

Western Electric

Transformers

GENERAL BULLETIN

EQUIPMENT BULLETIN TRANSFORMERS, GENERAL

| TRANSFORMER | USE | IMPEDANCE RATIO (OHMS) |
|----------------------------|---|------------------------|
| 74-A Auto. Transformer | Input, 200-A, 200-A & D-65125 Panels. | 500:16 |
| 75-A Induction Coil | 90-A Subscriber Set. | - |
| 80-A Repeating Coil | 90-A, 90-A & 90-A Systems | 200:500 |
| 80-B Repeating Coil | Output, D-68493 Type Panel & Radio Broadcasting Sys. | 400:200 or 50 |
| 113-A Output Transformer | Output, 9-A Amplifier. | 200:500 |
| 113-C Output Transformer | Output, 10-A Amplifier. | 300:500 |
| 116-A Repeating Coil | 200 Type Panels | 200:50 |
| 120-A Output Transformer | Output, 11-A Control Cabinet | 200:200 |
| 120-B Output Transformer | Output, 3-A & 3-A Amplifiers | 6000:500 |
| 120-C Output Transformer | Output, 3-A & 3-A Amplifiers | 4000:500 |
| 120-D Output Transformer | Output, 25-C & 51-A Amplifiers | 4000:500 |
| 127-A Output Transformer | Output, 48-A, 49-B, 49-C, 50-A, D-69913 & D-67179 | 8000:500 or 250 |
| 127-B Output Transformer | Output, 48-A, 49-B, 49-C, 50-A, D-69913 & D-67179 | 2000:500 |
| 127-C Output Transformer | Output, 48-A, 49-B, 49-C, 50-A, D-69913 & D-67179 | 7200:8 |
| 128-A Output Transformer | Output, 14-A, 13-C, D, F Type & D-68446 Amplifiers | 500:1500 |
| 129-A Output Transformer | Output, 47-A, 47-B, 51-A & 51-B Amplifiers | 2500:120 |
| 132-A Output Transformer | Output, 8-C Amplifier | 6000:500 |
| 132-C Output Transformer | Output, 8-A & 8-A Amplifiers | 2500:200 |
| 132-D Output Transformer | Output, 68-A & 70-A Amplifiers | 2000:500 |
| 134-A Output Transformer | Output, 51-A & 59-B Amplifiers | 200:1500 or 200 |
| 134-B Output Transformer | Output, 51-A & 59-B Amplifiers | 6800:500 |
| 137-A Output Transformer | Output, D-94931 & D-95036 Type Amplifiers, except | 5800:8 |
| 137-B Output Transformer | Output, D-94931 & D-95036 Type Amplifiers, except | 2900:200 |
| 137-C Output Transformer | Output, 59-A Amplifier | 2900:200 or 90 |
| 150-A Output Transformer | Output, 59-A Amplifier | 200:200 |
| D-67179 Repeating Coil | Output, 71-A Control Cabinet | 6000:16 |
| D-95699 Output Transformer | Output, B-10-A, C-10-A, D-10-A Amplifiers | 800:11, 4, 9 & 16 |
| D-95955 Output Transformer | Output, D-95955-A Amplifier | 600:11000 |
| 208-AD Input Transformer | Input, 51-B Panel | 500:14000 |
| 208-B Input Transformer | 100-A Control Cabinet | 4000:30000 |
| 208-C Input Transformer | Input, 1-A Amplifier | 2000:15000 |
| 226-B Input Transformer | Interstage, 2-B & 2-B Amplifiers | 6000:16000 |
| 226-C Input Transformer | Input, 32-A Amplifier | 2000:13000 |
| 227-A Input Transformer | Input, 34-A & 34-B Amplifiers | 2000:13000 |
| 227-B Input Transformer | Interstage, 34-A & 34-B Amplifiers | 2000:13000 |
| 227-C Input Transformer | Input, 25-C Amplifier | 250:200 |
| 233-B Input Transformer | Interstage, 32-A & 32-B Amplifiers | 2000:2500 |
| 233-D Input Transformer | Interstage, 32-A, D-65913, D-65913-A, D-67179 & D-67179-A Amplifiers | 2000:5000 |
| 233-E Input Transformer | Input, 32-A, 41-A, 41-B, E-41-C Amplifiers | 200:25000 |
| 233-F Input Transformer | Geo 200:500 Input Transformer | 500:14000 |
| 233-G Input Transformer | Input, 42-A Amplifier | 16000:4000 |
| 233-H Input Transformer | Interstage, 46-A, 46-B Type & D-68446 Amplifiers | 2000:18000 |
| 233-J Input Transformer | Input, 46-A, 46-B Type & D-68446 Amplifiers | 250:25000 |
| 242-A Input Transformer | Input, A-10-A, C-10-A & 41-A Type Amplifiers. | 275:3370 |
| 242-B Input Transformer | Interstage, 46-A, 46-B Control Cabinets | 600:8000 |
| 246-A Input Transformer | Interstage, 46-A, 46-B Control Cabinets Type, D-65913, C & D, D-65729-B, C & D Amplifiers | 13600:117000 |
| 247-A Input Transformer | Input, 46-C, D, E & F Type, A-80-B, D-90500, D-94013, 7A-7261 & 7A-7246 Amplifiers | 250:15000 |
| 247-B Input Transformer | Interstage, 46-C, D, E & F Type Amplifiers | 16000:10000 |
| 247-C Input Transformer | Input, 27-A Amplifier | 200:13500 |
| 247-D Input Transformer | Interstage, 59-A & 59-B Amplifiers | 16000 & 200:19000 |
| 247-E Input Transformer | Interstage, 59-A & 59-B Amplifiers | 17000:113000 |
| 258-A Input Transformer | Input, D-94931 & D-95036 Type Amplifiers, except | 200:8000 |
| 258-B Input Transformer | Interstage, D-95036-A Amplifier | 18000:4000 |
| 260-A Input Transformer | Interstage, D-95036-A & D-95036 Type Amplifiers | 800:135000 |
| 261-A Input Transformer | Input, 59-A, 59-B & 61-A Amp. (Mid tap for 3BT frame) | 261:50000 |
| 261-B Input Transformer | Input, 80-A Amplifier | 200:13000 |
| 264-B Input Transformer | Input, 80-B & D-95036-A Amplifiers | 200:10000 |
| D-86822 Transformer | Special Input, 41-A Amp. for 6 db increase in gain | 5:900 |
| D-92828 Repeating Coil | Vertical Input, D-36255 Control Cabinet | 50:15000 |
| D-95072 Input Transformer | Subtle on Input, 41 & 51 Type Amplifiers using | 30:15000 |
| D-95698 Input Transformer | Input, 48-A Amplifier | 200:30000 |
| D-95997 Input Transformer | Interstage, D-95036-A Amplifier | 17000:113000 |
| D-95845 Repeating Coil | 7A-7261 Control Cabinet | 16:900 |

TRANSFORMERS, GENERAL

| TRANSFORMER | USE |
|------------------------|--|
| 90-B Repeating Coil | (For Diagram of Connections refer to Drawings on Equipment listed below) |
| 303-A Transformer | Filament-Plate, 25-C & 51-A Amplifiers |
| 303-B Transformer | Filament-Plate, 34-A & 34-B Amplifiers |
| 303-C Transformer | Plate, 42-A, 46-A, B, C, D, E & F Amplifiers |
| 303-D Transformer | Filament, 42-A, 46-A, B, C, D, E, F Type Amplifiers & TA-7114 Panel |
| 303-E Transformer | Plate, 706-A Control Cabinet |
| 303-F Transformer | Filament, TA-7114 Panel |
| 307-A Transformer | Plate, 43-A Amplifier |
| 307-B Transformer | Filament, 43-A & B-43-A Amplifiers |
| 308-A Transformer | 707-A Control Cabinet |
| 310-A Transformer | Filament-Plate, 708-A Control Cabinet |
| 311-A Transformer | Projection Lamp, 202-B & TA-4050-53 Reproducer Sets |
| 311-B Transformer | Projection Lamp, 202-B & TA-4050-53 Reproducer Sets |
| 316-A Transformer | Plate, 57-A, 59-A & 59-B Amplifiers |
| 317-A Transformer | Filament, 57-A Amplifier |
| 317-C Transformer | Filament, 59-A & 59-B Amplifiers |
| 321-A Transformer | 10V Supply, D-94931 Amplifier |
| 322-A Transformer | Filament, 63-A Amplifier |
| 326-A Transformer | Filament, 5-A Current Supply Set |
| 327-A Transformer | Rectifier, Plate, 5-A Current Supply Set |
| 327-B Transformer | Filament-Plate, D-94931 & D-95036 Type Amplifiers except D-95036-E Amplifier |
| 328-A Transformer | Projection Lamp, D-94931 Type Reproducer Set |
| 5117 Transformer | Filament-Plate, TA-4144 Power Unit |
| 79884 Auto Transformer | In 220V. Output of KS-521 Motor Generator Set |
| 102311 Transformer | Filament-Plate, TA-4038 Power Unit |
| 21132 Transformer | Filament-Plate, TA-4032 Type Power Units |
| 325311 Transformer | Filament-Plate, TA-4032 Type Power Units |
| 330304 Transformer | Filament-Plate, TA-4033 Type Power Units |
| D-87299 Transformer | Filament-Plate, 708-A Control Cabinet |
| D-88444 Transformer | Plate, D-88446 Amplifier |
| D-95557 Transformer | Filament, D-88446 Amplifier |
| D-95998 Transformer | Plate, B-47-A Amplifier |
| D-95660 Transformer | Filament-Plate, D-95036-E Amplifier |
| D-95661 Transformer | Filament, TA-7249 Rectifier |
| KS-2264 Transformer | Plate, TA-7249 Rectifier |
| KS-6154 Transformer | Filament, 520-A & D-94836 Panels |
| KS-6155 Transformer | Filament-Plate, 700-A Control Cabinet |
| TA-4005 Control Cab. | Filament-Plate, 701-A Control Cabinet |
| TA-7278 Transformer | Amplifier Voltage Regulator |
| | Filament-Plate, TA-7276 Power Unit |



* Indicates additions and changes.

1. GENERAL

1.1 This bulletin covers the classification and coding of Retardation Coils, Choke Coils, Induction Coils and Reactance Coils, as used in Western Electric Sound Systems.
 1.2 Merchandising
 (a) Before ordering replacements, refer to the Equipment Bulletin on the apparatus affected, as some of the items are not supplied for field replacement.
 (b) For the disposition of defective coils, see Operating Bulletin #5, File 6.1.
 (c) Order as (for example):
 "One 71-A Retardation Coil"
 or
 "One #825305 (Heyer) Reactance".

2. DATA CHART

| Designation | Where Used | Average DC Resistance (Ohms) | Emergency Substitute |
|--|--|--|---|
| 61-A Retardation Coil | 701-A Control Cabinet | Wdg. 1-2 - 2345 Wdg. 3-4 - 2345 | 75-B Retard. Coil |
| 67-F Retardation Coil | 10-A, B-10-A, C-10-A, D-10-A, TA-7248 & TA-7248-A Amplifiers. (Used as radio frequency choke) | 2.8 | |
| 71-A Retardation Coil | 9-A & A-9-A Amplifier | 372 | 136-A Retard. Coil |
| 71-B Retardation Coil | 8-B, A-8-B, 9-A & A-9-A Amps. | 1.8 | 91-AR Retard. Coil |
| 75-B Retardation Coil | 203-B & 518-A Volume Indicator | 4350 | 61-A Retard. Coil |
| *82-A Retardation Coil | TA-7261, TA-7246 & TA-7246-A Amplifiers and TA-7253-A Equalizer | Wdg. 1-2 Wdg. 3-4 (In series) 30 | 182-A Retard. Coil |
| *82-G Retardation Coil (Replaced by) 182-A | Variable Inductance | 3.5 4.0 | 182-B Retard. Coil |
| *82-H Retardation Coil (Replaced by) 182-B | TA-7253 Equalizer | 25.2 30.0 | |
| *93-D Retardation Coil | D-94257 Equalizer | Wdg. 1-2 - 5.0 Wdg. 3-4 - 5.0 | |
| *93-H Retardation Coil | D-94257 Equalizer | 5.7 | |
| *94-H Retardation Coil | TA-7225 Filter | Wdg. 1-2 - 2.5 Wdg. 3-4 - 2.5 | |
| 94-N Retardation Coil | D-86849 Reproducer Set | 53 | 71-A Retard. Coil |
| 100-A Retardation Coil | 74-A & B Amplifiers and D-85125 Volume Control Panel | 435 | 71-B or 141-A Retardation Coil |
| 101-A Retardation Coil | 8-B & A-8-B Amplifiers | 5.0 | 71-A Retard. Coil with Wdg. in parallel |
| 109-A Retardation Coil | 42-A, 46-A, B, C & E, A-46-A, B-46-C, D-46-B, H-46-C, F-46-F & D-88446 Amplifiers & 201-A & B Panels | 120 | 113-A or 140-A Retardation Coil |
| 109-B Retardation Coil | 42-A & B, A-42-A, A-42-C, B-42-C & E-42-C Amplifiers | 740 | 109-B or 140-A Retardation Coil |
| 113-A Retardation Coil | 8-B, A-8-B, 25-C, 32-A, 34-A & B and 51-A Amplifiers | 739 | D-86502 Retard. Coil |
| *117-D Retardation Coil | D-96828 & D-98359 Watch Rate Recorders | 175 | D-86502 Retard. Coil |
| *118-A Retardation Coil | 32-A Amplifier and D-94257 Control Cabinet | 165 | D-86502 Retard. Coil |
| 130-A Retardation Coil | 32-A Amplifier | 174 | 136-A Retard. Coil |
| 134-A Retardation Coil | 42-A, A-42-A, 46-A, B, C & E, A-46-A, B-46-C, D-46-B, F-46-F, H-46-C & D-88446 Amplifiers | 417 | 71-A Retard. Coil |
| *134-B Retardation Coil | 59-B Amplifier (Part of 706-A Filter) | Wdg. 1-2 - 390 Wdg. 3-4 - 390 | |



* Indicates additions and changes.

1. GENERAL

1.1 This bulletin covers the classification and coding of Retardation Coils, Choke Coils, Induction Coils and Reactance Coils, as used in Western Electric Sound Systems.
 1.2 Merchandising
 (a) Before ordering replacements, refer to the Equipment Bulletin on the apparatus affected, as some of the items are not supplied for field replacement.
 (b) For the disposition of defective coils, see Operating Bulletin #5, File 6.1.
 (c) Order as (for example):
 "One 71-A Retardation Coil"
 or
 "One #825305 (Heyer) Reactance".

2. DATA CHART

| Designation | Where Used | Average DC Resistance (Ohms) | Emergency Substitute |
|--|--|------------------------------------|---|
| 136-A Retardation Coil | 43-A, B-43-A, C-43-A, 57-A, 59-A & B Amplifiers & D-88651 Control Cabinet | 103 | 130-A Retard. Coil |
| 137-A Retardation Coil | 43-A, B-43-A, C-43-A, 57-A, 59-A & B Amplifiers | 225 | 134-A Retard. Coil |
| 144-A Retardation Coil | 708-A Control Cabinet | Wdg. 1-2 - .058 Wdg. 3-4 - 2700 | |
| *148-D Retardation Coil | 59-A & B Ampl. and D-94852-B, C & D Control Units. (Algo used in) D-94804 & D-95056-B Ampl. to replace dynamic speaker field | 675 | |
| *148-E Retardation Coil | 63-A Amplifier | 4700 | 179-A Retard. Coil |
| 151-A Retardation Coil | 700-A, 701-A & 702-B Filters | 7.85 | Two 151-B Retard Coils |
| 151-B Retardation Coil | 700-C & 702-A Filters | 4.18 | Two 151-C Retard. Coils |
| 151-C Retardation Coil | 700-A & C, 701-A, 702-A & B Filters | 1.70 | |
| 151-D Retardation Coil | 700-B, 701-A Filters and TA-7115 & TA-7252 Filament Supply Filter | .42 | 187-A Retard. Coil |
| *172-B Retardation Coil | 5-A Rectifier | 270 | |
| *179-A Retardation Coil | 86-A, A-86-A, B-86-A, C-86-A, D-86-A, 86-C & D-95036-E Amplifiers & 714-A & 718-A Apparatus Unit | 4700 | 148-E Retard. Coil |
| *187-A Retardation Coil | 5-A & A-5-A Current Supply Sets | 0.435 | 151-D Retard. Coil |
| *189-A Retardation Coil | D-98356, D-95036-A, B, D, E, F & G & D-94531 & D-94531-A Amplifiers | 250 | 197-A Retard. Coil |
| *197-A Retardation Coil | 86-A, A-86-A, B-86-A & C-86-A Amplifiers | 250 | 189-A Retard. Coil |
| *220-A Retardation Coil | 12-A Rectifier | 2.80 | |
| TA-4015 Retard. Coil | 709-C Control Cabinet | 6 | 169-B Condenser (See E.B.#C.G., 709-C, File 4.15) |
| *TA-4136 Retard. Coil | TA-7204 & TA-7213 Filter | 0.35 | |
| *TA-4152 Retard. Coil | TA-7257 Coupling Network | 0.1 | |
| *TA-4172 Loudspeaking Feib. (Field Coil) | Used as choke in plate okt. of 91-A Amplifier | | |
| *TA-7277-A Retard. Coil | TA-7276 Power Unit | 1.63 | |
| *TA-7277-B Retard. Coil | TA-7276 Power Unit and TA-7296 Filter | 1.12 | |
| *TA-7277-E Retard. Coil | TA-7276 Power Unit | 0.50 | |
| ES-2304 Retard. Coil | 519-A Panel | 75.0 | Wdg. 1-2 - 1 Wdg. 3-4 - 3200 |
| ES-6078 Retard. Coil | 701-A Control Cabinet | 5.3 | |
| D-79805 Retard. Coil | D-85128 Equalizer | 97.0 | |
| D-81625 Retard. Coil | 701-A Control Cabinet | 300 | |
| D-81817 Filter | 700-A Control Cabinet | 200 | |
| D-86501 Retard. Coil | D-86353 Equalizer | 175 | |
| D-86502 Retard. Coil | D-86353 Equalizer | 175 | |
| D-87169 Retard. Coil (Coil & Condenser Unit) | 706-A & 708-A Control Cabinets | Wdg. 1-2 - 1070 Wdg. 3-4 - 4 | |
| *D-95662 Retard. Coil | TA-7248 & TA-7248-A Amps. | 34.0 | |

EQUIPMENT BULLETIN RETARDATION COILS - GENERAL

| Designation | Where Used | Average DC Resistance (Ohms) | Emergency Substitute |
|---------------------------------|--|------------------------------|----------------------|
| *D-95796 Retard. Coil | 87-A Amplifier | 0.15 | |
| *D-96246 Retard. Coil | TA-7297 and TA-7284 Control Cabinets | 295 | |
| *D-96637 Retard. Coil | 87-A Amplifier | 4.5 | |
| *D-96861 Retard. Coil | TA-7900 Apparatus Unit | 1.10 | |
| *D-96936 Retard. Coil | TA-7311 Apparatus Unit | 37.0 | |
| *D-97443 Retard. Coil | D-96828 & D-98359 Watch Rate Recorders | 120.0 | |
| *D-97455 Retard. Coil | TA-7323 Control Cabinet | | |
| *ASA-1280 Retard. Coil | TA-7332 Apparatus Unit | 0.5 | |
| *ASA-1284 Retard. Coil | TA-7321 Power Unit | | |
| *ASL-2853 Retard. Coil | TA-7245-A Network | 3.0 | |
| *ASP-6030 Retard. Coil | 41-B & B-41-C Amplifier | 1.0 | |
| 5-B Choke Coil | TA-4030 Filter | 494 | |
| Retard. Coil | 6-A Equalizer | | |
| Retard. Coil | TA-4144 & TA-4144-A Power Units (Heyer) | | |
| *2155 Reactance (Heyer) | TA-4035 & TA-4035-A Power Units | | |
| *85304 Reactance (Heyer) | TA-4037 & TA-4037-A Filter | | |
| *82505 Reactance (Heyer) | TA-4036 & TA-4036-A Power Units | | |
| *29307 Reactance (Heyer) | TA-4035 & TA-4035-A Power Units | | |
| *30302 Reactance (Heyer) | TA-4036 & TA-4036-A Power Units | | |
| *101705 Reactance (Heyer) | TA-4035 & TA-4035-A Power Units | | |
| *1018301 Reactance (Heyer) | TA-4035 & TA-4035-A Power Units | | |
| *799828 Reactor (W.E. Mfg. Co.) | KS-7146 & KS-7146-A, C & D Current Supply Sets | | |

Note: The 82-G and 82-H Retardation Coils are general purpose coils, valuable for use in experimental work and filter design. The 82-G coil is constructed with six terminals, by means of which it is possible to obtain various values of inductance by connecting to the several possible combinations of two terminals. The 82-H Coil is provided with eight terminals.

The 182-A and 182-B Retardation Coils entirely replace the 82-G and 82-H Retardation Coils. Both coils have eight terminals.

EQUIPMENT BULLETIN TRANSFORMERS - INPUT

| TRANSFORMERS | USE | IMPED. RATIO (OHMS) | SECTED L. WINDING PRES. | *AVERAGE DC RESISTANCE (See Note) | H. WINDING PRES. |
|---|----------------------------------|---------------------|-------------------------|-----------------------------------|----------------------------------|
| 7-A TA-7297 Network, 200-A, 209-A, ASL-2828 & D-85125 Panel | Music reproducing & P.A. Systems | 500:15 5018:0.75 | Ro | 2-13 2-C or H-C | 1-13 1-C or 10-C |
| TA-1183 Induction Coil | 528-A Subcarrier Set | | Ro | P-3 | 8-5 |
| 83 | D-95125 Panel | | Rq | 1-2 5:0 | 3-4 |
| 86 | Input Transformers | | Ro | 1-2 | 8-5 |
| 208-AD | Input, 518-B Panel | 500:14000 | Ro | 1-2 | 5-7 (18-3) 10-1 (18-3) 3-4 |
| 208-A | 700-A Control Cabinet | 600:16000 | R | 1-2 & 5-6 | 3-4 & 7-8 |
| 208-E | Input, 9-A Ampl. | 4000:10000 | Ro | 1-2 & 5-6 | 3-4 & 7-8 |
| 208-F | Input, 10-A Ampl. | 4000:10000 | Ro | 1-2 & 5-6 | 3-4 & 7-8 |
| 208-G | Interstage, 6-B & 6-C Ampl. | 6000:165000 | Ro | 1-2 | 1900 |
| 208-H | Input, 38-A Ampl. | 20000:130000 | Ro | 1-2 | 6950 |
| 208-I | Input, 39-A Ampl. | 20000:130000 | Ro | 1-2 | 6950 |
| 208-J | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-K | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-L | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-M | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-N | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-O | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-P | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-Q | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-R | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-S | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-T | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-U | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-V | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-W | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-X | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-Y | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 208-Z | Interstage, 34-A & 34-B Ampl. | 20000:130000 | Ro | 1-2 & 3-4 | 2150 |
| 209-A | Input, 10-A Ampl. | 250:150000 | Ro | 1-2 & 3-4 | 75 |
| 209-B | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-C | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-D | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-E | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-F | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-G | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-H | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-I | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-J | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-K | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-L | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-M | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-N | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-O | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-P | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-Q | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-R | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-S | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-T | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-U | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-V | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-W | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-X | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-Y | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 209-Z | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-A | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-B | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-C | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-D | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-E | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-F | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-G | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-H | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-I | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-J | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-K | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-L | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-M | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-N | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-O | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-P | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-Q | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-R | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-S | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-T | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-U | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-V | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-W | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-X | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-Y | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |
| 210-Z | Input, 10-A Ampl. | 16000:100000 | Ro | 1-2 & 3-4 | 200 |

Note: The Average D.C. Resistances are for (a) the low windings in series, (b) the high windings in series. These values are for winding purposes only, because of the adjustment of the windings to obtain the maximum or minimum D.C. Resistance may vary 1% from the Average.

4, 4g



TRANSFORMERS - POWER

EQUIPMENT BULLETIN

* INDICATES ADDITIONS AND CHANGES.

Replaces Transformers - Power, Section of E.B. Transformers - General, File 4, 4g

| TRANSFORMER | WIRE USED | FEELING | WINDINGS | WIRE | SECTOR | REMARKS |
|----------------------|---|---------|-------------------|-------------------------|-------------------------------------|--|
| | | | | | | |
| 303-B Repeating Coil | Filament & Plate 25-C & 51-A Amplifiers | 60 | 1-2 | 105-115 | 3-4, 5-6 7-8 9-10 | 4, 5 are Center Taps for Winding 3-4, 5 & 9 are Strapped Tap is Common Center Tap for Windings, 3-4 & 5-6 |
| 303-A Transformer | Filament & Plate 31-A & 34-B Amplifiers | 60 | 1-2 | 110 | 3-4 5-6 7-8 8-9 | 1.0 1.5 1.6 1.6 1.6 1.6 1.6 1.6 |
| 303-B Transformer | Plate, 42-A, 46-A, B, C, D, E & F Amplifiers | 60 | 1-2 | 110 | 3-7 7-4 | 1.30 1.50 0.065 0.065 |
| 303-C Transformer | Filament, 42-A, 46-A, B, C, D, E & F Amplifiers | 60 | 1-2 | 110 | 3-7 7-4 | 4.5 3.2 4.5 3.2 |
| 303-D Transformer | Plate, 70-A Control Cabinet | 720 | 1-2A-2B | 90 | 3-4 5-7-6-6 | Supplies Plate Potential for Rect. 1, 205-D Tube in Half Wave Rect. Tap is Center Tap for 5-6 |
| 303-F Transformer | Filament, 7A-7114 Panel | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 8-10 | 4.5 3.2 4.5 3.2 |
| 307-A Transformer | Plate, 43-A Amplifier | 60 | 1-2 | 110 | 3-7 7-4 | 760 160 0.13 0.13 |
| 307-B Transformer | Filament, 43-A & B-43-A Amplifiers | 60 | 1-2 | 110 | 3-7 7-4 | 10.0 6.0 10.0 6.0 |
| 308-A Transformer | 707-A Control Cabinet | 60 | 1-2 | 110 | 5-6 5-6 | 16.0 16.0 |
| 310-A Transformer | Filament & Plate, 705-A Control Cabinet | 60 | 1-2 1-3 1-4 | 105.0 110.0 115.0 | 5-6 6-7 8-9 10-11 12-13 | 0.080 0.080 0.080 0.043 0.043 4.65 3.2 3.2 |
| 311-A Transformer | Projection Lamp, 202-B & 7A-4050 5-J5 Reproducer Sets | - | - | - | - | Replaced by 311-B Transformer |
| 311-B Transformer | Projection Lamp, 202-B & 7A-4050 5-J5 Reproducer Sets | 60 | 1-2 | 100-125 | 3-4 | 30 8 Taps on Primary to Adjust for Line Voltage |
| 316-A Transformer | Plate, 57-A, 59-A & 59-B Amplifiers | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6 7-8 | 0.130 0.130 0.130 0.130 |
| 316-B Transformer | 5-A Rectifier | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6-7 8-9-10 | 2.0 0.125 720 0.125 |
| 317-A Transformer | Filament, 57-A Amplifiers | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6 7-8 10-12 13-15 | 6.0 2.5 2.0 5.0 2.0 2.0 |

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4, 4g



TRANSFORMERS - OUTPUT-REPAIRING COILS

EQUIPMENT BULLETIN

* INDICATES ADDITIONS OR CHANGES.

REPLACING OUTPUT TRANSFORMER & REPAIRING COIL SECTION OF E.B. TRANSFORMERS - GENERAL, FILE 4, 4g

| TRANSFORMER | WINDING | RES. | REPAIRING COILS | RES. | REMARKS |
|---------------------------------|-----------|-------|-----------------|------|---------|
| | | | | | |
| 113-A Output, 9-A Amp. | 1-2 & 3-6 | 20 | 3-4 & 7-8 | 317 | |
| 113-B Output, 9-A Amp. | 1-2 & 3-6 | 25.2 | 3-4 & 7-8 | 288 | |
| 120-A Output, 3-A & 17-B Amps. | 1-2 & 3-4 | 104 | 5-6 | 695 | |
| 120-B Output, 3-A & 17-B Amps. | 1-2 & 3-4 | 490 | 5-6 | 450 | |
| 120-C Output, 3-A & 17-B Amps. | 1-2 & 3-4 | 210 | 5-6 | 450 | |
| 120-D Output, 3-A & 17-B Amps. | 1-2 & 3-4 | 4.13 | 5-6 | 965 | |
| 127-A Output, 42-A & 46-B Amps. | 1-2 & 3-4 | 36.5 | 3-4 & 7-8 | 325 | |
| 127-B Output, 42-A & 46-B Amps. | 1-2 & 3-6 | 67 | 3-4 & 7-8 | 3220 | |
| 127-C Output, 42-A & 46-B Amps. | 1-2 & 3-6 | 0.675 | 3-4 & 7-8 | 860 | |
| 127-D Output, 42-A & 46-B Amps. | 1-2 & 3-6 | 18.2 | 3-4 & 7-8 | 200 | |
| 128-A Output, 42-A & 46-B Amps. | 1-2 & 3-6 | 37.2 | 3-4 & 7-8 | 2040 | |
| 128-B Output, 42-A & 46-B Amps. | 1-2 & 3-6 | 105 | 5-6 | 695 | |
| 128-C Output, 42-A & 46-B Amps. | 1-2 & 3-6 | 2440 | 5-6 | 2440 | |
| 128-D Output, 42-A & 46-B Amps. | 1-2 & 3-6 | 37 | 3-4 & 7-8 | 2740 | |
| 134-A Output, 57-A Amp. | 1-2 & 3-6 | 56 | 3-4 & 7-8 | 122 | |
| 134-B Output, 57-A Amp. | 1-2 & 3-6 | 23 | 3-4 & 7-8 | 177 | |
| 134-C Output, 57-A Amp. | 1-2 & 3-6 | 12 | 3-4 | 3950 | |
| 134-D Output, 57-A Amp. | 1-2 & 3-6 | 0.37 | 3-4 | 140 | |
| 134-E Output, 57-A Amp. | 1-2 & 3-6 | 1.1 | 3-4 | 280 | |
| 134-F Output, 57-A Amp. | 1-2 & 3-6 | 3.8 | 3-4 | 280 | |
| 134-G Output, 57-A Amp. | 1-2 & 3-6 | 5.05 | 3-4 & 5-6 | 167 | |
| 134-H Output, 57-A Amp. | 1-2 & 3-6 | 0.49 | 3-4 & 5-6 | 120 | |
| 134-I Output, 57-A Amp. | 1-2 & 3-6 | 3.4 | 3-4 | 1400 | |
| 134-J Output, 57-A Amp. | 1-2 & 3-6 | 0.825 | 3-4 & 5-6 | 143 | |
| 134-K Output, 57-A Amp. | 1-2 & 3-6 | 0.44 | 3-4 & 5-6 | 77.5 | |
| 134-L Output, 57-A Amp. | 1-2 & 3-6 | 0.85 | 3-4 & 5-6 | 178 | |
| 134-M Output, 57-A Amp. | 1-2 & 3-6 | 0.25 | 3-4 & 5-6 | 580 | |
| 134-N Output, 57-A Amp. | 1-2 & 3-6 | 13.8 | 3-4 & 7-8 | 12.5 | |
| 134-O Output, 57-A Amp. | 1-2 & 3-6 | 18.3 | 3-4 & 7-8 | 22.6 | |
| 134-P Output, 57-A Amp. | 1-2 & 3-6 | 12.6 | 3-4 & 7-8 | 24 | |
| 134-Q Output, 57-A Amp. | 1-2 & 3-6 | 12.6 | 3-4 & 7-8 | 12.6 | |
| 134-R Output, 57-A Amp. | 1-2 & 3-6 | 0.4 | 3-4 & 7-8 | 4 | |
| 134-S Output, 57-A Amp. | 1-2 & 3-6 | 0.44 | 3-4 | 14 | |
| 134-T Output, 57-A Amp. | 1-2 & 3-6 | 0.33 | 3-4 | 280 | |
| 134-U Output, 57-A Amp. | 1-2 & 3-6 | 0.30 | 3-10 | 280 | |

ISSUE 1

MAY 20, 1936

Electrical Research Products Inc. OPERATING DEPT. - EQUIPMENT DIV.

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EQUIPMENT BULLETIN * Indicates Additions & Changes *

| TRANSFORMER | WIRE USED | PRIMARY | | | SECONDARY | | | REMARKS |
|---------------------------------------|--|---------|---|---|---|---|---|---------|
| | | TERMS | VOICES | AMPS. | TERMS | VOICES | AMPS. | |
| D-67599 Transformer (New Code, 310-A) | Filament & Plate, 708-A Control Cabinet | 60 | 1-2 1-3 1-4 | 105 110 115 | 5-4 5-7 8-9 10-11 11-12 | 450 300 4.65 4.65 3.2 | 6 is Center Tap for 25 Cycles | |
| D-68044 Transformer | Plate, D-68046 Amplifier | 25-60 | 1-2 | 110 | 3-7 7-4 | 430 430 | This rating is for 25 Cycles | |
| D-68445 Transformer | Filament, D-68446 Amplifier | 25-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 3-4 5-6 | 4.5 4.5 | | |
| D-69597 Transformer | Plate, B-113-A Amplifier | 50-65 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 | 1920 | 6 is Center Tap of Winding 5-7 | |
| D-69660 Transformer | Filament, 7A-7249 Rectifier | 50-65 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 | 2.64 10.0 5.0 920.0 | 6 is Center Tap for Winding 5-7 | |
| D-69661 Transformer | Plate, 7A-7249 Rectifier | 50-65 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 | 3180 | | |
| D-69998 Transformer | Filament & Plate, D-69936-B Amplifier | 50-65 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 | 5.0 | 6, 9, 12 & 15 are Center Taps for Windings 5-7, 8-10, 11-13 and 14-16 | |
| D-69875 Transformer | Plate, 87-A, 87-A & 87-C Amplifiers | 47-65 | 1-2 1-3 | 110 120 | 4-6 | 2940 | 5 is Center Tap for Winding 4-6 | |
| D-69856 Transformer | Filament, 87-A, 87-A & 87-C Amplifiers | 47-65 | 1-2 1-3 | 110 120 | 4-6 7-9 10-12 | 10.0 10.0 2.59 | 5, 8 & 11 are Center Taps for Windings 4-6, 7-9 and 10-12 | |
| D-69970 Transformer | Filament & Plate, 86-C & B, & 86-A Amplifier | 50-60 | 1-2 1-3 | 110 120 | 4-6 10-12 13-14 | 5.0 10.0 1120.0 5.0 | 5, 8 & 11 are Center Taps for Windings 4-6, 7-9 and 10-12 | |
| K8-2261 Transformer | Filament, 520-A, 521-A and D-94856 Female | 60 | 1-2 3-4 | 110 | 5-9 6-8 | 14.0 10.0 | 7 is Center Tap | |
| K8-2264 Transformer | Plate, 520-A & D-94856 Female | 60 | 1-2 3-4 | 110 | 5-7 | 2200 | 6 is Center Tap of Winding 5-7 | |
| K8-3154 Transformer | Filament & Plate, 70-A Control Cabinet | 20 | 1-2 2 3 | 80 85 75 | 7-8 9-11 | 5.0 5.0 800.0 | 10 is Center Tap for Winding 9-11 | |
| K8-3155 Transformer | Filament & Plate, 70-A Control Cabinet | 50-60 | 1-2 1-3 1-4 1-5 1-6 1-7 1-8 | 100 105 110 115 120 125 130 | 9-10 11-12 13-14 15-16 15-17 18-20 | 5.0 5.0 5.0 3.2 350 400 900 | 19 is Center Tap for Winding 18-20 | |
| *K8-5791 Transformer | 7A-4151 Loud-Speaking Telephone | 50-60 | 1-2 | 105-125 | - | - | See 3.3. Woundspeaking Telephone, 7A-4151 & 7A-4153 Types, File 4.22. | |
| *K8-7186 Transformer | 7A-4165 Loud-Speaking Telephone | 50-60 | 1-2 | 105-125 | - | - | See 3.3. Woundspeaking Telephone, 7A-4165 & 7A-4166 Types, File 4.22. | |



EQUIPMENT BULLETIN * Indicates Additions & Changes *

| TRANSFORMER | WIRE USED | PRIMARY | | | SECONDARY | | | REMARKS |
|-----------------------|--|---------|-----------------------------|-------------------------|--------------------------------------|---|--|---------|
| | | TERMS | VOICES | AMPS. | TERMS | VOICES | AMPS. | |
| 317-0 Transformer | Filament, 59-A & 59-B Amplifiers | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6 7-8-9 10-11-12 13-14-15 | 2.52 0.70 2.0 2.0 | 8, 11 & 14 are Center Taps for Windings, 7-9, 10-12 & 13-15 | |
| 319-A Transformer | Filament, 10-A Radio Receiver | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6-7 | 2.13 | 6 is Center Tap, for Winding 5-7 | |
| 321-A Transformer | Filament, 61-A Amplifier | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6-7 | 10.0 | 6 is Center Tap, for Winding 5-7 | |
| 322-A Transformer | 10 Volt Supply, D-94852 & D-94852-B & D Control Unit | 50-60 | 1-2 | 100 | 3-4 | 11.5 | 6 & 9 are Center Taps | |
| 325-A Transformer | Filament, 5-A Current Supply Set | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 8-10 | 2.5 16.0 16.0 | | |
| 326-A Transformer | Plate, 5-A Current Supply Set | 50-60 | 1-2 3-4 5-6 7 8 | 107.5 115.0 122.5 | 11-12-13 14-15-16 | 40-64 40-64 3.0 3.0 | 12 & 15 are Center Taps. Taps for Windings 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 are used to adjust the secondary voltage. | |
| 327-A Transformer | Filament & Plate, D-94571 & D-95036 type Amplifiers except D-95036-B | 50-65 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 8-10 11-13 14-16 | 5.0 2.5 10.0 0.7 2.0 0.108 | 6, 9, 12 & 15 are Center Taps for Windings, 5-7, 8-10, 11-13 & 14-16 | |
| 328-A Transformer | Projector Lamp, D-94644 Type, Repromer Set | 60 | 4-7 5-7 6-7 | 100.0 107.5 115.0 | 5-6 | 20.0 | 5-6 is part of Winding, 1-7 | |
| *328-B Transformer | Filament & Plate, 86-A type Amplifiers | 60 | 1-2 1-3 | 110 120 | 4-6 7-9 10-12 13-14 | 5.0 2.4 10.0 0.106 5.0 2.0 | Terminals 5, 8 & 11 are Center Taps for Windings, 4-6, 7-9 & 10-12 | |
| *328-A Transformer | Filament & Plate, 91-A Amplifier | 60-65 | 1-2 1-3 | 110 120 | 4-6 7-8 9-11 12-14 | 10.0 0.64 5.0 2.0 1000.0 0.130 5.0 1.2 | 5, 10 & 13 are Center Taps for Windings 4-6, 9-11 & 12-14 | |
| *328-B Transformer | 12-A Rectifier | 60-65 | 1-2 1-3 | 110 120 | 4-5 6-8 | 5.0 130.0 1.4 | 7 is Center Tap for Winding 6-8 | |
| *327-A Transformer | Filament & Plate, 86-B & 86-C Amplifiers | 50-60 | 1-2 1-3 | 110-120 110-120 | 4-6 7-9 10-12 13-14 | 5.0 2.4 10.0 0.106 5.0 2.0 | Terminals 5, 8 & 11 are Center Taps for Windings 4-6, 7-9 & 10-12 | |
| *329-A Transformer | Filament & Plate, 91-B Amplifier | 50-60 | 1-2 1-3 | 110-120 110-120 | 4-6 7-8 9-11 12-14 | 10.0 0.64 5.0 2.0 985.0 0.130 2.4 5.0 2.4 | Terminals 5, 10 & 13 are Center Taps for Windings 4-6, 9-11 & 12-14 | |
| *329-B Transformer | 12-B Rectifier | 50-60 | 1-2 1-3 | 110-120 110-120 | 4-6 7-9 10-12 | 5.0 10.0 1120.0 0.106 | Terminals 5, 8 & 11 are Center Taps for Windings 4-6, 7-9 & 10-12 | |
| *328-2852 Transformer | Filament & Plate, 7A-7321 Power Unit | 50-60 | 1-2 | 115 | 6-17 6-18 6-19 6-20 | 17.0 18.0 19.0 20.0 | | |

ALTEC SERVICE CORPORATION 4.48
 WESTERN ELECTRIC RETARDATION COILS,
 SOUND EQUIPMENT BULLETIN GENERAL
 ADDENDUM #1

| TRANSFORMER | WIRE USED | PRIMARY VOLTS | SECONDARY VOLTS | AMPS. | REMARKS |
|--|---|--|--|--|---|
| #A-7276 Transformer | Filament & Plate, #A-7276 Power Unit | 50 to 62.5 1-2 1-3 1-4 1-5 1-6 1-7 | 100 105 110 115 120 125 | 2.25 2.25 33.0 33.0 | 17.0 17.0 6.0 6.0 |
| #1157 Transformer (Boyer Products Co.) | Filament & Plate, #A-1157 Power Unit | 50 to 62.5 1-2 1-3 1-4 1-5 1-6 1-7 | 100 105 110 115 120 125 | | Secondary Supplies Anode and Filament of Two #18904g Tungar Bulbs |
| #19824 auto-transf. (G.E. Co.) | In 220 Volt Unit of #A-7321 Motor Generator Set | 5-140 1-2 | 220 3-4 | 110 13.6 | Has Flexible Leads approx. 6" Long |
| #102311 Transformer (Boyer Products Co.) | Filament & Plate, #A-10231 Power Unit | 50 to 62.5 1-2 1-3 1-4 1-5 1-6 1-7 | 100 105 110 115 120 125 | | Secondary Supplies Anode and Filament of Two #18904g Tungar Bulbs |
| #201312 Transformer (Boyer Products Co.) | Filament & Plate, #A-10235 Power Unit | 50 to 62.5 1-2 1-3 1-4 1-5 1-6 1-7 | 100 105 110 115 120 125 | | Secondary Supplies Anode and Filament of Four #18904g Tungar Bulbs |
| #125311 Transformer (Boyer Products Co.) | Filament & Plate, #A-10236 Power Unit | 50 to 62.5 1-2 1-3 1-4 1-5 1-6 1-7 | 100 105 110 115 120 125 | | Secondary Supplies Anode and Filament of Two #18904g Tungar Bulbs |
| #130204 Transformer (Boyer Products Co.) | Filament & Plate, #A-10235 Power Unit | 50 to 62.5 1-2 1-3 1-4 1-5 1-6 1-7 | 100 105 110 115 120 125 | | Secondary Supplies Anode and Filament of Two #18904g Tungar Bulbs |
| #199827 Transformer (W.E. & Mfg. Co.) | EE-7146 type Current Supply Sets | 50 to 62.5 1-2 1-3 1-4 | 105-110 111-119 120-125 | 5) Aging 6) Steps 7) 2.0 8) volts 9) per 10) Step | Secondary Feeds a Rectox Unit which has an output of 2.0 Amps. at 20.0 volts. |

- SUBJECT - Replacement for WE-179-A and WE-221-A Retard Coils.
- GENERAL - As the WE-179-A and WE-221-A Retard Coils are no longer available, all future orders for these components should specify
 1 - UTC - CG-45 Choke Coil
- INSTALLATION
 - File out terminal clearance hole in chassis to clear terminals of CG-45 Coil.
 - Using CG-45 Coil as a template, locate and drill 4 new mounting holes (#25 drill).
 - Mount using #6 - 32 x 1/2" RHIMS and nuts supplied.

May 19, 1947
 Replaces Reference Data -
 Coils and Transformers,
 May 1, 1939 and all issues
 of Apparatus Bulletin No. 1

Bell Telephone Laboratories, Inc.
 Apparatus Development Dept.
 Issued by N. Botsford, Dept. 2112

REFERENCE DATA

COILS AND TRANSFORMERS

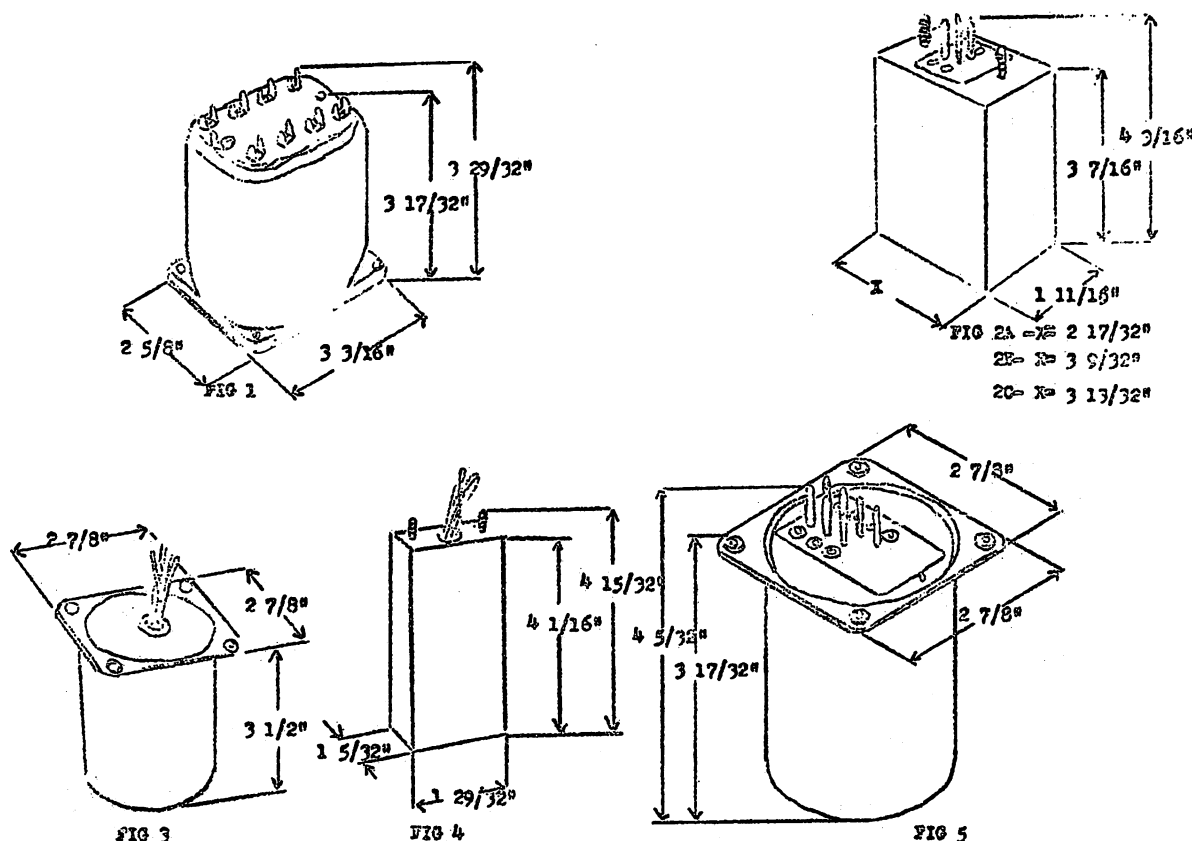
The attached tables contain a list of information on coded input transformers, output transformers, auto-transformers, plate and filament transformers, repeating coils, retardation coils, choke coils, frequency generators and current supply sets in good standing as of April 1, 1947. Additional codes issued since the last revision of the bulletin are included together with revised information on previous codes. Many items previously listed have been dropped because of obsolescence. This information is subject to change without notice and should be used for general reference only.

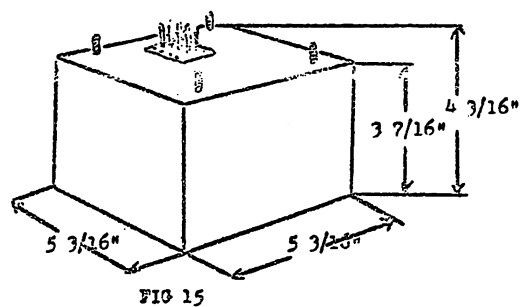
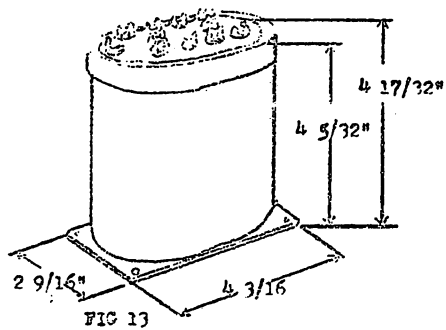
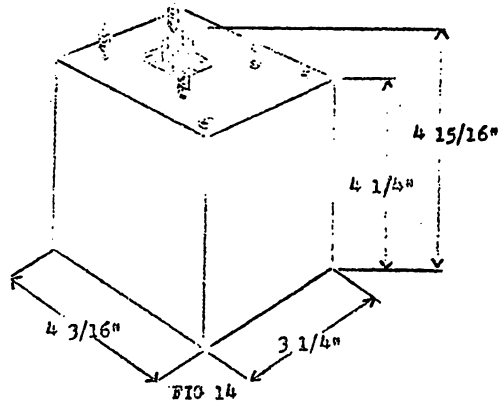
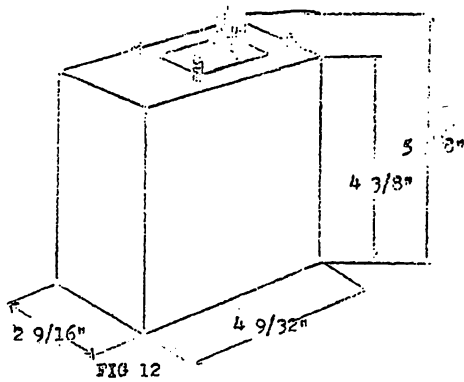
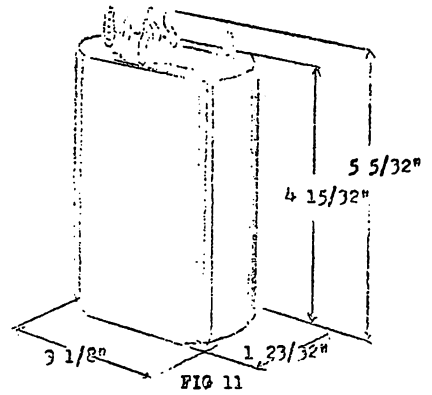
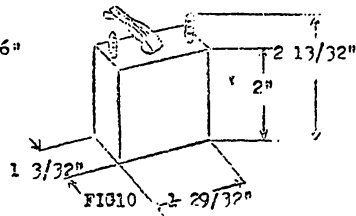
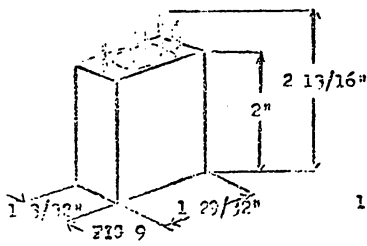
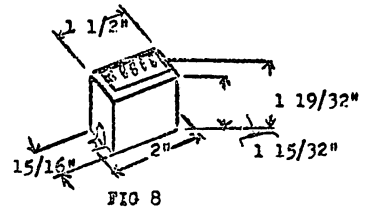
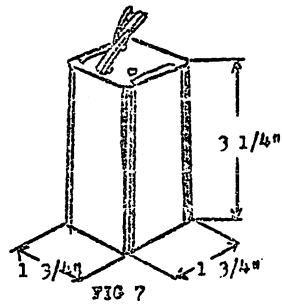
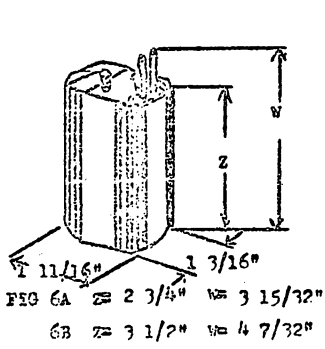
The information given herein is intended as an aid in preliminary development work and should not be used in selecting coils for final circuit arrangements as it is often possible to develop more efficient coil apparatus for the particular circuit conditions involved. Furthermore, some of the items listed may become obsolete or we may have designed or have under development coil apparatus more suitable for the purpose. In general, Department 2110 should be consulted in this regard before a final selection is made.

The information tabulated herein is not complete and does not include a variety of characteristics that are available through Department 2110. Such information as transmission, inductance stability, crosstalk balance, superimposed d-c effects, current carrying capacity, etc., may be obtained from Department 2110. This information has not been included because of the cost of compiling it and the great amount of space required for satisfactory tabulation.

Information on "D" specification coils has not been included because of the space required and the limited usefulness of the information. This information, on any particular coil, may be obtained from Department 2110 upon request.

All superseded pages of this information should be destroyed immediately.





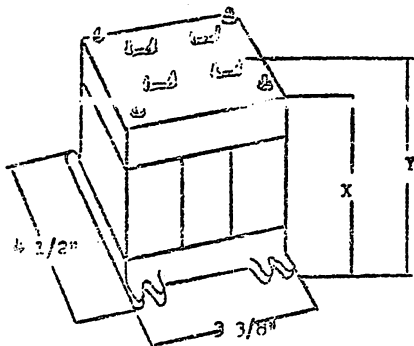


FIG 16A X= 3 25/32" Y= 45/32"
 16B X= 3 11/32" Y= 3 23/32"
 16C X= 3 19/32" Y= 3 31/32"
 16D X= 4 11/32" Y= 4 23/32"
 16E X= 4 27/32" Y= 5 7/32"

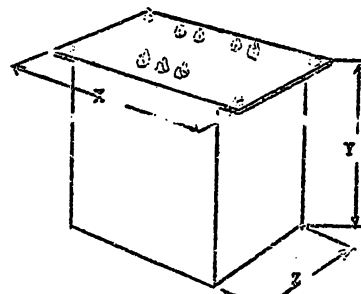


FIG 18A X= 5 1/2" Y= 4 9/16" Z= 3 9/16"
 18B X= 5 1/2" Y= 4 9/16" Z= 4 5/16"
 18C X= 5 3/8" Y= 4 21/32" Z= 4"
 18D X= 5 1/8" Y= 4 21/32" Z= 4"
 18E X= 4 3/8" Y= 4 11/16" Z= 4"
 18F X= 3 5/8" Y= 3 3/8" Z= 3 3/16"

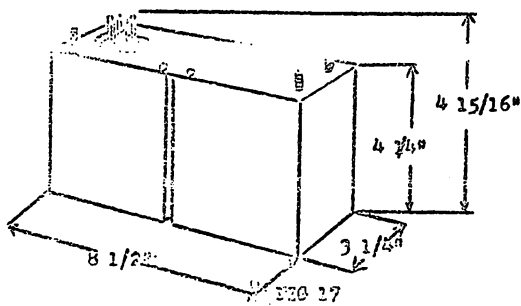


FIG 17

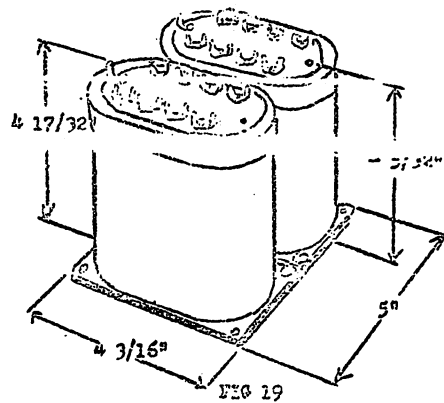


FIG 19

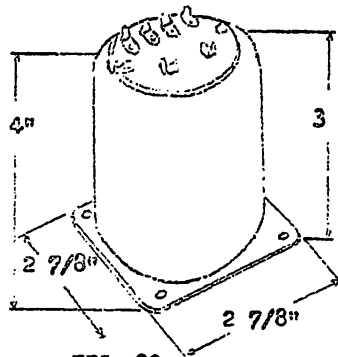


FIG. 20

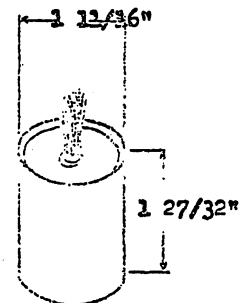


FIG 22

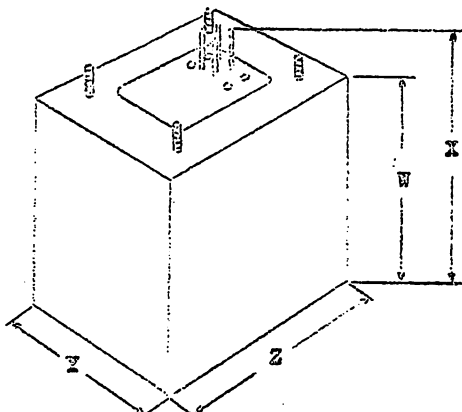


FIG 23A X=3 7/16" Y=4 3/16" Z=2 9/16" Z=3 13/32"
 23B X=3 15/16" Y=4 11/16" Z=2 3/32" Z=3 15/16"

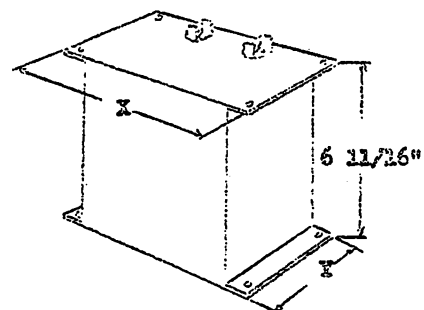


FIG 23A X=7 5/8" Y= 5 5/8"
 23B X=7 7/8" Y= 6 5/8"

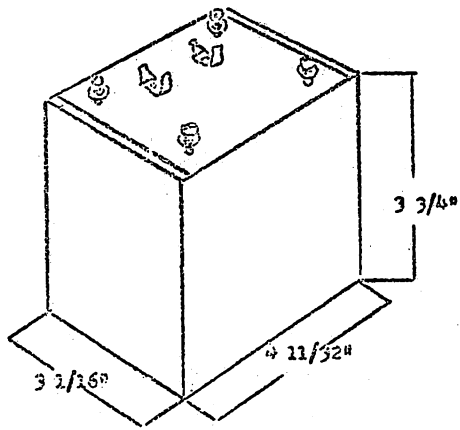


FIG 24

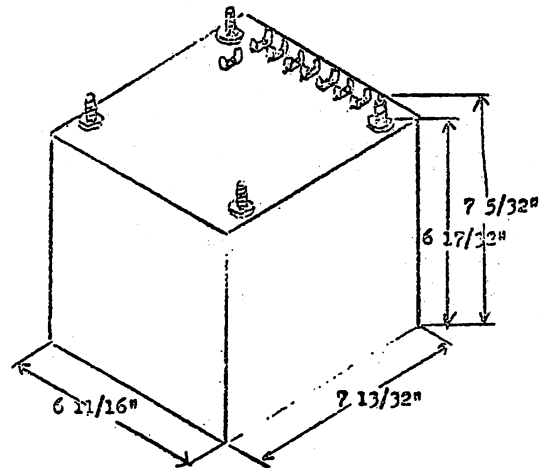


FIG 25

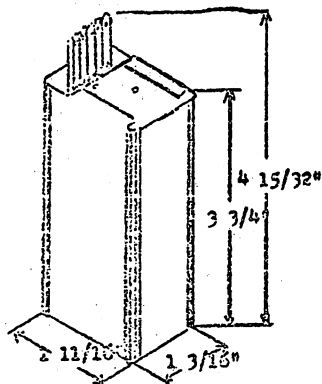


FIG 26

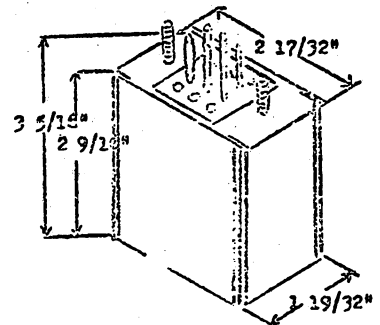


FIG 27

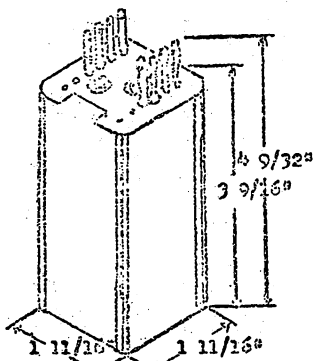


FIG 28

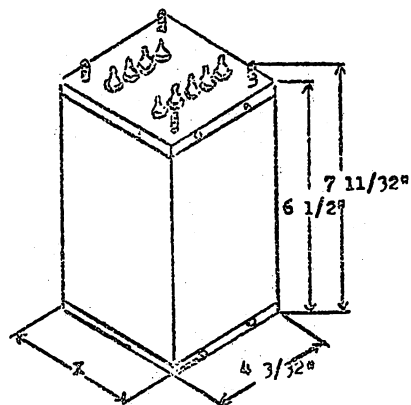


FIG 29A W= 2 11/16"
 29B D= 3 1/16"
 29C H= 6 1/2"

INPUT TRANSFORMERS

Sheet 1

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs. (Henrya) | Frequency Range (Cycles) | Size In. | Wt. lbs | Low Wdgs | High Wdgs |
|-------|-------------------|---------|-----------------|----------------------|-----------|---------------------------------|-----------------------------|-------------------------------|---------|--------------|--------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 210 G | W 3509 D 75397 | No | 1:1 | 5.6 | 6.0 | .053-.057 | 1200-4200 | 5-3/4 x 4-3/4 x 2-21/32 | 8 | 1-2 | 3-4 |
| 211 B | D 75396 | No | 1:1 | 13 | 18 | .367-.389 | 350-1200 | 8-3/8 x 8-3/8 x 4-1/2 | 20 | 1-2 | 3-4 |
| 211 C | W 3804 D 77098 | No | 1:1 | 50 | 320 | 2.45-2.60 | 100-350 | 8-3/8 x 8-3/8 x 4-1/2 | 20 | 1-2 | 3-4 |
| 223 B | - | E | 500:100000 | 46 | 10400 | .93 | 60-4000 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 221 B | W 5919 | No | 300:300000 | 57.2-76.3 | 10000 | .4-.7 | 200-3000 | Fig. 1 | 3.5 | 1-2 & 3-4 | 5-6 |
| 232 B | D 79173 | No | 1:1 | 7.5 | 73.5 | .00819 | 6000 | 2-5/8 x 5-7/16 x 5-7/16 | 6 | 1-2 | 3-4 |
| 233 D | W 6225 | No | 20000:50000 | 3480.0 | 5450.0 | 150.0 | 60-5000 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 233 F | | No | 500:14000 | 163.0 | 4465 | 10.2 | 60-5000 | Fig. 1 | 3.5 | 1-2 | 3-14 |
| 233 G | | No | 16000:64000 | 3000.0 | 5990 | 148.0 | 40-6000 | Fig. 1 | 3.5 | 2-2 & 5-6 | 3-4 & 7-8 |
| 233 H | W 6710 | No | 20000:180000 | 2000 | 6000 | 60 | 60-5000 | Fig. 1 | 3.5 | 1-2 | 3-4 & 7-8 |
| 233 K | W 7180 D 88431 | No | 4000:20250 | 2900 | 6500 | 120 | 20-10000 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 236 A | - | No | 1:1 | 52.5 | 325 | .160 | 600-8000 | 8-1/4 x 8-1/4 x 4-1/2 | 20. | 1-2 & 5-6 | 3-4 & 7-8 |
| 240 A | W 7098 | No | 1:28.5 | 185 | 6500 | 3.6 | Voice | 4-1/2 | | | |
| 240 A | W 7098 | No | 1:28.5 | 185 | 6500 | 3.6 | Voice | Fig. 1 | 3.5 | 1-2 & 3-4 | 5-12 |
| 240 H | - | No | 20000:500000 | 1750.0 | 12000 | 18.5 | Voice | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |

* E - Electrostatic Shield M - Magnetic Shield

INPUT TRANSFORMERS

Sheet 2

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs. (Henrya) | Frequency Range (Cycles) | Size In. | Wt. lbs | Low Wdgs | High Wdgs |
|-------|-------------------|---------|-----------------|----------------------|-----------|---------------------------------|-----------------------------|-------------|---------|--------------|---------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 241 A | W 6831 | No | 275:3370 | 71.0 | 1020 | 24.0 | 40-6000 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 241 B | W 7501 | No | 300:108000 | 20.6 | 5300 | 10 | 35-8500 | Fig. 1 | 3.5 | 1-2 | 3-4 & 5-6 |
| 241 C | W 7576 | E | 300:1200 | 184 | 1950 | 85 | 35-8500 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 241 D | W 7874 D 95658 | No | 250:30900 | 76.2 | 5420 | 23.7 | 50-10000 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 242 B | | | 600:80000 | 19 | 1930 | .091 | 720 | Fig 20 | 2.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 243 A | W 7133 | No | 6000:165000 | - | 10260 | 40 | 30-5000 | Fig 20 | 2.5 | 1-2 | 1-4 |
| 246 B | W 7167 D-87654 | No | 600:15000 | 320 | 3500 | 57 | 35-8000 | Fig. 1 | 3.5 | 1-2 | 3-4 |
| 246 C | W 20980 | No | 500:78000 | 47.5 | 3900 | 14.4 | 50-15000 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 247 A | W 7351 | No | 250:159000 | 86 | 6600 | 6 | 35-10000 | Fig. 20 | 2.50 | 1-2 & 3-4 | 5-6 |
| 247 B | W 7352 | No | 16000:100000 | 2325 | 6000 | 530 | 35-10000 | Fig. 20 | 2.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 247 C | W 7426 | No | 200:25000 | 47 | 4200 | 19 | 40-5000 | Fig. 20 | 2.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 247 M | W 8767 | No | 500:16300 | 17.2 | 2160 | 14 | 35-10000 | Fig. 20 | 2.50 | 1-2 & 3-4 | 5-6 |
| 249 A | W 7111 | No | 20000:50000 | 3480 | 5450 | 37.5 (1-2) | 60-5000 | Fig. 1 | 3.5 | 1-2 & 5-6 | 3-4 & 7-8 |
| 250 B | - | No | 60000:1500000 | 1090 | 7380 | 22 | 500-3000 | Fig. 1 | 3.5 | 1-2 | 3-4-5-6-7-8-9 |
| 253 A | W 7886 D 90339 | No | 100:160000 | 4.3 | 3450 | .4 | 250-3000 | Fig. 8 | .2 | 1-2 | 3-4 |

F - Electrostatic Shield M - Magnetic Shield

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdg (Henrys) | Frequency Range (Cycles) | Size In. | Wt. lbs | Low Wdg | High Wdg |
|--------|---------------------------------|---------|-------------------|----------------------|----------|----------------------------|-----------------------------|-------------|---------|-----------|-----------|
| | | | | Low Wdg | High Wdg | | | | | | |
| 255 D | W 8057 D 91916 | M | 600:29400 | 280 | 5100 | 50 | 35-8000 | Fig. 21A | 2.75 | 1-2 & 5-6 | 3-4 & 7-8 |
| 255 E | W 8069 D 91693 | M | 600:15000 | 360 | 3500 | 50 | 35-8000 | Fig. 21A | 2.75 | 1-2 | 3-4 |
| 255 H | W 9270 D 94623 | E | 300:7500 | 760 | 3840 | 80 | 35-8000 | Fig. 21A | 2.75 | 1-2 & 3-4 | 5-6 |
| 255 K | | No | 15000:110000 | 1760 | 5000 | 280 | 35-15000 | Fig. 21A | 2.75 | 1-2 | 3-4 & 5-6 |
| 255 L | W 9839 (Except D 95448 case) | No | 27.4:1 (Turns) | 150 | 4600 | 5.0 | 300 cycles | Fig. 21A | 2.75 | 1-2 | 3-5 |
| 255 M | W 9649 (Except case) | E | 300:307200 | 25 | 6700 | 5.0 | 1000-3000 | Fig. 21A | 2.75 | 1-2 & 5-6 | 3-4 & 7-8 |
| 250 A | W 8981 | M | 200:80000 | 58 | 7600 | .8 (1-2) | 100-7000 | Fig. 3 | 2.5 | 1-3 | 4-5 |
| 260 A | W 8982 | No | 18000:24000 | 3000 | 6900 | 60 | 100-7000 | Fig. 3 | 2.5 | 1-2 | 3-5 |
| *270 F | W 20649 | No | 600:405600 (11.0) | 11.0 (1-2) | 5860 | 3.0 | 200-3200 | Fig. 2B | 2.25 | 1-2 | 3-4 5-6 |
| 261 B | W 20649 | E & M | 200:110000 | 17.5 | 5100 | 3.8 | 35-10000 | Fig. 20 | 2.5 | 1-2 & 3-4 | 5-6 |
| 264 A | W 9609 | M | 25:150000 | 1.93 | 4620 | 0.4 | 20-10000 | Fig. 5 | 2.5 | 1-2 & 3-4 | 5-6 |
| 264 B | | M | 200:135000 | 17.5 | 5580 | 3.8 | 35-10000 | Fig. 5 | 2.5 | 1-2 & 3-4 | 5-6 |
| 264 C | W 20545 | No | 18000:100000 | 2330 | 5640 | 600 | 35-10000 | Fig. 5 | 2.5 | 1-2 | 5-6 & 3-4 |
| *270 E | W 20223 | No | 1000:5580 | 67.5 | 4500 | 30 | 50-8000 | Fig. 2B | 2.25 | 1-2 | 3-4 5-6 |
| 264 D | W 21776 D-98771 | No | 500:16300 | 17.4 | 2160 | 14 | 35-10000 | Fig. 5 | 2.5 | 1-2 & 3-4 | 5-6 |
| 266 C | W 21717 | No | 600:135000 | 55 | 8435 | 1.75 | 375-2350 | Fig. 21A | 3 | 1-2 & 5-6 | 3-4 & 7-8 |
| 266 D | | E | 200:100000 | 28 | 8000 | 160 (high side) | 100-5000 | Fig. 21A | 3 | 1-2 & 3-4 | 5-6 |
| 269 A | W 9919 | E | 200:110000 | 23.5 | 4630 | 4.9 | 35-10000 | Fig. 21A | 2.75 | 1-2 & 3-4 | 5-6 |
| 270 C | W 9968 | No | 15000:145000 | 1680 | 5300 | 290 | 35-10000 | Fig. 2B | 2.25 | 1-2 | 3-4 & 5-6 |
| 270 D | W 9980 | M | 600:88800 | 38 | 3800 | 10 | 30-8000 | Fig. 2B | 2.25 | 1-2 & 3-4 | 5-6 |

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdg (Henrys) | Frequency Range (Cycles) | Size In. | Wt. lbs | Low Wdg | High Wdg |
|-------|-------------------|---------|---|------------------------|-------------------------------|----------------------------|-----------------------------|---------------------------------|---------|-------------|-----------|
| | | | | Low Wdg | High Wdg | | | | | | |
| 270 G | W 22615 | E | 300:3000 | 67 (av) | 1729 (av) | | | Fig. 2B | 2.25 | 1-2 & 3-4 | 5-6 |
| 270 H | W 23837 | E & M | 300:7500 | 27 | 1400 | 18.0 | 100-3000 | Fig. 2B | 2.25 | 1-2 & 3-4 | 5-7 |
| 272 A | W 20025 | M | 600:120000 | 176 | 6600 | 2.9 | 100-5000 | Fig. 5 | 2.5 | 1-2 & 3-4 | 5-6 |
| 272 B | | No | 500:100000 | 176 | 6600 | 2.9 | 30-7000 | Fig. 5 | 2.5 | 1-2 & 3-4 | 5-6 |
| 272 C | | No | 20000:180000 | 2000 | 6000 | 60 | 60-5000 | Fig. 5 | 2.5 | 1-2 | 3-4 & 5-6 |
| 273 A | W 20049 | No | 10000:140000 | 2520 | 9500 | 29.0 | 100-5000 | Fig. 5 | 2.5 | 1-2 | 3-4 & 5-6 |
| 274 A | | E | 675:161000 | 65 | 5570 | 1.5 | 1000-10000 | Fig. 2B | 2.25 | 1-2 & 3-4 | 5-6 & 7-8 |
| 274 B | W 9528 D 94622 | No | | | | .238 (1-2) | 1000 | Fig. 2B | 2.25 | (5-6) | |
| 274 C | W 25513 | No | Turns Ratio 3.90:1 (6-8): (1-2) 3.42:1 (6-8): (3-5) | 150 (1-2) 717 (3-5) | 610 | 21.4 (High Slide) | 80 | Fig. 2B | 2.25 | 1-2 & 3-5 | 6-8 |
| 276 A | | No | 20000:605000 | 1159 | 8400 | 30 | 100-5000 | Fig. 2B | 2.25 | 1-2 & 5-6 | 3-4 & 7-8 |
| 277 C | W 9979 | E | 600:53500 | 22 | 2100 | .350 | 300-400 | Fig. 21A | 3 | 1-2 & 3-4 | 5-6 |
| 278 A | W-20987 Mod. | No | | 41 | 100 (5-6) 425 (3-4) 736 | .0055 | 800 cycles | 1 49/32 x 1 1/2 x 3 1/2 | .5 | 1-2 | 3-4 & 5-6 |
| 278 C | W 24612 | No | 1:1 | 145 | | | 6000 | 1 9/32 x 1 1/2 x 3 1/2 | .5 | 1-2 | 3-4 - 5-6 |
| 279 A | W 20669 | No | 125:138000 | 11.8 | 7270 | 0.16 | 200-5000 | Fig. 10 | .50 | 1-2 | 3-4 |
| 280 A | | E | 300:30000 | 110. | 4500 | 0.77 | 60-5000 | Fig. 21A | 2.75 | 1-3 & 5-6 | 3-4 & 7-8 |
| 281 A | | No | 500:100000 | 176 | 6600 | 2 | 30-7000 | Fig. 21A | 2.75 | (1-2 & 3-4) | 5-6 |
| 282 A | W 21523 | No | 600:240000 | | | | 200-3000 | Fig. 7 | 1 | 1-2 | 3-4 |
| 282 B | W 21707 | No | 600:120000 | 90 | 5680 | 1.32 | 100-5000 | Fig. 7 | 1 | 1-2 | 3-4-5 |
| 282 C | W 22866 | No | 3000:1500 | | | | 100-7000 | Fig. 7 | 1 | 5-6 | 1-2-3 |
| 283 A | W 21394 | No | 1:52 | 0.2 | 10.6 | .000435 | 10200-10400 | Fig. 2B | 1.2 | 1-2 | 3-4 |
| 284 A | W 9541 | M | 400-116000 | 125 | 5500 | 4.5 | 60-10000 | 2 19/32 x 1 1/4 x 2 19/32 | 2.5 | 1-2 | 3-4 |
| 285 A | W 21563 | M | 20:200000 | 5.7 | 5060 | 0.45 | 100-6000 | Fig. 7 | 1.25 | 1-2 | 3-4 |
| 285 B | W 21564 | No | 16000:237000 | 990. | 5330 | 150 | 50-7000 | Fig. 7 | 1.25 | 1-2 | 3-4 & 5-6 |

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdgs. (Henrys) | Frequency Range (Cycles) | Size In. | Wt. lbs | Low Wdgs. | High Wdgs. |
|-------|--------------------|---------|-------------------------|-----------------------|--------------|----------------------------------|---|----------------------------------|---------|----------------|---------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 285 C | W 21817 | E - M | 500:60000 25:60000 | 48.7 | 3480 | 9.8 | 100-8000 | Fig.7 | 1.25 | 1-4 | 5-5 |
| 285 E | W 22255 | E & M | 600:25000 | 27 | 1170 | 14.0(av) | 35-10000 | Fig.7 | 1.25 | 1-2 3-4 | 5-6 |
| 285 F | W 22669 | E & M | 250:165000 30:165000 | 21.5(1-3) 3.35(12) | 4000 | 3.8 | 30-10000 | Fig.7 | 1.25 | 1-2-3 | 5-6 |
| 285 G | W 22824 | No | 142:70000 | 17. | 3715 | 4.5 | 35-10000 | Fig.7 | 1.25 | 1-2 | 3-4 5-6 |
| 285 H | W 22831 | E & M | 200:110000 | 14.2 | 3590 | 4.0 | 35-10000 | Fig.7 | 1.25 | 1-2(3-4)(5-6) | |
| 285 J | W 22830 | No | 13500:100000 | 1565 | 4035 | 360 | 35-10000 | Fig.7 | 1.25 | 1-2(3-4 & 5-6) | |
| 285 K | W 22927 | E & M | 15000:100000 | 650 (av) | 2700 (av) | 230 (av) | 50-10000 | Fig.7 | 1.25 | 1-2 | 3-4-5 |
| 285 L | W 22913 | E & M | 600:75000 30:75000 | 63.(av) 3.1(av) | 2275(av) | | 30-10000 | Fig.7 | 1.25 | 1-4 2-3 | 5-6 |
| 285 N | W 23793 | E & M | 14:20000 | | | | | Fig.7 | 1.25 | 1-2 | 3-4 |
| 285 P | W 23524 | E & M | 500:200000 | 36.3 | 3150 | 7.04 | 40-10000 | Fig.7 | 1.25 | 1-2 | 3-5 6-8 |
| 285 R | W 33527 Mod. | E & M | 250:50000 30:50000 | 23 | 2260 | | 35-15000 | Fig.7 | 1.25 | 1-2-3 | 4-5-6 & 7 |
| 285 S | W 34575 | E & M | 600:25000 | 60(av) | 1100(av) | | 50-10000 | Fig.7 | 1.25 | 1-3 | 4-5 |
| 285 A | W 21579 | No | 1000:5900000 | 11.8 | 8050 | 0.5 | 60-1000 | 1 1/2 x 2 13/32 | | | |
| 287 A | W 21559 | No | 20000:720000 | 795 | 6890 | 23 | 375-2350 | x 2 9/16 .75 Fig.2B | 2.25 | 1-2 | 3-4 7-8 |
| 287 B | W 22015 D 99164 | E | 1600:500000 | 109 | 6930 | | 230-3000 | Fig.2B | 2.25 | 1-2 | 3-4 5-6 |
| 288 A | W 21773 | No | 15000:67000 | 1725 | 4680 | 110. | 50-6000 | Fig.7 | 1 | 1-2 | 3-4-5 |
| 288 B | W 22010 | No | 600:300000 | 55.3 | 5190 | 2.67 | 400-3000 | Fig.7 | 1 | 1-2 | 3-4 |
| 288 D | W 22668 | E & M | 200:120000 | 37 | 3900 | 1.3(av) | 50-7000 | Fig.7 | 1 | 1-2 | 3-4-5 |
| 288 E | W 22665 | M | 100:50000 | 32(av) | 3600(av) | | 100-7000 | Fig.7 | 1 | 1-2 | 3-4 5-6 |
| 289 A | W 21758 | No | | 12(5-6) | 30 | .00198 | | 1 7/32 x 1 27/32 x 2 19/32 .5 | | 5-6 1-2 | 3-4 |
| 291 A | W 20900 D 97439 | E | 600:600 | 13(1-2) 50 | 180 | 3.0 | 60000-108000 (suppresses) 200-3100(transmits) | Fig.2B | 2 | 1-2 | 3-4 |

* E - Electrostatic Shield M - Magnetic Shield

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdgs. (Henrys) | Frequency Range (Cycles) | Size In. | Wt. lbs | Low Wdgs. | High Wdgs. |
|-------|--------------------|---------|-----------------|----------------------|-----------|----------------------------------|-----------------------------|---------------------------------|---------|-------------------------|---------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 292 A | W 21663 | E | 600:30000 | | 205 | | 64000-108000 | Fig.2B | 1.4 | 1-2 | 3-4 |
| 292 B | W 22378 | E | 125:11000 | | 50 | | 30800-544000 | Fig.2B | 1.4 | 1-2 | 3-4 5-6 |
| 292 C | W 22348 Mod | E | 125:15000 | 1.0 | 45. | | 490000-445000 | Fib.2B | 1.4 | 1-2 | 3-4 |
| 292 F | W 21571 D 98328 | E | 600:140000 | 1.1 | 50 | | 120000 | Fig.2B | 1.4 | 1-2 | 3-4 |
| 292 G | W 22447 | E | 125:20000 | | 145 | | 92000-143000 | Fig.2B | 1.4 | 1-2 | 3-4 |
| 292 H | W 26703 | E | 135:40000 | 1.25 | 130 | .063 (High Side) | 64000 | Fig.2B | 1.4 | 1-2 | 3-4 5-6 |
| 293 A | W 22050 | E | 140:30000 | 2.5 | 450 | | 12000-60000 | 1 11/16 x 3 13/32 x 4 3/8 | 2.25 | 1-2 | 3-4 5-6 |
| 294 A | W 21626 | No | 1:1 | 1200 | 5250 | .0586 | 60000-108000 | 1 9/32 x | .525 | 1-2 | 3-4 |
| 294 B | W 20931 | No | 1:1 | 1600 | 1600 | .109 | 35000-150000 | 1 1/2 x 3/32 1 9/32 x | .525 | 1-2 | 3-4 |
| 294 C | W 22366 | No | 1:1 | 180 | 180 | .00380 | 300000-550000 | 1 1/2 x 3 1/2 | .525 | 1-2 | 3-4 |
| 294 D | W 22369 | No | 1:1 | 50 | 50 | .00168 | 300000-550000 | 1 9/32 x 1 1/2 x 3 1/2 | .525 | 1-2 | 3-4 |
| 295 A | W 22229 | E | 200-600:450000 | .8(2-3) 2.5(3-4) | 22300 | .00182(3-4) | 12000-60000 | 1 11/16 x 4 15/16 x 4 3/8 | 2.8 | 2-3-4 | 5-6 |
| 296A | W 22245 | No | 4:1(Turns) | .2 | .5 | Turned Single Freqs. | | 2 9/16 x 4 1/8 x 3 13/16 | .75 | 1-2 | 3-4 |
| 297 A | W 21867 | E | 250:25000 | 1.0 | 25 | | 50000-650000 | | | | |
| 298 B | W 24190 | E | 135-67.5:7500 | .25(1-2) .25(3-4) | 33 | .25 (High Side) | 650000 35000-150000 | 3 x 1 7/16 x 3/38 Fig.21A | 1 | 1-2 1-1T-2 3-3T-4 | 3-4 5-6 |
| 299 A | W 22075 D 99313 | No | I | 1.25 | 25.0 | | | Fig.21A | .75 | 1-4 | 5-6 |
| 600 A | W 22626 | E | 600:450000 | 14.4 | 3610 | | 4000-10000 | Fig.2B | 2.25 | 1-2 | 3-4 |
| 600 C | W 23916 | No | 1:3.16(Turns) | 241 | 147 | .54 | 200-3000 | Fig.2B | 2.25 | 1-2 | 3-4 |

* E - Electrostatic Shield M - Magnetic Shield

Transformers

INPUT TRANSFORMERS

Sheet 7

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdg. High Wdg. (Henry's) | Frequency Range (Cycles) | Size In. | Weight lbs. | Low Wdg. | High Wdg. |
|-------|--------------------|---------|-----------------|--------------------------------|----------------------|---|-----------------------------------|---------------------------------|----------------|------------------|-------------------------------|
| | | | | Low Wdg. | High Wdg. | | | | | | |
| 602 A | W 22979 | No | 1:1 (Turns) | 1200(av) | 1550(av) | | 1300 | Fig.11 | 2.2 | 1-2 | 3-4-5-6 |
| 602 B | W 21321 D 98822 | E | 30000:100000 | 15 | 63 | | 4000 | Fig.11 | 2.2 | 1-2 | 3-4-5 |
| 602 C | W 23972 | No | 600:190000 | 3.0 | 4650 | | 1000 | Fig.11 | 2.2 | 1-2 | 3-4 & 85-6 7-8 |
| 602 D | W 24313 | No | 1:1 (Turns) | 375(av) | 515(av) | 10(av) | 1800 | Fig.11 | 2.2 | 1-2 | 3-4-5-6 |
| 603 A | W 22931 | No | 600:150000 | 11.5 (1-2) 11.5 (3-4) | 7430 | | 250-2800 | Fig.11 | 2.2 | 1-2 | 5-6 83-4 |
| 603B | W 21322 D 98821 | E | 1200:4800 | 35 | 95 | .13 | | Fig.11 | 2.2 | 1-2 | 3-4 |
| 604A | W 22905 | No | 1:1 11 | 11100 | 102000 | (0.88(1-2) & (3-4) in parallel .0160 | 5000-30000 | 1 11/16 x1 11/16 x6 13/32 | .75 | 1-2 | 3-4 5-6 |
| 605A | W 22658 | E | 400+600:450000 | 5.1 | 25000 | | 5000-30000 | 2 1/16 x 3 9/32 x 3 7/16 | 2.25 | 1-1T-2 3-2T-4 | 5-6 |
| 605B | W 29163 | E | 8000:8000 | 110 | 100 | | 1000-150000 | Fig.2B | 2.25 | 1-2 | 5-6 3-4 |
| 606A | W 23729 | No | | .8 | .5(1-2) 1.6(3-8) | .0113(3-4) | Tuned Single Freq. 6000-13000 | Fig.21A | 2 | 9-14 (output) | 1-2 Plate 3-8 Osc. |
| 607 A | W 22730 | No | | .75 | .65(1-2) 3.0(3-8) | .002955(3-4) | Tuned Single Freq. 17500-30000 | Fig.21A | 2 | 9-14 (output) | 1-2 Plate 3-8 Osc. |
| 608 A | W 23170 | No | 300:30000 | 34(av) | 2330(av) | 14.0 | 30-8000 | 3 7/16 x 4 4.5 7/8 x 4 3/8 | 6.0 | 1-2 | 3-4 & 7-8 5-6 |
| 609 A | W 23171 | No | 2000000:2000000 | 9000 | 9000 | 320 | 30-8000 | 3 7/16 x 4 7/8 x 4 3/4 | 6.0 | 1-2 | 3-4 & 7-8 5-6 |
| 610 A | W 23755 | No | 350:40000 | 140(av) | 2950(av) | | 200-5000 | 1 3/4 x 1 3/4 x 2 1/4 | .75 | 1-2 | 3-4 |
| 611 A | W 22999 | No | 3.8:1 (Turns) | 4.0(3-4) | .8(1-2) 10.4(5-7) | .000123(3-4) | Tuned 30000-40000 | 3 7/8 x 2 3/4 x 4 13/16 | 1.75 | 3-4 (osc) | 1-2 (plate) 5-6-7 (output) |
| 612 A | W 24024 | E | 135:300000 | .5 | 360 | | 61000 | 1 11/16x 3 9/32x 5 1/8 | 2 | 1-2 | 3-4 |

Sheet 8

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdg. High Wdg. (Henry's) | Frequency Range (Cycles) | Size In. | Weight lbs. | Low Wdg. | High Wdg. |
|-------|---------------|---------|--------------------------|----------------------|-----------|--|--------------------------------------|----------------------------------|----------------|----------------|------------------|
| | | | | Low Wdg. | High Wdg. | | | | | | |
| 613 A | W 24014 | E | 135:40000 | 2.5 | 500 | | 28000&40000 | 1 11/16 x 3 9/32 x 5 1/8 | 2.25 | 1-2 | 3-4 |
| 614 A | | No | 2.7:1 (Turns) | .6 | 1.7 | 164 Microhen (3-4) | Tuned 100850 or 89150 | 2 9/16 x 9 9/16 x 3 7/16 | .75 | 1-2 | 3-4 |
| 615 A | | E & M | 30:125000 250:125000 | 28.2 | 3500 | 6.4 | 30-10000 | 2 x 2 x 3 9/16 | 1.75 | 1-2-3 | 5-6 |
| 616 A | W 22783 | M | 25:250000 | 3.3 | 5160 | .03 | 300-5000 | 1 3/4 x 1 5/32 x 1 2 1/32 | .25 | 1-2 | 3-4 5-6 |
| 617 A | W 22996 | No | 450:700 | 69 | 86 | 1.02 (High Side) | 300-5000 | Fig.7 | 1 | 1-2-3 | 4-5 |
| 618 A | | H | 120:55000 | 25(av) | 3400(av) | 2.3(av) | 30-15000 | Fig.22 | .25 | 1-2 | 5 5-6 3-4 |
| 618 B | W 25058 | M | 600:25000 30:25000 | 214.0 8.9 | 2680 | 19(av) (1-3) | 30-15000 | Fig.22 | .25 | (1-3) (1-2) | 5-7 (1-5) |
| 613 C | W 25635 | M | 15000:80000 500:80000 | 1024 219 | 3634 | | 50-10000 | Fig.22 | .25 | (1-3) (1-2) | (1-5) |
| 618 D | W 34073 | E & M | 600:75000 | 104(av) | 3800(av) | 12.0(av) | 50-10000 | Fig.22 | .25 | 1-3 | 4-5 6-7 |
| 619 A | W 24519 | E | 25000:175000 | 17 | 150 | | Tuned Single Freq. 56000-80000 | 1 11/16 x 2 17/32 x 3 7/16 | 1.2 | 1-T-2 | 3-4 |
| 619 B | W 24520 | E | 25000:175000 | 10 | 100 | | Tuned Single Freqs. 92000-143000 | 1 11/16 x 2 17/32 x 3 7/16 | 1.2 | 1-T-2 | 3-4 |
| 619 C | W 26618 | E | 100:300000 150:300000 | .18(1-2) .22(3-4) | 43 | .023 (5-6) | 128000 | 1 11/16x 2 17/32x 3 7/16 | 1.2 | 1-2 | 5-6 3-4 |
| 620 A | W 25025 | E | 60000:420000 | 23 | 220 | | 40000 | 1 11/16x 2 17/32x 3 7/16 | 1.2 | 1-T-2 | 3-4 |
| 621 A | W 24174 | E | 125:50000 | .2 | 75 | | 308000-364000 | 1 11/16 x2 17/32 x 3 7/16 | 1.2 1.2 | 1-T-2 | 3-4 3-4 |
| 622 A | W 25340 | No | 10000:100000 | 40 | 145 | | Rising character- istic to 100000 | 1 3/4x 1 13/16 x 2 1/4 | | Red-Red Wh. | Blue-Blue Wh. |

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. | Frequency Range | Size | Weight | Low | High |
|-------|----------------------------|---------|--|------------------------|----------|------------------|--|--|--------|-------------|------|
| | | | | Low Wdg | High Wdg | Low Wdg (Henrys) | | | | | |
| 623 A | W 24137 D 157242 | E | 500:120000 500:600 | 37 | 8970 | 2 | Voice | Fig. 11 2.5 | 1-2 | 5-9 | |
| 624 A | W 23223 | No | 1:1 | 50 | 350 | 1.96 | 85 | 6 15/16 17.5 x 6 15/16 x 3 7/16 4 3/8 | 1-2 | 3-4 | |
| 625 A | W 25235 | E | 1600:100000 | | 900 | | 12000, 28000 & 56000 | 3 13/32 x 2 1 11/16 x | 1-2 | 3-4 | |
| 626 A | W 26216 | No | 300:357000 | 9 | 4210 | | 250-3000 | Fig. 28 1.25 | 3-9 | 1-7 | |
| 626 B | W 26550 | E | 300:30000 | 3.4 | 240 | | 6000-64000 | F Fig. 28 1.25 | 1-2 | 7-8 | |
| 626 C | W 27371 | E | 550:240000 | 4.8 | 5400 | 2.0 | 270 | Fig. 28 1.25 | 1-2 | 3-4-5-6-7 | |
| 626 D | W 33982 | No | 1000:3200 | 200 | 890 | 8.0 | 600-1800 | Fig. 28 1.25 | 1-2 | 3-4 | |
| 626 E | W 34615 | No | 300:300 (1-2) (3-4) 300:140000 (1-2) (7-11) | 47.5 (12) 185 (3-4) | 4885 | 1.2 | 200-3500 | Fig. 28 1.25 | 1-2 | 7-8-9-10-11 | |
| 627 A | W 23410 D 156204 | No | 1:1 (Turns) | 67 | 182 | .388 | Voice | Fig. 15 8.5 | 1-2 | 3-4 | |
| 627 B | W 23411 (D156205) | No | 1:1 (Turns) | 2.5 | 10.8 | .0149 | Voice | Fig. 15 6.75 | 1-2 | 3-4 | |
| 627 C | W 22311 D 156206 | No | 1:1 (Turns) | 15.7 | 86.5 | .0995 | Voice | Fig. 15 7.25 | 1-2 | 3-4 | |
| 627 D | W 22333 D 156207 | No | 1:1 (Turns) | 4.4 | 18 | .0258 | Voice | Fig. 15 7.25 | 1-2 | 3-4 | |
| 628 A | W 24054 D 157603 | F | 600:25000 | 55 | 2900 | 1.5 | 255-3145 | Fig. 2A 1.25 | 1-2 | 3-4 | |
| 629 A | W 26050 | No | 20000:80000 | 1380 | 3800 | 15 | 200-300 | Fig. 26 .5 | 1-2 | 3-4 | |
| 630 A | W 26165 Mod. | E & M | 500:250000 | 18.5 | 4500 | 5 | 100-4500 | Fig. 5 2 | 1-2 | 3-4 & 5-6 | |
| 631 A | W 21892 Mod. D 93974 | No | 60000:540000 | 1000 | 3130 | 43 | 200-4000 | 3 5/8 x 2.75 3 3/16 x 3 3/8 | 1-2 | 3-4 | |
| 632 A | W 26651 | No | 1:1 (Turns) | 47 | 182 | .776 | Operates as an Osc. coil at 250 cps | Fig. 15 9.25 | 1-2 | 3-4 | |
| 633 A | W 26648 | E & M | 40000:80000 | 1450 | 2760 | | | Fig. 28 1.25 | 1-2 | 3-4 7-8 | |
| 633 B | W 26650 | E & M | 100:200000 | 1.81 | 3290 | | | Fig. 28 1.25 | 1-2 | 3-4 7-8 | |
| 633 C | W 26636 | E & M | 600:75000 | 73 | 2620 | | 40-8500 | Fig. 28 1.25 | 1-2 | 7-8 | |
| 634 A | W 27693 | No | .95 | 5200 | | 10.5 | 700-1700 | Fig. 28 1.5 | 1-2 | 3-4 7-10 | |
| 637 A | W 26633 | E | 144:4000 | .25 | 3.1 | | Tuned single freq. 620000 & 2350000 | Fig. 2A 1 | 1-2 | 3-4 | |
| 638 A | W 31375 | No | 4000:160000 | .070 | 1.2 | 4.5 Microhen | 2064000 2 diam x 4 13/32 hi | | 1-2 | 3-4 | |
| 638 B | W 31376 Mod. | No | 4000:25000 | .06 | .3 | 2.1 Microhen | 3095000 2 diam x 4 13/32 hi (.5) | | 1-2 | 3-4 | |

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. | Frequency Range | Size | Weight | Low | High |
|-------|---------------------|---------|-----------------------------------|----------------------|--------------------------|-----------------------------|--|--|--------|--|-----------------|
| | | | | Low Wdg | High Wdg | Low Wdg (Henrys) | | | | | |
| 633 G | W 31047 | No | 2000:100000 | | 70 | | 64000 | 2 diam x 4 13/32 hi | .5 | 1-2 | 3-4 |
| 638 D | W 32158 | No | 5000:300000 (1-4): (5-6) | 1.8 (1-2) | 21 | .0033 (3-6) | 556000 | 2 diam x 4 13/32 hi | .5 | 1-2 | 3-4 |
| 639 A | W 32627 | No | 50000:50000 | 11.5 | 11.5 | 145 microphen | 2064000 | 2 17/32 x 1 31/32 x 2 7/16 | .75 | 1-2 | 3-4 |
| 639 B | W 32028 | No | 50000:50000 | 2.8 | 2.8 | 78 | 3096000 | 2 17/32 x 1 31/32 x 2 7/16 | .75 | 1-2 | 3-4 |
| 639 C | W 31139 | No | 100000:100000 | 650 | | .11 (1-2) 1052 (3-4) | 64000 | 2 17/32 x 1 31/32 x 2 7/16 | .75 | 1-2 | 3-4 |
| 639 D | W 31233 | No | 100000:100000 | 13 | 13 | | 556000 | 2 21/32 x 1 31/32 x 2 7/16 | .75 | 1-2 | 3-4 |
| 640 A | W 28976 D 161397 | No | 300:120000 | 92 | 9800 | 300-420 | 200-3000 | 2 9/16 x 2 17/32 x 3 7/16 | 3.25 | 1-2 | 5-6 |
| 642 A | W 29165 | No | 4:1 (Turns) | 3 | 2 | 212 micro- hen (hi side) | any single frequency bet. 463000 & 605000 | 1 19/32 x 2 17/32 x 2 9/16 | .75 | 1-2 | 3-4 |
| 643 A | W 29466 | No | 300:357000 | 17.8 | 8630 | | 250-3000 | Fig. 2B 2 | | 3-9 | 1-7 |
| 644 A | W 30109 | No | 1:1.7 (1-2): (5-7) | 4 | .8 | .000577 (hi side) | (1-2) tuned to either 28150 39850 or 144000 | Fig. 12 ex- cept mag. lugs on both can | 4 | 3-4 | 1-2 |
| 645 A | W 34022 | E | 4000:4000 | 0.10 | 0.10 | 1.45 microhen | 15,000,000 | 1 3/32 x 1 3/4 x 1 11/16 | .25 | 1-2 | 3-4-5 |
| 646 A | W 34013 | No | 1:6 (Turns) | 8 | 66 | 1.5 (hi side) | Voice | Fig. 25 except 3 1/2" hi | .5 | 1-2 | 3-4 |
| 647 B | W 34707 | E | 160000:600+600 1000000:600+600 | 52 | 2030 7500 | .48 | 200-3000 | Fig. 11 2.25 | | 1-2, 3- 4, 5-6 1-2, 3- 4, 5-6 | 9-10, 11 7-8 |
| 650 A | W 34303 | No | | .23 | 2.0 (1-2) 5.35 (1-3) | .0517 (1-2-3) | 5000 (tuned) | 1 11/16 x 1 11/16 x 2 21/32 | | .5 | 1-2-3 |
| 651 A | W 34084 | No | | .15 | 1.0 (1-2) 2.75 (1-3) | .006435 (1-2-3) | 25000 (tuned) | 1 9/16 x 1 7/16 x 2 (6 oz) | 3/4 | 5-6 | 1-2-3 |
| 652 A | W 34085 | No | | .11 | 1.05 (1-2) 2.10 (1-3) | .001404 (1-2-3) | 150000 (tuned) | 1 9/16 x 1 7/16 x 2 3/4 | | 5-6 | 1-2-3 |

*E - Electrostatic Shield M - Magnetic Shield

INPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henrys) | Frequency Range (Cycles) | Size In. | Weight lbs. | Low Wdgs | High Wdgs |
|-------|---------------|---------|-----------------|--------------------------|-----------|--------------------------------|-----------------------------|----------|----------------|-------------|--------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 653 A | W 34135 | No | .2 | 3.5 (1-2) 9.3 (1-3) | | | 200000-250000 (Tuned) | | .25 | 5-6 | 1-2-3 |
| 653 B | W 34136 | No | .26 | 2.65 (1-2) 9.5 (1-3) | | | 300000-600000 (Tuned) | | .25 | 5-6 | 1-2-3 |
| 653 C | W 34137 | No | .06 | .5 (1-2) 1.7 (1-3) | | | 600000-1200000 (Tuned) | | .25 | 5-6 | 1-2-3 |
| 653 D | W 34138 | No | .04 | .35 (1-2) .9 (1-3) | | | 1200000-2500000 (Tuned) | | .25 | 5-6 | 1-2-3 |
| 653 E | W 34139 | No | .04 | .18 (1-2) .25 (1-3) | | | 2500000-5000000 (Tuned) | | .25 | 5-6 | 1-2-3 |
| 653 F | W 34140 | No | .03 | .035 (1-2) .035 (1-3) | | | 5000000-10000000 (Tuned) | | .25 | 5-6 | 1-2-3 |

* E - Electrostatic Shield M - Magnetic Shield

OUTPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henrys) | Frequency Range (Cycles) | Size In. | Weight lbs. | Low Wdgs | High Wdgs |
|--------|-------------------|---------|---------------------|-------------------------------|-----------|--------------------------------|-----------------------------|-----------|----------------|---|--------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 104 T | W 3723 | E | 18000:600 | 52 | 335 | .75 | 200-3000 | Fig.13 | 4.5 | 1-2& 3-4& 5-6 7-8 | |
| 104 Y | W 249 | No | 6000:40 6000:700 | 9-10-20 3-4 & 7-8-35 | 225 | 1.6 | 200-3000 | Fig.13 | 4.5 | 9-10 1-2& Mon 5-6 3-4 & 7-8 | |
| 104 AC | W 5444 D 79129 | E | 12000:600 | 72 | 438 | 1.3 | 200-3000 | Fig.13 | 4.5 | 1-2& 3-4& 5-6 7-8 | |
| 104 AD | D 79130 | E | 600:600+600 | 127 | 180 | 1.5 | 200-3000 | Fig.13 | 4.5 | 1-2& 3-3T-1 5-6 7-5T-1 1-2& 3-4&7- 5-6 | |
| 104 AE | - | E | 5300:600 | 31 | 280 | 1.5 | 35-5000 | Fig.13 | 4.5 | 1-2& 3-4&7- 5-6 | |
| 104 AG | W 8133 | No | 6000:3.75 | .32 (3-4 & 7-8) 7.3 (9-10) | 272 | 11 (hi side) | 200-3000 | Fig.13 | 4.5 | 3-4& 1-2& 7-8 5-6 9-10 | |
| 104 AH | W 8268 | No | 6000:46 | 5 (3-4 & 7-8) 7.2 (9-10) | 264 | 12 (hi side) | 150-5000 | Fig.13 | 4.5 | 3-4& 1-2& 7-8 5-6 | |
| 106 D | W 230 D 12037 | No | 6000:50 | 2.2 | 257 | .10 | 200-3000 | 6x4x2 1/2 | 3.5 | 3-4& 1-2& 7-8 5-6 | |
| 121 B | W 7420 D 88439 | E | 961:1 | .36 | 38.0 | .00048 | 1000-8000 | Fig.13 | 3.5 | 1-2T- 2&5-5T -6 3-3T-4 7-5T-6 | |
| 122 B | W 5794 | E | 2000:600 | 95 | 360 | 1.95 | 50-3000 | Fig.1 | 3.5 | 1-2& 3-4& 5-6 7-8 | |
| 123 A | - | No | 80000:600 | 80.0 | 8400 | 1.95 | 100-5000 | Fig.1 | 3.75 | 1-2 3-4 | |
| 123 G | W 7427 | No | 6000:600+600 | 20 | 325 | 1.2 | 100-3000 | Fig.1 | 3.5 | 9-10 2-5 Non. 3-4 & 7-8 | |
| 127 A | W 6922 | No | 8000:500 | 67.4 | 1062 | 2.90 | 40-6000 | Fig.1 | 3.5 | 1-2-3-4 5-6&7- 8 | |
| 127 C | Sig. to W 7050 | No | 23000:50 | 77 | 3700 | 4.8 | 60-5000 | Fig.1 | 3.5 | 1-2& 3-4&7- 5-6 | |
| 127 D | W 7025 | No | 7200:8 | 0.774 | 990 | .092 | 60-5000 | Fig.1 | 3.5 | 1-2 3-4&5- 6 | |
| 127 F | W 6904 | No | 1000:16 | 1.96 | 131 | .043 | 40-6000 | Fig.1 | 3.5 | 1-2& 3-4&7- 5-6 | |
| 127 G | W 20016 | E | 73000:600 | 10 | 1810 | 0.3 | 630-1230 | Fig.1 | 3.5 | 1-2& 3-4&7- 5-6 | |

* E - Electrostatic Shield M - Magnetic Shield

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L | | Frequency Range (Cycles) | Size, In. | Weight | Low Wdgs | High Wdgs |
|-------|-------------------|---------|-----------------|----------------------|----------------------|----------------|--------------------------------------|-----------------------------|-----------|-----------|----------------|-----------|
| | | | | Low Wdgs | High Wdgs | Low Wdgs | High Wdgs | | | | | |
| | | | | (Henrys) | (Henrys) | (Henrys) | (Henrys) | | | | | |
| 129 E | W 7159 D 88432 | E | 4000:500 | 24.7 | 215 | 5.4 | 20-10000 | Fig. 13 | 4.5 | 1-2& 3-4& | 5-6 7-8 | |
| 131 A | W 7135 | No | 6000:500 | 120 | 800 | 1.35 | 60-5000 | 2 7/8x 2 7/8x4 | 2.5 | 1-2& 3-4 | 5-6 | |
| 132 A | W 7456 | No | 25000:200 | 43 | 2600 | 1.13 | 60-5000 | Fig. 20 | 2.5 | 1-2& 3-4 | 5-6 | |
| 132 C | - | No | 23000:500 | 64.3 | 3150 | 4.5 | 30-10000 | Fig. 20 | 2.5 | 1-2& 3-4 | 5-6 | |
| 134 A | W 7674 | No | 6000:600 | 48 2.3(7-8) | 565 | 16 | 35-8500 | Fig. 16A | 7.5 | 1-2& 3-4 | 5-6, 7-8, 9-10 | |
| 135 B | W 9490 | No | 6000:600 | 4.5(7-8&2-8) | 280(5-6) | 55.0(1-2&3-4) | 55.0(.008 DC) (High Side) 35-8000 | 4x6 3/8x 6 7/32 | 14 | 7-3 7-8 | 9-10 | |
| 143 A | W 7389 D 88433 | No | 480500:500 | 4.8 | 510 | 17.4 (hi side) | 40-1000 | 4 1/8x2 5/8x4 5/8 | 4.5 | 1-2& 3-4& | 5-6 7-8 | |
| 144 A | W 8983 | No | 6800:8 | 420 | 160 | 8.5 (hi side) | 100-7000 | Fig. 3 | 2.5 | 1-2 3-5 | | |
| 144 C | W 9101 | No | 10000:500 | 87 | 1250 | 39 (hi side) | 200-3000 | Fig. 3 | 2.5 | 1-2& 3-4 | 5-6 | |
| 144 F | W 20776 | No | 16000:500 | 51.6 | 2600 | 2.0 | 100-5000 | Fig. 3 | 2.5 | 1-2 3-4 | | |
| 144 F | W 21073 | No | 6000:6000 | 57.0 | 117(1-2) 123(3-4) | 5.5(1-2) | 200-5000 | Fig. 3 | 2.5 | 5-6 3-4 | 1-2 3-4 | |
| 145 A | W 7824 | No | 2:14:1 (Turns) | 30 | 170 | 0.7 | 2 1/2x3x3 5/8 | | 2.0 | 1-2 3-4 | | |
| 149 A | W 7784 | No | 1:2.14 (Turns) | 68 | 354 | 5.0 | 100-5000 | 3 3/8x4 1/2x 3 1/2 | 6 | 1-2 3-4 | | |

* Electrostatic Shield

M - Magnetic Shield

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L | | Frequency Range (Cycles) | Size In. | Weight lbs | Low Wdgs | High Wdgs |
|-------|----------------------|---------|------------------------|----------------------|-----------------------|-----------------|----------------------------------|-----------------------------|----------|---------------|----------------|-----------|
| | | | | Low Wdgs | High Wdgs | Low Wdgs | High Wdgs | | | | | |
| | | | | (Henrys) | (Henrys) | (Henrys) | (Henrys) | | | | | |
| 150 A | W 9641 | No | 25000:200 | 45 | 2600 | 1.13 | 35-10000 | Fig. 5 | 2.5 | 1-2& 3-4 | 5-6 | |
| 151 A | | E | 6000:80 | 0.74 | 6.2 | .0025 (hi side) | 500000-1500000 | Fig. 2B | 1.2 | 1-2& 3-4 | 5-6 7-8 | |
| 151 B | W 21176 | E | 20000:600 | 12 | 240 | .10 (hi side) | 60000-108000 | Fig. 2B | 1.2 | 1-2& 3-4 | 5-6 | |
| 151 E | W 23153 | E | 80000:600 | - | 850 | | 16000-31000 | Fig. 2B | 1.2 | 1-2 3-4 | | |
| 151 F | W 24263 P-157350 | E | 20000:135+135 | 8 | 240 | | 60000-108000 | Fig. 2B | 1.2 | 1-2& 3-5 | 5-6 | |
| 151 G | W 26568 | E | 100000:300:300 | 1.3(1-2) 1.3(3-4) | 90 | .0728 (hi side) | Tuned at 16000 32000 or 64000 | Fig. 2B | 1.2 | 1-2& 3-4 | 5-6 | |
| 154 A | W 9615 | M | 16000:600 | 112 | 2330 | 4.6 | 35-8000 | Fig. 21A | 2.75 | 1-2& 3-4 | 5-6 7-8 | |
| 154 B | | No | 8000:500 | 67.4 | 1062 | 2.9 | 40-6000 | Fig. 21A | 2.75 | 1-4 5-6& | 7-8 | |
| 155 A | W 9756 | E | 16000:600 | 51.8 | 1370 | 96 (hi side) | 35-800 | Fig. 21A | 2.75 | 1-2& 3-4 | 5-6 | |
| 157 A | W 9873 | No | 10000:500 10000:250 | 72.0 | 1220 | 43 (hi side) | 35-10000 | Fig. 2B | 2.25 | 1-4 5-6& | 7-8 | |
| 157 B | W 20494 | E | 11700:600 12200:300 | 45.5 | 745 | 23.5 (hi side) | 230-5000 | Fig. 2B | 2.25 | 1-3& 4-6 | 7-9 | |
| 157 C | D 95167 exc. case | E | 20000:600 | 15 | 550 | .81 | 6000-9000 | Fig. 2B | 2.25 | 1-2& 3-4 | 5-6 7-8 | |
| 157 F | | E | 60000:600 | 30 | 2760 | 1.65 (.055 D.C) | 200-3200 | Fig. 2B | 2.25 | 1-2 3-4 | | |
| 157 G | W 22410 D 99153 | E | 21000:1200+300 | 43 | 1340 | 28.1 (hi side) | 200-3000 | Fig. 2B | 2.25 | 3-4& 7-8 | 2-5 | |
| 157 H | W 26613 | E | 60000:600 | 67 | 4500 | | 200-3600 | Fig. 2B | 2.25 | 1-2& 3-4 | 5-6 | |
| 158 B | | No | 20000:250 | 25.3 | 570(1-2) 1000(5-6) | 9.5 21.5 | 200-3000 | Fig. 4 | 1.0 | 3-4 5-6 | 1-2 (Rev.) | |
| 159 A | W 9431 | No | 9500:500 | 81 | 1132 | 80 (hi side) | 30-8000 | Fig. 21A | 2.75 | 1-2& 3-4 | 5-6 7-8 (Mon.) | |
| 159 B | W 21453 | No | 4130:12 | 0.68 | 221 | 17.2 (hi side) | 50-10000 | Fig. 21A | 2.25 | 1-2 3-4& 5-6 | | |
| 160 A | W 20027 | No | 3320:600 | 31.6 | 186.5 | 5.9 (hi side) | 100-5000 | Fig. 5 | 2.5 | 1-2 3-4& 5-6 | | |
| 160 B | W 20362 | No | 6800:2000 | 67.2 | 204.0(3-5) | 8.35 (hi side) | 100-7000 | Fig. 5 | 2.5 | 1-2 3-5 | | |

* E - Electrostatic Shield

M - Magnetic Shield

OUTPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdg High Wdg (Henry's) | Frequency Range (Cycles) | Size In. | Weight lbs | Low Wdg | High Wdg |
|-------|---------------------|---------|------------------------------|--|----------|---|-------------------------------------|----------|---------------|---|-----------------------------|
| | | | | Low Wdg | High Wdg | | | | | | |
| 160 C | W 22065 | No | 7000:1120 | 62.0(1-2) 230.0(3-4) | 915 | 23.0(hi side) | 35-10000 | Fig.5 | 2.5 | 1-2 | 5-6 |
| 161 A | W 9324 D 94628 | No | 25000:200 | 43 | 2800 | 1.13 | 30-10000 | Fig.21A | 2.75 | Mon. 3-4 1-228 3-4 | 5-6 |
| 162 B | D 90426 | No | 7200:600 | 18.7(7-8) 65.0(2-3) | 604 | 4.5 | 200-4500 | Fig.2B | 2.25 | 7-8 Mon. 1-2 2 3-4 | 5-6 |
| 163 A | W 22019 | E | 20000:600 | 2.2 | 250 | .045 | 5000-30000 | Fig.2B | 2.25 | 2-3&5-5 | 4-388-7 |
| 163 C | P 99162 | No | 21000:600 | 5.1(1-2) | 320 | 11.6(hi side) | 4000-10000 | Fig.2B | 2.25 | 1-2 Mon. | 5-6 |
| 163 D | W 21179 D 97774 | No | 100000:250 | 13.3(3-4) | 6770 | .63 | 200-3000 | Fig.2B | 2.25 | 3-4 | 5-6 |
| 166 A | W 20630 | No | 4200:12 or 36 | .57 | 142 | 6.3(hi side) | 50-10000 | Fig.21A | 3.75 | 1-1T-2 | 3-4&5-6 |
| 166 B | W 21061 | No | 4130:500 4130:8 | 31.3 | 200 | 6.3(hi side) | 50-10000 | Fig.21A | 3.75 | 1-1T-2 | 3-4&5-6 |
| 166 C | W 23618 D 157249 | No | 8000:100 | 10.5 | 750 | 50(hi side) | 60 cycles | Fig.21A | 3.75 | 1-2-3 | 4-5 |
| 166 D | W 26513 | No | 6580:300 | 39 | 470 | 45 | 85 cycles | Fig.21A | 3 | 1-2 | 3-4&5-6 |
| 167 A | W 20646 | No | 10700:300 | 1.15 | - | - | 2990-3010 | Fig.2B | 2.25 | 1-2 | 3-4 |
| 168 A | W 21243 W 21421 | F | 1:34 | 13 | 525 | .0136 | 10600 1 13/32x1 5/32x3 3/8 | | .5 | red-red white | blue- blue white |
| 169 A | W 20601 | No | 12000:1000 | 195 | 1780 | 50.0(hi side) | 60-10000 1 1/4x2 19/32 x 2 19/32 | Fig.7 | .5 | 1-2-3 | 4-5 |
| 170 B | W 22680 | M | 25000:430 25000:330 | 1.6(1-2) 16.5(1-3) | 1530 | 300(hi side) | 35-10000 | Fig.7 | 1.0 | 1-2-3 | 4-5 |
| 171 B | W 22998 | No | 10000:8 10000:500 | 59.0 | 750 | 27.0(hi side) | 50-6000 2 5/8x3 5/8x 3 7/8 | | 3.75 | 1-2-3 | 4-5-6 |
| 171 C | W 26073 | No | 10000:30 1000:600 | 4.2 (6-7)(8-9)(10-11) (12-13) 47.5(5-7) (8-9)(10-11)(12-14) | 475(1-3) | 23.0(hi side) | 30-10000 2 5/8x3 5/8 x 3 7/8 | | 3.75 | 5-6-7 1-2-3 8-9 10-11 12-13-14 | |
| 171 D | W 34681 | No | 1500:500 1500:4 1500:2 | 54 -.75 .32 | 168 | 9.0(hi side) | 50-10000 2 5/8x3 5/8x 3 7/8 | | 3.75 | 4-5-6-7 2-3 1-2 | 10-12 8-9 is feedback |
| 173 A | W 21640 | No | 7500:12 7500:350 | 12.3 | 341 | 20.0(hi side) | 50-7000 | Fig.18A | 8 | 1-T-2 | 3-4&5-6 |

* E - Electrostatic Shield M - Magnetic Shield

OUTPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdg High Wdg (Henry's) | Frequency Range (Cycles) | Size In. | Weight lbs | Low Wdg | High Wdg |
|-------|---------------------|---------|------------------------------------|----------------------|---------------|---|--|----------|---------------|---------------------------------|----------|
| | | | | Low Wdg | High Wdg | | | | | | |
| 175 B | W 22867 | No | 4500:2000 | 60(av) | 164(av) | 40 | 100-7000 | Fig.18A | 8 | 1-2 | 3-4-5 |
| 175 C | Mod. N W 23903 | No | 9000:500 | 66.6 | 840 | 40(hi side) | 40-10000 | Fig.18A | 8 | 1-2-3 | 5-6&7-8 |
| 175 D | | | 3750:30 (5-6,7-8,9-10,11-12) | 1.05 | | | | | | | |
| | | | 3750:500 (5A-6,7-8,9-10,11-12A) | 18.7 | 108 | 10.6(hi side) | 50-10000 | Fig.18A | 8 | 5A-5-6 7-8,9-10 11-12-12A | 1-2&3-4 |
| 175 E | W 26168 | No | 8500:4200 | 225 | 310 | 7.0 | 100-4500 | Fig.18A | 8 | 1-2 | 3-4-5 |
| 176 A | W 21706 | No | 12000:7.34 | .24 | 1170 | 35.3(hi side) | 100-5000 | Fig.7 | 1 | 1-2 | 3-4-5 |
| 176 B | W 21837 | No | 4500:37.5 | 3.9 | 59 | 2.2(hi side) | 100-6000 | Fig.7 | 1 | 1-2 | 3-4 |
| 176 C | W 21958 | No | 6000:600 | 23(av) | 318(av) | 40 | 200-3000 | Fig.7 | 1 | 1-2 | 3-4 |
| 176 D | W 22527 | No | 20000:250 25000:30 | 26 | 2250 | 40(hi side) | 50-8000 | Fig.7 | 1 | 1-4 2-3 | 5-6 |
| 175 A | W 21932 | E & M | 320000:200 | 21 | 5600 | 2.54 | 50-10000 | Fig.5 | 2.5 | 1-2&3-4 | 5-6&7-8 |
| 176 A | W 21428 | E | 3500:140 | 3.8 | 148 | | 12000-60000 1 11/16x 7 5/32 x 4 3/8 | | 2.8 | 1-2&3-4 | 5-6 |
| 176 B | W 24451 D 157371 | E | 3500:140 | 3.8 | 156 | | 12000-60000 1 11/16x5 5/32 x 4 3/8 | | 2.8 | 1-2&3-4 | 5-6 |
| 177 A | W 22215 | E | 3500:135+10 | 12.5 | 21.0 | .3(hi side) | 12000-60000 1 11/16x 3/32 x 4 3/8 | | 2.1 | 1-1T-2 | 5-6 |
| 177 B | W 23140 | F | 4000:102+600 | 3.7(ea wdg) | 50 | .02(1-2)or (3-4) | 5000-30000 1 11/16x9 3/32 x 4 3/8 | | 2.1 | 1-A-2 | 5-6 |
| 178 A | V 22346 | E | 70000:50 70000:500 | 9 (av) 27(av) | 2760(av) | 25 | 50-7000 | Fig.7 | 1 | 1-2&3-4 | 5-6&7-8 |
| 178 B | W 22217 | No | 10000:1110 | 165(av) | 890(av) | 25(hi side) | 35-10000 | Fig.7 | 1 | 1-2&3-4 | 5-6 |
| 178 D | W 22543 D 156880 | E | 4500:600 | 41 | 214 | 7.2 | 35-15000 | Fig.7 | 1 | 1-2 | 3-4 |
| 179 B | | E | 16000:600or135 | 4(2-5) | 200(4-3)(8-2) | | 1000-150000 | Fig.5 | 2.5 | 2-5or1-6 | 4-3&8-7 |

except height including terminal is 4".

* E - Electrostatic Shield M - Magnetic Shield

OUTPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henrys) | Frequency Range (Cycles) | Size In. | Weight lbs | Low Wdgs | High Wdgs |
|-------|---------------|---------|-----------------|---------------------------------------|-----------|--------------------------------|-----------------------------|-----------------------------|---------------|------------------|--------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 150A | W 22426 | No | | .7(1-2) | 20 | .00985 (hi side) | 28000 | Fig. 21A | | 1-2, 3-4 | 5-6 |
| 151A | W 22218 | E | 150+20:750 | .7(3-4) 1.0(1-2) 1.0(3-4) | 4.5 | .030 (hi side) | 35000-150000 | Fig. 2B | 2.25 | 1-1T-2 3-3T-4 | 5-6 |
| 151 B | W 22216 | E | 20000:125 | 1.15 | 155 | | 36000-150000 | Fig. 2B | 2.25 | 1-2 | 3-4 |
| 151 C | W 23152 | E | 80000:600 | 17 | 1600 | | 4800-16000 | Fig. 2B | 2.25 | 1-2 | 3-4 |
| 151 D | W 23000 | E | 6000:135 | .85 | 58 | | 30000 & 40000 | Fig. 2B | 2.25 | 1-2, 3-4, 7-8 | 5-6 |
| 151 F | W 29164 | E | 15000:60 | 1.0 | 100 | | 8000-150000 | Fig. 2B | 2.25 | 1-2, 3-4 | 5-6 |
| 153 F | W 21793 | No | 3600:12 | 0.90 | 415 | 81.0 (Hi Side) | 50-10000 | 6 11/16x 6x5 | 15 | 5-6, 7-8 | 1-2, 3-4 |
| 154 A | W 22791 | No | 1:1 | 99 | 500 | 15.0 | 20 | 15/32 | 15 | 9-10, 11-12 | |
| 155 A | W 22914 | No | 2.58:1 (Turns) | 38(1-2) (av) 350(3-4) [#] | 760(5-6) | | 30-10000 | Fig. 5 | 2.5 | 1-2, 3-4 | 5-6 |
| 155 A | W 22932 | E | 60000:600 | 33.5 (av) | 4950 (av) | | 250-2800 | Fig. 11 | 2.2 | 1-2 | 3-4 |
| 155 B | W 23662 | No | 30000:175 | 107 | 4850 | 1.2 | Voice | Fig. 11 | 2.2 | 1-2 | 3-4, 5-6 |
| 155 C | W 23664 | No | 12000:1000 | 145 | 1830 | 18.0 (hi side) | Voice | Fig. 11 | 2.2 | 1-2, 3-4, 7-8 | 5-6 |
| 156 F | " | No | 4000:0.22 | .11 | 245 | 4.4 (hi side) | 255-3145 | Fig. 11 | 2.2 | 1-6 | 7-8 |
| 157 A | W 23232 | No | 5000:300 | 196 (Feedback) (9-11) 34(1-5) | 260 | 47 (hi side) | 30-8000 | 3 7/16x 4 7/8 x 4 3 8 | 8. | 1-5 | 6-8 |
| 158 A | W 24014 | E | 200000:15000 | 29 | 360 | | 61000 | 1 27/32x 1 3/32x 2 13/32 | .25 | 1-2 | 3-4 |
| 159A | W 21572 | E | 3500:6.3 | .05 | 20 | | 120000 | Fig. 2B | 1.5 | 1-2 | 3-4 |
| 159 B | W 26693 | E | 100000:300+300 | 1.8(1-3, 4-6) 5.0(9-10) | 100 | .335 (hi side) | either 4000 or 8000 | Fig. 2B | 1.5 | 1-2, 3-4 | 7-8 |
| 190 A | W 22621 | E | 7000:300 | .62 | 60 | .00381 | 4000 | 5 3/16x 4 3/8x 5 3/16 | 12 | 1-2 | 3-4, 5-6 |
| 191 A | W 23949 | No | 7600:7100 | 60(3-4) 129(1-2) | 160 | 3.0 (hi side) | 300-5000 | 4 3/8x 2 3/8x 4 13/16 | 13/16 | 3-4 | 5-7 |

* E - Electrostatic Shield M - Magnetic Shield

OUTPUT TRANSFORMERS

| Code | Reference No. | Shield | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henrys) | Frequency Range (Cycles) | Size-In. | Weight lbs | Low Wdgs | High Wdgs |
|-------|---------------------|--------|---|--------------------------------------|---------------------------------|---|---|----------------------------|---------------|-------------|-------------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 193 A | W 25073 | E | 200:16(3-4) : (1-5) 200:100(3-4) : (1-2) 3.5(3-4) 60000:200(5-6) : (3-4) | 1.0(1-2) | 175 | | Tuned single freq. 5800-111000 | Fig. 2A | 1.2 | 1-2 | 3-4 |
| 194 A | W 24637 | No | 2:1(1-T) : (T-2) 4:1(3-4) : (1, T-2) | 6.0(1-T) 4.0(T-2) | 27.0(3-4) | 508 Micro-hen(1, T) 223 Micro-hen(T-2) | Tuned single freq. 40000-143000 | Fig. 2A | 1.2 | 1-T-2 | 3-4 |
| 194 B | W 26634 | E | 400915(4-5) : (1-2) 4000:62.5(4-5) : (3-4) | .1(1-2) | 13.0 | .89 Micro-hen | Tuned single freq. 620000-2,356,000 | Fig. 2A | 1.2 | 3-4 | 4-5 |
| 195 A | W 24175 | F | 6000:10 | .012 | 12.5 | 610 Micro-hen(3-4) | Tuned single freq. 506000-563000 | Fig. 2A | 1.2 | 1-2 | 3-4 |
| 197 A | W 24033 | M | 24000:600 | | 370 | 72 (hi side) | 30-15000 | Fig. 3 | 2.5 | 1-2 | (3-4) (5-6) |
| 198 A | W 26065 | No | 100000:250000 at 1.2 KC(3-4) : (1-2) 1000000:250000 at 2.8 KC(5-6) : (1-2) 1000000:250000 at 5.6 KC(7-8) : (1-2) | 90 230(5-6) 66(7-8) | 250(3-4) 230(5-6) 66(7-8) | | 12000 26000 56000 | 3 7/16x 1 9/32x 4 11/32 | | 1-2 | 3-4 5-6 7-8 |
| 199 A | W 24855 D 157602 | No | 150000:50000 | 632 | 1800 | 25 | 255-3145 | Fig. 2A | | 1-2 | 3-4 |
| 500 A | W 26917 | No | 21000:600 21000:296 21000:45 | 19.6(1-2) 101.(9-10) 15.4(3-4) | 935 | 20 (hi side) | | Fig. 28 | 1.25 | 1-2 | 7-8 9-10 |
| 500 B | W 26637 | No | 125000:220 | 2.7 | 1750 | .21 | 2 or more single freq. between 700-1700 cps | Fig. 28 | 1.25 | 1-2 | 3-4 5-6 7-8 |
| 500 C | W 27948 | No | 10.5:1(3-4) : (1-2) (5-6) : (1-2) | 2.3 | 585 585 | 5.1 wdg (3-4) | 270 cycles | Fig. 28 | 1.25 | 1-2 | 3-4 5-6 |
| 500 D | W 33993 | No | 140:1.6 | .25 | 18.5 | .63 (hi side) | 600-1800 | Fig. 28 | 1.25 | 1-2 | 3-4 |
| 502 A | W 25661 | No | 25000:600 | 46 | 1950 | 30 (no de) | 300-3000 | Fig. 26 | 10 oz | 1-2 | 3-4 |
| 503 A | W 26672 | E & M | 3:1(7-8) : (1-2) (7-8) : (3-4) | 270 270 | 445 | | 200-3600 | Fig. 28 | 1.25 | 1-2 | 7-8 3-4 |

* E - Electrostatic Shield M - Magnetic Shield

OUTPUT TRANSFORMERS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdg (Henrys) | Frequency Range (Cycles) | Size-In. | Weight lbs | Low Wdg | High Wdg |
|-------|--------------------------|---------|---|---|--------------------------------|----------------------------|-----------------------------|-----------------------------|---------------|------------------|---------------------------------|
| | | | | Low Wdg | High Wdg | | | | | | |
| 504 A | W 27642 | No | 70000:500 | 38.4 | 1190 1720 | 100 (hi side) | 50-7000 | 2B | 2.25 | 1-2 3-4 | 5-6 7-8 |
| 505 A | W 28730 D 161240 | E | 60000:600 | 54 | 2600 | 1.1 | 200-3000 | 2 9/16x2 17/32x3 7/16 | 3.25 | 1-2 | 3-4 |
| 503 A | W 29133 | No | 7000:10 | .1 | 3.5 | | 46000-605000 | Fig. 77 | .75 | 1-2 | 3-4 |
| 509 A | | No | 3470:600 | 67 (1-2) | 130 (7-8) | | 250-3000 | 2B | 2.25 | 1-2 | 7-8 |
| | | | 3470:100 | 22 (3-4) | 177 (9-10) | | | | | | 1-5 |
| 510 A | W 31188 | No | 720000:72 | .125 | 7 | 62 Microhen | 2064000 | 5/8 diam x 2 3/8 high 1 | 1 oz | 3-4 | 1-2 |
| 511 A | W 26219 Mod. D 165664 | F | 10000:72 | .25 | .75 | | 2934000 | 21A | .75 | 1-2-3 | 4-5-6 |
| 512 A | | No | 45000:60 | 8.2 | 1540 | 7 (hi side) | 300-8000 | 9/16x 15/16x23/32 | 1/2oz | Red- 1-2 | Blue- 3-4-5 |
| 513 A | W 32505 | E | 4000:100 | .4 | 5 | | 50000-3500000 | 21A | .75 | 1-2 | 3-4-5 |
| | | | | | (4-5) with 3 connected to 5 | | | | | | |
| 514 A | W 33553 | E | 3000:72 | .1 | 11 | 600 microhen | 50000-3500000 | 1 11/16x2 17/32x2 19/32 | .5 | 1-2 | 3-4-5 |
| 515 A | W 34261 Mod | No | 40000:60 | 6 | 2500 | 20 (hi side) | 300-8000 | 9/16x11/16x1 15/32 | 1 oz | 1-2 | 3-4 |
| 516 A | V 34163 | No | 15000:250 | 37 | 1590 | 10 (hi side) | 250-3000 | Fig. 6A | .6 | 1-2 | 3-4 |
| 517 A | W 34613 | M | 20000:600 | 75 | 2700 (3-4) | 20 (3-4) | 200-3500 | 1 3/16x1 11/16 x 3 3/4 | .75 | 1-2 | 3-4-5 |
| 517 A | W 34614 | M | 90000:10000 | 600 | 1400 | 11 (hi side) | 300-3000 | 1 3/16x1 11/16 x 3 3/4 | .75 | 1-2 | 3-4 |
| 513 A | W 34664 | No | 200:1 (7-8): (1-5) turns 1:1 (7-8): (9-10) | .155 | 910 (7-8) 1150 (9-10) | 25 (7-8) | 1600 or 2000 | 1 11/16x1 11/16 x 3 9/16 | 18 oz | 1-5 | 7-8 9-10 |
| 520 A | W 34839 | No | 2000:66.7+2+4 | 1.46 (9-10) .068 (1-2) (3-4) in Par. .183 (5-6) | 26.2 (11-3) | 11 (hi side) | 50-15000 | 4 7/32x4 3/32x 6 1/2 | 14 | 9-10 1-2, 3-4 | 11-13 7-8 is 5-6 feedback |

* E - Electrostatic Shield M - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdg (Henrys) | Frequency Range (Cycles) | Size-In. | Weight lbs | Low Wdg | High Wdg |
|------|-------------------|---------|-----------------|--------------------------|---------------------------|----------------------------|-----------------------------|------------|---------------|---------|-------------------|
| | | | | Low Wdg | High Wdg | | | | | | |
| 50 A | - | No | 1:1 | Min. 26.35 Max. 35.65 | 31.45 42.55 | 3.0 | Voice 20x9 | 1/2x11-1/2 | 75 | 1-2 | 3-4 |
| 52 C | - | No | 2000:30000 | 15.0 | 230.0 | Min. 1.2 Max. 1.7 | Voice | Fig. 13 | 4.5 | 3-4 | 1-2 5-6 |
| 67 C | D 77142 | No | 1:1 | Min. 35 Max. 47 | 35 47 | 2.4 | Voice | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 69 G | D 16634 | E | 300:600 | Min. 6.9 Max. 8.0 | 16.8 20.5 | .6 | 3600-50000 | Fig. 13 | 4.5 | 1-2 | 3-4 |
| 74 A | 1/2 62-A | No | 1:1 | 50 | 52 | 2.6 | Voice | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 74 B | D 77494 | F | 600:1540 | 52.5 | 126 | 2.0 | Voice | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 74 C | D 75135 | E | 600:600 | 1.7 (1-2) | 1.75 (3-4) | .12 | 3000-33000 | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 74 D | W 3533 D 75474 | E | 600:600 | 35 | 35 | .64 | Voice | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 81 A | - | E | 1:1 | 78 39 (ea) | 78 39 (ea) | 2.4 | Voice | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 83 B | 1/2 62-A | No | 1:1 | 50 | 52 | 1.04 | Voice | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 84 B | W 23681 | No | 1:1 | 13.1 | 18.5 | .280 | 135 | Fig. 13 | 4.5 | 1-2 | 3-4 5-6 7-8 |
| 91 A | W 5613 | No | 1:1 | Min. 35 Max. 47 | 35 Min 47 Max | 2.4 | Voice | Fig. 19 | 9 | 1-2 | 3-4 5-6 7-8 |
| 92 E | - | No | 1:1 | Min. 36 Max. 50 | 36 Min. 50 Max. | .55 Min .9 Max | Voice | Fig. 11 | 1.8 | 1-2 | 3-4 5-6 7-8 |
| 94 F | - | No | 1:1.5 | Min. 36 Max. 48 | 55 Min. 73 Max. | .55 Min. .9 Max. | Voice | Fig. 11 | 1.8 | 3-4 | 1-2 5-6 |
| 94 G | W 7127 | No | 43.5:1 | 10.5 | 485 | .115 | Voice | Fig. 11 | 2.2 | 1-2 | 3-4 |
| 94 H | W 8264 | E | 600:600 | 24. | 33. | .64 | Voice | Fig. 11 | 2.2 | 1-2 | 3-4 5-6 7-8 |
| 94 J | W 8383 | No | - | 1.6 | 15.7 (3-5) 357.8 (5-7) | .03 | Voice | Fig. 11 | 2.2 | 1-2 | 3-7 |

* E - Electrostatic Shield M - Magnetic Shield

REPEATING COILS

| C-As | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henry's) | Frequency Range (cycles) | Size-In. | Weight lbs. | Low | High |
|-------|---------------------|---------|--------------------|---------------------------------------|-----------------------|---------------------------------|-----------------------------|----------------------------|----------------|-----------|------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 94 K | W 9975 | No | 1:2 | 2.5 | 3.5 | .021 | 180-1000 | Fig.11 | 1.8 | 1-2 | 3-4 |
| 94 L | W 21432 | No | 700 | 700 | 50 (.015 amp) (20) | | | Fig.11 | 2.2 | 1-2 | 3-4 |
| 94 M | W 22632 | No | | 340 | 400 | | | Fig.11 | 2.2 | 1-2-3-4 | 5-6 |
| 94 N | W 22638 | No | 1:1 | 12.6 | 17.0 | .28 | Voice | Fig.11 | 2.2 | 1-2 | 3-4 |
| 94 P | W 23717 D-157130 | No | 10:25 (1-2): (7-8) | .55 | 2.76 | .040 (hi side) | 425-1615 | Fig.11 | 2.2 | 1-2 | 7-8 |
| 94 R | W 26058 | No | | 1.65 | 55 | .600 (hi side) | 1000 | Fig.11 | 2.2 | 3-4-5-6-7 | 1- |
| 94 S | W 26472 | No | 30:27000 | 4.35 | 3230 | .25 | 1000 | Fig.11 | 2.2 | 3-4 | 1-2 |
| 94 T | W 27055 | No | 1:1.5 | 14.5 | 31.5 | .34 (hi side) | Voice | Fig.11 | 2.2 | 3-4 | 1-2 |
| 94 U | W 26819 | No | 5:600 | .13 (1-2) | 17.8 | 0.4 (hi side) | 270 | Fig.11 | 2.2 | 1-2 | 6-6 |
| 94 V | W 23716 D 159129 | No | 1800:1 | .15 | 110 | 2.5 (hi side) | 425-1615 | Fig.11 | 2.2 | 1-2 | 3-4 |
| 94 Y | W 29019 D 161338 | E | 600:600 | 32 | 38 | 1.0 | 200-3000 | Fig.11 | 2.2 | 1-2 | 3-4 |
| 96 B | W 5722 D 79533 | No | 1:160000 | .23 | 315.0 | 1.6 (3-4) | 16-425 | Fig.1 | 3.5 | 1-2 | 3-4 |
| 100 A | 1/2 62-A | No | 1:1 | 38 Min. 60 Max. | 40 Min. 52 Max. | 1.04 | Voice | 2 1/16x3 13/16x 3 15/16 | 4 | 1-2 | 3-4 |
| 100 B | 1/2 62-C | No | 1:1.62 | 36.25 Min. (1R-1) 41.75 Max (6R-6) | 35 Min. 48 Max. | 0.64 | Voice | 2 1/16x3 13/16x 3 15/16 | 4 | 1-2 | 3-4 |
| 102 A | 1/2 75-A | No | 1:1 | 50 | 52 | 2.6 | Voice | 2 1/16x3 13/16x 3 15/16 | 3.06 | 1-2 | 3-4 |
| 102 B | 1/2 75-C | No | 1:1.62 | 29 | 51 | 1.6 | Voice | 2 1/16x3 13/16x 3 15/16 | | 1-2 | 3-4 |
| 104 A | - | No | 0.1:1 | 5.5 | 12.5 | .085 | 60 | Fig.13 | 4.0 | 1-2 | 3-4 |
| 105 A | - | No | 200:50 | 11.5 | 27.6 | .5 | 60-5000 | Fig.1 | 3.5 | 1-2 | 3-4 |

* E - Electrostatic Shield

M - Magnetic Shield

REPEATING COILS

| C-As | Reference No. | Shield * | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henry's) | Frequency Range (cycles) | Size-In. | Weight lbs. | Low | High |
|-------|-------------------|----------|-----------------|----------------------|-----------|---------------------------------|-----------------------------|--------------------------------|----------------|-----|------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 107 A | W 7121 D-87301 | E | 600:600 | 13.4 | 15. | .68 | 5000-30000 | Fig.13 | 4.5 | 1-2 | 3-4 |
| 107 B | D 90376 | E | 640:640 | 13.4 | 15. | .68 | 4000-10000 | Fig.13 | 4.5 | 1-2 | 3-4 |
| 109 A | W 7066 | No | 30:27000 | 4.1 | 3800 | .1 | 1000 | Fig.1 | 3.5 | 3-4 | 1-2 |
| 109 B | | E | 600:46 | 1.0 | 13.2 | .0023 | 1000 | Fig.1 | 3.5 | 1-2 | 3-4 |
| 111 A | W 7577 | E | 600:40 | 2.2 | 29.3 | 1.28 | 35-3500 | Fig.13 | 4.5 | 1-2 | 3-4 |
| 111 B | W 7655 | E | 12.25:1 (Turns) | 2.4 | 128.0 | .9 | 100-5000 | Fig.13 | 4.5 | 3-4 | 1-2 |
| 111 C | W 7166 D-87653 | E | 600:600 | 40.0 | 40.0 | 27.0 | 35-2000 | Fig.13 | 4.5 | 1-2 | 3-4 |
| 111 D | W 8491 D-82301 | No | 1200:600 | 6 | 12 | 3.0 | 35-10000 | Fig.13 | 4.5 | 3-4 | 1-2 |
| 113 A | W 7654 D-89539 | No | 1:10 | .060 | .9 | .9mh Min. | 350-450 | Fig.13 | 4.5 | 1-2 | 3-4 |
| 114 A | W 7544 D 83553 | No | 1:1.77 | .024 | .023 | .0007 | 300-700 | 10 1/2x6 1/4x6 1/2 (approx) | 37 | 1-2 | 3-4 |
| 115 A | W 7734 D89535 | No | 2:1 | .012 | .023 | .0016 (60) | 300-700 | Fig.16C | 6.75 | 1-2 | 3-4 |
| 115 B | W 7527 D 89536 | No | 1:9 | .012 | .161 | .0016 (60) | 300-700 | Fig.16C | 6.75 | 1-2 | 3-4 |
| 115 C | D 89537 | No | 1:10 | .012 | 1.54 | .0016 (60) | 300-700 | Fig.16C | 6.75 | 1-2 | 3-4 |
| 115 D | D 89534 | No | 1:16 | .006 | .014 | .0016 (60) | 300-700 | Fig.16C | 6.75 | 3-4 | 1-2 |

* E - Electrostatic Shield

M - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdgs (Henrys) | Frequency Range (Cycles) | Size-In. | Weight lbs. | Low Freq | High Freq |
|-------|-------------------|---------|-----------------|----------------------|-----------|---------------------------------|-----------------------------|----------|----------------|------------|------------------------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 118 A | W 7164 D-87744 | No | 200:200 | 14.5 | 14.5 | 1.5 | 50-7000 | Fig.20 | 2.5 | 1-2 5-6 | 3-4 7-8 |
| 118 B | W 8579 | | 500:317000 | 146 | 1500 | .4 | 35-10000 | Fig.20 | 2.5 | 1-2 | 3-4 |
| 119 A | | E | 600:40 | 2.2 | 29.2 | 19.2 (hi side) | 35-8500 | Fig.12 | 4. | 1-2 5-6 | 3-4 7-8 |
| 119 B | W 8077 D 91913 | No | 600:37 | 2.3 | 40 | 27.0 (hi side) | 35-8000 | Fig.12 | 4. | 1-2 5-6 | 3-4 7-8 |
| 119 C | W 8008 D-91915 | E | 1:1.15 | 50 | 55 | 27 | 35-8000 | Fig.12 | 4. | 1-2 7-8 | 3-4 5-6 |
| 119 D | W 21653 | No | 600:218 | 9.8 | 22.8 | 27 (hi side) | 35-8000 | Fig.12 | 4. | 1-2 5-6 | 3-4 7-8 |
| 119 E | W 20165 | F | 600:600 | 40 | 40 | 27 | 35-8000 | Fig.12 | 4. | 3-4 7-8 | 1-2 5-6 |
| 120 C | W 8485 | No | 1:1 | 12.7 | 17.8 | .55 | Voice | Fig.11 | 2.2 | 3-4 7-8 | 1-2 5-6 |
| 120 D | W 9576 | No | 1.5:1 | 12.7 | 29.2 | .55 | Voice | Fig.11 | 2.2 | 3-4 7-8 | 1-2 5-6 |
| 120 E | W 20046 | No | 1:1.5 | 11.5 | 12.7 | .55 (hi side) | Voice | Fig.11 | 2.2 | 1-2 5-6 | 3-4 7-8 |
| 120 F | W 20394 | No | 1:2.5 | 5.70 | 19 | .32 | Voice | Fig.11 | 2.2 | 1-2 5-6 | 3-4 7-8 |
| 120 G | W 21615 | No | 1:2.5 1:1.5 | 5.7 | 19 | .32 | Voice | Fig.11 | 2.2 | 1-2 5-6 | 4H-5 8-7H 4I-3 8-7L |
| 120 H | | No | 1:1 | 12.7 | 17.8 | .55 | Voice | Fig.11 | 2.2 | 3-4 7-8 | 1-2 5-6 |
| 120 J | | No | 1:1.5 | 12.7 | 29.2 | .55 | Voice | Fig.11 | 2.2 | 3-4 7-8 | 1-2 5-6 |
| 120 K | | No | 1:1.5 | 11.5 | 12.7 | .55 (hi side) | Voice | Fig.11 | 2.2 | 1-2 5-6 | 3-4 7-8 |
| 120 L | | No | 1:2.5 | 5.7 | 19.0 | .32 | Voice | Fig.11 | 2.2 | 1-2 5-6 | 3-4 7-8 |

* E - Electrostatic Shield

M - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdgs (Henrys) | Frequency Range (Cycles) | Size-In. | Weight lbs. | Low Freq | High Freq |
|-------|--------------------|---------|---|--------------------------|-----------|---------------------------------|-----------------------------|----------------------|----------------|--------------------|-------------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 120 N | W 24210 | No | 1:1.33 1-2 or 3-4:5-6 | 19.7 | 580 | .35 (5-6) | Voice | Fig.11 | 2.2 | 1-2 3-4 | 5-6 |
| 120 H | W 24074 | No | 1:2 (7-8) (9-10) (1-2) (3-4) (5-6) | 13.1 | 13.9 | .34 | Voice | Fig.11 | 2.2 | 7-8 | 1-2 3-4 5-6 |
| 120 P | W 24073 | No | 3:1 (1-2) (3-4) (5-6) (7-9) (10-12) 5:1 (1-2) (3-4) (5-6): (8-2) (10-11) | 15.9 | 26.7 | .4 | Voice | Fig.11 | 2.2 | 7-12 | 1-2 3-4 5-6 |
| 121 A | | | | 76. (Both wdgs. S.O.) | | 3. | Voice | 11 3/4x13 1/4x14 3/4 | 92 | Blk-Rd-Wh | EE |
| 123 A | W 9011 | E | 600:600 | 13.4 | 15. | .68 | 5000-30000 | Fig.12 | 4. | 1-2 5-6 | 3-4 7-8 |
| 124 B | W 21190 D 97583 | No | 200:600 | 19.4 | 56 | .46 hi side | Voice | Fig.2B | 2 | 3-4 7-8 | 1-2 5-6 |
| 124 C | W 24443 | F | 600:135-135 | 4.1 | 8.1 | | 60000-108000 | Fig.2B | 2 | 3-3 1/4 6-6 1/2 | 1-2 5-6 |
| 124 D | | E | 600:135+135 | 4.1 | 8.1 | | 60000-108000 | Fig.2B | 2 | 3-3 1/4 5-5 1/2 | 1-2 5-6 |
| 124 F | W 28302 | E | 700:135+135 | 4.1 | 8.7 | .023 hi side | 60000-108000 | Fig.2B | 2 | 3-3 1/4 5-5 1/2 | 1-2 5-6 |
| 129 A | W 9482 | E | 15:600 | .74 | 21 | .82 hi side | 1000 | Fig.2B | 2 | 1-2 5-6 | 3-4 7-8 |
| 132 A | W 8947 D 93569 | No | 200:350 | 5.29 | 11.1 | .254 (both wdgs S.A.) | 250-7000 | Fig.6 | 0.25 | 1-2 | 3-4 |
| 134 A | W 9668 | No | 300:0.75 | 7.8 | 4900 | 0.35 | 200-3000 | Fig.21A | 3 | 2-1 6-5 | 4-3 8-7 |

* E - Electrostatic Shield

M - Magnetic Shield

Sheet 25

REPEATING COILS

| Code | Reference No. | Shield ² | Impedance Ratio | Max. D.C. Resistance | | Min. L. (Henry) | Frequency Range (Cycles) | Size-In. | Weight lbs. | Low Freq. | High Freq. |
|-------|-------------------|---------------------|--|----------------------|------------|--------------------|-----------------------------|----------------------------|----------------|--------------|----------------|
| | | | | Low Freq. | High Freq. | | | | | | |
| 135 B | | E ² | 25.2:1 (turns) | 127 | 1300 | | | | | | |
| 137 A | W 9045 D 93937 | E | 100:1000 | 0.5 | 5 | .002 hi side | 35-10000 550000-1500000 | Fig. 21A 3 7/16x | 2.75 1.12 | 1-2 | 3-4 |
| 139 A | | E | 50:800 | 6.3 | 100 | 1.35 hi side | 200-3000 | 1 11/16x 3 2/16x | | 5-6 | 7-8 |
| 140 A | W 9540 | E ² M | 600:5500 | 80. | 570 | 36.1 hi side | 60-10000 | 1 1/4x2 19/32 x 2 19/32 | 2.5 .5 | 1-2 | 3-4 |
| 140 B | W 9755 | E ² M | 600:600 | 50 | 59 | 3.0 | 60-10000 | 1 1/4x2 19/32x 2 19/32 | .5 | 1-2 | 3-4 |
| 140 C | W 25614 | E ² M | 600:6 | 0.52 | 54. | 3 hi side | 60-10000 | 1 1/4x2 19/32x2 19/32 | .5 | 1-2 | 3-4 |
| 141 A | | M | Phonograph Coupling Coil - Special Characteristics | | | | | Fig. 21A | 3 | | |
| 144 A | | E ² | 1400:25 | .42 | 8.8 | .027 hi side | 64000-106000 | 3 13/32x1 19/32x1 1/8 | .5 | 1-2-3 | 4-5 |
| 146 A | W 22230 | E | 125:600 | 1.9 | 8.8 | 1.8 hi side | 200-150000 | Fig. 2B | 2 | 1-2 | 3-4 |
| 146 B | W 22100 | E | 20:67.5 | 0.20 | 0.60 | .002 hi side | 4000-300000 | Fig. 2B | 3 | 1-2 | 3-4 |
| 146 C | W 22201 | E | 125:125 | 0.6 | 0.7 | | 35000-500000 | Fig. 2B | 2 | 3-4 | 1-2 7-8 5-6 |

* E - Electrostatic Shield M - Magnetic Shield

Sheet 26

REPEATING COILS

| Code | Reference No. | Shield ² | Impedance Ratio | Max. D.C. Resistance | | Min. L. (Henry) | Frequency Range (Cycles) | Size-In. | Weight lbs. | Low Freq. | High Freq. |
|-------|---------------------|---------------------|-----------------|----------------------|--------------|-------------------------------------|-----------------------------|----------|----------------|--------------|------------------|
| | | | | Low Freq. | High Freq. | | | | | | |
| 146 D | W 22434 | E | 125:125 | .6 | .6 | | 35000-150000 | Fig. 2C | 2 | 1-2 | 3-4 5-6 |
| 146 E | W 22210 D 99019 | E | 140:250 | 1.0 | 1.5 | | 12000-108000 | Fig. 2C | 2 | 1-2 | 3-4-5 |
| 146 F | W 22211 | E | 600:250 | 1.5 | 4.0 | 12000-108000 | | Fig. 2C | 2 | 3-4-5 | 1-2 |
| 146 G | W 24192 | E | 600:135 | .64 | 1.75 | .09 (3-4) & (7-8) in parallel | 60000-108000 | Fig. 2B | 2 | 1-2 | 3-4 5-6 7-8 |
| 146 H | W 24323 | E | 600:125 | .43 | 5.1 | | 36000-84000 | Fig. 2C | 2 | 3-4 | 1-2 5-6 |
| 146 J | W 25087 | E | 125:50 | .47 | 1.05 | .022 (hi side) | 35000-100000 | Fig. 2B | 2 | 3-4 | 1-2 5-6 |
| 146 K | W 25088 | E | 125:67 | .51 | 1.00 | .022 (hi side) | 35000-100000 | Fig. 2B | 2 | 3-4 | 1-2 5-6 |
| 146 L | W 25089 | E | 125:82 | .61 | 1.05 | .022 (hi side) | 35000-100000 | Fig. 2B | 2 | 3-4 | 1-2 5-6 |
| 146 M | W 25090 | E | 125:95 | .65 | 1.05 | .022 (hi side) | 35000-100000 | Fig. 2B | 2 | 3-4 | 1-2 5-6 |
| 146 N | W 25092 | E | 125:160 | 1.00 | .79 | .022 | 35000-100000 | Fig. 2B | 2 | 1-2 | 3-4 5-6 |
| 146 P | W 25091 | E | 100:135+135 | .62 | 2.3 | .02 | 60000-500000 | Fig. 2B | 2 | 1-1T-2 | 3-5T-4 5-6T-4 |
| 146 S | W 24449 D 157403 | E | 170:135+135 | 1.8 | 3.2 | .07 | 12000-230000 | Fig. 2B | 2 | 1-1T-2 | 3-3T-4 5-6T-6 |
| 146 T | W 27301 | E | 600:600+600 | 31 | 29.3 29.3 | | 200-3500 | Fig. 2B | 2 | 1-2 | 3-4-5 6-7-8 |
| 146 U | W 26239 | E | 600:600 | 17.6 | 21 | | 4000-31000 | Fig. 2B | 2 | 3-4 | 1-2 7-8 5-6 |
| 146 W | W 28303 | E | 108:700 | .61 | 2.03 | .10 (5-6) & (7-8) in parallel | 60000-108000 | Fig. 2B | 2 | 1-2 | 3-4 5-6 7-8 |

* E - Electrostatic Shield M - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henry) | Frequency Range (Cycles) | Size, In. | Height Inch. | Low Wdgs | High Wdgs |
|--------|---------------------|---------|------------------|----------------------|-----------|-------------------------------|-----------------------------|---------------------------|-----------------|-------------|-------------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 146 Y | W 25880 D-158786 | E | 72:63 | .77 | .55 | 0.11 (hi side) | 60000-525000 | Fig. 2B | 2 | 3-4 5-6 | 1-2 |
| 146 AA | W 25879 D-158785 | E | 72:91 | .53 | .85 | 0.11 | 60000-525000 | Fig. 2B | 2 | 1-2 | 3-4 5-6 |
| 146 AB | W 26853 | E | 135:135+540 | .72 | 4.8 | | 60000-108000 | Fig. 2B | 2 | 1-2 | 3-4 5-6 7-8 |
| 146 AC | W 26836 | E | 285:135 | .68 | 1.31 | .037 | 60000-300000 | Fig. 2B | 2 | 1-2 | 3-4 5-6 7-8 |
| 146 AX | | E | 135:135+135 | 1.6 | 3.2 | .055 | 10000-100000 | Fig. 2B | 2 | 1-2 | 3-4 5-6 7-8 |
| 147 A | W 22147 | E | 600:20 133:19 | 0.20 | 5.3 | .009 (hi side) | 60000-150000 | Fig. 2A | 1.25 | 1-2 | 3-4 5-6 |
| 148 A | W 22601 | No | 11:125 | .04 | .25 | | 300000-550000 | 1 17/64-1 1/8x3 15/32 | .44 | 1-2 | 3-4 |
| 148 B | W 25878 D-158784 | No | 11:125 | 0.05 | 0.40 | | 420000-610000 | 1 17/64-1 1/8x3 15/32 | .44 | 1-2 | 3-4 |
| 150 F | W 22187 D-99120 | No | 1200:600 | 9.9 | 27.6 | .465 (hi side) | 4000-10000 | Fig. 2B | 2 | 1-2 | 3-4 |
| 150 A | W 22034 D-99159 | No | 2000:600 | 10.3 | 45.3 | .82 (hi side) | 4000-10000 | Fig. 2B | 2 | 1-2 | 3-4 |
| 151 A | W 22013 D 99161 | No | 1600:600+600 | 35.0 | 98.6 | 3.2 (hi side) | 250-3000 | Fig. 11 | 2.5 | 3-4 7-8 | 2-3 5-6 |
| 152 B | W 21232 D 97564 | No | 600:600+600 | 36 | 24 | 2.5 (hi side) | Voices | Fig. 11 | 2.5 | 3-4 7-8 | 1-2 |
| 152 A | W 22760 | M | 600:200 | 39.0 | 110.0 | 0.3 | 100-5000 | Fig. 7 | 1 | 1-2 3-4 | 5-6 |
| 153 A | W 22339 | E | 600:200+90 | 4/6 3.0(2-3) | 14.3 | 2.0 | 50-10000 | 3 15/16x 7/8 x 2 11/16 | 3. | 1-2-3-4 | 5-6-7-8 |
| 154 A | W 22027 D-99122 | No | 60:6+900 | 16.2 | 69 | 30 (hi side) | 200-3000 | Fig. 2B | 2.25 | 1-2 | 3-4 5-6 |

* E - Electrostatic Shield

E - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L Low Wdgs (Henry) | Frequency Range (Cycles) | Size, In. | Height Inch. | Low Wdgs | High Wdgs |
|-------|------------------------|---------|--|----------------------|------------------------|-------------------------------|-----------------------------|---------------------------|-----------------|---------------------------|----------------------------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 155 B | W 22026 D-99123 | No | 6:300 | 0.56 | 30.3 | 15 (hi side) | 200-3000 | Fig. 2B | 2.25 | 1-2 | 3-4 |
| 156 C | | No | 30400:500 | 38 (av) | 1236 (av) 1620 (av) | | 30-10000 | Fig. 2B | 2.25 | 1-2 | 3-4 5-6 |
| 155 A | | E | 100:100 | .30 | .30 | .008 | 1000-1500000 | 3 1/4 diam x 1-1/2 | 1.25 | Red-Red White | Blue-Blue White |
| 157 A | W 22940 | E | 52:5:600 | 1.15 | 7.9 | | 5000-30000 | 3 1/2x3 1/16 x 2 | 2 | Red-Red White Green | Blue-Blue White Br-Red-Blk |
| 159 A | W 21333 Mod D 98527 | F | 1400:400+400 | 5 | 11 | | 64000-108000 | 7 25/32x1 11/16x 3/8 | | 3-3-4 5-6-6 | 1-2 |
| 159 B | W 28065 | E | 200:1400 | .95 | 8.7 | 0.11 (hi side) | 64000-108000 | 7 25/32x1 11/16 x 3/8 | | 3-4 | 1-2 |
| 160 A | W 2282 | F | 26.5:3000 at 125 ops 125:3550 at 340000 ops | .09 | 10 | | 120000 340000 | Fig. 2 B | 1.75 | 1-2 | 3-4 5-6 |
| 162 A | W 23829 | E | 1:1.12 | 38 | 40 | 15.0 | 35-8000 | Fig. 15 | 8.5 | 3-4 7-8 | 1-2 5-6 |
| 163 A | W 24015 | E | 135:15000 | 1.40 | 70 | | 61000 | 1 27/32x1 3/32x2 13/32 | .25 | 1-2 | 3-4 |
| 165 A | W 24148 | E | 600:40000 | .2 | 4.6 | .000175 | 130000 | Fig. 2A | 1.25 | 1-2 | 3-4 |
| 166 A | | E | 600:240 | 4.6 | 14.3 | 2 | 50-10000 | Fig. 12 | 3 | 1-2 | 5-6 |
| 167 A | W 22365 D-99553 | E | 125:142 | .75 | 1.0 | | 36000-150000 | 3 13/32x2 9/ 16x 1/32 | 2.75 | 1-2 | 3-4 6-13 |
| 167 B | W 22129 D 99654 | E | 585:142 | 1.0 | 3.8 | | 36000-150000 | 3 13/32x2 9/16x 1/32 | 2.75 | 3-8 | 1-2 6-13 |

* E - Electrostatic Shield

M - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdgs (Henry's) | Frequency Range (Cycles) | Size-In. | Weight Lbs. | Low Wdgs | High Wdgs | |
|-------|---------------|---------|--|----------------------|-----------|----------------------------------|-----------------------------|---------------------|----------------|-------------|--------------|--|
| | | | | Low Wdgs | High Wdgs | | | | | | | |
| 167 C | W 22959 | E | 125:243 | .75 | 1.9 | | 36000-150000 | 3 13/32x2 | 2.75 | 1-2 | 3-8 | |
| | D 156099 | | (1-2): (7-3) (6-9) | | | | | 9/16x4 1/32 | | | 6-10 | |
| 167 D | W 22950 | E | 585:243 | 1.9 | 3.8 | | 36000-150000 | 5 13/32x2 | 2.75 | 3-8 | 1-2 | |
| | D 156100 | | | | | | | 9/16x4 1/32 | | | 6-10 | |
| 168 A | W 24506 | E | 135:25000 | 3.5 | 115 | | 58000-111000 | Fig. 2B | 1.5 | 1-2 | 5-6 | |
| | D-157351 | | | | | | | | | | 3-4 | |
| 169 A | W 25317 | E | 135:22300 | 1.42 | 165 | | 60000-108000 | Fig. 2B | 2 | 1-2 | 3-4 | |
| 169 B | W 25437 | E | 135:24500 | 1.56 | 200 | | 60000-108000 | Fig. 2B | 2 | 1-2 | 3-4 | |
| 169 C | W 25502 | E | 135:18500 | 1.60 | 161 | | 60000-108000 | Fig. 2B | 2 | 1-2 | 3-4 | |
| 169 D | W 28307 | F | 335:21000 | 3.24 | 234 | | 12000-60000 | Fig. 2B | 2 | 1-2 | 3-4 | |
| | D 160592 | | | | | | | | | | | |
| 170 A | W 25413 | E | 420:2140 | .92 | 500 | | 20-15000 | Fig. 7 | 1.25 | 1-2 | 3-4 | |
| 170 B | W 26162 | E&M | 600:600 | 1.24 | 100 | 14 | 30-10000 | Fig. 7 | 1.25 | 1-2 | 5-6-7 | |
| | | | | | | | | | | | 3-4 | |
| 171 A | W 25492 | No | Phonograph Coupling Coil - Special Characteristics | | | | | 3 13/16x2 9/16x 2 | | | | |
| | | | | | | | 3 7/8 | | | | | |
| 172 A | W 25772 | M | 30:250 | (av) | (av) | (av) | 35-15000 | 1 3/4 dia x 2 11/32 | | | | |
| | | | | 5 | 45 | 9 | | high | .5 | low | high | |
| 173 A | W 25283 | E | 2:1 | 42 | 21 | 1.1 | Voice | Fig. 11 | 2.2 | 1-2, | 3-4, 7-8 | |
| | D-157691 | | | | | | | | | | 9-10, 11-1 | |
| 173 B | W 25284 | E | 3.38:1 | 42 | 43 | 1.1 | Voice | Fig. 11 | 2.2 | 1-2, 5-6 | 3-4, 7-8 | |
| | D-257890 | | | | | | | | | | 9-10, 11-1 | |
| 173 C | W 25285 | F | 4.60:1 | 42 | 62 | 1.1 | Voice | Fig. 11 | 2.2 | 1-2, 5-6 | 3-4, 7-8 | |
| | | | | | | | | | | | 9-10, 11-1 | |
| 173 D | W 25282 | E | 1.20:1 | 42 | 26.6 | 1.1 | Voice | Fig. 11 | 2.2 | 1-2, 5-6 | 3-4, 7-8 | |
| | | | | | | | | | | | 9-10, 11-1 | |
| 173 F | W | E | 2:1 | 42 | 42 | 1.1 | Voice | Fig. 11 | 2.2 | 1-2, 5-6 | 3-4, 7-8 | |
| | | | | | | | | | | | 9-10, 11-1 | |

* E - Electrostatic Shield

M - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. Low Wdgs (Henry's) | Frequency Range (Cycles) | Size-In. | Weight Lbs. | Low Wdgs | High Wdgs |
|-------|---------------|---------|----------------------|----------------------|-----------|----------------------------------|-----------------------------|----------------|----------------|-------------|---------------|
| | | | | Low Wdgs | High Wdgs | | | | | | |
| 174 A | W 26666 | E | 600:100000 | 10.3 | 1840 | | 255-3145 | 2B | 2.75 | 1-2 | 3-4 |
| | | | 600:100000 | 10.3 | 1840 | | | | | | 7-8 |
| 175 A | W 26478 | | 1:1 | 62 | 118 | 12 | 30-10000 | 2B | 2 | 1-2, 2-4 | 5-6 |
| | | | | | | | | | | | 7-8 |
| 176 A | | No | 600:600 | 35 Min | 35 | .6 (hi side) | Voice | 2 1/16x3 15/16 | 2.75 | 1-2 | 3-4 |
| | | | | 47 Max | 47 | | | x 3 15/16 | | 5-6 | 7-8 |
| 177 A | W 26647 | E&M | 600:46000 | 32.7 ea | 1885 | | Voice | Fig. 2B | 1.25 | 1-2 | 7-8 |
| | | | | wdg | | | | | | | 3-4 |
| 177 B | W 26649 | E&M | 600:200(7-0): | 7.71 ea. | 17.5(7-9) | | Voice | Fig. 2B | 1.25 | 1-2 | 7-9 |
| | | | (1-2, 3-4) | wdg. | | | | | | | 3-4 |
| | | | 600:6000(7-9): (5-6) | | 690 (5-6) | | | | | | 5-6 |
| 177 C | W 34285 | E&M | 1:1 | 6.5 av ea. | | 1 av | Voice | Fig. 2B | 1.25 | (1-2-3) | (7-8-9) |
| | | | | winding | | | | | | | (4-5) (10-11) |
| 178 A | W 25665 | E | 72:62:72:72 | .28 1-2 | .86 3-4 | | 68000-2044000 | 2 9/16x4 | 3.5 | 1-2 | 3-4 |
| | D 158801 | | | or 7-8 | or 5-6 | | | 5/16x 3 7/16 | | | 7-8 |
| 179 A | W 26667 | E | 2700:25000 | 23.1 | 98.4 | | 60000-108000 | Fig. 2A | 1.25 | 1-2 | 5-6-7 |
| | | | | | | | | | | | 3-4 |
| 179 B | W 28841 | E | 70:20000 | .25 | 13 | | 455000 | Fig. 2A | 1.25 | 1-2 | 5-6-7 |
| | | | | | | | | | | | 3-4 |
| 180 A | W 26815 | E | 600:870 | 35.4 | 23.3 | 7(1-2) | 35-10000 | 2 9/16x4 5/16 | 4.25 | 1-2 | 3-4 |
| | | | | | | | | x 4/38 | | | 5-6 |
| 181 A | W 28174 | E | 2000:2000 | 8.08 | 8.20 | .00165 (1-2) | 78000 | Fig. 2A | 1 | 1-2 | 3-4 |
| | | | | | | (3-4) | | | | | |
| 182 A | W 25904 | F | 72:72:72 | .26 | .81 | | 300000-2400000 | Fig. 2B | 1.5 | 1-2 | 3-4-5 |
| | D 155799 | | | | | | | | | | |
| 183 A | W 27839 Mid, | No | 7000:20 | .14 | 6.50 | | 120000 | Fig. 27 | .75 | 1-2 | 3-4 5-6 |
| 183 B | W 30111 | E | 1800:135 | .81 | 12 | .00147 | 60000-108000 | Fig. 27 | .75 | 1-2 | 3-4 |
| 183 C | W 29199 | E | 216:1 | .096 | 21.5 | .000250 | 79500-88000 | Fig. 27 | .75 | 1-2 | 3-4 |
| | | | | | | | | | | | 5-6 |
| 184 A | W 28469 | No | 25:900 | .58 | 6.80 | .14 (hi side) | 60000-110000 | 1 9/16x1 | .5 | 1-2-3 | 4-5 |
| | | | | | | | | 1/8x3 1/4 | | | |

* E - Electrostatic Shield

M - Magnetic Shield

REPEATING COILS

| Code | Reference No. | Shield* | Impedance Ratio | Max. D.C. Resistance | | Min. L. (Henry's) | Frequency Range (Cycles) | Size-In. | Weight Lbs | Low Wdg | High Wdg |
|-------|-----------------|----------|-----------------|----------------------|----------|--------------------------------------|-----------------------------|----------------------------|---------------|----------------|---------------------------|
| | | | | Low Wdg | High Wdg | | | | | | |
| 185 A | W 28761 | E | 135:1619 | | | | 60000-300000 | Fig.27 | .75 | 1-2 | 3-4-5 |
| 185 B | W 28761 | E | 135:30000 | | | | 60000-108000 | Fig.27 | .75 | 1-2-3- | 4-5 |
| | D 161204 | | | | | | | | | | |
| 185 C | W 27283 | E | 1800:135 | 1.35 | 20 | .40 (hi side) | 60000-108000 | Fig.27 | .75 | 1-2-3 | 4-5 |
| 185 D | W 31562 | E | 135:18800 | 1 | 60 | | 60000-108000 | Fig.27 | .75 | 1-2 | 3-4 |
| 186 A | W 24221 | F | 135:135 | .87 | 1.20 | .060 | 5000-150000 | 1 11/16x3 13/32 x 4 3/8 | 2.75 | Red-Red Wh. | Blue-Wh. |
| 187 A | W 28301 | E | 135:870 | 1.05 | 8.7 | .001050 | 79000-88000 | 1 19/32x2 17/32x2 9/16 | .75 | 1-2 | 3-4 |
| 188 A | W 26574 | Double E | 72:72 | .10 | .12 | .000750 | 50000-1000000 | 3 13/32x 1 11/16x4 1/2 | 2 | 1-2 | 3-4 |
| 189 A | W 28417 | No | 1:1 1:8 | 25.3 (1-0) | 56 | .52 (hi side) | Voice | Fig.26 | .75 | 1-2 | 3-4-5-6 4-5 3-4-5-6 |
| 189 C | W 34250 | No | 4000:600+600 | 61.4 | 355 | .12 (1-2, 3-4) (.060 amp.d.c.) | 200-3000 | Fig.26 | .75 | 1-2,3-4 5-6 | 7-8 |
| 191 A | W 31431 | No | 2500:72 | .8 | 13.0 | .00518 (hi side) | 64000-308000 | 1 11/16x3 9/32 3 7/16 | 1.5 | 1-2 | 3-4 |
| 192 A | W 32186 | No | 900:25 | .21 | 38 | .000210 | 64000-108000 | Fig.27 | .75 | 1-2-3 | 4-5 |
| 193 A | W 33818 | No | 72:2100 | .45 | 12.5 | | 60000-150000 | 1 3/4x3 13/32 x 3 7/16 | 1.75 | 1-2 | 3-4 |
| 194 A | W 29198 | E | 16.25:1 | 2.34 | 1.40 | | 79500-88000 | Fig.2A | .75 | 1-2 | 3-4 5-6 |
| 195 A | W 26561 Mod. | No | 72:6500 | .8 | 2.8 | .000548 (hi side) | 556000-808000 | Fig.27 | .75 | 1-2 | 3-4 |
| 196 A | W 34305 | E | 72:17400 | | 18 | .001715 (hi side) | 556000 | 1 11/16x1 11/16x 3 9/32 | .6 | 1-2 | 3-5 |
| 197 A | W 34487 | E | 75:110 | .11 | .09 | .120 | 50-600000 | 3 7/16x5 3/16 x 4 13/32 | 9 | 1-2 | 3-4-5 |

* E - Electrostatic Shield M - Magnetic Shield

RETARDATION COILS

| Code | Reference No. | Total D.C. Resistance | | Total Inductance | | Size-Inches | Weight Lbs | Windings | Watts Safe Heat Dissipation | Superimposed DC Amp for Rating at 1/2 S.C. |
|-------|---------------|-----------------------|----------|------------------|---------|--------------------|---------------|----------|-----------------------------------|---|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 67 A | D-14388 | 6.21 | 7.59 | .003 | - | 13/16x1 3/8x1 3/8 | .05 | 1-2 | .5 | |
| 67 D | | 187 | 190 | .019030 | .025624 | 13/16x1 3/8x1 3/8 | .05 | 1-2 | .5 | |
| 67 E | | .41 | .43 | .000114 | .000127 | 13/16x1 3/8x1 3/8 | .05 | 1-2 | .5 | |
| 67 F | | | 3.2 | .0003 | - | 13/16x1 3/8x1 3/8 | .05 | 1-2 | .5 | |
| 67 G | D-28440 | | 47.0 | .0247 | - | 13/16x1 3/8x1 3/8 | .05 | 1-2 | .5 | |
| 67 H | W-20738 | 6.0 | 6.6 | .00225 | .002346 | 13/16x1 3/8x1 3/8 | .05 | 1-2 | .5 | |
| 67 I | | 2.34 | 3 | .003 | - | 1 3/16x2 1/4x2 1/4 | .3 | 1-2 | 2.5 | |
| 67 J | W-6223 | | 400 | 60 | 70 | Fig.13 | 4.5 | 1-2&3-4 | 6.0 | |
| 67 K | W-7008 | | .22 | .27 | - | 5 1/8x7 3/8x6 3/4 | 39 | 1-2 | 30 | (.25 Wdg/45 amp DC) |
| 67 L | W-8124 | | 50.0 | 7.3 | - | 5 1/8x7 3/8x6 3/4 | 39 | 1-2 | 30 | (7.5 Wdg/45 amp DC) |
| 67 M | W-7188 | | 530.0 | 250 | - | Fig.20 | 2.5 | 1-2&3-4 | 5 | |
| 67 N | W-6353 | | 300 | 30 | - | Fig.20 | 2.5 | 1-2 | 5 | (33 Wdg/100 amp DC) |
| 67 O | | | | (.010 amp DC) | | | | | | |
| 67 P | W-8554 | | 5400 | 350 | - | Fig.20 | 2.5 | 1-2 | 5 | (100 Wdg/60 amp DC) |
| 67 Q | D-93212 | | | (.0015 amp DC) | | | | | | |
| 67 R | W-7823 | | 100 | 4.3 | - | Fig.11 | 2.75 | 1-2&3-4 | 6.0 | 1.5 |
| 67 S | | | | (300) | | | | | | |
| 67 T | W-7699 | | 224.0 | 25.0 | - | Fig.11 | | 1-2&3-4 | | 3.0 |
| 67 U | | | | (20 B mils) | | | | | | |
| 67 V | | | | 15.0 | | | | | | |
| 67 W | | | | (1000 3V) | | | | | | |
| 67 X | W-8749 | | 4600 | 120 | - | Fig.11 | 2.75 | 1-2&3-4 | 6.0 | .0003 |
| 67 Y | W-20877 | | 400 | 45 | 54 | Fig.11 | 2.75 | 1-2&3-4 | 6.0 | .0025 |
| 67 Z | | | 100 | 6.6 | 8.0 | Fig.11 | 2.75 | 1-2&3-4 | 6.0 | .005 |
| 67 AA | | | | (.005 amp DC) | | | | | | |
| 67 AB | | | | 20 | | | | | | |
| 67 AC | W-20992 | | 75 | 4.0 | - | Fig.11 | 2.75 | 1-2 | 6.0 | |
| 67 AD | D-98332 | | | | | | | | | |
| 67 AE | | 115 | 117 | 25 | - | Fig.11 | 2.75 | 1-2&3-4 | 6.0 | |
| | | (ca wdg) | (ca wdg) | | | | | | | |

Sheet 33

RETARDATION COILS

| Code | Reference No. | Total DC Resistance | | Total Inductance | | Size-Inches | Wt. lbs | Windings | Watts Safe Heat Dissipation | Superimposed DC to Max. Ind. |
|-------|--------------------|---------------------|---------|------------------|---------|-----------------------|---------|------------------------------------|-----------------------------|------------------------------|
| | | Minimum | Maximum | Minimum (Henry) | Maximum | | | | | |
| 149 H | W-21285 D-98826 | | 25 | .8 | - | Fig.11 | 2.75 | 1-2 | 6.0 | |
| 149 J | | | 75 | 4.0 | - | Fig.11 | 2.75 | 1-2 | 6.0 | |
| 149 K | | | 234 | 27 | 33 | Fig.11 | 2.75 | 1-283-4 | 6.0 | |
| 153 A | W-7991 | | 4.1 | .00143 | .00158 | 3/4x1 1/8x1 1/8 | .07 | 1-2 | .5 | |
| 158 A | W-7555 | | 160.0 | 5.4 | 6.2 | Fig.17 | 12.5 | 1-283-4 | 12.5 | .3 |
| 161 A | W-6924 D-63747 | | 2.0 | .0005 | - | 1 15/32x 7/8x 11/32 | | 1-283-4 | | |
| 167 A | | en. wdg. | 220.0 | 2.7 | 3.1 | Fig.2-B | 2.2 | 1-283-4 | 6 | |
| 167 B | | | 516.0 | 5.5 | 6.3 | Fig.2-B | 2.2 | 1-283-4 | 6 | |
| 167 C | | | 588.0 | 5.88 | 6.12 | Fig.2-B | 2.2 | 1-283-4 | 6 | |
| 167 D | | | 36 | .745 | .781 | Fig.2-D | 2.2 | 1-283-4 | 6 | |
| 167 F | | | 22 | .745 | .255 | Fig.2-B | 2.2 | 1-283-4 | 6 | |
| 167 G | W-26530 | | 38 | 1.118 | 1.130 | Fig.2-B | 2.2 | 1-A ₁ A ₁ -6 | 6 | |
| 167 H | W-26531 | | 34 | .8852 | .8940 | Fig.2-B | 2.2 | 1-A ₁ A ₁ -6 | 6 | |
| 167 J | W-26532 | | 25 | .6809 | .6876 | Fig.2-B | 2.2 | 1-A ₁ A ₁ -6 | 6 | |
| 167 K | W-26533 | | 23 | .5928 | .5988 | Fig.2-B | 2.2 | 1-A ₁ A ₁ -6 | 6 | |
| 167 L | W-26534 | | 17.5 | .5032 | .5082 | Fig.2-B | 2.2 | 1-A ₁ A ₁ -6 | 6 | |
| 167 M | W-26534 | | 16 | .4366 | .4410 | Fig.2-B | 2.2 | 1-A ₁ A ₁ -6 | 6 | |
| 172 B | W-9090 | | 310 | 18.0 | | 4 3/4x3 3/8x3 1/2 | 6 | 1-2 | 6 | (18.5H.v/.120 amp d.c.) |
| 174 A | W-7652 D-90821 | | 1690 | 30 | | Fig.9 | .5 | 1-2 | 3 | .030 |
| 174 B | W-8751 | | 35 | .80 | | Fig.9 | .5 | 1-2 | 1 | |
| 175 A | D-85075 | | .6 | .0012 | | 1 27/64 dia.x2 7/8 lg | | 1-283-4 | | |
| 176 A | D-91882 | | 850 | 35 | | Fig.21A | 3.25 | 1-283-4 | 4 | .010 |

Sheet 34

RETARDATION COILS

| Code | Reference No. | Total DC Resistance | | Total Inductance | | Size-Inches | Wt. lbs | Windings | Watts Safe Heat Dissipation | Superimposed DC to Max. Ind. |
|-------|-------------------|---------------------|------------|------------------|---------|-----------------------|---------|----------|-----------------------------|------------------------------|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 176 C | W-9905 | | 5400 | 350 | | Fig.21A | 3.25 | 1-2 | 4 | (400 H.v/.0005 amp d.c.) |
| 176 D | W-9486 | | 600 | 30 | | Fig.21A | 3.25 | 1-2 | 4 | (33 H.v/.040 amp d.c.) |
| 179 A | W-9009 | | 5400 | 350 | | Fig.3 | 2.75 | 1-2 | 5 | |
| 181 A | W-8883 | | 80 | 5.10 | 6.20 | Fig.14 | 6.25 | 1-283-4 | 6 | .3 |
| 182 C | | | 265 | .51 | .95 | 1 17/64x1 1/2x3 15/32 | .5 | 1-283-4 | 3 | .50 |
| 182 D | | | 21.3 | .03435 | .03505 | 1 17/64x1 1/2x3 15/32 | .5 | 1-2 | 3 | |
| 182 E | | | 21.4 | .0348 | .0359 | 1 17/64x1 1/2x3 15/32 | .5 | 1-283-4 | 3 | |
| 182 G | | | 19.5 | .0279 | .0289 | 1 17/64x1 1/2x3 15/32 | .5 | 1-283-4 | 3 | |
| 182 H | | | 19.5 | .0290 | .0289 | 1 17/64x1 1/2x3 15/32 | .5 | 1-283-4 | 3 | |
| 182 J | | | 18.0 | .0177 | .0183 | 1 17/64x1 1/2x3 15/32 | .5 | 1-283-4 | 3 | |
| 182 K | | | 18.2 | .0253 | .0251 | 1 17/64x1 1/2x3 15/32 | .5 | 1-283-4 | 3 | |
| 182 S | W-8953 D-92417 | | 54 | .365 | .201 | 1 17/64x1 1/2x3 15/32 | .5 | 1-2 | 3 | .17 |
| 182 T | W-22907 | 14.25 | 15.75(2+3) | - | .15 | 1 17/64x1 1/2x3 21/64 | .5 | 1-2-3 | 3 | .3 |
| 182 U | D-90341 | | 1.87 | .00543 | .00557 | 1 17/64x1 1/2x3 21/64 | .5 | 1-2 | 3 | |
| 182 W | D-90351 | | 3.23 | .00475 | .00525 | 1 17/64x1 1/2x3 21/64 | .5 | 1-2 | 3 | |
| 184 A | W-8359 | | | .00250 | | 1 5/8x1 15/32x 3 1/2 | .75 | 1-283-4 | 3 | |
| 189 A | W-9315 | | 250 | 12 | - | 3 5/8x3 1/2x 3 3/8 | 3.5 | 1-2 | 7 | (10 H. with .150 amp) |
| 189 C | D-90346 | | 23 | .00641 | .00687 | 2 13/32x1 1/2x2 27/32 | | 1-2 | | |
| 197 A | W-9242 W-9249 | | 250 | 12 | | Fig.18 F | 3.5 | 1-2 | 7 | (10 H.v/.150 amp d.c.) |
| 199 A | D-90000 | | 7.3 | .45 | | Fig.21A | 5 | 1-283-4 | 6 | |

RETARDATION COILS

| Code | Reference No. | Total DC Resistance | | Total Inductance | | Size-Inches | Wt. Lbs | Windings | Watts Safe Heat Dissipation | Superimposed DC Amps to Reduce Ind. 1% |
|--------|---------------|---------------------|---------|----------------------------------|----------|--------------------------|---------|----------|-----------------------------|--|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 199 C | | | 530 | 19.8 | 21.8 | Fig. 21A | 3.5 | 1-2 | 7 | (20.8 H.w/.020-.070 amp dc) |
| 199 D | W-20241 | 900 | 1060 | 38 (.060 amp DC)(.060 amp DC) | | Fig. 21A | 3.5 | 1-2 | 7 | (44 H.w/.055 amp dc) |
| 199 E | | | 18 | .7 | | Fig. 21A | 3.5 | 1-2 | 7 | 0.65 |
| 200 A | | | 12 | .00485 | .000515 | 1 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 B | | | 95 | .01455 | .01545 | 1 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 C | | | 36 | .0029 | .0031 | 1 dia.x1 5/32 long | .1 | 1-0 | .5 | |
| 200 D | | | 120 | .04074 | .04326 | 1 1/8 dia x1 5/32 long | .1 | 1-0 | | |
| 200 H | D-98616 | | 8 | .00059 | .00103 | 1 3/16 dia.x1 5/32 lg | .1 | 1-0 | | |
| 200 J | | | 40 | .00475 | .00525 | 1 1/4 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 M | | | 18.9 | .00550 | .00572 | 1 5/16 dia x1 5/32 long | .1 | 1-0 | | |
| 200 N | | | 53 | .00230 | .00239 | 1 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 R | | | 750. | .247 | .257 | 1 5/16 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 S | | | 1.5 | .000211 | .000219 | 1 1/16 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 T | | | 76 | .004975 | .005025 | 1 dia x1 5/32 long | .1 | 1-0 | | |
| 200 U | | | 3.5 | .000376 | .000384 | 1 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 W | | | .50 | .0000215 | .0000235 | 1 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 Y | | | 440 | .108 | .113 | 1 3/16 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 AA | | | 350 | .069 | .072 | 1 1/8 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 AD | | | 64 | .0095 | .0105 | 1 1/8 dia x 1-5/32 long | .1 | 1-0 | | |
| 200 AE | | | 20 | .00210 | .00219 | 1 3/16 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 AG | | | 47 | .0050 | .0052 | 1 1/4 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 AH | | | 48 | .0053 | .0055 | 1 1/4 dia.x1 5/32 long | .1 | 1-0 | | |

RETARDATION COILS

| Code | Reference No. | Total DC Resistance | | Total Inductance | | Size - Inches | Weight Lbs | Wdgs. | Watts Safe Heat Dissipation | Superimpose DC Amps to Reduce Ind. 1% |
|----------|---------------|---------------------|---------|--------------------|---------|-------------------------|------------|---------|-----------------------------|---------------------------------------|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 200AJ | | | 12 | .00140 | .00146 | 1 3/16 dia x1 5/32 long | .1 | 1-0 | | |
| 200 AK | | | 45 | .01425 | .01575 | 1 1/4 dia x1 5/32 long | .1 | 1-0 | .5 | |
| 200 AN | | | 28 | .00170 | .00180 | 1 dia.x 1 5/32 long | .1 | 1-0 | .5 | |
| 200 AS | D-99870 | | 12.5 | | .007 | 1 3/4 dia x1 5/32 long | .1 | 1-0 | | |
| 200 AT | D-99871 | | 4.5 | (approx.) .0017 | | 1 7/16 dia x1 5/32 long | .1 | 1-0 | | |
| 200 AU | | | 175 | .0347 | .0361 | 1 1/4 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 AW | | | 67 | .0119 | .0124 | 1 1/4 dia x1 5/32 long | .1 | 1-0 | | |
| 200 AY | | | 60 | .0094 | .0098 | 1 1/4 dia.x1 5/32 long | .1 | 1-0 | | |
| 200 BA | | | 35 | .00575 | .00600 | 1 1/8 dia x1 5/32 long | .1 | 1-0 | | |
| 200 BB | | | 31 | .00445 | .00465 | 1 1/8 dia x1 5/32 long | .1 | 1-0 | | |
| 200 BC | | | 28 | .00347 | .00361 | 1 1/8 dia x1 5/32 long | .1 | 1-0 | | |
| 200 BD | | | 27 | .00322 | .00336 | 1 1/8 dia x1 5/32 long | .1 | 1-0 | | |
| 200 BE | | | 21 | .00208 | .00217 | 1 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 BG | | | 150 | .024 | .026 | 1 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 BH | | | 106 | .027 | .029 | 1 1/4 dia x1 5/32 long | .1 | 1-0 | | |
| * 200 BI | D-158813 | 88 | .88 | .000018 | .00020 | 1 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 BJ | | | 3.6 | .00050 | .00055 | 1 1/8 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 BL | D-158814 | | 1 | .000022 | .000024 | 1 dia x 1 5/32 long | .1 | 1-0 | | |
| 200 BM | D-158815 | | 1.1 | .000027 | .000029 | 1 dia. x 1 5/32 long | .1 | 1-0 | | |
| 200 BN | D-158816 | | .70 | .000057 | .000060 | 1 dia x 1 5/32 high | .1 | 1-283-4 | | |
| 200 EP | | | 6.2 | .0013 | .0014 | 1 dia x 1 5/32 high | .1 | 1-0 | | |
| 200 ER | D-158899 | | 18 | .0047 | .0053 | 1 1/16 dia x1 5/32 hi | .1 | 1-0 | | |

RETARDATION COILS

| Code | Ref.No. | Tot.DC Resistance | | Total Inductance | | Size-Inches | Weight | | Watts Safe Heat Dissipation | Superimposed DC Amps to Reduce Ind. 15% |
|--------|----------|-------------------|----------|------------------|----------|-------------------------|--------|---------|-----------------------------|---|
| | | Minimum | Maximum | Minimum | Maximum | | Lbs. | Wdgs. | | |
| 200 BS | | | 35 | .0095 | .0105 | 1 1/4 dia x 1 5/32 high | .1 | 1-0 | | |
| 200 BT | N-159159 | | 80 | .0375 | .0385 | 1 3/4 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 BU | | | 115 | .0193 | .0195 | 1 1/8 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 BW | | | 1.2 | .00340 | .000360 | 1 1/4 dia x 1 5/32 high | .1 | 1-2&3-4 | | |
| 200 BY | N-158344 | | (ea.wdg) | (both wdgs SA) | | 1 dia.x1 5/32 hi | .1 | 1-0 | | |
| 200 CA | D-158345 | | 1.3 | .000145 | .000155 | 1 1/8 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 CB | N-158346 | | 9.7 | .000970 | .001030 | 1 1/4 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 CC | | | 1.3 | .0000627 | .0000693 | 1 dia. x 1 5/32 high | .1 | 1-0 | | |
| 200 CD | | | .89 | .0000323 | .0000357 | 1 dia x 1 5/32 high | .1 | 1-0 | | |
| 200 CE | | | 1.15 | .00243 | .00257 | 1 3/16 dia.x1 5/32 hi | .1 | 1-0 | | |
| 200 CF | | | 3.4 | .00030 | .0084 | 1 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 CG | | | 21 | .0144 | .0156 | 1 3/8 dia.x1 5/32 high | .1 | 1-2&3-4 | | |
| 200 CH | | | (ea.wdg) | (both wdgs SA) | | 1 3/16 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 CI | | | 195 | .048 | .052 | 1 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 CJ | | | 12.7 | .00192 | .00208 | 1 dia.x1 5/32 high | .1 | 1-0 | | |
| 200 CK | | | .50 | .000095 | .000105 | 1 1/8 dia.x1 5/32 high | .1 | 1-2&3-4 | | |
| 200 GL | | 1.7 | (ea.wdg) | (both wdgs.PA) | | 1 1/8 dia.x1 5/32 high | .1 | 1-0 | | |
| 203 A | W-8866 | | 2.3 | .9 | - | Fig.8 | .2 | 1-2 | 1 | .1 |
| 206 A | N-93647 | | 15.7 | .21 | | | | | | |
| 206 B | W-20261 | | .0920 | .011 | | 6 3/4x 4 1/8 x 4 1/8 | 13.5 | 1-2 | 15.0 | (.009 H.w/9 amp d-c) |
| 209 A | W-20426 | | 135 | 10.0 | | 6 3/4x 4 1/8 x 4 1/8 | 13.5 | 1-2 | 15.0 | (10.9 H. w/.200 amp d-c) |
| 212 B | W-9835 | | .23 | .000238 | .000246 | 1 1/2x 1 17/64 x 3 5/32 | .5 | 1-2 | 3 | 3.0 |
| | | | 850 | 80 | | Fig 2-B | 2.25 | 1-2 | 4 | .003 |

RETARDATION COILS

| Code | Ref.No. | Tot.DC Resistance | | Total Inductance | | Size - Inches | Weight | | Watts Safe Heat Dissipation | Superimposed DC Amps. to Reduce Ind. 15% |
|------|-------------------------------|-------------------|---------|------------------|----------------|---------------|--------|---------|-----------------------------|--|
| | | Minimum | Maximum | Minimum | Maximum | | Lbs. | Wdgs. | | |
| 213B | W-7733 | | 5800 | 187 | (1-2) | Fig.2-B | 2.25 | 1-2&3-4 | 4 | .001 |
| 216A | D-90477 W-20894 D-96825 | | 510 | 12.6 | | Fig.5 | 2.75 | 1-2 | 4 | (14 H.w/.065 amp d-c) |
| 220A | W-21446 | | 3.1 | .33 | | Fig.18A | 8 | 1-2 | 12.5 | (.19 H.w/2.0 amp d-c) |
| 220B | W-21566 | | | 17.0 | | Fig.18A | 8 | 1-2 | 9 | (22 H.w/.175 amp d-c) |
| 220D | W-21530 | | 145 | 17.0 | | Fig.18A | 8 | 1-2 | 9 | (13.6 H.w/.165 amp d-c) |
| 220E | D-98015 Modified | | 1.0 | | | Fig.18A | 8 | 1-2 | 9 | (.14 H.w/0.6 amp d-c) |
| 220F | W-21531 D-98016 | | 145 | 12.5 | | Fig.18A | 8 | 1-2 | 9 | (14 H.w/.165 amp d-c) |
| 220G | W-22769 | | .50 | .100 | | Fig.18A | 8 | 1-2 | 9 | (.043 H.w/1.75 amp d-c) |
| 220H | W-22874 | | 78 | 7.0 | | Fig.18A | 8 | 1-2 | 9 | (7.5 H.w/.225 amp d-c) |
| 220J | W-26178 | | 32.5 | 3.4 | | Fig.18A | 8 | 1-2 | 9 | (3.6 H.w/.5 amp d-c) |
| 221A | W-21575 | | 6300 | 160 | | Fig.7 | 1 | 1-2 | 2.0 | |
| 221B | W-21625 | | 70 | (.005 amp d-c) | | Fig.7 | 1 | 1-2 | 2.0 | |
| 221C | W-21853 | | 200 | 2.0 | (.050 amp.d-c) | Fig.7 | 1 | 1-2 | 2.0 | |
| 221D | | | 1100 | 5 | (.045 amp.d-c) | Fig.7 | 1 | 1-2 | 2.0 | |
| 221E | W-22354 | | 1100 | 35 | (.006 amp.d-c) | Fig.7 | 1 | 1-2 | 2.0 | |
| 221F | W-22456 D-99427 | | 1100 | 25 | (.022 amp.d-c) | Fig.7 | 1 | 1-2 | 2.0 | (30 H.w/.028 amp.d-c) |
| 221G | W-23042 | | 200 | 4.0 | | Fig.7 | 1 | 1-2 | 2.0 | (4 H.w/.130 amp d-c) |
| 221H | W-22766 | | 460 | 8.5 | (.060 amp.d-c) | Fig.7 | 1 | 1-2 | 2.0 | (12 H.w/.060 amp.d-c) |

RETARDATION COILS

| Code | Ref.No. | Tot. DC Resistance | | Total Inductance | | Size-Inches | Weight | | Watts Safe Heat Dissipation | Superimposed DC Amps. to Reduce Ind. 15% |
|-------|---------|--------------------------------|---------|------------------|---------|----------------------|--------|---------|-----------------------------|--|
| | | Minimum | Maximum | Minimum | Maximum | | Lbs | Wdgs | | |
| 222A | | | 25 | 4.0 | | 9 5/8 x 9 x 8 1/2 | 72 | 1-2 | 40 | (4.7 H.w/1.2 amp.d-o) |
| 222B | W-21921 | | .26 | .18 | | 9 5/8x9x8 1/2 | 72 | 1-2 | 40 | (.055 H.w/10 amp.d-o) |
| 223A | | | 8 | 5 | | Fig.2-B | 2 | 1-2&3-4 | 6 | .0003 |
| 225A | | | 1.3 | | | 7/8 dia x 5/8 long | .1 | | .8 | |
| 227B | | 92 | 115 | .5 | .8 | 1-1/2x1 1/2 x 2 | | 1-2 | | |
| 228A | W-22194 | | .56 | .180 | | 10 3/16x9x8 1/2 | 80 | 1-2 | 45 | (.08 H.w/9 amp d-o) |
| 228B | | | .56 | .180 | | 9 29/32x9x9 3/16 | 80 | 1-2 | 45 | (.08 H.w/9 amp d-o) |
| 228C | W-25617 | | .27 | .2 | | 9 29/32x9x9 3/16 | 103 | 1-2 | 45 | (.060 H.w 10 amp d-o) |
| 230A | | Suppression Coil for K Carrier | | | | Unpotted | | 1-2,3-4 | | |
| | | | | | | | | 5-6,7-8 | | |
| 230B | | Suppression Coil for K Carrier | | | | Unpotted | | 1-2&3-4 | | |
| 231A | | Suppression Coil for K Carrier | | | | Fig.2-B | 1.75 | 1-2,3-4 | | |
| | | | | | | | | 5-6,7-8 | | |
| 231B | | | 1.1 | .0260 | .0272 | Fig.2-B | 1.75 | 1-2&3-4 | | |
| 231C | D-99737 | Suppression Coil for J Carrier | | | | Fig.2-B | 1.75 | 1-2&3-4 | | |
| 231D | W-23866 | | 1.0 | 3.32 | 3.68 | Fig.2-B | 1.75 | 1-2 | | |
| 231E | | | 4.0 | 8.16 | 8.84 | Fig.2-B | 1.75 | 1-2&3-4 | | |
| 231F | | | 4.9 | .13 | .14 | Fig.2-B | 1.75 | 1-2 | | |
| 231G | | Suppression Coil for K Carrier | | | | Fig.2-B | 1.75 | 1-2&3-4 | | |
| 232B | | | .48 | .32 | | Fig.2-D | 2 | 1-2 | | |
| 232C | | | 1.15 | .81 | | Fig.2-B | 2 | 1-2&3-4 | | |
| 232D | | Suppression Coil for K Carrier | | | | Fig.2-B | 2 | 1-2&3-4 | | |
| | | | | | | | | 5-6,7-8 | | |
| 232E | | Suppression Coil for K Carrier | | | | Fig.2-B | 2 | 1-2&3-4 | | |
| 233A | W-22752 | | .0040 | .00120 | | 14 1/8 x 9 x 8 15/16 | 120 | 1-2 | 50 | (.0012 H.w/112 amp d-o) |
| 233 B | W-23222 | | .0320 | .0140 | | 12 5/8 x 9 x 8 3/4 | 120 | 1-2 | 50 | (.016 H.w/25 amp d-o) |

RETARDATION COILS

| Code | Ref.No. | Tot. DC Resistance | | Tot. Inductance | | Size-Inches | Weight | | Watts Safe Heat Dissipation | Superimposed D.C.Amps to Reduce Ind. 15% |
|-------|----------|--------------------------------|---------|-----------------|---------|--|--------|------------|-----------------------------|--|
| | | Minimum | Maximum | Minimum | Maximum | | Lbs | Wdgs | | |
| 233C | W-26186 | | .0620 | | | 10 7/8x9x8 27/32 | 128 | 1-2 | 50 | (.030 H/w 30 amp d-o) |
| 234 A | W-21951 | | 2.3 | .500 | | Fig. 23A | 27 | 1-2 | 20 | (.80 H.w/3 amp.d-o) |
| 234B | Modified | | 5.7 | 2.8 | | Fig.23A | 27 | 1-2 | 20 | (.45 H.w/2 amp.d-o) |
| | W-22161 | | | | | | | | | |
| 240A | W-22784 | | .01250 | .0019 | | Fig.18B | 12 | 1-2 | 14 | (.002 H.w/10 amp.d-o) |
| 240B | W-22787 | | 355. | 29. | | {except with Fig.18B}terminal bushings | 12 | 1-2 | 14 | (23 H.w/.175 amp.d-o) |
| 240C | | | .01250 | .00155 | | Fig.18B | 12 | 1-2 | 14 | (.0011 H.w/20 amp d-o) |
| 240D | W-22876 | | 75. | 7.8 | | Fig.18B | 12 | 1-2 | 14 | (5.5 H.w/.420 amp.d-o) |
| 240E | W-34251 | | .0270 | .0035 | | 4 5/16x5 1/2x4 9/16 | 12.25 | 1-2 | | |
| | | | | | | | | | | (10 amp.d-o) |
| 241A | W-22829 | | 250. | 18.0 | | Fig.24 | 6.5 | 1-2 | 8 | (16.0 H.w/.150 amp.d-o) |
| 241B | W-24017 | | 112. | 8.6 | | Fig.24 | 6.5 | 1-2 | 8 | (10 H.w/.210 amp.d-o) |
| 241C | Modified | | .025 | .000500 | | Fig.24 | 6.5 | 1-2 | 8 | (.0004 H.w/8 amp.d-o- 60 ka) |
| | W-24061 | | | | | | | | | |
| 241D | W-23900 | | 260. | 22. | 30 | Fig.24 | 6.5 | 1-2 | 8 | (18 H.w/.175 amp.d-o) |
| 241E | W-24217 | | 71 | 6.8 | | Fig.24 | 6.5 | 1-2 | 8 | (6.5 H.w/.250 amp.d-o) |
| 241F | W-25679 | | 26 | | | Fig.24 | 6.5 | 1-2&3-4 | 8 | (2.8 H.w/0.50 amp.d-o) |
| | | (ea. wdg) | | | | | | | | |
| 241G | W-28430 | | .450 | .028 | .0375 | Fig.24 | 6.5 | 1-2 | 8 | (.035 H.w/30 amp.d-o) |
| 243A | W-23052 | | .00570 | .00145 | | Fig.23B xcept with terminal bushings | 37 | 1-2 | 23 | (.0011 H.w 50 amp.d-o) |
| 246A | D-156247 | Suppression Coil for J Carrier | | | | 4 1/2x2x3 7/8 | 2 | 1-2&3-4 | | |
| 247A | W-21364 | | 4.5 | .0788 | .0804 | 5 3/16x4 3/8x5 3/16 | 1-2 | 8&3-4 | | |
| | D-98824 | | | | | | | | | |
| 248A | W-21658 | 4 KC Harmonic generator | | | | Fig.2B | 1.75 | 1-2 | | |
| | D-98825 | | | | | | | | | |
| 250A | W-23727 | | 50 | .9 | | 2 3/8x1 1/2x1 3/8 | .5 | GN-C, LI-R | 2.5 | (.63 H.w/.125 amp.d-o) |
| | | | | (.060 amp.d-o) | | | | | | |

RETARDATION COILS

| Code | Ref. No. | Tot. DC Resistance | | Tot. Inductance | | Size-Inches | Weight Lbs | Wdgs | Watts Safe-Heat Dissipation | Superimposed DC Amps to Reduce Ind. 15% | |
|-------|---------------------|--------------------|-----------|-----------------|----------------|--------------------------------|--------------------------|--------------------------|-----------------------------------|--|---------------------|
| | | Minimum | Maximum | Minimum | Maximum | | | | | | |
| 251A | | | 5.1 | .0171 | .0189 | 1 17/64x1 1/2x3 15/32 | .5 | 1-8 with taps | | | |
| 251B | | | 34. | .1305 | .51595 | 1 17/64x1 1/2x3 15/32 | .5 | 1-8 with taps | | | |
| 252A | W-20293 N-96167 | | 46. | 7.65 | | 7 1/4x5x5 5/8 | 35 | 1-2 | 20 | (7.5 H.w/.700 amp.d-c) | |
| 255A | W-24144 | | .390 | | | 7 21/32x6 11/16x6 | 17/32 | 4E.5 | 1-2 | 30 | (.13 H.w/8 amp.d-c) |
| 256F | | | 50 | 9 | | 1 1/2x2 x 1 3/8 | .375 | GNC-C, LI-R | 2.5 | (.63 H.w/.125 amp d-c) | |
| 257A | W-24260 D-157235 | | 5.8 | .6 | 1.1 | 3 9/32x1 11/16x3 | 7/16 | 2. | 1-2&3-4 | 6 | |
| 259A | W-25493 | | .00270 | .0012 | | 15 5/8x9x9 1/2 | 190 | 1-2 | 90 | (.001 H. at 200 amp d- | |
| 260A | | | | | | Suppression Coil for K Carrier | Unpotted | | 1-2,3-4 5-6,7-8 | | |
| 260B | | | | | | Suppression Coil for K Carrier | Unpotted | | 1-2, 3-4 | | |
| 261A | | | | | | Suppression Coil for J Carrier | 2 13/32x3 3/4 x 4 3/8 | 2.75 | 1-2,3-4 5-6,7-8 | | |
| 262A | | | | | | Suppression Coil for J Carrier | 2 7/8x5 7/32x8 3/16 | 6 | 1-2,3-4 5-6,7-8 | | |
| 263A | D-157871 | (1-2 to G) | 1.45 | .6 | 1.1 | 2 13/32x3 3/4x4 11/32 | .275 | 1-3-2 | 6 | .080 amp. | |
| 264 A | D-157895 | (1-2 to G) | 1.45 | .6 | 1.1 | 4 11/16 dia. x 5 1/2 high | 12.5 | 1-5-2 | 6 | .080 amp. | |
| 266A | | | 100 | .4 | (.100 amp.d-c) | 25/32 x 1 25/32 x 1 | | 1-2 | | | |
| 268A | D-158496 | | 85 | | | cycle harmonic generator | Fig. 2B | 1-2 | | | |
| 269A | W-26456 | | 5 | 700 | | 1 7/8 x 1 5/16x1 3/4 | 1 oz | 1-2 | | | |
| 271A | W-26595 | | 5750 | 325 | | Microhen | Fig.2B | 1 | 1-2 | | |
| 272A | W-26960 | | 75 | | (.003 amp,d-c) | 5 29/32x6 11/16x6 5/8 | 32 | 1-2 3-4 5-6 7-8 | | | |
| | | | (ea. wdg) | | | | | | | | |

RETARDATION COILS

| Code | Ref. No. | Tot. DC Resistance | | Tot. Inductance | | Size-Inches | Weight Lbs | Wdgs | Watts Safe Heat Dissipation | Superimposed DC Amps to Reduce Ind. 15% |
|-------|----------|--------------------|----------------|-----------------|----------------------|--------------------------------|---------------|------------------|-----------------------------------|--|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 273A | | | 87 | 3.44 | 3.48 | 4 5/16x1 11/16x4 13/32 | | 1-6 with taps | | |
| 273B | | | 242 | 8.55 | 8.73 | 4 5/16x1 11/16x4 13/32 | | 1-2 | | |
| 274D | | | 161.50 | 178.50 | .9 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 274F | | | 950 | 1050 | 4.7 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 274G | | | 475 | 525 | 8.4 | Fig.26 | 2 | 1-2 | 6 | |
| 274H | | | 114 | 126 | 1.9 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 274J | | | 475 | 525 | 7.35 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 274K | | | 151 | 168 | 1.5 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 274L | | | 380 | 420 | 5 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 274N | | | (232.5 475) | 367.5 | 2(3-4) (1-2)(5-6) | Fig.26 | 2 | 1-2,3-4,5-6 | 6 | |
| 274P | | | 888 | 982 | 10.0 | Fig.26 | 2 | 1-2 | 6 | |
| 274R | | | 156.8 | 173.2 | 3.4 | Fig.26 | 2 | 1-2 | 6 | |
| 274S | | | 28.5 | 31.5 | .75 | Fig.26 | 2 | 1-2 | 6 | |
| 274T | | | 152 | 168 | .9 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 274U | | | 142.5 | 157.5 | 3 | Fig.26 | 2 | 1-2 | 6 | |
| 274V | | | 190 | 210 | .475 | Fig.26 | 2 | 1-2,3-4 | 6 | |
| 274AB | | | 47.5 | 52.5 | 1.3 | Fig.26 | 2 | 1-2 | 6 | |
| 274AC | | | 86.4 | 105.6 | 2.5 | Fig.26 | 2 | 1-2&3-4 | 6 | |
| 275A | | | | 68 | 23 | 3 7/16x4 5/8x4 1/2 | 8 | 1-2 | 8 | |
| 276A | | | | | (.020 amp.d-c) | Suppression Coil for J Carrier | 3.5 | 1-2 & 3-4 | | |
| 276B | | | | | | 3 11/32x4 23/32x5 19/32 | 3.5 | 1-2&3-4 | | |
| 277A | W-28135 | | 2350 | 270 | | Fig.21A | 3 | 1-2 | | |
| | | | | | (.007 amp.d-c) | | | | | |

RETARDATION COILS

| Code | Ref. No. | Tot. D.C. Resistance | | Total Inductance | | Size-Inches | Wt. lbs | Wdgs | Watts Safe Heat Dissipation | Superimposed DC Amps to Reduce Ind. 15% |
|------|----------------------|----------------------|--------------------------|--|----------------|-------------------------|---------|---------|-----------------------------|--|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 278A | W-28955 | | .440 | .008 | .016 | Fig. 28 | 1 | 1-2 | 4 | (.01 H.w./64 amp d-c) |
| 278B | W-31495 | | 14.5 | .600 | .730 | Fig. 28 | 1 | 1-3 | | |
| 278C | | | 200. | 5 | | Fig. 28 | 1 | 1-3 | - | |
| 278D | W-34654 | | 16. | (.045 amp.d-c) .257 .315 (no d-c.60) | | Fig. 28 | 1 | 1-3 | - | |
| 279A | W-28093 D-160512 | | 11 | .0195 | .0199 | 1 13/32x1 23/32x3 15/32 | | 1-2-3 | | |
| 279B | W-26475 Mod. | | 1.1 | .00294 | .00306 | 1 13/32x1 23/32x3 15/32 | | 1-283-4 | | |
| 281A | W-28429 | | 2.15 | 7.5 (0.280 amp d-c) 90. (.020 ") | | 5 5/32x6 11/16x6 5/8 | 26 | 1-2 | 20 | (.027 H.w./3.0 amp.d-c) |
| 281B | W-34488 | | 115 | | | 5 5/32x6 11/16x6 5/8 | 25 | 1-2 | - | |
| 282A | W-26654 | | 128 | KC Harmonic generator | | 1 x 3/16 x 1 1/2 | | 1-2 | | 12 H.w./06 amp.d-c in (1- 7 H. w/.13 amp d-c in (2- |
| 284A | W-25311 D-157922 | | 175 ea.wdg. | 8.4 | 9.1 (2-3) | 2 3/8x2 13/16x7 1/16 | 5.5 | 1-2 | 8 | |
| | | | | 7.3 | (.074 amp.d-c) | | | 2-3 | | |
| 285A | Replaces D-156623 | | | Suppression Coil for buried wire | | 3 3/4x2 13/32x3 7/8 | | 1-283-4 | | |
| 287A | W-28305 | | .125 (1-2) .175 (3-4) | | | 5 29/32x6 11/16x7 29/32 | 39 | 1-283-4 | | |
| 290A | W-33923 | | 13.0 | 1.51 | 1.68 | Fig. 29A | 8.5 | 1-2 | | |
| 291A | W-33924 | | 14.8 | 2.41 | 2.66 | Fig. 29B | 10 | 1-2 | | |
| 292A | W-33925 | | 120 | 15.0 | 16.6 | Fig. 29C | 16 | 1-2 | | |
| 293A | | | 45 ea wdg | .412 | .438 | 1x1 1/2x3 1/2 | | 1-283-4 | | |
| | | | | (ea.wdg) | | | | | | |

RETARDATION COILS

| Code | Ref. No. | Tot. DC Resistance | | Tot. Inductance | | Size-Inches | Wt. lbs | Wdgs | Watts Safe Heat Dissipation | Superimposed DC Amps to Reduce Ind. 15% |
|------|----------------------|--------------------|----------|------------------------|---------|----------------------|---------|---------|-----------------------------|---|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 294A | | | .04 | .00058 | .00062 | Fig. 29D | | 1-2 | | |
| 295A | W-33816 | | 1.19 | | | 3 3/4x3 7/8x5 1/2 | 9 | 1-2-3 | | |
| | (Saturable inductor) | | 1.19 | | | | | 4-5-6 | | |
| | | | 4800 | | | | | 7-8 | | |
| 296A | | | 11.2 | .000398 | .000415 | 7/8" dia. x 1" long | .01 | 1-0 | 1/4 | |
| 296B | | | 51.5 | .0049 | .0056 | " | .02 | 1-0 | 1 | |
| 296C | | | 13. | .004 | .0044 | " | .04 | 1-0 | 2 | |
| 296D | | | 13 | .004 | .0044 | " | .04 | 1-0 | 2 | |
| 296E | | | 31 | .00202 | .00211 | " | .02 | 1-0 | 1/2 | |
| 297A | W-27625 | | 4.20 | .50 | | 3 1/8x2 1/2x3 3/16 | 3.63 | 1-2 | - | |
| | | | | (0.50 amp.d-c) | | | | | | |
| 297B | W-27626 | | 98 | 10 | | " | 3.63 | 1-2 | - | |
| | | | | (0.125 amp.d-c) | | | | | | |
| 298A | W-27627 | | 105 | 6.0 | | 2 1/8x2 1/2x3 3/16 | 2 | 1-283-4 | - | |
| | | | | (0.10 amp.d-c) | | | | | | |
| | | | | (windings in series) | | | | | | |
| 300A | | 5 (1-2) | 11 (1-7) | .95 | 1.10 | 3 7/16x4 5/8x5 3/8 | 10 | 1-7 | | |
| | | | | (1-4) at 60 150 Volts) | | | | | | |
| 301A | W-34404 | | 95 | 8.5 | | 4 5/8x4 7/16x4 3/8 | 11 | 1-2 | | |
| | | | | (0.280 amp.d-c) | | | | | | |
| 302A | | .02 (nom.) | | .00000039 (Nom.) | | 5/16 dia. x 3/4 long | | 1-2 | 1/4 | |
| | | | | | | less 1 oz | | 1-2 | | |
| 302B | | .04 (") | | .00000055 " " " | | | | 1-2 | | |
| | | | | | | | | | | |
| 302C | | .04 " " | | .00000060 " " " | | | | 1-2 | | |
| 302D | | .04 " " | | .00000062 " " " | | | | 1-2 | | |
| 302E | | .05 " " | | .00000066 " " " | | | | 1-2 | | |
| 302F | | .05 " " | | .00000070 " " " | | | | 1-2 | | |
| 302G | | .05 " " | | .00000073 " " " | | | | 1-2 | | |
| 302H | | .05 " " | | .00000077 " " " | | | | 1-2 | | |
| 302J | | .07 " " | | .00000081 " " " | | | | 1-2 | | |

RETARDATION COILS

| Code | Ref. No. | Tot. DC Resistance | | Tot. Inductance | | Size - Inches | Wt. Lbs. | Wdga | Watts Safe Heat Dissipation | Superimposed DC Amps. to Rating Ind. 100% |
|------|----------|--------------------|---------|-----------------|---------|---|-------------|---------------|-----------------------------|---|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 302K | | .09 (Nom.) | | .00000102 | | (Nom) 5/16 dia x 3/4 long | less than 1 | 2 | 1/4 | |
| 302L | | .10 " | | .00000107 | | " " " | " " " | 1-2 | 1/4 | |
| 302M | | .13 " | | .00000126 | | " " " | " " " | 1-2 | 1/4 | |
| 302N | | .25 " | | .00000190 | | " " " | " " " | 1-2 | 1/4 | |
| 302P | | .35 " | | .00000242 | | " " " | " " " | 1-2 | 1/4 | |
| 303A | | .02 " | | .00000011 | | " " " | " " " | 1-2 | 1/4 | |
| 303B | | .02 " | | .00000014 | | " " " | " " " | 1-2 | 1/4 | |
| 303C | | .02 " | | .00000015 | | " " " | " " " | 1-2 | 1/4 | |
| 303D | | .02 " | | .00000017 | | " " " | " " " | 1-2 | 1/4 | |
| 303E | | .03 " | | .00000023 | | " " " | " " " | 1-2 | 1/4 | |
| 303F | | .03 " | | .00000025 | | " " " | " " " | 1-2 | 1/4 | |
| 303G | | .03 " | | .00000031 | | " " " | " " " | 1-2 | 1/4 | |
| 303H | | .04 " | | .00000035 | | " " " | " " " | 1-2 | 1/4 | |
| 303J | | .05 " | | .00000070 | | " " " | " " " | 1-2 | 1/4 | |
| 304A | | .006 | | - | | (Adjustable) 1/2" dia. x 1-5/8 long | .02 | 1-2 | 1/4 | |
| 304B | N-171567 | 4.5 | | .000040 | | .000125 " 1/2" dia. x 1-5/8 long | .02 | 1-2 | 1/4 | |
| 304C | D-172624 | .80 | | .000012 | | .000036 (Adjustable) 1/2" dia. x 1-5/8 long | .02 | 1-2 | 1/4 | |
| 304D | D-172401 | .16 | | .000005 | | .000015 " " " | .02 | 1-2 | 1/4 | |
| 304E | | .23 | | .000007 | | .000021 " " " | .02 | 1-2 | 3/4 | |
| 305A | | 2 | | .00775 | | .00791 1x3/16x1 1/2 | | 1-2 | | |
| 307B | | 515 | | 10 | | Fig. 26 | .75 | 1-2 | 6 | .075 |
| 307C | | 153 | | 1.4 | | Fig. 26 | .75 | 1-2 | 6 | |
| 307D | | 4250 | | 65 | | Fig. 26 | .75 | 1-2 | 6 | |
| 307E | | 195.5 | | 236.5 | | 3 Fig. 26 | .75 | 1-5 with taps | 6 | |

RETARDATION COILS

| Code | Ref. No. | Tot. DC Resistance | | Tot. Inductance | | Size - Inches | Wt. Lbs. | Wdga | Watts Safe Heat Dissipation | Superimposed DC Amps. to Rating Ind. 100% |
|------|----------|--------------------|---------|-----------------|---------|---------------|----------|---------|-----------------------------|---|
| | | Minimum | Maximum | Minimum | Maximum | | | | | |
| 307F | | | 2650 | 40 | | Fig. 26 | .75 | 1-2 | 6 | .003 |
| 307G | | 342 | 416 | .55 | | Fig. 26 | .75 | 1-2&3-4 | 6 | .005 |
| 307H | | 149 | 181 | 1.4 | | Fig. 26 | .75 | 1-2 | 6 | .070 |
| 307J | | 152 | 186 | 1.3 | | Fig. 26 | .75 | 1-2&3-4 | 6 | |
| 307K | | 18 | 20 | .4 | | Fig. 26 | .75 | 1-2&3-4 | 6 | |
| 307L | | 40 | 50 | 2 | | Fig. 26 | .75 | 1-2 | 6 | .010 |
| 307M | | 340 | 400 | 7 | | Fig. 26 | .75 | 1-2 | 6 | .005 |
| 307N | | 370 | 450 | 5 | | Fig. 26 | .75 | 1-2&3-4 | 6 | .010 |
| 307P | | 153 | 187 | 2 | | Fig. 26 | .75 | 1-2&3-4 | 6 | .010 |
| 307R | | 35 | 44 | 1 | | Fig. 26 | .75 | 1-2&3-4 | 6 | .010 |
| 307S | | 190 | 210 | 2.1 | | Fig. 26 | .75 | 1-2&3-4 | 6 | .010 |
| 307T | | | 2660 | 40 | | Fig. 26 | .75 | 1-2 | 6 | .003 |
| 307U | | 900 | 1100 | 25 | | Fig. 26 | .75 | 1-2 | 6 | |
| 307W | | 4.5 | 5.5 | .25 | | Fig. 26 | .75 | 1-2 | 6 | |
| 307Y | | 715 | 785 | .75 | | Fig. 26 | .75 | 1-2 | 6 | .1 |

Transformers

Sheet 47

FIA Type Retardation Coils: Unpotted toroidal coils for use in potted assemblies, Approx. diam 1 3/8 Approx. height 3/4

| Code | D.C.Res. | | Total Inductance | | Term. | Code | D.C.Res. | | Total Inductance | | Term. |
|-------|----------|------|------------------|----------|----------|--------|----------|------|------------------|----------|----------|
| | Max. | Min. | Max. | (Henrys) | | | Max. | Min. | Max. | (Henrys) | |
| FIA1 | 0.8 | | .00643 | .00657 | 1-2 | FIA93 | 39 | | .1054 | .1076 | 1-2 |
| FIA2 | 4.1 | | .00389 | .03151 | 1-2 | FIA94 | 52 | | .1262 | .1288 | 1-2 |
| FIA3 | 1.85 | | .01466 | .01496 | 1-2 | FIA95 | 54 | | .1304 | .1330 | 1-2, 3-4 |
| FIA4 | 6.6 | | .04887 | .04965 | 1-2 | FIA97 | 77 | | .1588 | .1652 | 1-2 |
| FIA5 | 4.5 | | .03512 | .0358 | 1-2 | FIA99 | 78 | | .1754 | .1790 | 1-2, 3-4 |
| FIA6 | 3.1 | | .02365 | .02415 | 1-2 | FIA100 | 32 | | .1905 | .1983 | 1-2 |
| FIA7 | 6.8 | | .04719 | .04820 | 1-2 | FIA101 | 95 | | .2525 | .2573 | 1-2 |
| FIA8 | 1.6 | | .01153 | .01152 | 1-2 | FIA102 | 102 | | .3234 | .3263 | 1-2 |
| FIA9 | 3.3 | | .02342 | .02326 | 1-2 | FIA103 | 97 | | .3248 | .3286 | 1-2 |
| FIA10 | 12.5 | | .0940 | .1002 | 1-2 | FIA105 | 131 | | .805 | .837 | 1-2 |
| FIA11 | 3.0 | | .0198 | .0202 | 1-2 | FIA107 | 134 | | .873 | .907 | 1-2 |
| FIA12 | 1.4 | | .01119 | .01141 | 1-2 | FIA109 | 280 | | 1.54 | 1.57 | 1-2, 3-4 |
| FIA13 | 16 | | .1011 | .1033 | 1-2 | FIA110 | 202 | | 1.53 | 1.58 | 1-2 |
| FIA17 | 1.00 | | .00465 | .00477 | 1-2 | FIA111 | 330 | | 1.905 | 1.983 | 1-2 |
| FIA19 | 2.64 | | .0210 | .0215 | 1-2 | FIA112 | 480 | | 3.079 | 3.141 | 1-2, 3-4 |
| FIA20 | 1.28 | | .00792 | .00812 | 1-2 | FIA120 | 17.7 | | .1380 | .1408 | 1-2 |
| FIA21 | 2.57 | | .0203 | .0208 | 1-2 | FIA124 | 7.6 | | .0676 | .0690 | 1-2, 3-4 |
| FIA22 | 2.57 | | .02018 | .02052 | 1-2 | FIA127 | 6.7 | | .0549 | .0559 | 1-2, 3-4 |
| FIA24 | 3.78 | | .02003 | .02052 | 1-2 | FIA128 | 7.5 | | .0663 | .0677 | 1-2, 3-4 |
| FIA26 | 5.0 | | .01574 | .01606 | 1-2 | FIA129 | 11.3 | | .0972 | .0991 | 1-2, 3-4 |
| FIA33 | .60 | | .00178 | .00182 | 1-2 | FIA131 | 7.8 | | .0595 | .0709 | 1-2, 3-4 |
| FIA38 | 1.5 | | .00285 | .00393 | 1-2, 3-4 | FIA135 | 7.1 | | .0522 | .0593 | 1-2, 3-4 |
| FIA40 | 1.02 | | .00495 | .00505 | 1-2 | FIA138 | 7.2 | | .0621 | .0633 | 1-2, 3-4 |
| FIA41 | 1.02 | | .00505 | .00515 | 1-2 | FIA140 | 7.2 | | .0606 | .0618 | 1-2, 3-4 |
| FIA45 | 1.25 | | .00739 | .00753 | 1-2 | FIA146 | 3.6 | | .02584 | .02636 | 1-2 |
| FIA47 | 2.5 | | .00750 | .00765 | 1-2, 3-4 | FIA147 | 1.7 | | .01469 | .01499 | 1-2 |
| FIA48 | 1.3 | | .00777 | .00793 | 1-2 | FIA148 | 1.5 | | .00929 | .00947 | 1-2 |
| FIA49 | 2.6 | | .00815 | .00831 | 1-2, 3-4 | FIA153 | 1.1 | | .00565 | .00577 | 1-2 |
| FIA52 | 1.4 | | .00990 | .01010 | 1-2 | FIA155 | 2.5 | | .01400 | .01430 | 1-2, 3-4 |
| FIA55 | 1.6 | | .01183 | .01207 | 1-2 | FIA156 | 3.8 | | .02100 | .02144 | 1-2, 3-4 |
| FIA56 | 1.7 | | .01273 | .01299 | 1-2 | FIA158 | 5.4 | | .03043 | .03107 | 1-2, 3-4 |
| FIA59 | 6.4 | | .01732 | .01818 | 1-2 | FIA161 | 5.3 | | .03835 | .03912 | 1-2, 3-4 |
| FIA60 | 2.5 | | .01978 | .01916 | 1-2 | FIA162 | 5.9 | | .05739 | .05861 | 1-2, 3-4 |
| FIA63 | 2.7 | | .01956 | .1956 | 1-2 | FIA163 | 8.3 | | .06326 | .06454 | 1-2, 3-4 |
| FIA64 | 2.58 | | .02079 | .02121 | 1-2 | FIA164 | 13.2 | | .09554 | .09746 | 1-2, 3-4 |
| FIA69 | 8.6 | | .0317 | .0324 | 1-2 | FIA165 | 16.2 | | .0932 | .0932 | 1-2, 3-4 |
| FIA70 | 3.9 | | .03198 | .03262 | 1-2 | FIA167 | 11.8 | | .1029 | .1051 | 1-2, 3-4 |

(Cont'd)

Sheet 48

FIA Type Retardation Coils: Unpotted toroidal coils for use in potted assemblies, Approx. diam 1 3/8 Approx. height 3/4

| Code | D.C.Res. | | Tot. Inductance | | Term. | Code | D.C.Res. | | Total Inductance | | Term. |
|-------|----------|------|-----------------|----------|-------|--------|----------|------|------------------|----------|----------|
| | Max. | Min. | Max. | (Henrys) | | | Max. | Min. | Max. | (Henrys) | |
| FIA72 | 4.14 | | .03465 | .03535 | 1-2 | FIA168 | 16.9 | | .1063 | .1085 | 1-2, 3-4 |
| FIA76 | 16 | | .0442 | .0452 | 1-2 | FIA169 | 14.4 | | .1068 | .1090 | 1-2, 3-4 |
| FIA81 | 15.6 | | .0589 | .0601 | 1-2 | FIA170 | 14.9 | | .1109 | .1131 | 1-2, 3-4 |
| FIA82 | 19 | | .0632 | .0645 | 1-2 | FIA171 | 15.0 | | .1135 | .1157 | 1-2, 3-4 |
| FIA84 | 8.6 | | .0676 | .0690 | 1-2 | FIA172 | 18.6 | | .1152 | .1176 | 1-2 |
| FIA86 | 51.6 | | .2284 | .2330 | 1-2 | FIA173 | 15.1 | | .1155 | .1178 | 1-2, 3-4 |
| FIA87 | 28.2 | | .0836 | .0854 | 1-2 | FIA174 | 15.8 | | .1259 | .1287 | 1-2, 3-4 |
| | | | | | | FIA176 | 41 | | .3151 | .3215 | 1-2, 3-4 |
| | | | | | | FIA182 | 9.48 | | .0864 | .0916 | 1-2, 3-4 |

FIA Type Retardation Coils: Unpotted toroidal coils for use in potted assemblies, Approx. diam 1 3/4 x 3/4 height

| Code | D.C.Res. | | Total Inductance | | Term. |
|--------|----------|------|------------------|----------|----------|
| | Max. | Min. | Max. | (Henrys) | |
| FIA183 | 30 | | .2350 | .2398 | 1-2, 3-4 |
| FIA184 | 75 | | .5346 | .5454 | " |
| FIA185 | 12 | | .0873 | .0891 | " |
| FIA186 | 7 | | .0492 | .0502 | " |
| FIA187 | 18.2 | | .1304 | .1330 | " |
| FIA188 | 22 | | .1818 | .1854 | " |
| FIA189 | 23.4 | | .2059 | .2101 | " |

CHOKES COILS

| Code | Ref. No. | Tot. DC Resistance | | Total Inductance | | Size - Inches | Wt. Lbs. | Watts Safe Dissipation | Superimposed D.C. Amps Rated Value |
|------|----------|--------------------|---------|------------------|---------|------------------------|----------|------------------------|------------------------------------|
| | | Minimum | Maximum | Minimum | Maximum | | | | |
| 7-A | D-80569 | - | .016 | .0032 | - | 5 1/4x6 11/32x1 3/4 | 50 | 15 | 25 |
| 8-A | D-80570 | - | .008 | .0020 | - | 7 1/2x6 1/4 x 16 | 90 | 35 | 50 |
| 11-A | D-80573 | - | .0013 | .0011 | - | 12 1/4x16 5/8x30 3/8 | 650 | 150 | 300 |
| 12-A | D-80574 | - | .0010 | .0011 | - | 18 1/2x 23 1/8x36 1/2 | 1200 | 190 | 400 |
| 13-A | D-80575 | - | .00067 | .0010 | - | 18 1/2x 23 1/8x 40 1/2 | 2000 | 250 | 600 |
| 14-A | D-80576 | - | .00050 | .0010 | - | 25 x 26 x 43 5/8 | 3000 | 300 | 800 |
| 15-A | D-80577 | - | .00040 | .0011 | - | 36 x 38 x 49 | 4600 | 440 | 1000 |

AUTO TRANSFORMERS

| Code | Ref. No. | Impedance Ratio | Max. DC Resistance | | Min. L (H) | Frequency Range (Cycles) | Size-In. | Wt. Lbs. | Low Wdgs | High Wdgs | Remarks |
|------|--|-----------------|--------------------|-----------|-------------------------|-------------------------------|----------|------------|----------------------|--|---------|
| | | | Low Wdgs | High Wdgs | | | | | | | |
| 4-A | - | 2:1 | 120 | 142 | High Wdgs -4 | Voice Fig.13 | 4.5 | 1-2 | 1-2,3-4 | | |
| 5-B | - | 500:- | - | 80 | 1-2 & 6 | 100-5000 Fig.13 | 4.5 | - | 1-12 | Terminals 2 to 12 in 2 db steps below terminal 1 | |
| 6-A | - | 1.7:1 (turns) | - | 80 | - | 16 2/3-20 4-1/2x4x2-1/2 | 3.5 | 1-2 | 1-3 | | |
| 7-A | W-6721 | 500:16 | - | 12 | 1-13-9.0 | 60-5000 Fig.13 | 4.5 | 2-13 | 1-13 | Terminals 3 to 12 in 2 db steps below terminal 2 | |
| 9-A | W-8138 | 500:16 | - | 12.0 | 1-13-9.0 | 60-5000 4x2-11/16x4-7/8 | 4.5 | 2-13 | 1-13 | Terminals 3 to 12 in 2 db steps below terminal 2 | |
| 10-A | W-8118 | 605:380 | 43.0 | 53.0 | 1-8 -17 | 200-11000 4-1/8x2-5/8x4-5/8 | 4.5 | 3-4 7-8 | 1-2,3-4 5-6,7-8 | | |
| 12-A | W-8379 | 1.077:1 | 12 | 350 | 1-2,3-4,7-8 and 5-6-450 | 35-8000 4-3/16x2-9/16x4-17/32 | 4.5 | 1-2 | 3-4,7-8 | | |
| 14-A | (Phantom Group Auto Transformer to Connect H-178-63 Cable to 104 MLI) | | | | | | | | | | |
| 14-B | (Phantom Group Auto Tr. ns. to Connect. H-88-50 Cable to 104 MLI Open) | | | | | | | | | | |
| 15-A | W-21638 | 2.15:1 | 26.7 | 122 | 1.5 | Voice, 135 & DC Teleg. Fig.12 | 28 | (2-1)(6-5) | (4-3)(2-1)(6-5)(8-7) | Used in side circuit of 14A & 16A Auto Trans. | |
| 15-B | W-21639 | 2:1 | 70 | 112 | 1.5 | Voice, 135 & DC Teleg. Fig.12 | 28 | (9-10) | (1-2)(9-10)(3-4) | Used in phant circuit of 14 & 16A Auto Tr | |

AUTO TRANSFORMERS

| Code | Ref.No. | Ratio | Max. DC Resistance | | Min. L (H) | Frequency Range (Cycles) | Size-In. | Wt. Lbs | Low Edge | High Wire | Remarks | |
|------|--|--|--------------------|-----------|------------|-------------------------------------|----------------------|------------|-----------------|------------|--|-----------------|
| | | | Low Wdg. | High Wdg. | | | | | | | | |
| 15-C | W-23361 | 1.6:1 | 11 | 184 | 2.0 | Voice 135 Fig.12 & DC Teleg. | | (2-1)(6-5) | (8-3)(2-1)(6-5) | (8-7) | Used in side circuit of 14B & 16B auto trans. | |
| 15D | W-23362 | 1.7:1 | 47 | 125 | 1.75 | " Fig.12 | (9-10) | | (1-2)(9-10) | (5-6)(3-4) | (7-5) Used in phantom circuit of 14B & 16B auto trans. | |
| 16-A | Elec. same as 14-A except designed for outside mtg. | | | | | Voice | 26-5/16x6 5/8x9 | 65 | | | | |
| 16-B | Elect. same as 14-B except designed for outside mtg. | | | | | Voice | " | 65 | | | | |
| 17-A | | 1.77:1 | | | | Fig.11 | 1.75 | | | | | |
| 18-A | W-22589 | 500:4 | - | 27.6 | 1-15 & 4.5 | 50-10000 Fig.18-A | 8.0 | | 1-15 | | Operates into various loud speaker impedances | |
| 19-A | W-22590 | 500:4 | - | 13.7 | 1-15 - 5.4 | 50-10000 5-5/8x1 5/8x 7-3/16 | 27.0 | 2-15 | 1-15 | | Operates into various loud speaker impedances | |
| 21-A | W-23521 | Mod. 300:75 | - | 11.7 | 1-7 - 6.7 | 50-8000 Fig.2B | 2.0 | | 1-7 | | | |
| 22-A | W-21736 | 400:330 | | 8.0 | | 64000-120000 Fig.2B | 1.75 | 2-3 | 1-4 | | | |
| 23-A | W-25759 | 4.65:1 | 30 | 65 | .7 | 200-14,5000 1 27/32x2 3/4 x 4 23/32 | 2.5 | (2-3)(4-5) | (1-3)(4-6) | | | |
| 24-A | W-26056 | Consists of 2-23A auto-trans. with associated condensers | | | | | 7 5/8x3 15/16x9 3/16 | 15.0 | | | | For outdoor use |
| 25-A | W-34563 | | | 565 | 1-12 - 116 | 50-15000 1 11/16x1 11/16 x 3 9/16 | 1.25 | | 1-12 | | Control power into loud speakers | |
| 26-A | W-34564 | | | 218 | 1-12 - 75 | 50:15000 2 7/8x2 7/8x3 7/8 | 2.5 | | 1-2 | | Control power into loud speakers | |
| 27-A | W-34565 | | | 52 | 1-12 - 35 | 50:15000 3x3 31/32x5 19/32 | 7 | | 1-2 | | Control power into loud speakers | |

TRANSFORMERS

| Code | Ref.No. | Volts | Pri. Wdg. | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|-------|---------|-------|--|--|---------------------|-----------------|------------------|---------------|---------|---|
| 319A | W-8670 | 50 | 1-2 1-3 1-4 | 107.5 115 122.5 | 5-7 | 2.15 | 8 | Fig. 21B | 3.25 | 6 is center tap |
| 319 C | W 21249 | | 1-2 1-3 1-4 (1-2)-(5-6) (1-3)-(5-7) (1-4)-(5-8) | 107.5 115.0 122.5 215 235 245 | 9-11 | 2.1 | 8 | Fig. 21B | 3.25 | 10 is center tap |
| 319 D | W 25623 | 50-60 | 1-2 1-3 | 112.5 117.5 | 4-6 7-8 | 4.4 5 | .0177 2 | Fig. 2B | 3.25 | 5 is center tap 10 and 11 are taps in tap 9-12 |
| 321 A | W 9021 | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6-7 | 10 | .70 | Fig. 2B | 2.5 | 6 is center tap |
| 321 D | W 9016 | 50-60 | 1-2 | 100 | 3-4-5 | 10 | 1.05 | Fig. 2B | 2.5 | 4 is center tap |
| 323 A | W 9424 | 50-65 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 8-9 | 2 5 | 3.2 2 | Fig. 2C | 2.5 | 6 is center tap |
| 338 B | W 9485 | 50-65 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-7 | 282 | .0175 | Fig 2C | 2.5 | 6 is center tap |
| 341 A | W 20265 | 3.5 | 2,5 | 120-225 | 4-7 | 240-450 | | 6 x 5 x 5 5/8 | 20 | Wdg. balanced for use on telephone circuits 8 & 11 are center taps |
| 344 A | W 9939 | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6 7-9 10-12 | 5 2 350 | 2 2 .005 | Fig. 21A | 2.5 | |
| 344 B | W 22353 | 50-60 | 1-2 | 115 | 6-7 8-10 3-5 | 5 6.3 374 | 2 1.5 .023 | Fig. 21A | 3.5 | 4 & 9 are center taps |

TRANSFORMERS

| Code | Ref. No. | Freq. Range | | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|-------|----------|-------------|--|--------------------------|------------------------------|------------------------------|---------------------|--------------------|---------|--|
| | | Coils | Pri. Wdg. | | | | | | | |
| 344C | W-25898 | 50-60 | Red-Red Wh | 115 | 3-4 | 115 | .051 | Fig. 21A | 3 | 6 is center tap |
| 344D | W 27158 | 50-60 | 1-2 | 105-125 | 3-4 | 6.3 | 5.4 | Fig. 21A | 3.5 | |
| 344E | W 34280 | 50-60 | Red-Red Wh. Red - Blue Red-Blue Wh | 210 230 250 | 5-6 | 10 10 6.3 | .5 .5 4 | Fig. 21A | 4 | |
| 345A | W 20734 | 50-60 | AC-110 AC-115 AC-120 | 110 115 120 | 1-2 1-3 4-5 | 32.5 36.5 18 | .475 .60 1.00 | 3-3/4x3-1/4x4-3/4 | 5.9 | |
| 345 B | W 21261 | 50-60 | A-B | 105-125 | 1-6 | 32.4-41.6 | 1.35 | 3 3/4 x 3 x 4 1/4 | 5.75 | 2,3,4 and 5 are taps in wdg 1-6. |
| 345 C | | 50-60 | A-B | 190-250 | 1-6 | 32.4-41.6 | 1.35 | 3 3/4 x 3 x 4 1/4 | 5.75 | (2,3,4 & 5 are taps in wdg. 1-6) |
| 349 A | W 21095 | 50-60 | A-C B-C | 115 115 | 1-16 1-16 | 21.4 28.4 | 8 8 | 6 x 4 1/4 x 6 5/16 | 12 | 2 to 15 are taps in wdg 1-16 |
| 349 B | W 21094 | 50-60 | A-200 A-230 B-200 B-230 | 200 230 200 230 | 1-16 1-16 1-16 1-16 | 21.4 21.4 28.4 28.4 | 8 8 | 6 x 4 1/4 x 6 5/16 | 12 | 2 to 15 are taps in wdg 1-16 |
| 351 A | W 21074 | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-8 9-10 | 98 10 | .024 | Fig. 21A | 3.25 | 6 & 7 are taps in wdg 5-8 Electrostatic shield |
| 351 B | W 22176 | 50-60 | L-107.5 L-115 L-122.5 | 107.5 115.0 122.5 | 1-3 | 2.3 | 1.65 | Fig. 21A | 3.25 | 2 is center tap |
| | | | H-107.5 H-115.0 H-122.5 | 107.5 115.0 122.5 | 1-3 | 2.225 | 1.65 | | | |

TRANSFORMERS

| Code | Ref. No. | Freq. Ranges | | Volts | Sec. Wdg | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|-------|----------|--------------|---|---------------------------------|---------------------------------------|---------------------------|-------------------------|---|---------|---|
| | | Coils | Pri. Wdg. | | | | | | | |
| 352 B | W 21445 | 60 | 1-2 1-3 | 110 120 | 4-5 6-8 | 5 134 | 5 1.44 | Fig. 18A | 8.5 | 7 is center tap |
| 352 C | W 21580 | 60 | 1-2 1-3 | 110 120 | 4-6 12-14 7-8 | 10 5 5 | 1.3 2.4 2 | Fig. 18A | 8.5 | 5,10 & 13 are center taps |
| 352 E | | 50-60 | 1-2 | 220 | 9-11 | 1380 | .106 | Fig. 18A | 8.5 | |
| 352 F | | 50-60 | 1-2 | 220 | 3-4 | 110 | .455 | Fig. 18 A except with terminal bushings | 8.5 | |
| 352 G | W 21767 | 60 | 1-2 1-3 | 110 120 | 4-5 6-8 9-11 12-13 | 10.1 5.1 650 5.1 | 2.6 5 .071 2 | Fig. 18 A | 8.5 | 7 & 10 are center taps |
| 352 H | | 6# | 1-2 1-3 | 110 120 | 4-5 6-8 | 5.1 670 | 3 .21 | Fig. 18A | 8.5 | 7 is center tap |
| 352 J | W 21769 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-9 10-11 12-14 | 2.5 6.3 5.1 700 | 2.5 2 2 .090 | Fig. 18A | 8.5 | 5,8 & 13 are center taps |
| 352 N | | 50-60 | 1-2 1-3 | 110 120 | 4-5 | 2.65 | 30 | Fig. 18A except with terminal bushings | 8.5 | 5 is center tap |
| 352 N | W 22071 | 50-60 | 1-2 | 110 | 4-5 7-8 9-13 9-12 | 620 5 10 6.3 | .118 2 3.5 3.5 | Fig. 18A | 8.5 | 5,10 & 11 are center taps |
| 352 R | W 22662 | 50-60 | (1-2) (1-3) (1-4) (1-5) (1-6) | 105 110 115 120 125 | (7-8) (9-10) (11-15) (12-14) | 42 5 170 24 | .076 1 1.00 1 | Fig. 18A | 8.5 | 12 is CT of Wdg, 11-13 & 1 end of wdg (12-14) |

TRANSFORMERS

| Code | Ref. No | Freq. Range Cycles | Pri. Wdg. | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|--------|---------|-----------------------|--|--------------------------|-----------------------------|--------------------------|--------------------------|--|---------|---|
| 352S | | 50-60 | (6-105) (6-115) (6-125) | 105 115 125 | (1-3) (4-5) | 2.56 5 | 14 .25 | Fig. 18A | 8.5 | 2 is center tap Electrostatic Shield |
| 352T | W 21950 | 50-60 | (6-190) (6-210) (6-230) (6-250) | 190 210 230 250 | (1-3) (4-5) | 2.56 5 | 14 .25 | Fig. 18A | 8.5 | 2 is center tap Electrostatic Shield |
| 352U | W 21920 | 50-60 | (7-190) (7-210) (7-230) (7-250) | 190 210 230 250 | (1-3) (4-6) (4-5) | 5.1 8.5 5 | 23 .10 .10 | Fig. 18A | 8.5 | 2 is center tap Electrostatic Shield |
| 352W | | 50-60 | (7-105) (7-115) (7-125) | 110 115 125 | (1-3) (4-5) (4-5) | 5.06 8.5 5 | 23 .10 .10 | Fig. 18A | 8.5 | 2 is center tap Electrostatic Shield |
| 352Y | W 22786 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-9 10-11 | 10 10 15 | 3.2 3.2 | Fig. 18A except with terminal hookings | 8.5 | 5 & 8 are center taps |
| 352 AA | W 23041 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-8 9-13 10-12 | 6.8 5.1 820 670 | 4.2 3 .135 .171 | Fig. 18A Fig. 18A | 8.5 | 5 & 11 are center taps |
| 352AB | W 22873 | 60 | 1-2 1-3 | 110 120 | 4-6 7-8 9-10 11-13 | 5.1 5.1 6.8 310 | 6 2 6.8 .16 | Fig. 18A | 8.5 | 5 & 12 are center taps |
| 352AC | W 22711 | 50-60 | 1-3 | 115 | 4-6 7-8 9-10 11-12 | 750 2.5 2.5 5 | .072 2 2 2 | Fig. 18A | 8.5 | 5 is center tap Electrostatic Shield |
| 352AD | W 22712 | 50-60 | 1-2 1-3 1-4 | 107.5 115.0 122.5 | 5-6 | 115 | .7 | Fig. 18A | 8.5 | |

TRANSFORMERS

| Code | Ref. No | Freq. Range Cycles | Pri. Wdg. | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|--------|---------|-----------------------|--|------------------------------|------------------------------|---------------------------|--------------------------|-------------|---------|---|
| 352AE | W 23707 | 50-60 | 1-2 | 210 | 3-5 6-7 8-10 11-13 | 5.06 10 140 2.56 | 1.5 .32 .05 14 | Fig. 18A | 8.5 | 4, 9 & 12 are center taps Electrostatic Shield |
| 352AF | | 50-60 | 1-2 | 115 | 3-5 6-7 8-10 11-13 | 5.06 10 140 2.56 | 1.5 .32 .05 14 | Fig. 18A | 8.5 | 4, 9 & 12 are center taps Electrostatic Shield |
| 352 AG | W 24279 | 50-60 | 1-2 | 210 | 3-5 6-7 8-10 11-13 | 5.06 10 140 5.06 | 1.5 .32 .05 23 | Fig. 18A | 8.5 | 4, 9 & 12 are center taps, Electrostatic Shield |
| 352 AH | W 22767 | 50-60 | 1-2 1-3 1-4 1-5 | 100 107.5 115 122.5 | 6-7 8-9 10-12 13-14 | 24 5 474 45 | 1.6 2 4.025 .35 | Fig. 18A | 8.5 | 11 is center tap |
| 352 AK | W 25673 | 50-60 | (1, 3-2-5) (1-2) (3-5) (1-2) (3-4) | 115 230 200 | 6-7 8-9 13-14 10-12 | 5 5 10 900 | 1.2 2 .3 .071 | Fig. 18A | 8.5 | 11 is center tap |
| 352 AL | W 25923 | 60 | 4-210 4-230 4-250 | 210 230 250 | 1-3 | 2.56 | 62 | Fig. 18A | 9.5 | 2 is center tap Electrostatic Shield |
| 352 AM | W 26644 | 60 | 1-2 1-3 1-4 | 107.5 115 122.5 | 5-7 8-10 11-12 | 40 6.5 5.2 | .275 9.6 6 | Fig. 18A | 8 | 9 is center tap. 6 is tap at approx 35 V from 5 |
| 352 AN | W 27570 | 50-60 | Gr-Gr Wh Gr-Gr Br | 110 120 | 1-2 3-4 | 23 55 | 6.25 .218 | Fig. 18A | 8.5 | |
| | | | | | or | | | | | |
| | | | | | 1-2 3-4 | 23 55 | 3.4 .875 | | | |

TRANSFORMERS

| Code | Ref. No. | Freq. Range | | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|-------|----------|-------------|--------------------------------------|--------------------------|--|---|---|--|---------|---|
| | | Cycles | Pri. Wdg. | | | | | | | |
| 352AP | W 27996 | 50-60 | 1-2 1-3 | 110 120 | 4-5 6-7 8-10 11-12 13-14 15-16 | 5 5 900 45 10 24 | 1.2 2.0 .077 .20 .32 .20 | Fig.18A | 8.5 | 9 is center tap Electrostatic Sh |
| 352AR | W 31449 | 60 | 1-2 1-3 1-4 | 105 115 125 | 5-7 8-9 10-12 13-14 15-16 | 630 5 2.5 6.4 10.1 | .143 2 2.5 4 2 | Fig.18A | 8 | 6 & 11 are center Electrostatic Sh |
| 353A | | 50-60 | 1-2 | 220 | 3-4 5-6 7-8 9-10 11-12 13-14 15-16 | 10.3 12.8 5.1 10.2 10.2 2.1 5.1 | 20 2.7 2 10 .35 3.5 3 | Fig.23A | 27 | T is the center winding 1-2 |
| 353B | | 50-60 | 106-D 115-D 125-D | 105 115 125 | 5-7 | 180 | 2.1 | Fig.23A | 27 | Taps A, B, C, D, on wdg to lower sec in steps of approx volts, Electrostatic Shield |
| 353C | W 22074 | 50-60 | 190-D 210-D 230-D 250-D | 190 210 230 250 | 5-7 | 180 | 2.1 | Fig.23A | 27 | Taps A, B, C, D, on wdg to lower sec. v. in steps of approx Electrostatic Shield |
| 353D | W 22785 | 50-60 | 1-2 1-3 | 110 120 | 4-6 | 2650 | .124 | Fig.23A except with terminal bushings | 27 | 5 is center tap |
| 353E | W 22837 | 50-60 | 11-190 11-210 11-230 11-250 | 190 210 230 250 | 1-6 7-8 9-10 | 210 2.56 5 | 1.3 7 .25 | Fig.23A | 27 | 2, 3, 4, & 5 are tap winding 1-6, Elec static Shield |

TRANSFORMERS

| Code | Ref. No. | Freq. Range | | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|------|--------------------|-------------|--|--------------------------|-------------------|--------------------|-----------------|----------------------|---------|--|
| | | Cycles | Pri. Wdg. | | | | | | | |
| 353F | W22368 | 50-60 | AC-190 AC-210 AC-230 AC-250 | 190 210 230 250 | D-4 5-6 7-8 | 165 2.56 5.1 | 1.41 7 25 | Fig.23A | 27 | A, B, C, 1, 2 & 3 are taps in wdg (D-4). Electrostatic Shield |
| 353G | W26180 | 60 | 1-2 1-3 1-4 | 107.5 115 122.5 | 5-9 | 1010 | .35 | Fig.23A | 27 | 7 is center tap, 6 & 8 are taps in (5-9) for delivering 0.24 amp at 950 volts |
| 354A | | 50-60 | 1-2 | 220 | 3-5 | 3160 | .85 | 12 1/4x9x8-3/4 | 115 | 4 is center tap |
| 354B | W 22189 | 50-60 | AC-190 AC-210 AC-230 AC-250 | 190 210 230 250 | 1-3 | 460 | 7.2 | 12 1/4x9x8 3/4 | 115 | 2 is center tap Electrostatic Shield |
| 354C | | 50-60 | AC-190 AC-210 AC-230 AC-250 | 190 210 230 250 | 1-3 | 460 | 7.2 | 11 29/32x9x9 3/16 | 120 | 2 is center tap |
| 354D | W31010 | 50-60 | AC-210 AC-230 AC-250 | 210 230 250 | 1-5 | 420 | 7.2 | 11 29/32x9x9 3/16 | 130 | 3 is center tap, 2 & 4 are taps in (1-5) to pro- vide an alternate voltage of 360 volts at 7.2 amp. |
| 354E | W31498 | 60 | 4-8 | 250 | 1-3 | 460 | 7.3 | 11 29/32x9x9 3/16 | 120 | (2 is center tap, 5, 6, 7 are taps Electrostatic Shield) |
| 355A | W 21578 | 60 | (1-2) | 4000 | (3-4) (5-6) | 4000 4000 | 14 | 13 3/8x10 5/8x17 1/2 | 140 | Neutralizing Trans. for outdoor mounting |
| 355A | D97496 | 60 | (1-2) | 4000 | (3-4) (5-6) | 4000 4000 | 14 | 14 x 9 x 8 1/2 | 90 | Neutralizing Trans. for outdoor mounting |
| 355B | W 21911 D 98635 | 50-60 | 1-2 1-3 1-4 | 100 173 200 | 5-7 | 22 | 70 | 10 7/32x9 x 8 3/4 | 75 | 6 is center tap |
| 355B | W 22012 | 50-60 | (D-190) (D-210) (D-230) (D-250) | 190 210 230 250 | (5-7) | 175 | 9 | 10 7/32x9 x 8 3/4 | 75 | 6 is center tap A, B, C and D are primary adjusting taps Electrostatic Shield |

TRANSFORMERS

| Code | Ref.No. | Freq. Range Cycles | Pri. Wdg. | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|-------|---------|-----------------------|---|--|-------------------------------|-----------------------------|--------------------------|-------------------|---------|--|
| 358 C | | 50-60 | (D-105) (D-115) (D-125) | 105 115 125 | (5-7) | 175 | 9 | 10 7/32x9x8 3/4 | 75 | 6 is center tap A, B, C and D are primary adjusting taps. Electrostatic Shield |
| 358F | | 60 | 5-210 5-230 5-250 5-250 4-210 4-230 4-250 | 320 350 380 | 1-3 | 92 | 21 | 8 7/8x9x93/16 | 80 | (2 is center tap) |
| 358G | W 33707 | 60 | 2-3 1-3 2-4 1-4 2-5 1-5 | 200 210 220 230 240 250 | 6-7 8-15 14-19 20-21 | 700 700 700 700 | .50 .50 .50 .50 | 9x10 9/32x9 13/32 | 75 | These wdg may be connected SA to deliver approx 2800 V. by connecting 7 to 8, 13 to 14 and 19 to 20. 9, 10, 11, 12 are taps 15, 16, 17, 18 are taps. |
| 359A | W 22008 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-8 9-11 12-14 | 10 5 985 5 | 1.2 2 .130 2.4 | Fig. 18B | 12 | 5, 10 & 13 are center taps |
| 359B | W 22009 | 50-60 | 1-2 1-3 | 110 120 | 4-5 6-10 7-9 | 5 156 140 | 5 1.4 1.4 | Fig. 18B | 12 | 8 is center tap |
| 359G | W 22207 | 50-60 | AC-190 AC-210 AC-230 AC-250 | 190 210 230 250 | D-4 5-6 7-8 | 123 2.53 5.15 | 1.14 7 .25 | Fig. 18B | 12 | Wdg. (D-4) tapped to provide voltages from 84.5 to 123 V. in steps of approx. 2.6 V., Electrostatic Shield |
| 359D | W 22091 | 50-60 | 1-2 | 210 | 3-5 6-7 8-10 11-13 | 5.06 2.56 140 5.06 | 1.5 1.6 .05 25 | Fig. 18B | 12 | (4, 9 and 12 are center taps) Electrostatic Shield |
| 359E | W 22828 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-8 9-11 12-14 | 10 5 1110 5 | 2 2 .106 2.4 | Fig. 18B | 12 | 5, 10 & 13 are center t |

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| Code | Ref.No. | Range (F _{req}) Cycles | Pri. Wdg. | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|------|--------------------|-------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------------|---------------------------------|-------------|---------|---|
| 359F | W 22677 | 50-60 | 1-2 1-3 | 110 120 | 4-5 6-7 8-9 10-11 12-13 | 530 150 5 2.5 6.3 | .115 .100 2 1.4 2.8 | Fig. 18B | 12 | Electrostatic shield which is connected to center taps of wdg (4-10-11) & (12-13) |
| 359G | W 22875 | 60 | 1-2 1-3 | 110 120 | 4-6 | 1000 | .3 | Fig. 18B | 12 | 5 is center tap |
| 359H | W 23061 | 50-60 | 1-2 1-3 1-4 | 105 115 125 | 5-7 8-9 10-11 12-14 13-14 | 950 5 5 15.4 10 | .050 2 1.2 3.9 3.9 | Fig. 18B | 12 | 6 is center tap Electrostatic Shield |
| 359J | W 24043 | 50-60 | 1-2 1-3 1-4 | 105 115 125 | 5-7 8-9 10-11 12-14 | 1100 5 6.3 10 | .149 3 1.8 .32 | Fig. 18B | 12 | 6 & 13 are center taps Electrostatic shield connected to terminal 13. |
| 359K | W 23899 W 24957 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-11 8-10 12-13 | 1210 10 6.3 5 | .124 1.2 3.2 2 | Fig. 18B | 12 | 5&9 are center taps |
| 359M | W 26645 | 60 | 1-2 1-3 1-4 | 105 115 125 | 6-7 8-9 13-14 15-17 | 2.5 6.3 5 6.5 | 2.5 1.5 3 10 | Fig. 18B | 12.5 | 11 & 16 are center taps Electrostatic Shield |
| 359L | W 24218 W 24957 | 60 | 1-2 | 117.5 | 3-5 6-8 9-10 | 1125 6.2 5 | .178 4.2 3 | Fig. 18B | 12 | 4 & 7 are center taps |
| 359N | W 26956 | 50-60 | 1-2 1-3 | 110 120 | 4-5 6-8 9-11 12-13 | 10 5 1000 5 | 1.3 2.4 .180 3 | Fig. 18B | 12.5 | 12&17 & 10 are center taps Electrostatic Shield |
| 360A | W 22089 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-8 9-11 | 6.3 5 630 | 2.6 2 .105 | Fig. 24 | 6 | 5 & 10 are center taps |

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TRANSFORMERS

| Code | Ref. No. | Freq. Range | | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs. | Remarks |
|------|----------|-------------|---|--------------------------|--------------------------------|-------------------|----------------------|-------------|----------|---|
| | | Cycles | Pri. Wdg. | | | | | | | |
| 360C | W 22908 | 50-60 | 1-2 1-3 | 110 120 | 4-6 7-8 | 10 5 | 3.2 2 | Fig. 24 | 6 | 5 & 10 are center taps |
| 360D | W 24378 | 60 | 1-2 | 117.5 | 3-5 6-8 | 530 565 5.8 | .047 .075 9 | Fig. 24 | 6 | 4 & 7 are center taps |
| 360E | W 25670 | 50-60 | 1-2 1-3 | 110 120 | Blue Wh - Gr Wh 7-8 | 5.9 5 | 8 2 | Fig. 24 | 6 | Green - yellow are center taps 10 & 12 are taps |
| 360F | W 28162 | 60 | 1-2 1-3 1-4 1-5 | 110 120 208 250 | Gr Wh - Br Wh 9-10 11-13 | 6.3 5 574 | 3.2 2 .060 | Fig. 24 | 6 | Brown & yellow white a center taps |
| 360G | W 28437 | 50-60 | 7-120 | 120 | 1-3 5-6 | 5.1 8.5 | 7 .1 | Fig. 24 | 6 | 2 is center tap 5 is a tap in 4-6 |
| 360H | | 50-60 | 7-210 | 210 | 1-3 4-6 | 5.1 8.5 | 7 .1 | Fig. 24 | 6 | 2 is center tap 5 is a tap in 4-6 |
| 360J | W 33623 | 60 50-60 | 1-2 1-4 | 115 230 | 5-6 7-8 9-10 | 6.4 5.1 6.4 | 3.2 2 3 | Fig. 24 | 6 | Electrostatic Shield |
| 361B | W 23831 | 60 | 1-2 | 75 | 3-5 | 158 | .0016 | Fig. 7 | 1 | 4 is center tap |
| 361C | W 23726 | Mod. 60 | 1-2 | 115 | 3-4 5-6 | 11 24 | .100 .135 .040 | Fig. 7 | 1 | |
| 361D | W 28435 | 50-60 | Red-Red Wh Blue-Blue Wh | 105 105 | Gr.-Gr. Wh | 160 | .040 | Fig. 7 | 1 | |
| 361E | W 31497 | 50-60 | Red-Blue Wh Red-Red Wh Red-Blue Wh Red-Blue Wh | 210 105 115 125 | Gr.-Gr. Wh Br-Br Wh. | 10 20 | .35 .25 | Fig. 7 | 1.5 | Electrostatic Shield |

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TRANSFORMERS

| Code | Ref. No. | Freq. Range | | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs. | Remarks |
|------|--------------------|-----------------|--|--------------------------|----------------------------|----------|------------|-------------|----------|--|
| | | Cycles | Pri. Wdg. | | | | | | | |
| 361F | W 31508 | 50-60 | Red-Red Wh. Red-Blue Red-Blue Wh | 210 230 250 | Green-Gr. Wh. Br-Br Wh. | 10 20 | .35 .25 | Fig. 7 | 1.5 | |
| 362A | | 50-60 | AC-105 AC-115 AC-125 | 105 115 125 | 1-3 | 460 | 1.45 | Fig. 23B | 36 | 2 is center tap Electrostatic Shield |
| 362B | | 50-60 | AC-190 AC-210 AC-230 AC-250 | 190 210 230 250 | 1-3 | 460 | 1.45 | Fig. 23B | 36 | 2 is center tap Electrostatic Shield |
| 362C | W 22753 | 60 | 1-2 | 2000 | 3-4 5-6 | 2000 | | Fig. 23B | 35 | |
| 363A | D 98172 W 24071 | Mod. Mod. 60 | D-105 D-115 D-125 | 105 115 125 | 5-7 | 176 | 7.1 | Fig. 25 | 47.25 | 6 is center tap Electrostatic Shield |
| 363B | | 60 | D-190 D-210 D-230 D-250 | 190 210 230 250 | 5-7 | 176 | 7.1 | Fig. 25 | 47.25 | 6 is center tap. Electrostatic Shield |
| 363C | W 25986 | Mod. 50-60 | 4-110 4-120 5-110 5-120 | 110 120 110 120 | 1-3 | 120 | 7.1 | Fig. 25 | 47 | 2 is center tap Electrostatic Shield |
| 363D | | 50-60 | 4-210 4-230 4-250 | 210 230 250 | 1-3 | 120 | 7.1 | Fig. 25 | 47 | 2 is center tap Electrostatic Shield |
| 363E | | 50-60 | 5-210 5-230 5-250 | 210 230 250 | 1-3 | 140 | 7.1 | | | |
| 363E | W 34401 | 60 | 1-2 | 115 | 3-5 | 4280 | .213 | Fig. 25 | 40 | 4 is center tap Electrostatic Shield |
| 364A | W 25501 | 160 | 1-2 | 17.5 | 3-4 | 7.5 | .050 | Fig. 2B | 1.75 | |

TRANSFORMERS

| Code | Ref.No. | Freq.Range Cycles | Pri. Wdg. Volts | Sec. Wdg. Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|-------|-----------------------------|----------------------|---|---|-------------------------|----------------|---------|---|
| 364 B | W 26057 | 60 | Orange-Orange Wh 210 Orange-Yellow 230 Orange-Yellow Wh 250 | 1-2 40 3-5 5.1 3-6 10.1 7-8 30 | .01 1.2 .5 .02 | Fig.2B | 2 | 4 is center tap in wd (3-5) |
| 364C | W26373 | 55-65 | 1-2 55 | 3-8 100 | .014 | Fig.2B | 2 | With .015 amp dc on (3- Electrostatic Shield Brown is a tap at approx 130 volts |
| 364D | W 28393 | 50-60 | Red-Blue 110 Red-Blue Wh 115 Red-Green 120 | Gr-Wh-Br Wh 140 Gr-Or Wh 10 | .045 .64 | Fig.2B | 2 | |
| | | 50-60 | Red-Wh-Blue 110 Red Wh-Blue Wh 115 Red Wh-Green 120 | Gr-Wh Br Wh 140 Or Or Wh 10 | .060 1.28 | | | |
| 364E | W28466 | 540-600 | 1-2 17 | 3-4 2.62 3-5 3.52 3-6 5.25 | - - - | Fig.2B | 1.75 | Max.100 milliwatt power output |
| | | | 1-A 4 | 3-4 2.0 3-5 2.68 3-6 4.0 | - - - | | | |
| 364F | Replaces W-25379 & D 157924 | 60 | Red-Red Wh 1200 | Blue-Bl-Wh 12 | .070 | Fig.2B | 2 | |
| 364G | W 34023 | 60 | Red-Red Wh 230 | Blue-Bl Wh 23 Gr-Gr Wh 100 | .190 | Fig.2B | 2 | |
| 364H | W 34354 | 60 | 1-2 115 | 4-6 6.3 7-9 6.3 | 2.35 .60 | Fig.2B | 1.75 | 5 & 8 are center taps |
| | | | 1-3 115 | 4-6 6.3 7-9 6.3 | 1.13 .30 | | | |
| 365A | | 60 | 4-210 276 4-230 296 4-250 326 | 1-3 148 | 21 | 9 7/8x9x9 3/16 | 100 | 2 is center tap Electrostatic Shield |

TRANSFORMERS

| Code | Ref.No. | Freq.Range Cycles | Pri. Wdg. Volts | Sec. Wdg. Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|------|---------------------|----------------------|---|--|-------------------------|------------------------|---------|--|
| 366A | W 25766 | 60 | 4-210 199 4-230 218 4-250 237 | 1-3 132 3-2 94 | 4.2 7.8 | 6 11/16x5 29/32x6 9/16 | 32.5 | |
| 366B | W 27761 D 160217 | 60 | 1-5 254 | 9-10 700 11-12 700 | .47 .47 | 6 11/16x5 29/32x6 5/8 | 32 | By means of taps on 4, 3,2 on the primary, the sec.voltages can be raised 17 V, 1 amp. by means of taps 6,7,8 on primary, sec. V, may be lowered in steps of approx 17 Volts per tap |
| 367A | W 26165 | 50-60 | Blk-Blk Yel. 110 Blk-Blk Red 120 | Gr-Gr Yel-Yel 850 Red-Red 850 | 6.2 5 .14 | 3 7/16x4 5/8x4 11/32 | 9 | Gr, Yel & Red Yel are center taps in (Gr Gr) & (Red-Red), resp. Or. leads are taps in (Red- Electrostatic Shield) |
| 367B | W 26046 | 50-60 | 1-2 115 | 3-4 115 | 1.35 | 3 7/16x4 5/8 x 4 1/2 | 9 | |
| 367C | W 27282 | 50-60 | 1-2 100 1-3 107.5 1-4 115 1-5 122.5 | 6-7 24 8-9 5 10-12 474 13-14 45 | .64 2 .035 .35 | 3 7/16x4 5/8x4 11/32 | 9 | 11 is center tap |
| 367D | W 33420 | Mod. 60 | 1-2 2800 | 3-4 28 | .036 | 3 7/16x4 5/8x4 9/16 | 7.25 | Electrostatic Shield |
| 367E | W 34655 | 60 | 1-4 145 | 5-14 115 | .50 | 3 7/16x4 5/8x4 13/32 | 8.5 | 2 connected to 3; 6 to 13 are taps in (5-14) |
| 368A | | 50-60 | Red-Wh-Blue 100 Bl-Bl Wh 110 Red-Elite 120 Red Wh-Blue Wh 210 Red Wh-Green 220 Red Bl -Wh 230 Red-Green 240 | Gr-Wh-Or 90 | .010 | 1 11/16x2 1/2x 3 1/2 | 1.75 | Br & Br Wh are taps in Gr Wh - Orange |
| 368B | W28386 | 60 | 1-2 60 1-3 66 | 4-6 2 7-9 2 10-12 3 | .25 .25 .53 | 1 11/16x2 1/2x3 1/2 | 1.75 | 5,8 & 11 are center taps |
| 368C | W 34656 | 60 | 1-3 18 | 4-5 30 | .22 | 1 11/16x2 1/2x 3 1/2 | 1.75 | 2 is center tap -Elect static Shield |

TRANSFORMERS

| Code | Ref.No. | Freq. Range | | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|------|---------------------|-------------|------------|-------|-----------|-------|---------|---------------------------|---------|---|
| | | Coils | Pri. Wdg. | | | | | | | |
| 369A | W 27239 W 28205 | 50-60 | Red-Red-Wh | 110 | 3-4 | 1 | 1000 | 4 1/8x4 1/8x4 11/32 | 11 | Operates 0.1 sec. every 2 minutes |
| 370A | W 27825 | 50-60 | G N-C | 110 | LI-R | 24 | .024 | 1 1/2x 2 3/8x 1 3/8 | 7 oz | |
| 371A | W 28436 | 50-60 | 4-110 | 110 | 1-3 | 420 | 2.12 | 6 21/32x6 11/16x6 5/8 | 40 | 2 is center tap |
| 371B | | 50-60 | 4-210 | 210 | 1-3 | 420 | 2.12 | 6 21/32x6 11/16x6 5/8 | 40 | 2 is center tap |
| | | | 4-230 | 230 | | | | | | |
| | | | 4-250 | 250 | | | | | | |
| 372A | W 25319 | 60 | 1-6 | 50 | 13-14 | 7 | 1.3 | 3 27/32x5 23/32x6 3/4 | 11 | 2,3,4&5 are taps in w (1-6) 8,9,10 & 11 are taps in wdg (7-12) Tap 17T in (17-18) |
| | | | 7-12 | 50 | 15-16 | 7 | 1.3 | | | |
| | | | | | 17-18 | 120 | .10 | | | |
| | | | | | 19-20 | 120 | .10 | | | |
| 372G | W 34522 | 60 | 1-10 | 53 | 21-22 | 6.7 | 1.3 | 3 27/32x5 23/32x6 3/4 | 11 | Tap 19T in (19-20) |
| | | | 11-20 | 53 | 23-24 | 6.7 | 1.3 | (2,3,4,5,6,7,8,9 are taps | | in 1-10; 12,13,14,15,16, 17,18,19 are taps in 11-20 |
| | | | | | 25-26 | 127.5 | .095 | | | |
| | | | | | 27-28 | 127.5 | .095 | | | |
| 373A | W 28865 D 161249 | 60 | 1-3 | 60 | 5-7 | 6.1 | .6 | Fig. 28 | 1 | |
| 373B | W 32178 | 120 | 1-3 | 180 | 9-11 | 60 | .005 | Fig. 28 | 1.5 | Electrostatic Shield |
| | | | | | 7-12 | 18 | .2 | | | |
| | | | | | 7-11 | 16 | .2 | | | |
| | | | | | 7-10 | 14 | .2 | | | |
| | | | | | 7-9 | 12 | .2 | | | |
| 373C | W 33813 | 50-60 | 1-2 | 85 | 1-3 | 100 | .001 | Fig. 28 | 1.25 | 6 & 8 are center taps |
| | | | | | 1-4 | 200 | .005 | | | |
| | | | | | 5-7 | 90 | .010 | | | |
| | | | | | 10-12 | 500 | .009 | | | |
| 373D | W 33815 | 50-60 | 1-2 | 97 | 5-6 | 6.4 | .3 | Fig. 28 | 1.25 | Electrostatic Shield |
| | | | | | 9-10 | 6.4 | .45 | | | |
| 373E | W 34658 | 60 | 2-5 | 115 | 8-11 | 31 | .11 | Fig. 28 | 1.25 | Electrostatic Shield |

TRANSFORMERS

| Code | Ref.No. | Freq. Range | | Volts | Sec. Wdg. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|------|---------------------|-------------|-----------|-------|-----------|-------|---------|--------------------|---------|--|
| | | Coils | Pri. Wdg. | | | | | | | |
| 374A | W 33080 D 172163 | 60 | 1-2 | 60 | 3-4 | 6.3 | 12 | 4 1/8x2 3/4x4 3/16 | 6 | |
| 375A | W 33079 D 172162 | 60 | 1-9 | 115 | 1-6 | 75 | 1.3 | 5 7/8x2 5/8x4 3/16 | 6.75 | |
| | | | 3-11 | 115 | 1-7 | 80 | 1.3 | | | |
| | | | | | 1-8 | 85 | 1.3 | | | |
| 376A | W 33874 | 50-60 | 1-2 | 115 | 3-4 | 12 | 16 | 3 5/8x3 3/4x5 5/16 | 8.5 | 6 is center tap |
| 377A | W 33624 | 50-60 | 1-2 | 115 | 5-7 | 890 | .180 | 4 7/16x4 5/8x4 5/8 | 12 | Electrostatic Shield |
| | | 50-60 | 1-4 | 230 | | | | | | |
| 377B | W 34397 | 60 | 1-2 | 115 | 3-5 | 550 | .295 | 4 7/16x4 5/8x4 3/8 | 10.75 | 4 is center tap |
| | | | | | 6-7 | 120 | .0055 | | | Electrostatic Shield |
| 377C | W 34398 | 60 | 1-2 | 115 | 3-5 | 630 | .292 | 4 7/16x4 5/8x4 3/8 | 10.88 | 4 is center tap |
| | | | | | | | | | | Electrostatic Shield |
| 377D | W 34399 | 60 | 1-2 | 115 | 3-5 | 790 | .285 | 4 7/16x4 5/8x4 3/8 | 10.88 | 4 is center tap |
| | | | | | | | | | | Electrostatic Shield |
| 377E | W 34400 | 60 | 1-2 | 115 | 3-5 | 920 | .156 | 4 7/16x4 5/8x4 3/8 | 11.75 | 4 is center tap |
| | | | | | 6-7 | 120 | .0055 | | | Electrostatic Shield |
| 377F | W 34402 | 60 | 1-2 | 115 | 3-5 | 5 | 7.5 | 4 7/16x4 5/8x4 3/8 | 12 | 4 is center tap |
| | | | | | 6-7 | 20 | 1.8 | | | Electrostatic Shield |
| | | | | | 8-9 | 6.3 | .35 | | | |
| 379A | W 33811 | 50-60 | 1-2 | 115 | 3-5 | 850 | .29 | Fig. 290 | 15.5 | 4 is center tap connected internally to case |
| | | | | | 6-7 | 5.1 | 2 | | | |
| | | | | | 8-9 | 6.4 | 3.75 | | | |
| 379B | W 34913 | 60 | 1-2 | 110 | 4-10 | 1115 | .218 | Fig. 290 | 15.5 | Taps 5 & 9 on wdg (4-10) provide 960 volts. Either (4-10) or (5-9) may be used |
| | | | 1-3 | 120 | 6-8 | 188 | .021 | | | |
| | | | | | 11-12 | 5 | 4 | | | |
| | | | | | 13-15 | 6.3 | 10 | | | |
| 380A | W 33812 | 50-60 | 1-2 | 115 | 3-5 | 380 | .045 | 2 5/8x2 7/8 x 5 | 4.25 | 7 & 14 are center taps |
| | | | | | 6-7 | 6.4 | 1.25 | | | 4 is center tap |
| | | | | | 8-9 | 6.3 | .6 | | | Electrostatic Shield |
| 380B | W 33814 | 50-60 | 1-2 | 85 | 3-4 | 6.4 | 4.5 | 2 5/8x2 7/8 x 3 | 4.25 | Electrostatic Shield |
| | | | | | 5-6 | 6.4 | .5 | | | |
| | | | | | 7-8 | 6.4 | .3 | | | |
| | | | | | 9-10 | 6.4 | .3 | | | |

TRANSFORMERS

| Code | Ref.No. | Freq. Range | | Voice | Sec. Wgts. | Voice | Amperes | Size-Inches | Wt. Lbs | Remarks |
|------|--------------------|-------------|---------------|------------|---|--|--|-----------------------|---------|--|
| | | Cycles | Pri. Wgts. | | | | | | | |
| 381A | W33976 D-175724 | 60 | 1-2 1-3 | 110 120 | 4-5 6-8 7-8 9-11 12-14 15-17 | 30 125 6 1.3 1.3 6.25 | .052 .208 .15 .20 .20 .65 | 2 5/8x2 15/16x3 5/32 | 2.5 | |
| 381B | D-175725 | 60 | 1-2 1-3 | 110 120 | 4-6 7-8 or 7-9 10-11 or 10-12 13-15 16-18 19-21 22-24 | 81 110 130 110 125 1.3 1.3 1.3 1.3 6.45 | .084 .003 .003 .003 .208 .2 .2 .2 .2 .8 | 2 5/8x2 15/16x3 5/32 | 2.5 | |
| 381C | W 34817 | 60 | 1-2 1-3 | 110 120 | 4-5 6-8 9-11 12-14 15-17 | 30 125 1.4 1.3 6.25 | .052 .208 .20 .20 .65 | 2 5/8x2 15/16x3 5/32 | 2.5 | Electrostatic Shield 10,13 and 16 are center taps |
| 381D | W34858 | 60 | 1-2 1-3 | 110 120 | 4-6 7-8 8-9 8-10 11-13 14-16 17-19 20-22 | 81 110 110 125 1.3 1.3 1.3 6.45 | .084 .003 .003 .208 .20 .20 .20 .80 | 2 5/8x2 15/16x3 5/32 | 2.75 | 5,12,15,18 & 21 are center taps 2 and 9 are taps, Electrostatic Shield |
| 382A | W27620 Mod. | 50-60 | Red Bl-R-Br | 115 | Red-Brown | 49.2 | .7 | 2 1/4x2 1/2x 3 3/16 | 2.5 | Red White, Blue, Blue Wh Gr and Gr Wh are taps in wdg (Red-Brown) |
| 382B | W27621 Mod. | 50-60 | Red Bl-R-Br | 230 | Red-Brown | 49.2 | .7 | 2 3/4x2 1/2x 3 3/16 | 2.5 | Red Wh, Bl, Bl, Wh Gr & Gr Wh are taps in (Red-Brown) |
| 383A | W27622 | 50-60 | Red-Bl-Red-Br | 115 | Red-Brown Wh. | 271 | .125 | 2 1/2x 2 1/2 x 3 3/16 | | Red Wh, Bl, Bl Wh, Gr, Gr, Wh. and Br. are taps in (Red Brown white) |
| 384A | W27623 | 50-60 | Red Bl-Red-Br | 115 | Red-Red Wh Blue-Blue Wh | 7.27 22.3 | .7 .8 | 2 x 2 1/2 x 3 1/8 | 2. | |

TRANSFORMERS

| Code | Ref.No. | Freq. Range | | Voice | Sec. Wgts. | Volts | Amperes | Size-Inches | Wt. Lbs | Remarks |
|------|---------|-------------|-----------------|------------|--|------------------------------------|--|-----------------------|---------|---|
| | | Cycles | Pri. Wgts. | | | | | | | |
| 384B | W27624 | 50-60 | Red-Blue-Red-Br | 115 | Red-Gr. | 28.1 | .4 | 2 x 2 1/2 x 3 1/8 | 1.5 | Red Wh, Bl and Bl Wh are taps in (Red-Gr) |
| 385A | W33984 | 60 | 1-2 | 115 | 3-5 6-7 8-9 10-11 10-12 13-14 | 980 5 6.3 6.3 10 35 | .097 2. 1.5 2.5 .02 .15 | 3 1/16x 3 5/8x5 9/32 | 6.5 | 4 & 11 are taps in w (3-5) & (10-12) respectively. Electrostatic Shield |
| 386A | W 34422 | 50-60 | 1-2 | 115 | 3-4 | 20 | 6. | 3 1/16x3 5/8x5 9/32 | 6.5 | Electrostatic Shield |
| 387A | | 50-60 | 1-2 1-3 | 110 120 | 4-8 5-7 9-11 12-13 | 880 780 6.4 5.0 | .170 .170 5.3 3. | 3 x 3 31/32 x 5 21/32 | 8.5 | 6 is center tap of w (4-8) & (5-7) 10 is center tap of (9-11) |

FREQUENCY GENERATORS

| Code | Ref. No. | Input Characteristics | | | Output Characteristics | | | | Size/Inches | | | Wt. lbs | Remarks | |
|-------|---------------------|-----------------------|------------------|-------------|------------------------|------------------|--------------------------------------|------------------|------------------------|-------|---------|---------|---------|---|
| | | Voltage Range | Frequency G.P.S. | Terminals | Max. Amperes | Terminals | Voltage Range | Frequency G.P.S. | Rated Power Milliwatts | L | W | | | H |
| 101-A | W-25778 D-158901 | 105-125 | 60 | Cord & Plug | 0.280 | (1-2) (3-4) | 4.2-11.7 0.6-1.65 | 600/120 | 30 | 5-1/2 | 3 9/16 | 4-19/32 | 4.5 | |
| 102-A | W-26315 | 105-125 | 60 | Cord & Plug | 0.280 | (5-6) (1-4) | 15 DC 4.95-5.18 | 540 | 60 | 5-1/2 | 4-5/16 | 4-19/32 | 5.25 | Terminals 4 are taps output (1- |
| 103-A | W-33913 | 84-88 | 20 | (1-3) | 0.175 | (2-3) | 83-87 | 420/40 | 40 | 7-1/2 | 3-15/32 | 4-25/32 | 6.15 | |
| 104-A | W-34308 | 105-125 | 60 | Cord & Plug | 0.800 | (1-4) (7-10) | 0.9-1.5 1.8-3.0 | 600/120 | 900 | 23 | 3-15/32 | 5-1/2 | 22.0 | Terminals 2 are taps on put (1-4) Terminals 8 & 9 are taps on output (7-10) |
| 105-A | W-34392 | 105-125 | 60 | Cord & Plug | 1.0 | (11-12) (5-6) | 12 D.C. Terminals for Interrupter | | | 23 | 3-15/32 | 5-1/2 | 20.0 | Terminals 2 & 4 are tap on output (1 |
| | | | | | | (1-5) (6-7) | 6.0-9.0 5.0 D.C. | 540 | 900 | | | | | |

CURRENT SUPPLY SETS

| Code | Ref. No. | Input Characteristics | | | Output Characteristics | | | Size-Inches | Wt. lbs | Remarks | |
|-------|---------------------|-----------------------|-----------|----------|------------------------|-----------|--|-------------|--------------------|---------|------------------------------------|
| | | Freq. Range | Terminals | V. Range | Max. Amperes | Terminals | Volts | | | | Amperes |
| 101-B | - | 57-62 | L1-L2 | 90-125 | 2.8 | AC-G | 60 Regulated to ±3% | 1.2-1.5 | 23 x 3-15/32x8 | 30 | Output Voltage adjustable by screw |
| 103-A | W-33081 D-172165 | 58.8-61.2 | L1-L2 | 105-125 | 2.8 | AC-G | 6.6-5.8 Regulated to ±1.5% at fixed load | 2.5-12.0 | 19x3 15/32x12 3/32 | 35 | Output Voltage adjustable by screw |
| 104-A | W-34011 | 55-65 | 1-2 | 6.2-7.0 | .30 | 2-4 | 3.6-4.0 Regulated to ±1% for input voltage & 3% for frequency at fixed load | .010-.050 | 5-1/4x3-3/4x1-3/4 | 2 | Output voltage not adjustable |