RCA Type	Name	Outline	Terminal Diagram	Heater or Filament (F) Volts	Heater or Filament (F) Amperes	Use — Values to right give operating conditions and characteristics for indicated typical use
12KL8	Diode—Sharp-Cutoff Pentode	6E	9LQ	12.6	0.15	Pentode Unit as Class A Amplifier
12L6GT	Beam Power Tube	13D	7AC	12.6	0.6	Class A Amplifier
12Q7GT	Twin Diode—High-Mu Triode	14A	7V	12.6	0.15	Triode Unit as Amplifier
12R5	Beam Power Tube	5D	7CV	12.6	0.6	Vertical Deflection Amplifier
12S8GT	Triple Diode—High-Mu Triode	14B	8CB	12.6	0.15	Triode Unit as Class A Amplifier
12SA7 12SA7 GT	Pentagrid Converter	2A 13D	8R 8AD	12.6	0.15	Converter
12SC7	High-Mu Twin Triode	2A	8S	12.6	0.15	Each Unit as Class A Amplifier
12SF5 12SF5 GT	High-Mu Triode	2A 13D	6AB 6AB	12.6	0.15	Class A Amplifier
12SF7	Diode—Remote-Cutoff Pentode	2A	7AZ	12.6	0.15	Pentode Unit as Amplifier
12SG7	Semiremote-Cutoff Pentode	2A	8BK	12.6	0.15	Class A Amplifier
12SH7	Remote-Cutoff Pentode	3	8BK	12.6	0.15	Class A Amplifier
12SJ7 12SJ7 GT	Sharp-Cutoff Pentode	2A 13D	8N 8N	12.6	0.15	Class A Amplifier
12SK7 12SK7 GT	Remote-Cutoff Pentode	2A 13D	8N 8N	12.6	0.15	Class A Amplifier
12SN7 GT	Medium-Mu Twin Triode	13D	8BD	12.6	0.3	Each Unit as Class A Amplifier
12SQ7 12SQ7 GT	Twin Diode—High-Mu Triode	2A 13D	8Q 8Q	12.6	0.15	Triode Unit as Class A Amplifier
12SR7 12SR7 GT	Twin Diode—Medium-Mu Triode	2A 13D	8Q 8Q	12.6	0.15	Triode Unit as Class A Amplifier
12SW7♦	Twin Diode—Medium-Mu Triode	2A	8Q	12.6	0.15	Triode Unit as Class A Amplifier
12SY7♦	Pentagrid Converter	2A	8R	12.6	0.15	Converter
12U7	Medium-Mu Twin Triode	6B	7CK	10.0 to 15.9	0.15 approx. at 12.6V	Each Unit as Class A Amplifier
12Z3	Half-Wave Rectifier	22	4G	12.6	0.3	With Capacitive-Input Filter
13EM7	Dual Triode	13A	8BD	13	0.45	Unit No. 1 as Vertical Deflection Amplifier Unit No. 2 as Vertical Deflection Amplifier
13GB5	Beam Power Tube	10E	9NH	13.3	0.6	Horizontal Deflection Amplifier
13GF7	Dual Triode	11A	9QD	13	0.45	Vertical Deflection Amplifier Vertical Deflection Oscillator
13J10	Power Pentode Gated-Beam Discriminator	8B	12BT	13.2	0.45	Pentode Unit as Class A Amplifier Beam Unit as Gated-Beam Discriminator
13Z10	Power Pentode Gated-Beam Discriminator	8C	12BT	13.2	0.45	Class A Amplifier
14A4	Medium-Mu Triode	12B	5AC	12.6	0.15	Class A Amplifier
14A5	Beam Power Tube	12B	6AA	12.6	0.15	Class A Amplifier

♦ Industrial Type

Plate Volts	Grid Bias or Cathode Resistor	Screen Grid Volts	Screen Grid Current mA	Plate Current mA	AC Plate Resistance Ohms	Transconductance Micromhos	Amplification Factor	Power Load Ohms	Power Output Watts	RCA Type
			For other characteristics, see Type 6KL8							12KL8
110 200	— 7.5V 180Ω	110 125	4.0 2.2	49 46	13000 28000	8000 8000	— —	2000 4000	2.1 3.8	**12L6GT**
			For other characteristics, refer to Type 6Q7GT							12Q7GT
Max. DC Plate Volts, 150 Max. Peak Cathode mA, 155 Max. Plate Dissipation, 4.5 watts					Max. Peak Neg.-Pulse Grid-No. 1 Volts, 150 Max. Grid-No. 2 Volts, 150 Max. Peak Positive-Pulse Plate Volts, 1500 (Abs.)					**12R5**
250	— 2V	—	—	0.9	91000	1100	100	—	—	12S8GT
			For other characteristics, refer to Type 6SA7							**12SA7** 12SA7 GT
			For other characteristics, refer to Type 6SC7							12SC7
			For other characteristics, refer to Type 6SF5							12SF5 12SF5 GT
			For other characteristics, refer to Type 6SF7							**12SF7**
			For other characteristics, refer to Type 6SG7							**12SG7**
			For other characteristics, refer to Type 6SH7							**12SH7**
			For other characteristics, refer to Type 6SJ7							**12SJ7** 12SJ7 GT
			For other characteristics, refer to Type 6SK7							**12SK7** 12SK7 GT
			For other characteristics, refer to Type 6J5							12SN7 GT
			For other characteristics, refer to Type 6SQ7							**12SQ7** 12SQ7 GT
			For other characteristics, refer to Type 6SR7							12SR7 12SR7 GT
250	—9V	—	—	9.5	8500	1900	16	—	—	**12SW7**♦
250	Self excited	100	8.5	3.5	1M	450	Grid-No.1 resistor = 20000Ω			**12SY7**♦
12.6	0V	—	—	1	12500	1600	20	—	—	12U7
			Max. DC Output mA,55							12Z3
Max. DC Plate Volts, 330 Max. DC Cathode mA, 22					Max. Plate Dissipation, 1.5 watts					13EM7
Max. DC Plate Volts, 330 Max. DC Cathode mA, 50					Max. Peak Positive-Pulse Plate Volts, 1500 Max. Plate Dissipation, 10 watts					
			For other ratings, refer to Type 6GB5							13GB5
			For other ratings, refer to Type 6GF7							13GF7
250	— 8V	250	2.5	35	100000	6500	—	5000	4.2	13J10
Max. Supply Volts, 330 Max. Grid-No. 2 Volts, 110					Max. Peak Positive Grid-No. 1 Volts, 60 Max. DC Cathode mA, 13					
			For other characteristics, refer to Type 6Z10/6J10							13Z10
			For other characteristics, refer to Type 6J5							14A4
250	—12.5V	250	5.5	32	70000	3000	—	7500	2.8	14A5