

Sylvania

RADIO TUBES



Characteristics

SYLVANIA AVERAGE

| Type | Class | Base | Filament Rating | | Use | Plate Volts | Negative Grid Volts | Screen Volts | Plate Current Ma. | Screen Current Ma. | Plate Resistance Ohms | Micromhos Mutual Conductance | Amplification Factor | Ohms Load for Stated Power Output | Undistorted Power Output Milli-watts | | | |
|----------------|--------------------------|------|--|-------|-------------------------|---|----------------------------------|---|--|--|---|--|--|---|---|------------|--|--|
| | | | Volts | Amps. | | | | | | | | | | | | | | |
| 0A4G | Triode | 4-V | ..... | ..... | Relay Tube | Peak Cathode Ma. = 100. D-C Cathode Ma. = 25 Max. Starter Anode Drop = 60 V. Approx. Anode Drop = 70 V. Approx. | | | | | | | | | | | | |
| 0B3 / VR90-30 | Diode | 4-W | Voltage Regulator with starting Voltage at 125, Operating Volts 90, Operating Current 10 Ma Min 30 Ma Max. | | | | | | | | | | | | | | | |
| 0C3 / VR105-30 | Diode | 4-W | Voltage Regulator with starting Voltage at 135, Operating Volts 105, Operating Current 5 Ma Min 30 Ma Max. | | | | | | | | | | | | | | | |
| 0D3 / VR150-30 | Diode | 4-W | Voltage Regulator with starting Voltage at 180, Operating Volts 150, Operating Current 5 Ma Min 30 Ma Max. | | | | | | | | | | | | | | | |
| 0Z4, 0Z4G | Duodiode | 4-R | F-W Rect. 300 A-C Volts Per Plate, RMS, 75 Ma. Max. 30 Ma. Min. Output Current. | | | | | | | | | | | | | | | |
| 01A | Triode | 4-D | 5.0 | 0.25 | Amplifier | 90 135 | 4.5 9.0 | ..... ..... | 2.5 3.0 | ..... ..... | 11,000 10,000 | 725 800 | 8.0 8.0 | ..... ..... | ..... ..... |  |  |  |
| 1A4P | Pentode | 4-M | 2.0 | 0.06 | R-F Amp. | 135 180 | 3.0 3.0 | 67.5 67.5 | 2.2 2.3 | 0.9 0.8 | 1 Meg. 1 Meg. | 625 725 | ..... ..... | ..... ..... | ..... ..... |  |  |  |
| 1A4T | Tetrode | 4-K | 2.0 | 0.06 | R-F Amp. | 135 180 | 3.0 3.0 | 67.5 67.5 | 2.2 2.2 | 0.7 0.7 | 350,000 600,000 | 625 650 | ..... ..... | ..... ..... | ..... ..... |  |  |  |
| 1A5G/GT | Pentode | 6-X | 1.4 | 0.05 | Power Amp. | 85 90 | 4.5 4.5 | 85 90 | 3.5 4.0 | 0.7 0.8 | 300,000 300,000 | 800 850 | | | 95,000 25,000 | 100 115 | | |
| 1A6 | Heptode | 6-L | 2.0 | 0.06 | Converter | 135 180 | 3.0 3.0 | 67.5 67.5 | 1.8 1.5 | 2.1 2.0 | 400,000 500,000 | 275A 300A | (G2 = 135 V. □ Max. 2.0 Ma.) (G2 = 180 V. □ Max. 2.5 Ma.) | | | | | |
| 1A7G/GT | Heptode | 7-Z | 1.4 | 0.05 | Converter | 90 | 0.0 | 45 | 0.55 | 0.60 | 600,000 | 250A | (G2 = 90 V. Max. 1.2 Ma.) | | | | | |
| 1B4P | Pentode | 4-M | 2.0 | 0.06 | R-F Amp. | 135 180 | 3.0 3.0 | 67.5 67.5 | 1.6 1.7 | 0.7 0.6 | 1.5 Meg. † 1.5 Meg. † | 560 650 | ..... ..... | ..... ..... | ..... ..... |  |  |  |
| 1B5 / 35S | Duodiode Tri. | 6-M | 2.0 | 0.06 | Detector | 135 | 3.0 | ..... | 0.8 | ..... | 35,000 | 575 | 20 | ..... | ..... |  |  |  |
| 1B7G/GT | Heptode | 7-Z | 1.4 | 0.10 | Converter | 90 | 0.0 | 45 | 1.5 | 1.3 | 350,000 | 350A | (G2 = 90 V., 1.6 Ma.) | | | | | |
| 1C5GT/G | Pentode | 6-X | 1.4 | 0.10 | Power Amp. | 83 90 | 7.0 7.5 | 83 90 | 7.0 7.5 | 1.6 1.6 | 110,000 115,000 | 1,500 1,550 | 165 180 | 9,000 8,000 | 200 240 | | | |
| 1C6 | Heptode | 6-L | 2.0 | 0.12 | Converter | 135 180 | 3.0 3.0 | 67.5 67.5 | 1.3 1.5 | 2.5 2.0 | 600,000 700,000 | 300A 325A | (G2 = 135 V. □ Max. 3.1 Ma.) (G2 = 180 V. □ Max. 4.0 Ma.) | | | | | |
| 1C7G | Heptode | 7-Z | 2.0 | 0.12 | Converter | 135 180 | 3.0 3.0 | 67.5 67.5 | 1.3 1.3 | 2.5 2.0 | 600,000 700,000 | 300A 325A | (G2 = 135 V. □ Max. 3.1 Ma.) (G2 = 180 V. □ Max. 4.0 Ma.) | | | | | |
| 1D5GP | Pentode | 5-Y | 2.0 | 0.06 | R-F Amp. | 135 180 | 3.0 3.0 | 67.5 67.5 | 2.2 2.3 | 0.9 0.8 | 1 Meg. 1 Meg. | 625 725 | ..... ..... | ..... ..... | ..... ..... |  |  |  |
| 1D5GT | Tetrode | 5-R | 2.0 | 0.06 | R-F Amp. | 135 180 | 3.0 3.0 | 67.5 67.5 | 2.2 2.2 | 0.7 0.7 | 350,000 600,000 | 625 650 | ..... ..... | ..... ..... | ..... ..... |  |  |  |
| 1D7G | Heptode | 7-Z | 2.0 | 0.06 | Converter | 135 180 | 3.0 3.0 | 67.5 67.5 | 1.8 1.5 | 2.1 2.0 | 400,000 500,000 | 275A 300A | (G2 = 135 V. □ Max., 2.0 Ma.) (G2 = 180 V. □ Max., 2.5 Ma.) | | | | | |
| 1D8GT | Duodiode Tri. Pentode | 8-AJ | 1.4 | .100 | Det. Amp. Power Amp. | 45 67.5 90 45 67.5 90 | 0 0 0 4.5 6.0 9.0 | 45 67.5 90 | 0.3 0.6 1.1 1.6 3.8 5.0 | 0.3 0.8 1.0 | 77,000 55,500 43,500 300,000 † 200,000 † 200,000 † | 325 450 575 650 875 925 | 25 25 25 | 20,000 16,000 12,000 | 35 100 200 | | | |
| 1E4G | Triode | 5-S | 1.4 | 0.05 | Amplifier | 90 90 | 0.0 3.0 | ..... ..... | 4.5 1.5 | ..... ..... | 11,000 17,000 | 1,325 825 | 14.5 14 | ..... ..... | ..... ..... |  |  |  |
| 1E5GP | Pentode | 5-Y | 2.0 | 0.06 | R-F Amp. | 135 180 | 3.0 3.0 | 67.5 67.5 | 1.6 1.7 | 0.7 0.6 | 1.5 Meg. † 1.5 Meg. † | 560 650 | ..... ..... | ..... ..... | ..... ..... |  |  |  |
| 1E7G | Duo. Pentode | 8-C | 2.0 | 0.24 | Power Amp. | 135 | 7.5 | 135 | 7.0 † | 2.0 † | 220,000 | 1,600 | 350 | 24,000 † | 575 | | | |
| 1F4 | Pentode | 5-K | 2.0 | 0.12 | Power Amp. | 135 | 4.5 | 135 | 8.0 | 2.4 | 200,000 | 1,700 | ..... | 16,000 | 310 | | | |
| 1F5G | Pentode | 6-X | 2.0 | 0.12 | Power Amp. | 135 | 4.5 | 135 | 8.0 | 2.4 | 200,000 | 1,700 | ..... | 16,000 | 310 | | | |
| 1F6 | Duodi. Pent. | 6-W | 2.0 | 0.06 | R-F or I-F A-F Amp. | 180 135* | 1.5 2.0 | 67.5 | 2.2 | 0.7 | 1 Meg. | 650 ..... | ..... | ..... | ..... |  |  |  |
| 1F7G | Duodi. Pent. | 7-AD | 2.0 | 0.06 | R-F or I-F A-F Amp. | 180 135* | 1.5 2.0 | 67.5 | 2.2 | 0.7 | 1 Meg. | 650 ..... | ..... | ..... | ..... |  |  |  |
| 1G4GT/G | Triode | 5-S | 1.4 | 0.05 | Amplifier | 90 | 6.0 | ..... | 2.3 | ..... | 10,700 | 825 | 8.8 | ..... | ..... |  |  |  |
| 1G5G | Pentode | 6-X | 2.0 | 0.12 | Power Amp. | 90 | 6.0 | 90 | 8.5 | 2.5 | 133,000 † | 1,500 | ..... | 8,500 | 250 | | | |
| 1G6GT/G | Duodiode | 7-AB | 1.4 | 0.10 | Power Amp. Class B | 90 90 | 0.0 0.0 | ..... ..... | 1.0 † 1.0 † | ..... ..... | 45,000 | 675 | 30 | (Each Triode Class A) 12,000 † \| 675 | | | | |
| 1H4G | Triode | 5-S | 2.0 | 0.06 | Det. Amp. | 90 135 180 | 0.0 9.0 13.5 | ..... ..... ..... | 2.5 3.0 3.1 | ..... ..... ..... | 11,000 10,300 10,300 | 850 900 900 | 9.3 9.3 9.3 | ..... ..... ..... | ..... ..... ..... |  |  |  |
| 1H5G, GT | Diode-Triode | 5-Z | 1.4 | 0.05 | Det., Amp. | 90 | 0.0 | ..... | 0.15 | ..... | 240,000 | 275 | 65 | ..... | ..... |  |  |  |
| 1H6G | Duodiode Tri. | 7-AA | 2.0 | 0.06 | Det., Amp. | 135 | 3.0 | ..... | 0.8 | ..... | 35,000 | 575 | 20 | ..... | ..... |  |  |  |
| 1J5G | Pentode | 6-X | 2.0 | 0.12 | Power Amp. | 135 | 16.5 | 135 | 7.0 | 2.0 | 125,000 | 1,000 | 125 | 13,500 | 575 | | | |
| 1J6G | Duodiode | 7-AB | 2.0 | 0.24 | Power Amp. | Characteristics Same as Type 19. | | | | | | | | | | | | |
| 1LA4 | Pentode | 5-AD | 1.4 | 0.05 | Power Amp. | 85 90 | 4.5 4.5 | 85 90 | 3.5 4.0 | 0.7 0.8 | 300,000 300,000 | 800 850 | ..... ..... | 25,000 25,000 | 100 115 | | | |
| 1LA6 | Heptode | 7-AK | 1.4 | 0.05 | Converter | 90 | 0.0 | 45 | 0.55 | 0.6 | 750,000 | 250A | (G2 = 90V. Max., 1.2 Ma.) | | | | | |
| 1LB4 | Pentode | 5-AD | 1.4 | 0.05 | Power Amp. | 45 67.5 90 | 4.5 6.0 9.0 | 45 67.5 90 | 1.6 3.8 5.0 | 0.3 0.8 1.0 | 300,000 200,000 200,000 | 650 875 925 | ..... ..... ..... | 20,000 16,000 12,000 | 35 100 200 | | | |
| 1LC5 | Pentode | 7-AO | 1.4 | 0.05 | Amplifier | 45 90 | 0.0 0.0 | 45 45 | 1.1 1.5 | 0.25 0.20 | 700,000 1.5 Meg. | 750 775 | ..... | ..... | ..... |  |  |  |
| 1LC6 | Heptode | 7-AK | 1.4 | 0.05 | Converter | 45 90 | 0.0 0.0 | 35 35 | 0.7 0.75 | 0.75 0.7 | 300,000 650,000 | 250A 275A | (G2 = 45 V. Max., 1.4 Ma.) (G2 = 45 V. Max., 1.4 Ma.) | | | | | |
| 1LD5 | Diode Pent. | 6-AX | 1.4 | 0.05 | Amplifier | 45 90 | 0.0 0.0 | 45 45 | 0.55 0.6 | 0.12 0.1 | 900,000 750,000 | 550 575 | ..... | ..... | ..... |  |  |  |
| 1LE3 | Triode | 4-AA | 1.4 | 0.05 | Amplifier | 90 90 | 0.0 3.0 | ..... ..... | 4.5 1.4 | ..... ..... | 11,200 19,000 | 1,300 760 | 14.5 14.5 | ..... | ..... |  |  |  |
| 1LH4 | Diode-Tri. | 5-AG | 1.4 | 0.05 | Amplifier | 90 | 0.0 | ..... | 0.15 | ..... | 240,000 | 275 | 65 | ..... | ..... |  |  |  |
| 1LN5 | Pentode | 7-AO | 1.4 | 0.05 | Amplifier | 90 | 0.0 | 90 | 1.6 | 0.35 | 1.1 Meg. | 800 | ..... | ..... | ..... |  |  |  |
| 1NSG, GT | Pentode | 5-Y | 1.4 | 0.05 | R-F Amp. | 90 | 0.0 | 90 | 1.2 | 0.3 | 1.5 Meg. † | 750 | ..... | ..... | ..... |  |  |  |
| 1N6G | Diode Pent. | 7-AM | 1.4 | 0.05 | Power Amp. | 90 | 4.5 | 90 | 3.4 | 0.7 | 300,000 † | 800 | ..... | 25,000 | 100 | | | |
| 1P5G, GT | Pentode | 5-Y | 1.4 | 0.05 | Amplifier | 90 | 0.0 | 90 | 2.3 | 0.7 | 800,000 | 750 | ..... | ..... | ..... |  |  |  |
| 1Q5GT/G | Tetrode | 6-AF | 1.4 | 0.10 | Power Amp. | 90 | 4.5 | 90 | 9.5 | 1.3 | ..... | 2,200 | ..... | 8,000 | 270 | | | |
| 1R4-1294 | H. F. Diode | 4AH | 1.4 | .150 | Detector | Half wave cathode type rectifier for High Frequency use | | | | | | | | | | | | |
| 1R5 | Heptode | 7-AT | 1.4 | 0.05 | Converter | 45 90 | 0.0 0.0 | 45 67.5 | 0.7 1.7 | 1.9 3.0 | 600,000 † 500,000 † | 235A 300A | ..... | ..... | ..... |  |  |  |
| 1S4 | Pentode | 7-AV | 1.4 | 0.1 | Power Amp. | 45 90 | 4.5 7.0 | 45 67.5 | 3.8 † 7.4 † | 0.8 † 1.4 † | 100,000 † 100,000 † | 1,250 1,575 | ..... | 8,000 8,000 | 65 270 | | | |
| 1S5 | Diode Pent. | 6-AU | 1.4 | 0.05 | Amplifier | 67.5 | 0.0 | 67.5 | 1.6 | 0.4 | 600,000 | 625 | ..... | ..... | ..... |  |  |  |

*Applied through 250,000 ohms. †Triode Operation. ‡Pentode Operation. ††Plate to Plate. †††Approximate. ††††Conversion Conductance
 †††††Applied through 200,000 ohms. †††††Applied through 200,000 ohms. †††††For two tubes with 40 volts RMS applied to each grid. †††††150 Volts RMS applied to two grids.
 †††††With Average Power Input of 320 Mw. Grid to Grid. □ Applied through 20,000 ohms.

CHARACTERISTICS

| Type | Class | Base | Filament Rating | | Use | Plate Volts | Negative Grid Volts | Screen Volts | Plate Current Ma. | Screen Current Ma. | Plate Resistance Ohms | Micromhos Mutual Conductance | Amplification Factor | Ohms Load for Stated Power Output | Undistorted Power Output Milliwatts |
|-----------|-----------------------------|------|-----------------|--------------|--------------------------------------|---|---|--|--|---|---------------------------------------|--------------------------------|--|-----------------------------------|-------------------------------------|
| | | | Volts | Amps. | | | | | | | | | | | |
| 1T4 | Pentode | 6-AR | 1.4 | 0.05 | R-F Amp. | 45 90 | 0.0 0.0 | 45 67.5 | 1.9 3.7 | 0.7 1.25 | 350,000 500,000 | 700 900 | ..... | ..... | ..... |
| 1T5GT | Tetode | 6-AF | 1.4 | 0.05 | Power Amp. | 90 | 6.0 | 90 | 6.5 | 1.4 | ..... | 1,150 | ..... | 14,000 | 170 |
| 1V | Diode | 4-G | 6.3 | 0.30 | H-W Rect. | 325 A-C Volts Per Plate, RMS, 45 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 2A3 | Triode | 4-D | 2.5 | 2.50 | Power Amp. Class AB ₁ | 250 300 | 45.0 62.0 | ..... | 60.0 40.0 per Tube, Push Pull, Fixed Bias | ..... | 800 | 5,250 | 4.2 | 2,500 3,000 | 3,500 15,000 |
| 2A4G | Triode | 5-S | 2.5 | 2.50 | Relay Tube | Instantaneous Forward or Inverse Anode Volts = 200. Peak Anode Amps. = 1.25. Average Anode Current = 0.1 Amp. Max. Averaging Time = 45 Seconds. Cold Starting Time = 2 Seconds. | | | | | | | | | |
| 2A5 | Pentode | 6-B | 2.5 | 1.75 | Power Amp. | Characteristics Same as Type 6F6G. | | | | | | | | | |
| 2A6 | Duodiode Tri. | 6-G | 2.5 | 0.80 | Det. Amp. | 250 | 2.0 | ..... | 0.9 | ..... | 91,000 | 1,100 | 100 | ..... | ..... |
| 2A7, 2A7S | Heptode | 7-C | 2.5 | 0.80 | Converter | Characteristics Same as Type 6A7. | | | | | | | | | |
| 2B7, 2B7S | Duodi. Pent. | 7-D | 2.5 | 0.80 | R-F or I-F | Characteristics Same as Type 6B7. | | | | | | | | | |
| 2E5 | Triode | 6-R | 2.5 | 0.80 | Indicator | Characteristics Same as Type 6E5. | | | | | | | | | |
| 2S/4S | Duodiode | 5-D | 2.5 | 1.35 | Detector | The Two Diode Plates each Draw Approximately 40.0 Ma. with 50 Volts D.C. on the Plates. | | | | | | | | | |
| 2W3 | Diode | 4-X | 2.5 | 1.50 | H-W Rect. | 350 A-C Volts Per Plate, RMS, 55 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 2X2/879 | Diode | 4-AB | 2.5 | 1.75 | H-W Rect. | 4,500 A-C Volts Per Plate, RMS, 7.5 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 2Z2/G84 | Diode | 4-B | 2.5 | 1.50 | H-W Rect. | 350 A-C Volts Per Plate, RMS, 50 Ma. Output Current. | | | | | | | | | |
| 3A8GT | Diode Tri.-Pent. | 8-AS | 1.4 2.8 | 0.10 0.05 | Tri.-Amp. Pent.-Amp. | 90 90 | 0.0 0.0 | 90 | 0.15 1.20 | 0.3 | 240,000 600,000 | 275 750 | ..... | ..... | ..... |
| 3B7-1291 | Duodiode | 7BE | 2.8 1.4 | .110 .220 | Osc. Amp. | 135 180 | 0 0 | ..... ..... | 2.2 25 | (Class B) (Class C) | 1,900 | 20 | 16,000 | 1,500 ..... | ..... |
| 3D6-1299 | Tetrode | 6BB | 2.8 1.4 | .110 .220 | Power Amp. | 150 150 | 4.5 20.0 | 90 135 | 10.2 23.0 | 1.8 6.0 | (Class A) (Class C) | 2,400 ..... | ..... | 14,000 | 600 1,400 |
| 3Q5GT/G | Tetrode (Series Fil. Oper.) | 7-AP | 1.4 2.8 | 0.10 0.05 | Power Amp. | 90 90 | 4.5 4.5 | 90 90 | 9.5 8.0 | 1.3 1.0 | 75,000 80,000 | 2,200 2,000 | ..... | 8,000 8,000 | 270 230 |
| 3S4 | Tetrode (Series Fil. Oper.) | 7-BA | 1.4 2.8 | 0.10 0.05 | Power Amp. | 90 90 | 7.0 7.0 | 67.5 67.5 | 7.4 6.1 | 1.4 1.1 | 100,000 100,000 | 1,575 1,425 | ..... | 8,000 8,000 | 270 235 |
| 5U4G | Duodiode | 5-T | 5.0 | 3.00 | F-W Rect. | 450 A-C Volts Per Plate, RMS, 225 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 5V4G | Duodiode | 5-L | 5.0 | 2.00 | F-W Rect. | 375 A-C Volts Per Plate, RMS, 175 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 5W4GT/G | Duodiode | 5-T | 5.0 | 1.50 | F-W Rect. | 350 A-C Volts Per Plate, RMS, 110 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 5X4G | Duodiode | 5-Q | 5.0 | 3.00 | F-W Rect. | 450 A-C Volts Per Plate, RMS, 225 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 5Y3G | Duodiode | 5-T | 5.0 | 2.00 | F-W Rect. | 350 A-C Volts Per Plate, RMS, 125 Ma. Output Current. Condenser Input to Filter. Choke Input to Filter. | | | | | | | | | |
| 5Y4G | Duodiode | 5-Q | 5.0 | 2.00 | F-W Rect. | Characteristics Same as Type 5Y3G. | | | | | | | | | |
| 5Z3 | Duodiode | 4-C | 5.0 | 3.00 | F-W Rect. | 450 A-C Volts Per Plate, RMS, 225 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 5Z4 | Duodiode | 5-L | 5.0 | 2.00 | F-W Rect. | 350 A-C Volts Per Plate, RMS, 125 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 6A3 | Triode | 4-D | 6.3 | 1.00 | Power Amp. | 250 325 325 | 45.0 68.0 ..... | ..... ..... ..... | 60.0 40.0 40.0 | (Push Pull, Fixed Bias) (Push Pull, Self Bias Resistor 850 Ohms) | 800 | 5,250 | 4.2 | 2,500 3,000 5,000 | 3,200 15,000 10,000 |
| 6A4/LA | Pentode | 5-B | 6.3 | 0.30 | Power Amp. | 135 180 | 9.0 12.0 | 135 180 | 13.0 22.0 | 2.8 3.9 | 52,600 60,000 | 2,100 2,500 | 150 150 | 9,500 8,000 | 700 1,500 |
| 6A5G | Triode | 6-T | 6.3 | 1.25 | Power Amp. P.P. AB ₁ Amp. | 250 325 | 45.0 68.0 | ..... ..... | 60.0 40.0 | Per Tube, Push Pull, Fixed Bias | 800 | 5,250 | 4.2 | 2,500 3,000 | 3,750 15,000 |
| 6A6 | Duodiode | 7-B | 6.3 | 0.80 | Power Amp. Driver Driver | 300 250 294 | 0.0 5.0 6.0 | ..... ..... ..... | 17.5 6.0 7.0 | Per Plate, Class B Operation, Zero Signal | 11,300 11,000 | 3,100 3,200 | 35 35 | 10,000 (Class A Driver) | 10,000 (Class A Driver) |
| 6A7, 6A7S | Heptode | 7-C | 6.3 | 0.30 | Converter | Characteristics Same as Type 6A8G, Except Capacitances. | | | | | | | | | |
| 6A8 | Heptode | 8-A | 6.3 | 0.30 | Converter | Characteristics Same as Type 6A8G, Except Capacitances. | | | | | | | | | |
| 6A8G, GT | Heptode | 8-A | 6.3 | 0.30 | Converter | 100 250 | 1.5 3.0 | 50 100 | 1.1 3.5 | 1.3 2.7 | 600,000 360,000 | 360A 550A | (G ₂ = 100 V., 2.0 Ma.) (G ₂ = 250 V., Max., 4.0 Ma.) | ..... | ..... |
| 6AB5/6N5 | Triode | 6-R | 6.3 | 0.15 | Indicator | 135 | ..... | (Series Plate Resistor 0.25 Meg., Target Current 2.0 Ma., Grid Bias = 10 for 0° Shadow.) | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 6AB7/1853 | Pentode | 8-N | 6.3 | 0.45 | Amplifier | 300 | 3.0 | 200 | 12.5 | 3.2 | 700,000 | 5,000 | 3,500 | ..... | ..... |
| 6AC5GT/G | Triode | 6-Q | 6.3 | 0.40 | Power Amp. | 250 250 250 | (Bias From 76 Driver) | ..... ..... ..... | 32.0 32.0 2.5 | (Class A ₁ , One Tube, Dynamic Coupled) (Class B, Two Tubes) | 36,700 3,400 | 125 ..... | ..... | 7,000 10,000 | 3,700 8,000 |
| 6AC7/1852 | Pentode | 8-N | 6.3 | 0.45 | Amplifier | 300 | ..... | 150 | 10.0 | 2.5 | 750,000 | 9,000 | 6,750 | ..... | Bias Res. = 160 ohms. |
| 6AD6G | Duodiode | 7-AG | 6.3 | 0.15 | Indicator | 100 150 | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... |
| 6AD7G | Tri. Pentode | 8-AY | 6.3 | 0.85 | Triode Amp. Pent. Amp. | 250 250 | 25.0 16.5 | 250 | 4.0 34.0 | 6.5 | 19,000 80,000 | 325 2,500 | ..... | 7,000 | 3,200 |
| 6AE5GT/G | Triode | 6-Q | 6.3 | 0.30 | Amplifier | 95 | 15 | ..... | 7.0 | ..... | 3,500 | 1,200 | 4.2 | ..... | ..... |
| 6AE6G | Duo Plate Triode | 7-AH | 6.3 | 0.15 | Remote Cut-Off Sharp Cut-Off | 250 250 250 250 | 1.5 35.0 1.5 2.5 | ..... ..... ..... ..... | 6.5 0.01 4.5 0.01 | ..... ..... ..... ..... | 2,500 3,500 | 1,000 250 | 25 33 ..... | ..... ..... ..... ..... | ..... ..... ..... ..... |
| 6AE7GY | Duodiode | 7-AX | 6.3 | 0.50 | Amplifier | 250 | 13.5 | ..... | 10.0 | ..... | 4,650 | 3,000 | 14 | ..... | ..... |
| 6AF5G | Triode | 6-Q | 6.3 | 0.30 | Amplifier | 180 | 18.0 | ..... | 7.0 | ..... | 4,900 | 1,500 | 7.4 | ..... | ..... |
| 6AF6G | Duodiode | 7-AG | 6.3 | 0.15 | Indicator | 100 135 | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... | ..... ..... |
| 6AG7 | Pentode | 8-Y | 6.3 | 0.65 | Amplifier | 300 | 10.5 | 300 | 25.0 | 6.5 | 100,000 | 7,700 | ..... | ..... | ..... |
| 6B4G | Triode | 5-S | 6.3 | 1.00 | Power Amp. | Characteristics Same as Type 6A3. | | | | | | | | | |
| 6B5 | Duodiode | 6-AS | 6.3 | 0.80 | Power Amp. | Characteristics Same as Type 6N6G. | | | | | | | | | |
| 6B7, 6B7S | Duodi. Pent. | 7-D | 6.3 | 0.30 | R-F or I-F Amplifier | 100 180 250 250 | 3.0 3.0 3.0 4.5 | 100 75.0 100 50.0 | 5.8 3.4 6.0 0.65 | 1.7 0.9 1.5 | 300,000 1 Meg. 800,000 | 950 840 1,000 ..... | ..... ..... ..... ..... | ..... ..... ..... ..... |  |
| 6B8 | Duodi. Pent. | 8-E | 6.3 | 0.30 | R-F or I-F | 250 | 3.0 | 125 | 10.0 | 2.3 | 600,000 | 1,325 | ..... | ..... | ..... |
| 6B8G | Duodi. Pent. | 8-E | 6.3 | 0.30 | R-F or I-F | Characteristics Same as Type 6B7. | | | | | | | | | |
| 6C5GT/G | Triode | 6-Q | 6.3 | 0.30 | Amplifier | 250 | 8.0 | ..... | 8.0 | ..... | 10,000 | 2,000 | 20 | ..... | ..... |
| 6C6 | Pentode | 6-F | 6.3 | 0.30 | Amplifier | 100 250 | 3.0 3.0 | 100 100 | 2.0 2.0 | 0.5 0.5 | 1 Meg. 1 Meg. + | 1,185 1,225 | ..... | ..... | ..... |
| 6C7 | Duodiode Tri. | 7-G | 6.3 | 0.30 | Det. Amp. | 250 | 9.0 | ..... | 4.5 | ..... | 16,000 | 1,250 | 20 | ..... | ..... |
| 6C8G | Duodiode | 8-G | 6.3 | 0.30 | Amplifier Inverter | 250 250 | 4.5 3.0 | ..... ..... | 3.2 ..... | ..... | 22,500 | 1,600 | 35 | ..... | (One Section) |

*Applied through 250,000 ohms. **Triode Operation. †Pentode Operation. ‡Plate to Plate. ††For two tubes with 40 volts RMS applied to each grid. ‡‡Applied through 200,000 ohms. ‡‡‡With Average Power Input of 320 Mw. Grid to Grid. ‡‡‡‡Applied through 20,000 ohms. ‡‡‡‡‡Conversion Conductance 150 Volts RMS applied to two grids.

PENNSYLVANIA TUBE

| Type | Class | Base | Filament Rating | | Use | Plate Volts | Negative Grid Volts | Screen Volts | Plate Current Ma. | Screen Current Ma. | Plate Resistance Ohms | Micromhos Mutual Conductance | Amplification Factor | Ohms Load for Stated Power Output | Undistorted Power Output Milliwatts | |
|------------|---------------|------|-----------------|-------|---|---|--|---------------------------------|--|----------------------------------|------------------------------|------------------------------|--|--|---|--|
| | | | Volts | Amps. | | | | | | | | | | | | |
| 6D6 | Pentode | 6-F | 6.3 | 0.30 | Amplifier | 100 250 | 3.0 3.0 | 100 100 | 8.0 8.2 | 2.2 2.0 | 250,000 800,000 | 1,500 1,600 | ..... | ..... | ..... |  |
| 6D7 | Pentode | 7-H | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6C6 | | | | | | | | | | |
| 6D8G | Heptode | 8-A | 6.3 | 0.15 | Converter | 135 250 | 3.0 3.0 | 62.5 100 | 1.5 3.5 | 1.7 2.6 | 600,000 400,000 | 325A 550A | (G2=135 V., 1.8 Ma.) (G2=250 V., 4.5 Ma.) | | | |
| 6E5 | Triode | 6-R | 6.3 | 0.30 | Indicator | 100 250 | (Series Plate Resistor 0.5 Meg. Target Current 1.0 Ma. Grid Bias -3.3 for 0° Shadow.) (Series Plate Resistor 1.0 Meg. Target Current 4.0 Ma. Grid Bias -8.0 for 0° Shadow.) | | | | | | | | | |
| 6E6 | Duodiode | 7-B | 6.3 | 0.60 | Power Amp. (1 Section) | 180 250 | 20.0 27.5 | ..... | 11.5 18.0 | ..... | 4,300 3,500 | 1,400 1,700 | 6.0 6.0 | 15,000% 14,000% | 750 1,600 | |
| 6E7 | Pentode | 7-H | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6D6. | | | | | | | | | | |
| 6F5, G, GT | Triode | 5-M | 6.3 | 0.30 | Amplifier | 250 | 2.0 | ..... | 0.9 | ..... | 66,000 | 1,500 | 100 | ..... | ..... |  |
| 6F6, 6F6G | Pentode | 7-S | 6.3 | 0.70 | Power Amp. | 250 285 315 375 | 16.5 20.0 24.0 26.0 | 250 285 285 250 | 34.0 38.0 62.0 34.0 | 6.5 7.0 12.0 5.0 | 80,000 78,000 78,000 | 2,500 2,550 | (Current & Output for Two Tubes) (Current & Output for Two Tubes) | | | |
| 6F7, 6F7S | Pent.-Triode | 7-E | 6.3 | 0.30 | Pent. Amp. Pent. Amp. Triode Amp. | 100 250 100 | 3.0 3.0 3.0 | 100 100 | 6.3 6.5 3.5 | 1.6 1.5 | 290,000 850,000 16,200 | 1,050 1,100 525 | 8.5 | Pentode Section Pentode Section Triode Section (One Section) | | |
| 6F8G | Duodiode | 8-G | 6.3 | 0.60 | Amplifier Inverter | 250 250 | 8.0 5.5 | ..... | 9.0 ..... | ..... | 7,700 | 2,600 | 20 | [Plate Load 50,000 Ohms Per Plate, Self Bias Resistor 1,150 Ohms, Voltage Amplification 29, Output Volts 65, RMS, for Inverter Service.] | | |
| 6G6G | Pentode | 7-S | 6.3 | 0.15 | Power Amp. | 135 180 | 6.0 9.0 | 135 180 | 11.5 15.0 | 2.0 2.5 | 170,000 175,000 | 2,100 2,300 | ..... | 12,000 10,000 | 600 1,100 | |
| 6H4GT | Diode | 5-AF | 6.3 | 0.15 | Rectifier | 100 | ..... | ..... | 4.0 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| 6H6GT/G | Duodiode | 7-Q | 6.3 | 0.30 | Rectifier | 117 A-C Volts Per Plate, RMS, 4.0 Ma. Output Current. | | | | | | | | | | |
| 6J5GT/G | Triode | 6-Q | 6.3 | 0.30 | Amplifier | 250 | 8.0 | ..... | 9.0 | ..... | 7,700 | 2,600 | 20 | ..... | ..... |  |
| 6J7 | Pentode | 7-R | 6.3 | 0.30 | Amplifier | 250 | 3.0 | 100 | 2.0 | 0.5 | 1.0 Meg. + | 1,225 | ..... | ..... | ..... |  |
| 6J7G, GT | Pentode | 7-R | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6J7, Except Capacitances. | | | | | | | | | | |
| 6J8G | Tri.-Heptode | 8-H | 6.3 | 0.30 | Mixer Oscillator | 250 250 | 3.0 3.0 | 100 | 1.3 | 2.9 | 4.0 Meg. | 290A | (Heptode Section) (Triode Section) | | | |
| 6K5G, GT | Triode | 5-U | 6.3 | 0.30 | Amplifier | 100 250 | 1.5 3.0 | ..... | 0.35 1.10 | ..... | 78,000 50,000 | 900 1,400 | 70 70 | ..... | ..... |  |
| 6K6GT/G | Pentode | 7-S | 6.3 | 0.40 | Power Amp. | 100 250 315 | 7.0 18.0 21.0 | 100 250 250 | 9.0 32.0 25.5 | 1.6 5.5 4.0 | 104,000 68,000 75,000 | 1,500 2,300 2,100 | ..... | 12,000 7,600 9,000 | 350 3,400 4,500 | |
| 6K7 | Pentode | 7-R | 6.3 | 0.30 | Amplifier | 90 180 250 | 3.0 3.0 3.0 | 90.0 75.0 100 | 5.4 4.0 7.0 | 1.3 1.0 1.7 | 300,000 1 Meg. 800,000 | 1,275 1,100 1,450 | ..... | ..... | ..... |  |
| 6K7G, GT | Pentode | 7-R | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6K7, Except Capacitances. | | | | | | | | | | |
| 6K8 | Tri.-Hexode | 8-K | 6.3 | 0.30 | Mixer Osc. | Characteristics Same as Type 6K8G, Except Capacitances. | | | | | | | | | | |
| 6K8G, GT | Tri.-Hexode | 8-K | 6.3 | 0.30 | Mixer Oscillator | 250 100 | 3.0 | 100 | 2.5 | 6.0 | 600,000 | 350A | (Hexode Section) (Triode Section not Oscillating) | | | |
| 6L5G | Triode | 6-Q | 6.3 | 0.15 | Amplifier | 100 250 | 3.0 9.0 | ..... | 4.0 8.0 | ..... | 10,000 9,000 | 1,500 1,900 | 15 17 | ..... | ..... |  |
| 6L6, 6L6G | Tetrode | 7-AC | 6.3 | 0.90 | Power Amp. | 250 350 270 360 360 | 14.0 18.0 17.5 22.5 22.5 | 250 250 250 270 270 | 72.0 54.0 134.0 88.0 88.0 | 5.0 2.5 11.0 5.0 5.0 | 22,500 33,000 23,500 | 6,000 5,200 5,700 | ..... | 2,500 4,200 5,000% 6,600% 3,800% | 6,500 10,800 17,500 26,500 47,000 | |
| 6L7 | Heptode | 7-T | 6.3 | 0.30 | Mixer Amplifier | 250 250 | 6.0 3.0 | 150 100 | 3.3 5.3 | 9.2 6.5 | 1 Meg. + 600,000 | 350A 1,100 | (G3 = Neg. 15 Volts) (G3 = Neg. 3.0 Volts) | | | |
| 6L7G | Heptode | 7-T | 6.3 | 0.30 | Mixer-Amp. | Characteristics Same as Type 6L7, Except Capacitances. | | | | | | | | | | |
| 6N6G | Duodiode | 7-AU | 6.3 | 0.80 | Power Amp. | 300 300 | 0.0 0.0 | ..... | 8.0 ..... | ..... | 24,000 | 2,400 | 58 | 7,000 | 4,000 | |
| 6N7, 6N7G | Duodiode | 8-B | 6.3 | 0.80 | Power Amp. Driver Driver | 300 250 294 | 0.0 5.0 6.0 | ..... | 17.5 Per Plate, Class B Operation, Zero Signal 6.0 7.0 | ..... | 11,300 11,000 | 3,100 3,200 | 35 35 | 8,000% (Class A Driver) (Class A Driver) | 10,000 | |
| 6P5GT/G | Triode | 6-Q | 6.3 | 0.30 | Amplifier Detector | 250 250 | 13.5 20.0 | ..... | 5.0 ..... | ..... | 9,500 | 1,450 | 13.8 | ..... | ..... |  |
| 6P7G | Pent.-Triode | 7-U | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6P7, Except Capacitances. | | | | | | | | | | |
| 6Q7 | Duodiode Tri. | 7-V | 6.3 | 0.30 | Det.-Amp. | 100 250 | 1.5 3.0 | ..... | 0.35 1.1 | ..... | 88,000 58,000 | 800 1,200 | 70 70 | ..... | ..... |  |
| 6Q7G, GT | Duodiode Tri. | 7-V | 6.3 | 0.30 | Det.-Amp. | Characteristics Same as Type 6Q7, Except Capacitances. | | | | | | | | | | |
| 6R7 | Duodiode Tri. | 7-V | 6.3 | 0.30 | Det.-Amp. | 250 | 9.0 | ..... | 9.5 | ..... | 8,500 | 1,900 | 16 | ..... | ..... |  |
| 6R7G, GT | Duodiode Tri. | 7-V | 6.3 | 0.30 | Detector | Characteristics Same as Type 6R7, Except Capacitances. | | | | | | | | | | |
| 6S7 | Pentode | 7-R | 6.3 | 0.15 | Amplifier | Characteristics Same as Type 6S7G, Except Capacitances. | | | | | | | | | | |
| 6S7G | Pentode | 7-R | 6.3 | 0.15 | Amplifier | 135 250 | 3.0 3.0 | 67.5 100 | 3.7 8.5 | 0.9 2.0 | 1 Meg. + 1 Meg. + | 1,250 1,750 | 375 1,100 | ..... | ..... |  |
| 6SA7 | Heptode | 8-R | 6.3 | 0.30 | Converter | 100 250 | 2.0 2.0 | 100 100 | 3.3 3.5 | 8.5 8.5 | 500,000 + 1.0 Meg. + | 425A 450A | ..... | ..... | ..... |  |
| 6SA7GT/G | Heptode | 8-AD | 6.3 | 0.30 | Converter | Characteristics Same as Type 6SA7, Except Capacitances. | | | | | | | | | | |
| 6SC7 | Duodiode | 8-S | 6.3 | 0.30 | Amplifier | 250 | 2.0 | ..... | 2.0 | ..... | 53,000 | 1,325 | 70 | (Each Triode) | | |
| 6SD7GT | Pentode | 8-N | 6.3 | 0.30 | Amplifier | 100 250 | 2.0 2.0 | 100 100 | 5.7 6.0 | 2.0 1.9 | 250,000 + 1.0 Meg. + | 3,350 3,600 | ..... | ..... | ..... |  |
| 6SF5 | Triode | 6-AB | 6.3 | 0.30 | Amplifier | 250 | 2.0 | ..... | 0.9 | ..... | 66,000 | 1,500 | 100 | ..... | ..... |  |
| 6SF5GT | Triode | 6-AB | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6SF5, Except Capacitances. | | | | | | | | | | |
| 6SJ7 | Pentode | 8-N | 6.3 | 0.30 | Amplifier | 100 250 | 3.0 3.0 | 100 100 | 2.9 3.0 | 0.9 0.8 | 700,000 + 1.5 Meg. + | 1,575 1,650 | ..... | ..... | ..... |  |
| 6SJ7GT | Pentode | 8-N | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6SJ7, Except Capacitances. | | | | | | | | | | |
| 6SK7 | Pentode | 8-N | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 3.0 | 100 100 | 13.0 9.2 | 4.0 2.6 | 120,000 + 800,000 + | 2,350 2,000 | ..... | ..... | ..... |  |
| 6SK7GT/G | Pentode | 8-N | 6.3 | 0.30 | Amplifier | Characteristics Same as Type 6SK7, Except Capacitances. | | | | | | | | | | |
| 6SL7GT | Duodiode | 8BD | 6.3 | .300 | Amplifier | 250 | 2.0 | ..... | 2.3 | ..... | 44,000 | 1,600 | 70 | ..... | ..... |  |
| 6SN7GT | Duodiode | 8BD | 6.3 | .600 | Amplifier | 90 250 | 0 8 | ..... | 10 9 | ..... | 6,700 7,700 | 3,000 2,600 | 20 20 | ..... | ..... |  |
| 6SQ7 | Duodiode Tri. | 8-Q | 6.3 | 0.30 | Det.-Amp. | 250 | 2.0 | ..... | 0.9 | ..... | 91,000 | 1,100 | 100 | ..... | ..... |  |
| 6SQ7GT/G | Duodiode Tri. | 8-Q | 6.3 | 0.30 | Det.-Amp. | Characteristics Same as Type 6SQ7, Except Capacitances. | | | | | | | | | | |
| 6SR7 | Duodiode Tri. | 8-Q | 6.3 | 0.30 | Det.-Amp. | 250 | 9.0 | ..... | 9.5 | ..... | 8,500 | 1,900 | 16 | ..... | ..... |  |
| 6T7G | Duodiode Tri. | 7-V | 6.3 | 0.15 | Det.-Amp. | 100 250 | 1.5 3.0 | ..... | 0.3 1.2 | ..... | 95,000 62,000 | 680 1,050 | 65 65 | ..... | ..... |  |

*Applied through 250,000 ohms.
†Per Tube or Section—No Signal.
‡Plate and Target Supply Voltage.

**Triode Operation.
‡‡Applied through 200,000 ohms.
‡‡‡With Average Power Input of 320 Mw. Grid to Grid.

†††††Pentode Operation.

†††††Plate to Plate.

†††††Approximate.

†††††Conversion Conductance

150 Volts RMS applied to two grids.

□ Applied through 20,000 ohms.

CHARACTERISTICS

| Type | Class | Base | Filament Rating | | Use | Plate Volts | Negative Grid Volts | Screen Volts | Plate Current Ma. | Screen Current Ma. | Plate Resistance Ohms | Micromhos Mutual Conductance | Amplification Factor | Ohms Load for Stated Power Output | Undistorted Power Output Milli-watts | | |
|-----------|---------------|------|-----------------|--------------|-------------------------|--|---|-------------------|--------------------------|--|--|---|--|-----------------------------------|--------------------------------------|-----|--|
| | | | Volts | Amps. | | | | | | | | | | | | | |
| 6U5/6G5 | Triode | 6-R | 6.3 | 0.30 | Indicator | 100 250 | (Series Plate Resistor 0.5 Meg., Target Current 1.0 Ma., Grid Bias -8.0 for 0° Shadow.) (Series Plate Resistor 1.0 Meg., Target Current 4.0 Ma., Grid Bias -22.0 for 0° Shadow.) | | | | | | | | | | |
| 6U6GT | Tetrode | 7-AC | 6.3 | 0.75 | Power Amp. | 110 200 | 10.5 14.0 | 110 135 | 44.0 55.0 | 4.0 3.0 | 10,000 20,000 | 5,600 6,200 | | 2,000 3,000 | 2,000 5,500 | | |
| 6U7G | Pentode | 7-R | 6.3 | 0.30 | Amplifier | 100 250 | 3.0 3.0 | 100 100 | 8.0 8.2 | 2.2 2.0 | 250,000 800,000 | 1,500 1,600 | | | | | |
| 6V6GT/G | Tetrode | 7-AC | 6.3 | 0.45 | Power Amp. | Characteristics Same as Type 7C5. | | | | | | | | | | | |
| 6V7G | Duodiode Tri. | 7-V | 6.3 | 0.30 | Det.-Amp. | 135 180 250 | 10.5 13.5 20.0 | | 3.7 6.0 8.0 | | 11,000 8,500 7,500 | 750 975 1,100 | 8.3 8.3 8.3 | 25,000 20,000 20,000 | 75 160 350 | | |
| 6W7G | Pentode | 7-R | 6.3 | 0.15 | Amplifier | 250 | 3.0 | 100 | 2.0 | 0.5 | 1.5 Meg. | 1,925 | | | | | |
| 6X5GT/G | Duodiode | 6-S | 6.3 | 0.60 | F-W Rect. | 325 A-C Volts per Plate, RMS, 70 Ma. Output Current. Condenser Input to Filter. 450 A-C Volts per Plate, RMS, 70 Ma. Output Current. Choke Input to Filter. | | | | | | | | | | | |
| 6Y5 | Duodiode | 6-J | 6.3 | 0.80 | F-W Rect. | 350 A-C Volts per Plate, RMS, 50 Ma. Output Current. | | | | | | | | | | | |
| 6Y6G | Tetrode | 7-AC | 6.3 | 1.25 | Power Amp. | 135 200 | 13.5 14.0 | 135 135 | 58.0 61.0 | 3.5 2.2 | 9,300 18,300 | 7,000 7,100 | | 2,000 2,600 | 3,600 6,000 | | |
| 6Y7G | Duotriode | 8-B | 6.3 | 0.60 | Power Amp. | 180 250 | 0.0 0.0 | | 7.5 10.5 | | (Class B Operation) | | | 7,000 14,000 | 5,500 8,000 | | |
| 6Z5 | Duodiode | 6-K | 6.3 12.6 | 0.80 0.40 | F-W Rect. | 230 A-C Volts per Plate, RMS, 60 Ma. Output Current | | | | | | | | | | | |
| 6ZY5G | Duodiode | 6-S | 6.3 | 0.30 | F-W Rect. | 325 A-C Volts per Plate, RMS, 40 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | | | |
| 6Z7G | Duotriode | 8-B | 6.3 | 0.30 | Power Amp. | 135 180 | 0.0 0.0 | | 3.0 4.2 | | (Class B Operation) | | | 9,000 12,000 | 2,500 4,200 | | |
| 7A4 | Triode | 5-AC | 6.3 | 0.30 | Amplifier | 90 250 | 0.0 8.0 | | 10.0 9.0 | | 6,700 7,700 | 3,000 2,600 | 20 20 | | | | |
| 7A5 | Tetrode | 6-AA | 6.3 | 0.75 | Power Amp. | 110 125 | 7.5 9.0 | 110 125 | 40.0 44.0 | 3.0 3.3 | 14,000 17,000 | 5,800 6,000 | | 2,500 2,700 | 1,500 2,200 | | |
| 7A6 | Duodiode | 7-AJ | 6.3 | 0.15 | Det.-Rect. | 150 A-C Volts per Plate, RMS, 8 Ma. Output Current per Plate. | | | | | | | | | | | |
| 7A7 | Pentode | 8-V | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 3.0 | 100 100 | 13.0 9.2 | 4.0 2.6 | 120,000 800,000 | 2,350 2,000 | | | | | |
| 7A8 | Octode | 8-U | 6.3 | 0.15 | Converter | 100 250 | 3.0 3.0 | 75 100 | 1.8 3.0 | 2.7 3.2 | 650,000 700,000 | 375A 550A | (G2=100 V., 2.8 Ma.) (G2=250 V., 4.2 Ma.) | | | | |
| 7B4 | Triode | 5-AC | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 2.0 | | 0.4 0.9 | | 85,000 66,000 | 1,150 1,500 | 100 100 | | | | |
| 7B5 | Pentode | 6-AE | 6.3 | 0.40 | Power Amp. | 100 250 315 | 7.0 18.0 21.0 | 100 250 250 | 9.0 32.0 25.5 | 1.6 5.5 4.0 | 104,000 68,000 75,000 | 1,500 2,300 2,100 | | 12,000 7,600 9,000 | 350 3,400 4,500 | | |
| 7B6 | Duodiode Tri. | 8-W | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 2.0 | | 0.4 0.9 | | 110,000 91,000 | 900 1,100 | 100 100 | | | | |
| 7B7 | Pentode | 8-V | 6.3 | 0.15 | Amplifier | 100 250 | 3.0 3.0 | 100 100 | 8.2 8.5 | 1.8 1.7 | 300,000 750,000 | 1,675 1,750 | | | | | |
| 7B8 | Heptode | 8-X | 6.3 | 0.30 | Converter | 100 250 | 1.5 3.0 | 50 100 | 1.1 3.5 | 1.3 2.7 | 600,000 360,000 | 360A 550A | (G2=100 V., 2.0 Ma.) (G2=250 V., 4.0 Ma.) | | | | |
| 7C4-1203A | H. F. Diode | 4AHJ | 6.3 | .150 | Detector | Half wave cathode type rectifier for High Frequency use. | | | | | | | | | | | |
| 7C5 | Tetrode | 6-AA | 6.3 | 0.45 | Power Amp. | 180 250 315 | 8.5 12.5 13.0 | 180 250 225 | 29.0 45.0 34.0 | 3.0 4.5 2.2 | 58,000 52,000 77,000 | 3,700 4,100 3,750 | | 5,500 5,000 8,500 | 2,000 4,500 5,500 | | |
| | | | | | Class AB ₁ | 250 285 | 15.0 18.0 | 250 285 | 70.0 70.0 | 5.0 4.0 | (Class AB ₁ , Two Tubes) (Class AB ₁ , Two Tubes) | | | 10,000 8,000 | 10,000 14,000 | | |
| 7C6 | Duodiode Tri. | 8-W | 6.3 | 0.15 | Amplifier | 100 250 | 0.0 1.0 | | 1.0 1.3 | | 100,000 100,000 | 850 1,000 | 85 100 | | | | |
| 7C7 | Pentode | 8-V | 6.3 | 0.15 | Amplifier | 100 250 | 3.0 3.0 | 100 100 | 1.8 2.0 | 0.4 0.5 | 1.2 Meg. 2.0 Meg. | 1,925 1,300 | | | | | |
| 7E5-1201 | Triode | 8BN | 6.3 | .150 | Osc. Amp. | 250 150 | 3.5 10.2 | | 13.0 16.0 | | Oscillator for 750 mc service Oscillator-Amplifier for 300 mc Service | | | | | 200 | |
| 7E6 | Duodiode Tri. | 8-W | 6.3 | 0.30 | Amplifier | 250 | 9.0 | | 9.5 | | 8,500 | 1,900 | 16 | | | | |
| 7E7 | Duodi. Pent. | 8-AE | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 3.0 | 100 100 | 10.0 7.5 | 2.7 1.6 | 150,000 700,000 | 1,600 1,300 | 36 42.5 | | | | |
| 7F7 | Duotriode | 8-AC | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 2.0 | | 0.65 2.3 | | 62,000 44,000 | 1,125 1,600 | 70 70 | | | | |
| 7G7/1232 | Pentode | 8-V | 6.3 | 0.45 | Amplifier | 250 | 2.0 | 100 | 6.0 | 2.0 | 800,000 | 4,500 | | | | | |
| 7H7 | Pentode | 8-V | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 2.5 | 100 150 | 8.2 9.5 | 3.3 3.5 | 250,000 800,000 | 3,800 3,800 | | | | | |
| 7J7 | Tri.-Hexode | 8-BL | 6.3 | 0.30 | Hex. Mixer Tri. Osc. | 100 250 100 250 | 3.0 3.0 0.05 Meg. 0.05 Meg. | 100 100 | 1.5 1.4 3.2 5.0 | 2.6 2.8 (Triode Grid Current 0.3 Ma.) (Triode Grid Current 0.4 Ma.) | 500,000 1.5 Meg. | 280A 290A | | | | | |
| 7L7 | Pentode | 8-V | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 1.5 | 100 100 | 5.5 4.5 | 2.4 1.5 | 100,000 1.0 Meg. | 3,000 3,100 | | | | | |
| 7N7 | Duotriode | 8-AC | 6.3 | 0.60 | Amplifier (One Unit) | 90 250 | 0.0 8.0 | | 10.0 9.0 | | 6,700 7,700 | 3,000 2,600 | 20 20 | | | | |
| 7Q7 | Heptode | 8-AL | 6.3 | 0.30 | Converter | 100 250 | 2.0 2.0 | 100 100 | 3.3 3.5 | 8.5 8.5 | 500,000 1.0 Meg. | 525A (Osc. Grid Resistor 20,000.) 550A (Osc. Grid Current 0.5 Ma.) | | | | | |
| 7R7 | Diode-Pent. | 8-AE | 6.3 | 0.30 | Amplifier | 100 250 | 1.0 1.0 | 100 100 | 5.5 5.7 | 2.2 2.1 | 350,000 1.0 Meg. | 3,000 3,200 | | | | | |
| 7S7 | Tri.-Heptode | 8-BL | 6.3 | 0.30 | Hep. Mixer Tri. Osc. | 100 250 | 2.0 2.0 | 100 100 | 1.9 1.8 | 3.0 3.0 | 500,000 1.25 Meg. | 500A 525A | | | | | |
| 7V7 | Pentode | 8-V | 6.3 | 0.45 | Amplifier | 300 | | 150 | 10.0 | 3.9 | 300,000 | 5,800 | | | | | |
| 7W7 | Pentode | 8-BJ | 6.3 | 0.45 | Amplifier | Characteristics Same as Type 7V7, Except Capacitances. | | | | | | | | | | | |
| 7Y4 | Duodiode | 5-AB | 6.3 | 0.50 | F. W. Rect. | 325 A-C Volts per Plate, RMS, 60 Ma. Output Current. Condenser Input to Filter. 450 A-C Volts per Plate, RMS, 60 Ma. Output Current. Choke Input to Filter. | | | | | | | | | | | |
| TZ4 | Duodiode | 5-AB | 6.3 | 0.90 | F. W. Rect. | 325 A-C Volts per Plate, RMS, 100 Ma. Output Current. Condenser Input to Filter. 450 A-C Volts per Plate, RMS, 100 Ma. Output Current. Choke Input to Filter. | | | | | | | | | | | |
| 10 | Triode | 4-D | 7.5 | 1.25 | Power Amp. | 250 350 425 | 23.5 32.0 40.0 | | 10.0 16.0 18.0 | | 6,000 5,150 5,000 | 1,330 1,550 1,600 | 8.0 8.0 8.0 | 13,000 11,000 10,200 | 400 900 1,600 | | |
| 12A | Triode | 4-D | 5.0 | 0.25 | Det.-Amp. | 90 135 180 | 4.5 9.0 13.5 | | 5.0 6.2 7.7 | | 5,400 5,100 4,700 | 1,575 1,650 1,800 | 8.5 8.5 8.5 | 5,000 9,000 10,650 | 35 130 285 | | |

*Applied through 250,000 ohms.
#Per Tube or Section—No Signal.
!Plate and Target Supply Voltage.

**Triode Operation.
‡Applied through 200,000 ohms.
§With Average Power Input of 320 Mw. Grid to Grid.

†Pentode Operation.
‡For two tubes with 40 volts RMS applied to each grid.

¶Plate to Plate.
‡Applied through 20,000 ohms.

§Approximate.

ΔConversion Conductance
150 Volts RMS applied to two grids.

SYLVANIA AVERAGE

| Type | Class | Base | Filament Rating | | Use | Plate Volts | Negative Grid Volts | Screen Volts | Plate Current Ma. | Screen Current Ma. | Plate Resistance Ohms | Micromhos Mutual Conductance | Amplification Factor | Ohms Load for Stated Power Output | Undistorted Power Output Milliwatts |
|-----------|---------------|------|-----------------|-------|------------------------|---|---------------------|---|--------------------------------------|--------------------|-----------------------|----------------------------------|--------------------------------------|-----------------------------------|-------------------------------------|
| | | | Volts | Amps. | | | | | | | | | | | |
| 12A5 | Pentode | 7-F | 12.6 | 0.30 | Power Amp. | 100 | 15.0 | 100 | 17.0 | 3.0 | 50,000† | 1,700 | ..... | 4,500 | 800 |
| | | | 6.3 | 0.60 | Power Amp. | 180 | 25.0 | 180 | 45.0 | 8.0 | 35,000† | 2,400 | ..... | 3,300 | 3,400 |
| 12A7 | Diode-Pent. | 7-K | 12.6 | 0.30 | Rectifier Amplifier | 125 RMS | ..... | ..... | 30.0 Max. | ..... | ..... | ..... | ..... | ..... | ..... |
| | | | | | Converter | 135 | 13.5 | 135 | 9.0 | 2.5 | 102,000 | 975 | 100 | 13,500 | 550 |
| 12A8G, GT | Heptode | 8-A | 12.6 | 0.15 | ..... | Characteristics Same as Type 6A8G. | | | | | | | | | |
| 12B8GT | Pentode Tri. | 8-T | 12.6 | 0.30 | Pent. Amp. Tri.-Amp. | 100 | 3.0 | 100 | 8.0 | 2.0 | 170,000 | 2,100 | 360 | Pentode Section Triode Section | |
| | | | | | Tri.-Amp. | 100 | 1.0 | ..... | 0.6 | ..... | 73,000 | ..... | 110 | ..... | ..... |
| 12C8 | Pentode | 8-E | 12.6 | 0.15 | R-F or I-F | Characteristics Same as Type 6B8. | | | | | | | | | |
| 12F5GT | Triode | 5-M | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6F5G. | | | | | | | | | |
| 12J5GT | Triode | 6-Q | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6J5GT/G. | | | | | | | | | |
| 12J7GT | Pentode | 7-R | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6J7G. | | | | | | | | | |
| 12K7G, GT | Pentode | 7-R | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6K7G. | | | | | | | | | |
| 12K8 | Tri.-Hexode | 8-K | 12.6 | 0.15 | Converter | Characteristics Same as Type 6K8. | | | | | | | | | |
| 12Q7G, GT | Duodiode-Tri. | 7-V | 12.6 | 0.15 | Det.-Amp. | Characteristics Same as Type 6Q7G. | | | | | | | | | |
| 12SA7 | Heptode | 8-R | 12.6 | 0.15 | Converter | Characteristics Same as Type 6SA7. | | | | | | | | | |
| 12SA7GT/G | Heptode | 8-AD | 12.6 | 0.15 | Converter | Characteristics Same as Type 6SA7GT/G. | | | | | | | | | |
| 12SC7 | Duodiode | 8-S | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6SC7. | | | | | | | | | |
| 12SF5, GT | Triode | 6-AB | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6SF5. | | | | | | | | | |
| 12SJ7 | Pentode | 8-N | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6SJ7. | | | | | | | | | |
| 12SJ7GT | Pentode | 8-N | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6SJ7, Except Capacitances. | | | | | | | | | |
| 12SK7 | Pentode | 8-N | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6SK7. | | | | | | | | | |
| 12SK7GT/G | Pentode | 8-N | 12.6 | 0.15 | Amplifier | Characteristics Same as Type 6SK7GT/G. | | | | | | | | | |
| 12SL7GT | Duodiode | 8BD | 12.6 | .150 | Amplifier | 250 | 2.0 | ..... | 2.3 | ..... | 44,000 | 1,600 | 70 | ..... | ..... |
| | | | | | Amplifier | 90 | 0 | ..... | 10 | ..... | 6,700 | 3,000 | 20 | ..... | ..... |
| | | | | | Amplifier | 250 | 8 | ..... | 9 | ..... | 7,700 | 2,600 | 20 | ..... | ..... |
| 12SN7GT | Duodiode Tri. | 8BQ | 12.6 | 0.15 | Det.-Amp. | Characteristics Same as Type 6SQ7. | | | | | | | | | |
| 12SQ7GT/G | Duodiode Tri. | 8BQ | 12.6 | 0.15 | Det.-Amp. | Characteristics Same as Type 6SQ7GT/G. | | | | | | | | | |
| 12SR7 | Duodiode Tri. | 8-Q | 12.6 | 0.15 | Det.-Amp. | Characteristics Same as Type 6SR7. | | | | | | | | | |
| 12Z3 | Diode | 4-G | 12.6 | 0.30 | H-W Rect. | 235 A-C Volts per Plate, RMS, 55 Ma. Output Current. Condenser Input to Filter. | | | | | | | | | |
| 14A4 | Triode | 5-AC | 12.6 | 0.15 | Amplifier | 90 | 0.0 | ..... | 10.0 | ..... | 6,700 | 3,000 | 20 | ..... | ..... |
| | | | | | Amplifier | 250 | 8.0 | ..... | 9.0 | ..... | 7,700 | 2,600 | 20 | ..... | ..... |
| 14A5 | Tetrode | 6-AA | 12.6 | 0.15 | Power Amp. | 250 | 12.5 | 250 | 30.0 | 3.5 | 70,000† | 3,000 | ..... | 7,500 | 2,800 |
| 14A7/12B7 | Pentode | 8-V | 12.6 | 0.15 | Amplifier | 100 | 1.0 | 100 | 13.0 | 4.0 | 120,000† | 2,350 | ..... | ..... | ..... |
| | | | | | Amplifier | 250 | 3.0 | 100 | 9.2 | 2.6 | 800,000† | 2,000 | ..... | ..... | ..... |
| 14B6 | Duodiode Tri. | 8-W | 12.6 | 0.15 | Det.-Amp. | 100 | 1.0 | ..... | 0.4 | ..... | 110,000 | 900 | 100 | ..... | ..... |
| | | | | | Det.-Amp. | 250 | 2.0 | ..... | 0.9 | ..... | 91,000 | 1,100 | 100 | ..... | ..... |
| 14B8 | Heptode | 8-X | 12.6 | 0.15 | Converter | 100 | 1.5 | 50.0 | 1.1 | 1.3 | 600,000 | 360A | (G ₂ = 100V., 2.0 Ma.) | | |
| | | | | | Converter | 250 | 3.0 | 100 | 3.5 | 2.7 | 360,000 | 550A | (G ₂ = 250 V. □, 4.0 Ma.) | | |
| 14C5 | Tetrode | 6-AA | 12.6 | 0.225 | Power Amp. | Characteristics Same as Type 7C5. | | | | | | | | | |
| 14C7 | Pentode | 8-V | 12.6 | 0.15 | Amplifier | 100 | 1.0 | 100 | 5.7 | 1.8 | 395,000† | 2,275 | ..... | ..... | ..... |
| | | | | | Amplifier | 250 | 3.0 | 100 | 2.2 | 0.7 | 1.0 Meg.† | 1,575 | ..... | ..... | ..... |
| 14E6 | Duodiode Tri. | 8-W | 12.6 | 0.15 | Amplifier | 250 | 9.0 | ..... | 9.5 | ..... | 8,500 | 1,900 | 16 | ..... | ..... |
| 14F7 | Duodiode | 8-AC | 12.6 | 0.15 | Amplifier | 100 | 1.0 | ..... | 0.65 | ..... | 62,000† | 1,125 | 70 | ..... | ..... |
| | | | | | Amplifier | 250 | 2.0 | ..... | 2.3 | ..... | 44,000† | 1,600 | 70 | ..... | ..... |
| 14H7 | Pentode | 8-V | 12.6 | 0.15 | Amplifier | 100 | 1.0 | 100 | 8.2 | 3.3 | 250,000† | 3,800 | ..... | ..... | ..... |
| | | | | | Amplifier | 250 | 2.5 | 150 | 9.5 | 3.5 | 800,000† | 3,800 | ..... | ..... | ..... |
| 14J7 | Tri. Hexode | 8-AR | 12.6 | 0.15 | Mixer Osc. | Characteristics Same as Type 7J7. | | | | | | | | | |
| 14N7 | Duodiode | 8-AC | 12.6 | 0.30 | Amplifier (One Unit) | 90 | 0.0 | ..... | 10.0 | ..... | 6,700 | 3,000 | 20 | ..... | ..... |
| | | | | | Amplifier (One Unit) | 250 | 8.0 | ..... | 9.0 | ..... | 7,700 | 2,600 | 20 | ..... | ..... |
| 14Q7 | Heptode | 8-AL | 12.6 | 0.15 | Converter | 100 | 2.0 | 100 | 3.3 | 8.5 | 500,000 | 525A / Osc. Grid Resistor 20,000 | | | |
| | | | | | Converter | 250 | 2.0 | 100 | 3.5 | 8.5 | 1.0 Meg. | 550A / Osc. Grid Current 0.5 Ma. | | | |
| 14R7 | Diode-Pent. | 8-AE | 12.6 | 0.15 | Amplifier | 100 | 1.0 | 100 | 5.5 | 2.5 | 350,000† | 3,000 | ..... | ..... | ..... |
| | | | | | Amplifier | 250 | 1.0 | 100 | 5.7 | 2.1 | 1.0 Meg.† | 3,200 | ..... | ..... | ..... |
| 14S7 | Tri. Heptode | 8-BL | 12.6 | 0.15 | Mixer Osc. | Characteristics Same as Type 7S7. | | | | | | | | | |
| 14W7 | Pentode | 8-BJ | 12.6 | 0.225 | Amplifier | Characteristics Same as Type 7V7, Except Capacitances. | | | | | | | | | |
| 14Y4 | Duodiode | 5-AB | 12.6 | 0.30 | F. W. Rect. | 325 A-C Volts per Plate, RMS, 70 Ma. Output Current. Condenser Input to Filter. Choke Input to Filter. | | | | | | | | | |
| 15 | Pentode | 5-F | 2.0 | 0.22 | R-F Amp. | 67.5 | 1.5 | 67.5 | 1.85 | 0.3 | 630,000 | 710 | 450 | ..... | ..... |
| | | | | | R-F Amp. | 135 | 1.5 | 67.5 | 1.85 | 0.3 | 800,000 | 750 | 600 | ..... | ..... |
| 18 | Pentode | 6-B | 14.0 | 0.30 | Power Amp. | Characteristics Same as Type 6F6G. | | | | | | | | | |
| 19 | Duodiode | 6-C | 2.0 | 0.26 | Power Amp. | 135 | 0.0 | ..... | 5.0 | ..... | (Class B Operation) | | | 10,000† | 2,100 |
| | | | | | Power Amp. | 135 | 3.0 | ..... | 1.7 | ..... | (Class B Operation) | | | 10,000† | 1,900 |
| | | | | | Power Amp. | 135 | 6.0 | ..... | 0.1 | ..... | (Class B Operation) | | | 10,000† | 1,600 |
| 20 | Triode | 4-D | 3.3 | 0.132 | Power Amp. | 90 | 16.5 | ..... | 2.8 | ..... | 7,800 | 450 | 3.5 | 9,600 | 50 |
| | | | | | Power Amp. | 135 | 22.5 | ..... | 6.0 | ..... | 5,850 | 600 | 3.5 | 6,500 | 130 |
| 22 | Tetrode | 4-K | 3.3 | 0.132 | R-F Amp. | 135 | 1.5 | 67.5 | 3.7 | 1.3 | 250,000 | 500 | 125 | ..... | ..... |
| 24A, 24S | Tetrode | 5-E | 2.5 | 1.75 | R-F Amp. | 180 | 3.0 | 90.0 | 4.0 | 1.7 | 400,000 | 1,000 | 400 | ..... | ..... |
| | | | | | R-F Amp. | 250 | 3.0 | 90.0 | 4.0 | 1.7 | 600,000 | 1,050 | 630 | ..... | ..... |
| | | | | | Detector | 250* | 5.0† | 20 to 45 (Plate Current to be adjusted to 0.1 Ma. with no Input Signal) | | | | | | | |
| 25A6GT/G | Pentode | 7-S | 25.0 | 0.30 | Power Amp. | 95 | 15.0 | 95.0 | 20.0 | 4.0 | 45,000 | 2,000 | ..... | 4,500 | 900 |
| | | | | | Power Amp. | 135 | 20.0 | 135 | 37.0 | 8.0 | 35,000 | 2,450 | ..... | 4,000 | 2,000 |
| | | | | | Power Amp. | 160 | 18.0 | 120 | 39.0 | 6.5 | 42,000 | 2,375 | ..... | 5,000 | 2,200 |
| 25A7GT/G | Diode-Pent. | 8-F | 25.0 | 0.30 | H-W Rect. Power Amp. | 117 A-C Volts per Plate, RMS, 75 Ma. Output Current. | | | | | | | | | |
| | | | | | Power Amp. | 100 | 15.0 | 100 | 20.5 | 4.0 | 50,000 | 1,800 | ..... | 4,500 | 770 |
| 25AC5GT/G | Triode | 6-Q | 25.0 | 0.30 | Power Amp. Coupled Amp | 110 | +15 | ..... | 45.0 | ..... | 15,200 | 3,800 | 58 | ..... | ..... |
| | | | | | Power Amp. | 165 | Bias from 6AE5GT/G | 46.0 | Dynamic Coupled with 6AE5GT/G Driver | | | | | | |
| 25B6G | Pentode | 7-S | 25.0 | 0.30 | Power Amp. | 105 | 16.0 | 105 | 48.0 | 2.0 | 15,500 | 4,800 | ..... | 1,700 | 2,400 |
| | | | | | Power Amp. | 200 | 23.0 | 135 | 62.0 | 1.8 | 18,000 | 5,000 | ..... | 2,500 | 7,100 |
| 25B8GT | Pentode Tri. | 8-T | 25.0 | 0.15 | Pent. Amp. Tri.-Amp. | 100 | 3.0 | 100 | 7.5 | 2.0 | 185,000 | 2,000 | 370 | Pentode Section Triode Section | |
| | | | | | Tri.-Amp. | 100 | 1.0 | ..... | 0.6 | ..... | 75,000 | 1,500 | 112.5 | ..... | ..... |
| 25C6G | Tetrode | 7-AC | 25.0 | 0.30 | Power Amp. | Characteristics Same as Type 6Y6G. | | | | | | | | | |
| 25L6GT/G | Tetrode | 7-AC | 25.0 | 0.30 | Power Amp. | 110 | 7.5 | 110 | 49.0 | 4.0 | 13,000 | 9,000 | ..... | 2,000 | 2,100 |
| | | | | | Power Amp. | 200 | 8.0 | 110 | 50.0 | 2.0 | 30,000 | 9,500 | ..... | 3,000 | 4,300 |
| 25Y5 | Duodiode | 6-E | 25.0 | 0.30 | H-W Rect. | 235 A-C Volts per Plate, RMS, 75 Ma. Output Current per Plate. | | | | | | | | | |
| 25Z5 | Duodiode | 6-E | 25.0 | 0.30 | Doubler | Characteristics Same as Type 25Z6GT/G. | | | | | | | | | |
| 25Z6GT/G | Duodiode | 7-Q | 25.0 | 0.30 | Doubler H-W Rect. | 117 A-C Volts per Plate, RMS, 75 Ma. Output Current per Plate. 235 A-C Volts, RMS, 75 Ma. Output Current per Plate. | | | | | | | | | |

*Applied through 250,000 ohms. †Per Tube or Section—No Signal. ‡Plate and Target Supply Voltage. **Triode Operation. ††Applied through 200,000 ohms. †††With Average Power Input of 320 Mw. Grid to Grid. †Pentode Operation. ††For two tubes with 40 volts RMS applied to each grid. †††Applied through 20,000 ohms. †Approximate. †Conversion Conductance 150 Volts RMS applied to two grids.

CHARACTERISTICS

| Type | Class | Base | Filament Rating | | Use | Plate Volts | Negative Grid Volts | Screen Volts | Plate Current Ma. | Screen Current Ma. | Plate Resistance Ohms | Micromhos Mutual Conductance | Amplification Factor | Ohms Load for Stated Power Output | Undistorted Power Output Milli-watts |
|-------------------|--------------|------|-----------------|-------|-----------------------|--|--|---|------------------------------------|---------------------------|--|----------------------------------|--------------------------|-----------------------------------|--------------------------------------|
| | | | Volts | Amps. | | | | | | | | | | | |
| 26 | Triode | 4-D | 1.5 | 1.05 | Amplifier | 90 135 180 | 7.0 10.0 14.5 | ..... | 2.9 5.5 6.2 | ..... | 8,900 7,600 7,300 | 935 1,100 1,150 | 8.3 8.3 8.3 | ..... | ..... |
| 27, 27S | Triode | 5-A | 2.5 | 1.75 | Amplifier | 90 135 180 250 | 6.0 9.0 13.5 21.0 | ..... | 3.0 4.7 5.0 5.2 | ..... | 10,000 9,000 9,000 9,250 | 900 1,000 1,000 975 | 9.0 9.0 9.0 9.0 | ..... | ..... |
| | | | | | Detector | 250 | 30.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 28D7 | Duo-Tetrode | 8BS | 28.0 | .400 | Amplifier | 28 | 3.5 | 28 | 25 | 3.0 | 4,200 | 3,400 | ..... | 6,000 | 225 |
| 28Z5 | Double Diode | 6BJ | 28.0 | .240 | F. W. Rect. | 325 A. C. Volts per plate R. M. S. | 100 Ma Output Current | Condenser Input to Filter. | 450 A. C. Volts per plate R. M. S. | 100 Ma Output Current | Choke Input to Filter. | ..... | ..... | 1,500 | 600 |
| 30 | Triode | 4-D | 2.0 | 0.06 | Det.-Amp. | 90 135 180 | 4.5 9.0 13.5 | ..... | 2.5 3.0 3.1 | ..... | 11,000 10,300 10,300 | 850 900 900 | 9.3 9.3 9.3 | ..... | ..... |
| 31 | Triode | 4-D | 2.0 | 0.13 | Power Amp. | 135 180 | 22.5 30.0 | ..... | 8.0 12.3 | ..... | 4,100 3,600 | 925 1,050 | 3.8 3.8 | 7,000 5,700 | 185 375 |
| 32 | Tetrode | 4-K | 2.0 | 0.06 | R-F Amp. | 135 180 | 3.0 3.0 | 67.5 67.5 | 1.7 1.7 | 0.4 0.4 | 950,000 1.2 Meg. | 640 650 | 610 780 | ..... | ..... |
| | | | | | Detector | 180 | 6.0 | 67.5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 32L7GT | Diode, Tet. | 8-Z | 32.5 | 0.30 | Rectifier Power Amp. | 125 RMS 110 | 7.5 | ..... | 60 40 | 3.0 | ..... | ..... | 81 | 2,600 | 1,000 |
| 33 | Pentode | 5-K | 2.0 | 0.26 | Power Amp. | 135 180 | 13.5 18.0 | 135 180 | 14.5 22.0 | 3.0 5.0 | 50,000 55,000 | 1,450 1,700 | 70 90 | 7,000 6,000 | 700 1,400 |
| 34 | Pentode | 4-M | 2.0 | 0.06 | R-F Amp. | 67.5 135 180 | 3.0 3.0 3.0 | 67.5 67.5 67.5 | 2.7 2.8 2.8 | 1.1 1.0 1.0 | 400,000 600,000 1 Meg. | 560 600 620 | 224 360 620 | ..... | ..... |
| 35/51, 35S/51S | Tetrode | 5-E | 2.5 | 1.75 | R-F Amp. | 180 250 250* | 3.0 3.0 1.0 | 90.0 90.0 45 to 67.5 | 6.3 6.5 0.5 | 2.5 2.5 | 300,000 400,000 2 Meg. | 1,020 1,050 | 305 420 | ..... | ..... |
| | | | | | A-F Amp. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 35A5 | Tetrode | 6-AA | 35.0 | 0.15 | Power Amp. | 110 200 | 7.5 8.0 | 110 110 | 40.0 41.0 | 3.0 2.0 | 14,000 40,000 | 5,800 | ..... | 2,500 4,500 | 1,500 3,300 |
| 35L6GT/G | Tetrode | 7-AC | 35.0 | 0.15 | Power Amp. | 110 200 | 7.5 8.0 | 110 110 | 40.0 41.0 | 3.0 2.0 | 14,000 40,000 | 5,800 5,900 | ..... | 2,500 4,500 | 1,500 3,300 |
| 35Y4 | Diode | 5-AL | 35.0 | 0.15 | H-W Rect. | 235 Max. A-C Volts, RMS, | 60 Ma. Output Current with Panel Lamp. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 35Z3 | Diode | 4-Z | 35.0 | 0.15 | H-W Rect. | 235 Max. A-C Volts, RMS, | 100 Ma. Output Current without Panel Lamp. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 35Z4GT | Diode | 5-AA | 35.0 | 0.15 | H-W Rect. | 117 A-C Volts, RMS, | 100 Ma. Output Current. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 35Z5GT/G | Diode | 6-AD | 35.0 | 0.15 | H-W Rect. | Characteristics Same as Type 40Z5/45Z5GT. | | | | | | | | | |
| 36 | Tetrode | 5-E | 6.3 | 0.30 | R-F Amp. | 135 180 250 250 | 1.5 3.0 3.0 6.0 | 67.5 90.0 90.0 20 to 25 | 2.8 3.1 3.2 | Not Over 1/4 of Plate Ma. | 575,000 500,000 550,000 | 1,000 1,050 1,080 | 475 525 595 | ..... | ..... |
| | | | | | Detector | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 37 | Triode | 5-A | 6.3 | 0.30 | Amplifier | 135 180 250 | 9.0 13.5 18.0 | ..... | 4.1 4.3 7.5 | ..... | 10,000 10,200 8,400 | 925 900 1,100 | 9.2 9.2 9.2 | ..... | ..... |
| 38 | Pentode | 5-F | 6.3 | 0.30 | Power Amp. | 135 180 250 | 13.5 18.0 25.0 | 135 180 250 | 9.0 14.0 22.0 | 1.5 2.4 3.8 | 130,000 110,000 100,000 | 925 1,050 1,200 | 120 120 120 | 13,500 11,600 10,000 | 550 1,000 2,500 |
| 39/44 | Pentode | 5-F | 6.3 | 0.30 | R-F Amp. | 90 180 250 | 3.0 3.0 3.0 | 90.0 90.0 90.0 | 5.6 5.8 5.8 | 1.6 1.4 1.4 | 375,000 750,000 1 Meg. | 960 1,000 1,050 | 360 750 1,050 | ..... | ..... |
| | | | | | A-F Amp. | 250* | 1.0 | 67.5 | 0.5 | ..... | 2 Meg. | ..... | ..... | ..... | ..... |
| 40Z5/ 45Z5GT | Diode | 6-AD | 45.0 | 0.15 | H-W Rect. | 117 A-C Volts, RMS, 100 Ma. Output Current without Panel Lamp Connected, or 60 Ma. with Panel Lamp. | | | | | | | | | |
| 41 | Pentode | 6-B | 6.3 | 0.40 | Power Amp. | Characteristics Same as Type 6K6G. | | | | | | | | | |
| 42 | Pentode | 6-B | 6.3 | 0.65 | Power Amp. | Characteristics Same as Type 6F6G. | | | | | | | | | |
| 43 | Pentode | 6-B | 25.0 | 0.30 | Power Amp. | Characteristics Same as Type 25A6GT/G. | | | | | | | | | |
| 45 | Triode | 4-D | 2.5 | 1.50 | Power Amp. | 180 250 275 | 31.5 50.0 56.0 | ..... | 31.0 34.0 36.0 | ..... | 1,650 1,610 1,700 | 2,125 2,175 2,050 | 3.5 3.5 3.5 | 2,700 3,900 4,600 | 830 1,600 2,000 |
| 46 | Tetrode | 5-C | 2.5 | 1.75 | Power Amp. | 250 300 400 | 33.0 0.0 0.0 | Tie Gs to P Tie Gs to G Tie Gs to G | 22.0 4.0 6.0 | ..... | 2,380 (Class B Operation) | 2,350 (Class B Operation) | 5.6 | 6,400 5,200 5,800 | 1,250 16,000 20,000 |
| 47 | Pentode | 5-B | 2.5 | 1.75 | Power Amp. | 250 | 16.5 | 250 | 31.0 | 6.0 | 60,000 | 2,500 | 150 | 7,000 | 2,700 |
| 48 | Tetrode | 6-A | 30.0 | 0.40 | Power Amp. | 95 125 | 20.0 22.5 | 95.0 100 | 52.0 52.0 | 12.0 12.0 | 4,000 11,000 | 3,900 3,900 | 15.6 43 | 1,500 1,500 | 2,000 3,000 |
| 49 | Tetrode | 5-C | 2.0 | 0.12 | Power Amp. | 135 180 | 20.0 0.0 | Tie Gs to P Tie Gs to G | 6.0 2.0 | ..... | 4,175 (Two Tubes Class B Operation) | 1,125 | 4.7 | 11,000 12,000 | 170 3,500 |
| 50 | Triode | 4-D | 7.5 | 1.25 | Power Amp. | 300 350 400 450 | 54.0 63.0 70.0 84.0 | ..... | 35.0 45.0 55.0 55.0 | ..... | 2,000 1,900 1,800 1,800 | 1,900 2,000 2,100 2,100 | 3.8 3.8 3.8 3.8 | 4,600 4,100 3,670 4,350 | 1,600 2,400 3,400 4,600 |
| 50A5 | Tetrode | 6-AA | 50.0 | 0.15 | Power Amp. | 110 200 | 7.5 8.0 | 110 110 | 49.0 50.0 | 4.0 1.5 | 10,000 35,000 | 8,200 8,250 | ..... | 2,000 3,000 | 2,100 4,300 |
| 50C6G | Tetrode | 7-AC | 50.0 | 0.15 | Power Amp. | Characteristics Same as Type 25C6G. | | | | | | | | | |
| 50L6GT | Tetrode | 7-AC | 50.0 | 0.15 | Power Amp. | Characteristics Same as Type 25L6GT. | | | | | | | | | |
| 50Y6GT/G | Duodode | 7-Q | 50.0 | 0.15 | F-W Rect. | Characteristics Same as Type 25Z6GT/G. | | | | | | | | | |
| 50Z7G | Duodode | 8-AN | 50.0 | 0.15 | Doubler H-W Rect. | 117 A-C Volts per Plate, RMS, 65 Ma. Output Current per Plate. With Current passing thru Panel Lamp Section. | | | | | | | | | |
| 53 | Duotriode | 7-B | 2.5 | 2.00 | Power Amp. | 235 A-C Volts, RMS, 65 Ma. Output Current. | | | | | | | | | |
| 55, 55S | Duodode Tri. | 6-G | 2.5 | 1.00 | Det.-Amp. | Characteristics Same as Type 6A6. | | | | | | | | | |
| 56, 56S | Triode | 5-A | 2.5 | 1.00 | Amplifier Detector | 250 250 | 13.5 20.0 | ..... | 5.0 | ..... | 9,500 | 1,450 | 13.8 | ..... | ..... |
| | | | | | Amplifier | (Plate Current to be adjusted to 0.2 Ma. with no Input Signal) | | | | | | | | | |
| 56AS | Triode | 5-A | 6.3 | 0.40 | Amplifier | Characteristics Same as Type 56. | | | | | | | | | |
| 57, 57S | Pentode | 6-F | 2.5 | 1.00 | Amplifier Detector | 100 250 250* | 3.0 3.0 4.3 | 100 100 100 | 2.0 2.0 | 0.5 0.5 | 1 Meg. 1 Meg. | 1,185 1,225 | ..... | ..... | ..... |
| | | | | | Amplifier | (Plate Current to be adjusted to 0.1 Ma. with no Input Signal) | | | | | | | | | |
| 57AS | Pentode | 6-F | 6.3 | 0.40 | Amplifier | Characteristics Same as Type 57. | | | | | | | | | |
| 58, 58S | Pentode | 6-F | 2.5 | 1.00 | Amplifier | 100 250 | 3.0 3.0 | 100 100 | 8.0 8.2 | 2.2 2.0 | 250,000 800,000 | 1,500 1,600 | ..... | ..... | ..... |
| 58AS | Pentode | 6-F | 6.3 | 0.40 | Amplifier | Characteristics Same as Type 58. | | | | | | | | | |

*Applied through 250,000 ohms.
†Per Tube or Section—No Signal.
‡Plate and Target Supply Voltage.

**Triode Operation.
‡‡Applied through 200,000 ohms.
‡‡‡With Average Power Input of 20 Mw. Grid to Grid.

‡Pentode Operation.

¶Plate to Plate.

††Approximate.

‡‡Conversion Conductance

‡‡‡150 Volts RMS applied to two grids

‡‡‡For two tubes with 40 volts RMS applied to each grid.
‡‡‡‡Applied through 20,000 ohms.

SYLVANIA AVERAGE CHARACTERISTICS

| Type | Class | Base | Filament Ratings | | Use | Plate Volts | Negative Grid Volts | Screen Volts | Plate Current Ma. | Screen Current Ma. | Plate Resistance Ohms | Micromhos Mutual Conductance | Amplification Factor | Ohms Load for Stated Power Output | Undistorted Power Output Milliwatts |
|---------------|--------------------------------|------|------------------|-------|----------------------|---|----------------------------|----------------------------|--|--------------------|--|------------------------------|-----------------------------|-----------------------------------|-------------------------------------|
| | | | Volts | Amps. | | | | | | | | | | | |
| 59 | Pentode | 7-A | 2.5 | 2.00 | Power Amp. | 250** | 28.0 | Tie Gs to P | 26.0 | ..... | 2,300 | 2,600 | 6.0 | 5,000 | 1,250 |
| | | | | | | 250† | 18.0 | 250 | 35.0 | ..... | 40,000 | 2,500 | 100 | 6,000 | 3,000 |
| | | | | | | 300 | 0.0 | Tie Gs to G and Su to P | 20.0 | ..... | (Class B Operation Two Tubes) | | | 4,600† | 15,000†† |
| | | | | | | 400 | 0.0 | | 26.0 | ..... | (Class B Operation Two Tubes) | | | 6,000† | 20,000†† |
| 70L7GT | Diode-Tetrode | 8-AA | 70.0 | 0.15 | Rectifier Amplifier | 117 A-C Volts, RMS, 70 Ma. Output Current. | Condenser Input to Filter. | | | | | | | | |
| | | | | | | 110 | 7.5 | 110 | 40 | 3.0 | 15,000 | 7,500 | ..... | 2,000 | 1,800 |
| 71A | Triode | 4-D | 5.0 | 0.25 | Power Amp. | 90 | 16.5 | ..... | 10.0 | ..... | 2,170 | 1,400 | 3.0 | 3,000 | 195 |
| | | | | | | 135 | 27.0 | ..... | 17.3 | ..... | 1,820 | 1,650 | 3.0 | 3,000 | 400 |
| | | | | | | 180 | 40.5 | ..... | 20.0 | ..... | 1,750 | 1,700 | 3.0 | 4,800 | 790 |
| 75, 75S | Duodiode Tri. | 6-G | 6.3 | 0.30 | Det.-Amp. | 250 | 2.0 | ..... | 0.9 | ..... | 91,000 | 1,100 | 100 | ..... | ..... |
| 76 | Triode | 5-A | 6.3 | 0.30 | Amplifier Detector | 250 | 13.5 | ..... | 5.0 | ..... | 9,500 | 1,450 | 13.8 | ..... | ..... |
| | | | | | | 250 | 20.0† | ..... | (Plate Current to be adjusted to 0.2 Ma. with no Input Signal) | | | | | | |
| 77 | Pentode | 6-F | 6.3 | 0.30 | Amplifier | 100 | 1.5 | 60.0 | 1.7 | 0.4 | 600,000† | 1,100 | ..... | ..... | ..... |
| | | | | | | 250 | 3.0 | 100 | 2.3 | 0.5 | 1.0 Meg.+ | 1,250 | ..... | ..... | ..... |
| 78 | Pentode | 6-F | 6.3 | 0.30 | Amplifier | 90 | 3.0 | 90.0 | 5.4 | 1.3 | 300,000† | 1,275 | ..... | ..... | ..... |
| | | | | | | 180 | 3.0 | 75.0 | 4.0 | 1.0 | 1 Meg.† | 1,100 | ..... | ..... | ..... |
| | | | | | | 250 | 3.0 | 100 | 7.0 | 1.7 | 800,000† | 1,450 | ..... | ..... | ..... |
| 79 | Duotriode | 6-H | 6.3 | 0.60 | Power Amp. | 180 | 0.0 | ..... | 7.5‡ | ..... | (Class B Operation) | ..... | ..... | 7,000† | 5,500 |
| | | | | | | 250 | 0.0 | ..... | 10.5‡ | ..... | (Class B Operation) | ..... | ..... | 14,000† | 8,000 |
| 80 | Duodiode | 4-C | 5.0 | 2.00 | F-W Rect. | 350 A-C Volts per Plate, RMS, 125 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| | | | | | | 500 A-C Volts per Plate, RMS, 125 Ma. Output Current. | | Choke Input to Filter. | | | | | | | |
| 81 | Diode | 4-B | 7.5 | 1.25 | H-W Rect. | 700 A-C Volts per Plate, RMS, 85 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| 82 | Duodiode | 4-C | 2.5 | 3.00 | F-W Rect. | 450 A-C Volts per Plate, RMS, 115 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| 83 | Duodiode | 4-C | 5.0 | 3.00 | F-W Rect. | 450 A-C Volts per Plate, RMS, 225 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| 83V | Duodiode | 4-AD | 5.0 | 2.00 | F-W Rect. | 375 A-C Volts per Plate, RMS, 175 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| 84/6Z4 | Duodiode | 5-D | 6.3 | 2.50 | F-W Rect. | 325 A-C Volts per Plate, RMS, 60 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| 85 | Duodiode Tri. | 6-G | 6.3 | 0.30 | Det.-Amp. | Characteristics Same as Type 6V7G. | | | | | | | | | |
| 85AS | Duodiode Tri. | 6-G | 6.3 | 0.30 | Det.-Amp. | 250 | 9.0 | ..... | 4.5 | ..... | 16,000 | 1,250 | 20 | ..... | ..... |
| 89 | Pentode | 6-F | 6.3 | 0.40 | Power Amp. | 160** | 20.0 | Gs & Su to P | 17.0 | ..... | 3,300 | 1,425 | 4.7 | 7,000 | 300 |
| | | | | | | 180† | 18.0 | 180 | 20.0 | ..... | 80,000 | 1,550 | 125 | 8,000 | 1,500 |
| | | | | | | 180 | 0.0 | ..... | 3.0‡ | ..... | Class B Opern. Tie Su to P & Gs to G (Two Tubes) | ..... | ..... | 9,400† | 3,500 |
| VR-90-105-150 | Now changed to 0B3, 0C3 & 0D3. | | | | | | | | | | | | | | |
| V99 | Triode | 4-E | 3.3 | 0.063 | Det.-Amp. | 90 | 4.5 | ..... | 2.5 | ..... | 15,500 | 425 | 6.6 | ..... | ..... |
| X99 | Triode | 4-D | 3.3 | 0.063 | Det.-Amp. | 90 | 4.5 | ..... | 2.5 | ..... | 15,500 | 425 | 6.6 | ..... | ..... |
| 117L7/M7GT | Diode-Tet. | 8-AO | 117 | 0.09 | H-W Rect. Power Amp. | 117 A-C Volts, RMS, 75 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| | | | | | | 105 | 5.2 | 105 | 43 | 4.0 | 17,000† | 5,300 | ..... | 4,000 | 850 |
| 117N7GT | Diode-Tet. | 8-AV | 117 | 0.09 | H-W Rect. Power Amp. | 117 A-C Volts, RMS, 75 Ma. Output Current. | | Condenser Input to Filter. | | | | | | | |
| | | | | | | 100 | 6.0 | 100 | 51 | 5.0 | 16,000† | 7,000 | ..... | 3,000 | 1,200 |
| 117Z6GT/G | Duodiode | 7-Q | 117 | 0.075 | Doubler | 117 A-C Volts per Plate, RMS, 60 Ma. Output Current per Plate. | | | | | | | | | |
| 182B/482B | Triode | 4-D | 5.0 | 1.25 | Power Amp. | 250 | 35.0 | ..... | 20.0 | ..... | 2,500 | 2,000 | 5.0 | 4,500 | 1,350 |
| 183/483 | Triode | 4-D | 5.0 | 1.25 | Power Amp. | 250 | 65.0 | ..... | 20.0 | ..... | 2,000 | 1,500 | 3.0 | 4,500 | 1,800 |
| 210-T | Triode | 4-D | 7.5 | 1.25 | Power Amp. | (Standard Type 10 with Ceramic Base, See Type 10 Characteristics) | | | | | | | | | |
| 485 | Triode | 5-A | 3.0 | 1.25 | Det.-Amp. | 180 | 9.0 | ..... | 5.8 | ..... | 8,900 | 1,400 | 12.5 | ..... | ..... |
| 864 | Triode | 4-D | 1.1 | 0.25 | Det.-Amp. | 90 | 4.5 | ..... | 2.9 | ..... | 13,500 | 610 | 8.2 | ..... | ..... |
| | | | | | | 135 | 9.0 | ..... | 3.5 | ..... | 12,700 | 645 | 8.2 | ..... | ..... |
| 950 | Pentode | 5-K | 2.0 | 0.12 | Power Amp. | 135 | 16.5 | 135 | 7.0 | 2.0 | 125,000 | 1,000 | 125 | 13,500 | 575 |
| 1221 | Pentode | 6-F | 6.3 | 0.30 | Amplifier | Special Non-Microphonic Tube, Characteristics Same as Type 6C6. | | | | | | | | | |
| 1223 | Pentode | 7-R | 6.3 | 0.30 | Amplifier | "G" Equivalent of Type 1221 Above. | | | | | | | | | |
| 1231 | Pentode | 8-V | 6.3 | 0.45 | Pen.-Amp. Tet.-Amp. | 300 | ..... | 150 | 10.0 | 2.5 | 700,000 | 5,500 | 3,850 Bias Res. = 200 Ohms. | | |
| | | | | | | 300 | ..... | 150 | 12.0 | 0.5 | 540,000 | 6,500 | 3,500 Bias Res. = 200 Ohms. | | |
| 1612 | Heptode | 7-T | 6.3 | 0.30 | Mixer Amplifier | 250 | 6.0 | 150 | 3.3 | 9.2 | 1 Meg.+ | 350A | (G3 = Neg. 15 V.) | | |
| | | | | | | 250 | 3.0 | 100 | 5.3 | 6.5 | 600,000 | 1,100 | (G3 = Neg. 3.0 V.) | | |
| XXD | Duotriode | 8-AC | 12.6 | 0.15 | Amplifier | 250 | 10.0 | ..... | 9.0 | ..... | 7,600 | 2,100 | 16 | (One Section) | |
| XXL | Triode | 5-AC | 6.3 | 0.30 | Amplifier | 100 | 0.0 | ..... | 10.0 | ..... | 7,000 | 3,600 | 25 | ..... | ..... |
| | | | | | | 250 | 8.0 | ..... | 8.0 | ..... | 8,700 | 2,300 | 20 | ..... | ..... |

*Applied through 250,000 ohms. †Per Tube or Section—No Signal. ‡Plate and Target Supply Voltage. **Triode Operation. ††Applied through 200,000 ohms. ‡‡With Average Power Input of 320 Mw. Grid to Grid. †Plate to Plate. †††For two tubes with 40 volts RMS applied to each grid. ‡‡‡Applied through 20,000 ohms. †Approximate. †††Conversion Conductance 150 Volts RMS applied to two grids.

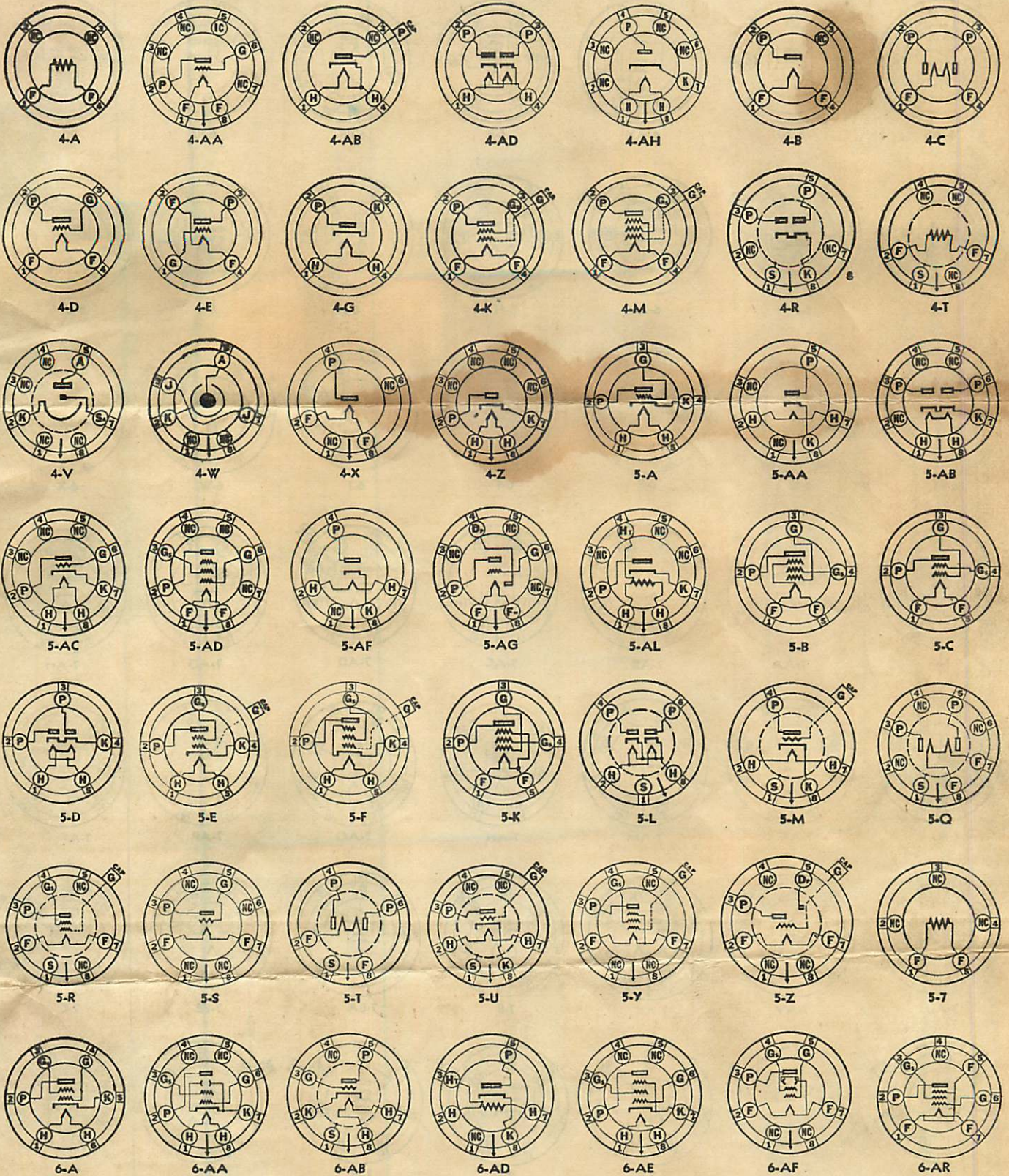
SYLVANIA PANEL LAMP CHARACTERISTICS

| Type No. | Cir-cult Volts | Design | | Bead Color | Bulb Style | Mini-ature Base | Usual Service | Type No. | Type No. | Cir-cult Volts | Design | | Bead Color | Bulb Style | Mini-ature Base | Usual Service | Type No. |
|----------|----------------|--------|------|------------|------------|-----------------|-------------------------------|----------|----------|----------------|--------|------|------------|------------|-----------------|----------------------------|----------|
| | | Volts | Amp. | | | | | | | | Volts | Amp. | | | | | |
| S40 | 6-8 | 6.3 | 0.15 | Brown | T-3¼ | Screw | Radio Dials | S40 | *S49 | 2.0 | 2.0 | 0.06 | Pink | T-3¼ | Bayonet | Battery Set Dials | *S49 |
| S41 | 2.5 | 2.5 | 0.50 | White | T-3¼ | Screw | Radio Dials | S41 | S50 | 6-8 | 7.5 | 0.20 | White | G-3½ | Screw | Auto Sets, Flash Lights | S50 |
| S42 | 3.2 | 3.2 | 0.35 | Green | T-3¼ | Screw | Radio Dials | S42 | S51 | 6-8 | 7.5 | 0.20 | White | G-3½ | Bayonet | Auto Sets, Auto Panels | S51 |
| S43 | 2.5 | 2.5 | 0.50 | White | T-3¼ | Bayonet | Radio Dials and Tuning Meters | S43 | S55 | 6-8 | 6.5 | 0.40 | White | G-4½ | Bayonet | Auto Sets, Parking Lights | S55 |
| S44 | 6-8 | 6.3 | 0.25 | Blue | T-3¼ | Bayonet | Radio Dials and Tuning Meters | S44 | S292 | 2.9 | 2.9 | 0.17 | White | T-3¼ | Screw | Radio Dials | S292 |
| S45 | 3.2 | 3.2 | 0.35 | White | T-3¼ | Bayonet | Radio Dials | S45 | S292A | 2.9 | 2.9 | 0.17 | White | T-3¼ | Bayonet | Radio Dials, Coin Machines | S292A |
| S46 | 6-8 | 6.3 | 0.25 | Blue | T-3¼ | Screw | Radio Dials and Tuning Meters | S46 | S1455 | 18.0 | 18.0 | 0.25 | Brown | G-5 | Screw | Coin Machines | S1455 |
| *S47 | 6-9 | 6.3 | 0.15 | Brown | T-3¼ | Bayonet | Radio Dials | *S47 | S1455A | 18.0 | 18.0 | 0.25 | Brown | G-5 | Bayonet | Coin Machines | S1455A |
| S48 | 2.0 | 2.0 | 0.06 | Pink | T-3¼ | Screw | Battery Set Dials | S48 | | | | | | | | | |

*Sylvania Types S47 and S49 are interchangeable with Types 40A and 49A, respectively, in other brands.

TUBE AND BASE DIAGRAMS

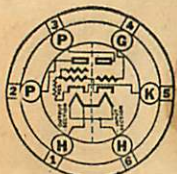
(Viewed From Bottom of Base—RMA Numbering System)



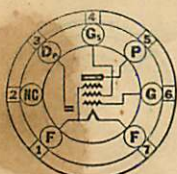
SYMBOLS: A—Anode, A1—Anode 1, A2—Anode 2, D1—Deflector 1, D2—Deflector 2, D3—Deflector 3, D4—Deflector 4, Dp—Diode Plate, F—Filament, Fc—Filament Center, G—Control Grid, GA—Anode Grid, GM—Modulator Grid, Go—Oscillator Grid, Gs—Screen Grid, H—Heater, Hc—Heater Center, Ht—Heater Tap, IC—Internal Connection, IS—Internal Shield, J—Jumper, K—Cathode, NC—No Connection, P—Plate, Rc—Ray Control, S—Metal Shell, SA—Starter Anode, Su—Suppressor Grid, T—Target, XS—External Shield, □—Top Cap, —>—Locating Pin.

TUBE AND BASE DIAGRAMS

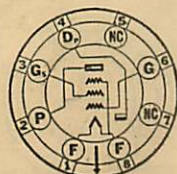
(Viewed From Bottom of Base—RMA Numbering System)—Continued



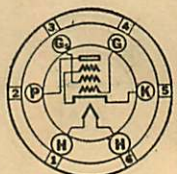
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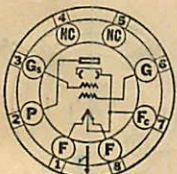
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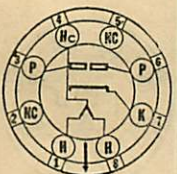
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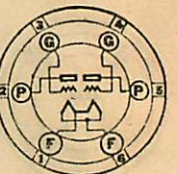
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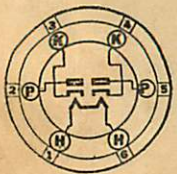
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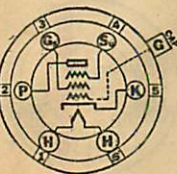
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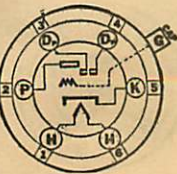
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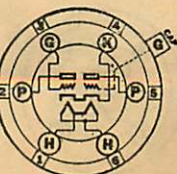
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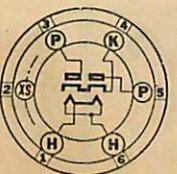
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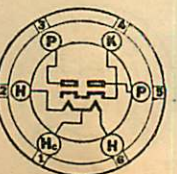
6-G



6-H



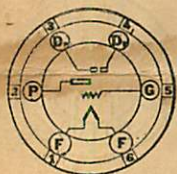
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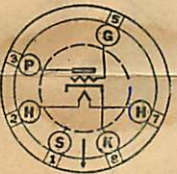
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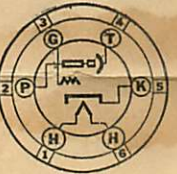
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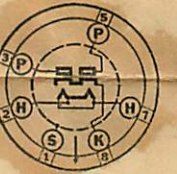
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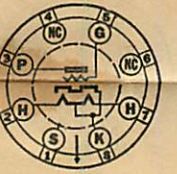
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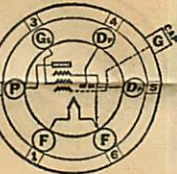
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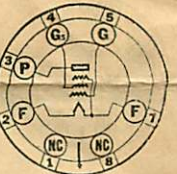
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6-T



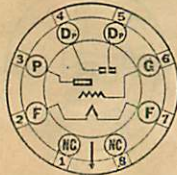
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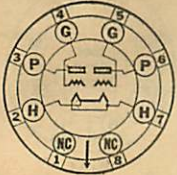
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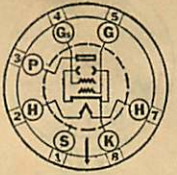
7-A



7-AA



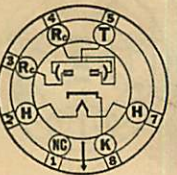
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7-AC



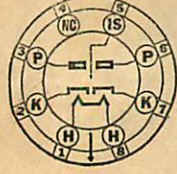
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7-AG



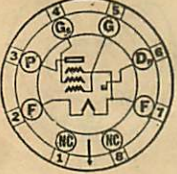
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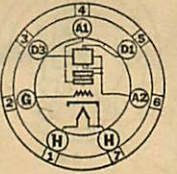
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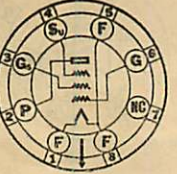
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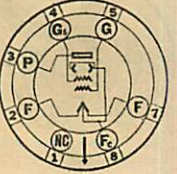
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7-AN



7-AO



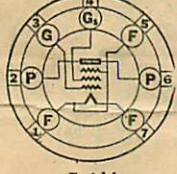
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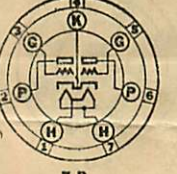
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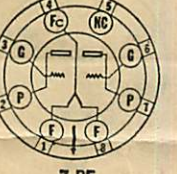
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7-B



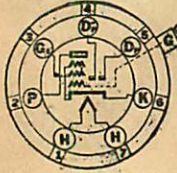
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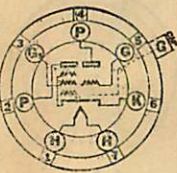
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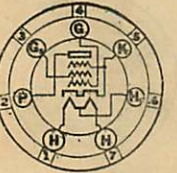
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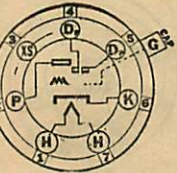
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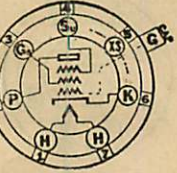
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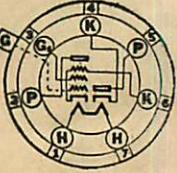
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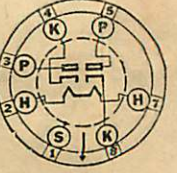
7-G



7-H



7-K

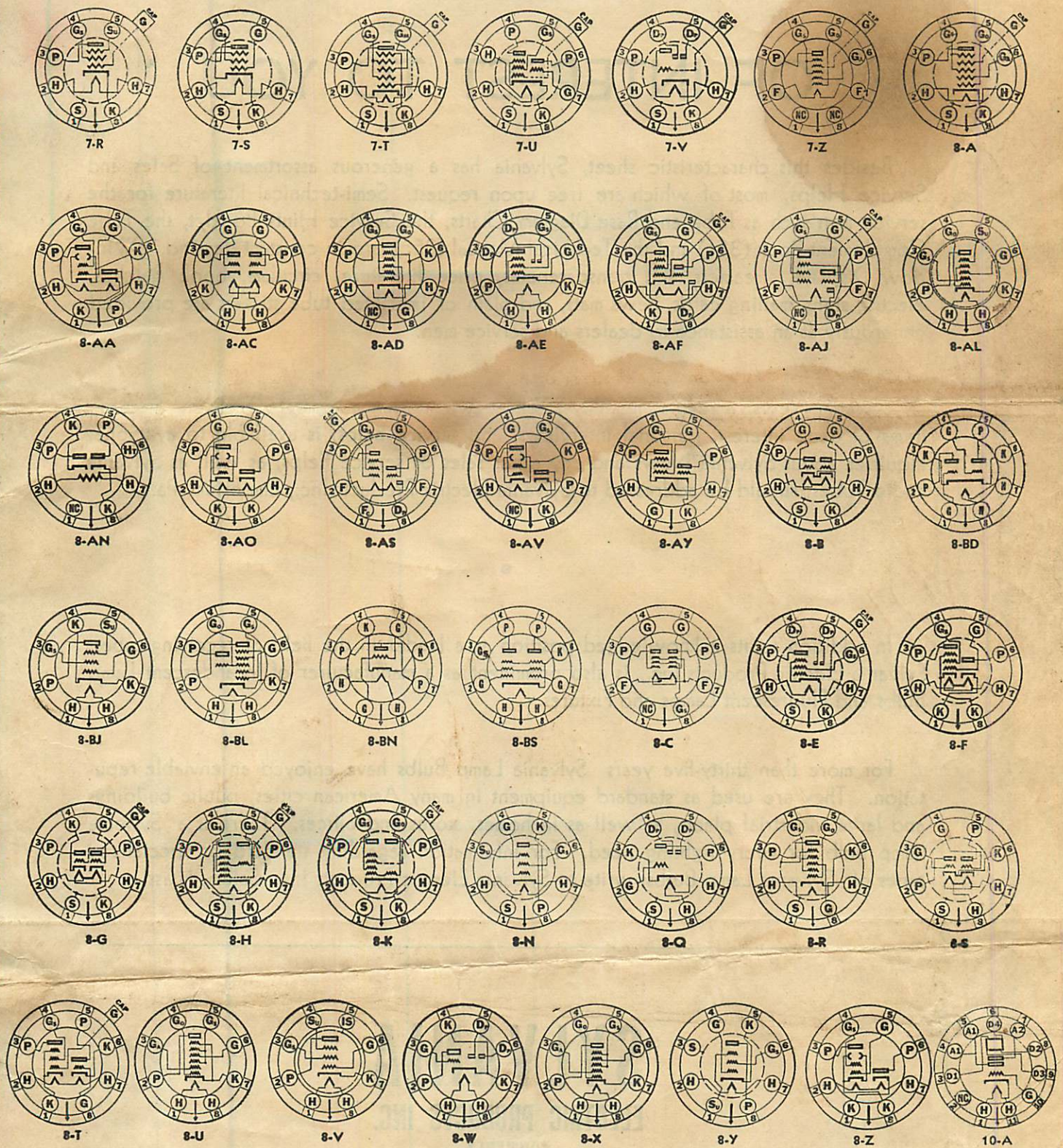


7-Q

SYMBOLS: A—Anode, A1—Anode 1, A2—Anode 2, D1—Deflector 1, D2—Deflector 2, D3—Deflector 3, D4—Deflector 4, Dp—Diode Plate, F—Filament, Fc—Filament Center, G—Control Grid, GA—Anode Grid, GM—Modulator Grid, Go—Oscillator Grid, Gs—Screen Grid, H—Heater, Hc—Heater Center, Ht—Heater Tap, IC—Internal Connection, IS—Internal Shield, J—Jumper, K—Cathode, NC—No Connection, P—Plate, Rc—Ray Control, S—Metal Shell, SA—Starter Anode, Su—Suppressor Grid, T—Target, XS—External Shield, □—Top Cap, →—Locating Pin.

TUBE AND BASE DIAGRAMS

(Viewed From Bottom of Base—RMA Numbering System)—Continued



SYMBOLS: A—Anode, A1—Anode 1, A2—Anode 2, D1—Deflector 1, D2—Deflector 2, D3—Deflector 3, D4—Deflector 4, Dp—Diode Plate, F—Filament, Fc—Filament Center, G—Control Grid, GA—Anode Grid, GM—Modulator Grid, Go—Oscillator Grid, Gs—Screen Grid, H—Heater, Hc—Heater Center, Ht—Heater Tap, IC—Internal Connection, IS—Internal Shield, J—Jumper, K—Cathode, NC—No Connection, P—Plate, Rc—Ray Control, S—Metal Shell, SA—Starter Anode, Su—Suppressor Grid, T—Target, XS—External Shield, □—Top Cap, —> Locating Pin.

OF INTEREST TO YOU

Besides this characteristic sheet, Sylvania has a generous assortment of Sales and Service Helps, most of which are free upon request. Semi-technical literature for the service man such as Tube and Base Diagram Charts, the Service Hints Booklet, the Tube Complement Book (35c) and the Technical Manual (35c), are in constant demand. Window Displays, streamers and transparencies, price literature, circulars, book matches, electric signs, mailing cards, news mats, and plain or imprinted tube stickers are provided generously as an assistance to dealers and service men.

Sylvania News, a regular monthly publication featuring a separate Technical Section, items of trade interest, personal interviews, and service helps, is available to everyone. Inquiries about Sylvania News and any other sales or service helps, as well as Sylvania Radio Tubes, should be addressed to Sylvania Electric Products Inc., Emporium, Pa.

In addition to its acknowledged position as a leader in the field of receiving tubes, Sylvania Electric Products Inc., is also prominent as a manufacturer of Incandescent Lamp Bulbs and Fluorescent Lamps and Fixtures.

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