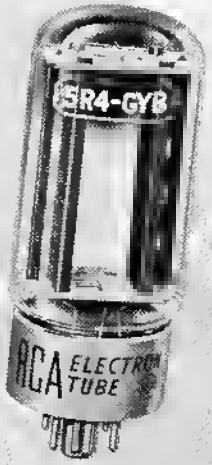
MISCELLANEOUS TYPES







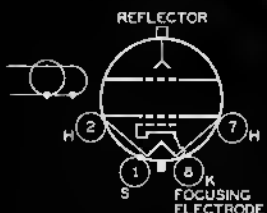


Type	Description
1L4	Sharp-Cutoff Pentode. 7-pin miniature type. For rf amplifiers in battery-supply receivers.
2K26	Single-resonator reflex Klystron with an integral resonant cavity and mechanical tuning mechanism. For local oscillator service in applications such as microwave receivers. Can be tuned electrically to give about a 55 Mc vernier adjustment. Useful power output about 100 Mw.
3A4	Power Pentode. 7-pin miniature, coated-filament, dry-cell type. Can deliver 1.2 watts power output at 10 Mc in rf amplifier service.
3A5	Medium-Mu Twin Triode. 7-pin miniature, coated-filament, dry-cell type. Can deliver 2 watts power output at 40 Mc in push-pull class C service.
5R4-GY	Full-Wave Vacuum Rectifier. Coated filament type. Useful in aircraft applications at altitudes up to 40000 feet. Octal 5-pin base.
5R4-GYB	Full-Wave Vacuum Rectifier. Coated-filament type. Useful in aircraft applications at altitudes up to 40000 feet. Octal 5-pin base.
6AG7-Y	Power Pentode. Has a low-loss-phenolic base but otherwise identical with the 6AG7.
6AK6	Power Pentode. 7-pin miniature type. Similar to 6G6-G.
6AS6	Sharp-Cutoff Pentode. 7-pin miniature type with heater-cathode. For use in gated amplifier circuits, delay circuits, and gain-controlled amplifier circuits.
6AS7-G	Low-Mu Twin Triode. Heater-cathode type. Has high perveance, a mu of 2, and an ac plate resistance of 280 ohms. For use as a regulator tube in dc power supplies, and in projection television booster scanning applications. Octal 8-pin base.
6SJ7-Y	Sharp-Cutoff Pentode. Has a low-loss-phenolic base but otherwise identical with the 6SJ7.
12A6	Beam Power Tube. Metal type with 12.6-volt heater. Octal 7-pin base.
12SW7	Twin Diode—Medium-Mu Triode. Single-ended metal type with an octal 8-pin base. Similar to the 6SR7 except for heater rating.
12SX7-GT	Medium-Mu Twin Triode. Similar to the 6SN7-GT except for heater rating. Octal 8-pin base.
12SY7	Pentagrid Converter. Metal type with an octal 8-pin base. Similar to the 6SA7 except for heater rating.
83	Full-Wave Mercury-Vapor Rectifier. Useful in dc power supplies subject to wide variations in the output current. Values shown are for the temperature range from 20° to 60° C. Medium 4-pin base.
1613	Power Pentode. Heater-cathode type. Useful as a crystal oscillator. For renewal use only.
1614	Beam Power Tube. Heater-cathode type. For police and emergency broadcast use. Octal 7-pin base.

For key to terminal connections see page 30.

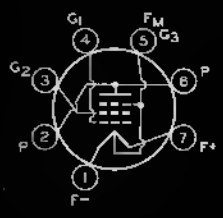


1L4

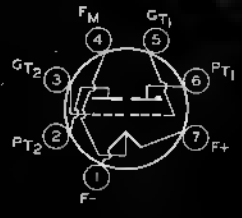


NOTE: COAXIAL OUTPUT LINE PASSES THROUGH VACANT PIN POSITION NO. 4.

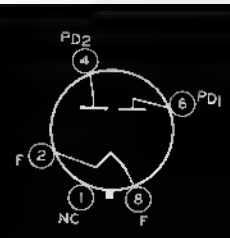
2K26



3A4



3A5



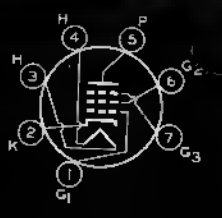
5R4-GY 5R4-GYB



6AG7-Y



6AK6

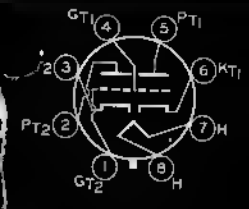


6AS6

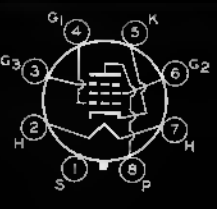
MISCELLANEOUS TYPES

Cathode Volts	Cathode Amp.	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.	Class of Service	Maximum Ratings: Plate Volts	Max. Ratings: Plate Dissipation Watts	Max. Ratings: Grid-No. 2 Input Watts	Operating Conditions: Plate Supply Volts	Grid-No. 1 Volts(v) or Cathode Resistance Ohms	Grid-No. 2 Supply Volts	Grid-No. 2 Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance Micromhos	Amplification Factor	Power Output Watts	RCA Type
1.4	0.05	2 1/8	3/4	Class A_1 Amplifier	110	—	—	90	0	67.5	1.2	2.9	260000	925	—	—	1L4
6.3	0.44	3 1/2	1 39/64	Class C CW Oscillator	Maximum Ratings, Absolute Values: DC Resonator Volts, 330; DC Reflector Volts, 0 to −350; Peak Heater-Cathode Volts, ±50								DC Resonator Ma., 35				2K26
2.8 / 1.4	0.1 / 0.2	2 1/8	3/4	Class A_1 Amplifier	150	2.0	0.4	150	−8.4v	90	2.2	13.3	100000	1900	—	0.7→	3A4
				RF Power Amplifier	150	2.0	0.9	150	Grid Leak	135	6.5	18.3	Power Output, 1.2 watts at 10 Mc.				
2.8 / 1.4	0.11 / 0.22	2 1/8	3/4	Class A_1 Amplifier Each Unit	135	5.0	—	90	−2.5v	—	—	3.7	8300	1800	15	—	3A5
				Push-Pull Class C Amplifier Each Unit	135	1.0	—	135	−20v	Power Output, 2 watts at 40 Mc.		30	Driving Power, 0.2 watt				
5	2	5 3/16	2 1/16	At 40000 Feet with Capacitive Input Filter	AC Volts per Plate (RMS), 750; Max. DC Output Ma., 175; Max. Peak Inverse Volts, 2400; Max. Peak Plate Ma., 650; Min. Total Effective Supply Impedance per Plate, 125 ohms												5R4-GY
				At 40000 Feet with Inductive Input Filter	AC Volts per Plate (RMS), 850; Max. DC Output Ma., 250; Max. Peak Inverse Volts, 2400; Max. Peak Plate Ma., 650; Min. Value of Input Choke, 5 Henries												
5	2	4 1/4	1 9/16	At 40000 Feet with Capacitive Input Filter	Max. AC Volts per Plate (RMS), 750; Max. DC Output Ma. (Both Plates), 250; Max. Peak Inverse Plate Volts, 2650; Max. Peak Plate Ma., 715; Min. Total Effective Supply Impedance per Plate, 100 ohms												5R4-GYB
				At 40000 Feet with Inductive Input Filter	Max. AC Volts per Plate (RMS), 800; Max. DC Output Ma. (Both Plates), 250; Max. Peak Inverse Plate Volts, 2650; Max. Peak Plate Ma., 715; Min. Value of Input Choke, 5 henries												
6.3	0.65	3 1/4	1 5/16	Class A_1 Amplifier	300	9.0	1.5	180	−3v	150	7.0	30	130000	11000	—	3.0o	6AG7-Y
6.3	0.15	2 1/8	3/4	Class A_1 Amplifier	300	2.75	.75	180	−9v	180	2.5	15	200000	2300	—	1.1	6AK6
6.3	0.175	1 3/4	3/4	Class A_1 Amplifier	180	1.7	0.75	120	−2v	120	3.5	5.2	110000	3200	—	—	6AS6
6.3	2.5	4 5/8	1 9/16	Class A_1 Amplifier Each Unit	250	13	—	135	250	—	—	125	280	7000	2.0	—	6AS7-G
6.3	0.3	2 5/8	1 5/16	Class A_1 Amplifier	300	2.5	0.4	250	−3v	100	0.8	3.0	#	1650	—	—	6SJ7-Y
12.6	0.15	3 1/4	1 5/16	Class A_1 Amplifier	250	7.5	1.5	250	−12.5v	250	3.5	30	70000	3000	—	3.4ø	12A6
12.6	0.15	2 5/8	1 5/16	Class A_1 Amplifier	250	2.5	—	26.5	Grid Res., 2 meg.			1.1	15500	1100	17	—	12SW7
								250	−9v	—	—	9.5	8500	1900	16	—	
12.6	0.3	3 5/16	1 5/16	Class A_1 Amplifier Each Unit	300	2.5	—	26.5	Grid Res., 0.05 meg.			1.8	11500	1800	21	—	12SX7-GT
								250	−8v	—	—	9.0	7700	2600	20	—	
12.6	0.15	2 5/8	1 5/16	Converter	300	1.0	1.0	26.5	−1v‡	26.5†	1.7†	0.45	—	Conversion Transcond., 250 μmhos			12SY7
								250	−2v‡	100†	8.5†	3.5	1000000	Conversion Transcond., 450 μmhos			
5.0	3.0	5 3/8	2 1/16	With Capacitive Input Filter	Max. AC Volts per Plate (RMS), 450; Max. Peak Inverse Volts, 1550; Max. DC Output Ma., 225; Max. Peak Plate Amp., 1; Min. Total Effec. Supply Imped./Plate, 50 Ohms												83
				With Inductive Input Filter	Max. AC Volts per Plate (RMS), 550; Max. Peak Inverse Volts, 1550; Max. DC Output Ma., 225; Max. Peak Plate Amp., 1; Min. Value of Input Choke, 3 henries												
6.3	0.7	3 1/4	1 5/16	Class C Telegraphy	275	7.0	2.0	350	−35v	200	10	50	—	—	—	9.0	1613
6.3	0.9	4 5/16	1 5/8	Class C Telephony**	375	21	2.5	375	−50v	250	—	93	—	—	—	24.5	1614
				Class C Telegraphy**	450	25	3.5	450	−45v	250	8	100	—	—	—	31	

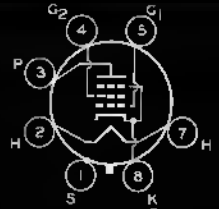
* Greater than 1 megohm.
‡ For Grid-No. 3, which is control grid.
† For Grids No. 2 and No. 4, which are internally connected.
0 Load for stated power, 10000 ohms.
→ Load for stated power, 8000 ohms.
ø Load for stated power, 7500 ohms.
** Intermittent Commercial and Amateur Service.



6AS7-G 12SX7-GT



6SJ7-Y



12A6 1613 1614



12SW7



12SY7



83