2" | 3.75 |
| LN 60 | 60 | 450 | 1 1/2" | 3 1/2" | 3.95 |
| LN 8045 | 80 | 450 | 1 1/2" | 3 1/2" | 4.35 |
| LN 88 | 8-8 | 450 | 1 3/8" | 3 3/8" | 2.75 |
| LN-D 88 | 8-8* | 450 | 1 3/8" | 3 3/8" | 2.95 |
| LN 1010 | 10-10 | 450 | 1 3/8" | 3 3/8" | 3.00 |
| LN 168 | 16-8 | 450 | 1 3/8" | 3 3/8" | 3.25 |
| LN 1212 | 12-12 | 450 | 1 3/8" | 3 3/8" | 3.25 |
| LN 1212-D | 12-12** | 450 | 1 3/8" | 3 3/8" | 3.50 |
| LN 216 | 16-16 | 450 | 1 1/2" | 3 1/2" | 4.20 |
| LN-D 216 | 16-16* | 450 | 1 1/2" | 3 1/2" | 4.00 |
| LN 22 | 20-20 | 450 | 1 1/2" | 3 1/2" | 4.50 |
| LN 33 | 30-30 | 450 | 1 1/2" | 3 1/2" | 4.50 |
| LN 44 | 40-40 | 450 | 1 1/2" | 3 1/2" | 4.95 |

* Dual Negative, 4 Leads.

** Dual Negative.

TRIPLE NEGATIVE SECTION — COMMON NEGATIVE

| PART No. | CAP. MFD. | WORKING VOLTAGE DC | SIZE DIA. | LENGTH | LIST PRICE |
|----------|-----------|--------------------|-----------|--------|------------|
| LN 388 | 8-8-8 | 450 | 1 1/2" | 3 1/2" | \$4.25 |
| LN 311 | 10-10-10 | 450 | 1 1/2" | 3 1/2" | 4.50 |
| LN 316 | 16-16-16 | 450 | 1 1/2" | 3 1/2" | 4.95 |
| LN 320 | 20-20-20 | 450 | 1 1/2" | 3 1/2" | 5.30 |

QUAD SECTIONS

| | | | | | |
|--------|-------------|-----|--------|--------|------|
| LN 48 | 8-8-8-8 | 450 | 1 1/2" | 3 1/2" | 4.85 |
| LN 410 | 10-10-10-10 | 450 | 1 1/2" | 3 1/2" | 5.20 |

SINGLE & DUAL UNITS — 500 VDC

| | | | | | |
|----------|------|-----|--------|--------|------|
| LN 850 | 8 | 500 | 1 3/8" | 3 3/8" | 2.25 |
| LN 1650 | 16 | 500 | 1 3/8" | 3 3/8" | 3.15 |
| LN 8850 | 8-8 | 500 | 1 1/2" | 3 3/8" | 3.25 |
| LN 16850 | 16-8 | 500 | 1 1/2" | 3 3/8" | 3.65 |

SINGLE & DUAL UNITS — 600 VDC

| | | | | | |
|----------|----|-----|--------|--------|------|
| LN 600 | 4 | 600 | 1 3/8" | 3 3/8" | 3.00 |
| LN 8600 | 8 | 600 | 1 3/8" | 3 3/8" | 4.00 |
| LN 12600 | 12 | 600 | 1 1/2" | 3 3/8" | 4.65 |
| LN 16600 | 16 | 600 | 1 1/2" | 3 1/2" | 5.00 |
| LN 20600 | 20 | 600 | 1 1/2" | 3 1/2" | 5.75 |

SPRAGUE CAPACITORS



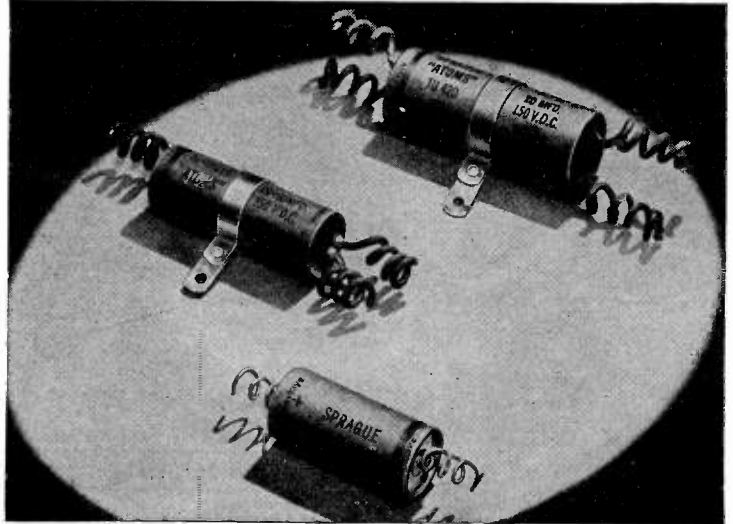
SPRAGUE ATOMS

THE UNIVERSAL MIDGET DRY ELECTROLYTICS

Sprague Atom Capacitors—"Mightiest Midgets of All"—are the answer to 90% or more of all radio service requirements for replacement dry electrolytic units. A small stock of different capacities and voltages equips you for quick, dependable service on practically every job.

Sprague atoms will fit anywhere. The smaller units can be mounted by means of their sturdy, tinned-copper leads. Metal mounting straps are provided with all dual units and are available for the larger single units. (See Hardware page P-62.) Or if desired, you can mount them by any other suitable means. Despite their extremely small size, Atoms will last longer and stand far more punishment than much larger, old-style dry electrolytics.

Atoms are guaranteed to have low leakage, to withstand high surge voltages, and to have exceptionally long shelf life. They are fully sealed against moisture and blow-ups by an exclusive Sprague process.



| SINGLE | | | | | Cat. No. | Mfd. | V DC working | Dimen. | | List Price | Cat. No. | Mfd. | V DC working | Dimen. | | List Price |
|----------|------|--------------|-------|-------|--------------------------------|-------|--------------|--------|-------|------------|----------------------------------|-----------|--------------|--------|-------|------------|
| Cat. No. | Mfd. | V DC working | D | L | | | | D | L | | | | | | | |
| TA-5 | 5 | 25 | 1 1/8 | 1 1/8 | UT-123 | 12 | 350 | 1 1/8 | 1 1/8 | \$1.10 | TA-530 | 50-30 | 150 | 1 | 2 3/8 | \$1.70 |
| TA-10 | 10 | 25 | 1 1/8 | 1 1/8 | UT-163 | 16 | 350 | 1 1/8 | 1 1/8 | 1.25 | TA-505 | 50-50 | 150 | 1 | 2 3/8 | 1.85 |
| TA-25 | 25 | 25 | 1 1/8 | 1 1/8 | UT-203 | 20 | 350 | 1 1/8 | 1 1/8 | 1.30 | TA-816 | 8-16 | 200 | 3/8 | 2 3/8 | 1.30 |
| TA-50 | 50 | 25 | 1 1/8 | 1 1/8 | UT-4 | 4 | 450 | 1 1/8 | 1 1/8 | .90 | TA-212 | 12-12 | 200 | 3/8 | 2 3/8 | 1.30 |
| TA-55 | 5 | 50 | 1 1/8 | 1 1/8 | UT-8 | 8 | 450 | 1 1/8 | 1 1/8 | .95 | TA-216 | 16-16 | 200 | 3/8 | 2 3/8 | 1.50 |
| TA-510 | 10 | 50 | 1 1/8 | 1 1/8 | UT-10 | 10 | 450 | 1 1/8 | 1 1/8 | 1.05 | AT-261 | 16-16 | 250 | 1 1/8 | 2 3/8 | 1.70 |
| TA-525 | 25 | 50 | 1 1/8 | 1 1/8 | UT-12 | 12 | 450 | 1 1/8 | 1 1/8 | 1.15 | UT-88 | 8-8 | 450 | 1 | 2 3/8 | 1.70 |
| TA-550 | 50 | 50 | 1 1/8 | 1 1/8 | UT-16 | 16 | 450 | 1 1/8 | 1 1/8 | 1.35 | UT-816 | 8-16 | 450 | 1 | 2 3/8 | 2.00 |
| UT-41 | 4 | 150 | 1 | 1 | UT-20 | 20 | 450 | 1 1/8 | 1 1/8 | 1.50 | UT-220 | 20-20 | 450 | 1 | 3 3/8 | 2.40 |
| UT-81 | 8 | 150 | 1 | 1 | UT-30 | 30 | 450 | 1 1/8 | 1 1/8 | 1.65 | TA-301 | 20-20/20 | 150/25 | 7/8 | 2 3/8 | \$1.90 |
| UT-121 | 12 | 150 | 1 | 1 | UT-40 | 40 | 450 | 1 1/8 | 1 1/8 | 2.00 | TA-303 | 30-30-30 | 150 | 1 | 2 3/8 | 2.20 |
| UT-161 | 16 | 150 | 1 | 1 | UT-85 | 8 | 500 | 1 1/8 | 1 1/8 | 1.30 | TA-305 | 40-30/20 | 150/25 | 7/8 | 2 3/8 | 2.05 |
| UT-201 | 20 | 150 | 1 | 1 | UT-165 | 16 | 500 | 1 1/8 | 1 1/8 | 2.00 | TA-307 | 50-30/20 | 150/25 | 7/8 | 2 3/8 | 2.10 |
| UT-301 | 30 | 150 | 1 | 1 | UT-205 | 20 | 500 | 1 1/8 | 1 1/8 | 2.40 | TA-309 | 50-50/20 | 150/25 | 1 | 2 3/8 | 2.25 |
| UT-401 | 40 | 150 | 1 | 1 | COMMON NEGATIVE—3 LEADS | | | | | | TA-311 | 30-30/100 | 150/12 | 7/8 | 2 3/8 | 2.50 |
| UT-501 | 50 | 150 | 1 | 1 | TA-110 | 10-10 | 25 | 1 1/8 | 2 3/8 | \$1.05 | TA-313 | 12-12/20 | 450/25 | 1 | 2 3/8 | 2.20 |
| UT-42 | 4 | 250 | 1 | 1 | TA-100 | 10-10 | 50 | 1 1/8 | 2 3/8 | 1.15 | SEPARATE SECTIONS—4 LEADS | | | | | |
| UT-82 | 8 | 250 | 1 | 1 | TA-88 | 8-8 | 150 | 1 1/8 | 2 3/8 | 1.15 | TU-220 | 20-20 | 150 | 1 | 2 3/8 | \$2.00 |
| UT-122 | 12 | 250 | 1 | 1 | TA-122 | 12-20 | 150 | 1 1/8 | 2 3/8 | 1.25 | TU-420 | 40-20 | 150 | 1 1/8 | 2 3/8 | 2.35 |
| UT-162 | 16 | 250 | 1 | 1 | TA-116 | 16-16 | 150 | 1 1/8 | 2 3/8 | 1.25 | TU-816 | 8-16 | 250 | 1 | 2 3/8 | 2.25 |
| UT-202 | 20 | 250 | 1 | 1 | TA-220 | 20-20 | 150 | 1 1/8 | 2 3/8 | 1.30 | TU-216 | 16-16 | 250 | 1 | 2 3/8 | 2.55 |
| UT-402 | 40 | 250 | 2 | 2 | TA-230 | 20-30 | 150 | 1 1/8 | 2 3/8 | 1.40 | TU-88 | 8-8 | 450 | 1 1/8 | 3 3/8 | 2.10 |
| UT-43 | 4 | 350 | 1 | 1 | TA-240 | 20-40 | 150 | 1 1/8 | 2 3/8 | 1.50 | TU-1616 | 16-16 | 450 | 1 3/8 | 3 3/8 | 3.15 |
| UT-83 | 8 | 350 | 1 | 1 | TA-330 | 30-30 | 150 | 1 1/8 | 2 3/8 | 1.50 | | | | | | |
| | | | | | TA-430 | 40-30 | 150 | 1 | 2 3/8 | 1.60 | | | | | | |
| | | | | | TA-440 | 40-40 | 150 | 1 | 2 3/8 | 1.70 | | | | | | |

SPRAGUE UHC HIGH-CAPACITY, LOW-VOLTAGE TUBULARS

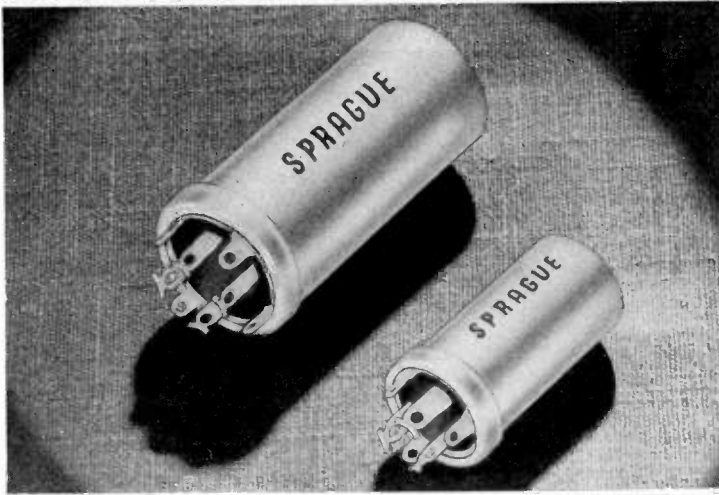
These miniature high-capacity, low-voltage tubular dry electrolytics are specifically constructed for use as cathode by-pass capacitors and as smoothing filters for low-voltage, high-current power supplies. Whereas ordinary high-capacity, dry electrolytics have high leakage current and relatively high power factor, Type UHC provides exceptionally low leakage current and low power factor. In by-pass applications, this means unusually high filtering action,

without the introduction of shunt resistance across low-resistance bias units, and it is particularly important in controlled feedback amplifiers.



| Catalog No. | Mfd. | Voltage | | Dimensions | | List Price |
|-------------|------|------------|-------|------------|-------|------------|
| | | DC working | Surge | D | L | |
| UHC-106 | 100 | 6 | 10 | 1 1/8 | 1 1/8 | \$1.40 |
| UHC-206 | 250 | 6 | 10 | 1 1/8 | 1 1/8 | 1.55 |
| UHC-506 | 500 | 6 | 10 | 2 1/8 | 2 1/8 | 1.70 |
| UHC-1000 | 1000 | 6 | 10 | 2 1/8 | 2 1/8 | 2.25 |
| UHC-1500 | 1500 | 6 | 10 | 2 1/8 | 2 1/8 | 3.00 |
| UHC-112 | 100 | 12 | 15 | 1 1/8 | 1 1/8 | 1.55 |
| UHC-212 | 250 | 12 | 15 | 1 1/8 | 1 1/8 | 1.75 |
| UHC-512 | 500 | 12 | 15 | 1 1/8 | 1 1/8 | 1.90 |
| UHC-1012 | 1000 | 12 | 15 | 2 1/8 | 2 1/8 | 2.75 |
| UHC-115 | 100 | 15 | 20 | 1 1/8 | 1 1/8 | 1.70 |
| UHC-215 | 250 | 15 | 20 | 1 1/8 | 1 1/8 | 1.90 |
| UHC-515 | 500 | 15 | 20 | 2 1/8 | 2 1/8 | 2.10 |
| UHC-1015 | 1000 | 15 | 20 | 1 1/8 | 2 1/8 | 3.00 |
| UHC-102 | 100 | 25 | 40 | 1 1/8 | 1 1/8 | 1.20 |
| UHC-202 | 250 | 25 | 40 | 7/8 | 1 1/8 | 2.00 |
| UHC-502 | 500 | 25 | 40 | 1 1/8 | 2 1/8 | 2.25 |
| UHC-105 | 100 | 50 | 75 | 1 1/8 | 1 1/8 | 1.50 |

SPRAGUE CAPACITORS



SPRAGUE EL "TWIST-LOK" SELF - MOUNTING MIDGET CAN TYPE

The popularity of EL units is proved by their wide-spread use by leading manufacturers. They are easy to mount, and no other dry type gives so much dependability in such compact size. EL Capacitors are of highest quality etched-foil construction, hermetically sealed in aluminum cans and have twist-prong tabs for washer or direct to chassis mounting. Tabs have holes and are tinned for easy soldering. Each unit is supplied to you with Bakelite and metal washers, making them ideal for above-chassis mounting. The mounting tab ring, formed by the end of the metal container and serving as the negative terminal, is electrically welded to the capacitor cathode. Multi-Section EL Capacitors are concentrically wound and have common cathode construction.

SINGLE SECTION

| Catalog No. | Mfd. | Voltage DC working | Dimensions D | L | List Price |
|-------------|------|--------------------|--------------|-------|------------|
| EL-13 | 3000 | 10 | 1 3/8 | 3 | \$4.50 |
| EL-111 | 1000 | 15 | 1 1/8 | 3 | 3.25 |
| EL-121 | 2000 | 15 | 1 3/8 | 3 | 4.70 |
| EL-142 | 40 | 25 | 3/4 | 2 | 1.10 |
| EL-112 | 100 | 25 | 3/4 | 2 | 1.45 |
| EL-152 | 500 | 25 | 1 | 2 | 2.45 |
| EL-122 | 1000 | 25 | 1 3/8 | 2 | 3.55 |
| EL-50 | 150 | 50 | 3/4 | 2 1/2 | 2.45 |
| EL-55 | 500 | 50 | 1 3/8 | 2 1/2 | 3.55 |
| EL-31 | 30 | 150 | 3/4 | 2 | 1.25 |
| EL-51 | 50 | 150 | 3/4 | 2 1/2 | 1.45 |
| EL-14 | 40 | 200 | 1 | 2 | 1.50 |
| EL-12 | 20 | 250 | 3/4 | 2 | 1.45 |
| EL-30 | 30 | 250 | 3/4 | 2 1/2 | 1.55 |
| EL-42 | 40 | 250 | 1 | 2 | 1.70 |
| EL-6 | 60 | 250 | 1 | 2 1/2 | 2.05 |
| EL-203 | 15 | 300 | 3/4 | 2 | 1.40 |
| EL-33 | 30 | 300 | 1 | 2 | 1.65 |
| EL-53 | 50 | 300 | 1 | 2 1/2 | 1.95 |
| EL-123 | 125 | 300 | 1 3/8 | 3 | 3.20 |
| EL-5 | 50 | 350 | 1 | 3 | 2.05 |
| EL-125 | 125 | 350 | 1 3/8 | 3 | 3.55 |
| EL-10 | 10 | 400 | 3/4 | 2 | 1.25 |
| EL-20 | 20 | 400 | 1 | 2 | 1.65 |
| EL-80 | 80 | 400 | 1 3/8 | 2 1/2 | 2.95 |
| EL-1 | 10 | 450 | 3/4 | 2 | 1.30 |
| EL-15 | 15 | 450 | 1 | 2 | 1.55 |
| EL-2 | 20 | 450 | 1 | 2 | 1.75 |
| EL-3 | 30 | 450 | 1 | 2 1/2 | 1.90 |
| EL-4 | 40 | 450 | 1 | 3 | 2.25 |
| EL-115 | 10 | 525 | 1 | 2 | 1.75 |

DUAL SECTION

| | | | | | |
|--------|-------|---------|-------|-------|------|
| EL-242 | 40-40 | 25 | 1 | 2 | 1.50 |
| EL-250 | 50-50 | 50 | 1 | 2 | 1.70 |
| EL-221 | 20-20 | 150 | 1 | 2 | 1.55 |
| EL-231 | 30-15 | 150 | 1 | 2 | 1.60 |
| EL-230 | 30-30 | 150 | 1 | 2 | 1.75 |
| EL-24 | 40-20 | 150 | 1 | 2 | 1.75 |
| EL-35 | 50-30 | 150 | 1 | 2 | 1.95 |
| EL-25 | 50-50 | 150 | 1 | 2 | 2.10 |
| EL-26 | 60-60 | 150 | 1 | 3 | 2.25 |
| EL-101 | 10-10 | 250 | 1 | 2 | 1.75 |
| EL-120 | 20-20 | 250 | 1 | 2 | 2.05 |
| EL-245 | 40-40 | 250 | 1 | 3 | 2.30 |
| EL-21 | 10-10 | 300 | 1 | 2 | 1.80 |
| EL-253 | 15-15 | 300 | 1 | 2 | 1.95 |
| EL-22 | 20-20 | 300-25 | 1 | 2 | 1.85 |
| EL-23 | 30-30 | 300-350 | 1 | 3 | 2.60 |
| EL-32 | 30-20 | 350 | 1 | 3 | 2.50 |
| EL-254 | 15-15 | 400 | 1 | 2 1/2 | 2.30 |
| EL-214 | 80-10 | 400 | 1 3/8 | 3 | 4.00 |
| EL-210 | 10-10 | 450 | 1 | 2 | 2.10 |
| EL-151 | 15-10 | 450 | 1 | 3 | 2.35 |
| EL-220 | 20-20 | 450 | 1 | 3 | 2.65 |
| EL-240 | 40-40 | 450 | 1 3/8 | 3 | 4.00 |

TRIPLE SECTION

| Catalog No. | Mfd. | Voltage DC working | Dimensions D | L | List Price |
|-------------|-----------|--------------------|--------------|-------|------------|
| EL-325 | 20-20-20 | 25 | 1 | 2 | \$2.00 |
| EL-335 | 30-30-30 | 50 | 1 | 2 | 2.30 |
| EL-313 | 10-30-30 | 150 | 1 | 2 | 2.30 |
| EL-320 | 20-20-20 | 150 | 1 | 2 | 2.30 |
| EL-224 | 40-20-20 | 150 | 1 | 2 | 2.40 |
| EL-340 | 40-40-40 | 150 | 1 | 3 | 2.60 |
| EL-321 | 30-20-100 | 150-150-6 | 1 | 2 | 2.65 |
| EL-222 | 20-20-20 | 150-150-25 | 1 | 2 | 2.20 |
| EL-324 | 30-20-20 | 150-150-25 | 1 | 2 | 2.70 |
| EL-332 | 30-30-20 | 150-150-25 | 1 | 2 | 2.25 |
| EL-43 | 30-40-25 | 150-150-25 | 1 | 2 | 2.35 |
| EL-343 | 40-30-20 | 150-150-25 | 1 | 2 | 2.35 |
| EL-351 | 50-30-100 | 150-150-25 | 1 | 2 1/2 | 3.10 |
| EL-352 | 50-50-20 | 150-150-25 | 1 | 2 1/2 | 2.55 |
| EL-355 | 10-15-15 | 250 | 1 | 2 | 2.50 |
| EL-315 | 10-15-30 | 250 | 1 | 2 | 2.65 |
| EL-354 | 40-20-20 | 250 | 1 | 3 | 3.00 |
| EL-331 | 15-15-20 | 250-250-25 | 1 | 2 | 2.45 |
| EL-334 | 30-30-20 | 250-250-25 | 1 | 2 1/2 | 2.70 |
| EL-314 | 10-20-30 | 250-250-350 | 1 | 3 | 2.80 |
| EL-316 | 10-10-10 | 300 | 1 | 2 | 2.40 |
| EL-333 | 20-20-20 | 300-300-25 | 1 | 2 | 2.60 |
| EL-341 | 40-15-20 | 300-300-25 | 1 | 2 1/2 | 2.80 |
| EL-102 | 10-10-20 | 350-350-25 | 1 | 2 | 2.30 |
| EL-153 | 15-10-20 | 350-350-25 | 1 | 2 | 2.40 |
| EL-326 | 15-15-20 | 350-350-25 | 1 | 2 1/2 | 2.55 |
| EL-212 | 20-10-20 | 350-350-25 | 1 | 2 1/2 | 2.45 |
| EL-323 | 30-20-20 | 350-350-25 | 1 | 3 | 2.80 |
| EL-311 | 10-10-10 | 400 | 1 | 2 1/2 | 2.50 |
| EL-342 | 15-15-40 | 400-400-25 | 1 | 2 | 2.70 |
| EL-322 | 20-20-20 | 400-400-25 | 1 | 3 | 2.80 |
| EL-310 | 10-10-10 | 450 | 1 | 2 1/2 | 2.50 |
| EL-344 | 15-15-10 | 450 | 1 | 3 | 2.85 |
| EL-300 | 20-20-20 | 450 | 1 3/8 | 2 1/2 | 3.45 |
| EL-362 | 20-15-10 | 450-300-300 | 1 | 3 | 2.85 |
| EL-363 | 10-10-20 | 450-350-25 | 1 | 2 | 2.30 |
| EL-364 | 15-20-20 | 450-350-250 | 1 3/8 | 2 | 2.95 |
| EL-345 | 10-10-10 | 450-450-25 | 1 | 2 1/2 | 2.30 |
| EL-202 | 10-10-20 | 450-450-25 | 1 | 2 1/2 | 2.35 |
| EL-312 | 10-20-20 | 450-450-25 | 1 | 3 | 2.55 |
| EL-353 | 15-15-20 | 450-450-25 | 1 | 3 | 2.70 |
| EL-205 | 20-15-20 | 450-450-25 | 1 | 2 1/2 | 2.80 |
| EL-350 | 20-20-20 | 450-450-25 | 1 | 3 | 2.95 |
| EL-330 | 30-30-20 | 450-450-25 | 1 3/8 | 2 1/2 | 3.15 |
| EL-360 | 15-15-10 | 450-450-300 | 1 | 3 | 2.80 |
| EL-215 | 15- 5-15 | 450-450-350 | 1 | 3 | 2.50 |

QUADRUPLE SECTION

| | | | | | |
|--------|-------------|-----------------|-------|-------|------|
| EL-434 | 30-30-30-40 | 150-150-150-25 | 1 3/8 | 2 | 3.05 |
| EL-443 | 40-40-30-20 | 150-150-150-25 | 1 3/8 | 2 | 3.10 |
| EL-452 | 50-50-50-20 | 150-150-150-25 | 1 3/8 | 2 | 3.40 |
| EL-422 | 40-20-10-20 | 200-200-200-25 | 1 3/8 | 2 | 3.15 |
| EL-412 | 10-10-10-20 | 300-300-300-25 | 1 3/8 | 2 | 2.95 |
| EL-432 | 40-40-20-20 | 350-300-300-25 | 1 3/8 | 3 | 3.95 |
| EL-415 | 20-10- 5-10 | 350-350-350-25 | 1 3/8 | 2 | 3.05 |
| EL-442 | 20-20-20-20 | 400-400-400-25 | 1 3/8 | 2 1/2 | 3.80 |
| EL-410 | 10-10-10-10 | 450 | 1 3/8 | 2 | 3.25 |
| EL-420 | 20-20-20-20 | 450 | 1 3/8 | 3 | 4.50 |
| EL-421 | 20-15-15-20 | 450-350-350-25 | 1 3/8 | 2 | 3.60 |
| EL-423 | 20-15-20-20 | 450-450- 25-25 | 1 3/8 | 2 | 3.40 |
| EL-425 | 20-20-30-30 | 450-450-300-300 | 1 3/8 | 3 | 4.35 |
| EL-431 | 10-10-10-20 | 450-450-450-25 | 1 3/8 | 2 | 3.05 |
| EL-424 | 40-30-10-20 | 450-450-450-25 | 1 3/8 | 3 | 4.15 |

SPRAGUE CAPACITORS



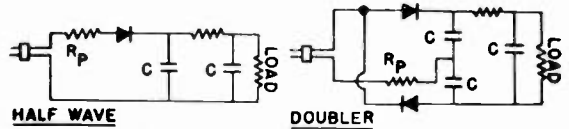
SPRAGUE ELS SELENIUM RECTIFIER ELECTROLYTICS IN "TWIST-LOCK" CANS

Electrolytic Capacitors used in filter circuits for selenium rectifiers should be specifically designed for the job. As normally used in radio receivers, the use of selenium rectifiers results in the full 115 volts AC being applied to the filter for some 5 to 15 seconds each time the set is switched on. Even in normal operation, ripple currents as high as 400 milliamperes are not uncommon.

Conventional filter capacitors are not designed to handle these situations. High ripple current is detrimental to electrolytic capacitors because of heating due to power losses in the unit, and the tendency toward film formation on the cathode. Sprague Type ELS capacitors have been specifically designed to withstand the high ripple currents and reverse currents encountered in selenium rectifier circuits.

| Catalog No. | Mfd. | DC Working Voltage | —Can Size— | | List Price |
|-------------|------|--------------------|------------|-------|------------|
| | | | D | L | |
| ELS-1 | 40 | 150 | 3/4 | 2 | \$1.35 |
| ELS-2 | 80 | 150 | 1 | 2 | 1.75 |
| ELS-3 | 150 | 150 | 1 3/8 | 2 1/2 | 2.75 |
| ELS-4 | 60 | 300 | 1 3/8 | 3 | 2.15 |
| ELS-5 | 80 | 300 | 1 3/8 | 2 1/2 | 2.50 |

TWO TYPICAL SELENIUM RECTIFIER CIRCUITS



The two circuits shown above are typical of the type often used with selenium rectifiers. To protect both the filter capacitors as well as the rectifier, a protective resistor, R_p , should be used as shown in the diagram. This is particularly necessary in replacement work where the original circuit used a tube as a rectifier. A normal value of R_p is 50 ohms, and with normal ratings of selenium rectifiers available should not be less than 10 ohms.

Even though the protective resistor is used, the filter capacitors are subjected to severe ripple currents. For safe performance of the circuit, it is essential that these capacitors be specifically designed and produced to withstand these extreme conditions.

| Catalog No. | Mfd. | DC Working Voltage | —Can Size— | | List Price |
|-------------|----------|--------------------|------------|-------|------------|
| | | | D | L | |
| ELS-6 | 20-20 | 150 | 1 | 2 | \$1.55 |
| ELS-7 | 40-40 | 150 | 1 | 2 | 1.95 |
| ELS-8 | 80-40 | 150 | 1 3/8 | 2 | 2.25 |
| ELS-9 | 40-40 | 200 | 1 | 3 | 2.20 |
| ELS-10 | 40-40 | 300 | 1 3/8 | 2 1/2 | 3.00 |
| ELS-11 | 60-60 | 300 | 1 3/8 | 3 | 3.25 |
| ELS-12 | 80-40 | 300 | 1 3/8 | 3 | 3.65 |
| ELS-13 | 20-20-20 | 150 | 1 | 2 | 2.30 |
| ELS-14 | 20-20/20 | 150/25 | 1 | 2 | 2.20 |
| ELS-15 | 40-20/20 | 150/25 | 1 | 2 | 2.30 |
| ELS-16 | 40-20/20 | 300/25 | 1 3/8 | 2 | 3.00 |

SPRAGUE HLV HIGH - CAPACITY, LOW - VOLTAGE ALUMINUM CAN TYPES

These aluminum can low-capacity, low-voltage capacitors are specifically designed for tough filter applications, in "A" eliminators, talking movie equipment, plant telephone systems and similar low-voltage, high capacity filter circuits where it is essential to have absolute reliability, and to eliminate all hum. All units have outer insulating tube.

| Catalog No. | Mfd. | —Voltage— | | —Dimensions— | | List Price |
|-------------|------|------------|-------|--------------|-------|------------|
| | | DC working | Surge | D | L | |
| HLV-506 | 500 | 6 | 10 | 1 | 2 1/8 | \$2.70 |
| HLV-106 | 1000 | 6 | 10 | 1 3/8 | 2 3/4 | 3.25 |
| HLV-156 | 1500 | 6 | 10 | 1 3/8 | 2 3/4 | 4.00 |
| HLV-206 | 2000 | 6 | 10 | 1 3/8 | 3 3/4 | 4.80 |
| HLV-5012 | 500 | 12 | 15 | 1 3/8 | 2 3/4 | 2.75 |
| HLV-1012 | 1000 | 12 | 15 | 1 3/8 | 2 3/4 | 2.90 |
| HLV-1512 | 1500 | 12 | 15 | 1 3/8 | 2 3/4 | 4.50 |
| HLV-2012 | 2000 | 12 | 15 | 1 3/8 | 3 3/4 | 4.80 |
| HLV-5015 | 500 | 15 | 20 | 1 3/8 | 2 3/4 | 3.10 |
| HLV-1015 | 1000 | 15 | 20 | 1 3/8 | 2 3/4 | 3.70 |
| HLV-1515 | 1500 | 15 | 20 | 1 3/8 | 3 3/4 | 4.75 |
| HLV-2015 | 2000 | 15 | 20 | 1 1/2 | 3 3/4 | 5.80 |
| HLV-525 | 500 | 25 | 40 | 1 3/8 | 2 3/4 | 4.00 |
| HLV-1025 | 1000 | 25 | 40 | 1 3/8 | 3 3/4 | 4.85 |
| HLV-2025 | 2000 | 25 | 40 | 1 3/8 | 4 3/4 | 7.20 |



SPRAGUE WR WET ELECTROLYTIC REPLACEMENTS

Sprague Type WR Capacitors are NOT SUBSTITUTES. They are dry electrolytics of very high voltage formation specifically designed for use wherever wet electrolytic capacitors may have been used. They will stand high peak voltages and they'll handle a-c ripples that might cause ordinary 450-volt dries to break down.

| Cat. No. | Mfd. | Work. V DC | Surge | Diam. | Lgth. | List Price |
|----------|------|------------|-------|-------|-------|------------|
| WR-8 | 8 | 500 | 600 | 1 3/8 | 3 1/8 | \$1.55 |
| WR-16 | 16 | 500 | 600 | 1 3/8 | 4 1/8 | 2.35 |
| WR-25 | 25 | 500 | 600 | 1 1/2 | 5 1/8 | 2.75 |

It's **SPRAGUE** for the full picture on **TV DRYS**



TOPS FOR TELEVISION!

● Sprague serves the service industry first again with the most complete line of television electrolytics. Engineered especially for tough TV replacement applications, Sprague's new Type TVA Atom® and Type TVL Twist-Lok* electrolytics stand up under the extremely high temperatures, high ripple currents and high surge voltages encountered in TV receivers.

● Like all Sprague Capacitors, Types TVA and TVL Television Electrolytics have the extra dependability that has helped make Sprague the largest capacitor supplier to the television and electronic industry.

● The most popular replacement units for RCA, Philco, Dumont, Admiral, General Electric, Motorola, Emerson, Zenith, Westinghouse and other leading set brands are in the comprehensive listings on this page.

TYPE TVA ATOMS®

Small sized, metal-encased dry electrolytic tubulars. . . . All are suitable for 85°C operation. . . . TVA-11 through TVA-14 are specially designed miniatures for TV and FM detector circuits. . . .

| Cat. No. | Mfd. | WVDC | Size* | List Price |
|---------------------|-------|------|-----------------|------------|
| SINGLE UNITS | | | | |
| TVA-1 | 1000 | 6 | 1 3/16 x 2 3/16 | \$2.25 |
| TVA-2 | 2000 | 6 | 1 1/4 x 2 3/16 | 3.90 |
| TVA-3 | 250 | 12 | 1 1/4 x 1 13/16 | 1.75 |
| TVA-4 | 500 | 12 | 1 3/8 x 1 13/16 | 1.90 |
| TVA-5 | 10 | 25 | 7/16 x 1 1/4 | .75 |
| TVA-6 | 25 | 25 | 7/16 x 1 1/4 | .85 |
| TVA-7 | 50 | 25 | 1 1/8 x 1 3/16 | 1.00 |
| TVA-8 | 100 | 25 | 1 1/8 x 1 13/16 | 1.20 |
| TVA-9 | 250 | 25 | 1 3/8 x 1 13/16 | 2.00 |
| TVA-10 | 500 | 25 | 1 3/8 x 2 3/16 | 2.25 |
| TVA-11 | 1 | 50 | 7/16 x 1 1/4 | .75 |
| TVA-12 | 2 | 50 | 7/16 x 1 1/4 | .75 |
| TVA-13 | 5 | 50 | 7/16 x 1 1/4 | .75 |
| TVA-14 | 10 | 50 | 7/16 x 1 1/4 | .80 |
| TVA-15 | 25 | 50 | 9/16 x 1 3/16 | .90 |
| TVA-16 | 50 | 50 | 9/16 x 1 13/16 | 1.05 |
| TVA-17 | 100 | 50 | 1 1/8 x 1 13/16 | 1.50 |
| TVA-18 | 30 | 150 | 1 3/8 x 1 13/16 | 1.00 |
| TVA-19 | 80 | 150 | 1 3/8 x 2 3/16 | 1.50 |
| TVA-21 | 10 | 450 | 1 3/8 x 2 3/16 | 1.05 |
| TVA-22 | 20 | 450 | 1 1/2 x 2 3/16 | 1.50 |
| TVA-23 | 30 | 450 | 1 1/2 x 2 3/16 | 1.65 |
| TVA-24 | 40 | 450 | 1 1/2 x 3 1/16 | 2.00 |
| DUAL UNITS | | | | |
| TVA-20 | 20+20 | 150 | 1 3/8 x 1 3/16 | 1.30 |
| TVA-25 | 10+10 | 450 | 1 3/8 x 2 3/16 | 1.85 |

TYPE TVL TWIST-LOK* DRY ELECTROLYTICS

A twist of the mounting tabs locks units in place. . . . Hermetically sealed for long life. . . . Designed for 85°C operation up to 450 WVDC.

| Cat. No. | Mfd. | WVDC | Size* | List Price |
|------------------------|-------------------|----------------|---------------|------------|
| SINGLE UNITS | | | | |
| TVL-41 | .5 ohm @ 15.75 kc | 3, non-pol. | 1 x 2 | \$2.90 |
| TVL-42 | 1 ohm @ 60 cps | 3, non-pol. | 1 3/8 x 2 1/2 | 4.50 |
| TVL-43 | 2000 | 6 | 1 3/8 x 2 | 4.20 |
| TVL-1 | 80 | 150 | 1 x 2 1/2 | 1.75 |
| TVL-61 | 80 | 150 | 1 3/8 x 2 | 1.75 |
| TVL-70 | 15 | 250 | 1 x 2 | 1.40 |
| TVL-63 | 30 | 250 | 1 x 2 1/2 | 1.55 |
| TVL-3 | 50 | 250 | 1 x 2 | 1.90 |
| TVL-62 | 80 | 250 | 1 x 3 1/2 | 2.40 |
| TVL-44 | 150 | 250 | 1 3/8 x 3 | 3.20 |
| TVL-4 | 100 | 300 | 1 x 4 | 3.15 |
| TVL-5 | 80 | 350 | 1 3/8 x 2 1/2 | 2.80 |
| TVL-45 | 40 | 450 | 1 x 3 | 2.25 |
| TVL-6 | 125 | 450 | 1 3/8 x 4 | 5.75 |
| TVL-7 | 30 | 475 | 1 x 3 | 2.60 |
| TVL-8 | 40 | 475 | 1 3/8 x 2 | 3.00 |
| TVL-9 | 90 | 475 | 1 3/8 x 3 1/2 | 6.50 |
| DUAL UNITS | | | | |
| TVL-10 | 1000+500 | 6, non-pol. | 1 3/8 x 2 | 2.95 |
| TVL-66 | 250/1000 | 10/6 | 1 3/8 x 2 | 4.25 |
| TVL-13 | 1000+1000 | 15 | 1 x 3 1/2 | 4.90 |
| TVL-14 | 80+80 | 300 | 1 3/8 x 3 1/2 | 3.85 |
| TVL-46 | 120+20 | 300 | 1 3/8 x 3 1/2 | 3.60 |
| TVL-15 | 30+10 | 400 | 1 x 3 | 2.50 |
| TVL-16 | 20/80 | 450/350 | 1 3/8 x 3 1/2 | 3.80 |
| TVL-69 | 40/10 | 450/350 | 1 3/8 x 2 | 2.75 |
| TVL-64 | 40+40 | 450 | 1 3/8 x 3 | 4.00 |
| TVL-17 | 80/10 | 450/25 | 1 3/8 x 3 | 3.70 |
| TVL-18 | 80/50 | 450/50 | 1 3/8 x 3 | 4.00 |
| TVL-47 | 80+10 | 450 | 1 3/8 x 3 | 4.25 |
| TVL-19 | 20/100 | 475/300 | 1 3/8 x 3 1/2 | 4.10 |
| TVL-20 | 40+40 | 475 | 1 3/8 x 3 | 4.65 |
| TRIPLE UNITS | | | | |
| TVL-49 | 20/250+100 | 150/15 | 1 3/8 x 2 1/2 | 2.80 |
| TVL-48 | 100/50/25 | 150/50/25 | 1 x 3 | 2.80 |
| TVL-50 | 70+70/20 | 200/50 | 1 3/8 x 3 | 4.00 |
| TVL-21 | 100+10/40 | 200/50 | 1 3/8 x 2 | 3.85 |
| TVL-22 | 80+80/60 | 250/200 | 1 3/8 x 3 1/2 | 4.25 |
| TVL-51 | 100/60/20 | 300/150/25 | 1 3/8 x 4 | 3.85 |
| TVL-23 | 40/20/10 | 350/300/200 | 1 3/8 x 2 | 2.90 |
| TVL-24 | 80+40/150 | 400/50 | 1 3/8 x 4 | 4.65 |
| TVL-30 | 40+40+10 | 450 | 1 3/8 x 3 1/2 | 4.65 |
| TVL-26 | 30/100+25 | 450/25 | 1 3/8 x 2 | 2.75 |
| TVL-52 | 10+10/40 | 450/50 | 1 x 2 1/2 | 2.85 |
| TVL-67 | 20+10/50 | 450/50 | 1 x 3 | 3.10 |
| TVL-29 | 40+10/40 | 450/50 | 1 3/8 x 2 1/2 | 3.25 |
| TVL-27 | 40/90+50 | 450/150 | 1 3/8 x 3 | 3.50 |
| TVL-54 | 40+40/40 | 450/150 | 1 3/8 x 3 1/2 | 4.65 |
| TVL-57 | 40/40/130 | 450/150/50 | 1 3/8 x 3 | 4.15 |
| TVL-25 | 40+10/80 | 450/200 | 1 3/8 x 3 | 3.65 |
| TVL-65 | 20+20/60 | 450/350 | 1 3/8 x 3 1/2 | 3.85 |
| TVL-53 | 40+10/10 | 450/350 | 1 3/8 x 3 | 3.50 |
| TVL-28 | 10/10/50 | 450/350/25 | 1 x 3 | 2.65 |
| TVL-56 | 10/30/30 | 450/400/300 | 1 3/8 x 2 1/2 | 3.10 |
| TVL-31 | 20/20/40 | 475/300/25 | 1 3/8 x 2 | 3.35 |
| TVL-32 | 40/40/25 | 475/400/50 | 1 3/8 x 3 | 4.65 |
| TVL-33 | 10+10+10 | 475 | 1 x 3 | 3.00 |
| TVL-55 | 30+30+20 | 475 | 1 3/8 x 3 | 5.20 |
| QUADRUPLE UNITS | | | | |
| TVL-60 | 60+40+20/50 | 300/25 | 1 3/8 x 3 1/2 | \$4.00 |
| TVL-34 | 10+10/10+10 | 350/300 | 1 3/8 x 2 | 3.10 |
| TVL-35 | 40/10/80+10 | 400/350/250 | 1 3/8 x 3 1/2 | 4.45 |
| TVL-36 | 10+10+10/10 | 450/150 | 1 3/8 x 2 | 3.05 |
| TVL-68 | 60+10+10/20 | 450/150 | 1 3/8 x 3 | 4.35 |
| TVL-59 | 40+10/35+10 | 450/350 | 1 3/8 x 3 1/2 | 5.10 |
| TVL-58 | 30+30+15+10 | 450 | 1 3/8 x 3 1/2 | 4.25 |
| TVL-37 | 10/10/80/50 | 475/450/200/50 | 1 3/8 x 3 | 4.60 |
| TVL-38 | 40+20+10/10 | 475/25 | 1 3/8 x 3 | 5.10 |
| TVL-39 | 10+10+10+10 | 475 | 1 3/8 x 2 | 3.95 |
| TVL-40 | 40+20+10+10 | 475 | 1 3/8 x 3 | 5.50 |

*Diameter x Length in Inches.

INSULATING TUBES

These closed-top black insulating sleeves are made of tightly fitting Kraft-board. Order with capacitors as required.

| Cat. No. | Description | Cat. No. | Description |
|----------|---------------------|----------|-------------------------|
| HKT-1 | For 1" x 2" can | HKT-5 | For 1 3/8" x 2 1/2" can |
| HKT-2 | For 1" x 2 1/2" can | HKT-6 | For 1 3/8" x 2 1/2" can |
| HKT-3 | For 1" x 3" can | HKT-7 | For 1 3/8" x 3" can |
| HKT-4 | For 1" x 4" can | HKT-8 | For 1 3/8" x 3 1/2" can |
| | | HKT-9 | For 1 3/8" x 4" can |

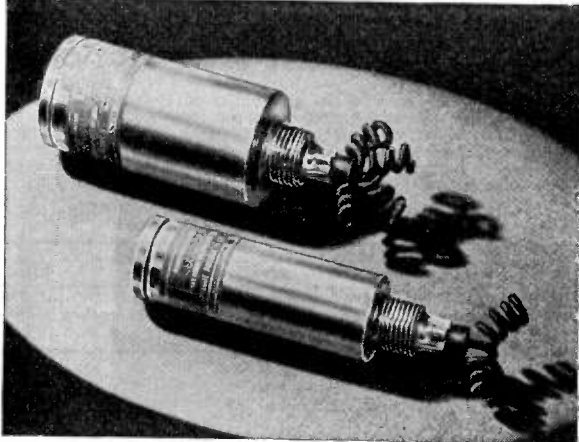
*Overall Diameter x Length in Inches.

★ Trademark ® T. M. Reg. U.S. Pat. Off.

SPRAGUE CAPACITORS



SPRAGUE PLS "TINY MIKE" 450V



Type PLS Capacitors can be used with complete dependability on applications where much larger, old-style can-type dry electrolytics were previously necessary. Their exceptional quality and dependability in minimum size are made possible by the exclusive Sprague etched foil process which permits high capacity with very small leakage currents and low power factor. Aluminum cans have threaded bushing and locknut at one end for mounting. Separate positive leads and common negative leads are provided for capacitor sections.

Special ring clamps are available for upright mounting. (See Hardware, page P-62.)

CONTINUOUS WORKING VOLTAGE 450 VOLTS
MAXIMUM SURGE VOLTAGE 525 VOLTS

| Catalog No. | Mfd. | Voltage | | Dimensions | | List Price |
|-------------|-------|------------|-------|------------|-------|------------|
| | | DC working | Surge | D | L | |
| PLS-4 | 4 | 450 | 525 | 1 3/8 | 2 1/8 | \$1.70 |
| PLS-8 | 8 | 450 | 525 | 1 3/8 | 2 1/8 | 1.75 |
| PLS-12 | 12 | 450 | 525 | 1 3/8 | 2 1/8 | 2.15 |
| PLS-16 | 16 | 450 | 525 | 1 3/8 | 2 1/8 | 2.40 |
| PLS-20 | 20 | 450 | 525 | 1 3/8 | 2 1/8 | 2.65 |
| PLS-25 | 25 | 450 | 525 | 1 3/8 | 3 1/8 | 2.85 |
| PLS-30 | 30 | 450 | 525 | 1 3/8 | 3 1/8 | 3.00 |
| PLS-40 | 40 | 450 | 525 | 1 3/8 | 3 1/8 | 3.40 |
| PLS-48 | 4-8 | 450 | 525 | 1 3/8 | 2 1/8 | 2.50 |
| PLS-88 | 8-8 | 450 | 525 | 1 1/2 | 2 1/8 | 2.75 |
| PLS-816 | 8-16 | 450 | 525 | 1 1/2 | 2 1/8 | 3.25 |
| PLS-216 | 16-16 | 450 | 525 | 1 1/2 | 3 1/8 | 3.50 |
| PLS-888 | 8-8-8 | 450 | 525 | 1 1/2 | 2 1/8 | 4.25 |

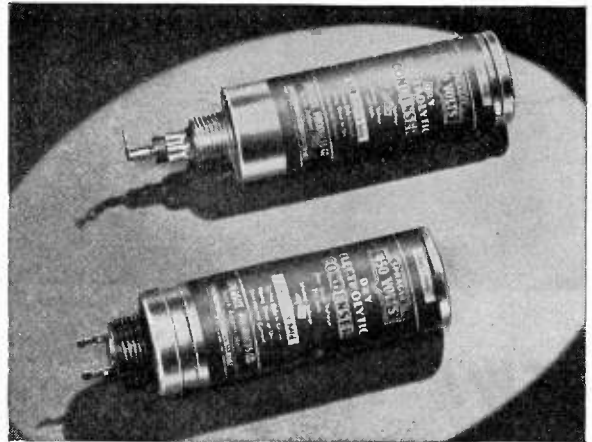
SPRAGUE LS ALUMINUM CAN TYPES, 450V

Popular units for replacing older can type capacitors. May be mounted in any position. Standard mounting through chassis by threaded bushing on can. Packed with mounting hardware and insulating washers for use where can must be insulated from chassis. Special ring mounting clamps are available for upright mounting with can partly extending through panels or chassis. (See Hardware, page P-62.)

TYPE LS UNITS have the can as negative terminal, and lug terminals for anode connections.

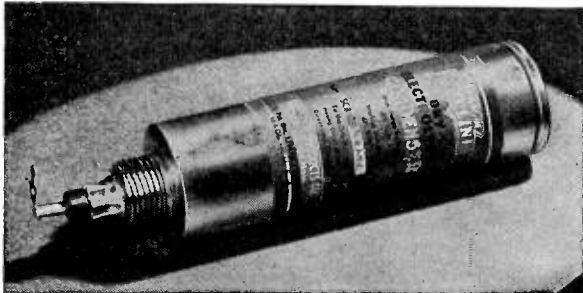
CONTINUOUS WORKING VOLTAGE 450 VOLTS
MAXIMUM SURGE VOLTAGE 525 VOLTS

| Catalog No. | Mfd. | Voltage | | Dimensions | | List Price |
|-------------|------|------------|-------|------------|-------|------------|
| | | DC working | Surge | D | L | |
| LS-8 | 8 | 450 | 525 | 1 3/8 | 2 1/8 | \$1.75 |
| LS-12 | 12 | 450 | 525 | 1 3/8 | 2 1/8 | 2.15 |
| LS-16 | 16 | 450 | 525 | 1 3/8 | 2 1/8 | 2.40 |
| LS-20 | 20 | 450 | 525 | 1 3/8 | 2 1/8 | 2.65 |
| LS-25 | 25 | 450 | 525 | 1 3/8 | 3 1/8 | 2.85 |
| LS-30 | 30 | 450 | 525 | 1 3/8 | 3 1/8 | 3.00 |
| LS-40 | 40 | 450 | 525 | 1 3/8 | 3 1/8 | 3.40 |
| LS-88 | 8-8 | 450 | 525 | 1 3/8 | 2 1/8 | 2.75 |



SPRAGUE SC INVERTED SCREW CAN MOUNTING TYPE, 475V

(WITH CAN AS NEGATIVE TERMINAL)



Can type dry electrolytics especially designed for the exacting continuous duty requirements of public address and power amplifier work. High surge voltage rating provides extra safety in high-current power supplies where high peaks often occur. Unexcelled for "extra tough" service replacement uses. Provided with threaded bushing for standard mounting in any position. Can is the negative terminal in all units. Positive terminal is lug connection. Supplied with mounting nut, and insulating washer to insulate can from chassis. Special ring clamps are available for upright mounting. (See Hardware, page P-62.)

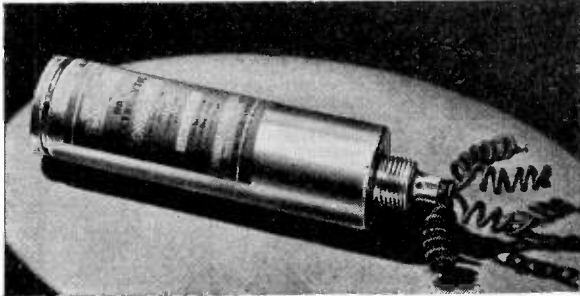
| Catalog No. | Mfd. | Voltage | | Dimensions | | List Price |
|-------------|------|------------|-------|------------|-------|------------|
| | | DC working | Surge | D | L | |
| SC-4 | 4 | 475 | 600 | 1 | 3 1/8 | \$1.90 |
| SC-8 | 8 | 475 | 600 | 1 3/8 | 4 1/8 | 2.25 |
| SC-12 | 12 | 475 | 600 | 1 3/8 | 4 1/8 | 3.15 |
| SC-16 | 16 | 475 | 600 | 1 1/2 | 4 1/8 | 3.50 |
| SC-88 | 8-8 | 475 | 600 | 1 3/8 | 4 1/8 | 3.65 |

CONTINUOUS WORKING VOLTAGE 475 VOLTS
MAXIMUM SURGE VOLTAGE 600 VOLTS

SPRAGUE CAPACITORS



SPRAGUE CL INVERTED SCREW CAN MOUNTING TYPE, 475V (WITH CAN INSULATED FROM SECTIONS)

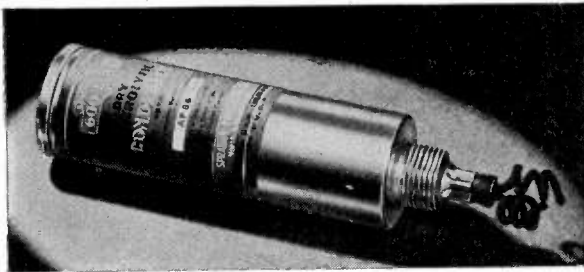


These can-type dry electrolytics are similar to Type SC Capacitors except that the can is insulated from the filter sections. Separate positive and negative terminal leads for each section. Especially recommended for high gain, high power amplifiers where minimum inter-stage coupling through power supply is desired. Special ring clamps are available for upright mounting. (See Hardware, p. P-62.)

CONTINUOUS WORKING VOLTAGE 475 VOLTS
MAXIMUM SURGE VOLTAGE 600 VOLTS

| Catalog No. | Mfd. | Voltage | | Dimensions | | List Price |
|-------------|------|------------|-------|------------|--------|------------|
| | | DC working | Surge | D | L | |
| CL-8 | 8 | 475 | 600 | 1 3/8 | 4 7/16 | \$2.25 |
| CL-16 | 16 | 475 | 600 | 1 1/2 | 4 7/16 | 3.50 |
| CL-88 | 8.8 | 475 | 600 | 1 1/2 | 4 1/8 | 3.65 |

SPRAGUE AP HIGH-VOLTAGE CAN TYPES, 600V



These sturdy can-type units are outstandingly popular for all public address and theater applications where the working voltage is high and surges run well over 600 volts. These high capacities and high voltage ratings are obtained by use of balanced dry electrolytic sections connected in series, assuring long, trouble-free performance. Full capacity, full working voltage and low power factor are GUARANTEED.

CONTINUOUS WORKING VOLTAGE 600 VOLTS
MAXIMUM SURGE VOLTAGE 800 VOLTS

| Catalog No. | Mfd. | Voltage | | Dimensions | | List Price |
|-------------|------|------------|-------|------------|-------|------------|
| | | DC working | Surge | D | L | |
| AP-46 | 4 | 600 | 800 | 1 | 4 7/8 | \$3.00 |
| AP-86 | 8 | 600 | 800 | 1 3/8 | 4 7/8 | 4.00 |
| AP-16 | 16 | 600 | 800 | 1 1/2 | 4 7/8 | 5.00 |

NEW! SPRAGUE TO-3 DELUXE TEL-OHMIKE

Universal Capacitance and Resistor
Analyzer with Built-in DC
Volt-milliammeter



\$59.70 net

This fast, simplified operation is the keynote of the new TO-3 De Luxe Tel-ohmike. "Speedy check" locates open, intermittent, or shorted condensers WITHOUT REMOVING THEM FROM THE CIRCUIT. One pair of plainly marked binding posts and a total of only five controls assure quick, effective operation on all tests. Dial is of direct-reading, calibrated type, color coded to correspond to selector switch. It is easy to see, easy to read. In addition to all of its uses in radio work, Tel-ohmike checks motor-starting condensers, and measures insulation resistance of motors, transformers, etc.

SPECIFICATIONS

Capacity: .00001-2,000 MFD.
in 4 ranges.

Power Factor: 0-50% at 60 cycles.

Insulation Resistance: 0-2500 Megohms (Direct reading on the meter).

Electrolytic Leakage: Measured in MA. at rated D.C. voltage. Capacity and power factor of electrolytic condensers

measured with rated polarizing voltage applied.

Resistance: 2.5 Ohms-25 Megs. in 3 ranges.

D.C. Meter Range: 0-15, 150, 750 volts — 0-1.5, 15, 75 MA.

Size: 18 1/4" wide, 10 1/2" high, — 5" deep.

Power: 35 watts at 115 volts — 60 cycle.

Shipping Weight: 15 lbs.

SPRAGUE PRODUCTS COMPANY, NORTH ADAMS, MASS.

SPRAGUE CAPACITORS



SPRAGUE MOLDED TELECAPS

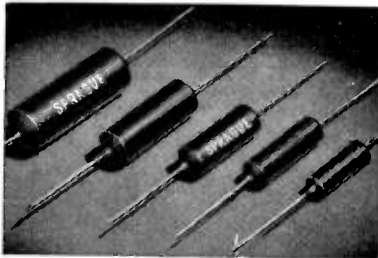
Greatest Paper Tubular Advance in 20 Years!

Highly Heat Resistant
Moisture Resistant
Non-Inflammable

Conservatively Rated
Small in Size
Mechanically Rugged

Completely Insulated

The new Sprague Molded Tubulars listed here are the result of more than four years' intensive research — and one of the largest retooling programs in Sprague history! The unique high-temperature molded construction of these units assures maximum dependability, even under extremes of heat, humidity, and physical stress. They're especially recommended for use in auto radios, in small ac-dc sets that get hot, or for any application which is "tough" on normal, waxed paper units.



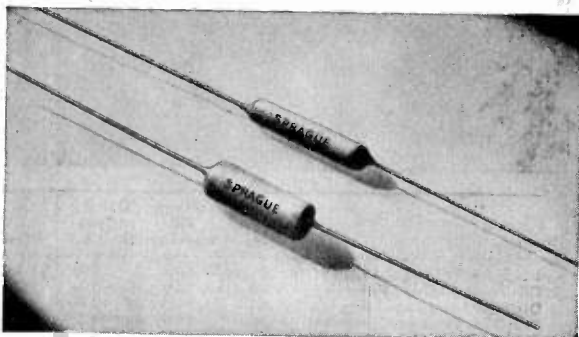
TYPE TM — 600 VOLTS

| Catalog No. | Mfd. | Voltage DC Working | Dimensions D | L | List Price |
|-------------|--------|--------------------|--------------|-------|------------|
| * TC-31 | .0001 | 600 | 3/8 | 1 1/8 | \$0.25 |
| * TC-325 | .00025 | 600 | 3/8 | 1 1/8 | .25 |
| * TC-34 | .0004 | 600 | 3/8 | 1 1/8 | .25 |
| * TC-35 | .0005 | 600 | 3/8 | 1 1/8 | .25 |
| TM-21 | .001 | 600 | 1/2 | 1 | .25 |
| TM-22 | .002 | 600 | 1/2 | 1 | .25 |
| TM-23 | .003 | 600 | 1/2 | 1 | .25 |
| TM-24 | .004 | 600 | 1/2 | 1 | .25 |
| TM-25 | .005 | 600 | 1/2 | 1 1/4 | .25 |
| TM-26 | .006 | 600 | 1/2 | 1 1/4 | .25 |

SPRAGUE 68P MIDGET* TUBULARS WHERE SPACE IS AT A PREMIUM

Sprague 68P type capacitors are the ultimate in extra small paper tubular capacitors. These midget capacitors are especially designed for miniature radio applications where space saving is a prime factor. These units are of fundamentally new engineering design and construction. The outstanding humidity performance which these capacitors exhibit is a result of this new construction.

* Trade Mark



TYPE TM — (Continued)

| Catalog No. | Mfd. | Voltage DC working | Dimensions D | L | List Price |
|-------------|------|--------------------|--------------|-------|------------|
| TM-11 | .01 | 600 | 3/8 | 1 1/4 | \$0.30 |
| TM-12 | .02 | 600 | 1/2 | 1 1/4 | .30 |
| TM-13 | .03 | 600 | 1/2 | 1 1/4 | .35 |
| TM-14 | .04 | 600 | 1/2 | 1 1/2 | .35 |
| TM-15 | .05 | 600 | 1/2 | 1 1/2 | .40 |
| TM-16 | .06 | 600 | 5/8 | 1 7/8 | .40 |
| TM-1 | .1 | 600 | 5/8 | 1 7/8 | .45 |
| * TC-2 | .25 | 600 | 3/4 | 2 1/2 | .55 |
| * TC-5 | .5 | 600 | 1 1/8 | 2 7/8 | .80 |
| * TC-10 | 1.0 | 600 | 1 | 2 3/8 | 1.25 |

* Supplied in waxed cardboard units pending completion of molds.

TYPE MB — 1600 VOLTS

| | | | | | |
|----------|----------|------|-------|-------|--------|
| * TR-35 | .0005 | 1600 | 3/8 | 1 1/4 | \$0.55 |
| * TR-21 | .001 | 1600 | 3/8 | 1 3/8 | .55 |
| MB-22 | .002 | 1600 | 3/8 | 1 3/4 | .55 |
| MB-23 | .003 | 1600 | 3/8 | 1 3/4 | .55 |
| MB-24 | .004 | 1600 | 3/8 | 1 3/4 | .55 |
| MB-25 | .005 | 1600 | 1/2 | 1 3/4 | .55 |
| MB-26 | .006 | 1600 | 1/2 | 1 3/4 | .55 |
| MB-27 | .007 | 1600 | 1/2 | 1 3/4 | .55 |
| MB-275 | .0075 | 1600 | 1/2 | 1 3/4 | .55 |
| MB-28 | .008 | 1600 | 1/2 | 1 3/4 | .60 |
| MB-11 | .01 | 1600 | 1/2 | 1 3/4 | .60 |
| MB-115 | .015 | 1600 | 1/2 | 1 3/4 | .60 |
| MB-12 | .02 | 1600 | 5/8 | 1 7/8 | .60 |
| MB-13 | .03 | 1600 | 5/8 | 1 7/8 | .60 |
| * TR-14 | .04 | 1600 | 1 1/8 | 2 1/8 | .70 |
| * TR-15 | .05 | 1600 | 1 1/8 | 2 1/8 | .70 |
| * TR-215 | 2 x .015 | 1600 | 3/4 | 2 | .80 |

* Supplied in waxed cardboard units pending completion of molds.

TYPE TVM — 6 AND 10 KV

| | | | | | |
|---------|-------|-------|-----|-------|--------|
| TVM-356 | .0005 | 6000 | 1/2 | 1 1/2 | \$1.35 |
| TVM-216 | .001 | 6000 | 1/2 | 1 1/2 | 1.35 |
| TVM-256 | .005 | 6000 | 1/2 | 1 3/8 | 1.35 |
| TVM-351 | .0005 | 10000 | 5/8 | 1 3/8 | 1.50 |

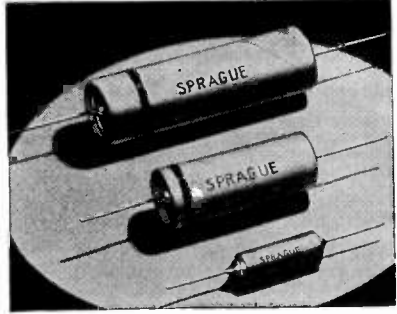
| Catalog No. | Mfd. | Voltage DC working | Dimensions D | L | List Price |
|-------------|------|--------------------|--------------|-------|------------|
| 68P26 | .001 | 600 | 1/4 | 1 1/8 | \$0.35 |
| 68P27 | .002 | 600 | 1/4 | 1 1/8 | .35 |
| 68P28 | .003 | 600 | 3/8 | 1 1/8 | .35 |
| 68P29 | .004 | 600 | 3/8 | 1 1/8 | .35 |
| 68P30 | .005 | 600 | 3/8 | 1 1/8 | .40 |
| 68P31 | .006 | 600 | 1/2 | 1 1/8 | .40 |
| 68P32 | .008 | 600 | 1/2 | 1 | .40 |
| 68P33 | .01 | 600 | 1/2 | 1 | .45 |
| 68P34 | .02 | 600 | 1/2 | 1 | .50 |
| 68P35 | .05 | 600 | 5/8 | 1 1/8 | .55 |
| 68P36 | .1 | 600 | 5/8 | 1 1/8 | .70 |
| 68P40 | .2 | 600 | 5/8 | 1 1/8 | .80 |
| 68P37 | .25 | 600 | 5/8 | 2 | .80 |
| 68P1 | .001 | 400 | 1/4 | 1 1/8 | .35 |
| 68P3 | .003 | 400 | 1/4 | 1 1/8 | .35 |
| 68P4 | .004 | 400 | 1/4 | 1 1/8 | .35 |
| 68P5 | .005 | 400 | 1/4 | 1 1/8 | .35 |
| 68P6 | .005 | 400 | 1/4 | 1 1/8 | .35 |
| 68P8 | .01 | 400 | 1/2 | 1 1/8 | .40 |
| 68P9 | .02 | 400 | 1/2 | 1 1/8 | .45 |
| 68P10 | .05 | 400 | 1/2 | 1 1/8 | .50 |
| 68P21 | .1 | 400 | 1/2 | 1 1/8 | .65 |
| 68P38 | .2 | 400 | 5/8 | 1 1/8 | .70 |
| 68P22 | .25 | 400 | 5/8 | 1 3/8 | .75 |
| 68P23 | .5 | 400 | 5/8 | 2 1/8 | .85 |
| 68P11 | .005 | 200 | 1/4 | 1 1/8 | .35 |
| 68P12 | .006 | 200 | 1/4 | 1 1/8 | .35 |
| 68P14 | .01 | 200 | 1/4 | 1 1/8 | .40 |
| 68P15 | .02 | 200 | 3/8 | 1 1/8 | .45 |
| 68P16 | .05 | 200 | 3/8 | 1 1/8 | .45 |
| 68P17 | .1 | 200 | 1/2 | 1 1/8 | .50 |
| 68P18 | .2 | 200 | 1/2 | 1 1/8 | .60 |
| 68P24 | .25 | 200 | 1/2 | 1 1/8 | .65 |
| 68P25 | .5 | 200 | 1/2 | 1 1/8 | .70 |
| 68P19 | .25 | 100 | 1/2 | 1 1/8 | .80 |
| 68P20 | .5 | 100 | 1/2 | 1 1/8 | .80 |

SPRAGUE CAPACITORS



SPRAGUE PX HERMETICALLY-SEALED OIL-IMPREGNATED METAL TUBULARS, 600V AND 1000V DC

Here is your answer to every need calling for higher-voltage tubular capacitors in the smallest possible size for real dependability under difficult operating conditions. Sprague Type PX Capacitors consist of specially wound sections, impregnated with an exclusive Sprague oil and hermetically sealed in metal containers for long trouble-free service. Each unit is supplied with an external sleeve to insulate it from the chassis and other metal parts. Mounting may be made by means of the tinned copper leads 2 1/2" long, or by standard Sprague Mounting straps (see Hardware page P-62).



| Catalog No. | Mfd. | Voltage DC working | Dimensions | | List Price |
|-------------|--------|--------------------|------------|-------|------------|
| | | | D | L | |
| PX-316 | .0001 | 600 | 1/2 | 1 1/4 | \$0.95 |
| PX-3256 | .00025 | 600 | 1/2 | 1 1/4 | .95 |
| PX-356 | .0005 | 600 | 1/2 | 1 1/4 | .95 |
| PX-216 | .001 | 600 | 1/2 | 1 1/4 | .95 |
| PX-226 | .002 | 600 | 1/2 | 1 1/4 | .95 |
| PX-236 | .003 | 600 | 1/2 | 1 1/4 | .95 |
| PX-246 | .004 | 600 | 1/2 | 1 1/4 | .95 |
| PX-256 | .005 | 600 | 1/2 | 1 1/4 | .95 |
| PX-266 | .006 | 600 | 1/2 | 1 1/4 | .95 |
| PX-276 | .007 | 600 | 1/2 | 1 1/4 | .95 |
| PX-286 | .008 | 600 | 1/2 | 1 1/4 | .95 |
| PX-296 | .009 | 600 | 1/2 | 1 1/4 | .95 |
| PX-116 | .01 | 600 | 1/2 | 1 1/4 | .95 |
| PX-126 | .02 | 600 | 1/2 | 1 3/4 | 1.05 |
| PX-136 | .03 | 600 | 5/8 | 1 5/8 | 1.10 |
| PX-146 | .04 | 600 | 5/8 | 1 5/8 | 1.10 |
| PX-156 | .05 | 600 | 5/8 | 1 5/8 | 1.10 |
| PX-166 | .06 | 600 | 5/8 | 1 5/8 | 1.20 |
| PX-186 | .08 | 600 | 5/8 | 1 5/8 | 1.20 |
| PX-16 | .1 | 600 | 5/8 | 1 5/8 | 1.25 |
| PX-26 | .25 | 600 | 1 1/8 | 2 1/8 | 1.70 |
| PX-56 | .5 | 600 | 1 1/8 | 2 1/8 | 2.20 |
| PX-106 | 1.0 | 600 | 1 1/8 | 3 1/8 | 3.00 |
| PX-311 | .0001 | 1000 | 1 1/8 | 1 1/4 | 1.10 |
| PX-3251 | .00025 | 1000 | 1 1/8 | 1 1/4 | 1.10 |
| PX-351 | .0005 | 1000 | 1 1/8 | 1 1/4 | 1.10 |
| PX-211 | .001 | 1000 | 1 1/8 | 1 1/4 | 1.10 |
| PX-221 | .002 | 1000 | 1 1/8 | 1 1/4 | 1.10 |
| PX-231 | .003 | 1000 | 1 1/8 | 1 1/4 | 1.10 |

| Catalog No. | Mfd. | Voltage DC working | Dimensions | | List Price |
|-------------|-------|--------------------|------------|-------|------------|
| | | | D | L | |
| PX-241 | .004 | 1000 | 1 1/8 | 1 3/4 | 1.10 |
| PX-251 | .005 | 1000 | 1 1/8 | 1 3/4 | 1.10 |
| PX-261 | .006 | 1000 | 1 1/8 | 1 3/4 | 1.10 |
| PX-271 | .007 | 1000 | 1 1/8 | 1 3/4 | 1.10 |
| PX-281 | .008 | 1000 | 1 1/8 | 1 3/4 | 1.10 |
| PX-291 | .009 | 1000 | 1 1/8 | 1 3/4 | 1.10 |
| PX-111 | .01 | 1000 | 1 1/8 | 1 3/4 | 1.10 |
| PX-121 | .02 | 1000 | 5/8 | 1 5/8 | 1.20 |
| PX-131 | .03 | 1000 | 1 1/8 | 1 3/4 | 1.20 |
| PX-141 | .04 | 1000 | 1 1/8 | 1 3/4 | 1.20 |
| PX-151 | .05 | 1000 | 1 1/8 | 1 3/4 | 1.30 |
| PX-161 | .06 | 1000 | 1 1/8 | 2 | 1.35 |
| PX-181 | .08 | 1000 | 1 1/8 | 2 | 1.40 |
| PX-11 | .1 | 1000 | 1 1/8 | 2 | 1.50 |
| PX-21 | .25 | 1000 | 1 1/8 | 2 1/8 | 2.00 |
| PX-51 | .5 | 1000 | 1 1/8 | 3 1/8 | 2.85 |
| PX-2215 | .002 | 1500 | 5/8 | 1 3/4 | 1.20 |
| PX-2515 | .005 | 1500 | 5/8 | 1 3/4 | 1.20 |
| PX-1115 | .01 | 1500 | 1 1/8 | 1 3/4 | 1.20 |
| PX-1215 | .02 | 1500 | 1 1/8 | 1 3/4 | 1.30 |
| PX-352 | .0006 | 2000 | 1 1/8 | 1 3/4 | 1.25 |
| PX-212 | .001 | 2000 | 1 1/8 | 1 3/4 | 1.25 |
| PX-252 | .005 | 2000 | 1 1/8 | 1 3/4 | 1.25 |
| PX-262 | .006 | 2000 | 1 1/8 | 1 3/4 | 1.25 |
| PX-2752 | .0075 | 2000 | 1 1/8 | 1 3/4 | 1.25 |
| PX-112 | .01 | 2000 | 1 1/8 | 1 3/4 | 1.25 |
| PX-122 | .02 | 2000 | 1 1/8 | 2 1/8 | 1.35 |
| PX-132 | .03 | 2000 | 1 1/8 | 2 1/8 | 1.40 |
| PX-142 | .04 | 2000 | 1 1/8 | 2 1/8 | 1.40 |
| PX-152 | .05 | 2000 | 1 1/8 | 2 1/8 | 1.45 |

SPRAGUE AR & LR AUTO GENERATOR AND VIBRATOR TYPES

Exceptionally sturdy design to withstand the bouncing and vibration of automobile use is a feature of these Automobile Generator and Vibrator types. They are oil-impregnated and metal-encased for long service under difficult conditions of heat and humidity.

AR (GENERATOR TYPES)

| Catalog No. | Mfd. | Voltage DC working | Dimensions | | List Price |
|-------------|-------|--------------------|------------|-------|------------|
| | | | D | L | |
| AR-1 | 1.0 | 400 | 1 | 2 1/8 | \$0.90 |
| AR-2 | .5 | 400 | 1 1/8 | 1 3/8 | .65 |
| AR-25 | .5-.5 | 400 | 1 | 2 1/8 | 1.00 |
| AR-Ford | .5 | 400 | 1 1/8 | 1 3/8 | .85 |

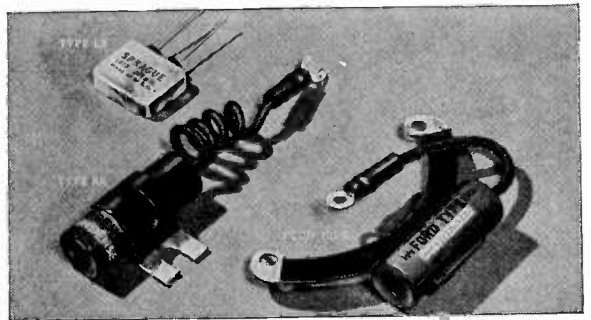
LR (VIBRATOR TYPES)

| Catalog No. | Mfd. | Voltage DC working | Dimensions | | | List Price |
|-------------|------|--------------------|------------|-----|-------|------------|
| | | | D | L | R | |
| LR-11 | .01 | 1600 | 3/4 | 7/8 | 1 1/8 | \$0.80 |
| LR-12 | .02 | 1600 | 3/4 | 7/8 | 1 1/8 | .80 |
| LR-27 | .007 | 1600 | 3/4 | 7/8 | 1 1/8 | .80 |

SPRAGUE SPECIAL AUTOMOBILE TYPES

Designed for special automobile services as indicated in the table, the Sprague capacitors listed at the right are equipped with suitable mounting features.

The Ford Type has a special mounting bracket to accommodate cars of this make. All units are conservatively rated, and designed to withstand high surge voltages. Full capacity-true voltage ratings.

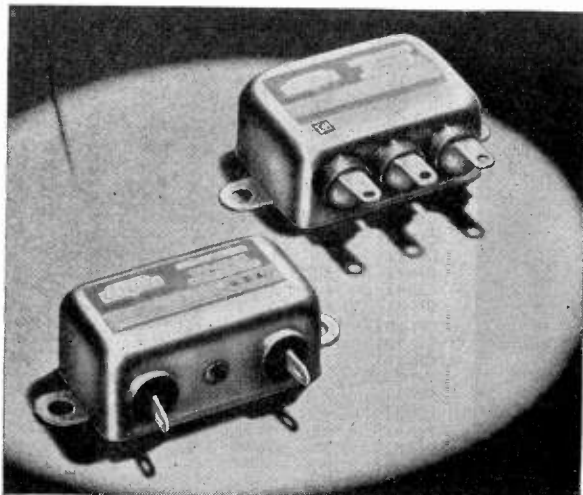


| Catalog No. | Mfd. | Voltage DC working | Dimensions | | List Price |
|-----------------------------|-------------|--------------------|------------|-------|------------|
| | | | D | L | |
| DL-1—Dome Light Filter | .2 | 200 | 1 | 2 1/8 | \$1.10 |
| GG-5—Gas Gauge Filter | .05 | 200 | 1 1/8 | 1 3/8 | .50 |
| OG-50—Oil Gauge Filter | .25 | 200 | 1 1/8 | 1 7/8 | .60 |
| P-2077—Ford Replacement | .5 | 200 | 1 1/8 | 1 7/8 | .65 |
| P-3402—Ammeter Capacitor | .5 | 200 | 1 1/8 | 2 | .65 |
| P-2153—Motorola Replacement | .0008-.0008 | 1000 | 3/4 | 1 3/8 | .65 |

SPRAGUE CAPACITORS



SPRAGUE BP METAL-ENCASED BATHTUB UNITS (WITH SIDE TERMINALS)



These popular units are styled for use where the most severe conditions of heat and moisture must be met. They are oil impregnated and filled with KVO*. Mounting flanges or ears are integral parts of the containers.

* Trademark applied for.

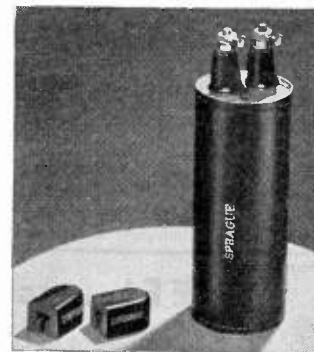
| Catalog No. | Mfd. | Voltage DC working | Dimensions | | | List Price |
|-------------|-------------|--------------------|------------|-------|-------|------------|
| | | | L | W | H | |
| BP-1 | .1 | 400 | 1 1/8 | 1 | 3/4 | \$1.75 |
| BP-25 | .25 | 400 | 1 1/8 | 1 | 1 3/4 | 2.00 |
| BP-50 | .5 | 400 | 1 1/8 | 1 | 7/8 | 2.15 |
| BP-10 | 1.0 | 400 | 2 | 1 3/4 | 7/8 | 2.60 |
| BP-21 | 1-1 | 400 | 1 1/8 | 1 | 3/4 | 2.75 |
| BP-225 | .25-.25 | 400 | 1 1/8 | 1 | 7/8 | 3.00 |
| BP-250 | .5-.5 | 400 | 2 | 1 3/4 | 7/8 | 3.50 |
| BP-31 | 1-1-1 | 400 | 1 1/8 | 1 | 3/4 | 3.40 |
| BP-56 | .05 | 600 | 1 1/8 | 1 | 3/4 | 2.60 |
| BP-16 | .1 | 600 | 1 1/8 | 1 | 3/4 | 2.65 |
| BP-256 | .25 | 600 | 1 1/8 | 1 | 3/4 | 2.80 |
| BP-506 | .5 | 600 | 1 1/8 | 1 | 7/8 | 3.00 |
| BP-106 | 1.0 | 600 | 2 | 1 3/4 | 7/8 | 3.40 |
| BP-206 | 2.0 | 600 | 2 | 2 | 1 1/8 | 4.55 |
| BP-2056 | .05-.05 | 600 | 1 1/8 | 1 | 3/4 | 3.30 |
| BP-216 | 1-1 | 600 | 1 1/8 | 1 | 3/4 | 3.35 |
| BP-2256 | .25-.25 | 600 | 1 1/8 | 1 | 7/8 | 3.40 |
| BP-2506 | .5-.5 | 600 | 2 | 1 3/4 | 7/8 | 3.90 |
| BP-116 | 1.0-1.0 | 600 | 2 | 2 | 1 1/8 | 4.80 |
| BP-316 | 1-1-1 | 600 | 1 1/8 | 1 | 3/4 | 3.80 |
| BP-3256 | .25-.25-.25 | 600 | 2 | 1 3/4 | 7/8 | 4.30 |
| BP-356 | .5-.5-.5 | 600 | 2 | 2 | 1 1/8 | 5.20 |
| BP-51 | .05 | 1000 | 1 1/8 | 1 | 3/4 | 2.75 |
| BP-11 | .1 | 1000 | 1 1/8 | 1 | 3/4 | 2.85 |
| BP-251 | .25 | 1000 | 1 1/8 | 1 | 3/4 | 2.95 |
| BP-501 | .5 | 1000 | 2 | 1 3/4 | 7/8 | 3.20 |
| BP-101 | 1.0 | 1000 | 2 | 2 | 1 1/8 | 4.00 |
| BP-2051 | .05-.05 | 1000 | 1 1/8 | 1 | 3/4 | 3.50 |
| BP-211 | 1-1 | 1000 | 1 1/8 | 1 | 3/4 | 3.60 |
| BP-2251 | .25-.25 | 1000 | 2 | 1 3/4 | 7/8 | 3.80 |
| BP-2501 | .5-.5 | 1000 | 2 | 2 | 1 1/8 | 4.95 |
| BP-311 | 1-1-1 | 1000 | 1 1/8 | 1 | 7/8 | 4.15 |
| BP-3251 | .25-.25-.25 | 1000 | 2 | 2 | 1 1/8 | 5.00 |

SPRAGUE OT POPULAR, INEXPENSIVE ROUND CAN TRANSMITTING TYPES, 600V TO 3000V

| Catalog No. | Mfd. | Voltage DC working | D | Dimensions | | List Price |
|-------------|------|--------------------|-------|------------|-------|------------|
| | | | | L | R | |
| OT-26 | 2 | 600 | 2 | 2 1/8 | 1 1/4 | \$4.95 |
| OT-11 | 1 | 1000 | 2 | 2 1/8 | 1 1/4 | 4.20 |
| OT-21 | 2 | 1000 | 2 | 3 1/8 | 1 1/4 | 5.70 |
| OT-41 | 4 | 1000 | 2 | 5 1/8 | 1 1/4 | 7.25 |
| OT-515 | 0.5 | 1500 | 2 | 2 1/8 | 1 1/4 | 4.55 |
| OT-115 | 1 | 1500 | 2 | 2 1/8 | 1 1/4 | 5.30 |
| OT-215 | 2 | 1500 | 2 | 4 1/8 | 1 1/4 | 7.25 |
| OT-12 | 1 | 2000 | 2 | 4 3/8 | 1 1/4 | 6.85 |
| OT-22 | 2 | 2000 | 2 1/2 | 4 3/8 | 1 1/2 | 7.60 |
| OT-13 | 1 | 3000 | 2 1/2 | 4 3/8 | 1 1/2 | 13.75 |

Long a favorite with amateurs, broadcasters, etc., throughout the world. Impregnated and filled with KVO*. Rated to conform with tube and circuit design requirements. As with other Sprague high-voltage transmitting types, each unit is equipped with ceramic terminals and LIFE GUARD Safety Caps. Mounting clamp is provided. Unconditionally guaranteed when used as specified.

* Trademark applied for.



OTHER SPRAGUE TYPES

SPRAGUE, largest supplier of capacitors to the television and electronic industry, manufactures many other designs of capacitors in addition to those shown here.

The most popular types for industrial and laboratory applications are shown in Sprague Products' 40-page Industrial Catalog No. C-551, available through Sprague Distributors Everywhere, or directly from Sprague upon letterhead request. In this catalog are listed such Sprague developments as PROKAR* high-temperature capacitors, carrier-current coupling capacitors, Vitamin Q* fluorescent lamp capacitors, high-voltage Vitamin Q* capacitors, resonant paper capacitors, etc.

* Trade Mark Reg. U. S. Patent Office.

SPRAGUE PRODUCTS COMPANY North Adams, Mass.

(Distributors' Division of the Sprague Electric Company)

SPRAGUE CAPACITORS



OIL-FILLED TRANSMITTING CAPACITORS

Filled with

KVO

(KILO-VOLT-OIL — The Sprague wartime research oil development)

SPRAGUE CR

(With Universal Mounting Feature)

An oil-filled transmitting capacitor is no better—and Sprague brings you the best! KVO*—Kilo Volt Oil—is the result of extensive laboratory research and engineering tests and has proved its excellence throughout the world during the war in capacitors used on practically every type of equipment. KVO retains its dielectric efficiency at low temperatures to a greater extent than any other type of oil in common use. High insulation resistance and low power factor are maintained over a very broad range of operating temperatures. Oil-filled capacitors are essential for high-voltage use, and you can rely upon Sprague KVO units under all conditions. Terminals are insulated from the cans for AT LEAST TWICE the working voltage. Capacitor sections are hermetically sealed in sturdy rectangular metal cans which can be automatically grounded through the mounting clamps.

For special industrial applications, where extremely high insulation resistance requirements must be met, Sprague can supply special dielectric materials.



CR Capacitors are of convenient rectangular shape and have handy adjustable universal flanges for mounting in any position. Each unit is labelled with operating information based on industry standards and, in accordance with Sprague custom, ALL RATINGS ARE CONSERVATIVE. No need to "play safe" by buying most costly, higher-voltage transmitting capacitors than you actually need.

Unconditionally guaranteed against breakdown when used as specified.

*Trademark applied for.

FREE! LIFEGUARD PROTECTIVE CAPS

Don't run any chance of getting hold of a "hot one!" Each Sprague Type KVO Capacitor comes to you equipped with the famous Sprague "Lifeguard" Protective Insulating Caps at no extra charge. They afford maximum protection at all times.

BUY LIFEGUARDS FOR YOUR OLD CAPACITORS
LG-1—List price per pair, 30¢

| Catalog No. | Mfd. | Voltage DC working | Dimensions— T W L | List Price |
|-------------|------|--------------------|----------------------|------------|
| CR-056 | .5 | 600 | 1 1/8 1 1/8 2 1/4 | \$4.15 |
| CR-16 | 1.0 | 600 | 1 1/8 1 1/8 2 1/4 | 5.30 |
| CR-26 | 2.0 | 600 | 1 1/8 1 1/8 2 1/8 | 6.45 |
| CR-36 | 3.0 | 600 | 1 1/8 1 1/8 3 1/4 | 7.60 |
| CR-46 | 4.0 | 600 | 1 1/8 1 1/8 3 1/2 | 8.35 |
| CR-66 | 6.0 | 600 | 1 1/8 2 1/2 4 3/4 | 10.25 |
| CR-86 | 8.0 | 600 | 1 1/8 3 3/4 3 7/8 | 12.15 |
| CR-106 | 10.0 | 600 | 1 1/8 3 3/4 4 3/4 | 13.65 |
| CR-011 | .1 | 1000 | 1 1/8 1 1/8 1 7/8 | 3.80 |
| CR-0251 | .25 | 1000 | 1 1/8 1 1/8 2 1/4 | 4.15 |
| CR-051 | .5 | 1000 | 1 1/8 1 1/8 2 1/4 | 4.55 |
| CR-11 | 1.0 | 1000 | 1 1/8 1 1/8 2 1/4 | 5.70 |
| CR-21 | 2.0 | 1000 | 1 1/8 1 1/8 3 3/8 | 7.60 |
| CR-41 | 4.0 | 1000 | 1 1/8 2 1/2 4 3/4 | 9.50 |
| CR-81 | 8.0 | 1000 | 1 1/8 3 3/4 4 3/4 | 13.65 |
| CR-101 | 10.0 | 1000 | 1 3/8 3 3/4 4 3/4 | 15.20 |
| CR-121 | 12.0 | 1000 | 2 1/4 3 3/4 4 1/2 | 16.45 |
| CR-151 | 15.0 | 1000 | 2 1/2 3 3/4 4 3/4 | 18.25 |
| CR-0515 | .5 | 1500 | 1 1/8 1 1/8 2 7/8 | 5.70 |
| CR-115 | 1.0 | 1500 | 1 1/8 1 1/8 3 7/8 | 6.85 |
| CR-215 | 2.0 | 1500 | 1 1/8 2 1/2 4 1/4 | 9.50 |
| CR-415 | 4.0 | 1500 | 1 1/8 3 3/4 4 3/4 | 12.65 |
| CR-515 | 5.0 | 1500 | 1 1/8 3 3/4 4 3/4 | 13.65 |
| CR-815 | 8.0 | 1500 | 2 1/2 3 3/4 4 3/4 | 19.00 |
| CR-1015 | 10.0 | 1500 | 3 3/8 3 3/4 4 3/4 | 22.80 |
| CR-012 | .1 | 2000 | 1 1/8 2 1/2 2 1/2 | 6.05 |
| CR-0252 | .25 | 2000 | 1 1/8 2 1/2 2 1/2 | 6.45 |
| CR-052 | .5 | 2000 | 1 1/8 2 1/2 2 7/8 | 6.85 |
| CR-12 | 1.0 | 2000 | 1 1/8 2 1/2 3 1/2 | 8.35 |
| CR-22 | 2.0 | 2000 | 1 1/8 3 3/4 4 1/4 | 9.85 |
| CR-32 | 3.0 | 2000 | 1 1/8 3 3/4 4 3/4 | 12.15 |
| CR-42 | 4.0 | 2000 | 2 1/4 3 3/4 3 7/8 | 13.65 |
| CR-62 | 6.0 | 2000 | 3 3/8 3 3/4 4 1/2 | 17.85 |
| CR-102 | 10.0 | 2000 | 4 3/8 3 3/4 4 3/4 | 27.85 |
| CR-0125 | .1 | 2500 | 1 1/8 2 1/2 2 1/2 | 9.35 |
| CR-0525 | .5 | 2500 | 1 1/8 3 3/4 3 1/4 | 10.65 |
| CR-125 | 1.0 | 2500 | 1 3/8 3 3/4 3 1/4 | 12.15 |
| CR-225 | 2.0 | 2500 | 1 3/8 3 3/4 4 3/4 | 19.60 |
| CR-425 | 4.0 | 2500 | 4 3/8 3 3/4 4 3/4 | 27.20 |
| CR-013 | .1 | 3000 | 1 1/8 2 1/2 2 1/2 | 12.65 |
| CR-0253 | .25 | 3000 | 1 3/8 2 1/2 2 7/8 | 13.65 |
| CR-053 | .5 | 3000 | 1 1/8 2 1/2 4 1/4 | 15.20 |
| CR-13 | 1.0 | 3000 | 2 1/4 3 3/4 3 7/8 | 18.25 |
| CR-23 | 2.0 | 3000 | 3 3/8 3 3/4 4 1/2 | 22.80 |
| CR-43 | 4.0 | 3000 | 4 3/8 3 3/4 4 3/4 | 33.40 |
| CR-014 | .1 | 4000 | 2 1/4 3 3/4 2 3/4 | 22.80 |
| CR-0254 | .25 | 4000 | 2 1/4 3 3/4 2 3/4 | 24.05 |
| CR-054 | .5 | 4000 | 2 1/4 3 3/4 3 7/8 | 27.20 |
| CR-14 | 1.0 | 4000 | 2 1/4 3 3/4 5 1/8 | 33.40 |
| CR-24 | 2.0 | 4000 | 4 3/8 3 3/4 5 1/8 | 42.40 |
| CR-025 | .2 | 5000 | 1 3/8 3 3/4 3 7/8 | 27.20 |
| CR-055 | .5 | 5000 | 2 1/4 3 3/4 4 1/2 | 30.40 |
| CR-15 | 1.0 | 5000 | 4 3/8 3 3/4 4 3/8 | 38.00 |
| CR-25 | 2.0 | 5000 | 4 3/8 3 3/4 6 | 48.60 |
| CR-0160 | .1 | 6000 | 2 1/4 3 3/4 3 3/8 | 30.40 |
| CR-0260 | .2 | 6000 | 1 3/8 3 3/4 4 1/4 | 38.00 |
| CR-160 | 1.0 | 6000 | 4 3/8 3 3/4 7 1/2 | 75.95 |
| CR-0175 | .1 | 7500 | 2 1/4 3 3/4 3 7/8 | 43.05 |
| CR-0275 | .2 | 7500 | 1 3/8 3 3/4 4 3/4 | 45.60 |



SPRAGUE PC INVERTED ROUND SCREW CAN TRANSMITTING TYPES, 600V TO 1500V

tors are filled (NOT just impregnated) with Sprague 500°F. flash protection oil that has the added advantage of retaining its dielectric efficiency at low temperatures. The PC Capacitors find a wide field of usefulness in such applications as public address systems, medium-voltage transmitters, television and high-gain amplifiers. THEY ARE RATED CONSERVATIVELY and labelled according to industry standards. Ample safety factor is assured. Units include spade washer and insulating lug to insulate the round metal can containers from the chassis. Ring clamp is available for upright mounting. (See page P-62.)

*Trademark applied for.

| Catalog No. | Mfd. | Voltage DC working | Dimensions D | L | List Price |
|-------------|------|--------------------|--------------|-------|------------|
| PC-26 | 2.0 | 600 | 1 1/2 | 2 7/8 | \$4.15 |
| PC-36 | 3.0 | 600 | 1 1/2 | 3 1/2 | 4.95 |
| PC-46 | 4.0 | 600 | 1 1/2 | 4 1/2 | 5.70 |
| PC-11 | 1.0 | 1000 | 1 1/2 | 2 7/8 | 3.80 |
| PC-21 | 2.0 | 1000 | 1 1/2 | 4 1/2 | 4.95 |
| PC-515 | 0.5 | 1500 | 1 1/2 | 2 3/8 | 4.55 |
| PC-115 | 1.0 | 1500 | 1 1/2 | 3 7/8 | 4.95 |

SPRAGUE CAPACITORS

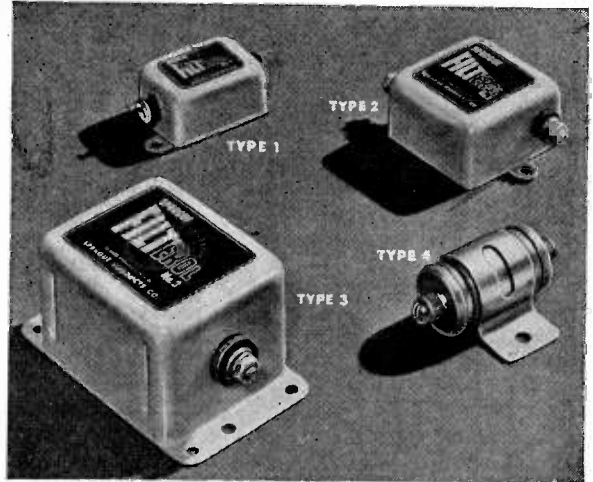


INTERFERENCE FILTERS

Sprague FILTEROL Radio Interference Filters are a direct outgrowth of highly successful Sprague wartime engineering research, and offer for civilian use a war-tested, practical filter that suppresses man-made radio noises and television "scrambles" on practically any application. They are small, completely self-contained, and easily installed. Applicable to any electrical device within their current and voltage ratings, they provide maximum noise suppression on radio broadcast bands. A study of the Attenuation Curve (available on request) illustrating typical FILTEROL noise suppression performance will show that this surpasses anything normally available in the past.

SPRAGUE FILTEROL TYPES 1, 2 and 3 are designed for connection in series with power supply lines to interference-producing devices. Their basic circuit is a special three-terminal network of which the can is one terminal. The filter selected should have a rating higher than the continuous running current of the device. A single FILTEROL connected in one side of the line is usually sufficient. However, in severe interference cases a FILTEROL in each power line may be necessary. For three-or-four wire systems, a FILTEROL in each wire is necessary.

FILTEROL TYPE 4 is a new, exclusive Sprague invention incorporating a Sprague *HYPASS capacitor and provides exceptionally high attenuation at frequencies above 5MC. It is effective up to 150 MC or more. Intended for all small devices with continuous current ratings up to 20 amperes. Applied by mounting directly on the frame of the device to be filtered, and connecting the power supply line in series through the filter. In severe cases, a FILTEROL may be necessary in each line wire.



IF-11—A DUAL HIGH-CAPACITY FILTER with completely enclosed safety construction. Designed for motors over 1 horsepower and up to 220 volts AC or DC. Also used on high-current arcing or sparking devices.

IF-S1—SINGLE 2-LEAD FILTER SECTION with can completely insulated. For use across make-and-break contacts.

IF-37—8-SECTION DELTA-CONNECTED FILTER. Only one IF-37 required for each fluorescent lamp fixture.

Also effective on make-and-break governor-type motors.

*Trademark Reg. U.S. Pat. Off.

†Trademark applied for.

SPRAGUE IF TYPES

IF-15—A TRIPLE-SECTION FILTER for all small motor-operated devices. Especially designed to prevent accidental shocks from discharge of filter capacitors.

IF-21—COMPACT DUAL METAL-ENCASED TUBULAR FILTER for use across brushes of fractional horsepower motors with can grounded to motor frame. Also across line terminals of motors.

RATINGS

SPRAGUE FILTEROL TYPES

| FILTEROL TYPE | AMP. | VOLTS | LIST PRICE |
|---------------|---------|---------------|------------|
| FILTEROL 1 | 1 AMP. | 115V AC or DC | \$4.75 |
| FILTEROL 2 | 10 AMP. | 115V AC or DC | 9.75 |
| FILTEROL 3 | 35 AMP. | 115V AC or DC | 12.50 |
| FILTEROL 4 | 20 AMP. | 220V AC or DC | 2.75 |

SPRAGUE IF TYPES

| IF TYPE | VOLTS | LIST PRICE |
|---------|---------------|------------|
| IF-15 | 220V AC or DC | \$1.90 |
| IF-11 | 220V AC or DC | 4.40 |
| IF-21 | 220V AC or DC | 1.55 |
| IF-S1 | 220V AC or DC | 1.15 |
| IF-37 | 220V AC or DC | 1.50 |

SPRAGUE MICA CAPACITORS

Twice Tested for R-F Characteristics

Sprague Mica Capacitors provide maximum quality for R-F applications where exacting requirements involving low-power factor and high-insulation resistance at high frequencies must be met. The line includes types for every requirement ranging from the tiny "tooth-pick" 1FM types to the giant ceramic-jacketed types 4CC. Each type incorporates outstanding developments based on far-reaching Sprague wartime engineering.

Mica units are perhaps the most critical of all capacitor types to produce properly—and it is in the handling of these essential details that Sprague engineering and production excels. Beginning with selection and handling of the mica itself, extreme care is taken in every operation to assure completed units which, although they look like conventional units on the surface, will far surpass ordinary mica capacitors in actual service.

Stocks of raw mica are carefully selected. So critical are Sprague requirements that far more mica is rejected than is actually selected for use. The selected mica is then hand split and each piece electrically graded by exclusive Sprague methods.

Particular care is exercised in the interleaving of section foils and in connecting them to terminals through specially designed low-resistance R-F bonds. Perhaps most important of all is the fact that each and every Sprague Mica Capacitor section receives a painstaking radio frequency test before being encased in its mold. After this test, each section is carefully impregnated and moisture-proofed prior to the molding operation.

Upon completion, all Sprague Mica Capacitors required to carry large R-F currents are actually R-F current tested for their peak ratings. This test combined with thorough testing before molding assures the serviceman, amateur, experimenter or industrial user of units of utmost dependability for any application or any condition of use.

SPRAGUE MS

SILVER MICA CAPACITORS

| Catalog Nos. | Dimensions | | |
|---------------------|------------|------|-----|
| | L | W | T |
| MS-55 through MS-35 | 4.38 | 2.38 | .75 |
| MS-36 through MS-23 | 3.38 | 2.38 | .65 |
| MS-24 through MS-28 | 2.38 | 2.38 | .11 |
| MS-29 through MS-11 | 1 | .65 | .18 |

Standard Capacity Tolerance $\pm 5\%$

| Catalog No. | Mfd. | —DC Voltage— | | List Price |
|-------------|---------|--------------|------|------------|
| | | Working | Test | |
| MS-55 | .000005 | 500 | 1000 | \$0.45 |
| MS-41 | .00001 | 500 | 1000 | .40 |
| MS-415 | .000015 | 500 | 1000 | .40 |
| MS-42 | .00002 | 500 | 1000 | .40 |
| MS-425 | .000025 | 500 | 1000 | .40 |
| MS-43 | .00003 | 500 | 1000 | .40 |
| MS-44 | .00004 | 500 | 1000 | .40 |
| MS-45 | .00005 | 500 | 1000 | .40 |
| MS-46 | .00006 | 500 | 1000 | .40 |
| MS-47 | .00007 | 500 | 1000 | .40 |
| MS-31 | .0001 | 500 | 1000 | .40 |
| MS-32 | .0002 | 500 | 1000 | .45 |
| MS-33 | .0003 | 500 | 1000 | .55 |
| MS-34 | .0004 | 500 | 1000 | .65 |
| MS-35 | .0005 | 500 | 1000 | .70 |
| MS-36 | .0006 | 500 | 1000 | .80 |
| MS-37 | .0007 | 500 | 1000 | .85 |
| MS-38 | .0008 | 500 | 1000 | .95 |
| MS-39 | .0009 | 500 | 1000 | 1.00 |
| MS-21 | .001 | 500 | 1000 | 1.10 |
| MS-22 | .002 | 500 | 1000 | 1.35 |
| MS-23 | .003 | 500 | 1000 | 2.05 |
| MS-24 | .004 | 500 | 1000 | 2.15 |
| MS-25 | .005 | 500 | 1000 | 2.25 |
| MS-26 | .006 | 500 | 1000 | 2.40 |
| MS-27 | .007 | 300 | 600 | 2.60 |
| MS-28 | .008 | 300 | 600 | 2.80 |
| MS-29 | .009 | 300 | 600 | 3.10 |
| MS-11 | .01 | 300 | 600 | 3.40 |

SPRAGUE CAPACITORS



MICA TYPES

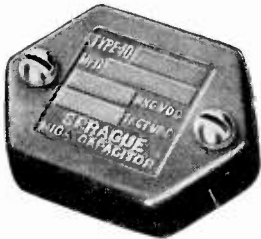
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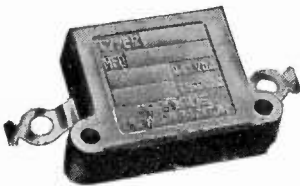
TYPES MS
and 1FM



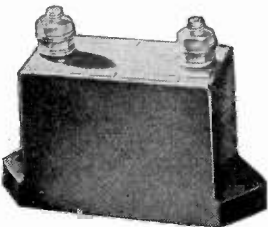
TYPES 3AFM
3BFM and 3CFM



TYPES 7FM
8FM and 9FM



TYPES XFM
YFM and ZFM



TYPES 1MC
and 2MC

SPRAGUE 1FM

STANDARD CAPACITY TOLERANCE $\pm 20\%$

| Catalog No. | Mfd. | —DC Voltage— | | List Price |
|-------------|---------|--------------|------|------------|
| | | Working | Test | |
| 1FM-44 | .00004 | 500 | 1000 | \$0.20 |
| 1FM-45 | .00005 | 500 | 1000 | .20 |
| 1FM-475 | .000075 | 500 | 1000 | .20 |
| 1FM-31 | .0001 | 500 | 1000 | .20 |
| 1FM-315 | .00015 | 500 | 1000 | .20 |
| 1FM-32 | .0002 | 500 | 1000 | .20 |
| 1FM-325 | .00025 | 500 | 1000 | .25 |
| 1FM-335 | .00035 | 500 | 1000 | .25 |
| 1FM-34 | .0004 | 500 | 1000 | .25 |
| 1FM-35 | .0005 | 500 | 1000 | .25 |
| 1FM-37 | .0007 | 500 | 1000 | .25 |
| 1FM-21 | .001 | 500 | 1000 | .30 |
| 1FM-215 | .0015 | 500 | 1000 | .30 |
| 1FM-22 | .002 | 500 | 1000 | .40 |
| 1FM-23 | .003 | 500 | 1000 | .50 |
| 1FM-24 | .004 | 500 | 1000 | .55 |
| 1FM-25 | .005 | 500 | 1000 | .60 |
| 1FM-26 | .006 | 500 | 1000 | .75 |
| 1FM-27 | .007 | 300 | 600 | .90 |
| 1FM-28 | .008 | 300 | 600 | 1.00 |
| 1FM-29 | .009 | 300 | 600 | 1.00 |
| 1FM-11 | .01 | 300 | 600 | 1.20 |

| Catalog Nos. | Dimensions | | |
|-----------------------|-----------------|-----------------|----------------|
| | L | W | T |
| 1FM-44 through 1FM-35 | $\frac{31}{64}$ | $\frac{13}{64}$ | $\frac{3}{32}$ |
| 1FM-37 through 1FM-23 | $\frac{31}{64}$ | $\frac{13}{64}$ | $\frac{3}{32}$ |
| 1FM-24 through 1FM-28 | $\frac{31}{64}$ | $\frac{13}{64}$ | $\frac{3}{32}$ |
| 1FM-29 through 1FM-11 | 1 | $\frac{5}{8}$ | $\frac{1}{8}$ |

SPRAGUE 3AFM 3BFM & 3CFM

STANDARD CAPACITY TOLERANCE $\pm 10\%$

3AFM

| Catalog No. | Mfd. | —DC Voltage— | | List Price |
|-------------|------|--------------|------|------------|
| | | Working | Test | |
| 3AFM-25 | .005 | 300 | 600 | \$0.60 |
| 3AFM-26 | .006 | 300 | 600 | .75 |
| 3AFM-27 | .007 | 300 | 600 | .90 |
| 3AFM-28 | .008 | 300 | 600 | 1.00 |
| 3AFM-11 | .01 | 300 | 600 | 1.20 |
| 3AFM-115 | .015 | 300 | 600 | 1.00 |

3BFM

| | | | | |
|----------|--------|-----|------|------|
| 3BFM-31 | .0001 | 500 | 1000 | .20 |
| 3BFM-32 | .0002 | 500 | 1000 | .20 |
| 3BFM-325 | .00025 | 500 | 1000 | .25 |
| 3BFM-33 | .0003 | 500 | 1000 | .25 |
| 3BFM-34 | .0004 | 500 | 1000 | .25 |
| 3BFM-35 | .0005 | 500 | 1000 | .25 |
| 3BFM-21 | .001 | 500 | 1000 | .30 |
| 3BFM-215 | .0015 | 500 | 1000 | .30 |
| 3BFM-22 | .002 | 500 | 1000 | .40 |
| 3BFM-225 | .0025 | 500 | 1000 | .45 |
| 3BFM-23 | .003 | 500 | 1000 | .50 |
| 3BFM-24 | .004 | 500 | 1000 | .55 |
| 3BFM-25 | .005 | 500 | 1000 | .60 |
| 3BFM-26 | .006 | 500 | 1000 | .75 |
| 3BFM-27 | .007 | 500 | 1000 | .90 |
| 3BFM-28 | .008 | 500 | 1000 | 1.00 |

3CFM

| | | | | |
|----------|--------|------|------|-----|
| 3CFM-45 | .00005 | 1000 | 2000 | .60 |
| 3CFM-31 | .0001 | 1000 | 2000 | .60 |
| 3CFM-32 | .0002 | 1000 | 2000 | .60 |
| 3CFM-325 | .00025 | 1000 | 2000 | .60 |
| 3CFM-33 | .0003 | 1000 | 2000 | .70 |
| 3CFM-34 | .0004 | 1000 | 2000 | .70 |
| 3CFM-35 | .0005 | 1000 | 2000 | .70 |
| 3CFM-21 | .001 | 1000 | 2000 | .75 |
| 3CFM-215 | .0015 | 1000 | 2000 | .80 |
| 3CFM-22 | .002 | 1000 | 2000 | .80 |
| 3CFM-225 | .0025 | 1000 | 2000 | .80 |

| Catalog Nos. | Dimensions | | |
|--------------|------------|---------------|---------------|
| | L | W | T |
| 3AFM Types | 1 | $\frac{5}{8}$ | $\frac{1}{8}$ |
| 3BFM Types | 1 | $\frac{5}{8}$ | $\frac{1}{8}$ |
| 3CFM Types | 1 | $\frac{5}{8}$ | $\frac{1}{8}$ |

SPRAGUE 7FM 8FM & 9FM

STANDARD CAPACITY TOLERANCE $\pm 10\%$

7FM

| Catalog No. | Mfd. | —DC Voltage— | | List Price |
|-------------|--------|--------------|------|------------|
| | | Working | Test | |
| 7FM-45 | .00005 | 600 | 1200 | \$0.85 |
| 7FM-31 | .0001 | 600 | 1200 | .85 |
| 7FM-315 | .00015 | 600 | 1200 | .85 |
| 7FM-32 | .0002 | 600 | 1200 | .85 |
| 7FM-325 | .00025 | 600 | 1200 | .85 |
| 7FM-35 | .0005 | 600 | 1200 | .85 |
| 7FM-21 | .001 | 600 | 1200 | .85 |
| 7FM-22 | .002 | 600 | 1200 | .90 |
| 7FM-225 | .0025 | 600 | 1200 | 1.00 |
| 7FM-23 | .003 | 600 | 1200 | 1.20 |
| 7FM-24 | .004 | 600 | 1200 | 1.20 |
| 7FM-25 | .005 | 600 | 1200 | 1.20 |
| 7FM-26 | .006 | 600 | 1200 | 1.40 |
| 7FM-28 | .008 | 600 | 1200 | 1.65 |
| 7FM-11 | .01 | 600 | 1200 | 1.95 |
| 7FM-115 | .015 | 600 | 1200 | 2.25 |
| 7FM-12 | .02 | 600 | 1200 | 2.60 |
| 7FM-13 | .03 | 600 | 1200 | 3.45 |
| 7FM-14 | .04 | 600 | 1200 | 4.50 |
| 7FM-15 | .05 | 600 | 1200 | 5.35 |
| 7FM-16 | .06 | 600 | 1200 | 6.20 |

| Catalog Nos. | Dimensions | | |
|-----------------------|----------------|----------------|---------------|
| | L | W | T |
| 7FM-45 through 7FM-13 | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $\frac{1}{8}$ |
| 7FM-14 through 7FM-16 | $1\frac{1}{8}$ | $1\frac{1}{8}$ | $\frac{3}{4}$ |

8FM

| Catalog No. | Mfd. | —DC Voltage— | | List Price |
|-------------|--------|--------------|------|------------|
| | | Working | Test | |
| 8FM-45 | .00005 | 1200 | 2500 | \$1.00 |
| 8FM-31 | .0001 | 1200 | 2500 | 1.00 |
| 8FM-315 | .00015 | 1200 | 2500 | 1.00 |
| 8FM-32 | .0002 | 1200 | 2500 | 1.00 |
| 8FM-325 | .00025 | 1200 | 2500 | 1.00 |
| 8FM-35 | .0005 | 1200 | 2500 | 1.00 |
| 8FM-21 | .001 | 1200 | 2500 | 1.25 |
| 8FM-22 | .002 | 1200 | 2500 | 1.90 |
| 8FM-225 | .0025 | 1200 | 2500 | 2.00 |
| 8FM-23 | .003 | 1200 | 2500 | 2.20 |
| 8FM-24 | .004 | 1200 | 2500 | 2.20 |
| 8FM-25 | .005 | 1200 | 2500 | 2.40 |
| 8FM-26 | .006 | 1200 | 2500 | 2.40 |
| 8FM-28 | .008 | 1200 | 2500 | 3.10 |
| 8FM-11 | .01 | 1200 | 2500 | 3.90 |
| 8FM-115 | .015 | 1200 | 2500 | 4.65 |
| 8FM-12 | .02 | 1200 | 2500 | 5.45 |
| 8FM-125 | .025 | 1200 | 2500 | 6.10 |
| 8FM-13 | .03 | 1200 | 2500 | 6.40 |

| Catalog Nos. | Dimensions | | |
|------------------------|----------------|----------------|---------------|
| | L | W | T |
| 8FM-45 through 8FM-115 | $1\frac{3}{4}$ | $1\frac{5}{8}$ | $\frac{1}{8}$ |
| 8FM-12 through 8FM-13 | $1\frac{3}{4}$ | $1\frac{5}{8}$ | $\frac{3}{4}$ |

9FM

| Catalog No. | Mfd. | —DC Voltage— | | List Price |
|-------------|--------|--------------|------|------------|
| | | Working | Test | |
| 9FM-45 | .00005 | 2500 | 5000 | \$1.25 |
| 9FM-31 | .0001 | 2500 | 5000 | 1.25 |
| 9FM-325 | .00025 | 2500 | 5000 | 1.50 |
| 9FM-35 | .0005 | 2500 | 5000 | 1.70 |
| 9FM-21 | .001 | 2500 | 5000 | 2.05 |
| 9FM-22 | .002 | 2500 | 5000 | 3.10 |
| 9FM-225 | .0025 | 2500 | 5000 | 3.45 |
| 9FM-23 | .003 | 2500 | 5000 | 3.80 |
| 9FM-24 | .004 | 2500 | 5000 | 4.35 |
| 9FM-25 | .005 | 2500 | 5000 | 4.70 |
| 9FM-26 | .006 | 2500 | 5000 | 4.85 |
| 9FM-28 | .008 | 2500 | 5000 | 5.30 |
| 9FM-11 | .01 | 2500 | 5000 | 5.70 |
| 9FM-115 | .015 | 2500 | 5000 | 6.20 |

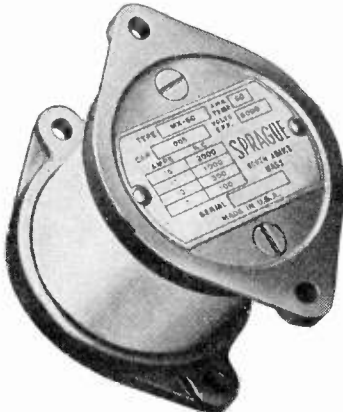
| Catalog Nos. | Dimensions | | |
|------------------------|----------------|----------------|---------------|
| | L | W | T |
| 9FM-45 through 9FM-26 | $1\frac{3}{4}$ | $1\frac{5}{8}$ | $\frac{1}{8}$ |
| 9FM-28 through 9FM-115 | $1\frac{3}{4}$ | $1\frac{5}{8}$ | $\frac{3}{4}$ |

SPRAGUE CAPACITORS



MICA TYPES (continued)

SPRAGUE 3CC-4CC



TYPES 1CC, 2CC,
3CC and 4CC

STANDARD CAPACITY TOLERANCE OF
TYPES 3CC AND 4CC IS $\pm 5\%$.

| 3CC | | | | 4CC | | | |
|-------------|---------|-----------------|------------|-------------|--------|-----------------|------------|
| Catalog No. | Mfd. | Voltage AC Peak | List Price | Catalog No. | Mfd. | Voltage AC Peak | List Price |
| 3CC-45 | .00005 | 20000 | \$72.00 | 4CC-31 | .0001 | 30000 | \$114.00 |
| 3CC-475 | .000075 | 20000 | 78.00 | 4CC-315 | .00015 | 30000 | 123.00 |
| 3CC-31 | .0001 | 20000 | 80.40 | 4CC-32 | .0002 | 30000 | 132.00 |
| 3CC-315 | .00015 | 20000 | 80.40 | 4CC-33 | .0003 | 30000 | 132.00 |
| 3CC-32 | .0002 | 20000 | 80.40 | 4CC-34 | .0004 | 30000 | 132.00 |
| 3CC-33 | .0003 | 20000 | 80.40 | 4CC-35 | .0005 | 30000 | 132.00 |
| 3CC-34 | .0004 | 20000 | 80.40 | 4CC-36 | .0006 | 30000 | 132.00 |
| 3CC-35 | .0005 | 20000 | 80.40 | 4CC-37 | .0007 | 30000 | 126.00 |
| 3CC-36 | .0006 | 20000 | 80.40 | 4CC-38 | .0008 | 30000 | 126.00 |
| 3CC-37 | .0007 | 20000 | 80.40 | 4CC-21 | .001 | 30000 | 126.00 |
| 3CC-38 | .0008 | 20000 | 78.00 | 4CC-215 | .0015 | 25000 | 114.00 |
| 3CC-21 | .001 | 20000 | 78.00 | 4CC-22 | .002 | 20000 | 114.00 |
| 3CC-215 | .0015 | 15000 | 78.00 | 4CC-23 | .003 | 20000 | 120.00 |
| 3CC-22 | .002 | 15000 | 78.00 | 4CC-24 | .004 | 15000 | 120.00 |
| 3CC-23 | .003 | 12000 | 78.00 | 4CC-25 | .005 | 15000 | 138.00 |
| 3CC-24 | .004 | 12000 | 78.00 | 4CC-26 | .006 | 15000 | 138.00 |
| 3CC-25 | .005 | 10000 | 79.20 | 4CC-27 | .007 | 15000 | 144.00 |
| 3CC-26 | .006 | 10000 | 82.00 | 4CC-28 | .008 | 12000 | 144.00 |
| 3CC-27 | .007 | 10000 | 84.00 | 4CC-29 | .009 | 12000 | 144.00 |
| 3CC-28 | .008 | 10000 | 86.00 | 4CC-11 | .01 | 10000 | 150.00 |
| 3CC-11 | .01 | 8000 | 90.00 | 4CC-115 | .015 | 8000 | 144.00 |
| 3CC-115 | .015 | 5000 | 86.00 | 4CC-12 | .02 | 6000 | 138.00 |
| 3CC-12 | .02 | 5000 | 86.00 | 4CC-13 | .03 | 6000 | 138.00 |
| 3CC-125 | .025 | 3000 | 79.20 | 4CC-14 | .04 | 5000 | 144.00 |
| 3CC-13 | .03 | 3000 | 79.20 | 4CC-15 | .05 | 5000 | 150.00 |
| 3CC-14 | .04 | 3000 | 79.20 | 4CC-16 | .06 | 5000 | 160.00 |
| 3CC-15 | .05 | 3000 | 79.20 | 4CC-17 | .07 | 4000 | 165.00 |
| 3CC-16 | .06 | 3000 | 83.00 | 4CC-18 | .08 | 3000 | 170.00 |
| 3CC-17 | .07 | 2000 | 86.00 | 4CC-1 | .1 | 3000 | 180.00 |
| 3CC-18 | .08 | 2000 | 90.00 | | | | |
| 3CC-1 | .1 | 2000 | 95.00 | | | | |

| Catalog No. | Dimensions | |
|-------------|------------|---|
| | D | H |
| 3CC | 5 | 4 |

| Catalog No. | Dimensions | |
|-------------|------------|-------|
| | D | H |
| 4CC | 6 | 6 3/4 |

SPRAGUE HARDWARE

Sprague Mounting Clamps and Straps provide quick, dependable means for securing a wide variety of capacitors and resistors to a mounting surface. All clamps and straps are made from plated steel.

CMC Vertical Mounting Clamps for Cylindrical Capacitors (Figs. 1 and 2) are ideally suited for vertical or "above chassis" mounting of Sprague Capacitor Types AP, CL, DR, EL, HLV, LM, LS, OT, PC, PLS, RW, SC or other round can units.

The RMC Wrap Around Clamps for Rectangular Capacitors (Fig. 3) are designed for mounting Type CR Capacitors or other rectangular units.

Type TMS Mounting Straps for Tubular Capacitors (Fig. 4) fit any tubular capacitor or resistor having a diameter of between 1/4" and 1 3/8", inclusive. They may be used with Sprague Types AT, PX, SW, TA, TC, TR, TU, UHC, UT or other tubular units and with Sprague "Koolohm Resistor Types 5KT/5NT, 10KT/10NT, 25KT/25NT, 50KT/50NT and 120KT/120NT.

VERTICAL MOUNTING CLAMPS FOR CYLINDRICAL CAPACITORS

| Catalog No. | A Diameter | B Mounting Radius | Figure No. | List Price |
|-------------|------------|-------------------|------------|------------|
| CMC-12 | 3/4 | 2 1/2 | 1 | \$0.08 |
| CMC-16 | 1 | 3 1/2 | 1 | .08 |
| CMC-20 | 1 1/4 | 4 1/2 | 1 | .08 |
| CMC-22 | 1 3/8 | 4 1/2 | 1 | .08 |
| CMC-24 | 1 1/2 | 5 1/2 | 1 | .12 |
| CMC-28 | 1 3/4 | 1 3/2 | 1 | .14 |
| CMC-32 | 2 | 1 3/4 | 2 | .18 |
| CMC-40 | 2 1/2 | 1 1/2 | 2 | .18 |

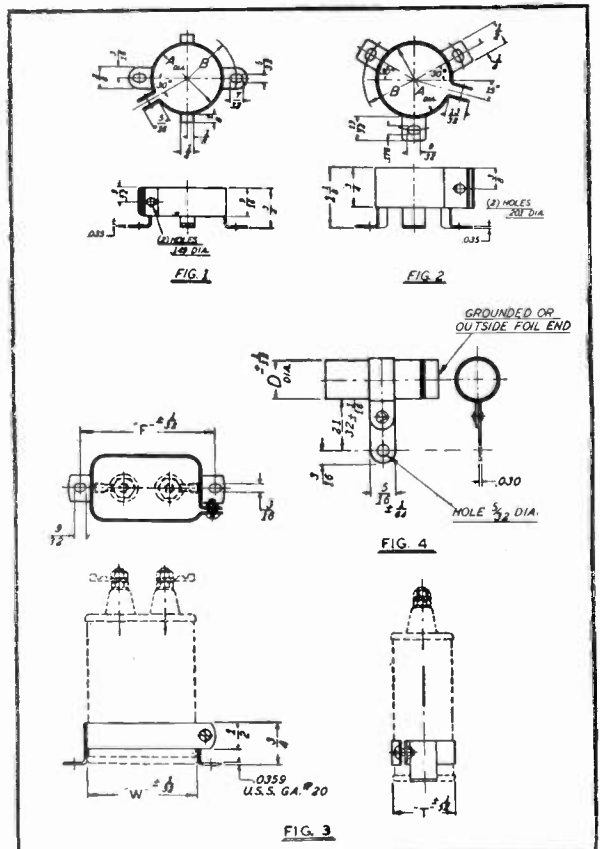
WRAP AROUND CLAMPS FOR RECTANGULAR CAPACITORS

| Catalog No. | Dimensions | | Figure No. | List Price |
|-------------|------------|-------|------------|------------|
| | T | W | | |
| RMC-17 | 1 1/2 | 1 1/2 | 2 1/4 | \$0.20 |
| RMC-19 | 1 3/8 | 2 1/2 | 3 | .20 |
| RMC-20 | 1 1/4 | 3 3/4 | 4 3/8 | .20 |
| RMC-28 | 1 3/4 | 3 3/4 | 4 3/8 | .20 |
| RMC-36 | 2 1/4 | 3 3/4 | 4 3/8 | .25 |
| RMC-40 | 2 1/2 | 3 3/4 | 4 3/8 | .25 |
| RMC-51 | 3 3/8 | 3 3/4 | 4 3/8 | .30 |
| RMC-73 | 4 3/8 | 3 3/4 | 4 3/8 | .40 |
| RMC-128 | 8 | 4 | 4 3/8 | .50 |

MOUNTING STRAPS FOR TUBULAR CAPACITORS

| Catalog No. | Tube Diameter | Figure No. | List Price | Catalog No. | Tube Diameter | Figure No. | List Price |
|-------------|---------------|------------|------------|-------------|---------------|------------|------------|
| | | | | | | | |
| TMS-5 | 5/16 | 4 | .06 | TMS-15 | 1 1/8 | 4 | .06 |
| TMS-6 | 3/8 | 4 | .06 | TMS-16 | 1 1/4 | 4 | .10 |
| TMS-7 | 7/8 | 4 | .06 | TMS-17 | 1 1/2 | 4 | .10 |
| TMS-8 | 1 1/2 | 4 | .06 | TMS-18 | 1 3/4 | 4 | .10 |
| TMS-9 | 3/4 | 4 | .06 | TMS-19 | 1 7/8 | 4 | .10 |
| TMS-10 | 5/8 | 4 | .06 | TMS-20 | 1 3/4 | 4 | .15 |
| TMS-11 | 1 1/8 | 4 | .06 | TMS-21 | 1 7/8 | 4 | .15 |
| TMS-12 | 3/4 | 4 | .06 | TMS-22 | 1 3/8 | 4 | .15 |
| TMS-13 | 1 1/8 | 4 | .06 | | | | |

*Trademark Reg. U. S. Pat. Off.



SPRAGUE KOOLOHMS



THE RESISTORS WITH THE CERAMIC-COATED WIRE INSULATION

Sprague Koolohm Wire-Wound Resistors are wound with wire that is insulated before it is wound with a flexible, ceramic coating that is impervious to heat as high as 1000° C. In addition, each resistor is doubly protected by a glazed ceramic coating and new type of end seals which guard it effectively against any moisture or other climatic conditions. Ordinary resistors may be designed to provide some degree of "tropicalized" protection at extra cost. STANDARD Koolohms give FULL protection at regular prices!

No Other Resistors Have These Features

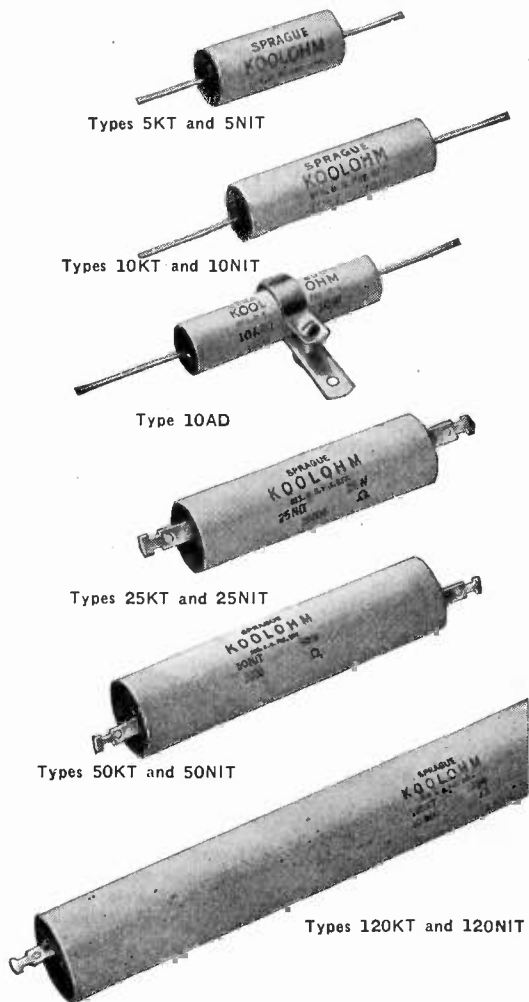
Because of the complete protection afforded by both their wire insulation and outer ceramic shells, Koolohms may be mounted anywhere, even flat against a chassis or against grounded parts. They can safely be used at full wattage ratings, even on the high-resistance values because of the excellent insulation at high temperatures. No danger of shorts

or current leakage! Thanks to their ceramic wire insulation, Koolohms can be wound in layers. This means higher ratings in much smaller physical sizes. Even more important, larger, sturdier wire sizes can be used. Actually, the wire sizes in Koolohm Resistors average 2¼ times greater in cross-sectional area than those in ordinary resistors of the same size!

High Insulation Resistance

Also standard Koolohms have the high insulation resistance to ground required for television and other high-voltage uses—10,000 volts from the surface of their sturdy ceramic jackets to their resistance elements!

The following listings include only the Sprague Koolohm Wire-Wound Resistor types commonly supplied for radio repair service and amateur radio applications. Various other types are also regularly produced in large quantities and to the most exacting standard or special applications. All have been thoroughly proved and tested for the most exacting military, naval and aircraft applications.



Types 5KT and 5NIT

Types 10KT and 10NIT

Type 10AD

Types 25KT and 25NIT

Types 50KT and 50NIT

Types 120KT and 120NIT

STANDARD RESISTANCE TOLERANCE ±5%

5 Watts

1 1/2" x 1 1/2" Diameter
CATALOG TYPES 5KT
and 5NIT (Non-Inductive)

| List Price 5NIT (Non-Induc.) | Resistance Ohms | Maximum Current M.A. | Maximum Volts | List Price Type 5KT |
|------------------------------|-----------------|----------------------|---------------|---------------------|
| \$0.78 | 5 | 1000 | 5.00 | \$0.52 |
| .78 | 10 | 707 | 7.07 | .52 |
| .78 | 15 | 587 | 8.67 | .52 |
| .78 | 20 | 500 | 10 | .52 |
| .78 | 25 | 446 | 11 | .52 |
| .78 | 30 | 406 | 12 | .52 |
| .78 | 40 | 354 | 14 | .52 |
| .78 | 50 | 316 | 15 | .52 |
| .78 | 75 | 258 | 19 | .52 |
| .78 | 100 | 224 | 22 | .52 |
| .78 | 150 | 183 | 27 | .52 |
| .78 | 200 | 158 | 31 | .52 |
| .78 | 250 | 141 | 35 | .52 |
| .78 | 300 | 129 | 38 | .52 |
| .78 | 400 | 112 | 44 | .52 |
| .78 | 500 | 100 | 50 | .52 |
| .78 | 600 | 91 | 54 | .52 |
| .78 | 700 | 81 | 59 | .52 |
| .78 | 800 | 79 | 63 | .52 |
| .78 | 900 | 74 | 67 | .52 |
| .78 | 1000 | 70 | 70 | .52 |
| .91 | 1250 | 63 | 79 | .52 |
| .91 | 1500 | 57 | 86 | .52 |
| .91 | 1750 | 53 | 93 | .52 |
| .91 | 2000 | 50 | 100 | .52 |
| .98 | 2500 | 44 | 112 | .52 |
| .98 | 3000 | 40 | 123 | .52 |
| .98 | 4000 | 35 | 141 | .52 |
| 1.04 | 5000 | 31 | 178 | .52 |
| . | 6000 | 28 | 173 | .54 |
| . | 7000 | 26 | 187 | .54 |
| . | 7500 | 25 | 194 | .54 |
| . | 8000 | 25 | 200 | .54 |
| . | 9000 | 23 | 212 | .54 |
| . | 10000 | 22 | 224 | .54 |
| . | 12500 | 20 | 250 | .60 |
| . | 14000 | 18 | 265 | .60 |
| . | 15000 | 18 | 274 | .60 |
| . | 20000 | 15 | 333 | .66 |
| . | 25000 | 14 | 354 | .84 |
| . | 30000 | 13 | 387 | .90 |
| . | 40000 | 11 | 447 | 1.02 |

10 Watts

1 1/2" x 1 1/2" Diameter
CATALOG TYPES 10KT
and 10NIT (Non-Inductive)

| List Price 10NIT (Non-Induc.) | Resistance Ohms | Maximum Current M.A. | Maximum Volts | List Price Type 10KT |
|-------------------------------|-----------------|----------------------|---------------|----------------------|
| \$0.78 | 5 | 1414 | 7.07 | \$0.59 |
| .78 | 10 | 1000 | 10 | .59 |
| .78 | 15 | 830 | 12.3 | .59 |
| .78 | 20 | 707 | 14.1 | .59 |
| .78 | 25 | 630 | 15.8 | .59 |
| .78 | 30 | 575 | 17.4 | .59 |
| .78 | 40 | 500 | 20 | .59 |
| .78 | 50 | 447 | 22.4 | .59 |
| .78 | 75 | 365 | 27.1 | .59 |
| .78 | 100 | 316 | 31.6 | .59 |
| .78 | 150 | 259 | 38.7 | .59 |
| .78 | 200 | 223 | 44.6 | .59 |
| .78 | 250 | 200 | 50 | .59 |
| .78 | 300 | 182 | 54.7 | .59 |
| .78 | 400 | 158 | 63.3 | .59 |
| .78 | 500 | 141 | 70.7 | .59 |
| .78 | 600 | 129 | 77.6 | .59 |
| .78 | 700 | 119 | 84 | .59 |
| .78 | 750 | 115 | 86.9 | .59 |
| .78 | 800 | 112 | 89.5 | .59 |
| .78 | 900 | 105 | 95 | .59 |
| .78 | 1000 | 100 | 100 | .59 |
| .91 | 1250 | 89 | 112 | .59 |
| .91 | 1500 | 81 | 123 | .59 |
| .91 | 1750 | 75 | 133 | .59 |
| .91 | 2000 | 70 | 143 | .59 |
| .98 | 2500 | 63 | 158 | .59 |
| .98 | 3000 | 57 | 174 | .59 |
| .98 | 4000 | 50 | 200 | .58 |
| 1.04 | 5000 | 44 | 227 | .59 |
| 1.04 | 6000 | 41 | 245 | .59 |
| 1.17 | 7500 | 36 | 275 | .59 |
| 1.17 | 8000 | 35 | 283 | .59 |
| 1.17 | 9000 | 33 | 300 | .59 |
| 1.50 | 10000 | 32 | 316 | .59 |
| . | 12000 | 29 | 346 | .65 |
| . | 14000 | 26 | 384 | .65 |
| . | 15000 | 25 | 400 | .65 |
| . | 17500 | 24 | 419 | .72 |
| . | 20000 | 21 | 473 | .72 |
| . | 25000 | 20 | 500 | .74 |
| . | 30000 | 18 | 555 | .80 |
| . | 40000 | 16 | 632 | .88 |
| . | 50000 | 14 | 700 | .90 |
| . | 60000 | 13 | 780 | .90 |
| . | 70000 | 12 | 810 | .88 |

* Type KT only.

SPRAGUE KOOLOHMS



| 10 Watts Adjustable† | | | | 25 Watts | | | | 50 Watts | | | | 120 Watts | | | | | | |
|--|---------------------------------|-----------------------|---------------|---|-------------------------|---------------------------------|-----------------------|---|--|-------------------------|---------------------------------|---|-------------------------------|---|-------------------------|---------------------------------|-----------------------|--------------------------------|
| 1 3/8" x 1 1/8" Diameter CATALOG TYPE No. 10-AD | | | | 2 7/8" x 3/4" Diameter CATALOG TYPES 25KT and 25NIT (Non-Inductive) | | | | 4" x 7/8" Diameter CATALOG TYPES 50KT and 50NIT (Non-Inductive) | | | | 8 1/8" x 1 1/8" Diameter CATALOG TYPES 120KT & 120NIT (Non-Inductive) | | | | | | |
| Resistance Ohms | Maxi- mum Current M.A. | Maxi- mum Volts | List Price | List Price 25NIT (Non- Induc.) | Resist- ance Ohms | Maxi- mum Current M.A. | Maxi- mum Volts | List Price Type 25KT | List Price 50NIT (Non- Induc.) | Resist- ance Ohms | Maxi- mum Current M.A. | Maxi- mum Volts | List Price Type 50KT | List Price 120NIT (Non- Induc.) | Resist- ance Ohms | Maxi- mum Current M.A. | Maxi- mum Volts | List Price Type 120KT |
| 10 | 1000 | 10 | \$0.98 | \$1.98 | 5 | 2.23 | 11 | \$1.08 | \$2.82 | 5 | 3.16 | 15 | 1.56 | \$6.60 | 5 | 4.9 | 24.5 | \$4.00 |
| 25 | 630 | 15.8 | .98 | 1.98 | 10 | 1.58 | 15 | 1.08 | 2.82 | 10 | 2.23 | 22 | 1.56 | 6.60 | 10 | 3.46 | 34.6 | 4.60 |
| 50 | 447 | 22.4 | .98 | 1.98 | 25 | 1.0 | 25 | 1.08 | 2.82 | 25 | 1.41 | 35 | 1.56 | 6.60 | 25 | 2.18 | 54.6 | 4.60 |
| 100 | 316 | 31.6 | .98 | 1.98 | 50 | .707 | 35 | 1.08 | 2.82 | 50 | 1.00 | 50 | 1.56 | 6.60 | 50 | 1.54 | 77.4 | 4.60 |
| 150 | 259 | 38.7 | .98 | 1.98 | 75 | .577 | 43 | 1.08 | 2.82 | 75 | .816 | 61 | 1.56 | 6.60 | 75 | 1.26 | 94.8 | 4.60 |
| 200 | 223 | 44.6 | .98 | 1.98 | 100 | .500 | 50 | 1.08 | 2.82 | 100 | .707 | 70 | 1.56 | 6.60 | 100 | 1.09 | 109.5 | 4.60 |
| 250 | 200 | 50 | .98 | 1.98 | 150 | .408 | 61 | 1.08 | 2.82 | 150 | .577 | 86 | 1.56 | 6.60 | 150 | .884 | 134 | 4.60 |
| 300 | 182 | 54.7 | .98 | 1.98 | 200 | .353 | 70 | 1.08 | 2.82 | 200 | .500 | 100 | 1.56 | 6.60 | 200 | .775 | 155 | 4.60 |
| 400 | 158 | 63.3 | .98 | 1.98 | 250 | .316 | 79 | 1.08 | 2.82 | 250 | .447 | 111 | 1.56 | 6.60 | 250 | .692 | 173 | 4.60 |
| 500 | 141 | 70.7 | .98 | 1.98 | 500 | .223 | 111 | 1.08 | 2.82 | 500 | .316 | 158 | 1.56 | 6.60 | 500 | .490 | 245 | 4.60 |
| 750 | 115 | 86.9 | .98 | 1.98 | 600 | .204 | 122 | 1.08 | 2.82 | 600 | .289 | 173 | 1.56 | 6.60 | 600 | .446 | 268 | 4.60 |
| 1000 | 100 | 100 | .98 | 1.98 | 750 | .182 | 137 | 1.08 | 2.82 | 750 | .258 | 193 | 1.56 | 6.60 | 750 | .400 | 300 | 4.60 |
| 1500 | 81 | 123 | .98 | 1.98 | 1000 | .158 | 158 | 1.08 | 2.82 | 1000 | .223 | 223 | 1.56 | 6.60 | 1000 | .346 | 346 | 4.60 |
| 2000 | 70 | 143 | .98 | 1.98 | 1500 | .129 | 193 | 1.08 | 2.82 | 1500 | .182 | 274 | 1.56 | 6.60 | 1500 | .282 | 424 | 4.60 |
| 2500 | 63 | 158 | .98 | 1.98 | 2000 | .111 | 223 | 1.08 | 2.82 | 2000 | .158 | 316 | 1.56 | 6.60 | 2000 | .245 | 490 | 4.60 |
| 3000 | 57 | 174 | .98 | 1.98 | 2500 | .100 | 250 | 1.08 | 2.82 | 2500 | .141 | 353 | 1.56 | 6.60 | 2500 | .219 | 548 | 4.60 |
| 4000 | 50 | 200 | .98 | 1.98 | 3000 | .091 | 273 | 1.08 | 2.82 | 3000 | .129 | 387 | 1.56 | 6.60 | 3000 | .200 | 600 | 4.60 |
| 5000 | 44 | 227 | .98 | 1.98 | 4000 | .079 | 316 | 1.08 | 2.82 | 4000 | .111 | 447 | 1.56 | 6.60 | 5000 | .154 | 774 | 4.60 |
| 7500 | 36 | 275 | .98 | 1.98 | 5000 | .070 | 353 | 1.08 | 2.82 | 5000 | .100 | 500 | 1.56 | 7.20 | 7500 | .126 | 948 | 4.60 |
| 10000 | 32 | 316 | .98 | 1.98 | 7500 | .057 | 432 | 1.26 | 3.24 | 7500 | .081 | 612 | 1.80 | 7.20 | 10000 | .109 | 1095 | 4.80 |
| | | | | 1.98 | 10000 | .050 | 500 | 1.26 | 3.24 | 10000 | .070 | 707 | 1.80 | 7.60 | 15000 | .089 | 1340 | 5.00 |
| | | | | 2.22 | 12000 | .046 | 548 | 1.26 | 3.24 | 12000 | .064 | 775 | 1.80 | 8.00 | 20000 | .077 | 1550 | 5.20 |
| | | | | 2.22 | 15000 | .041 | 612 | 1.26 | 3.24 | 15000 | .057 | 870 | 1.80 | 8.00 | 25000 | .069 | 1733 | 5.20 |
| | | | | 2.64 | 20000 | .035 | 707 | 1.44 | 3.24 | 20000 | .050 | 1000 | 1.80 | 8.40 | 50000 | .049 | 2450 | 5.60 |
| | | | | 2.64 | 25000 | .032 | 790 | 1.44 | 3.24 | 25000 | .044 | 1120 | 1.80 | | | | | |
| | | | | | *50000 | .022 | 1118 | 1.80 | 3.90 | 50000 | .032 | 1580 | 2.15 | | *75000 | .040 | 3000 | 6.35 |
| | | | | | *75000 | .018 | 1370 | 2.15 | | *75000 | .026 | 1936 | 2.50 | | *100000 | .034 | 3460 | 7.10 |
| | | | | | *100000 | .016 | 1580 | 2.40 | | *100000 | .022 | 2238 | 2.70 | | | | | |

Extra Bands, \$0.10

†Adjustable resistors are not of tropicalized construction.

*Type KT only.

Other types not listed in this catalog include: Hermetically-Sealed, Ferrule Terminal, Power Wire-Wound Resistors, with power ratings of 15, 20, 40, 50, 90, 120 and 150 watts. These are the famous Sprague Koolohm "Grade 1, Class 1" resistors that are impervious to salt water, thermal shock, and corrosive atmospheres.

Precision Meter Multiplier Resistors, Wire-Wound, Hermetically-Sealed. Resistance values up to 7.5 megohms per unit. Three types, MFA, MFB, and MFC. Resistance tolerances of $\pm 0.5\%$ and stability of $\pm 0.1\%$. The most rugged meter multipliers in the world!

Voltage Divider Resistors. Wire-wound power resistors with ratings of 10, 15, and 25 watts. Designed for through bolt mounting as individual units, or in multiple sections of any size to provide tapped voltage dividers.

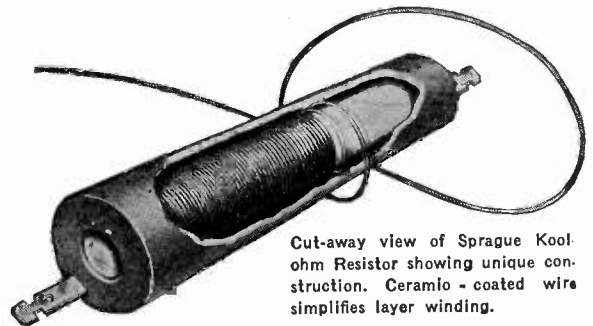
*MEGOMAX. High-resistance, High-Voltage, Resistors. Ferrule terminal, hermetically-sealed, composition resistors of pressed and sintered ring construction, capable of high-temperature operation to 150° C. Three types with resistance values to 1000 megohms; power ratings of 6, 12 and 22 watts and voltages up to 20,000 volts.

BOBBIN Wire-Wound, Semi-Precision Resistors. Wound with ceramic-insulated wire on high-temperature plastic forms. Five high stability types with

power ratings of 1, 2, 2.5, 3 and 5 watts, and resistance values to 500,000 ohms. Resistance tolerance down to $\pm 0.5\%$.

Complete details on the above and other new types are contained in the Sprague Koolohm Industrial Catalog No. C-551, copy of which will gladly be sent on request by industrial users. Sprague engineers welcome the opportunity to be of assistance regarding industrial resistor applications.

*Trademark applied for.



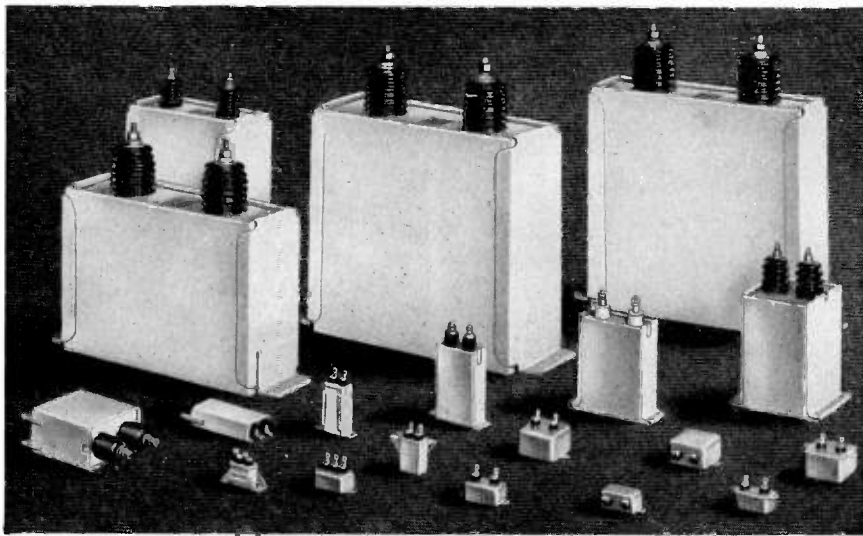
Cut-away view of Sprague Koolohm Resistor showing unique construction. Ceramio-coated wire simplifies layer winding.



PYRANOL* CAPACITORS

*Trade-mark reg. U. S. Pat. Off.

In accordance with Joint Army-Navy Specification JAN-C-25 Amendment-1.

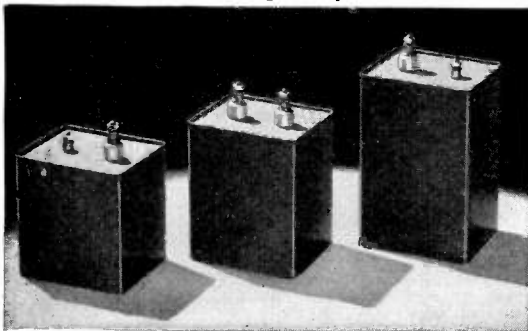


Case styles CP 53, 54, 55—Bathtub Style CP 70—Large Rectangular CP 61, 63, 65—Miniature Rectangular

All case styles are available in characteristic E and F. Single-section units are supplied with a capacitance tolerance of ± 10 per cent (K), and two- and three-section units with a capacitance tolerance of $+20$ per cent, -10 per cent (V). Spade-lug and footed mounting brackets are available for use with capacitors on which the mounting bracket is not an integral part.

Write for Bulletin GEA-4357.

Energy-storage discharge capacitors



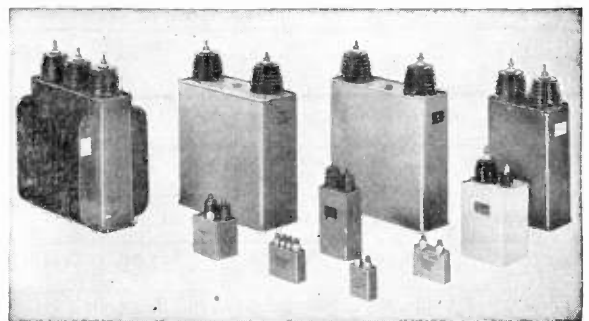
GE light-duty energy-storage capacitors are made in a wide range of ratings to fit practically every requirement of high-speed flash photography, as well as home and industrial welders for light metals. Careful construction, high-quality materials, and skillful design contribute to long life and efficient operation.

Write for Bulletin GEA-4646.

STANDARD RATINGS

| Max. D-c volts | Capacitance, Microfarads | Max. D-c volts | Capacitance, Microfarads |
|----------------|--------------------------|----------------|--------------------------|
| 2000 | 25 | 4000 | 12.5 |
| 2000 | 40 | 4000 | 25/50 |
| 2500 | 14 | 4000 | 100 |
| 2500 | 25.5 | 5000 | 25/50 |
| 3000 | 60 | 6000 | 55 |
| 3350 | 17.8 | 6000 | 25 |

Capacitor networks



General Electric pioneered in the development of mineral-oil-treated paper dielectric capacitor networks for air, sea, and land radar, and was a prime supplier for the government services. The products supplied varied from the miniature types used with aircraft radar to the large land station designs.

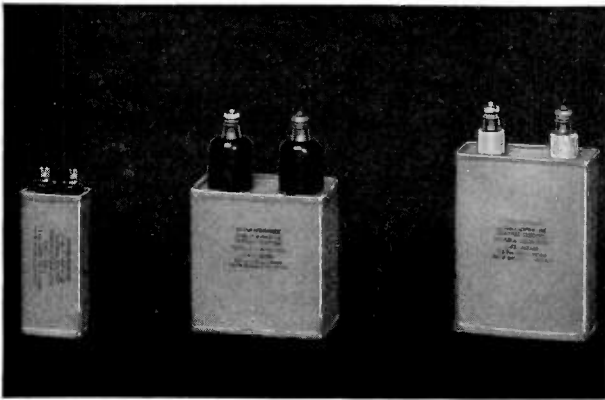
All of the general facilities and the highly specialized test equipment involved are being retained for further work in this field and inquiries on new requirements are solicited.



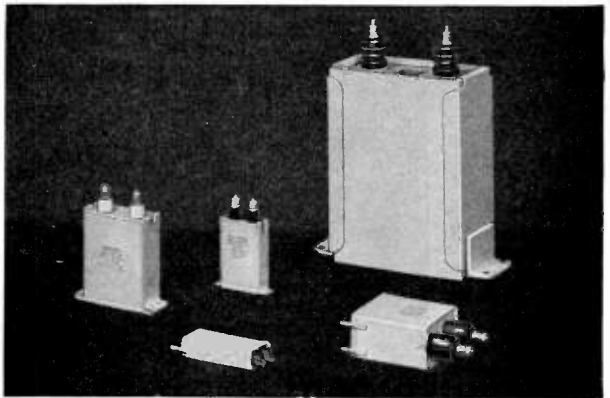
PYRANOL* CAPACITORS

*Trade-mark reg. U. S. Pat. Off.

Case Style 70



Case style 70 units with various types of terminals.



Case style 70 units with various types of removable mounting brackets.

These Pyranol fixed-paper-dielectric capacitors in case style 70 are hermetically sealed in rectangular cases. This line includes standard ratings, ranging from very small units weighing only three ounces to large high-voltage units weighing up to 175 pounds. All are of single-section construction, with a capacitance tolerance of ± 10 per cent. Cases are isolated and the two bushings are brought out through the cover. Units are available with either solder-lug terminals or with pillar-insulator terminals in 600-, 1000-, and 1500-volt ratings. All higher-voltage ratings have pillar-insulator terminals. These units may be operated in altitudes up to 7500 feet.

STANDARD RATINGS

| Nominal Direct Voltage Rating | Capacitance Ratings, Microfarads | Type of Terminals |
|-------------------------------|---|-------------------|
| 400 | 4.0, 6.0, 8.0, 10.0 | SI* or PI† |
| 600 | 1.0, 2.0, 4.0, 6.0, 8.0, 10.0, 12.0, 15.0, 20.0, 25.0 | SI or PI |
| 1000 | 1.0, 2.0, 4.0, 6.0, 8.0, 10.0, 12.0, 15.0 | SI or PI |
| 1500 | 0.10, 0.25, 0.50, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0, 12.0, 15.0 | SI or PI |
| 2000 | 0.10, 0.25, 0.50, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0, 12.0, 15.0 | PI |
| 2500 | 0.10, 0.25, 0.50, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0, 12.0, 20.0, 25.0, 55.0, 75.0 | PI |
| 3000 | 0.10, 0.25, 0.50, 1.0, 2.0, 4.0, 6.0, 8.0, 12.0, 20.0, 45.0, 60.0 | PI |
| 4000 | 0.10, 0.25, 0.50, 1.0, 2.0, 4.0, 6.0, 7.0, 13.0, 20.0, 30.0 | PI |
| 5000 | 0.10, 0.25, 0.50, 1.0, 2.0, 4.0, 6.0, 8.0, 14.0, 18.0 | PI |
| 6000 | 0.10, 0.25, 0.50, 1.0, 2.0, 4.0, 5.0, 10.0, 14.0 | PI |
| 7500 | 0.10, 0.25, 0.50, 1.0, 2.0, 3.0, 7.0, 9.0 | PI |

* Solder lug. † Pillar insulator.

Bushings with solder-lug terminals are made of molded Textolite, and those which have pillar-insulator terminals are of the highest-quality porcelain. All bushings are thoroughly bonded to the container to provide a permanent liquid-tight seal.

All units can be supplied with removable mounting brackets, as illustrated above. In addition to the screw-spade-lug brackets, two types of footed brackets are also available—one with a straight "L"-shaped foot and the other with a "U"-shaped foot that grips the bottom of the unit. The brackets can be attached to either the top or bottom of the unit, permitting either upright or inverted mounting.

Write for Bulletin GEA-2621.

STANDARD RATINGS

| Nominal Direct Voltage Rating | Capacitance Ratings, Microfarads | Type of Terminals |
|-------------------------------|--|-------------------|
| 10,000 | 0.10, 0.25, 0.50, 1.0, 1.5, 2.0, 3.5, 5.0 | PI |
| 12,500 | 0.10, 0.25, 0.50, 0.75, 1.0, 1.2, 2.5, 3.3 | PI |
| 15,000 | 0.25, 0.50, 0.75, 0.90, 1.75, 2.25 | PI |
| 20,000 | 0.15, 0.25, 0.50, 1.0, 1.25, 3.0 | PI |
| 25,000 | 0.10, 0.25, 0.60, 1.0 | PI |
| 30,000 | 0.25, 0.5, 0.75 | PI |
| 40,000 | 0.10, 0.20, 0.25, 0.35 | PI |
| 50,000 | 0.17, 0.25 | PI |
| 75,000‡ | 0.25 | PI |
| 100,000‡ | 0.125 | PI |

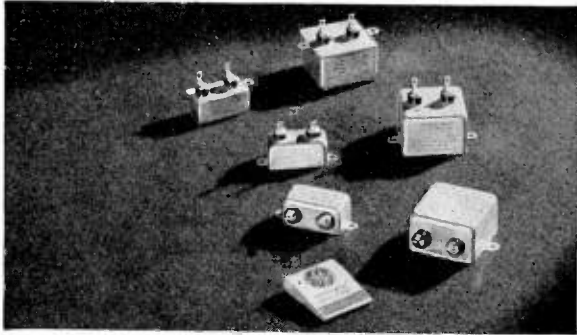
‡ Mid-point connected to case.



PYRANOL* CAPACITORS

*Trade-mark reg. U. S. Pat. Off.

Case styles 50, 51, and 52



These fixed-paper-dielectric "bathtub" capacitors are of small and compact construction, and will fit into very restricted places in radio and electronic equipments.

All three case styles are constructed with solder-lug terminals, and are available in single-section, two-section, or three-section construction for all circuit diagrams.

The hermetically sealed metallic containers are of drawn construction and include two integral mounting lugs.

The only difference in construction of the three case styles is in the location of the bushings, which are brought out through the side for case style 50 units, through the top for case style 51 units, and through the bottom for case style 52 units.

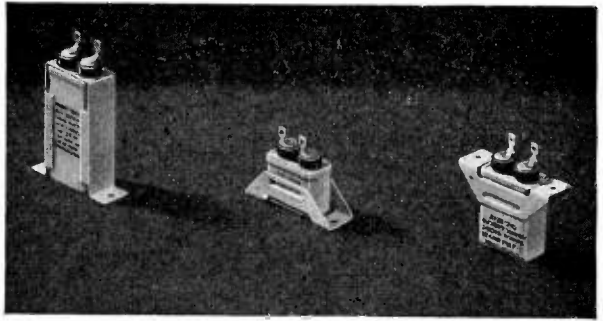
Write for Bulletin GEA-2621.

STANDARD RATINGS

| Type of Construction | Nominal Direct Voltage Rating | Capacitance Ratings, Microfarads* | Capitance Tolerance |
|----------------------|-------------------------------|-----------------------------------|---------------------|
| Single-section units | 600 | .05, .10, .25, .50, 1.0, 2.0 | ±10% |
| | 1000 | .05, .10, .25, .50, 1.0 | |
| Two-section units | 600 | .05, .10, .25, .50, 1.0 | +20% -10% |
| | 1000 | .05, .10, .25, .50 | |
| Three-section units | 600 | .05, .10, .25, .50 | +20% -10% |
| | 1000 | .05, .10, .25 | |

* Capacitance per section of two- and three-section units.

Case styles 60, 62, and 64



These small rectangular-case fixed-paper-dielectric units are of narrower width than the "bathtub" units, and will fit into a very restricted panel surface, where case height is not the limiting dimension. Mounting lugs, of either the removable or attached type, are of very sturdy construction.

All three case styles are constructed with solder-lug terminals, and are available in either single-section or dual-section construction for all circuit diagrams.

The metallic containers are hermetically sealed, and of deep-drawn construction.

Case style 60 units have no brackets, but removable brackets of either the footed or screw-spade-lug type can be supplied, while the case style 62 and case style 64 units have soldered-on brackets for upright or inverted mounting, respectively.

STANDARD RATINGS

| Type of Construction | Nominal Direct Voltage Rating | Capacitance Ratings, Microfarads* | Capacitance Tolerance |
|----------------------|-------------------------------|-----------------------------------|-----------------------|
| Single-section units | 400 | 2.0 | ±10% |
| | 600 | .05, .10, .25, .50, 1.0 | |
| | 1000 | .01, .02, .05, .10, .25, .50 | |
| Two-section units | 600 | .05, .10, .25, .50 | +20% -10% |
| | 1000 | .01, .02, .05, .10, .25 | |

* Capacitance per section of two-section units.

Case styles 66-68



Case styles 66 and 68 units are similar to the case style 62 and 64 designs but slightly greater in width to accommodate three terminals.

Both case styles are constructed with solder lug terminals and are available in single-section, two-section, or three-section units. The metallic containers are deep-drawn construction and are hermetically sealed.

Case style 66 units have integral mounting brackets for base mounting, and case style 68 units integral mounting brackets for inverted mounting.

STANDARD RATINGS

| Type of Construction | Nominal Direct Voltage Rating | Capacitance Ratings, Microfarads* | Cap. Toler. |
|----------------------|-------------------------------|------------------------------------|--------------|
| Single-section units | 600 | 0.05, 0.10, 0.25, 0.50, 1.0 | ±10% |
| | 1000 | 0.01, 0.02, 0.05, 0.10, 0.25, 0.50 | |
| Two-section units | 600 | 0.05, 0.10, 0.25, 0.50 | +20% -10% |
| | 1000 | 0.01, 0.02, 0.05, 0.10, 0.25 | |
| Three-section units | 600 | 0.05, 0.10, 0.25 | +20% -10% |
| | 1000 | 0.01, 0.02, 0.05, 0.10, 0.25 | |

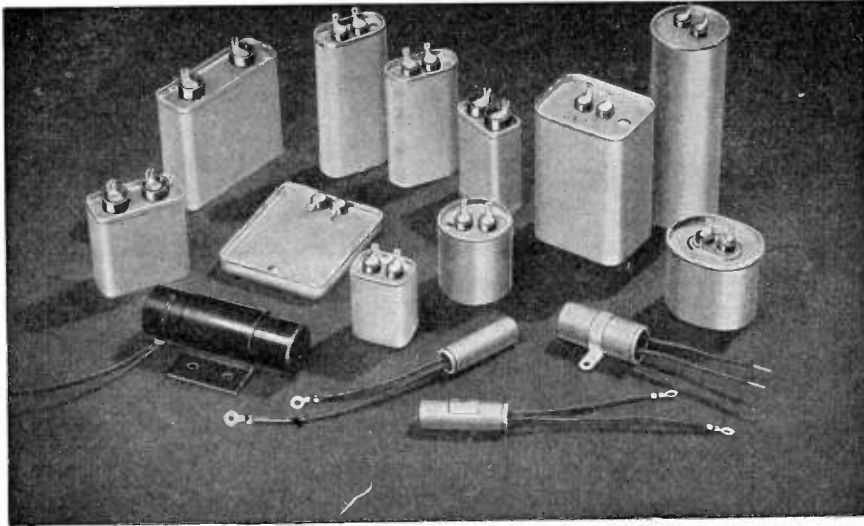
* Capacitance per section of two- and three-section units.



PYRANOL* CAPACITORS

*Trade-mark reg. U. S. Pat. Off.

FOR GENERAL-PURPOSE A-C APPLICATIONS



Small a-c Pyranol capacitors are recommended for use with motors, luminous-tube transformers, industrial control, and other equipment.

The use of Pyranol* as a treating material, because of its high dielectric strength, high permittivity, and exceptional stability, has made possible a marked reduction in physical size, as well as a capacitor far superior to those formerly available.

Design advantages

- (1) Small and compact units, because of the use of Pyranol.
- (2) Wide range of ratings available in rectangular, cylindrical and oval cases.
- (3) Three styles of mounting brackets are available and supplied separate from the units. Units may be operated in any position.

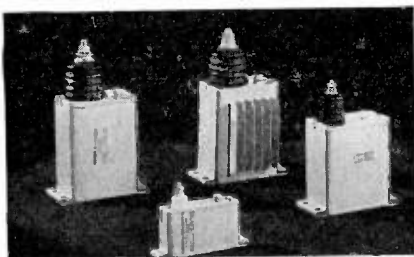
Write for Bulletin GEA-2027

STANDARD RATINGS

| Rated Voltage 60 Cycles | Fabricated Rectangular | Drawn Rectangular | Drawn Cylindrical | Shallow Drawn | Oval Drawn |
|----------------------------|---------------------------|----------------------|----------------------|------------------|---------------|
| 220 | 1-15 muf | ..... | ..... | ..... | 2-6 muf |
| 236 | 1-20 muf | ..... | ..... | ..... | ..... |
| 250 | ..... | ..... | ..... | 2-3.5 muf | ..... |
| 330 | 1-50 muf | 1-17.5 muf | 2.5-11 muf | ..... | 2-3.5 muf |
| 440 | 1-28 muf | ..... | ..... | ..... | 2-4 muf |
| 660 | 1-15 muf | ..... | ..... | ..... | 1.75 muf |

Represents only a list of standard ratings. Ratings other than these listed will be supplied when required.

CAPACITORS FOR OSCILLATOR TANK CIRCUITS



This line of fixed-paper-dielectric capacitors has been developed primarily for grid and plate blocking service in the electronic oscillator circuits of high-frequency induction-heating equipments. They can also be used to advantage in other high-frequency oscillator circuits of a similar nature.

G-E high-voltage paper-dielectric capacitors are of relatively high capacitance (0.01 mu f) for high-frequency units, and yet they are more economical than conventional high-frequency units of considerably smaller capacitance values. They can, therefore, be applied with savings in cost as well as reduced losses and lower voltage drop across the capacitor.

features

- Hermetically sealed in metallic cases.
- Single-bushing construction for minimum size.
- Removable mounting brackets.
- Internal lead connections arranged for minimum inductance.

Write for Bulletin GEA-4388.

STANDARD RATINGS

| D-c Voltage Rating | Microfarad Rating |
|-----------------------|----------------------|
| 5000 | 0.01 |
| 15,000 | 0.01 |
| 20,000 | 0.01 |
| 20,000* | 0.01 |

* With cooling fins for higher current-carrying capacity.
Capacitance tolerance $\pm 10\%$.

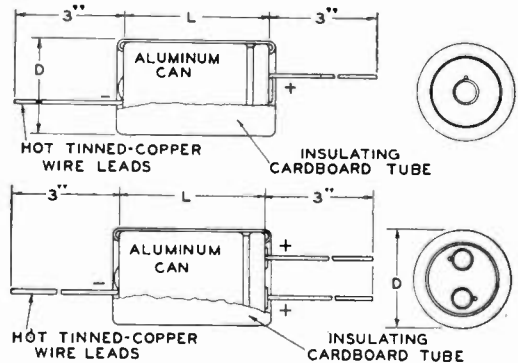
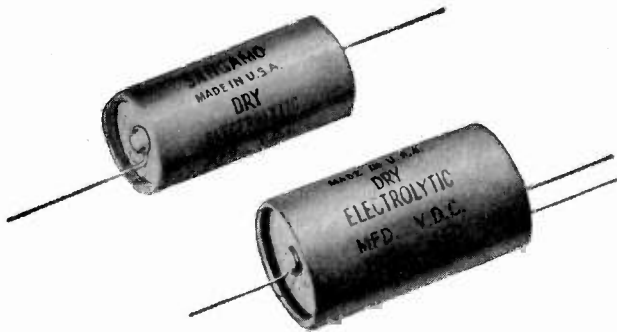
SANGAMO CAPACITORS

Electrolytics by Sangamo

TYPE MT

TYPE MTD

Chieftain



Hermetically sealed in round aluminum tubes, these DC dry tubular electrolytics have heavy insulating sleeves on which polarity is clearly indicated. Double pure paper spacers assure adequate breakdown characteristics and all sections are tightly held in place within the container. Multiple staking connects the terminal tabs to the electrodes and provides permanent low resistance contact throughout the life of the capacitor. Low voltage units utilize etched cathodes to maintain uniform capacity when these capacitors are subjected to heat and high ripple currents.

TYPE MT—Single Section

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgsstd. Resale |
|----------------|---------------|--------------------|------|-------|------------|----------------|
| | | | D | L | | |
| MT 0210 | 10 | 25 | 5/8 | 1 1/8 | \$0.75 | \$0.45 |
| MT 0225 | 25 | 25 | 5/8 | 1 1/8 | .85 | .51 |
| MT 0250 | 50 | 25 | 5/8 | 1 1/8 | .95 | .57 |
| MT 02100 | 100 | 25 | 5/8 | 1 1/8 | 1.20 | .72 |
| MT 0510 | 10 | 50 | 5/8 | 1 1/8 | .80 | .48 |
| MT 0525 | 25 | 50 | 5/8 | 1 1/8 | .90 | .54 |
| MT 0550 | 50 | 50 | 5/8 | 1 1/8 | 1.05 | .63 |
| MT 1504 | 4 | 150 | 5/8 | 1 1/8 | .75 | .45 |
| MT 1508 | 8 | 150 | 5/8 | 1 1/8 | .80 | .48 |
| MT 1512 | 12 | 150 | 5/8 | 1 1/8 | .85 | .51 |
| MT 1516 | 16 | 150 | 5/8 | 1 1/8 | .90 | .54 |
| MT 1520 | 20 | 150 | 5/8 | 1 1/8 | .95 | .57 |
| MT 1530 | 30 | 150 | 5/8 | 1 1/8 | 1.00 | .60 |
| MT 1540 | 40 | 150 | 5/8 | 1 1/8 | 1.10 | .66 |
| MT 1550 | 50 | 150 | 5/8 | 1 1/8 | 1.20 | .72 |

NOTE: Metal mounting straps are available at extra cost. They are not supplied as a standard item.

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgsstd. Resale |
|----------------|---------------|--------------------|------|-------|------------|----------------|
| | | | D | L | | |
| MT 2508 | 8 | 250 | 5/8 | 1 1/8 | \$0.80 | \$0.48 |
| MT 2512 | 12 | 250 | 5/8 | 1 1/8 | 1.00 | .60 |
| MT 2516 | 16 | 250 | 5/8 | 1 1/8 | 1.10 | .66 |
| MT 2520 | 20 | 250 | 5/8 | 1 1/8 | 1.20 | .72 |
| MT 2540 | 40 | 250 | 5/8 | 2 1/8 | 1.40 | .84 |
| MT 3508 | 8 | 350 | 5/8 | 1 1/8 | .90 | .54 |
| MT 3512 | 12 | 350 | 5/8 | 1 1/8 | 1.05 | .63 |
| MT 3516 | 16 | 350 | 5/8 | 1 1/8 | 1.20 | .72 |
| MT 4504 | 4 | 450 | 5/8 | 1 1/8 | .90 | .54 |
| MT 4508 | 8 | 450 | 5/8 | 1 1/8 | .95 | .57 |
| MT 4510 | 10 | 450 | 5/8 | 1 1/8 | 1.05 | .63 |
| MT 4512 | 12 | 450 | 5/8 | 1 1/8 | 1.15 | .69 |
| MT 4516 | 16 | 450 | 5/8 | 1 1/8 | 1.35 | .81 |
| MT 4520 | 20 | 450 | 1 | 1 1/8 | 1.50 | .90 |
| MT 4530 | 30 | 450 | 1 | 2 1/8 | 1.65 | .99 |
| MT 4540 | 40 | 450 | 1 | 2 1/8 | 2.00 | 1.20 |

NOTE: Packaging 10, 25 or 50 Capacitors per display carton.

TYPE MTD—Dual Common Negative Sections

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgsstd. Resale |
|----------------|---------------|--------------------|------|-------|------------|----------------|
| | | | D | L | | |
| MTD 0210 | 10-10 | 25 | 5/8 | 1 1/8 | \$1.05 | \$0.63 |
| MTD 0220 | 20-20 | 25 | 5/8 | 1 1/8 | 1.10 | .66 |
| MTD 1520 | 20-20 | 150 | 5/8 | 1 1/8 | 1.30 | .78 |
| MTD 1530 | 30-30 | 150 | 5/8 | 1 1/8 | 1.50 | .90 |
| MTD 301 | 50-30 | 150 | 1 | 1 1/8 | 1.70 | 1.02 |
| MTD 302 | 40-20 | 150 | 1 | 1 1/8 | 1.50 | .90 |
| MTD 1540 | 40-40 | 150 | 1 | 1 1/8 | 1.70 | 1.02 |

NOTE: Metal mounting straps are available at extra cost. They are not supplied as a standard item.

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgsstd. Resale |
|----------------|---------------|--------------------|------|-------|------------|----------------|
| | | | D | L | | |
| MTD 2520 | 20-20 | 250 | 1 | 1 1/8 | \$1.80 | \$1.08 |
| MTD 3520 | 20-20 | 350 | 1 | 2 1/8 | 2.10 | 1.26 |
| MTD 4508 | 8-8 | 450 | 5/8 | 1 1/8 | 1.70 | 1.02 |
| MTD 4510 | 10-10 | 450 | 1 | 1 1/8 | 1.85 | 1.11 |
| MTD 4520 | 20-20 | 450 | 1 | 2 1/8 | 2.50 | 1.50 |

NOTE: Packaging 10, 25 or 50 Capacitors per display carton.

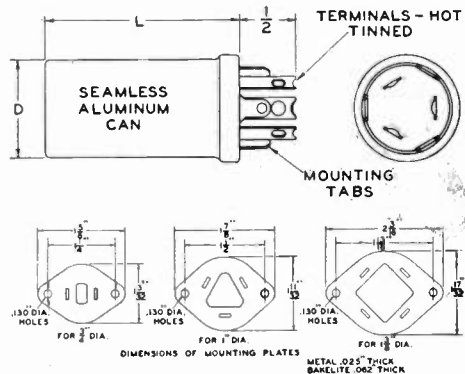
SANGAMO CAPACITORS

ELECTROLYTIC CAPACITORS

TYPE PL *Warrior*



Hermetically sealed, these capacitors are made in all standard dimensions and ratings common to the industry. Each unit supplied with a bakelite and metal mounting plate.



TYPE PL—Single Section

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgstd. Resale |
|----------------|---------------|--------------------|-------|-------|------------|---------------|
| | | | D | L | | |
| PL 700 | 3000 | 10 | 1 3/8 | 3 | \$4.50 | \$2.70 |
| PL 701 | 1000 | 15 | 1 | 3 | 3.25 | 1.95 |
| PL 703 | 2000 | 15 | 1 3/8 | 3 | 4.70 | 2.82 |
| PL 02100 | 100 | 25 | 1 | 2 | 1.45 | .87 |
| PL 02500 | 500 | 25 | 1 | 3 | 2.45 | 1.47 |
| PL 705 | 1000 | 25 | 1 3/8 | 3 | 3.55 | 2.13 |
| PL 05500 | 50 | 50 | 1 3/8 | 3 | 3.55 | 2.13 |
| PL 1530 | 30 | 150 | 1 3/8 | 2 | 1.25 | .75 |
| PL 1550 | 150 | 150 | 1 3/8 | 2 | 1.45 | .87 |
| PL 15100 | 100 | 150 | 1 | 3 | 1.95 | 1.17 |
| PL 4510 | 10 | 450 | 1 | 2 | 1.30 | .78 |
| PL 4515 | 15 | 450 | 1 | 2 | 1.55 | .93 |
| PL 4520 | 20 | 450 | 1 | 2 | 1.75 | 1.05 |
| PL 4530 | 30 | 450 | 1 | 2 1/2 | 1.90 | 1.14 |
| PL 4540 | 40 | 450 | 1 | 3 | 2.25 | 1.35 |
| PL 4580 | 80 | 450 | 1 3/8 | 3 | 3.85 | 2.31 |
| PL 5010 | 10 | 500 | 1 | 2 1/2 | 1.75 | 1.05 |
| PL 5020 | 20 | 500 | 1 | 3 | 2.65 | 1.59 |

TYPE PL—Dual Sections

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgstd. Resale |
|----------------|---------------|--------------------|-------|-------|------------|---------------|
| | | | D | L | | |
| PLD 0240 | 40-40 | 25 | 1 | 2 | \$1.50 | \$0.90 |
| PLD 1520 | 20-20 | 150 | 1 | 2 | 1.55 | .93 |
| PLD 710 | 30-20 | 150 | 1 | 2 | 1.65 | .99 |
| PLD 1530 | 30-30 | 150 | 1 | 2 | 1.75 | 1.05 |
| PLD 712 | 40-20 | 150 | 1 | 2 | 1.75 | 1.05 |
| PLD 714 | 40-30 | 150 | 1 | 2 | 1.85 | 1.11 |
| PLD 1540 | 40-40 | 150 | 1 | 2 | 1.95 | 1.17 |
| PLD 716 | 50-30 | 150 | 1 | 2 | 1.95 | 1.17 |
| PLD 1550 | 50-50 | 150 | 1 | 2 1/2 | 2.10 | 1.26 |
| PLD 2520 | 20-20 | 250 | 1 | 2 | 1.75 | 1.05 |
| PLD 3515 | 15-15 | 350 | 1 | 2 | 2.10 | 1.26 |
| PLD 3520 | 20-20 | 350 | 1 | 2 1/2 | 2.35 | 1.41 |
| PLD 4510 | 10-10 | 450 | 1 | 2 | 2.10 | 1.26 |
| PLD 4520 | 20-20 | 450 | 1 | 2 | 2.65 | 1.59 |
| PLD 4530 | 30-30 | 450 | 1 3/8 | 2 1/2 | 3.25 | 1.95 |
| PLD 4540 | 40-40 | 450 | 1 3/8 | 3 | 4.00 | 2.40 |
| PLD 717 | 80-10 | 400 | 1 3/8 | 3 | 4.00 | 2.40 |

TYPE PL—Triple Sections

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgstd. Resale |
|----------------|---------------|--------------------|-------|-------|------------|---------------|
| | | | D | L | | |
| PLT 1520 | 20-20-20 | 150 | 1 | 2 | \$2.30 | \$1.38 |
| PLT 738 | 40-30-20 | 150 | 1 | 2 | 2.45 | 1.47 |
| PLT 1540 | 40-40-40 | 150 | 1 | 2 1/2 | 2.60 | 1.56 |
| PLT 4510 | 10-10-10 | 450 | 1 | 2 | 2.50 | 1.50 |
| PLT 4520 | 20-20-20 | 450 | 1 3/8 | 2 1/2 | 3.45 | 2.07 |
| PLY 748 | 20-20/20 | 150/25 | 1 | 2 | 2.00 | 1.20 |
| PLY 749 | 40-20/20 | 150/25 | 1 | 2 | 2.20 | 1.32 |

NOTES

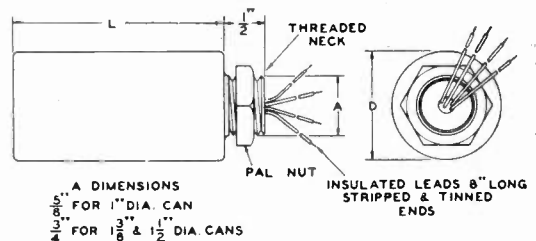
Each unit is supplied with a bakelite and a metal mounting plate. Additional hardware available at extra cost.

Packaging, individual display carton.

TYPE SL *Mohican*



Designed primarily as a better replacement for wet electrolytics. All leads completely insulated from can. Palnut is supplied.



A DIMENSIONS FOR 1" DIA. CAN
4 1/2 DIA. FOR 3/8" & 1/2" DIA. CANS

TYPE SL

| Catalog Number | Capacity Mfd. | Single Section Working Volts D.C. | Size | | List Price | Sgstd. Resale |
|----------------|---------------|-----------------------------------|-------|-------|------------|---------------|
| | | | D | L | | |
| SL 2512 | 12 | 250 | 1 | 2 1/2 | \$1.75 | \$1.05 |
| SL 2525 | 25 | 250 | 1 | 3 1/2 | 2.00 | 1.20 |
| SL 4508 | 8 | 450 | 1 | 2 1/2 | 1.75 | 1.05 |
| SL 4512 | 12 | 450 | 1 | 2 1/2 | 2.15 | 1.29 |
| SL 4516 | 16 | 450 | 1 | 3 1/2 | 2.40 | 1.44 |
| SL 4520 | 20 | 450 | 1 3/8 | 2 1/2 | 2.65 | 1.59 |
| SL 4530 | 30 | 450 | 1 3/8 | 3 1/2 | 3.00 | 1.80 |
| SL 4540 | 40 | 450 | 1 3/8 | 4 1/4 | 3.40 | 2.04 |

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Sgstd. Resale |
|-------------------------------|---------------|--------------------|-------|-------|------------|---------------|
| | | | D | L | | |
| SL 6004 | 4 | 600 | 1 3/8 | 3 1/2 | \$3.00 | \$1.80 |
| SL 6008 | 8 | 600 | 1 3/8 | 3 1/2 | 4.00 | 2.40 |
| SL 6016 | 16 | 600 | 1 1/2 | 4 1/4 | 5.00 | 3.00 |
| Dual Common Negative Sections | | | | | | |
| SLD 2508 | 8-8 | 250 | 1 3/8 | 2 1/2 | \$2.30 | \$1.38 |
| SLD 4508 | 8-8 | 450 | 1 3/8 | 2 1/2 | 2.75 | 1.65 |
| SLD 4516 | 16-16 | 450 | 1 3/8 | 3 1/2 | 3.50 | 2.10 |
| SLD 4520 | 20-20 | 450 | 1 3/8 | 4 1/4 | 4.00 | 2.40 |

NOTE: Insulated leads are color-coded and are 8" long with 1/2" at ends skinned and tinned. Palnut is supplied.

NOTE: Packaging, individual display carton.

SANGAMO CAPACITORS

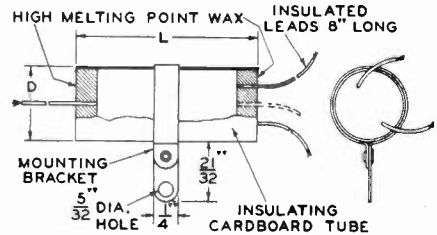
TYPE CS

ELECTROLYTIC CAPACITORS

Tomahawk



These capacitors are contained in a cardboard tube and have 8-inch insulated leads extending from both ends sealed in pitch to insure permanency. Each unit is supplied with a mounting strap around the tube to facilitate mounting to the chassis.



TYPE CS—Dual Common Negative Sections

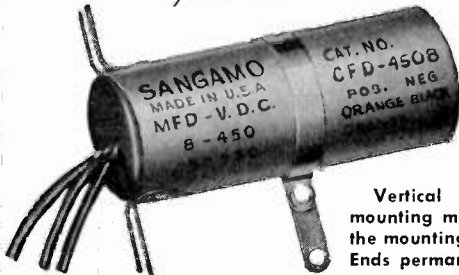
| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Suggested Resale |
|----------------|---------------|--------------------|-----------------|------------------|------------|------------------|
| | | | D | L | | |
| CSD 0210 | 10-10 | 25 | $\frac{3}{8}$ " | $2\frac{3}{8}$ " | \$1.05 | \$0.63 |
| CSD 0510 | 10-10 | 50 | $\frac{3}{8}$ " | $2\frac{3}{8}$ " | 1.15 | .69 |
| CSD 502 | 20-10 | 150 | $\frac{3}{8}$ " | $2\frac{1}{2}$ " | 1.25 | .75 |
| CSD 1520 | 20-20 | 150 | $\frac{3}{8}$ " | $2\frac{1}{2}$ " | 1.30 | .78 |
| CSD 1530 | 30-30 | 150 | $\frac{3}{8}$ " | $2\frac{1}{2}$ " | 1.50 | .90 |
| CSD 505 | 40-20 | 150 | 1" | $2\frac{1}{2}$ " | 1.50 | .90 |

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Size | | List Price | Suggested Resale |
|----------------|---------------|--------------------|-----------------|------------------|------------|------------------|
| | | | D | L | | |
| CSD 1540 | 40-40 | 150 | 1" | $2\frac{1}{2}$ " | \$1.70 | \$1.02 |
| CSD 512 | 50-30 | 150 | 1" | $2\frac{1}{2}$ " | 1.70 | 1.02 |
| CSD 1550 | 50-50 | 150 | 1" | $2\frac{1}{2}$ " | 1.85 | 1.11 |
| CSD 516 | 8-16 | 250 | $\frac{1}{2}$ " | $2\frac{1}{2}$ " | 1.60 | .96 |
| CSD 2516 | 16-16 | 250 | 1" | $2\frac{1}{2}$ " | 1.70 | 1.02 |
| CSD 4508 | 8-8 | 450 | 1" | $2\frac{1}{2}$ " | 1.70 | 1.02 |
| CSD 522 | 8-16 | 450 | 1" | $2\frac{1}{2}$ " | 2.00 | 1.20 |

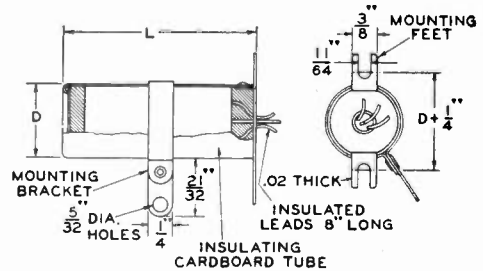
NOTE: Packaging 10, 25 or 50 Capacitors per display carton.

TYPE CF

Apache



Vertical or horizontal mounting made possible by the mounting feet and strap. Ends permanently sealed.



TYPE CF

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Single Section | | List Price | Suggested Resale |
|----------------|---------------|--------------------|-----------------|------------------|------------|------------------|
| | | | D | L | | |
| CF 1520 | 20 | 150 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | \$1.15 | \$0.69 |
| CF 2508 | 8 | 250 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | 1.05 | .63 |
| CF 2516 | 16 | 250 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | 1.30 | .78 |
| CF-2524 | 24 | 250 | 1" | $2\frac{3}{4}$ " | 1.45 | .87 |
| CF 3508 | 8 | 350 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | 1.10 | .66 |
| CF 3512 | 12 | 350 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | 1.30 | .78 |
| CF 3516 | 16 | 350 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | 1.45 | .87 |
| CF 3524 | 24 | 350 | 1" | $3\frac{5}{8}$ " | 1.55 | .93 |
| CF 4508 | 8 | 450 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | 1.15 | .69 |
| CF 4512 | 12 | 450 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | 1.35 | .81 |

| Catalog Number | Capacity Mfd. | Working Volts D.C. | Dual Common Negative Sections | | List Price | Suggested Resale |
|----------------|---------------|--------------------|-------------------------------|------------------|------------|------------------|
| | | | D | L | | |
| CF 4516 | 16 | 450 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | \$1.55 | \$0.93 |
| CF 4530 | 30 | 450 | 1" | $3\frac{5}{8}$ " | 1.85 | 1.11 |
| CFD 1520 | 20-20 | 150 | $\frac{7}{8}$ " | $2\frac{1}{2}$ " | \$1.50 | \$0.90 |
| CFD 1530 | 30-30 | 150 | 1" | $2\frac{7}{8}$ " | 1.70 | 1.02 |
| CFD 1550 | 50-50 | 150 | 1 $\frac{1}{8}$ " | $3\frac{1}{8}$ " | 2.05 | 1.23 |
| CFD 2508 | 8-8 | 250 | 1" | $2\frac{3}{4}$ " | 1.65 | .99 |
| CFD 3508 | 8-8 | 350 | 1" | $2\frac{3}{4}$ " | 1.80 | 1.08 |
| CFD 4508 | 8-8 | 450 | 1" | $2\frac{7}{8}$ " | 1.90 | 1.14 |

NOTE: Packaging 10, 25 or 50 Capacitors per display carton.

COLOR CODE OF WIRE LEADS FOR TYPES CF, CS AND SL ELECTROLYTIC CAPACITORS

Black..... Common Negative
 Orange..... Positive, Highest voltage or capacity
 Red..... Positive, next highest voltage or capacity

Blue..... Positive, next highest voltage or capacity
 Yellow..... Positive, next highest voltage or capacity
 Brown..... Negative, in separate section unit

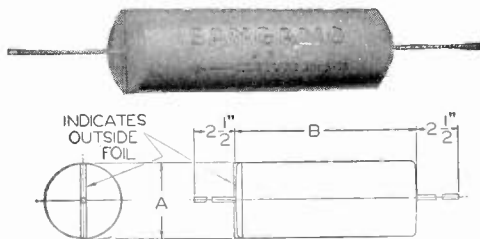
NOTE: Lead colors are determined by the rated working voltages. Where there are two or more sections of different voltages and the same capacity, the lead color will be determined by the voltage; with the same voltages and unequal capacities the lower capacity takes the next color in the sequence.

NOTE: Based upon proposed R.M.A. color code.

SANGAMO CAPACITORS

TYPE 30 PLASTIC MOLDED PAPER TUBULAR CAPACITORS

"Molded Like Micas"



Here is an entirely new concept in paper tubular construction: capacitors which are molded in plastic—just like micas! The immediate results are obvious: more stable capacity values, excellent seal characteristics, and application at higher ambient temperatures. In the long run, too, the result is obvious: a new standard of permanence. Halowax impregnation is suitable for operation in ambient temperature ranges from -55°C . to $+55^{\circ}\text{C}$.

| Catalog Number | Capacity Mfd. | Size Inches A x B | List Price | Net Price |
|---------------------------|---------------|------------------------------------|------------|-----------|
| 200 V.D.C. Working | | | | |
| 300221 | .001 | $\frac{3}{8} \times 1\frac{1}{8}$ | \$0.25 | \$0.15 |
| 300225 | .005 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300211 | .01 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300212 | .02 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300215 | .05 | $\frac{7}{16} \times 1\frac{1}{4}$ | .30 | .18 |
| 300201 | .1 | $\frac{1}{2} \times 1\frac{1}{2}$ | .35 | .21 |
| 3002015 | .15 | $\frac{9}{16} \times 1\frac{5}{8}$ | .35 | .21 |
| 300202 | .2 | $\frac{9}{16} \times 1\frac{5}{8}$ | .40 | .24 |
| 3002025 | .25 | $\frac{5}{8} \times 2$ | .45 | .27 |
| 300205 | .5 | $\frac{3}{4} \times 2$ | .60 | .36 |
| 300210 | 1. | $1 \times 2\frac{1}{8}$ | .90 | .54 |

| Catalog Number | Capacity Mfd. | Size Inches A x B | List Price | Net Price |
|---------------------------|---------------|------------------------------------|------------|-----------|
| 400 V.D.C. Working | | | | |
| 300421 | .001 | $\frac{3}{8} \times 1\frac{1}{8}$ | \$0.25 | \$0.15 |
| 300411 | .01 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300412 | .02 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300415 | .05 | $\frac{7}{16} \times 1\frac{1}{4}$ | .30 | .18 |
| 300401 | .1 | $\frac{9}{16} \times 1\frac{5}{8}$ | .35 | .21 |
| 3004015 | .15 | $\frac{9}{16} \times 1\frac{5}{8}$ | .35 | .21 |
| 300402 | .2 | $\frac{5}{8} \times 2$ | .40 | .24 |
| 3004025 | .25 | $\frac{5}{8} \times 2$ | .45 | .27 |
| 300405 | .5 | $\frac{7}{8} \times 2$ | .60 | .36 |
| 300410 | 1. | $1\frac{1}{8} \times 2\frac{1}{2}$ | .90 | .54 |

Prices subject to change without notice.

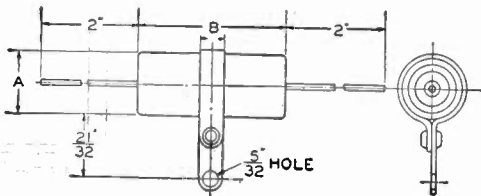
| Catalog Number | Capacity Mfd. | Size Inches A x B | List Price | Net Price |
|---------------------------|---------------|------------------------------------|------------|-----------|
| 600 V.D.C. Working | | | | |
| 3006325 | .00025 | $\frac{3}{8} \times 1\frac{1}{8}$ | \$0.25 | \$0.15 |
| 300635 | .0005 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300621 | .001 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300622 | .002 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300623 | .003 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300624 | .004 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300625 | .005 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300626 | .006 | $\frac{3}{8} \times 1\frac{1}{8}$ | .25 | .15 |
| 300611 | .01 | $\frac{7}{16} \times 1\frac{1}{4}$ | .30 | .18 |
| 3006115 | .015 | $\frac{7}{16} \times 1\frac{1}{4}$ | .30 | .18 |
| 300612 | .02 | $\frac{7}{16} \times 1\frac{1}{4}$ | .30 | .18 |
| 3006125 | .025 | $\frac{1}{2} \times 1\frac{1}{2}$ | .35 | .21 |
| 300614 | .04 | $\frac{1}{2} \times 1\frac{1}{2}$ | .35 | .21 |
| 300615 | .05 | $\frac{9}{16} \times 1\frac{5}{8}$ | .40 | .24 |
| 300616 | .06 | $\frac{9}{16} \times 1\frac{5}{8}$ | .40 | .24 |
| 300601 | .1 | $\frac{5}{8} \times 2$ | .45 | .27 |
| 3006015 | .15 | $\frac{3}{4} \times 2$ | .50 | .30 |
| 300602 | .2 | $\frac{7}{8} \times 2$ | .55 | .33 |
| 3006025 | .25 | $\frac{7}{8} \times 2$ | .55 | .33 |
| 300605 | .5 | $1\frac{1}{8} \times 2\frac{1}{2}$ | .80 | .48 |
| 300610 | 1. | $1\frac{3}{8} \times 2\frac{5}{8}$ | 1.25 | .75 |

| Catalog Number | Capacity Mfd. | Size Inches A x B | List Price | Net Price |
|----------------------------|---------------|------------------------------------|------------|-----------|
| 1000 V.D.C. Working | | | | |
| 301021 | .001 | $\frac{3}{8} \times 1\frac{1}{8}$ | \$0.30 | \$0.18 |
| 301022 | .002 | $\frac{3}{8} \times 1\frac{1}{8}$ | .30 | .18 |
| 301023 | .003 | $\frac{3}{8} \times 1\frac{1}{8}$ | .35 | .21 |
| 301024 | .004 | $\frac{3}{8} \times 1\frac{1}{8}$ | .35 | .21 |
| 301025 | .005 | $\frac{7}{16} \times 1\frac{1}{4}$ | .40 | .24 |
| 301026 | .006 | $\frac{7}{16} \times 1\frac{1}{4}$ | .40 | .24 |
| 301011 | .01 | $\frac{7}{16} \times 1\frac{1}{4}$ | .50 | .30 |
| 3010115 | .015 | $\frac{1}{2} \times 1\frac{1}{2}$ | .50 | .30 |
| 301012 | .02 | $\frac{1}{2} \times 1\frac{1}{2}$ | .50 | .30 |
| 301013 | .03 | $\frac{9}{16} \times 1\frac{5}{8}$ | .55 | .33 |
| 301015 | .05 | $\frac{5}{8} \times 2$ | .60 | .36 |
| 301016 | .06 | $\frac{5}{8} \times 2$ | .60 | .36 |
| 301001 | .1 | $\frac{3}{4} \times 2$ | .75 | .45 |
| 3010025 | .25 | $1\frac{1}{8} \times 2\frac{1}{2}$ | .85 | .51 |

Prices subject to change without notice.

SANGAMO CAPACITORS

TYPES 20 AND 21 METAL CASED MINERAL OIL PAPER CAPACITORS



TYPES 20 AND 21

Designed for by-pass and coupling applications, Types 20 and 21 capacitors are non-inductively wound paper capacitors impregnated in mineral oil of greatest stability and housed in metal tubes. The Type 21, having terminals insulated from the case, is covered with a cardboard sleeve. The Type 20, having one terminal grounded to the case, is similarly covered unless specified without sleeve. The Type 20, priced the same as the Type 21, has the same diameter as the Type 21 but is $\frac{1}{8}$ " shorter in length.

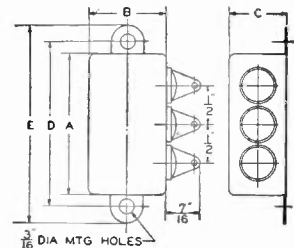
Types 20 & 21

| Catalog Number | Capacity Mfd. | Size Inches A x B | List Price | Net Price |
|----------------------------|---------------|------------------------------------|------------|-----------|
| 200 V.D.C. Working | | | | |
| 2102-.005 | .005 | $\frac{1}{2} \times 1\frac{5}{8}$ | \$0.90 | \$0.54 |
| 2102-.01 | .01 | $\frac{1}{2} \times 1\frac{5}{8}$ | .90 | .54 |
| 2102-1 | .1 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.00 | .66 |
| 400 V.D.C. Working | | | | |
| 2104-.005 | .005 | $\frac{1}{2} \times 1\frac{5}{8}$ | .90 | .54 |
| 2104-.01 | .01 | $\frac{1}{2} \times 1\frac{5}{8}$ | .90 | .54 |
| 2104-.05 | .05 | $\frac{3}{4} \times 1\frac{5}{8}$ | .95 | .57 |
| 600 V.D.C. Working | | | | |
| 2106-.005 | .005 | $\frac{1}{2} \times 1\frac{5}{8}$ | .95 | .57 |
| 2106-.01 | .01 | $\frac{1}{2} \times 1\frac{5}{8}$ | .95 | .57 |
| 2106-.05 | .05 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.10 | .66 |
| 2106-1 | .1 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.25 | .75 |
| 2106-.5 | .5 | $1\frac{1}{8} \times 2\frac{1}{8}$ | 2.20 | 1.32 |
| 1000 V.D.C. Working | | | | |
| 2110-.0005 | .0005 | $\frac{1}{2} \times 1\frac{5}{8}$ | 1.10 | .66 |
| 2110-.005 | .005 | $\frac{1}{2} \times 1\frac{5}{8}$ | 1.10 | .66 |
| 2110-.01 | .01 | $\frac{1}{2} \times 1\frac{5}{8}$ | 1.10 | .66 |
| 2110-.05 | .05 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.30 | .78 |
| 2110-1 | .1 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.50 | .90 |
| 1600 V.D.C. Working | | | | |
| 2116-.003 | .003 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.20 | .72 |
| 2116-.006 | .006 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.20 | .72 |
| 2116-.01 | .01 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.20 | .72 |
| 2116-.02 | .02 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.30 | .78 |
| 2116-.05 | .05 | $\frac{3}{4} \times 1\frac{5}{8}$ | 1.30 | .78 |
| 2116-1 | .1 | $1\frac{1}{8} \times 2\frac{1}{8}$ | 2.10 | 1.26 |

Inquiries should be directed to the factory for capacities and voltages other than those listed above.

Prices subject to change without notice.

TYPES 50 AND 59 BYPASS PAPER CAPACITORS



TYPES 50 AND 59

Types 50 and 59 paper capacitors are non-inductively wound paper dielectric sections sealed in seamless containers. Primarily intended for bypass applications, their characteristics are excellent for R.F. and A.F. bypass, audio frequency coupling and A.C. circuits. The Type 50 capacitors are vacuum impregnated and filled with the finest mineral oil available for use; the Type 59 capacitors are vacuum impregnated and filled with diaclor; a chlorinated dielectric providing maximum capacity and voltage in minimum space.

Types 50 & 59

| Catalog Number | Capacity Mfd. | Size Inches A x B x C | List Price | Net Price |
|------------------------------------|---------------|--|------------|-----------|
| Type 50 600 V.D.C. Working | | | | |
| 5006-.05 | .05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | \$2.60 | \$1.50 |
| 5006-.5 | .5 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 3.00 | 1.80 |
| 5006-1 | 1 | $2 \times 1\frac{1}{4} \times \frac{3}{4}$ | 3.40 | 2.04 |
| 5006-.05x2 | .05-.05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 3.30 | 1.98 |
| 5006-.5x2 | .5-.5 | $2 \times 1\frac{1}{4} \times \frac{3}{4}$ | 3.90 | 2.34 |
| 5006-1x3 | 1-1-1 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 3.80 | 2.28 |
| 5006-.5x3 | .5-.5-.5 | $2 \times 2 \times 1\frac{1}{4}$ | 5.20 | 3.12 |
| Type 50 1000 V.D.C. Working | | | | |
| 5010-.05 | .05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 2.75 | 1.65 |
| 5010-1 | 1 | $2 \times 2 \times 1\frac{1}{4}$ | 4.00 | 2.40 |
| 5010-.05x2 | .05-.05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 3.50 | 2.10 |
| 5010-.5x2 | .5-.5 | $2 \times 2 \times 1\frac{1}{4}$ | 4.95 | 2.97 |
| 5010-.25x3 | .25-.25-.25 | $2 \times 2 \times 1\frac{1}{4}$ | 5.00 | 3.00 |
| Type 59 600 V.D.C. Working | | | | |
| 5906-.05 | .05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 2.60 | 1.50 |
| 5906-1 | 1 | $2 \times 1\frac{1}{4} \times \frac{3}{4}$ | 3.40 | 2.04 |
| 5906-2 | 2 | $2 \times 2 \times 1\frac{1}{4}$ | 4.55 | 2.73 |
| 5906-.05x2 | .05-.05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 3.30 | 1.98 |
| 5906-1x2 | 1-1 | $2 \times 2 \times 1\frac{1}{4}$ | 4.80 | 2.88 |
| 5906-1x3 | 1-1-1 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 3.80 | 2.28 |
| 5906-.5x3 | .5-.5-.5 | $2 \times 2 \times 1\frac{1}{4}$ | 5.20 | 3.12 |
| Type 59 1000 V.D.C. Working | | | | |
| 5910-.05 | .05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 2.75 | 1.65 |
| 5910-1 | 1 | $2 \times 2 \times 1\frac{1}{4}$ | 4.00 | 2.40 |
| 5910-.05x2 | .05-.05 | $1\frac{1}{8} \times 1 \times \frac{3}{4}$ | 3.50 | 2.10 |
| 5910-.5x2 | .5-.5 | $2 \times 2 \times 1\frac{1}{4}$ | 4.95 | 2.97 |
| 5910-.25x3 | .25-.25-.25 | $2 \times 2 \times 1\frac{1}{4}$ | 5.00 | 3.00 |

Standard tolerance +20% -10%. Types 50 and 59 standard capacitors supplied with side terminals or to customer spec. When ordering non-standard terminals specify design, R—Rivet, S—Screw; specify position, T—Top, B—Bottom, E—End.

Inquiries should be directed to the factory for capacities and voltages other than those listed above.

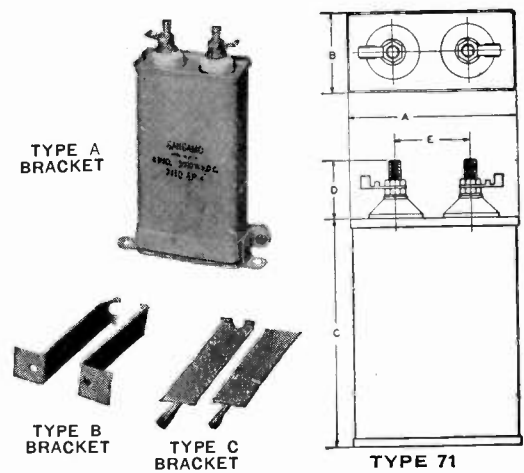
Prices subject to change without notice.

SANGAMO CAPACITORS

TYPE 71 DIACLOR IMPREGNATED TRANSMITTING CAPACITORS

Sangamo Diaclor impregnated capacitors have the advantage of longer life, lighter weight, and smaller size. Diaclor is a specially compounded, chemically purified chlorinated liquid dielectric. This synthetic impregnant, whose characteristics can be controlled with great uniformity, assures a high dielectric constant, high volume resistivity, low power factor, high dielectric strength, and is non-inflammable and non-explosive.

Type 71 Diaclor impregnated capacitors are supplied with Type A universal bracket, Type B footed bracket, or Type C spade lug bracket. Mounting dimensions of these brackets are given from center to center, in inches, in column "F" below. Terminals: composition rivet or screw; pyrex glass; or, stand-off porcelain. Prices include choice of brackets and terminals.



| Catalog Number | Capacity Mfd. | Dimensions — Inches | | | F | List Price | Net Price | | |
|----------------------------|---------------|---------------------|-------|-------|-----|------------|-----------|--------|--------|
| | | A | B | C | D | E | | | |
| 600 V.D.C. Working | | | | | | | | | |
| 7106-.5 | .5 | 1 1/8 | 1 1/8 | 1 3/8 | 7/8 | 1 1/8 | 2 1/4 | \$4.25 | \$2.55 |
| 7106-1 | 1. | 1 1/8 | 1 1/8 | 2 | 7/8 | 1 1/8 | 2 1/4 | 5.25 | 3.15 |
| 7106-2 | 2. | 1 1/8 | 1 1/8 | 2 3/8 | 7/8 | 1 1/8 | 2 1/4 | 6.50 | 3.90 |
| 7106-4 | 4. | 2 1/2 | 1 3/8 | 2 7/8 | 7/8 | 1 1/4 | 3 | 8.25 | 4.95 |
| 7106-6 | 6. | 2 1/2 | 1 3/8 | 3 1/4 | 7/8 | 1 1/8 | 3 | 10.25 | 6.15 |
| 7106-8 | 8. | 3 3/4 | 1 1/4 | 3 1/4 | 7/8 | 2 | 4 3/8 | 12.25 | 7.35 |
| 7106-10 | 10. | 3 3/4 | 1 1/4 | 3 3/4 | 7/8 | 2 | 4 3/8 | 13.75 | 8.25 |
| 7106-12 | 12. | 3 3/4 | 1 1/4 | 4 1/4 | 7/8 | 2 | 4 3/8 | 15.50 | 9.30 |
| 1000 V.D.C. Working | | | | | | | | | |
| 7110-.1 | .1 | 1 1/8 | 1 1/8 | 1 3/8 | 7/8 | 1 1/8 | 2 1/4 | 3.75 | 2.25 |
| 7110-.25 | .25 | 1 1/8 | 1 1/8 | 1 3/8 | 7/8 | 1 1/8 | 2 1/4 | 4.25 | 2.55 |
| 7110-.5 | .5 | 1 1/8 | 1 1/8 | 2 | 7/8 | 1 1/8 | 2 1/4 | 4.50 | 2.70 |
| 7110-1 | 1. | 1 1/8 | 1 1/8 | 2 1/2 | 7/8 | 1 1/8 | 2 1/4 | 5.75 | 3.45 |
| 7110-2 | 2. | 1 1/8 | 1 1/8 | 3 1/8 | 7/8 | 1 1/8 | 2 1/4 | 7.50 | 4.50 |
| 7110-4 | 4. | 2 1/2 | 1 3/8 | 4 1/8 | 7/8 | 1 1/4 | 3 | 9.50 | 5.70 |
| 7110-6 | 6. | 3 3/4 | 1 1/4 | 3 3/8 | 7/8 | 2 | 4 3/8 | 12.75 | 7.65 |
| 7110-8 | 8. | 3 3/4 | 1 1/4 | 4 3/8 | 7/8 | 2 | 4 3/8 | 13.75 | 8.25 |
| 7110-10 | 10. | 3 3/4 | 1 1/4 | 4 3/4 | 7/8 | 2 | 4 3/8 | 15.25 | 9.15 |
| 7110-12 | 12. | 3 3/4 | 1 1/4 | 4 | 7/8 | 2 | 4 3/8 | 16.50 | 9.90 |
| 7110-15 | 15. | 3 3/4 | 1 1/4 | 4 3/4 | 7/8 | 2 | 4 3/8 | 18.25 | 10.95 |
| 1500 V.D.C. Working | | | | | | | | | |
| 7115-.25 | .25 | 1 1/8 | 1 1/8 | 2 | 7/8 | 1 1/8 | 2 1/4 | 5.25 | 3.15 |
| 7115-.5 | .5 | 1 1/8 | 1 1/8 | 2 1/4 | 7/8 | 1 1/8 | 2 1/4 | 5.75 | 3.45 |
| 7115-1 | 1. | 1 1/8 | 1 1/8 | 3 1/4 | 7/8 | 1 1/8 | 2 1/4 | 6.75 | 4.05 |
| 7115-2 | 2. | 2 1/2 | 1 3/8 | 3 3/8 | 7/8 | 1 1/4 | 3 | 9.50 | 5.70 |
| 7115-4 | 4. | 3 3/4 | 1 1/4 | 4 1/4 | 7/8 | 2 | 4 3/8 | 12.75 | 7.65 |
| 7115-6 | 6. | 3 3/4 | 1 1/4 | 4 1/2 | 7/8 | 2 | 4 3/8 | 15.50 | 9.30 |
| 7115-8 | 8. | 3 3/4 | 1 1/4 | 4 3/8 | 7/8 | 2 | 4 3/8 | 19.00 | 11.40 |
| 7115-10 | 10. | 3 3/4 | 1 1/4 | 4 1/4 | 7/8 | 2 | 4 3/8 | 22.75 | 13.65 |
| 7115-12 | 12. | 3 3/4 | 1 1/4 | 5 1/8 | 7/8 | 2 | 4 3/8 | 24.75 | 14.85 |
| 7115-15 | 15. | 3 3/4 | 1 1/4 | 4 1/2 | 7/8 | 2 | 4 3/8 | 27.25 | 16.35 |

Standard tolerance ±10%

| Catalog Number | Capacity Mfd. | Dimensions — Inches | | | F | List Price | Net Price | | |
|----------------------------|---------------|---------------------|-------|-------|-------|------------|-----------|--------|--------|
| | | A | B | C | D | E | | | |
| 2000 V.D.C. Working | | | | | | | | | |
| 7120-.1 | .1 | 1 1/8 | 1 1/8 | 1 3/8 | 7/8 | 1 1/8 | 2 1/4 | \$6.00 | \$3.60 |
| 7120-.25 | .25 | 1 1/8 | 1 1/8 | 2 1/4 | 7/8 | 1 1/8 | 2 1/4 | 6.50 | 3.90 |
| 7120-.5 | .5 | 1 1/8 | 1 1/8 | 2 3/8 | 7/8 | 1 1/8 | 2 1/4 | 6.75 | 4.05 |
| 7120-1 | 1. | 2 1/2 | 1 3/8 | 3 1/4 | 7/8 | 1 1/4 | 3 | 8.25 | 4.95 |
| 7120-2 | 2. | 3 3/4 | 1 1/4 | 3 3/4 | 7/8 | 2 | 4 3/8 | 9.75 | 5.85 |
| 7120-4 | 4. | 3 3/4 | 1 1/4 | 4 3/4 | 7/8 | 2 | 4 3/8 | 13.75 | 8.25 |
| 7120-6 | 6. | 3 3/4 | 1 1/4 | 4 3/4 | 7/8 | 2 | 4 3/8 | 18.25 | 10.95 |
| 7120-8 | 8. | 3 3/4 | 1 1/4 | 5 1/8 | 7/8 | 2 | 4 3/8 | 22.75 | 13.65 |
| 7120-10 | 10. | 3 3/4 | 1 1/4 | 4 3/4 | 7/8 | 2 | 4 3/8 | 27.75 | 16.65 |
| 7120-12 | 12. | 3 3/4 | 1 1/4 | 5 1/4 | 7/8 | 2 | 4 3/8 | 30.25 | 18.15 |
| 7120-15 | 15. | 3 3/4 | 1 1/4 | 6 3/8 | 7/8 | 2 | 4 3/8 | 35.25 | 21.15 |
| 2500 V.D.C. Working | | | | | | | | | |
| 7125-.5 | .5 | 1 1/8 | 1 1/8 | 3 3/8 | 7/8 | 1 1/4 | 2 1/4 | 10.50 | 6.30 |
| 7125-1 | 1. | 2 1/2 | 1 3/8 | 4 1/4 | 7/8 | 1 1/4 | 3 | 12.00 | 7.20 |
| 7125-2 | 2. | 3 3/4 | 1 1/4 | 5 1/8 | 7/8 | 2 | 4 3/8 | 19.50 | 11.70 |
| 7125-4 | 4. | 3 3/4 | 1 1/4 | 5 1/8 | 7/8 | 2 | 4 3/8 | 27.25 | 16.35 |
| 7125-10 | 10. | 3 3/4 | 1 1/4 | 6 1/2 | 7/8 | 2 | 4 3/8 | 68.25 | 40.95 |
| 3000 V.D.C. Working | | | | | | | | | |
| 7130-.1 | .1 | 2 1/2 | 1 3/8 | 2 | 1 1/4 | 1 1/8 | 3 | 12.75 | 7.65 |
| 7130-.25 | .25 | 2 1/2 | 1 3/8 | 2 7/8 | 1 1/4 | 1 1/8 | 3 | 13.50 | 8.10 |
| 7130-.5 | .5 | 2 1/2 | 1 3/8 | 3 3/4 | 1 1/4 | 1 1/8 | 3 | 15.25 | 9.15 |
| 7130-1 | 1. | 3 3/4 | 1 1/4 | 4 1/4 | 1 1/4 | 2 | 4 3/8 | 18.25 | 10.95 |
| 7130-2 | 2. | 3 3/4 | 1 1/4 | 5 1/4 | 1 1/4 | 2 | 4 3/8 | 22.75 | 13.65 |
| 7130-4 | 4. | 3 3/4 | 1 1/4 | 4 1/4 | 2 | 2 | 4 3/8 | 33.50 | 20.10 |
| 4000 V.D.C. Working | | | | | | | | | |
| 7140-.1 | .1 | 3 3/4 | 1 1/4 | 3 1/4 | 2 | 2 | 4 3/8 | 22.75 | 13.65 |
| 7140-.25 | .25 | 3 3/4 | 1 1/4 | 3 1/4 | 2 | 2 | 4 3/8 | 24.00 | 14.40 |
| 7140-.5 | .5 | 3 3/4 | 1 1/4 | 3 1/2 | 2 | 2 | 4 3/8 | 27.25 | 16.35 |
| 7140-1 | 1. | 3 3/4 | 1 1/4 | 4 1/2 | 2 | 2 | 4 3/8 | 33.50 | 20.10 |
| 7140-2 | 2. | 3 3/4 | 1 1/4 | 5 1/2 | 2 | 2 | 4 3/8 | 42.50 | 25.50 |
| 7140-4 | 4. | 3 3/4 | 1 1/4 | 7 | 2 | 2 | 4 3/8 | 60.75 | 36.45 |
| 5000 V.D.C. Working | | | | | | | | | |
| 7150-.25 | .25 | 3 3/4 | 1 1/4 | 3 1/4 | 2 | 2 | 4 3/8 | 26.50 | 15.90 |
| 7150-.5 | .5 | 3 3/4 | 1 1/4 | 4 1/2 | 2 | 2 | 4 3/8 | 30.25 | 18.15 |
| 7150-1 | 1. | 3 3/4 | 1 1/4 | 6 | 2 | 2 | 4 3/8 | 38.00 | 22.80 |
| 7150-2 | 2. | 3 3/4 | 1 1/4 | 5 3/4 | 2 | 2 | 4 3/8 | 48.75 | 29.25 |
| 6000 V.D.C. Working | | | | | | | | | |
| 7160-1 | 1. | 3 3/4 | 1 1/4 | 5 | 2 | 2 | 4 3/8 | 76.00 | 45.60 |

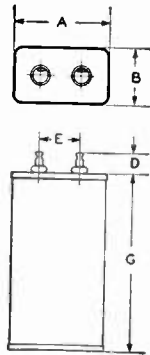
Prices subject to change without notice.

SANGAMO CAPACITORS

TYPE 75 DIACLOR IMPREGNATED A.C. CAPACITOR



TYPE 75



Type 75 Sangamo Diaclor Impregnated Capacitors are designed for continuous A.C. duty in ambient temperatures up to 75 degrees centigrade. These capacitors are recommended for use with capacitor motors—and as power factor correction capacitors—and other similar A.C. applications. They are supplied with either the composition rivet or screw terminal, or with stand-off porcelain terminal. Type mounting bracket desired should be specified when ordering.

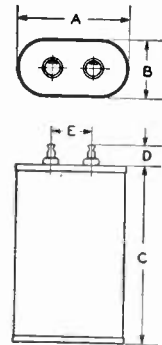
| Catalog Number | Capacity Mfd. | Dimensions — Inches | | | | List Price | Net Price |
|---------------------------|---------------|---------------------|-------|-------|-----|------------|-----------|
| | | A | B | C | D | | |
| 220 V.A.C. Working | | | | | | | |
| 7522-2 | 2. | 1 1/8 | 1 1/8 | 2 3/4 | 7/8 | \$4.25 | \$2.55 |
| 7522-3 | 3. | 1 1/8 | 1 1/8 | 3 1/4 | 7/8 | 4.95 | 2.97 |
| 7522-3.75 | 3.75 | 2 1/2 | 1 1/8 | 2 7/8 | 7/8 | 5.35 | 3.21 |
| 7522-5 | 5. | 2 1/2 | 1 1/8 | 3 1/4 | 7/8 | 6.10 | 3.36 |
| 7522-7.5 | 7.5 | 3 3/4 | 1 1/4 | 3 3/4 | 7/8 | 7.65 | 4.59 |
| 7522-8 | 8. | 3 3/4 | 1 1/4 | 3 3/4 | 7/8 | 8.05 | 4.83 |
| 7522-10 | 10. | 3 3/4 | 1 1/4 | 3 3/4 | 7/8 | 9.20 | 5.52 |
| 7522-12 | 12. | 3 3/4 | 1 1/4 | 3 3/4 | 7/8 | 10.91 | 6.55 |
| 7522-15 | 15. | 3 3/4 | 1 1/4 | 3 3/4 | 7/8 | 12.90 | 7.74 |
| 7522-25 | 25. | 3 3/4 | 3 7/8 | 4 1/8 | 7/8 | 19.65 | 11.79 |
| 330 V.A.C. Working | | | | | | | |
| 7533-2 | 2. | 1 1/8 | 1 1/8 | 3 7/8 | 7/8 | 4.75 | 2.85 |
| 7533-3 | 3. | 1 1/8 | 1 1/8 | 4 3/8 | 7/8 | 5.65 | 3.45 |
| 7533-3.75 | 3.75 | 2 1/2 | 1 1/8 | 3 3/4 | 7/8 | 6.10 | 3.36 |
| 7533-5 | 5. | 2 1/2 | 1 1/8 | 4 5/8 | 7/8 | 6.95 | 4.17 |
| 7533-7.5 | 7.5 | 3 3/4 | 1 1/4 | 4 5/8 | 7/8 | 8.55 | 5.13 |
| 7533-10 | 10. | 3 3/4 | 1 1/4 | 5 1/2 | 7/8 | 10.40 | 6.24 |
| 440 V.A.C. Working | | | | | | | |
| 7544-1 | 1. | 1 1/8 | 1 1/8 | 2 1/2 | 7/8 | 4.95 | 2.97 |
| 7544-2 | 2. | 1 1/8 | 1 1/8 | 3 7/8 | 7/8 | 5.90 | 3.54 |
| 7544-3 | 3. | 2 1/2 | 1 1/8 | 3 1/4 | 7/8 | 6.60 | 3.96 |
| 7544-3.75 | 3.75 | 2 1/2 | 1 1/8 | 3 3/4 | 7/8 | 7.05 | 4.23 |
| 7544-5 | 5. | 3 3/4 | 1 1/4 | 3 1/2 | 7/8 | 8.30 | 4.98 |
| 7544-7.5 | 7.5 | 3 3/4 | 1 1/4 | 3 1/2 | 7/8 | 10.10 | 6.06 |
| 7544-10 | 10. | 3 3/4 | 1 1/4 | 4 1/4 | 7/8 | 12.30 | 6.78 |
| 660 V.A.C. Working | | | | | | | |
| 7566-1 | 1. | 1 1/8 | 1 1/8 | 3 1/4 | 7/8 | 5.30 | 3.18 |
| 7566-2 | 2. | 2 1/2 | 1 1/8 | 3 5/8 | 7/8 | 6.95 | 4.17 |
| 7566-3 | 3. | 3 3/4 | 1 1/4 | 3 1/2 | 7/8 | 7.85 | 4.71 |
| 7566-3.75 | 3.75 | 3 3/4 | 1 3/8 | 3 1/2 | 7/8 | 8.65 | 5.19 |
| 7566-5 | 5. | 3 3/4 | 1 3/4 | 3 7/8 | 7/8 | 10.25 | 6.15 |

Inquiry should be directed to the factory for capacities and voltages other than those listed above. Prices subject to change without notice.

TYPE 80 DIACLOR IMPREGNATED A.C. CAPACITOR



TYPE 80



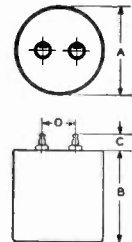
Sangamo Type 80 Diaclor Impregnated capacitors are especially recommended for fluorescent use but can be employed for numerous A.C. applications. These units are designed to operate continuously at 75 degrees centigrade.

| Catalog Number | Capacity Mfd. | Dimensions — Inches | | | | | List Price | Net Price |
|---------------------------|---------------|---------------------|---|-------|-----|---|------------|-----------|
| | | A | B | C | D | E | | |
| 220 V.A.C. Working | | | | | | | | |
| 8022-3.75 | 3.75 | 2 1/2 | 1 | 3 3/8 | 3/4 | 1 | \$4.85 | \$2.91 |
| 8022-4.5 | 4.5 | 2 1/2 | 1 | 4 1/8 | 3/4 | 1 | 5.25 | 3.15 |
| 8022-4.75 | 4.75 | 2 1/2 | 1 | 4 1/8 | 3/4 | 1 | 5.40 | 3.24 |
| 8022-5 | 5. | 2 1/2 | 1 | 4 1/8 | 3/4 | 1 | 5.55 | 3.33 |
| 8022-5.5 | 5.5 | 2 1/2 | 1 | 4 1/8 | 3/4 | 1 | 5.80 | 3.48 |
| 330 V.A.C. Working | | | | | | | | |
| 8033-2 | 2. | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 4.25 | 2.55 |
| 8033-2.5 | 2.5 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 4.50 | 2.70 |
| 8033-2.75 | 2.75 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 4.75 | 2.85 |
| 8033-3. | 3. | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.00 | 3.00 |
| 8033-3.25 | 3.25 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.20 | 3.12 |
| 8033-3.5 | 3.5 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.35 | 3.21 |
| 8033-3.75 | 3.75 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.55 | 3.33 |
| 8033-4. | 4. | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.80 | 3.48 |

TYPE 90 DIACLOR IMPREGNATED A.C. CAPACITOR



TYPE 90



Sangamo Type 90 Diaclor Impregnated capacitors are designed to operate continuously at 75 degrees centigrade in any standard A.C. application. They are particularly adaptable to fluorescent use. Either composition rivet or pyrex glass terminals are available.

| Catalog Number | Capacity Mfd. | Dimensions — Inches | | | | List Price | Net Price | |
|---------------------------|---------------|---------------------|---|-------|-----|------------|-----------|--------|
| | | A | B | C | D | | | |
| 330 V.A.C. Working | | | | | | | | |
| 9033-1.5 | 1.5 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | \$4.00 | \$2.40 |
| 9033-2.5 | 2.5 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 4.50 | 2.70 |
| 9033-2.75 | 2.75 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 4.75 | 2.85 |
| 9033-3. | 3. | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.00 | 3.00 |
| 9033-3.5 | 3.5 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.35 | 3.21 |
| 9033-3.75 | 3.75 | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.55 | 3.33 |
| 9033-4. | 4. | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 5.80 | 3.48 |
| 9033-5 | 5. | 2 1/2 | 1 | 2 3/8 | 3/4 | 1 | 6.55 | 3.93 |

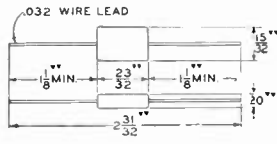
Inquiry should be directed to the factory for capacities and voltages other than those listed above. Prices subject to change without notice.

SANGAMO CAPACITORS

TYPE K Mica Capacitor



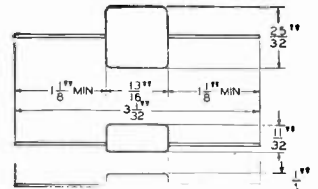
TYPE KR Silvered Mica



TYPE C Mica Capacitor



TYPE CR Silvered Mica



Type K Mica

| Catalog Number | Capacity Mfd. | List Price | Net Price |
|---|---------------|------------|-----------|
| 500 V.D.C. Working— 1000 V.D.C. Test | | | |
| K-1550 | .000005 | \$0.25 | \$0.15 |
| K-1410 | .00001 | .25 | .15 |
| K-1415 | .000015 | .25 | .15 |
| K-1420 | .00002 | .25 | .15 |
| K-1425 | .000025 | .25 | .15 |
| K-1430 | .00003 | .25 | .15 |
| K-1439 | .000039 | .25 | .15 |
| K-1443 | .000043 | .20 | .12 |
| K-1450 | .00005 | .20 | .12 |
| K-1475 | .000075 | .20 | .12 |
| K-1310 | .0001 | .20 | .12 |
| K-1315 | .00015 | .20 | .12 |
| K-1320 | .0002 | .20 | .12 |
| K-1325 | .00025 | .25 | .15 |
| K-1330 | .0003 | .25 | .15 |
| K-1340 | .0004 | .25 | .15 |
| K-1350 | .0005 | .25 | .15 |
| K-1370 | .0007 | .35 | .21 |
| K-1380 | .0008 | .35 | .21 |
| K-1210 | .001 | .35 | .21 |

Type KR Silvered Mica

| Catalog Number | Capacity Mfd. | List Price | Net Price |
|---|---------------|------------|-----------|
| 500 V.D.C. Working— 1000 V.D.C. Test | | | |
| KR-1550 | .000005 | \$0.45 | \$0.27 |
| KR-1410 | .00001 | .40 | .24 |
| KR-1415 | .000015 | .40 | .24 |
| KR-1420 | .00002 | .40 | .24 |
| KR-1425 | .000025 | .40 | .24 |
| KR-1430 | .00003 | .40 | .24 |
| KR-1439 | .000039 | .40 | .24 |
| KR-1443 | .000043 | .40 | .24 |
| KR-1450 | .00005 | .40 | .24 |
| KR-1475 | .000075 | .40 | .24 |
| KR-1310 | .0001 | .40 | .24 |
| KR-1315 | .00015 | .45 | .27 |
| KR-1320 | .0002 | .45 | .27 |
| KR-1325 | .00025 | .45 | .27 |
| KR-1330 | .0003 | .55 | .33 |
| KR-1340 | .0004 | .65 | .39 |
| KR-1350 | .0005 | .70 | .42 |
| KR-1370 | .0007 | .75 | .45 |
| KR-1380 | .0008 | .80 | .48 |
| KR-1210 | .001 | .90 | .54 |

Type C Mica

| Catalog Number | Capacity Mfd. | List Price | Net Price |
|---|---------------|------------|-----------|
| 500 V.D.C. Working— 1000 V.D.C. Test | | | |
| C-1350 | .0005 | \$0.25 | \$0.15 |
| C-1362 | .00062 | .25 | .15 |
| C-1375 | .00075 | .25 | .15 |
| C-1380 | .0008 | .25 | .15 |
| C-1390 | .0009 | .25 | .15 |
| C-1210 | .001 | .30 | .18 |
| C-1215 | .0015 | .30 | .18 |
| C-1220 | .002 | .40 | .24 |
| C-1225 | .0025 | .45 | .27 |
| *C-1230 | .003 | .50 | .30 |
| *C-1240 | .004 | .50 | .30 |
| *C-1250 | .005 | .65 | .39 |
| *C-1260 | .006 | .65 | .39 |
| 300 V.D.C. Working— 600 V.D.C. Test | | | |
| *C-06275 | .0075 | .90 | .54 |
| *C-06280 | .008 | 1.00 | .60 |
| *C-06290 | .009 | 1.00 | .60 |
| *C-06110 | .01 | 1.20 | .72 |

Type CR Silvered Mica

| Catalog Number | Capacity Mfd. | List Price | Net Price |
|---|---------------|------------|-----------|
| 500 V.D.C. Working— 1000 V.D.C. Test | | | |
| CR-1350 | .0005 | \$0.70 | \$0.42 |
| CR-1362 | .00062 | .80 | .48 |
| CR-1375 | .00075 | .85 | .51 |
| CR-1380 | .0008 | .95 | .57 |
| CR-1390 | .0009 | 1.00 | .60 |
| CR-1210 | .001 | 1.10 | .66 |
| CR-1215 | .0015 | 1.35 | .81 |
| CR-1220 | .002 | 1.35 | .81 |
| CR-1225 | .0025 | 1.80 | 1.08 |
| *CR-1230 | .003 | 2.05 | 1.23 |
| *CR-1240 | .004 | 2.15 | 1.29 |
| *CR-1250 | .005 | 2.25 | 1.35 |
| *CR-1260 | .006 | 2.40 | 1.44 |
| 300 V.D.C. Working— 600 V.D.C. Test | | | |
| *CR-06275 | .0075 | 2.45 | 1.47 |
| *CR-06280 | .008 | 2.80 | 1.68 |
| *CR-06290 | .009 | 2.95 | 1.77 |
| *CR-06110 | .01 | 3.20 | 1.92 |

Standard tolerance, $\pm 20\%$, B characteristic.

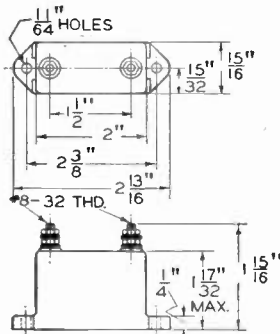
Standard tolerance, $\pm 5\%$, C characteristic.

Standard tolerance, $\pm 20\%$, B characteristic. *Thickness $\frac{1}{16}$ "

Standard tolerance, $\pm 5\%$, C characteristic. *Thickness $\frac{1}{16}$ "

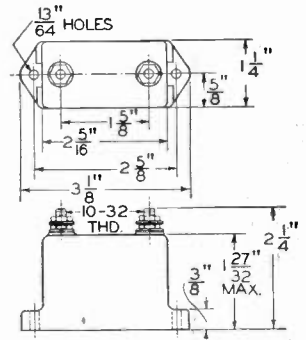
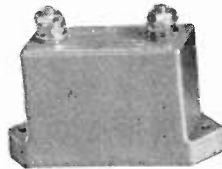
Inquiry should be directed to the factory as to the availability of capacities and voltages other than those listed.

Inquiry should be directed to the factory as to the availability of capacities and voltages other than those listed.



TYPE F1

TYPES F1 AND F2 MICA CAPACITORS



TYPE F2

Types F1 and F2 capacitors, the smallest of the Sangamo line of transmitting types, possess a range of voltage and current ratings suitable for many applications. They are housed in low loss molded bakelite cases. The mica and foil sections are permanently clamped, vacuum impregnated, and installed in the case in such a manner as to provide stable characteristics and adequate moisture proofing.

TYPE F1 MICA CAPACITORS

| Catalog Number | Capacity Mfd. | Test Volts Effective Peak Wkg. | List Price | Net Price |
|----------------|---------------|--------------------------------|------------|-----------|
| F1-331 | .0001 | 3000 | \$10.80 | \$6.48 |
| F1-332 | .0002 | 3000 | 10.80 | 6.48 |
| F1-3325 | .00025 | 3000 | 10.80 | 6.48 |
| F1-335 | .0005 | 3000 | 10.80 | 6.48 |
| F1-321 | .001 | 3000 | 10.80 | 6.48 |
| F1-322 | .002 | 3000 | 10.80 | 6.48 |
| F1-223 | .003 | 2000 | 10.80 | 6.48 |
| F1-224 | .004 | 2000 | 10.80 | 6.48 |
| F1-225 | .005 | 2000 | 10.80 | 6.48 |
| F1-226 | .006 | 2000 | 10.80 | 6.48 |
| F1-1528 | .008 | 1500 | 10.80 | 6.48 |
| F1-111 | .01 | 1000 | 10.80 | 6.48 |
| F1-112 | .02 | 1000 | 11.50 | 6.90 |
| F1-0215 | .05 | 250 | 11.50 | 6.90 |
| F1-0201 | .1 | 250 | 12.00 | 7.20 |

TYPE F2 MICA CAPACITORS

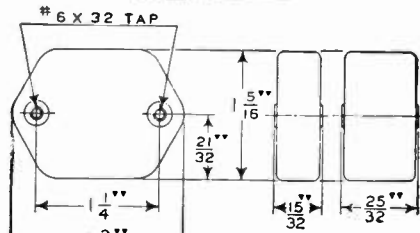
| Catalog Number | Capacity Mfd. | Test Volts Effective Peak Wkg. | List Price | Net Price |
|----------------|---------------|--------------------------------|------------|-----------|
| F2-531 | .0001 | 5000 | \$14.40 | \$8.64 |
| F2-5325 | .00025 | 5000 | 14.40 | 8.64 |
| F2-535 | .0005 | 5000 | 14.40 | 8.64 |
| F2-536 | .0006 | 5000 | 14.40 | 8.64 |
| F2-521 | .001 | 5000 | 14.40 | 8.64 |
| F2-522 | .002 | 5000 | 14.40 | 8.64 |
| F2-523 | .003 | 5000 | 16.00 | 9.60 |
| F2-325 | .005 | 3000 | 14.40 | 8.64 |
| F2-326 | .006 | 3000 | 14.40 | 8.64 |
| F2-211 | .01 | 2000 | 14.40 | 8.64 |
| F2-212 | .02 | 2000 | 16.00 | 9.60 |
| F2-1515 | .05 | 1500 | 14.50 | 8.70 |
| F2-0501 | .1 | 500 | 16.50 | 9.90 |
| F2-0202 | .2 | 250 | 22.00 | 13.50 |
| F2-02025 | .25 | 250 | 24.00 | 14.40 |

Standard tolerance $\pm 5\%$, B characteristic.

Inquiry should be directed to the factory for availability of capacities and voltages other than those listed above. Prices subject to change without notice.

SANGAMO CAPACITORS

TYPE A MICA CAPACITORS



TYPE A THIN AND THICK

| Catalog Number | Capacity Mfd. | List Price | Net Price |
|--|---------------|------------|-----------|
| 600 V.D.C. Working — 1200 V.D.C. Test | | | |
| A-1450 | .00005 | \$0.85 | \$0.51 |
| A-1310 | .0001 | .85 | .51 |
| A-1320 | .0002 | .85 | .51 |
| A-1350 | .0005 | .85 | .51 |
| A-1210 | .001 | .85 | .51 |
| A-1220 | .002 | .90 | .54 |
| A-1230 | .003 | 1.20 | .72 |
| A-1250 | .005 | 1.20 | .72 |
| A-1110 | .01 | 1.95 | 1.17 |
| A-1115 | .015 | 2.25 | 1.35 |
| A-1120 | .02 | 2.60 | 1.56 |
| *A-1125 | .025 | 3.20 | 1.92 |
| *A-1130 | .03 | 3.45 | 2.07 |
| *A-1150 | .05 | 5.35 | 3.21 |

1200 V.D.C. Working — 2500 V.D.C. Test

| | | | |
|---------|--------|------|------|
| A-2450 | .00005 | 1.00 | .60 |
| A-2310 | .0001 | 1.00 | .60 |
| A-2320 | .0002 | 1.00 | .60 |
| A-2350 | .0005 | 1.00 | .60 |
| A-2210 | .001 | 1.25 | .75 |
| A-2220 | .002 | 1.90 | 1.14 |
| A-2230 | .003 | 2.20 | 1.32 |
| A-2250 | .005 | 2.40 | 1.44 |
| A-2110 | .01 | 3.90 | 2.34 |
| *A-2115 | .015 | 4.65 | 2.79 |
| *A-2120 | .02 | 5.45 | 3.21 |
| *A-2130 | .03 | 6.40 | 3.84 |

2500 V.D.C. Working — 5000 V.D.C. Test

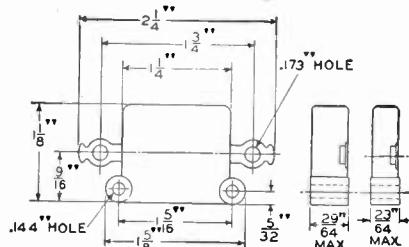
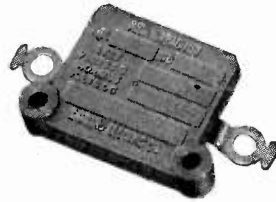
| | | | |
|---------|--------|------|------|
| A-5450 | .00005 | 1.25 | .75 |
| A-5310 | .0001 | 1.25 | .75 |
| A-5320 | .0002 | 1.40 | .84 |
| A-5350 | .0005 | 1.70 | 1.02 |
| A-5210 | .001 | 2.05 | 1.23 |
| A-5215 | .0015 | 2.60 | 1.56 |
| A-5220 | .002 | 3.10 | 1.86 |
| A-5230 | .003 | 3.80 | 2.28 |
| A-5250 | .005 | 4.70 | 2.82 |
| *A-5110 | .01 | 5.70 | 3.42 |
| *A-5115 | .015 | 6.20 | 3.72 |

*Thickness 25/32" — Standard Insulators are available if desired. If .144" clearance holes are required, designate by adding letter "A" to Type No. (AA).

Standard tolerance $\pm 10\%$, B Characteristic, unless otherwise specified.

Inquiry should be directed to the factory as to the availability of capacities and voltages other than those listed above.

TYPE H MICA CAPACITORS



TYPE H THICK AND THIN

| Catalog Number | Capacity Mfd. | List Price | Net Price |
|--|---------------|------------|-----------|
| 600 V.D.C. Working — 1200 V.D.C. Test | | | |
| H-1450 | .00005 | \$0.70 | \$0.42 |
| H-1310 | .0001 | .70 | .42 |
| H-1320 | .0002 | .70 | .42 |
| H-1350 | .0005 | .70 | .42 |
| H-1210 | .001 | .70 | .42 |
| H-1220 | .002 | .80 | .48 |
| H-1230 | .003 | 1.00 | .60 |
| H-1250 | .005 | 1.00 | .60 |
| H-1110 | .01 | 1.60 | .96 |
| *H-1115 | .015 | 1.80 | 1.08 |
| *H-1120 | .02 | 2.20 | 1.32 |
| *H-1125 | .025 | 2.65 | 1.59 |
| *H-1130 | .03 | 2.95 | 1.77 |

1200 V.D.C. Working — 2500 V.D.C. Test

| | | | |
|---------|--------|------|------|
| H-2450 | .00005 | 1.00 | .60 |
| H-2310 | .0001 | 1.00 | .60 |
| H-2320 | .0002 | 1.00 | .60 |
| H-2350 | .0005 | 1.00 | .60 |
| H-2210 | .001 | 1.25 | .75 |
| H-2220 | .002 | 1.90 | 1.14 |
| H-2230 | .003 | 2.10 | 1.26 |
| *H-2250 | .005 | 2.40 | 1.44 |
| *H-2110 | .01 | 3.90 | 2.34 |

2500 V.D.C. Working — 5000 V.D.C. Test

| | | | |
|---------|--------|------|------|
| H-5450 | .00005 | 1.25 | .75 |
| H-5310 | .0001 | 1.25 | .75 |
| H-5320 | .0002 | 1.40 | .84 |
| H-5350 | .0005 | 1.70 | 1.02 |
| H-5210 | .001 | 2.05 | 1.23 |
| H-5215 | .0015 | 2.70 | 1.62 |
| H-5220 | .002 | 3.10 | 1.86 |
| *H-5230 | .003 | 3.80 | 2.28 |
| *H-5250 | .005 | 4.70 | 2.82 |

*Thickness 29/64". For meter mounting bracket add letter "E" to Type designation; if assembled add 30 cents to list price; if unassembled add 20 cents and specify case size.

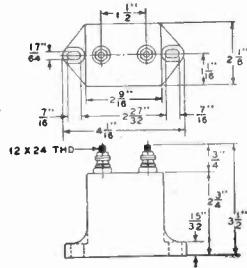
Standard tolerance $\pm 10\%$, B Characteristic, unless otherwise specified.

Inquiry should be directed to the factory as to the availability of capacities and voltages other than those listed above.

Prices subject to change without notice.

SANGAMO CAPACITORS

TYPE E MICA CAPACITORS



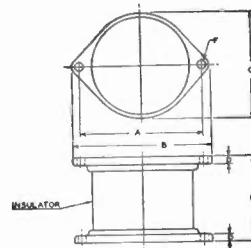
TYPE E

| Catalog Number | Capacity Mfd. | Test Volts D.C. | List Price | Net Price |
|----------------|---------------|-----------------|------------|-----------|
| E-1245 | .00005 | 12500 | \$8.00 | \$4.80 |
| E-1231 | .0001 | 12500 | 8.00 | 4.80 |
| E-1235 | .0005 | 12500 | 8.00 | 4.80 |
| E-721 | .001 | 7000 | 7.25 | 4.35 |
| E-1221 | .001 | 12500 | 8.00 | 4.80 |
| E-722 | .002 | 7000 | 9.50 | 5.70 |
| E-1222 | .002 | 12500 | 11.00 | 6.60 |
| E-723 | .003 | 7000 | 10.40 | 6.24 |
| E-1023 | .003 | 10000 | 13.60 | 8.16 |
| E-3525 | .005 | 3500 | 10.50 | 6.30 |
| E-1025 | .005 | 10000 | 14.50 | 8.70 |
| E-3511 | .01 | 3500 | 16.00 | 9.60 |
| E-711 | .01 | 7000 | 16.75 | 10.05 |
| E-215 | .05 | 2000 | 16.50 | 9.90 |
| E-3515 | .05 | 3500 | 18.50 | 11.10 |
| E-201 | .1 | 2000 | 18.50 | 11.10 |

Standard tolerance $\pm 20\%$.

This type capacitor specifically designed for amateur transmitters. It is not recommended for commercial applications.

TYPES G1, G2, G3 AND G4 MICA CAPACITORS



TYPE G1, 2, 3 and 4

TYPE G1

| Catalog Number | Capacity Mfd. | Test Volts Effective Peak Wkg. | List Price | Net Price |
|----------------|---------------|--------------------------------|------------|-----------|
| G1-641 | .00001 | 6000 | \$28.30 | \$16.98 |
| G1-645 | .00005 | 6000 | 30.50 | 18.30 |
| G1-631 | .0001 | 6000 | 32.10 | 19.26 |
| G1-635 | .0005 | 6000 | 37.00 | 22.20 |
| G1-621 | .001 | 6000 | 37.00 | 22.20 |
| G1-622 | .002 | 6000 | 39.00 | 23.40 |
| G1-624 | .004 | 6000 | 40.10 | 24.06 |
| G1-625 | .005 | 6000 | 41.00 | 24.60 |
| G1-511 | .01 | 5000 | 41.00 | 24.60 |
| G1-312 | .02 | 3000 | 41.00 | 24.60 |

TYPE G2

| Catalog Number | Capacity Mfd. | Test Volts Effective Peak Wkg. | List Price | Net Price |
|----------------|---------------|--------------------------------|------------|-----------|
| G2-1031 | .00.1 | 10000 | \$52.00 | \$31.20 |
| G2-1032 | .0002 | 10000 | 52.00 | 31.20 |
| G2-10325 | .00025 | 10000 | 52.00 | 31.20 |
| G2-1035 | .0005 | 10000 | 52.00 | 31.20 |
| G2-1021 | .001 | 10000 | 52.00 | 31.20 |
| G2-10215 | .0015 | 10000 | 52.00 | 31.20 |
| G2-1022 | .002 | 10000 | 52.00 | 31.20 |
| G2-824 | .004 | 8000 | 52.00 | 31.20 |
| G2-525 | .005 | 5000 | 52.00 | 31.20 |
| G2-511 | .01 | 5000 | 55.00 | 33.00 |

Type G ceramic cased capacitors are intended for service where highest voltage and R.F. current ratings are required, such as in commercial transmitting or induction heating applications. All possible steps are taken in design and manufacturing operations to insure permanence of quality. Current ratings of these four sizes as well as detailed information on the Type G5 will be supplied upon request. Terminal plates are designed to permit any usual connecting or mounting practices.

TYPE G3

| Catalog Number | Capacity Mfd. | Test Volts Effective Peak Wkg. | List Price | Net Price |
|----------------|---------------|--------------------------------|------------|-----------|
| G3-2031 | .0001 | 20000 | \$85.00 | \$51.00 |
| G3-2032 | .0002 | 20000 | 90.00 | 54.00 |
| G3-2035 | .0005 | 20000 | 90.00 | 54.00 |
| G3-2021 | .001 | 20000 | 90.00 | 54.00 |
| G3-15215 | .0015 | 15000 | 90.00 | 54.00 |
| G3-1522 | .002 | 15000 | 93.50 | 56.10 |
| G3-1025 | .005 | 10000 | 98.50 | 59.10 |
| G3-1011 | .01 | 10000 | 109.50 | 65.70 |
| G3-512 | .02 | 5000 | 104.00 | 62.40 |
| G3-313 | .03 | 3000 | 93.00 | 55.80 |

TYPE G4

| Catalog Number | Capacity Mfd. | Test Volts Effective Peak Wkg. | List Price | Net Price |
|----------------|---------------|--------------------------------|------------|-----------|
| G4-3031 | .0001 | 30000 | \$134.50 | \$80.70 |
| G4-3032 | .0002 | 30000 | 152.00 | 91.20 |
| G4-3035 | .0005 | 30000 | 152.00 | 91.20 |
| G4-3021 | .001 | 30000 | 157.00 | 94.20 |
| G4-25215 | .0015 | 25000 | 134.50 | 80.70 |
| G4-2022 | .002 | 20000 | 134.50 | 80.70 |
| G4-2024 | .004 | 20000 | 139.50 | 83.70 |
| G4-1525 | .005 | 15000 | 147.50 | 88.50 |
| G4-1526 | .006 | 15000 | 155.00 | 93.00 |
| G4-1011 | .01 | 10000 | 161.00 | 96.60 |

Standard tolerance $\pm 5\%$, B characteristic.

TYPE G MICA CAPACITOR DIMENSIONS — INCHES

| Type | A | B | C | D | E | F |
|------|-------|-------|-------|-----|-------|-------|
| G1 | 3 1/4 | 3 1/8 | 2 1/8 | 1/4 | 2 1/2 | 1 1/4 |
| G2 | 4 1/4 | 5 | 3 1/2 | 1/4 | 3 | 3/2 |
| G3 | 5 3/4 | 6 1/2 | 5 | 3/8 | 4 | .377 |
| G4 | 5 3/4 | 6 1/2 | 5 | 3/8 | 5 3/4 | .377 |

Inquiry as to the availability of capacities and voltages other than those listed above should be directed to the factory.

Prices subject to change without notice.

Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER

INDUSTRIAL

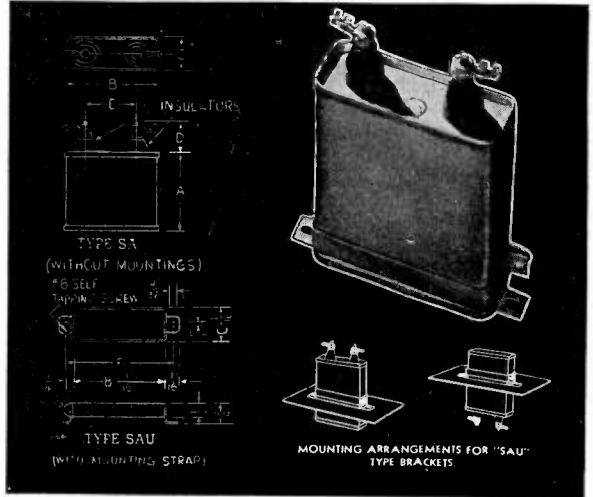


CONDENSER

TYPE "SA" OIL FILLED

1. INCCO OIL "A" IMPREGNATED AND FILLED—permitting efficient operation over widest range of temperatures.
2. HERMETICALLY SEALED CASE—is unaffected by time, humidity, or operating temperatures.
3. Use of HIGHEST GRADE CONDENSER TISSUES insures a long uninterrupted life.
4. HIGH-GLAZE PORCELAIN INSULATORS—insure low moisture absorption and high terminal to case flash over.
5. CONSERVATIVELY RATED—SAFE FOR CONTINUOUS OPERATION AT 10 PER CENT OVERLOAD.
6. Use of "SPACE SAVER" UNIVERSAL MOUNTING BRACKET provides adjustable capacitor heights.
7. LEAD COATED STEEL CASE—IS NON-CORROSIVE and lacquer finished.
8. TESTED FOUR TIMES BEFORE SHIPMENT—guarantees a 100 per cent perfect product electrically and mechanically.

If riveted terminal construction is wanted in place of porcelain stand-off insulators add "R" to catalog number. For example, 6SA50 changes to 6SAR50. Submersion proof terminal construction to meet Army and Navy Specifications is optional; specify on order. Standard capacity tolerance plus or minus 10 per cent. Mounting brackets supplied in accordance with following catalog designations: TYPE SA—No mounting brackets. TYPE SAU—"Space Saver" universal bracket. TYPE SAJ—Soldered vertical mounting bracket. TYPE SAL—Reversible mounting foot bracket. TYPE SAH—Re-



versible spade bolt bracket. For example: The 8mfd. 600V. type with "Space Saver" bracket has catalog number 6SAU800.

NOTE: To facilitate delivery we have standardized on container heights. In many cases units can be supplied in shorter containers if required.

| 600 V.D.C. WORKING | | | | | | | | | | |
|---------------------|-----------|----------------------|-------|-------|-----|-------|-------|-------|--------|------------|
| Cat. No. | Cap. Mfd. | Dimensions in Inches | | | | | | | | List Price |
| | | A | B | C | D | E | F | H | | |
| 6SA50 | .5 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | \$3.61 | |
| 6SA100 | 1.0 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 4.46 | |
| 6SA200 | 2.0 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 5.53 | |
| 6SA400 | 4.0 | 4 1/8 | 2 1/2 | 1 1/8 | 7/8 | 1 1/8 | 3 | 3 | 7.01 | |
| 6SA600 | 6.0 | 4 3/4 | 2 1/2 | 1 1/8 | 7/8 | 1 1/8 | 3 | 3 | 8.71 | |
| 6SA800 | 8.0 | 4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 10.41 | |
| 6SA1000 | 10.0 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 11.69 | |
| 1000 V.D.C. WORKING | | | | | | | | | | |
| 10SA10 | .1 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 3.19 | |
| 10SA25 | .25 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 3.61 | |
| 10SA50 | .5 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 3.83 | |
| 10SA100 | 1.0 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 4.89 | |
| 10SA200 | 2.0 | 4 | 2 1/2 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 6.38 | |
| 10SA400 | 4.0 | 4 3/4 | 2 1/2 | 1 1/8 | 7/8 | 1 1/8 | 3 | 3 | 8.08 | |
| 10SA600 | 6.0 | 4 1/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 10.84 | |
| 10SA800 | 8.0 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 11.69 | |
| 10SA1000 | 10.0 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 12.96 | |
| 1500 V.D.C. WORKING | | | | | | | | | | |
| 15SA50 | .5 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 4.89 | |
| 15SA100 | 1.0 | 4 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 5.74 | |
| 15SA200 | 2.0 | 4 1/8 | 2 1/2 | 1 1/8 | 7/8 | 1 1/8 | 3 | 3 | 8.08 | |
| 15SA400 | 4.0 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 10.84 | |
| 15SA600 | 6.0 | 4 3/4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 13.18 | |
| 2000 V.D.C. WORKING | | | | | | | | | | |
| 20SA10 | .1 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 5.10 | |
| 20SA25 | .25 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 5.53 | |

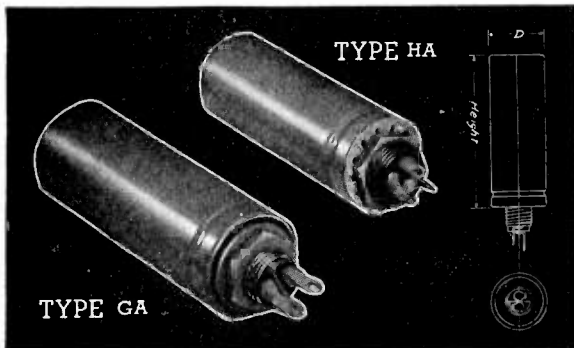
| 2000 V.D.C. WORKING | | | | | | | | | | |
|---------------------|-----------|----------------------|-------|-------|-------|-------|-------|-------|--------|------------|
| Cat. No. | Cap. Mfd. | Dimensions in Inches | | | | | | | | List Price |
| | | A | B | C | D | E | F | H | | |
| 20SA50 | .5 | 2 7/8 | 1 1/8 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | \$5.74 | |
| 20SA100 | 1.0 | 4 1/8 | 2 1/2 | 1 1/8 | 7/8 | 3/4 | 2 1/4 | 2 1/4 | 7.01 | |
| 20SA200 | 2.0 | 4 | 3 3/4 | 1 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 8.29 | |
| 20SA400 | 4.0 | 4 1/4 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 11.69 | |
| 20SA600 | 6.0 | 4 3/4 | 3 3/4 | 2 1/4 | 7/8 | 2 | 4 3/8 | 4 3/8 | 15.51 | |
| 25SA50 | .5 | 4 | 3 3/4 | 1 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 8.93 | |
| 25SA100 | 1.0 | 3 3/4 | 3 3/4 | 1 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 10.20 | |
| 25SA200 | 2.0 | 4 3/4 | 3 3/4 | 1 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 16.58 | |
| 25SA400 | 4.0 | 4 3/4 | 3 3/4 | 1 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 23.16 | |
| 3000 V.D.C. WORKING | | | | | | | | | | |
| 30SA10 | .1 | 2 7/8 | 2 1/2 | 1 1/8 | 1 1/4 | 1 1/8 | 3 | 3 | 10.84 | |
| 30SA25 | .25 | 3 3/8 | 2 1/2 | 1 1/8 | 1 1/4 | 1 1/8 | 3 | 3 | 11.48 | |
| 30SA50 | .5 | 4 1/8 | 2 1/2 | 1 1/8 | 1 1/4 | 1 1/8 | 3 | 3 | 12.96 | |
| 30SA100 | 1.0 | 4 1/4 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 15.51 | |
| 30SA200 | 2.0 | 4 3/4 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 19.34 | |
| 4000 V.D.C. WORKING | | | | | | | | | | |
| 40SA10 | .1 | 2 3/4 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 19.34 | |
| 40SA25 | .25 | 2 3/4 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 20.40 | |
| 40SA50 | .5 | 4 1/4 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 23.16 | |
| 40SA100 | 1.0 | 5 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 28.48 | |
| 5000 V.D.C. WORKING | | | | | | | | | | |
| 50SA50 | .5 | 4 1/4 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 25.71 | |
| 50SA100 | 1.0 | 4 1/4 | 3 3/4 | 2 1/4 | 1 1/4 | 2 | 4 3/8 | 4 3/8 | 32.30 | |
| 6000 V.D.C. WORKING | | | | | | | | | | |
| 60SA50 | .5 | 7 | 3 3/4 | 3 3/4 | 2 1/4 | 1 1/4 | 4 3/8 | 4 3/8 | 51.64 | |
| 60SA100 | 1.0 | 6 1/2 | 3 3/4 | 4 1/8 | 2 1/4 | 2 | 4 3/8 | 4 3/8 | 64.60 | |

* Where G dimension is given, two spade lugs or mounting holes are supplied on each bracket.

TYPES "GA" and "HA" OIL FILLED

These inverted mounting capacitors fill a definite need where chassis space is the prime factor.

* Types "GA" and "HA" are INCCO Oil "A" impregnated and filled.



The case is a one-piece metal extrusion with a "locked-in" molded neck. This construction meets and surpasses the Army and Navy requirements for a submersion-proof capacitor.

Type "GA" is available in the seven standard rating listed below, but can also be supplied in other capacities and/or voltages to manufacturers' specifications.

In the standard "GA" and "HA" types the container is insulated. A grounding lug can be supplied for connecting one terminal to the case. Fiber washer for insulating container from chassis, when case is grounded, and insulating cover for insulating the container from adjacent equipment, can also be supplied on special order.

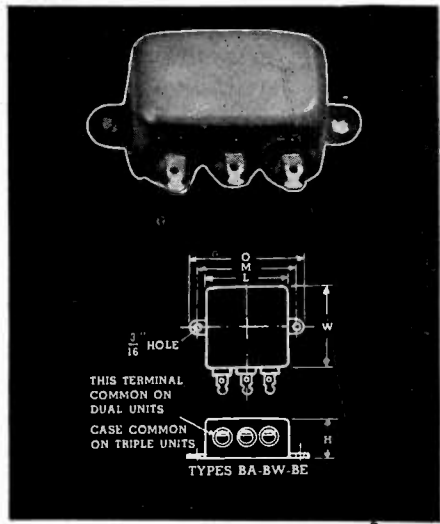
Type "HA" differs from "GA" in container and mounting neck size, and also in the fact that it has three insulated terminals. Primarily, type "HA" is supplied to manufacturers' specifications, to meet special requirements of multiple-section and multiple-terminal capacitors, with either insulated or grounded container.

| Cat. No. | Cap. Mfd. | Voltage D.C. | Height | Case | | List Price |
|----------|-----------|--------------|--------|----------|------------------|------------|
| | | | | Diameter | Neck | |
| | | Working | | | | |
| 6GA200 | 2 | 600 | 3" | 1 1/2" | 3/4" x 16 thread | \$4.15 |
| 6GA300 | 3 | 600 | 4 1/4" | 1 3/8" | 7/8" x 16 thread | 4.95 |
| 6GA400 | 4 | 600 | 4 1/4" | | | 5.70 |
| 10GA100 | 1 | 1000 | 3" | | | 3.80 |
| 10GA200 | 2 | 1000 | 4 1/4" | | | 4.95 |
| 15GA50 | .5 | 1500 | 3" | | | 4.55 |
| 15GA100 | 1 | 1500 | 4 1/4" | | | 4.95 |

INDUSTRIAL

INDUSTRIAL CONDENSER CORPORATION

CONDENSER



DRY ELECTROLYTICS

Type "B" electrolytic capacitor is the first commercially available unit of this type with the reliability of the total submersion type, oil filled capacitors.

Wound with the highest purity aluminum foil and cellulose separators available; impregnated in electrolyte having excellent temperature characteristics, these units will outlive their associated equipment.

| Cat. No. | Cap. in Mfds. Volts | | Dimen. in Inches | | | | List Price |
|----------|---------------------|----|------------------|---|-------|--------|------------|
| | L | W | H | M | | | |
| 52BE10 | 10 | 25 | 1 1/8 | 1 | 2 1/8 | \$2.70 | |
| 52BE25 | 25 | 25 | 1 1/8 | 1 | 2 1/8 | 2.70 | |
| 52BE50 | 50 | 25 | 1 1/8 | 1 | 2 1/8 | 2.80 | |
| 05BE10 | 10 | 50 | 1 1/8 | 1 | 2 1/8 | 2.75 | |
| 05BE25 | 25 | 50 | 1 1/8 | 1 | 2 1/8 | 2.75 | |
| 05BE50 | 50 | 50 | 1 1/8 | 1 | 2 1/8 | 3.00 | |

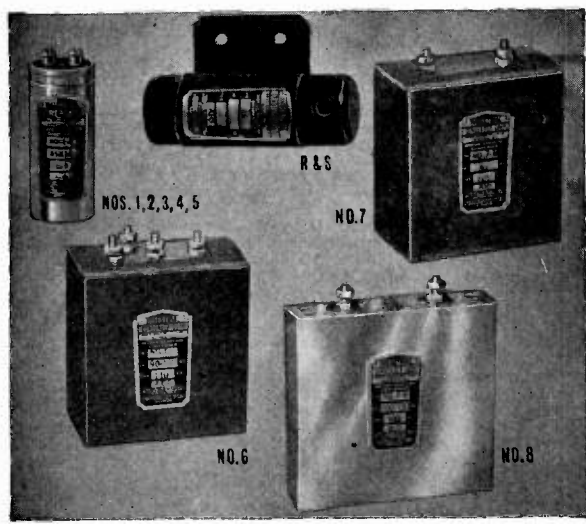
NOTICE—Most units are available with TERMINALS ON TOP, BOTTOM, OR ENDS. When ordering, add "T" for top terminals, "B" for terminals on bottom, or "E" for end terminals, i.e., 6BA1100 for terminals on top. Type "B" also available in WAX FILLED. When ordering, change catalog number A to W, i.e., 6BW100. If terminal position is not designated, side terminals are furnished. STANDARD CAPACITY tolerance of plus 20 per cent minus 10 per cent furnished on oil filled and wax filled units unless otherwise specified when ordering. Can be furnished in plus or minus 1 per cent capacity tolerance on special request.

Built to U. S. Signal Corps and Navy Specifications TYPE "BA" OIL FILLED

1. INCCO OIL "A" permits efficient operation of these compact units over the widest range of temperature.
2. The use of the HIGHEST GRADE CONDENSER TISSUE insures greater safety factor and longer life.
3. Specially PROCESSED RIVETED TERMINALS are designed to withstand total submersion in salt water and changes in temperature from 50° below zero Centigrade to 90° above zero Centigrade without loosening or losing their integrity.
4. CONDENSER MOUNTINGS form an integral part of these drawn shell containers insuring permanent and rigid fastenings.
5. All units are NON-INDUCTIVELY WOUND providing efficient operation over the widest range of frequencies.
6. HERMETICALLY SEALED, they are unaffected by time, temperature or humidity.
7. CONSERVATIVELY RATED for safe and continuous uninterrupted operation at 10% above rated voltage for the lifetime of associated equipment.
8. Tested at twice the rated voltage between terminals and twice the rated voltage plus 1000 from each terminal to case.

| Cat. No. | Cap. in MFDS. | Dimensions in Inches | | | | | List Price |
|------------------------------|---------------|----------------------|-------|-------|-------|-------|------------|
| | | L | W | H | M | O | |
| 600 V. D. C. WORKING | | | | | | | |
| 6BA05 | .05 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | \$2.20 |
| 6BA10 | .1 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 2.25 |
| 6BA25 | .25 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 2.40 |
| 6BA50 | .5 | 1 1/8 | 1 | 7/8 | 2 1/8 | 2 1/2 | 2.55 |
| 6BA100 | 1.0 | 2 | 1 3/4 | 7/8 | 2 1/8 | 2 3/4 | 2.90 |
| 6BA0505 | .05-.05 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 2.80 |
| 6BA11 | .1-1 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 2.85 |
| 6BA22 | .25-.25 | 2 | 1 3/4 | 7/8 | 2 1/8 | 2 3/4 | 2.90 |
| 6BA55 | .5-5 | 2 | 1 3/4 | 7/8 | 2 1/8 | 2 3/4 | 3.30 |
| 6BA111 | .1-1-1 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 3.25 |
| 6BA200 | 2 | 2 | 2 | 1 1/8 | 2 1/8 | 2 3/4 | 3.90 |
| 1000 V. D. C. WORKING | | | | | | | |
| 10BA05 | .05 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 2.35 |
| 10BA10 | .1 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 2.40 |
| 10BA25 | .25 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 2.50 |
| 10BA50 | .5 | 2 | 1 3/4 | 7/8 | 2 1/8 | 2 3/4 | 2.70 |
| 10BA100 | 1.0 | 2 | 2 | 1 1/8 | 2 1/8 | 2 3/4 | 3.40 |
| 10BA0505 | .05-.05 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 3.00 |
| 10BA11 | .1-1 | 1 1/8 | 1 | 1 1/8 | 2 1/8 | 2 1/2 | 3.10 |
| 10BA22 | .25-.25 | 2 | 1 3/4 | 7/8 | 2 1/8 | 2 3/4 | 3.25 |

Above units also available in 200 V. D. C., 400 V. D. C. and 1500 V. D. C, on request.



MOTOR STARTING CONDENSERS

These motor starting condensers are all heavy duty three second start. Built of the finest materials obtainable, these capacitors are engineered to the Nth degree of perfection. They are used by all the leading manufacturers of high quality motors.

The listings shown will take care of 90% of all your replacement requirements.

| Number | Size, Inches | Capacity | List Price |
|--------|------------------------------------|-----------|------------|
| MS145 | 1 3/8 Dia. x 3 1/4 | 45 - 70 | \$1.90 |
| MS170 | 1 3/8 Dia. x 3 1/4 | 70 - 85 | 2.00 |
| MS185 | 1 3/8 Dia. x 3 1/4 | 85 - 115 | 2.05 |
| MS1108 | 1 3/8 Dia. x 3 1/4 | 108 - 120 | 2.05 |
| MS1120 | 1 3/8 Dia. x 3 1/4 | 120 - 150 | 2.15 |
| MS1145 | 1 3/8 Dia. x 3 1/4 | 145 - 162 | 2.70 |
| MS285 | 1 1/2 Dia. x 3 3/4 | 85 - 115 | 2.20 |
| MS2120 | 1 1/2 Dia. x 3 3/4 | 120 - 150 | 2.30 |
| MS390 | 2 Dia. x 4 1/2 | 90 - 115 | 3.05 |
| MS3120 | 2 Dia. x 4 1/2 | 120 - 150 | 3.20 |
| MS3245 | 2 Dia. x 4 1/2 | 245 - 300 | 4.20 |
| MS3161 | 2 Dia. x 4 1/2 | 161 - 190 | 3.50 |
| MS3191 | 2 Dia. x 4 1/2 | 191 - 240 | 3.85 |
| MS485 | 2 1/2 Dia. x 4 1/2 | 85 - 115 | 3.05 |
| MS4120 | 2 1/2 Dia. x 4 1/2 | 120 - 150 | 3.20 |
| MS5100 | 3 Dia. x 4 1/2 | 100 - 115 | 3.10 |
| MS690 | 3 1/2 Dia. x 4 x 2 | 90 - 115 | 3.30 |
| MS6124 | 3 1/2 Dia. x 4 x 2 | 124 - 138 | 3.70 |
| MS6145 | 3 1/2 Dia. x 4 x 2 | 145 - 162 | 4.30 |
| MS780 | 3 1/2 Dia. x 4 x 2 | 80 | 3.20 |
| MS750 | 3 1/2 Dia. x 4 x 2 | 50 - 65 | 3.05 |
| MS8100 | 4 1/2 Dia. x 4 1/2 x 1 1/4 | 100 - 120 | 3.80 |
| MS870 | 4 1/2 Dia. x 4 1/2 x 1 1/4 | 70 - 90 | 3.35 |
| R | Mounting Bracket for 1 3/8 x 3 1/4 | | .75 |
| S | Mounting Bracket for 2 x 4 1/2 | | .95 |

SEND FOR BULLETIN No. 1075 WHICH LISTS OUR OIL FILLED MOTOR RUNNING CAPACITORS

CAPACITORS TO 250,000 V.D.C.W.

INCCO OIL "A" IMPREGNATED AND FILLED assures smaller size, low power factor, and widest range of operating temperatures.

ELECTRIC ARC WELDED HEAVY GAUGE HOT TINNED STEEL CASES are non-corrosive—finished in durable lacquer.

GLAZED WET-PROCESS PORCELAIN INSULATORS—low moisture absorption and high terminal to case flash over.

WOUND WITH HIGHEST GRADE CONDENSER TISSUES—insures a long, uninterrupted life.

CONSERVATIVELY RATED—Safe for continuous operation at 10 per cent overload.

HERMETICALLY SEALED STEEL CASE — unaffected by time, humidity or operating temperatures.

AVAILABLE TO MEET U. S. SIGNAL CORPS AND NAVY SALT WATER SUBMERSION REQUIREMENTS.

TYPE "WA" — HIGH VOLTAGE OIL FILLED CAPACITORS

| Cat. No. | Cap. Mfd. | Case Dimensions in Inches | | | List Price |
|--------------------------------|-----------|---------------------------|--------|--------|------------|
| | | Width | Length | Height | |
| 6,000 V. D. C. WORKING | | | | | |
| 60WA200 | 2. | 4 | 8 | 11 | \$108.00 |
| 60WA400 | 4. | 4 | 12 | 11 | 132.00 |
| 60WA500 | 5. | 4 | 12 | 11 | 150.00 |
| 60WA600 | 6. | 4 | 12 | 13 | 168.00 |
| 60WA1000 | 10. | 6 | 12 | 13 | 210.00 |
| 7,500 V. D. C. WORKING | | | | | |
| 75WA50 | .5 | 4 | 8 | 11 | 60.00 |
| 75WA100 | 1. | 4 | 8 | 11 | 78.00 |
| 75WA200 | 2. | 4 | 8 | 11 | 120.00 |
| 75WA400 | 4. | 4 | 12 | 13 | 180.00 |
| 75WA600 | 6. | 6 | 12 | 13 | 216.00 |
| 10,000 V. D. C. WORKING | | | | | |
| 100WA100 | 1. | 4 | 8 | 11 | 156.00 |
| 100WA200 | 2. | 4 | 8 | 13 | 198.00 |
| 100WA400 | 4. | 6 | 12 | 13 | 240.00 |
| 100WA500 | 5. | 6 | 12 | 13 | 264.00 |
| 12,500 W. D. C. WORKING | | | | | |
| 125WA50 | .5 | 4 | 8 | 11 | 132.00 |
| 125WA100 | 1. | 4 | 12 | 11 | 168.00 |
| 125WA200 | 2. | 6 | 12 | 13 | 210.00 |
| 125WA500 | 5. | 9 1/2 | 12 | 15 | 396.00 |

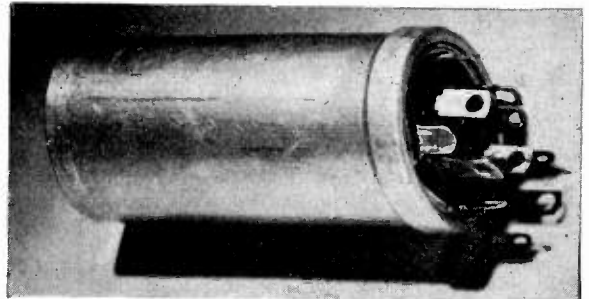


| Cat. No. | Cap. Mfd. | Case Dimensions in Inches | | | List Price |
|---------------------------------|-----------|---------------------------|--------|--------|------------|
| | | Width | Length | Height | |
| 15,000 V. D. C. WORKING | | | | | |
| 150WA25 | .25 | 4 | 8 | 11 | \$126.00 |
| 150WA50 | .5 | 4 | 12 | 11 | 150.00 |
| 150WA100 | 1. | 4 | 12 | 13 | 210.00 |
| 150WA200 | 2. | 9 1/2 | 12 | 15 | 276.00 |
| 150WA300 | 3. | 9 1/2 | 12 | 15 | 378.00 |
| 20,000 V. D. C. WORKING | | | | | |
| 200WA25 | .25 | 4 | 8 | 11 | 150.00 |
| 200WA50 | .5 | 4 | 12 | 11 | 192.00 |
| 200WA100 | 1. | 6 | 12 | 13 | 258.00 |
| 200WA150 | 1.5 | 9 1/2 | 12 | 15 | 348.00 |
| 200WA200 | 2.0 | 9 1/2 | 12 | 15 | 414.00 |
| 25,000 V. D. C. WORKING | | | | | |
| 250WA20 | .2 | 4 | 12 | 11 | 156.00 |
| 250WA25 | .25 | 4 | 12 | 11 | 210.00 |
| 250WA50 | .5 | 6 | 12 | 13 | 228.00 |
| 250WA100 | 1. | 9 1/2 | 12 | 15 | 342.00 |
| 50,000 V. D. C. WORKING | | | | | |
| 500WA25 | .25 | 6 | 13 1/2 | 18 1/2 | * |
| 500WA50 | .5 | 7 1/4 | 18 | 20 | * |
| 80,000 V. D. C. WORKING | | | | | |
| 800WA25 | .25 | 7 3/4 | 18 | 20 | * |
| 100,000 V. D. C. WORKING | | | | | |
| 1000WA20 | .2 | 7 1/4 | 18 | 20 | * |

* Prices on application.

| Catalog Number | Cap. Mfd. | D.C. Voltage | | Dim. in Ins. | | List Price |
|----------------|-----------|--------------|--------|--------------|---------|------------|
| | | Working | Surge | Diam. | Lg. | |
| 52ET100 | 100 | 25 | | 35 | 1 2 | \$1.25 |
| 15ET30 | 30 | 150 | | 225 | 1 2 | 1.10 |
| 15ET50 | 50 | 150 | | 225 | 1 2 | 1.25 |
| 45ET10 | 10 | 450 | | 550 | 1 2 | 1.15 |
| 45ET15 | 15 | 450 | | 550 | 1 2 | 1.35 |
| 45ET20 | 20 | 450 | | 550 | 1 2 1/2 | 1.50 |
| 45ET30 | 30 | 450 | | 550 | 1 3 | 1.75 |
| 15ET2x20 | 20-20 | 150 | | 225 | 1 2 | 1.35 |
| 15ET2x30 | 30-30 | 150 | | 225 | 1 2 | 1.50 |
| 15ET2x50 | 50-50 | 150 | | 225 | 1 3 | 1.80 |
| 30ET2x15 | 15-15 | 300 | | 400 | 1 2 | 1.70 |
| 35ET3020 | 30-20 | 350 | | 450 | 1 3 | 2.25 |
| 45ET2x10 | 10-10 | 450 | | 550 | 1 2 1/2 | 1.80 |
| ET100 | 30-20/20 | 150/25 | 225/35 | 1 | 2 | 1.90 |
| ET101 | 40-30/20 | 150/25 | 225/35 | 1 | 2 1/2 | 2.05 |
| 15ET3x20 | 20-20-20 | 150 | 225 | 1 | 2 | 2.00 |
| ET102 | 40-20-20 | 150 | 225 | 1 | 2 1/2 | 2.10 |
| 15ET3x40 | 40-40-40 | 150 | 225 | 1 | 3 | 2.20 |
| ET103 | 10-10/25 | 450/25 | 550/35 | 1 | 3 | 2.00 |
| 45ET3x10 | 10-10-10 | 450 | 550 | 1 | 3 | 2.15 |

ET SERIES ELECTROLYTIC CAPACITORS



"ET" series capacitors have been designed for ease in installation and reliability. They are constructed to withstand the most severe operating conditions encountered in industrial and electronic equipment. Especially controlled manufacturing processes insure that the equipment in which these capacitors are used will function without interruption. Capacitors can be supplied for operation at temperatures ranging from minus 40 to plus 85 degrees Centigrade. Mounting is effected by inserting the capacitor through the slots in either the chassis or mounting plate, and twisting the mounting prongs 90 degrees.

INDUSTRIAL



CONDENSER

TELEVISION AND TUBULAR PAPER CONDENSERS



TYPE PT

INDUSTRIAL By-Pass Capacitors are non-inductively wound and designed for maximum efficiency up to the highest frequencies. The units themselves are completely impregnated and sealed with a special non-hygroscopic sealing compound, thus preventing moisture penetration under the most humid conditions.

| Catalog Number | Capacity Mfd. | Working Volts D.C. | List Price |
|----------------|---------------|--------------------|------------|
| PT100 | .0001 | 1000 | \$0.20 |
| PT101 | .00025 | 1000 | .20 |
| PT102 | .0005 | 1000 | .20 |
| PT103 | .001 | 1000 | .20 |
| PT104 | .002 | 1000 | .20 |
| PT105 | .005 | 1000 | .20 |
| PT106 | .006 | 1000 | .20 |
| PT107 | .01 | 1000 | .25 |
| PT131 | .001 | 600 | .20 |
| PT132 | .002 | 600 | .20 |
| PT133 | .005 | 600 | .20 |
| PT134 | .006 | 600 | .20 |
| PT135 | .01 | 600 | .25 |
| PT136 | .02 | 600 | .25 |
| PT137 | .03 | 600 | .30 |
| PT130 | .04 | 600 | .30 |
| PT138 | .05 | 600 | .30 |
| PT139 | .1 | 600 | .35 |
| PT140 | .25 | 600 | .45 |
| PT141 | .5 | 600 | .65 |
| PT142 | 1.0 | 600 | 1.00 |
| PT170 | .01 | 400 | .20 |
| PT171 | .02 | 400 | .20 |
| PT172 | .05 | 400 | .25 |
| PT173 | .1 | 400 | .30 |
| PT174 | .25 | 400 | .35 |
| PT175 | .5 | 400 | .50 |
| PT176 | 1.0 | 400 | .75 |
| PT200 | .02 | 200 | .20 |
| PT201 | .06 | 200 | .20 |
| PT202 | .1 | 200 | .25 |
| PT203 | .25 | 200 | .35 |
| PT204 | .5 | 200 | .45 |
| PT205 | 1.0 | 200 | .70 |
| PT260* | .005 | 2000 | .45 |
| PT261* | .0075 | 2000 | .45 |
| PT262* | .01 | 2000 | .45 |
| PT263* | .02 | 2000 | .50 |
| PT264 | .015-.015 | 1600 | .80 |
| PT268 | .0005 | 6000 | .75 |
| PT265 | .001 | 6000 | .75 |
| PT266 | .005 | 6000 | .75 |
| PT269 | .03 | 6000 | 1.10 |
| PT267 | .05 | 6000 | 1.15 |

* Vibrator capacitor.

RADIO INTERFERENCE ELIMINATORS

INDUSTRIAL CONDENSER CORP. has made a special study of the suppression of noises caused by fluorescent lighting. No. 7249 capacitor is designed with three leads, two leads to be connected across the 110 volt line and the single lead to be grounded. No. 4219 is housed in a metal container and is self grounding. It is supplied with strap mounting for easy installation. No. 4252 and No. 4253 are flat type units designed to mount on the ballast support of circline ballasts. The convenient mounting flap grounds the unit when the stem of the lamp is placed through the mounting hole.

| Catalog Number | Dimensions in Inches | List Price |
|----------------|----------------------|------------|
| 7249 | 1 1/4 x 1 3/8 | \$1.00 |
| 4219 | 3/4 x 2 | 1.35 |
| 4252 | 2 1/8 x 7/8 x 1 1/2 | 1.50 |

DIRECT REPLACEMENT

For Either Dry or Wet Types

No Drilling — No Changes

The "IL" type capacitor is a dry electrolytic assembled in an aluminum container having a threaded mounting neck which is an integral part of the container.

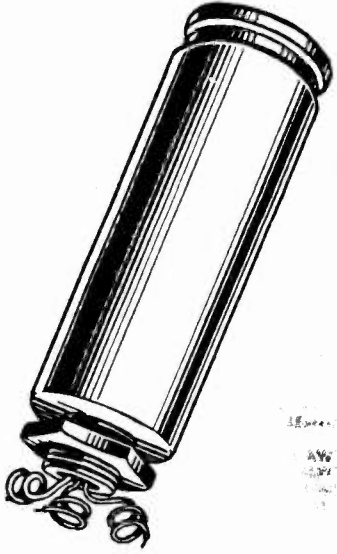
Our "IL" type capacitors may be used as replacements for the old type wet or dry electrolytic capacitors and will mount in the same mounting hole as the part replaced, eliminating the use of adaptors or auxiliary workmanship.

Electrically and mechanically this condenser is designed for heavy duty service. It incorporates the exclusive INDUSTRIAL etched foil process of construction.

Although these capacitors are not hermetically sealed, they are highly superior to the paper type units generally used for this kind of replacement.

These units are supplied with Underwriters Approved 75° C rubber covered leads.

Individually boxed in attractive carton with instructions.



To replace 1 3/8" diameter screw neck type

| Cat. No. | Cap. Mfd. | Work Volt | Peak Volt | Dimensions | Mtg. Neck | List Price | |
|----------|-----------|-----------|-----------|-------------|-------------|------------|------|
| IL649 | 8 | 600 | 725 | 1 3/8" x 4" | 3/4" | \$3.40 | |
| IL650 | 8 | 475 | 600 | 1 3/8" x 4" | 3/4" | 1.55 | |
| IL651 | 12 | 475 | 600 | 1 3/8" x 4" | 3/4" | 1.83 | |
| IL652 | 16 | 475 | 600 | 1 3/8" x 4" | 3/4" | 2.04 | |
| IL653 | 4 leads | 8-8 | 475 | 600 | 1 3/8" x 4" | 3/4" | 2.50 |
| IL646 | 20 | 475 | 600 | 1 3/8" x 4" | 3/4" | 2.25 | |
| IL647 | 30 | 475 | 600 | 1 3/8" x 4" | 3/4" | 2.55 | |
| IL648 | 40 | 475 | 600 | 1 3/8" x 4" | 3/4" | 2.89 | |

AUTO GENERATOR CONDENSER

ALSO AVAILABLE IN HERMETICALLY SEALED SUBMERSION-PROOF CONSTRUCTION



TYPE F



TYPE G

Completely enclosed in a metal container to overcome severe operating conditions of temperature and humidity. Sturdily built to withstand constant vibration.

| Cat. No. | Cap. Mfd. | List Price | Cat. No. | Cap. Mfd. | List Price |
|----------|-----------|------------|----------|-----------|------------|
| G325 | .25 | \$0.77 | G328 | 1.0 | \$1.15 |
| G326 | .5 | .85 | F330 | .5 | 1.06 |

DRY ELECTROLYTIC CONDENSERS

MIGHTY MIDGET METAL TUBULAR TYPE "MM"

| Cat. No. | Cap. Mfd. | W.V. | Peak Volts | Dimen. Dia. L. | List Price |
|----------|-----------|------|------------|----------------|------------|
| MM406 | 100 | 10 | 15 | 1 1/8 x 1 1/8 | \$1.15 |
| MM407 | 250 | 10 | 15 | 1 1/8 x 2 1/8 | 1.25 |
| MM408 | 500 | 10 | 15 | 1 1/8 x 2 3/8 | 2.30 |
| MM409 | 750 | 10 | 15 | 1 1/8 x 2 1/2 | 3.00 |
| MM400 | 5 | 25 | 35 | 1 1/8 x 1 1/8 | .70 |
| MM401 | 10 | 25 | 35 | 1 1/8 x 1 1/8 | .70 |
| MM402 | 25 | 25 | 35 | 1 1/8 x 1 1/8 | .75 |
| MT403*† | 10-10 | 25 | 35 | 1 1/8 x 2 3/8 | .95 |
| MM410 | 250 | 25 | 35 | 1 1/8 x 2 3/8 | 1.70 |
| MM411 | 500 | 25 | 35 | 1 1/8 x 2 1/2 | 2.00 |
| MM404 | 10 | 50 | 75 | 1 1/8 x 1 1/8 | .70 |
| MM405 | 25 | 50 | 75 | 1 1/8 x 1 1/8 | .80 |
| MM412 | 100 | 50 | 75 | 1 1/8 x 2 3/8 | 1.30 |
| MM413 | 200 | 50 | 75 | 1 1/8 x 2 3/8 | 2.00 |
| MM414 | 300 | 50 | 75 | 1 1/8 x 2 1/2 | 2.75 |
| MM360 | 8 | 150 | 225 | 1 1/8 x 1 1/8 | .70 |
| MM368 | 12 | 150 | 225 | 1 1/8 x 1 1/8 | .75 |
| MM361 | 16 | 150 | 225 | 1 1/8 x 1 1/8 | .80 |
| MM362 | 20 | 150 | 225 | 1 1/8 x 2 3/8 | .85 |
| MM369 | 30 | 150 | 225 | 1 1/8 x 2 3/8 | .90 |
| MM363 | 40 | 150 | 225 | 1 1/8 x 2 3/8 | 1.00 |
| MM373 | 60 | 150 | 225 | 1 1/8 x 2 3/8 | 1.20 |
| MM374 | 80 | 150 | 225 | 1 1/8 x 2 3/8 | 1.30 |
| MM370† | 20-20 | 150 | 225 | 1 1/8 x 2 3/8 | 1.20 |
| MM375† | 30-30 | 150 | 225 | 1 1/8 x 2 3/8 | 1.35 |
| MM376† | 40-40 | 150 | 225 | 1 1/8 x 2 3/8 | 1.55 |
| MM364 | 4 | 475 | 600 | 1 1/8 x 1 1/8 | .80 |
| MM365 | 8 | 475 | 600 | 1 1/8 x 2 3/8 | .85 |
| MM371 | 12 | 475 | 600 | 1 1/8 x 2 3/8 | 1.05 |
| MM366 | 16 | 475 | 600 | 1 1/8 x 2 3/8 | 1.20 |
| MM372 | 20 | 475 | 600 | 1 1/8 x 2 3/8 | 1.35 |
| MM367† | 8-8 | 475 | 600 | 1 1/8 x 2 3/8 | 1.50 |

* In cardboard tube with wax filled ends. † 3 leads.

MIGHTY MIDGET CARTON TYPE "MC"

| Cat. No. | Cap. Mfd. | W.V. | Peak Volts | Dimensions W. T. L. | List Price |
|----------|-----------|------|------------|-----------------------|------------|
| MC451† | 20-20 | 150 | 225 | 2 1/2 x 1 1/8 x 1 1/4 | \$2.10 |
| MC452 | 8 | 475 | 600 | 2 1/2 x 3/4 x 1 1/8 | 1.45 |
| MC453† | 4-4 | 475 | 600 | 2 1/2 x 1 1/8 x 1 1/4 | 1.90 |
| MC454† | 8-8 | 475 | 600 | 3 x 1 x 1 1/4 | 2.30 |

† 4 leads.

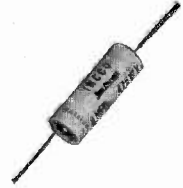
"SB" AND "SM" TYPE

| Cat. No. | Cap. Mfd. | W.V. | Peak Volts | Dimen. Dia. L. | List Price |
|----------|-----------|------|------------|----------------|------------|
| SB550† | 16-12 | 150 | 225 | 1 3/8 x 3 3/4 | \$1.90 |
| SB552† | 8-8 | 475 | 600 | 1 3/8 x 3 3/4 | 1.90 |
| SM600* | 30-10 | 150 | 225 | 1 1/8 x 3 | 1.15 |
| SM605* | 20-20 | 150 | 225 | 1 1/8 x 2 1/2 | 1.15 |
| SM606† | 20-20 | 150 | 225 | 1 x 2 1/2 | 1.80 |
| SM601* | 30-30 | 150 | 225 | 1 1/8 x 3 | 1.30 |
| SM608* | 40-40 | 150 | 225 | 1 x 3 | 1.45 |
| SM607* | 50-30 | 150 | 225 | 1 x 3 | 1.45 |
| SM610* | 40-20 | 150 | 225 | 1 1/8 x 3 | 1.30 |
| SM609† | 30-20-20 | 150 | 225 | 1 x 3 | 1.70 |
| SM603 | 8 | 475 | 600 | 1 1/8 x 3 | 1.05 |
| SM604* | 8-8 | 475 | 600 | 1 x 3 | 1.65 |

* SM600, SM605, SM601, SM608, SM607, SM610: 3 leads.

† SM606, SM609, SB550, SB552: 4 leads.

An extremely popular type of condenser due to its exceptional high quality and midget size. Hermetically sealed in a small metal case and scientifically vented, to protect against adverse operating conditions of voltage, temperature and humidity. Container is insulated by a high grade tube which is spun over the ends of the can to eliminate shorts when wires are bent close to container. Easily mounted by their rigid wire leads.



Type MM

All Type "MM" units are available with mounting strap. Recommended in cases of extreme vibration or when advisable to have unit solidly anchored. When ordering add the letter S before the catalog number.



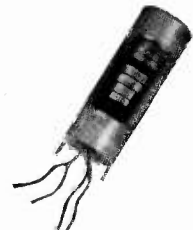
Type MMS

Each unit is completely embedded in a high grade wax and then sealed in an impregnated carton to insure efficient operation under the most adverse conditions. New, high voltage formation, gives complete protection against surges and high peak voltages. Supplied with color coded, Underwriters' Approved, rubber covered leads. Universal lugs permit easy mounting in any position.



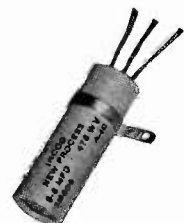
Type MC

Spade bolt type "SB" of mounting has been very popular due to its wide use in many radio sets. Each unit is embedded in a high temperature wax and then sealed in a thoroughly impregnated cardboard tube, affording complete immunity to moisture penetration. New high voltage formation gives complete protection against surges and high peak voltages.



Type SB

Type "SM" has identical characteristics as "SB". The addition of the strap mounting bracket has proved favorable in its use due to its wide application in AC-DC and portable sets in the replacement field. The strap can be moved to the best mounting position and then bolted or soldered.



Type SM

Supplied with color-coded, Underwriters' Approved, rubber covered leads.

Jennings

VACUUM RADIO ELECTRONIC COMPONENTS

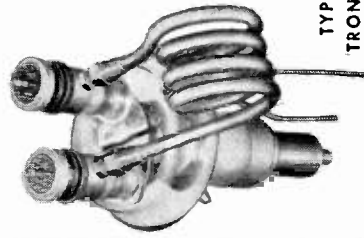
FIXED and VARIABLE HIGH VOLTAGE VACUUM CAPACITORS

• SPECIFICATIONS •

| FIGURES | JENNINGS TYPE NUMBERS | CAPACITIES IN MMFDS. | KV. PEAK TEST VOLTAGE | PEAK AMPERES | DIMENSIONS | | | MOUNT C to C |
|----------------------|-----------------------------|-----------------------------|--------------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
| | | | | | Overall Length | Maximum O. D. | Ferrule Diameter | |
| VAC. FIXED NICKEL | 8 VC | 6, 12, 25, 50, 75, 100, 150 | 20-30 | 15-20 | 6 $\frac{1}{2}$ " | 2 $\frac{1}{4}$ " | 1 $\frac{3}{8}$ " | 5 $\frac{1}{2}$ " |
| | 8 VC | 200, 250 | 20-30 | 15-20 | 6 $\frac{1}{2}$ " | 2 $\frac{1}{16}$ " | 1 $\frac{3}{8}$ " | 5 $\frac{1}{2}$ " |
| | 9 W | 6, 12, 25, 50, 100 | 20 | 15 | 4 $\frac{3}{4}$ " | 2 $\frac{1}{4}$ " | 1 $\frac{1}{8}$ " | 3 $\frac{1}{2}$ " |
| | 9 X | 5, 10, 15, 20, 25 | 17 | 10 | 3 $\frac{1}{4}$ " | 1 $\frac{1}{4}$ " | 1 $\frac{1}{8}$ " | 2 $\frac{3}{8}$ " |
| | 9 Y | 1, 2, 3, 4, 5 | 17 | 10 | 3 $\frac{1}{4}$ " | 1" | 1 $\frac{1}{8}$ " | 2 $\frac{7}{8}$ " |
| | 6 M | 500, 750, 1000 | 10-15 | 30 | 8 $\frac{3}{4}$ " | 5" | 2" | 6 $\frac{1}{4}$ " |
| | 6 ML | 500, 750, 1000 | 20-30 | 30 | 9 $\frac{1}{4}$ " | 5" | 2" | 7 $\frac{1}{4}$ " |
| | 6 MH | 200 or less | 35-50 | 30 | 8 $\frac{1}{2}$ " | 5" | 2" | 6 $\frac{1}{16}$ " |
| | 6 K | 50 | 35-50 | 15-20 | 8 $\frac{1}{2}$ " | 3" | 3" | 7 $\frac{3}{4}$ " |
| | 5 JC-1 | 25 or less | 15-25 | 40 | 4 $\frac{1}{2}$ " | 1 $\frac{3}{4}$ " | 1" | 3 $\frac{5}{8}$ " |
| 5 JC-2 | 25, 50, 100 | 15-25 | 60 | 3 $\frac{3}{4}$ " | 3 $\frac{1}{4}$ " | 1 $\frac{1}{8}$ " | 3 $\frac{1}{8}$ " | |
| 3 JC-3 | 20, 40, 50, 60 | 35-50 | 200 | 8 $\frac{1}{4}$ " | 4 $\frac{1}{4}$ " | 2" | 6 $\frac{1}{2}$ " | |
| 3 JC-4 | 100 or 125 | 35-50 | 200 | 9 $\frac{1}{4}$ " | 5" | 3 $\frac{1}{8}$ " | 7" | |
| 10 JCS | 75, 100, 250 | 7.5-12 | 60 | 3 $\frac{5}{8}$ " | 2 $\frac{5}{8}$ " | 1 $\frac{5}{8}$ " | 3 $\frac{1}{8}$ " | |
| 8 VCC | 6, 12, 25, 50, 75, 100, 150 | 20-30 | 60 | 6 $\frac{1}{8}$ " | 2 $\frac{1}{4}$ " | 1 $\frac{3}{8}$ " | 5 $\frac{7}{8}$ " | |
| 8 VCC | 200, 250 | 20-30 | 60 | 6 $\frac{1}{2}$ " | 2 $\frac{1}{16}$ " | 1 $\frac{3}{8}$ " | 5 $\frac{7}{8}$ " | |
| 6 MC | 500, 750, 1000 | 10-15 | 85 | 8 $\frac{3}{8}$ " | 5" | 2" | 6 $\frac{1}{8}$ " | |
| 6 MHC | 200 or less | 35-50 | 85 | 8 $\frac{1}{2}$ " | 5" | 2" | 6 $\frac{1}{16}$ " | |
| 7 T | 5-25 | 20 | 15 | 6 $\frac{1}{4}$ " | 2 $\frac{1}{4}$ " | 1" | 4" | |
| 7 TR | 2-8 | 17 | 15 | 6 $\frac{1}{2}$ " | 2 $\frac{1}{4}$ " | 1 $\frac{1}{8}$ " | 4" | |
| 4 AT | 10-50 | 20-30 | 15 | 6 $\frac{1}{2}$ " | 3" | 1" | 4 $\frac{1}{8}$ " | |
| 2 U | 50-250 | 10-15 | 30 | 11 $\frac{7}{8}$ " | 5" | 2" | 6 $\frac{1}{2}$ " | |
| 2 UH | 10-75, 75-150 | 35-50 | 30 | 11 $\frac{7}{8}$ " | 5" | 2" | 6 $\frac{1}{2}$ " | |
| 1 UX | 40-560 | 10-15 | 30 | 14" | 5" | 3 $\frac{1}{8}$ " | 7 $\frac{1}{8}$ " | |
| 1 UXH | 25-150 | 35-50 | 30 | 14 $\frac{1}{2}$ " | 5" | 3 $\frac{1}{8}$ " | 8 $\frac{1}{8}$ " | |
| 2 VM | 50-1000 | 10-15 | 30 | 14 $\frac{1}{8}$ " | 7" | 3 $\frac{3}{8}$ " | 7 $\frac{3}{8}$ " | |
| 7 TC | 5-25 | 20 | 30 | 6 $\frac{1}{4}$ " | 2 $\frac{1}{4}$ " | 1" | 4" | |
| 1 UXC | 40-560 | 10-15 | 85 | 14" | 5" | 3 $\frac{1}{8}$ " | 7 $\frac{3}{8}$ " | |
| 11 UCS | 5-200, 10-300 | 5-10 | 60 | 8 $\frac{9}{16}$ " | 2 $\frac{5}{8}$ " | 2 $\frac{5}{8}$ " | 4 $\frac{9}{16}$ " | |
| 2 UC | 50-250 | 35-50 | 85 | 11 $\frac{7}{8}$ " | 5" | 2" | 6 $\frac{1}{2}$ " | |
| 2 UHC | 10-75, 75-150 | 35-50 | 85 | 11 $\frac{7}{8}$ " | 5" | 2" | 6 $\frac{1}{2}$ " | |
| 1 UXHC | 15-100 | 35-50 | 85 | 14" | 5" | 3 $\frac{1}{8}$ " | 7 $\frac{3}{8}$ " | |
| 1 UXHC | 25-150 | 35-50 | 85 | 14 $\frac{1}{2}$ " | 5" | 3 $\frac{1}{8}$ " | 8 $\frac{1}{4}$ " | |

CURRENT RATINGS MAY BE INCREASED BY FORCED COOLING—WITH ADEQUATE MOUNTINGS

JENNINGS RADIO MANUFACTURING COMPANY • 1098 E. WILLIAM ST. • SAN JOSE 12, CALIFORNIA

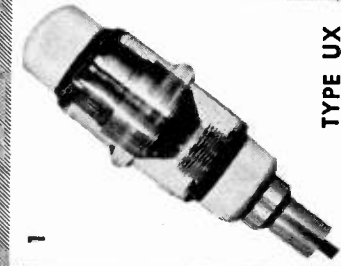


TYPE
TRONAD

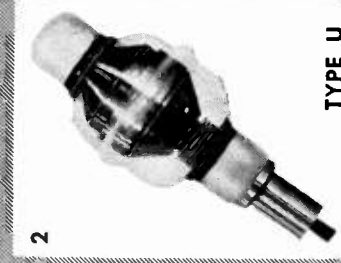
TRONAD... It's New, It's Complete, It Simplifies

- 1 Combines tube, variable or fixed vacuum condenser with coil.
- 2 Reduces and simplifies wiring.
- 3 Saves space and weight.
- 4 Increases circuit efficiency.
- 5 Eliminates circuit parasitics.
- 6 Makes practical Split-Stator operation for harmonic suppression.
- 7 Tronad is designed for single ended units but available in Split-Stator.
- 8 (Air cooled or water cooled).
- 9 (Tube is replaceable).

FIXED AND VARIABLE HIGH VOLTAGE VACUUM CAPACITORS



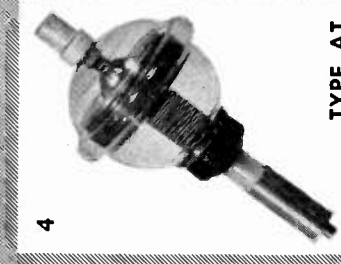
TYPE UX



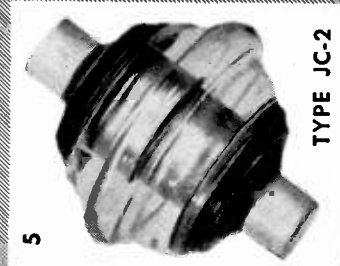
TYPE U



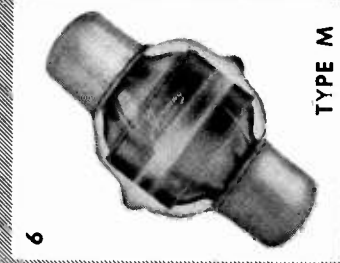
TYPE JC-3



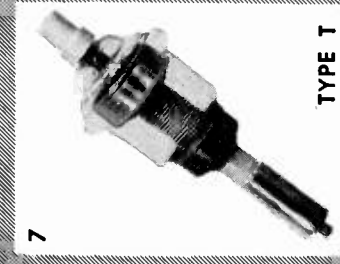
TYPE AT



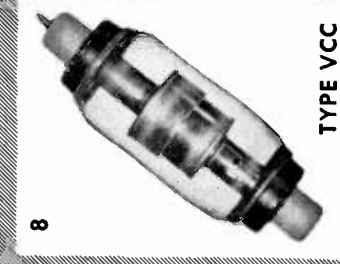
TYPE JC-2



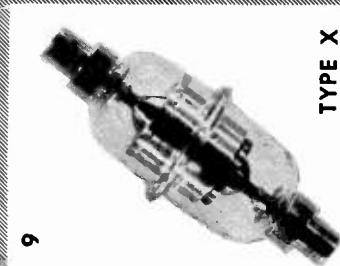
TYPE M



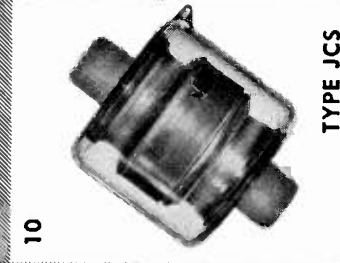
TYPE T



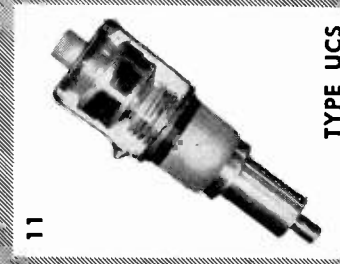
TYPE VCC



TYPE X



TYPE JCS



TYPE UCS

Special characteristics
on a to-order basis
Watch JENNINGS
for new developments
in the field of specialized

VACUUM
ELECTRONIC
COMPONENTS

JENNINGS RADIO MANUFACTURING COMPANY • 1098 E. WILLIAM ST. • SAN JOSE 12, CALIFORNIA



CHICAGO CONDENSER CORPORATION

CHICAGO 47, ILLINOIS



| TYPE NO. | CAP. MFD. | LENGTH | DIAMETER |
|---------------------------------|-----------|--------|----------|
| 200 VOLTS D.C. OPERATING | | | |
| 25x2 | 1.0 | 2 1/2" | 1" |
| 2500 | .5 | 2" | 3/4" |
| 2250 | .25 | 1 3/4" | 5/8" |
| 2100 | .1 | 1 5/8" | 1/2" |
| 2050 | .05 | 1 1/4" | 7/16" |
| 2040 | .04 | 1 1/4" | 7/16" |
| 2030 | .03 | 1 1/4" | 3/8" |
| 2020 | .02 | 1 1/4" | 3/8" |
| 2010 | .01 | 1 1/4" | 3/8" |
| 400 VOLTS D.C. OPERATING | | | |
| 45x2 | 1.0 | 2 1/2" | 1" |
| 4500 | .5 | 2" | 7/8" |
| 4250 | .25 | 2" | 1 1/16" |
| 4100 | .1 | 1 5/8" | 9/16" |
| 4050 | .05 | 1 5/8" | 7/16" |
| 4040 | .04 | 1 5/8" | 7/16" |
| 4030 | .03 | 1 5/8" | 7/16" |
| 4020 | .02 | 1 1/4" | 7/16" |
| 4010 | .01 | 1 1/4" | 3/8" |
| 600 VOLTS D.C. OPERATING | | | |
| 6500 | .5 | 2 1/2" | 1 1/8" |
| 6250 | .25 | 2" | 3/4" |
| 6100 | .1 | 1 7/8" | 5/8" |
| 6050 | .05 | 1 5/8" | 9/16" |
| 6040 | .04 | 1 5/8" | 9/16" |
| 6030 | .03 | 1 5/8" | 1/2" |
| 6020 | .02 | 1 5/8" | 7/16" |
| 6010 | .01 | 1 1/4" | 3/8" |
| 6006 | .006 | 1 1/4" | 3/8" |
| 6005 | .005 | 1 1/4" | 3/8" |
| 6004 | .004 | 1 1/4" | 3/8" |
| 6003 | .003 | 1 1/4" | 3/8" |
| 6002 | .002 | 1 1/4" | 3/8" |
| 6001 | .001 | 1 1/4" | 3/8" |

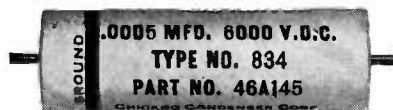
CHICAGO WAX TUBULAR CAPACITORS



- NON-INDUCTIVELY WOUND
- HIGH VACUUM IMPREGNATION
- PAPER TUBES VACUUM WAXED
- TINNED COPPER WIRE
- END FILLED WITH HI-WAX
- FLASH TESTED 3 TIMES

APPROVED TELEVISION CAPACITORS USED BY LEADING MANUFACTURERS

| TYPE NO. | CAPACITY | LENGTH | DIAMETER |
|------------------------|----------|--------|----------|
| 6000 VOLTS D.C. | | | |
| 834 | .0005 | 2" | 5/8" |
| 833 | .001 | 2" | 5/8" |
| 850 | .005 | 2 5/8" | 1" |
| 854 | .03 | 3 1/2" | 1 1/8" |
| 832 | .05 | 3 1/2" | 1 1/2" |



CHICAGO OIL IMPREGNATED VACUUM FILLED CAPACITORS

BATH TUB TYPE CONDENSER
BATH TUB TYPE RADIO & MOTORS
INTERFERENCE • ELECTRONIC
SPECIAL TIMING • HERMETICALLY SEALED
TESTED AT THREE-TIME VOLTAGE



ALL SINGLE UNITS HAVE 2 TERMINALS—ALL DUAL UNITS HAVE 3 TERMINALS—ALL TRIPLE UNITS HAVE 3 TERMINALS—ONE GROUNDED TO CASE. OTHER UNITS HIGHER OR LOWER VOLTAGES CAN BE SUPPLIED UPON REQUEST.

ARCO ELECTRONICS, INC.

EL - M E N C O C A P A C I T O R S

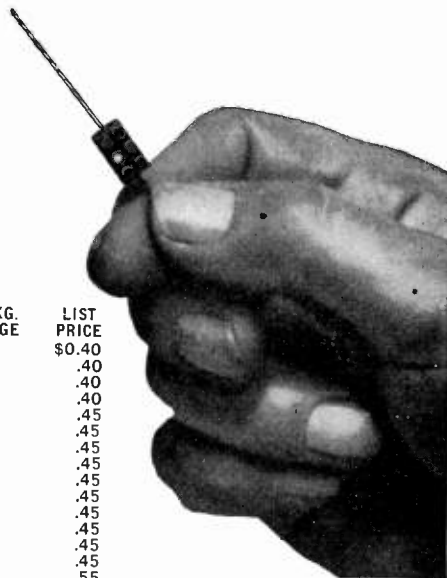
MINIATURE MICA CAPACITORS

Known the world over for their reliability under all operating conditions, EL-MENCO CAPACITORS are chosen by manufacturers who want successful performance and long life from their products.

**SMALLER THAN YOUR FINGERNAIL
BUT SKY HIGH IN PERFORMANCE**

EL-MENCO fixed mica dielectric capacitors are compact, precision made. Manufactured in accordance with American military standards to meet Army and Navy JAN-C-5 Specifications. All impregnated and JAN, RMA and RCM color coded. Standard specification limits are shown below.

Moulded in low loss bakelite, tested at double the working voltage. Tests for dielectric strength, insulation resistance, temperature co-efficient and capacitance drift, humidity and life tests according to JAN and RCM STANDARDS. All units are wax dipped for salt water immersion seal.



TYPE CM-15

| TYPE DESIGNATION | CAP. MMF. | DC WKG. VOLTAGE | LIST PRICE | TYPE DESIGNATION | CAP. MMF. | DC WKG. VOLTAGE | LIST PRICE |
|------------------|-----------|-----------------|------------|------------------|-----------|-----------------|------------|
| CM-15-E-010-M | 1 | 500 | \$0.50 | CM-15-E-750-J | 75 | 500 | \$0.40 |
| CM-15-E-020-M | 2 | 500 | .50 | CM-15-E-820-J | 82 | 500 | .40 |
| CM-15-E-030-M | 3 | 500 | .50 | CM-15-E-910-J | 91 | 500 | .40 |
| CM-15-E-050-K | 5 | 500 | .40 | CM-15-E-101-J | 100 | 500 | .40 |
| CM-15-E-010-J | 10 | 500 | .40 | CM-15-E-111-J | 110 | 500 | .45 |
| CM-15-E-120-J | 12 | 500 | .40 | CM-15-E-121-J | 120 | 500 | .45 |
| CM-15-E-150-J | 15 | 500 | .40 | CM-15-E-131-J | 130 | 500 | .45 |
| CM-15-E-180-J | 18 | 500 | .40 | CM-15-E-151-J | 150 | 500 | .45 |
| CM-15-E-200-J | 20 | 500 | .40 | CM-15-E-161-J | 160 | 500 | .45 |
| CM-15-E-220-J | 22 | 500 | .40 | CM-15-E-181-J | 180 | 500 | .45 |
| CM-15-E-240-J | 24 | 500 | .40 | CM-15-E-201-J | 200 | 500 | .45 |
| CM-15-E-270-J | 27 | 500 | .40 | CM-15-E-221-J | 220 | 500 | .45 |
| CM-15-E-300-J | 30 | 500 | .40 | CM-15-E-241-J | 240 | 500 | .45 |
| CM-15-E-330-J | 33 | 500 | .40 | CM-15-E-251-J | 250 | 500 | .45 |
| CM-15-E-360-J | 36 | 500 | .40 | CM-15-E-271-J | 270 | 500 | .55 |
| CM-15-E-390-J | 39 | 500 | .40 | CM-15-E-301-J | 300 | 500 | .55 |
| CM-15-E-430-J | 43 | 500 | .40 | CM-15-E-331-J | 330 | 500 | .55 |
| CM-15-E-470-J | 47 | 500 | .40 | CM-15-E-361-J | 360 | 500 | .55 |
| CM-15-E-500-J | 50 | 500 | .40 | CM-15-E-391-J | 390 | 500 | .65 |
| CM-15-E-510-J | 51 | 500 | .40 | CM-15-E-431-J | 430 | 500 | .70 |
| CM-15-E-560-J | 56 | 500 | .40 | CM-15-E-471-J | 470 | 300 | .70 |
| CM-15-E-620-J | 62 | 500 | .40 | CM-15-E-501-J | 500 | 300 | .70 |
| CM-15-E-680-J | 68 | 500 | .40 | CM-15-E-511-J | 510 | 300 | .70 |

All the above are silver mica only. Temperature Co-efficient: 50 Parts per Million per degree C. (Characteristic "E"). Standard Tolerance: $\pm 5\%$. Closest Tolerance: ± 5 mmfd.

Actual Size
9/32" x 1/2" x 3/16".
For Television, Radio and other
Electronic Applications.
2 - 420 mmf. cap. at 500v DCA.
2 - 535 mmf. cap. at 300v DCA.
Temperature Co-efficient ± 50
parts per million per degree
C for most capacity values.
6-dot color coded.

Special! — HANDY KIT

Don't Get Caught Short...

FOR EXPERIMENTAL WORK

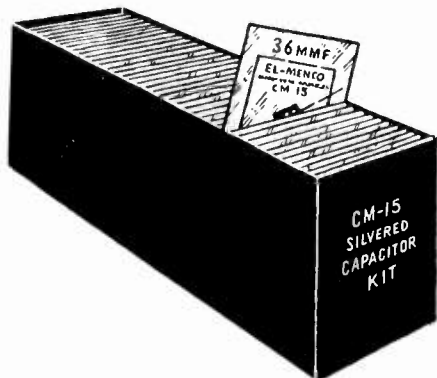
ALWAYS HAVE THE CORRECT CAPACITY ON HAND

This Handy Kit consists of 46 most commonly used Capacitors... five of each capacity packed in moisture-proof transparent cellophane envelope, properly identified for permanent use.

YOUR PRICE ONLY \$50⁰⁰

The complete set of capacitors amounts to \$106.00 at list prices. You get the entire set during this introductory offer, for *only* \$50.00 net. On orders of 5 or 10 sets you get corresponding discounts on this reduced cost!

5 sets (5% discount) Only \$47.50 each!
10 sets (10% discount) Only \$45.00 each!
COMPARE COST!

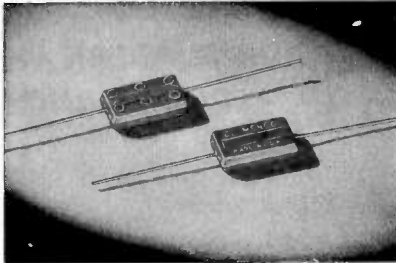


THESE MINIATURES FIT INTO THE SMALLEST AREA CAPACITOR SIZE (9/32" x 1/2" x 3/16")

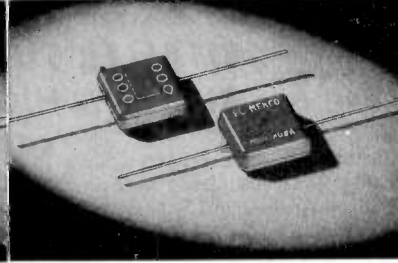
ARCO ELECTRONICS, INC.

E L - M E N C O C A P A C I T O R S

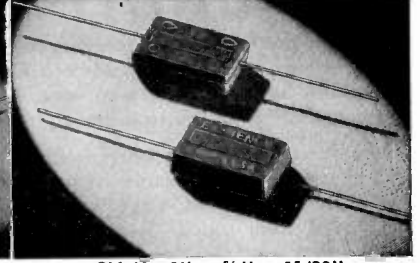
MICA CAPACITORS



CM-19—11/16" x 7/16" x 7/32"
 CM-20—25/32" x 7/16" x 7/32"
 CM-25—7/16" x 1-7/64" x 7/32"



CM-30—13/16" x 13/16" x 9/32"
 CM-35—13/16" x 13/16" x 11/32"



CM-40—1" x 5/8" x 11/32"

CM-19 & CM-20

| TYPE DESIGNATION | CAP. MMF. | DC WKG. VOLTAGE | LIST PRICE | |
|------------------|-----------|-----------------|--------------|---------------|
| | | | REGULAR MICA | SILVERED MICA |
| CM-20-050 | 5 | 500 | \$0.25 | \$0.40 |
| CM-20-100 | 10 | 500 | .25 | .40 |
| CM-20-120 | 12 | 500 | .25 | .40 |
| CM-20-150 | 15 | 500 | .25 | .40 |
| CM-20-180 | 18 | 500 | .25 | .40 |
| CM-20-200 | 20 | 500 | .25 | .40 |
| CM-20-220 | 22 | 500 | .25 | .40 |
| CM-20-240 | 24 | 500 | .25 | .40 |
| CM-20-270 | 27 | 500 | .25 | .40 |
| CM-20-300 | 30 | 500 | .25 | .40 |
| CM-20-330 | 33 | 500 | .20 | .40 |
| CM-20-360 | 36 | 500 | .20 | .40 |
| CM-20-390 | 39 | 500 | .20 | .40 |
| CM-20-430 | 43 | 500 | .20 | .40 |
| CM-20-470 | 47 | 500 | .20 | .40 |
| CM-20-500 | 50 | 500 | .20 | .40 |
| CM-20-510 | 51 | 500 | .20 | .40 |
| CM-20-560 | 56 | 500 | .20 | .40 |
| CM-20-620 | 62 | 500 | .20 | .40 |
| CM-20-680 | 68 | 500 | .20 | .40 |
| CM-20-750 | 75 | 500 | .20 | .40 |
| CM-20-820 | 82 | 500 | .20 | .40 |
| CM-20-910 | 91 | 500 | .20 | .40 |
| CM-20-101 | 100 | 500 | .20 | .40 |
| CM-20-111 | 110 | 500 | .20 | .45 |
| CM-20-121 | 120 | 500 | .20 | .45 |
| CM-20-131 | 130 | 500 | .20 | .45 |
| CM-20-151 | 150 | 500 | .20 | .45 |
| CM-20-161 | 160 | 500 | .20 | .45 |
| CM-20-181 | 180 | 500 | .20 | .45 |
| CM-20-201 | 200 | 500 | .20 | .45 |
| CM-20-221 | 220 | 500 | .20 | .45 |
| CM-20-241 | 240 | 500 | .25 | .55 |
| CM-20-251 | 250 | 500 | .25 | .55 |
| CM-20-271 | 270 | 500 | .25 | .55 |
| CM-20-301 | 300 | 500 | .25 | .55 |
| CM-20-331 | 330 | 500 | .25 | .55 |
| CM-20-361 | 360 | 500 | .25 | .55 |
| CM-20-391 | 390 | 500 | .25 | .65 |
| CM-20-431 | 430 | 500 | .25 | .65 |
| CM-20-471 | 470 | 500 | .25 | .70 |
| CM-20-501 | 500 | 500 | .25 | .70 |
| CM-20-511 | 510 | 500 | .25 | .70 |
| CM-20-561 | 560 | 500 | .25 | .75 |
| CM-20-621 | 620 | 500 | .30 | .80 |
| CM-20-681 | 680 | 500 | .30 | .85 |
| CM-20-751 | 750 | 500 | .30 | .90 |
| CM-20-821 | 820 | 500 | .30 | .95 |
| CM-20-911 | 910 | 500 | .35 | 1.00 |
| CM-20-102 | 1000 | 500 | .35 | 1.10 |
| CM-20-112† | 1100 | 500 | .45 | 1.20 |
| CM-20-122† | 1200 | 500 | .45 | 1.30 |
| CM-20-132† | 1300 | 500 | .45 | 1.40 |
| CM-20-152† | 1500 | 500 | .50 | 1.50 |
| CM-20-162† | 1600 | 500 | .50 | 1.60 |
| CM-20-182† | 1800 | 500 | .60 | 1.70 |

CM-25, CM-30, CM-35 & CM-40

| TYPE DESIGNATION | CAP. MMF. | DC WKG. VOLTAGE | LIST PRICE | |
|------------------|-----------|-----------------|--------------|---------------|
| | | | REGULAR MICA | SILVERED MICA |
| CM-25-471 | 470 | 500 | \$0.25 | \$0.70 |
| CM-25-511 | 510 | 500 | .25 | .70 |
| CM-25-561 | 560 | 500 | .25 | .75 |
| CM-25-621 | 620 | 500 | .30 | .80 |
| CM-25-681 | 680 | 500 | .30 | .85 |
| CM-25-751 | 750 | 500 | .30 | .90 |
| CM-25-821 | 820 | 500 | .30 | .95 |
| CM-25-911 | 910 | 500 | .35 | 1.00 |
| CM-25-102 | 1000 | 500 | .35 | 1.10 |
| CM-25-112 | 1100 | 500 | .45 | 1.20 |
| CM-25-122 | 1200 | 500 | .45 | 1.30 |
| CM-25-132 | 1300 | 500 | .45 | 1.40 |
| CM-25-152 | 1500 | 500 | .50 | 1.50 |
| CM-25-162 | 1600 | 500 | .50 | 1.60 |
| CM-25-182 | 1800 | 500 | .60 | 1.70 |
| CM-25-202 | 2000 | 500 | .65 | 1.80 |
| CM-30-621 | 620 | 500 | .25 | .80 |
| CM-30-681 | 680 | 500 | .25 | .85 |
| CM-30-751 | 750 | 500 | .25 | .90 |
| CM-30-821 | 820 | 500 | .25 | .95 |
| CM-30-911 | 910 | 500 | .25 | 1.00 |
| CM-30-102 | 1000 | 500 | .30 | 1.10 |
| CM-30-112 | 1100 | 500 | .30 | 1.10 |
| CM-30-122 | 1200 | 500 | .30 | 1.25 |
| CM-30-130 | 1300 | 500 | .30 | 1.25 |
| CM-30-152 | 1500 | 500 | .30 | 1.35 |
| CM-30-162 | 1600 | 500 | .40 | 1.35 |
| CM-30-182 | 1800 | 500 | .40 | 1.50 |
| CM-30-202 | 2000 | 500 | .40 | 1.50 |
| CM-30-222 | 2200 | 500 | .40 | 1.50 |
| CM-30-242 | 2400 | 500 | .45 | 1.80 |
| CM-30-252 | 2500 | 500 | .45 | 1.80 |
| CM-30-272 | 2700 | 500 | .45 | 1.90 |
| CM-30-302 | 3000 | 500 | .50 | 2.05 |
| CM-30-332 | 3300 | 500 | .50 | 2.05 |
| CM-30-362 | 3600 | 500 | .55 | 2.10 |
| CM-30-392 | 3900 | 500 | .55 | 2.15 |
| CM-30-432 | 4300 | 500 | .55 | 2.15 |
| CM-30-472 | 4700 | 500 | .55 | 2.15 |
| CM-30-502 | 5000 | 500 | .60 | 2.25 |
| CM-30-512 | 5100 | 500 | .60 | 2.25 |
| CM-30-562 | 5600 | 500 | .60 | 2.50 |
| CM-35-622* | 6200 | 300 | .75 | 2.75 |
| CM-35-682* | 6800 | 300 | .80 | 3.00 |
| CM-35-752* | 7500 | 300 | .90 | 3.25 |
| CM-35-822* | 8200 | 300 | 1.00 | 3.50 |
| CM-35-912* | 9100 | 300 | 1.00 | 4.00 |
| CM-35-103* | 10000 | 300 | 1.20 | 4.00 |
| CM-40-822* | 8200 | 300 | 1.00 | 3.50 |
| CM-40-912* | 9100 | 300 | 1.00 | 4.00 |
| CM-40-103* | 10000 | 300 | 1.20 | 4.00 |
| CM-40-123 | 12000 | 300 | 1.40 | 4.50 |
| CM-40-153 | 15000 | 300 | 1.70 | 5.25 |

All capacitors above with exception of those indicated by † can be ordered in CM-19 or CM-20 Cases.

ON ALL UNITS LISTED ABOVE: Regular Mica supplied in "A" and "B" Characteristic at List Price. Silvered Mica in CM-19 and CM-20 Cases supplied in "C" and "D" Characteristic at List Price. Silvered Mica in CM-25, CM-30, CM-35 and CM-40 supplied in "C", "D", and "E" Characteristic at List Prices.

STANDARD TOLERANCE

| | |
|------------------------------|-----|
| Regular MICA | 20% |
| Silvered MICA | 5% |
| (closest tolerance .5 mmfd.) | |

PRICES OF OTHER AVAILABLE TOLERANCES

REGULAR MICA CAPACITORS

| | |
|--------------------|-----------------------|
| For 20% (Standard) | Use List Price |
| For 10% | add 10% to List Price |
| For 5% | add 20% to List Price |

SILVER MICA CAPACITORS

| | |
|-------------------|-----------------------|
| For 5% (Standard) | Use List Price |
| For 3% | add 10% to List Price |
| For 2% | add 15% to List Price |
| For 1% | add 25% to List Price |

NOTE: For any RMA size not shown in above listings, figure price to the nearest capacity.

ARCO ELECTRONICS, INC.

EL - M E N C O C A P A C I T O R S

TELEVISION • TRANSMITTING • INDUSTRIAL HIGH VOLTAGE MICA CAPACITORS

DC WORKING VOLTAGES: FROM 1000 TO 3000 VOLTS

Molded in CM-20, CM-35, and CM-40 Cases

Demand for smaller units in higher voltages designed to meet the requirements for TELEVISION, POWER AMPLIFIERS, LOW POWER TRANSMITTERS, and various INDUSTRIAL USES has increased. EL-MENCO designed and produced units listed below are especially adaptable to compact circuits where space is an important factor. Their acceptance has been overwhelming by the various manufacturers of TELEVISION RECEIVERS.

In many cases, these units will do the work of capacitors molded in CM-45, CM-50, and CM-55 cases without breaking down. NO SPECIAL MOUNTINGS ARE NECESSARY; just wire right into the circuit.

The capacitors are molded in low-loss bakelite and tested at double the branded voltage. They are tested for dielectric strength, insulation resistance, temperature coefficient, capacitance drift, susceptibility to humidity, and length of life, according to RCM Standards. All units are wax-dipped for protection against salt water immersion.

VCM-20

| TYPE DESIGNATION | CAP. MMF. | 6000 VDC | 5000 VDC | 4000 VDC | 3000 VDC | 2000 VDC |
|------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | TEST | TEST | TEST | TEST | TEST |
| | | 3000 VDC | 2500 VDC | 2000 VDC | 1500 VDC | 1000 VDC |
| | | WKG. LIST PRICE | WKG. LIST PRICE | WKG. LIST PRICE | WKG. LIST PRICE | WKG. LIST PRICE |
| VCM-20-B-050 | 5 | \$0.30 | | | | |
| VCM-20-B-100 | 10 | .30 | | | | |
| VCM-20-B-120 | 12 | .30 | | | | |
| VCM-20-B-150 | 15 | .35 | \$0.30 | | | |
| VCM-20-B-180 | 18 | .35 | .30 | | | |
| VCM-20-B-200 | 20 | .35 | .30 | | | |
| VCM-20-B-220 | 22 | .35 | .30 | | | |
| VCM-20-B-240 | 24 | .35 | .30 | | | |
| VCM-20-B-270 | 27 | .35 | .30 | | | |
| VCM-20-B-300 | 30 | .40 | .35 | | | |
| VCM-20-B-330 | 33 | .40 | .35 | | | |
| VCM-20-B-360 | 36 | .45 | .35 | | | |
| VCM-20-B-390 | 39 | .45 | .35 | | | |
| VCM-20-B-430 | 43 | .45 | .35 | | | |
| VCM-20-B-470 | 47 | .45 | .35 | \$0.30 | | |
| VCM-20-B-500 | 50 | .50 | .35 | .35 | | |
| VCM-20-B-510 | 51 | .50 | .35 | .35 | | |
| VCM-20-B-560 | 56 | .50 | .35 | .35 | | |
| VCM-20-B-620 | 62 | .50 | .35 | .35 | | |
| VCM-20-B-680 | 68 | .55 | .40 | .35 | | |
| VCM-20-B-750 | 75 | .60 | .45 | .35 | \$0.30 | |
| VCM-20-B-820 | 82 | .60 | .45 | .35 | .30 | |
| VCM-20-B-910 | 91 | .65 | .45 | .35 | .35 | |
| VCM-20-B-101 | 100 | .70 | .45 | .35 | .35 | |
| VCM-20-B-111 | 110 | .70 | .50 | .40 | .35 | |
| VCM-20-B-121 | 120 | | .50 | .40 | .35 | \$0.30 |
| VCM-20-B-131 | 130 | | .50 | .40 | .35 | .30 |
| VCM-20-B-151 | 150 | | .55 | .40 | .35 | .35 |
| VCM-20-B-161 | 160 | | .60 | .45 | .35 | .35 |
| VCM-20-B-181 | 180 | | .60 | .45 | .35 | .35 |
| VCM-20-B-201 | 200 | | .65 | .50 | .40 | .35 |
| VCM-20-B-221 | 220 | | .70 | .50 | .40 | .35 |
| VCM-20-B-241 | 240 | | .70 | .55 | .40 | .35 |
| VCM-20-B-251 | 250 | | | .55 | .45 | .40 |
| VCM-20-B-271 | 270 | | | .55 | .45 | .40 |
| VCM-20-B-301 | 300 | | | .60 | .50 | .40 |
| VCM-20-B-331 | 330 | | | .65 | .50 | .40 |
| VCM-20-B-361 | 360 | | | .65 | .50 | .40 |
| VCM-20-B-391 | 390 | | | .70 | .55 | .40 |
| VCM-20-B-431 | 430 | | | .75 | .55 | .45 |
| VCM-20-B-471 | 470 | | | .60 | .45 | .45 |
| VCM-20-B-501 | 500 | | | .60 | .45 | .45 |
| VCM-20-B-511 | 510 | | | .60 | .45 | .45 |
| VCM-20-B-561 | 560 | | | .65 | .50 | .45 |
| VCM-20-B-621 | 620 | | | .70 | .50 | .45 |
| VCM-20-B-681 | 680 | | | .55 | .45 | .45 |
| VCM-20-B-721 | 750 | | | .55 | .45 | .45 |
| VCM-20-B-821 | 820 | | | .55 | .45 | .45 |
| VCM-20-B-911 | 910 | | | .65 | .50 | .45 |
| VCM-20-B-102 | 1000 | | | .70 | .50 | .45 |

VCM-35 & VCM-40

| TYPE DESIGNATION | CAP. MMF. | 6000 VDC | 5000 VDC | 4000 VDC | 3000 VDC | 2000 VDC |
|------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | TEST | TEST | TEST | TEST | TEST |
| | | 3000 VDC | 2500 VDC | 2000 VDC | 1500 VDC | 1000 VDC |
| | | WKG. LIST PRICE | WKG. LIST PRICE | WKG. LIST PRICE | WKG. LIST PRICE | WKG. LIST PRICE |
| VCM-40-B-121 | 120 | \$0.50 | | | | |
| VCM-40-B-151 | 150 | .55 | | | | |
| VCM-40-B-161 | 160 | .60 | | | | |
| VCM-40-B-181 | 180 | .60 | | | | |
| VCM-40-B-221 | 200 | .65 | | | | |
| VCM-40-B-241 | 240 | .70 | | | | |
| VCM-40-B-251 | 250 | .70 | \$0.55 | | | |
| VCM-40-B-271 | 270 | .70 | .55 | | | |
| VCM-40-B-301 | 300 | .75 | .60 | | | |
| VCM-40-B-331 | 330 | .80 | .60 | | | |
| VCM-40-B-361 | 360 | .85 | .65 | | | |
| VCM-40-B-391 | 390 | .90 | .70 | | | |
| VCM-40-B-431 | 430 | 1.00 | .70 | \$0.60 | | |
| VCM-40-B-471 | 470 | 1.05 | .70 | .65 | | |
| VCM-40-B-501 | 500 | 1.10 | .75 | .65 | | |
| VCM-40-B-511 | 510 | 1.10 | .75 | .65 | | |
| VCM-40-B-561 | 560 | 1.20 | .80 | .65 | | |
| VCM-40-B-621 | 620 | 1.25 | .85 | .70 | | |
| VCM-40-B-681 | 680 | 1.35 | .90 | .70 | \$0.65 | |
| VCM-40-B-821 | 820 | 1.55 | 1.00 | .80 | .75 | |
| VCM-40-B-911 | 910 | | 1.10 | .85 | .80 | |
| VCM-40-B-102 | 1000 | | 1.20 | .95 | .80 | |
| VCM-40-B-112 | 1100 | | 1.20 | 1.00 | .85 | \$0.55 |
| VCM-40-B-122 | 1200 | | 1.30 | 1.05 | .95 | .60 |
| VCM-40-B-132 | 1300 | | 1.40 | 1.10 | 1.00 | .60 |
| VCM-40-B-152 | 1500 | | 1.60 | 1.25 | 1.10 | .65 |
| VCM-40-B-162 | 1600 | | 1.70 | 1.30 | 1.10 | .70 |
| VCM-40-B-182 | 1800 | | | 1.40 | 1.25 | .70 |
| VCM-40-B-202 | 2000 | | | 1.55 | 1.35 | .75 |
| VCM-40-B-222 | 2200 | | | | 1.40 | .85 |
| VCM-40-B-242 | 2400 | | | | 1.55 | .90 |
| VCM-40-B-272 | 2700 | | | | | .90 |
| VCM-40-B-302 | 3000 | | | | | 1.00 |
| VCM-40-B-332 | 3300 | | | | | 1.05 |
| VCM-40-B-362 | 3600 | | | | | 1.15 |
| VCM-40-B-392 | 3900 | | | | | 1.20 |
| VCM-40-B-432 | 4300 | | | | | 1.30 |
| VCM-40-B-472 | 4700 | | | | | 1.40 |
| VCM-40-B-502 | 5000 | | | | | 1.45 |
| VCM-40-B-512 | 5100 | | | | | 1.45 |

All of the above units can be obtained, on request, in CM-35 cases, at 10% above list price.

All units supplied in "A" or "B" Characteristic at list price. Case Size Dimensions (See page P-93 for illustrations):
VCM-20— $\frac{3}{8}$ " x $\frac{7}{16}$ " x $\frac{3}{32}$ " VCM-35— $\frac{1}{2}$ " x $\frac{1}{8}$ " x $\frac{1}{16}$ "
VCM-40—1" x $\frac{5}{8}$ " x $\frac{3}{16}$ "

Standard Tolerance: $\pm 20\%$.

Prices will be quoted for closer tolerances in "Silvered" mica upon request.

ARCO ELECTRONICS, INC.

EL - M E N C O C A P A C I T O R S

PAPER TUBULAR CAPACITORS CP TYPE



MINERAL OIL IMPREGNATION
NON-INDUCTIVE WINDING
SYNTHETIC RESIN END SEALS
STEATITE CASE

EL-MENCO CP type paper tubular capacitors are sealed into STEATITE CERAMIC TUBES which serve to insulate the capacitor electrically as well as against moisture and heat. The capacitor insert is impregnated with MINERAL OIL, thereby assuring long life at 85° C operating conditions. This feature insures successful operation at the high ambient temperatures existing in small, compact enclosures.

The NON-INDUCTIVELY wound paper and foil units are sealed in the CERAMIC TUBES by means of baked SYNTHETIC RESIN END FILLS which cannot melt at any conceivable operating temperature. The end fills will not dissolve in wax, permitting the capacitors to be potted without damage to the insert. Leads are of tinned copper wire 2 1/4" long.

Many of the large TELEVISION, TRANSMITTER AND HIGH VOLTAGE AMPLIFIER manufacturers have found these capacitors to be of highest quality. Breakdown tests have exceeded the required standards.

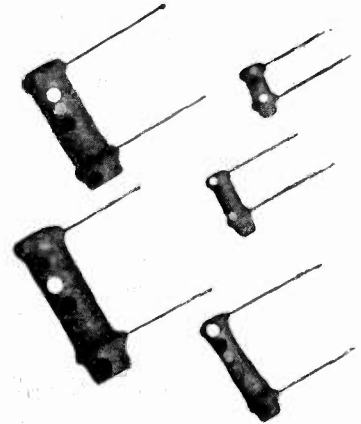
| CAPACITY MFD. | 1600 WVDC | | 1000 WVDC | | 600 WVDC | | 400 WVDC | | 200 WVDC | |
|------------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
| | PART NUMBER | LIST PRICE | PART NUMBER | LIST PRICE | PART NUMBER | LIST PRICE | PART NUMBER | LIST PRICE | PART NUMBER | LIST PRICE |
| .001 | CP-3-102 | \$.50 | CP-2-102 | \$.40 | CP-1-102 | \$.25 | | | | |
| .0015 | CP-3-152 | .50 | CP-2-152 | .40 | CP-1-152 | .25 | | | | |
| .002 | CP-3-202 | .50 | CP-2-202 | .40 | CP-1-202 | .25 | | | | |
| .0022 | CP-3-222 | .50 | CP-2-222 | .40 | CP-1-222 | .25 | | | | |
| .0025 | CP-3-252 | .50 | CP-2-252 | .40 | CP-1-252 | .25 | | | | |
| .003 | CP-3-302 | .50 | CP-3-302 | .40 | CP-1-302 | .25 | | | | |
| .0033 | CP-3-332 | .50 | CP-3-332 | .40 | CP-1-332 | .25 | | | | |
| .004 | CP-3-402 | .50 | CP-3-402 | .40 | CP-1-402 | .25 | | | | |
| .0047 | CP-4-472 | .50 | CP-3-472 | .45 | CP-1-472 | .25 | | | | |
| .005 | CP-4-502 | .50 | CP-3-502 | .45 | CP-1-502 | .25 | | | | |
| .006 | CP-4-602 | .50 | CP-3-602 | .45 | CP-2-602 | .25 | | | | |
| .0068 | CP-4-682 | .60 | CP-3-682 | .45 | CP-2-682 | .25 | | | | |
| .0075 | CP-5-752 | .60 | CP-3-752 | .45 | CP-2-752 | .30 | | | | |
| .01 | CP-5-103 | .60 | CP-3-103 | .45 | CP-2-103 | .30 | | | | |
| .015 | CP-5-153 | .60 | CP-4-153 | .50 | CP-2-153 | .30 | | | | |
| .02 | CP-6-203 | .60 | CP-5-203 | .50 | CP-3-203 | .30 | CP-2-203 | \$.25 | | |
| .022 | CP-6-223 | .60 | CP-5-223 | .50 | CP-3-223 | .30 | CP-3-223 | .30 | | |
| .025 | CP-6-253 | .60 | CP-5-253 | .50 | CP-4-253 | .35 | CP-3-253 | .30 | | |
| .03 | CP-6-303 | .60 | CP-5-303 | .50 | CP-4-303 | .35 | CP-3-303 | .30 | | |
| .033 | CP-6-333 | .65 | CP-5-333 | .60 | CP-4-333 | .35 | CP-3-333 | .30 | | |
| .04 | | | CP-6-403 | .60 | CP-4-403 | .35 | CP-3-403 | .30 | | |
| .047 | | | CP-6-473 | .60 | CP-4-473 | .35 | CP-4-473 | .30 | | |
| .05 | | | CP-6-503 | .60 | CP-4-503 | .40 | CP-4-503 | .30 | | |
| .056 | | | CP-6-563 | .65 | CP-5-563 | .40 | CP-4-563 | .30 | | |
| .068 | | | | | CP-6-683 | .40 | CP-4-683 | .35 | | |
| .075 | | | | | CP-6-753 | .45 | CP-5-753 | .35 | | |
| .1 | | | | | CP-6-104 | .45 | CP-5-104 | .35 | CP-4-104 | \$.35 |
| .15 | | | | | | | CP-6-154 | .40 | CP-4-154 | .40 |
| .22 | | | | | | | CP-6-224 | .45 | CP-5-224 | .40 |
| .25 | | | | | | | CP-6-254 | .45 | CP-5-254 | .40 |
| .33 | | | | | | | | | CP-6-334 | .50 |
| .47 | | | | | | | | | CP-6-474 | .60 |
| .5 | | | | | | | | | CP-6-504 | .60 |

STANDARD TOLERANCE ON
ABOVE UNITS IS ± 20%.
FOR ± 10% TOLERANCE
ADD 15% TO LIST PRICE.

DIMENSIONS FOR CP TYPE CAPACITORS

| | DIAMETER | LENGTH |
|------|----------|--------|
| CP-1 | 3/8" | 1 1/8" |
| CP-2 | 3/8" | 1 3/8" |
| CP-3 | 3/8" | 1 5/8" |
| CP-4 | 3/8" | 1 7/8" |
| CP-5 | 3/8" | 2 1/8" |
| CP-6 | 3/8" | 2 3/8" |

SILVER CERAMIC HIGH "K" CAPACITORS



Bypass and Coupling Capacitors

Wax Impregnated, Low-Loss PHENOLIC COATING. Insulation Resistance: 10,000 Megohms Minimum. 90% Relative Humidity Test for 100 Hours. RADIAL LEADS of No. 22 Tinned Copper Wire 1 1/4" Minimum. RMA COLOR CODED. STANDARD TOLERANCE ± 20%. 1000 VDC Test, 500 VDC Working. Meets Requirements of RMA Standards.

| TYPE DESIGNATION | CAP. MMF. | SIZE | | LIST PRICE |
|---------------------|--------------|--------|-------|---------------|
| | | LENGTH | DIAM. | |
| CC-1-100 | 10 | 3/8" | .250" | \$.25 |
| CC-1-150 | 15 | 3/8" | .250" | .25 |
| CC-1-250 | 25 | 3/8" | .250" | .25 |
| CC-1-400 | 40 | 3/8" | .250" | .25 |
| CC-1-500 | 50 | 3/8" | .250" | .25 |
| CC-1-820 | 82 | 3/8" | .250" | .25 |
| CC-1-101 | 100 | 3/8" | .250" | .25 |
| CC-1-151 | 150 | 3/8" | .250" | .25 |
| CC-1-201 | 200 | 3/8" | .250" | .25 |
| CC-1-251 | 250 | 3/8" | .250" | .25 |
| CC-1-301 | 300 | 3/8" | .250" | .25 |
| CC-1-401 | 400 | 3/8" | .250" | .25 |
| CC-1-501 | 500 | 3/8" | .250" | .25 |
| CC-2-751 | 750 | 3/4" | .250" | .25 |
| CC-2-102 | 1000 | 3/4" | .250" | .25 |
| CC-2-122 | 1200 | 3/4" | .250" | .25 |
| CC-2-152 | 1500 | 3/4" | .250" | .25 |
| CC-2-202 | 2000 | 3/4" | .250" | .25 |
| CC-3-252 | 2500 | 1 1/8" | .350" | .30 |
| CC-3-302 | 3000 | 1 1/8" | .350" | .30 |
| CC-3-402 | 4000 | 1 1/8" | .350" | .35 |
| CC-4-502 | 5000 | 1" | .350" | .40 |
| CC-4-682 | 6800 | 1" | .350" | .40 |
| CC-5-752 | 7500 | 1.20" | .350" | .45 |
| CC-5-103 | 10000 | 1.20" | .350" | .50 |
| CC-6-123 | 12000 | 1.325" | .350" | .50 |

ARCO ELECTRONICS, INC.

E L - M E N C O C A P A C I T O R S

Single and Dual PADDERS

EL-MENCO PADDING CONDENSERS have been acclaimed by engineers as the finest development in adjustable mica condensers.

The construction is such as to completely enclose and protect the delicate edges of the mica films, made of the finest quality clear India ruby mica.

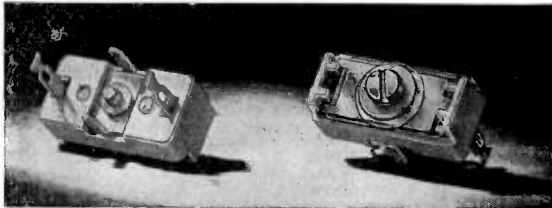
The phosphor bronze adjusting plates assure permanent resilience and freedom from mechanical fatigue. All parts are heavily plated to resist corrosion.

TYPE 30

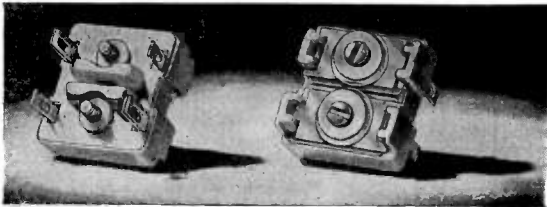
350 Volts DC Flash-Test — 175 WVDC

| PART NUMBER | NUMBER OF PLATES | GUARANTEED RANGE | | LIST PRICE |
|-------------|------------------|---|--|------------|
| | | At 1½ Inch Pounds Cap. Will Be More Than MMF. | At 2½ Turns Open Cap. Will Be Less Than MMF. | |
| 302 | 2 Pl. | 180 | 15 | \$0.55 |
| 303 | 3 pl. | 340 | 65 | .60 |
| 304 | 4 Pl. | 550 | 100 | .65 |
| 305 | 5 Pl. | 760 | 190 | .75 |
| 306 | 6 Pl. | 970 | 275 | .80 |
| 307 | 7 Pl. | 1180 | 350 | .85 |
| 308 | 8 Pl. | 1390 | 450 | .90 |
| 309 | 9 Pl. | 1600 | 550 | 1.00 |
| 310 | 10 Pl. | 1890 | 650 | 1.10 |
| 311 | 11 Pl. | 2110 | 780 | 1.15 |
| 312 | 12 Pl. | 2330 | 880 | 1.20 |
| 313 | 13 Pl. | 2605 | 1150 | 1.30 |
| 314 | 14 Pl. | 2830 | 1300 | 1.35 |
| 315 | 15 Pl. | 3055 | 1400 | 1.40 |

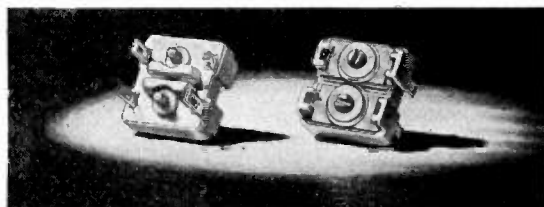
Screw is insulated from top plate by mica washer. Above maximum capacity values are based on using 1½ to 1¾ Mil Mica films.



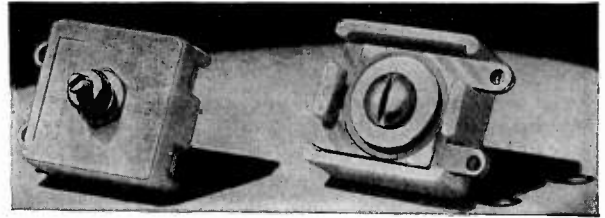
TYPE 58 PADDER 1.000" x .468"



TYPE 50 DUAL PADDER
(will fit any size shield having dimensions exceeding 1-1/16" x 1-1/16")



TYPE 60 DUAL PADDER
(will fit any size shield having dimensions exceeding ¾" x ¾")



TYPE 30 AND TYPE 30-M PADDER 7/8" x 15/16"

TYPE 30-M

1000 Volts DC Flash-Test — 500 Working Volts DC

| PART NUMBER | NUMBER OF PLATES | GUARANTEED RANGE | | LIST PRICE |
|-------------|------------------|---|--|------------|
| | | At 1½ Inch Pounds Cap. Will Be More Than MMF. | At 2½ Turns Open Cap. Will Be Less Than MMF. | |
| 302-M | 2 Pl. | 120 | 15 | \$0.55 |
| 303-M | 3 Pl. | 320 | 65 | .60 |
| 304-M | 4 Pl. | 500 | 100 | .70 |
| 305-M | 5 Pl. | 690 | 180 | .75 |
| 306-M | 6 Pl. | 880 | 265 | .80 |
| 307-M | 7 Pl. | 1070 | 340 | .90 |
| 308-M | 8 Pl. | 1260 | 425 | .95 |
| 309-M | 9 Pl. | 1415 | 525 | 1.00 |
| 310-M | 10 Pl. | 1600 | 615 | 1.10 |
| 311-M | 11 Pl. | 1785 | 780 | 1.15 |
| 312-M | 12 Pl. | 1970 | 800 | 1.25 |
| 313-M | 13 Pl. | 2155 | 1000 | 1.30 |
| 314-M | 14 Pl. | 2340 | 1100 | 1.35 |
| 315-M | 15 Pl. | 2525 | 1200 | 1.45 |

Screw is insulated from top plate by mica washer. Above maximum capacity values are based on using 2 to 2¼ Mil Mica.

| PART NUMBER | NUMBER OF PLATES | GUARANTEED RANGE | | LIST PRICE |
|-------------|------------------|--------------------------------------|---|------------|
| | | At Tight Cap. Will Be More Than MMF. | At 2 Turns Open Cap. Will Be Less Than MMF. | |
| 582 | 2 Pl. | 80 | 7.5 | \$0.40 |
| 583 | 3 Pl. | 160 | 19 | .45 |
| 584 | 4 Pl. | 240 | 50 | .50 |

← TYPE 58 Padder is a single variable trimmer section provided with two-pronged staple mounting for attachment to bracket or chassis. Base is made of lowest loss steatite and the mica is India Ruby.

| PART NUMBER | NUMBER OF PLATES | GUARANTEED RANGE | | LIST PRICE |
|-------------|------------------|--------------------------------------|---|------------|
| | | At Tight Cap. Will Be More Than MMF. | At 2 Turns Open Cap. Will Be Less Than MMF. | |
| 502 | 2 Pl. | 80 | 7.5 | \$0.60 |
| 503 | 3 Pl. | 160 | 19 | .70 |
| 504 | 4 Pl. | 240 | 50 | .80 |

← TYPE 50 Dual Padders provide two variable trimmers mounted on a single base. This unit is designed as a tuning component for I.F. transformers; and as such, may be snap-in mounted along with the transformer coil in any size shield having dimensions exceeding 1½" x 1½".

| PART NUMBER | NUMBER OF PLATES | GUARANTEED RANGE | | LIST PRICE |
|-------------|------------------|--------------------------------------|---|------------|
| | | At Tight Cap. Will Be More Than MMF. | At 2 Turns Open Cap. Will Be Less Than MMF. | |
| 602 | 2 Pl. | 55 | 7 | \$0.50 |
| 603 | 3 Pl. | 100 | 15 | .60 |
| 604 | 4 Pl. | 160 | 35 | .70 |

← TYPE 60 Dual Padders provide two variable trimmers mounted on a single base. This unit is designed as a tuning component for I.F. transformers; and as such, may be snap-in mounted along with the transformer coil in any size shield having dimensions exceeding ¾" x ¾".

See page P-96 for Mica Trimmer Capacitors

ARCO ELECTRONICS, INC.

EL-MENCO CAPACITORS

TYPE 46 TRIMMER

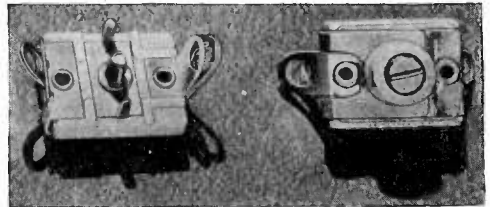
The base is made of the lowest dielectric loss ceramic material available and the mica is clear India Ruby.

The soldering lugs may be bent in any position without affecting capacity setting due to the rigid construction of adjusting plates.

EL-MENCO TRIMMING CONDENSERS are treated for resistance to humidity and for permanence of capacity setting.

Trimmers shown here are standard sizes and capacities.

| TYPE 46W NUMBER PART | PLATES NUMBER OF | GUARANTEED RANGE | | LIST PRICE |
|-------------------------|------------------|--------------------------------------|---|------------|
| | | At Tight Cap. Will Be More Than MMF. | At 2 1/2 Turns Open Cap. Will Be Less Than MMF. | |
| 460 | 1 1/4 Pl. | 15 | 1.5 | \$0.30 |
| 461 | 1 3/4 Pl. | 30 | 2.7 | .30 |
| 462 | 2 Pl. | 80 | 5 | .35 |
| 463 | 3 Pl. | 180 | 9 | .40 |
| 464 | 4 Pl. | 280 | 25 | .45 |
| 465 | 5 Pl. | 380 | 50 | .50 |
| 466 | 6 Pl. | 480 | 80 | .55 |
| 467 | 7 Pl. | 580 | 110 | .60 |
| 468 | 8 Pl. | 680 | 140 | .65 |
| 469 | 9 Pl. | 780 | 170 | .70 |



TYPE 46 TRIMMER 3/4" x 5/8"

Metal Mounting Brackets for these trimmers can be supplied from stock

| | LIST PRICE |
|---------------------------------|------------|
| Bracket for mounting 2 Trimmers | \$0.10 |
| Bracket for mounting 3 Trimmers | .12 |
| Bracket for mounting 4 Trimmers | .14 |
| Bracket for mounting 5 Trimmers | .16 |
| Bracket for mounting 6 Trimmers | .18 |

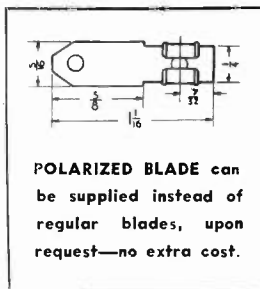
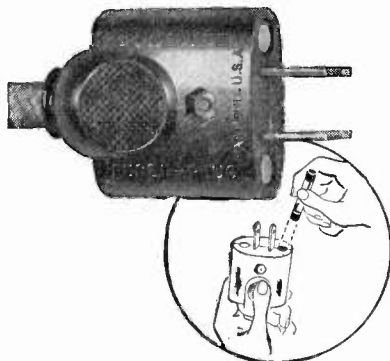
EL-MENCO FUSED PLUG

They're all saying again, "It's a wonder no one thought of it before." Here's a plug that carries its own fuses.

It attaches to the cord just as any standard plug, looks pretty much the same, light-weight, but easier to handle because of finger grips. However, it contains two small fuses, which provide complete protection against damage to the appliance and to the main line.

Blown fuses are easily removable; replacements are available up to 10 amperes.

Fuses Available Wherever Electrical Supplies Are Sold



**REMOVE FUSES
IN A JIFFY**

**REPLACE FUSES
INSTANTLY**

LIST PRICE **35¢**
EACH
LESS FUSES

UNDERWRITERS LABORATORY APPROVED

FUSES

3 AG FUSES (32 VOLTS OR LESS)

| | LIST PRICE |
|--------------------|------------|
| 311005. 5 amp. | \$0.05 |
| 31107.5 7 1/2 amp. | .05 |
| 311010. 10 amp. | .04 |
| 311015 15 amp. | .04 |
| 311020 20 amp. | .035 |
| 311030 30 amp. | .05 |

3 AG FUSES (250 VOLTS OR LESS)

| | |
|--------------------|-----|
| 312.062 1/8 amp. | .15 |
| 312.125 1/4 amp. | .15 |
| 312.250 1/2 amp. | .15 |
| 312.375 3/4 amp. | .15 |
| 312.500 1 amp. | .15 |
| 312.750 1 1/2 amp. | .15 |
| 312001. 1 amp. | .07 |
| 31201.5 1 1/2 amp. | .07 |
| 312002. 2 amp. | .07 |
| 312003. 3 amp. | .07 |
| 312004. 4 amp. | .10 |
| 312005. 5 amp. | .10 |
| 312006. 6 amp. | .10 |

3 AG SLO-BLO FUSES

| | |
|--------------------|-----|
| 313.010 1/100 amp. | .25 |
| 313.032 3/8 amp. | .25 |
| 313.062 1/2 amp. | .25 |
| 313.125 1 amp. | .25 |
| 313.187 1 1/2 amp. | .25 |
| 313.250 2 amp. | .25 |
| 313.375 3 amp. | .25 |
| 313.500 4 amp. | .25 |
| 313.750 5 amp. | .25 |
| 313001. 1 amp. | .25 |
| 31301.5 1 1/2 amp. | .20 |
| 313002. 2 amp. | .20 |
| 313003. 3 amp. | .20 |
| 313005. 5 amp. | .20 |
| 313010. 10 amp. | .20 |
| 313015. 15 amp. | .20 |
| 313020. 20 amp. | .20 |

3 AB TINY-MIGHTY FUSE U/L

| | |
|----------------|-----|
| 314008 8 amp. | .15 |
| 314010 10 amp. | .15 |
| 314012 12 amp. | .15 |
| 314015 15 amp. | .15 |
| 314020 20 amp. | .15 |

AEROVOX

Electrolytic Capacitors

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR



TYPE AEP PLUG-IN ELECTROLYTIC CAPACITORS

Quick change dry electrolytics. Facilitate testing and replacement in equipment where continuity of service is important. Install merely by plugging into standard octal socket. Unit can be inserted only the right way. Key of octal base fits octal socket. Ultra-compact due to use of etched foil for higher capacities in the small can sizes. Aluminum internal construction. Non-corrosive due to use of similar metals throughout. Fully vented for safety.

| Type | Cap. Mfds. x D.C.W.V. | Size D. x H. | List Price | Net Price | Type | Cap. Mfds. x D.C.W.V. | Size D. x H. | List Price | Net Price |
|-----------------------------|-----------------------|---------------|------------|-----------|-------------------------------|-----------------------|---------------|------------|-----------|
| SINGLE-ELEMENT UNITS | | | | | DUAL-ELEMENT UNITS | | | | |
| AEP5A | 25x25 | 1 1/8 x 2 1/2 | \$2.10 | \$1.26 | AEP44D | 20-20x150 | 1 1/8 x 2 1/2 | \$3.10 | \$1.86 |
| AEP4D | 20x150 | 1 1/8 x 2 1/2 | 2.40 | 1.44 | AEP88D | 40-40x150 | 1 1/8 x 2 1/2 | 3.90 | 2.34 |
| AEP8D | 40x150 | 1 1/8 x 2 1/2 | 2.70 | 1.62 | AEP22J | 10-10x450 | 1 1/8 x 2 1/2 | 4.20 | 2.52 |
| AEP2J | 10x450 | 1 1/8 x 2 1/2 | 2.60 | 1.56 | AEP44J | 20-20x450 | 1 1/8 x 2 1/2 | 5.30 | 3.18 |
| AEP3J | 15x450 | 1 1/8 x 2 1/2 | 3.10 | 1.86 | TRIPLE-ELEMENT UNITS | | | | |
| AEP4J | 20x450 | 1 1/8 x 2 1/2 | 3.50 | 2.10 | AEP444D | 20-20-20x150 | 1 1/8 x 2 1/2 | \$4.60 | \$2.76 |
| AEP6J | 30x450 | 1 1/8 x 2 1/2 | 3.80 | 2.28 | AEP88D4A | 40-40x150+20x25 | 1 1/8 x 2 1/2 | 4.80 | 2.88 |
| AEP8J | 40x450 | 1 1/8 x 2 1/2 | 4.50 | 2.70 | AEP222J | 10-10-10x450 | 1 1/8 x 2 1/2 | 5.00 | 3.00 |
| AEP16J | 80x450 | 1 3/8 x 3 1/2 | 7.70 | 4.62 | AEP22J4A | 10-10x450+20x25 | 1 1/8 x 2 1/2 | 4.70 | 2.82 |
| AEP2L | 10x600 | 1 3/8 x 4 1/4 | 3.75 | 2.25 | AEP44J4A | 20-20x450+20x25 | 1 3/8 x 2 1/2 | 5.90 | 3.54 |
| | | | | | QUADRUPL-ELEMENT UNITS | | | | |
| | | | | | AEPG444D4A | 20-20-20x150+20x25* | 1 3/8 x 2 1/2 | \$5.70 | \$3.42 |
| | | | | | AEPG444J4A | 20-20-20x450+20x25* | 1 3/8 x 3 | 8.00 | 4.80 |

*Ground lug provided for cathode connection.

PAPER-WOUND REPLACEMENTS FOR ELECTROLYTICS



TYPE PWP



TYPE PWC

High-grade paper sections in standard inverted screw mounting aluminum can (PWC) or cardboard case (PWP) similar in appearance to electrolytics. Used as replacements for standard electrolytics indicated; applications subjected to high AC component or ripple particularly in first stage of filter circuit; or where excessive surges are encountered. No polarity to be observed. Actual capacity indicated in each case. Capacity is less than electrolytic being replaced but will be found adequate in most filter circuits since filtering capacity in electrolytics is more than generous. PWP has cardboard mounting flanges; PWC similar to the inverted dry electrolytic types.

800v. Surge Pk.-600v. D.C. Work. Type PWC600

| Rep'l.g. Mfds. | Act. | Size-Ins. D. L. | List Price | Net Price |
|----------------|-----------|-----------------|------------|-----------|
| 4 | 2 | 1 3/8 x 4 1/4 | \$2.10 | \$1.26 |
| 8 | 2.75 | 1 3/8 x 4 1/4 | 3.50 | 2.10 |
| 8-8 | 1.75-1.75 | 1 1/2 x 4 1/4 | 4.30 | 2.58 |

Type PWP600

| | | | | |
|---|---|-----------------------|--------|--------|
| 4 | 2 | 4 1/4 x 1 3/8 x 1 1/8 | \$2.00 | \$1.20 |
| 8 | 3 | 4 1/4 x 1 3/8 x 1 1/8 | 3.25 | 1.95 |

CLEAT-MOUNTING CARDBOARD TYPE PRV

AeroVox-originated units. In cardboard tubes for economy. Replaces metal-can electrolytics requiring mounting hole in chassis. Separate sections. Coded leads.



Type PRV 600—Single Section 600v D.C. Working

| Cap. Mfds. | Size-Ins. Dia.-High | List Price | Net Price |
|------------|---------------------|------------|-----------|
| 4 | 1 3/8 x 4 | \$2.25 | \$1.35 |
| 8 | 1 3/8 x 4 | 2.95 | 1.77 |
| 16 | 1 3/8 x 4 | 3.45 | 2.07 |

Type PRV 450—Single Section 450v D.C. Working

| | | | |
|----|-----------|--------|--------|
| 4 | 1 3/8 x 3 | \$1.10 | \$0.66 |
| 8 | 1 3/8 x 3 | 1.15 | .69 |
| 10 | 1 3/8 x 3 | 1.25 | .75 |
| 12 | 1 3/8 x 3 | 1.35 | .81 |
| 16 | 1 3/8 x 3 | 1.55 | .93 |
| 20 | 1 3/8 x 3 | 1.70 | 1.02 |
| 30 | 1 3/8 x 3 | 1.85 | 1.11 |
| 40 | 1 3/8 x 3 | 2.20 | 1.32 |
| 80 | 1 3/8 x 4 | 3.75 | 2.25 |

Type PRV 450—Double Section

| | | | |
|-------|---------------|--------|--------|
| 8-8 | 1 3/8 x 4 | \$2.30 | \$1.38 |
| 8-16 | 1 3/8 x 4 | 2.70 | 1.62 |
| 10-10 | 1 3/8 x 4 | 2.45 | 1.47 |
| 12-12 | 1 3/8 x 4 | 2.70 | 1.62 |
| 16-16 | 1 3/8 x 4 | 3.20 | 1.92 |
| 20-20 | 1 3/8 x 4 3/4 | 3.50 | 2.10 |

Type PRV 450—Triple Section

| | | | |
|----------|---------------|--------|--------|
| 8-8-8 | 1 3/8 x 4 3/4 | \$2.75 | \$1.65 |
| 10-10-10 | 1 3/8 x 4 3/4 | 3.05 | 1.83 |

Type PRV 350—Double Section 350v D.C. Working

| | | | |
|-------|-----------|--------|--------|
| 16-16 | 1 3/8 x 4 | \$3.00 | \$1.80 |
|-------|-----------|--------|--------|

Type PRV 250—Double Section 250v D.C. Working

| | | | |
|-------|-----------|--------|--------|
| 16-16 | 1 3/8 x 3 | \$2.50 | \$1.50 |
|-------|-----------|--------|--------|

Type PRV 150—Double Section

| | | | |
|-------|-----------|--------|--------|
| 20-20 | 1 3/8 x 3 | \$2.20 | \$1.32 |
| 30-30 | 1 3/8 x 3 | 2.80 | 1.68 |

SPACE-SAVER MIDGET CAPACITORS

TYPE PBS



Single Section



Double Section

Units encased in heavy cardboard containers, thoroughly impregnated and fully sealed. Two color-coded wire leads for each section; four leads, double section; six leads, triple section. Units may be mounted flat or upright; also, two or three units may be stacked by overlapping the metal flanges.

800v. Surge Pk.-600v. D.C. Work.

Type PBS600—Single Section

| Cap. Mfds. | Size-Ins. H.—W.—E. | List Price | Net Price |
|------------|-----------------------|------------|-----------|
| 4 | 1 1/8 x 1 1/4 x 2 1/8 | \$2.90 | \$1.74 |
| 8 | 1 1/8 x 1 1/4 x 3 1/8 | 3.25 | 1.95 |

525v. Surge Pk.-450v. D.C. Work.

Type PBS450—Single Section

| | | | |
|----|-----------------------|--------|--------|
| 2 | 1/2 x 3/4 x 2 1/8 | \$1.00 | \$0.60 |
| 4 | 1 1/8 x 1 x 2 1/8 | 1.10 | .66 |
| 6 | 1 1/8 x 1 1/4 x 2 1/8 | 1.40 | .84 |
| 8 | 1 1/8 x 1 1/4 x 2 1/8 | 1.45 | .87 |
| 10 | 1 1/8 x 1 1/4 x 3 1/8 | 1.75 | 1.05 |
| 12 | 1 1/8 x 1 1/4 x 3 1/8 | 2.00 | 1.20 |
| 16 | 1 1/8 x 1 1/4 x 2 1/8 | 2.20 | 1.32 |

Type PBS450—Double Section

| | | | |
|------|-----------------------|--------|--------|
| 8-8 | 1 1/8 x 1 1/4 x 2 1/8 | \$2.25 | \$1.35 |
| 8-16 | 1 3/8 x 1 1/4 x 3 | 2.90 | 1.74 |

Type PBS450—Triple Section

| | | | |
|-------|-------------------|--------|--------|
| 8-8-8 | 1 1/4 x 1 1/2 x 3 | \$3.35 | \$2.01 |
|-------|-------------------|--------|--------|

DRAWN-CASE "BATHTUB" ELECTROLYTICS

TYPE BT



Ideal for applications in compact equipment where space is at premium, and rigid mounting is necessary. Sturdy immersion-proof construction.

Type BT 500—500v D.C.W.

| Cap. Mfd. | Size-Ins. L.—W.—H. | List Price | Net Price |
|-----------|--------------------|------------|-----------|
| 4 | 2 x 2 x 1 1/2 | \$4.70 | \$2.82 |
| 8 | 2 x 2 x 1 1/2 | 4.85 | 2.91 |

Type BT 450—450v D.C.W.

| | | | |
|----|-------------------|--------|--------|
| 8 | 1 3/4 x 1 x 1 | \$4.25 | \$2.55 |
| 12 | 1 3/4 x 1 1/4 x 1 | 4.75 | 2.85 |
| 16 | 2 x 1 3/4 x 1 | 5.00 | 3.00 |

Type BT 350—350v D.C.W.

| | | | |
|----|-----------------------|--------|--------|
| 8 | 1 3/4 x 1 x 1 1/8 | \$3.70 | \$2.22 |
| 12 | 1 3/4 x 1 1/4 x 1 1/8 | 4.20 | 2.52 |
| 16 | 1 3/4 x 1 1/4 x 1 1/8 | 4.40 | 2.64 |
| 20 | 1 3/4 x 1 1/4 x 1 1/4 | 4.60 | 2.76 |

Type BT 150—150v D.C.W.

| | | | |
|----|-------------------|--------|--------|
| 8 | 1 3/4 x 1 x 1 1/8 | \$2.75 | \$1.65 |
| 12 | 1 3/4 x 1 x 1 | 2.80 | 1.68 |
| 16 | 1 3/4 x 1 x 1 | 2.85 | 1.71 |
| 24 | 1 3/4 x 1 x 1 | 3.00 | 1.80 |
| 30 | 1 3/4 x 1 x 1 | 3.10 | 1.86 |
| 40 | 1 3/4 x 1 x 1 | 3.20 | 1.92 |

Type BT 50—50v D.C.W.

| | | | |
|----|-------------------|--------|--------|
| 10 | 1 3/4 x 1 x 1 1/8 | \$2.65 | \$1.59 |
| 25 | 1 3/4 x 1 x 1 1/8 | 2.75 | 1.65 |
| 50 | 1 3/4 x 1 x 1 1/8 | 3.00 | 1.80 |

Type BT 25—25v D.C.W.

| | | | |
|----|-------------------|--------|--------|
| 10 | 1 3/4 x 1 x 1 1/8 | \$2.60 | \$1.56 |
| 25 | 1 3/4 x 1 x 1 1/8 | 2.70 | 1.62 |
| 50 | 1 3/4 x 1 x 1 1/8 | 2.80 | 1.68 |