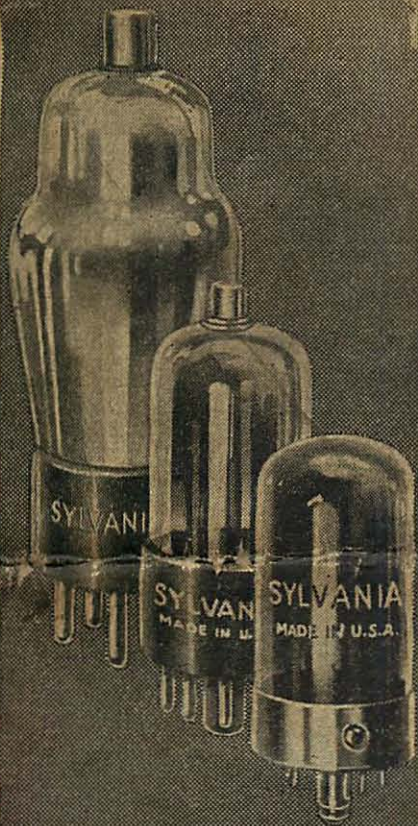


Sylvania

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 Milliwatts			
			Volts	Amps.														
0A4G	Triode	4-V	.....	.....	Relay Tube	Peak Cathode Ma. = 100. D-C Cathode Ma. = 25 Max.	.....	.....	.....	.....	.....	.....	.....	.....	.....
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.															
0T4	Triode	4-D	5.0	0.25	Amplifier	90 135	4.5 9.0	.....	2.5 3.0	.....	11,000 10,000	795 800	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	.....	25,000 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	.....	.....	.....
1B5/25S	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 1.5	2.5 2.0	600,000 700,000	300A 325A	(G2 = 135 V. □ Max. 3.1 Ma.) (G2 = 180 V. □ Max. 4.0 Ma.)					
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 .....	.....	16,000	310		
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 .....	.....	16,000	310		
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	Duotriode	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	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	.....	.....	
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	Duotriode	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	.....	.....	.....
1N5G, 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
 †Per Tube or Section—No Signal. ††Applied through 200,000 ohms. †††For two tubes with 40 volts RMS applied to each grid. †††150 Volts RMS applied to two grids.
 †Plate and Target Supply Voltage. ††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	0.0	45	1.9	0.7	350,000	700	.....	.....	.....
1T5GT	Tetrode	6-AF	1.4	0.05	Power Amp.	90	0.0	67.5	6.5	1.4	500,000	900	.....	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	45.0	.....	60.0	.....	800	5,250	4.2	2,500	3,500
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	Duodl. 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	0.10	Tri.-Amp. Pent.-Amp.	90	0.0	.....	0.15	.....	240,000	275	.....	.....	.....
3B7-1291	Duotriode	7BE	2.8	1.10	Osc. Amp.	135	0	.....	2.2	(Class B)	1,900	20	16,000	1,500	.....
3D6-1299	Tetrode	6BB	2.8	1.4	Power Amp.	150	4.5	90	10.2	1.8	(Class A)	2,400	.....	14,000	600
3O5GT/G	Tetrode (Series Fil. Oper.)	7-AP	1.4	0.10	Power Amp.	90	4.5	90	9.5	1.3	75,000	2,200	.....	8,000	270
3S4	Tetrode (Series Fil. Oper.)	7-BA	2.8	0.05	Power Amp.	90	4.5	90	8.0	1.0	80,000	2,000	.....	8,000	230
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, 195 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	45.0	.....	60.0	.....	800	5,250	4.2	2,500	3,200
6A4/LA	Pentode	5-B	6.3	0.30	Power Amp.	135	9.0	135	13.0	2.8	52,600	2,100	150	9,500	700	
6A5G	Triode	6-T	6.3	1.25	Power Amp. P.P. AB ₁ Amp	250	45.0	.....	60.0	.....	800	5,250	4.2	2,500	3,750
6A6	Duodiode	7-B	6.3	0.80	Power Amp. Driver	300	0.0	.....	17.5	.....	11,300	3,100	35	10,000	10,000
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	1.5	50	1.1	1.3	600,000	360A	(G ₂ = 100 V., 2.0 Ma.)	.....	.....
6AB5/6N5	Triode	6-R	6.3	0.15	Indicator	250	3.0	100	3.5	2.7	360,000	550A	(G ₂ = 250 V., Max., 4.0 Ma.)	.....	.....
6AB7/1853	Pentode	8-N	6.3	0.45	Amplifier	135	.....	.....	.....	.....	.....	.....	.....	.....	.....
6AC5GT/G	Triode	6-Q	6.3	0.40	Power Amp.	250	.....	.....	.....	.....	.....	.....	.....	.....	.....
6AC7/1852	Pentode	8-N	6.3	0.45	Amplifier	300	.....	.....	.....	.....	.....	.....	.....	.....	.....
6AD6G	Duodiode	7-AG	6.3	0.15	Indicator	100	.....	.....	.....	.....	.....	.....	.....	.....	.....
6AD7G	Tri. Pentode	8-AY	6.3	0.85	Triode Amp. Pent. Amp.	250	.....	.....	.....	.....	.....	.....	.....	.....	.....
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	Amplifier	250	1.5	.....	6.5	.....	2,500	1,000	25	.....	.....
6AE7GT	Duotriode	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	.....	.....	.....	.....	.....	.....	.....	.....	.....
6AG7	Pentode	8-Y	6.3	0.65	Amplifier	300	19.5	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	Duotriode	6-AS	6.3	0.80	Power Amp.	Characteristics Same as Type 6N6G.										
6B7, 6B7S	Duodl. Pent.	7-D	6.3	0.30	R-F or I-F Amplifier	100	3.0	100	5.8	1.7	300,000	950	.....	.....	.....
6B8	Duodl. Pent.	8-E	6.3	0.30	R-F or I-F Amplifier	180	3.0	75.0	3.4	0.9	1 Meg.	840	.....	.....	.....
6B8G	Duodl. Pent.	8-E	6.3	0.30	R-F or I-F Amplifier	250	3.0	100	6.0	1.5	800,000	1,000	.....	.....	.....
6C5GT/G	Triode	6-Q	6.3	0.30	Amplifier	250	4.5	50.0	0.65	.....	.....	.....	.....	.....	.....
6C6	Pentode	6-F	6.3	0.30	Amplifier	100	3.0	100	2.0	0.5	1 Meg.	1,185	.....	.....	.....
6C7	Duodiode Tri.	7-G	6.3	0.30	Det. Amp.	250	9.0	.....	4.5	.....	16,000	1,250	20	.....	.....
6C8G	Duotriode	8-G	6.3	0.30	Amplifier Inverter	250	4.5	.....	3.2	.....	22,500	1,600	36	.....	.....

*Applied through 250,000 ohms. **Triode Operation. †Pentode Operation. ‡Plate to Plate. §Approximate. ▲Conversion Conductance
 ††Applied through 200,000 ohms. ‡‡With Average Power Input of 320 Mw. Grid to Grid. †††For two tubes with 40 volts RMS applied to each grid. ††††Applied through 20,000 ohms.
 †††††Plate and Target Supply Voltage. ††††††One Section

PENNSYLVANIA 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.												
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	(G ₂ = 135 V., 1.8 Ma.) (G ₂ = 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	Duotriode	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	2,500 2,550	.....	7,000 7,000 10,000 † 10,000 †	3,200 4,800 11,000 18,000
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	.....	.....	Pentode Section Pentode Section Triode Section
6F8G	Duotriode	8-G	6.3	0.60	Amplifier Inverter	250 250	8.0 5.5	.....	9.0 .....	.....	7,700	2,600	20	.....	(One Section)
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	Duotriode	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 Plate Supply	100 Thru 20,000 Res.,	1.3 Grid Resistor 50,000	2.9 Grid Current 0.4 Ma.	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	.....	.....
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 Grid Resistor	100 50,000	2.5 Plate Current 3.8 Ma.,	6.0 Conversion Conductance 3000	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	.....	.....	(G ₃ = Neg. 15 Volts) (G ₃ = Neg. 3.0 Volts)
6L7G	Heptode	7-T	6.3	0.30	Mixer-Amp.	Characteristics Same as Type 6L7, Except Capacitances.										
6N6G	Duotriode	7-AU	6.3	0.80	Power Amp.	300 300	0.0 0.0	(Input Section) (Output Section)	8.0 45.0	.....	24,000 †	2,400	58	7,000	4,000
6N7, 6N7G	Duotriode	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 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 6F7, Except Capacitances.										
6Q7	Duotriode 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	.....	.....
6Q7G, GT	Duotriode Tri.	7-V	6.3	0.30	Det.-Amp.	Characteristics Same as Type 6Q7, Except Capacitances.										
6R7	Duotriode Tri.	7-V	6.3	0.30	Det.-Amp.	250	9.0	.....	9.5	.....	8,500	1,900	16	.....	.....
6R7G, GT	Duotriode 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	Duotriode	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	Duotriode	8BD	6.3	.300	Amplifier	250	2.0	.....	2.3	.....	44,000	1,600	70	.....	.....
6SN7GT	Duotriode	8BD	6.3	.600	Amplifier	50 250	0 8	.....	10 9	.....	6,700 7,700	3,000 2,600	20	.....	.....
6SQ7	Duotriode Tri.	8-Q	6.3	0.30	Det.-Amp.	250	2.0	.....	0.9	.....	91,000	1,100	100	.....	.....
6SQ7GT/G	Duotriode Tri.	8-Q	6.3	0.30	Det.-Amp.	Characteristics Same as Type 6SQ7, Except Capacitances.										
6SR7	Duotriode Tri.	8-Q	6.3	0.30	Det.-Amp.	250	9.0	.....	9.5	.....	8,500	1,900	16	.....	.....
6T7G	Duotriode 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	.....	.....

†Applied through 250,000 ohms. **Triode Operation. ‡Pentode Operation. §Plate to Plate. ¶Approximate. ▲Conversion Conductance
 ‡Applied through 200,000 ohms. ††For two tubes with 40 volts RMS applied to each grid. †††With Average Power Input of 320 Mw. Grid to Grid. †††Applied through 20,000 ohms. †‡‡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 Milliwatts	
			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.†	1,225	.....	.....	.....
6X5GT/G	Duodiode	6-S	6.3	0.60	F-W Rect.	395 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) (Class B Operation)		.....	7,000 [‡] 14,000 [‡]	5,500 8,000	
6Z5	Duodiode	6-K	6.3	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) (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.†	1,225 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	500,000 1.5 Meg. (Triode Grid Current 0.3 Ma.) (Triode Grid Current 0.4 Ma.)	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.	100 250 100 250 [‡]	2.0 2.0 0.05 Meg. 0.05 Meg.	100 100	1.9 1.8 3.0 5.0	3.0 3.0	500,000 [‡] 1.25 Meg.† (Triode Grid Current 0.3 Ma.) (Triode Grid Current 0.4 Ma.)	500A 525A	.....	.....	.....
7V7	Pentode	8-V	6.3	0.45	Amplifier	300	.....	150	10.0	3.9	300,000	5,800 (Cath. Bias Resistor = 160 Ohms)	.....	.....	.....
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.										
7Z4	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. ‡With Average Power Input of 320 Mw. Grid to Grid. ††Applied through 200,000 ohms. †††For two tubes with 40 volts RMS applied to each grid. ††††Applied through 20,000 ohms. †††††Conversion 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 Milli-watts
			Volts	Amps.											
12A5	Pentode	7-F	12.6 6.3	0.30 0.60	Power Amp. Power Amp.	100 180	15.0 25.0	100 180	17.0 45.0	3.0 8.0	50,000† 35,000†	1,700 2,400	.....	4,500 3,300	800 3,400
12A7	Diode-Pent.	7-K	12.6	0.30	Rectifier Amplifier	195 RMS	.....	.....	30.0 Max.	.....	.....	.....	.....	.....	.....
12A8G, GT	Heptode	8-A	12.6	0.15	Converter	135	13.5	135	9.0	2.5	102,000	975	.....	13,500	550
12B8GT	Pentode Tri.	8-T	12.6	0.30	Pent. Amp. Tri.-Amp.	100 100	3.0 1.0	100	8.0 0.6	.....	170,000 73,000	2,100	360 110	Pentode Section Triode Section	
12C8	Pentode	8-E	12.6	0.15	R-F or I-F	Characteristics Same as Type 6A8G.									
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	.....	.....
12SN7GT	Duodiode	8BD	12.6	.300	Amplifier	90	0	.....	10	.....	6,700	3,000	20	.....	.....
12SQ7	Duodiode Tri.	8-Q	12.6	0.15	Det.-Amp.	Characteristics Same as Type 6SQ7.									
12SQ7GT/G	Duodiode Tri.	8-Q	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	.....	.....
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	.....	.....	.....
14B6	Duodiode Tri.	8-W	12.6	0.15	Det.-Amp.	100	1.0	.....	0.4	.....	110,000	900	100	.....	.....
14B8	Heptode	8-X	12.6	0.15	Converter	250	2.0	.....	0.9	.....	91,000	1,100	100	.....	.....
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	.....	.....	.....
14E6	Duodiode Tri.	8-W	12.6	0.15	Amplifier	250	3.0	100	2.2	0.7	1.0 Meg.†	1,575	.....	.....	.....
14F7	Duodiode	8-AC	12.6	0.15	Amplifier	100	1.0	.....	0.65	.....	62,000†	1,125	70	.....	.....
14H7	Pentode	8-V	12.6	0.15	Amplifier	250	2.0	.....	2.3	.....	44,000†	1,600	70	.....	.....
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	.....	.....
14Q7	Heptode	8-AL	12.6	0.15	Converter	250	8.0	.....	9.0	.....	7,700	2,600	20	.....	.....
14R7	Diode-Pent.	8-AE	12.6	0.15	Amplifier	100	2.0	100	3.3	8.5	500,000	525A / Osc. Grid Resistor 20,000	.....	.....	.....
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.									
15	Pentode	5-F	2.0	0.22	R-F Amp.	450 A-C Volts per Plate, RMS, 70 Ma. Output Current. Choke Input to Filter.									
18	Pentode	6-B	14.0	0.30	Power Amp.	67.5	1.5	67.5	1.85	0.3	630,000	710	450	.....	.....
19	Duodiode	6-C	2.0	0.26	Power Amp.	135	1.5	67.5	1.85	0.3	800,000	750	600	.....	.....
20	Triode	4-D	3.3	0.132	Power Amp.	135	0.0	.....	5.0	.....	(Class B Operation)	.....	.....	10,000†	2,100
22	Tetrode	4-K	3.3	0.132	R-F Amp.	135	3.0	.....	1.7	.....	(Class B Operation)	.....	.....	10,000†	1,900
24A, 24S	Tetrode	5-E	2.5	1.75	R-F Amp.	135	6.0	.....	0.1	.....	(Class B Operation)	.....	.....	10,000†	1,600
25A6GT/G	Pentode	7-S	25.0	0.30	Power Amp.	90	16.5	.....	2.8	.....	7,800	450	3.5	9,600	50
25A7GT/G	Diode-Pent.	8-F	25.0	0.30	H-W Rect. Power Amp.	117	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	.....	.....	45.0	.....	15,200	3,800	58	.....	.....
25B6G	Pentode	7-S	25.0	0.30	Power Amp.	165	.....	.....	46.0	.....	.....	.....	.....	2,000	2,000
25B8GT	Pentode Tri.	8-T	25.0	0.15	Pent. Amp. Tri.-Amp.	105	16.0	105	48.0	2.0	15,500	4,800	.....	1,700	2,400
25C6G	Tetrode	7-AC	25.0	0.30	Power Amp.	200	23.0	135	62.0	1.8	18,000	5,000	.....	2,500	7,100
25L6GT/G	Tetrode	7-AC	25.0	0.30	Power Amp.	100	3.0	100	7.6	2.0	185,000	2,000	370	Pentode Section Triode Section	
25Y5	Duodiode	6-E	25.0	0.30	H-W Rect.	100	1.0	.....	0.6	.....	75,000	1,500	112.5	.....	.....
25Z5	Duodiode	6-E	25.0	0.30	Doubler	Characteristics Same as Type 6Y6G.									
25Z6GT/G	Duodiode	7-Q	25.0	0.30	Doubler H-W Rect.	110	7.5	110	49.0	4.0	13,000	9,000	.....	2,000	2,100

*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. †††††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 Milliwatts
			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	6.0 9.0 13.5	.....	3.0 4.7 5.0	.....	10,000 9,000 9,000	900 1,000 1,000	9.0 9.0 9.0	.....	.....
					Detector	250 250	21.0 30.0	.....	5.2 .....	.....	9,250 975	975	9.0	.....	.....
28D7	Duo-Tetrode	8BS	28.0	.400	Amplifier	28 28	3.5 0	28 28	25 64	3.0 17.0	4,200	3,400	.....	6,000 1,500	225 600
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.									
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	1.7	0.4	(Plate Current to be adjusted to 0.2 Ma. with no Input Signal)				
32L7GT	Diode, Tet.	8-Z	32.5	0.30	Rectifier Power Amp.	125 RMS 110	7.5	110	60 40	3.0	15,000	6,000	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	400,000 600,900 1 Meg.	560 600 620	224 350 620	.....	.....
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.	250*	1.0	45 to 67.5	0.5	.....	.....	.....	.....	.....	.....
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 5,900	.....	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. 235 Max. A-C Volts, RMS, 100 Ma. Output Current without Panel Lamp.									
35Z3	Diode	4-Z	35.0	0.15	H-W Rect.	235 Max. A-C Volts per Plate, RMS, 100 Ma. Output Current, Condenser Input to Filter.									
35Z4GT	Diode	5-AA	35.0	0.15	H-W Rect.	117 A-C Volts, RMS, 100 Ma. Output Current. Condenser Input to Filter.									
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 1/2 of Plate Ma.	575,000 500,000 550,000	1,000 1,050 1,080	475 525 595	.....	.....
					Detector	250	6.0	20 to 25	3.2	.....	.....	.....	.....	.....	.....
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	Tile Gs to P Tile Gs to G Tile Gs to G	22.0 4.0 6.0	.....	2,380 (Class B Operation)	2,350 (Class B Operation)	5.6	6,400 5,800	1,250 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	Tile Gs to P Tile 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	30.0	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	Duodiode	7-Q	50.0	0.15	F-W Rect.	Characteristics Same as Type 25Z6GT/G.									
50Z7G	Duodiode	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. 235 A-C Volts, RMS, 65 Ma. Output Current.									
53	Duotriode	7-B	2.5	2.00	Power Amp.	Characteristics Same as Type 6A6.									
55, 55S	Duodiode Tri.	6-G	2.5	1.00	Det.-Amp.	Characteristics Same as Type 6V7G.									
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	250	20.0	.....	.....	.....	.....	.....	.....	.....	.....
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	250*	4.3	100	2.0	0.5	(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.
□ Applied through 20,000 ohms.

SYLVANIA AVERAGE 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.											
59	Pentode	7-A	2.5	2.00	Power Amp.	250** 250† 300 400	28.0 18.0 0.0 0.0	Tie Gs to P 250 Tie Gs to G and Su to P 26.0	26.0 35.0 20.0 26.0	.....	2,300 40,000 (Class B Operation Two Tubes)	2,600 2,500 (Operation Two Tubes)	6.0 100 (Class B Operation Two Tubes)	5,000 6,000 4,600† 6,000†	1,250 3,000 15,000†† 20,000††
70L7GT	Diode-Tetrode	8-AA	70.0	0.15	Rectifier Amplifier	117 A-C Volts, RMS, 70 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
71A	Triode	4-D	5.0	0.25	Power Amp.	90 135 180	16.5 27.0 40.5	.....	10.0 17.3 20.0	.....	2,170 1,820 1,750	1,400 1,650 1,700	3.0 3.0 3.0	3,000 3,000 4,800	125 400 790
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	250 250	13.5 20.0†	.....	5.0	.....	9,500 (Plate Current to be adjusted to 0.2 Ma. with no Input Signal)	1,450	13.8	.....	.....
77	Pentode	6-F	6.3	0.30	Amplifier	100 250	1.5 3.0	60.0 100	1.7 2.3	0.4 0.5	600,000† 1.0 Meg.†	1,100 1,250	.....	.....	.....
78	Pentode	6-F	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	.....	.....	.....
79	Duotriode	6-H	6.3	0.60	Power Amp.	180 250	0.0 0.0	.....	7.5‡ 10.5‡	.....	.....	.....	.....	7,000† 14,000†	5,500 8,000
80	Duodiode	4-C	5.0	2.00	F-W Rect.	350 A-C Volts per Plate, RMS, 125 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
81	Diode	4-B	7.5	1.25	H-W Rect.	700 A-C Volts per Plate, RMS, 85 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
82	Duodiode	4-C	2.5	3.00	F-W Rect.	450 A-C Volts per Plate, RMS, 115 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
83	Duodiode	4-C	5.0	3.00	F-W Rect.	450 A-C Volts per Plate, RMS, 225 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
83V	Duodiode	4-AD	5.0	2.00	F-W Rect.	375 A-C Volts per Plate, RMS, 175 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
84/6Z4	Duodiode	5-D	6.3	0.50	F-W Rect.	325 A-C Volts per Plate, RMS, 60 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
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** 180† 180	20.0 18.0 0.0	Gs & Su to P 180	17.0 20.0 3.0‡	.....	3,300 80,000	1,425 1,550	4.7 125	7,000 8,000 9,400†	300 1,500 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.	.....	.....	.....	.....	.....	.....	.....	.....	.....
117N7GT	Diode-Tet.	8-AV	117	0.09	H-W Rect. Power Amp.	117 A-C Volts, RMS, 75 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	.....
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
910-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.	90 135	4.5 9.0	.....	2.9 3.5	.....	13,500 12,700	610 645	8.2 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. Tel.-Amp.	300 300	..... .....	150 150	10.0 12.0	2.5 0.5	700,000 540,000	5,500 6,500	.....	3,850 Bias Rest. = 200 Ohms. 3,500 Bias Rest. = 200 Ohms.	.....
1612	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 V.) (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	100 250	0.0 8.0	.....	10.0 8.0	.....	7,000 8,700	3,600 2,300	25 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.

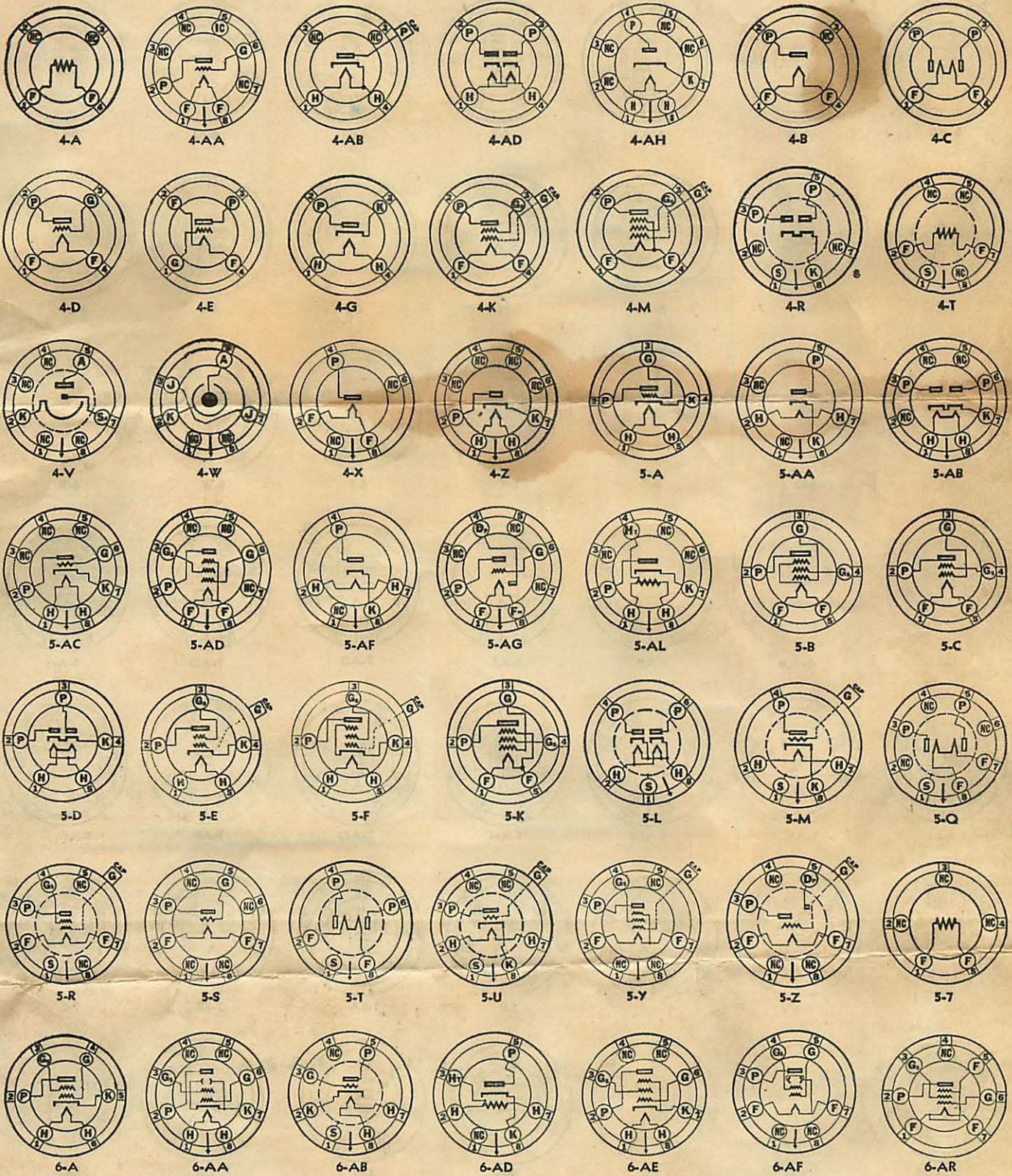
SYLVANIA PANEL LAMP CHARACTERISTICS

Type No.	Cir-cuit Volts	Design		Bead Color	Bulb Style	Mini-ature Base	Usual Service	Type No.	Type No.	Cir-cuit 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

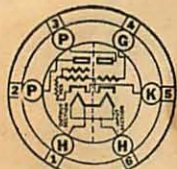
(Viewed From Bottom of Base—RMA Numbering System)



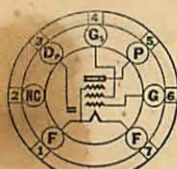
SYMBOLS: A—Anode, A1—Anode 1, A2—Anode 2, D1—Deflector 1, D2—Deflector 2, D3—Deflector 3, D4—Deflector 4, Dp—Diode Plate, F—Filament, Fc—Filament Center, G—Control Grid, GA—Anode Grid, GM—Modulator Grid, Go—Oscillator Grid, Gs—Screen Grid, H—Heater, Hc—Heater Center, Ht—Heater Tap, IC—Internal Connection, 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

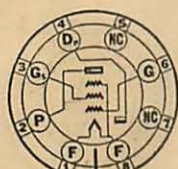
(Viewed From Bottom of Base—RMA Numbering System)—Continued



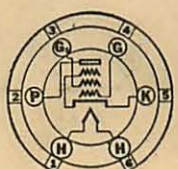
6-AS



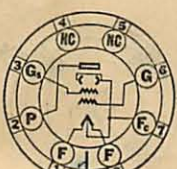
6-AU



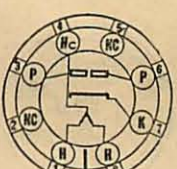
6-AX



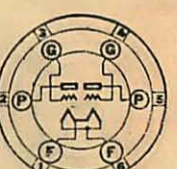
6-B



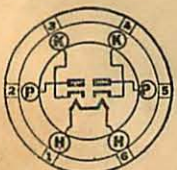
6-BB



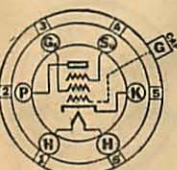
6-BJ



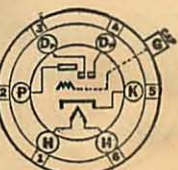
6-C



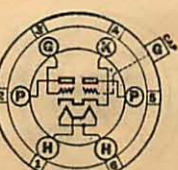
6-E



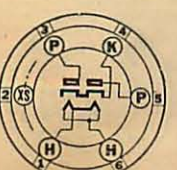
6-F



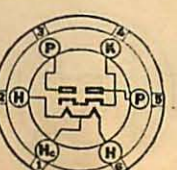
6-G



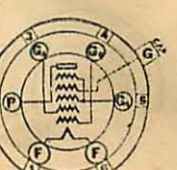
6-H



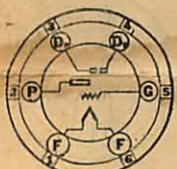
6-J



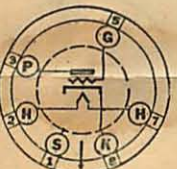
6-K



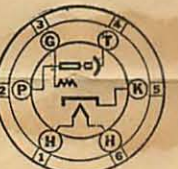
6-L



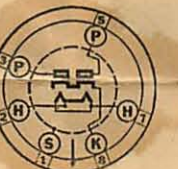
6-M



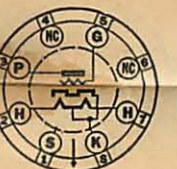
6-Q



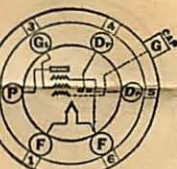
6-R



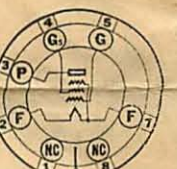
6-S



6-T



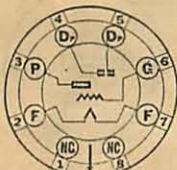
6-W



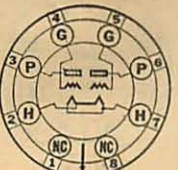
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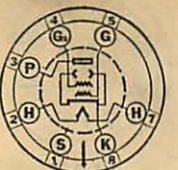
7-A



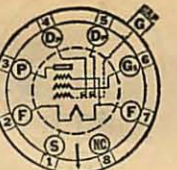
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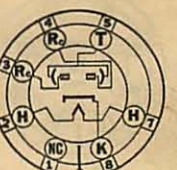
7-AB



7-AC



7-AD



7-AG



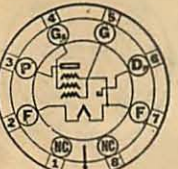
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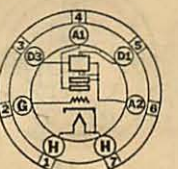
7-AJ



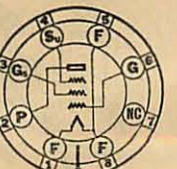
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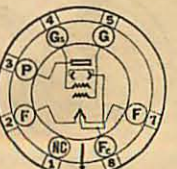
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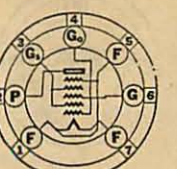
7-AN



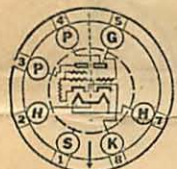
7-AO



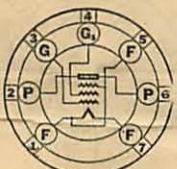
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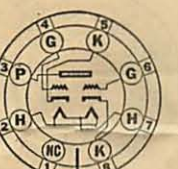
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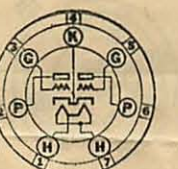
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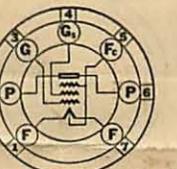
7-AV



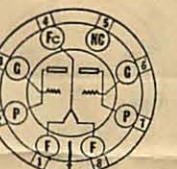
7-AX



7-B



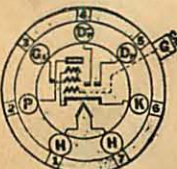
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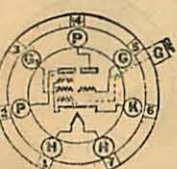
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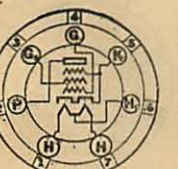
7-C



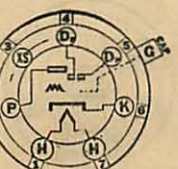
7-D



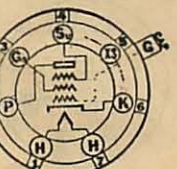
7-E



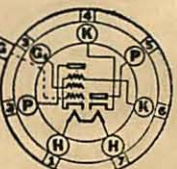
7-F



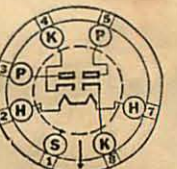
7-G



7-H



7-K

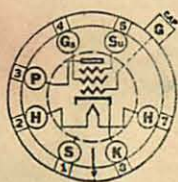


7-Q

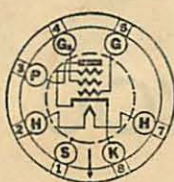
SYMBOLS: A—Anode; A1—Anode 1; A2—Anode 2; D1—Deflector 1; D2—Deflector 2; D3—Deflector 3; D4—Deflector 4; Dp—Diode Plate; F—Filament; Fc—Filament Center; G—Control Grid; GA—Anode Grid; GM—Modulator Grid; Go—Oscillator Grid; Gs—Screen Grid; H—Heater; Hc—Heater Center; Ht—Heater Tap; IC—Internal Connection; 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

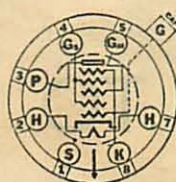
(Viewed From Bottom of Base—RMA Numbering System)—Continued



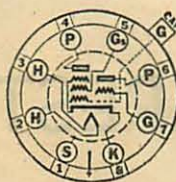
7-R



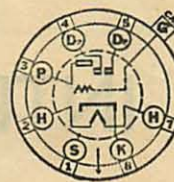
7-S



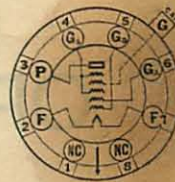
7-T



7-U



7-V



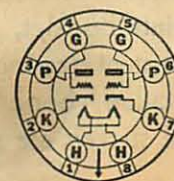
7-Z



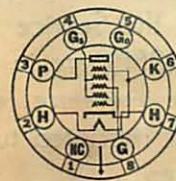
8-A



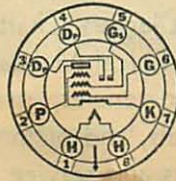
8-AA



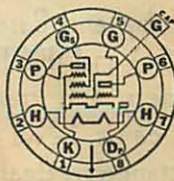
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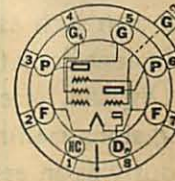
8-AD



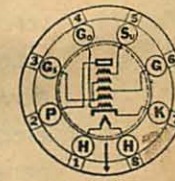
8-AE



8-AF



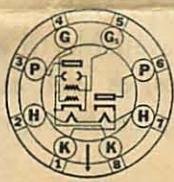
8-AJ



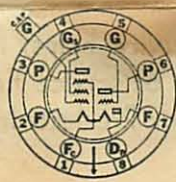
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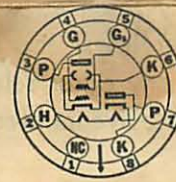
8-AN



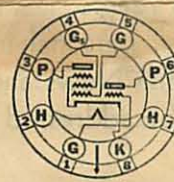
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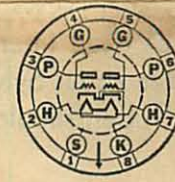
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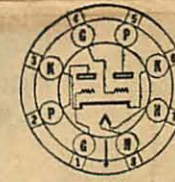
8-AV



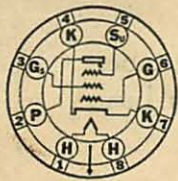
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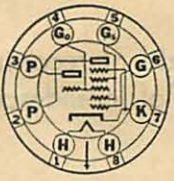
8-B



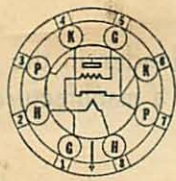
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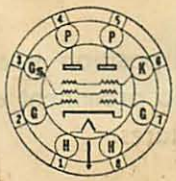
8-BJ



8-BL



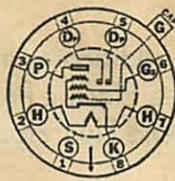
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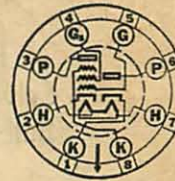
8-BS



8-C



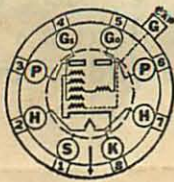
8-E



8-F



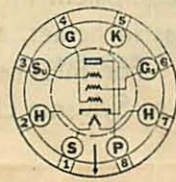
8-G



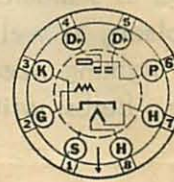
8-H



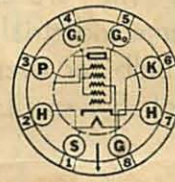
8-K



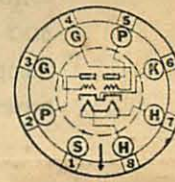
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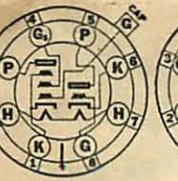
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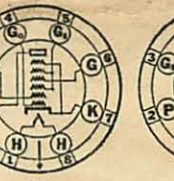
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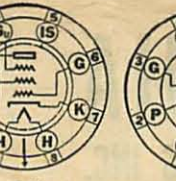
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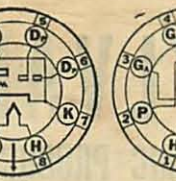
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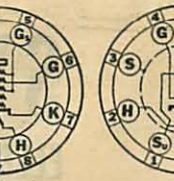
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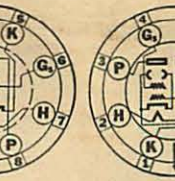
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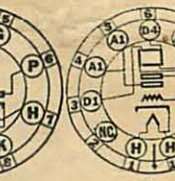
8-W



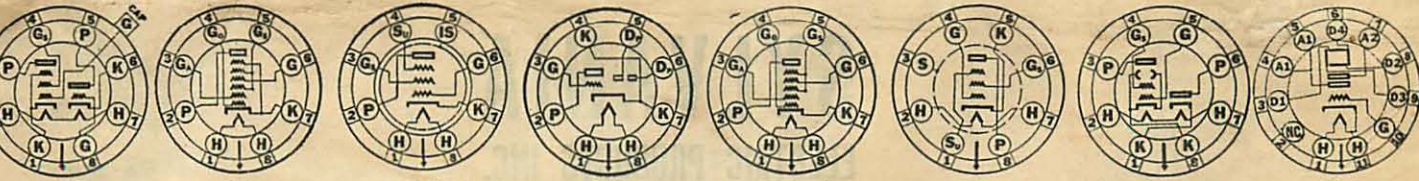
8-X



8-Y



8-Z



10-A

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.

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