

RCA Type	Name	Out-line	Terminal Diagram	Heater or Filament (F)		Use Values to right give operating conditions and characteristics for indicated typical use
				Volts	Amperes	
12AL8	Medium-Mu Triode—Power Tetrode	6E	9GS	10.0 to 15.9	0.55 approx. at 12.6 V	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
12AT7WA♦ 12AT7WB♦	High-Mu Twin Triode	6B	9A	12.6 6.3	0.15 0.3	Class A Amplifier
12AU7	Medium-Mu Twin Triode	6B	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AV7	Medium-Mu Twin Triode	6B	9A	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12AW6	Sharp-Cutoff Pentode	5C	7CM	12.6	0.15	Class A Amplifier
12AX4-GT 12AX4-GTA	Half-Wave Rectifier	13D 13D	4CG	12.6 12.6	0.6 0.6	Television Damper Service
12AX7	High-Mu Twin-Triode	6B	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AY3	Half-Wave Rectifier	11D	9HP	12.6	0.6	Television Damper Service
12AZ7	High-Mu Twin-Triode	6B	9A	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12B8GT	High-Mu Triode—Remote-Cutoff Pentode	—	8T	12.6	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12BA7	Pentagrid Converter	6E	8CT	12.6	0.15	Converter
12BD6	Remote-Cutoff Pentode	5C	7BK	12.6	0.15	Class A Amplifier
12BF6	Twin Diode—Medium-Mu Triode	5C	7BT	12.6	0.15	Triode Unit as Class A Amplifier
12BH7	Medium-Mu Twin Triode	6E	9A	6.3 12.6	0.6 0.3	Vertical Deflection Amplifier
12BK5	Beam Power Tube	6E	9BQ	12.6	0.6	Class A Amplifier
12BL6	Remote-Cutoff Pentode	5C	7BK	10.0 to 15.9	0.15 approx. at 12.6V	Class A Amplifier
12BN6	Beam Tube	5D	7DF	12.6	0.15	Limiter and Discriminator
12BR7	Twin Diode—High-Mu Triode	6B	9CF	6.3 12.6	0.45 0.225	Triode Unit as Class A Amplifier
12BS3	Half-Wave Rectifier	11D	9HP	12.6	0.6	Television Damper Service
12BT3	Half-Wave Rectifier	8C	12BL	12.6	0.45	Television Damper Service
12BV7	Sharp-Cutoff Pentode	6E	9BF	6.3 12.6	0.6 0.3	Class A Amplifier
12BW4	Full-Wave Rectifier	6E	9DJ	6.3	0.9	With Capacitive Input Filter With Inductive Input Filter
12BY7	Sharp-Cutoff Pentode	6E	9BF	6.3 12.6	0.6 0.3	Class A Amplifier
12BZ7	High-Mu Twin Triode	6E	9A	12.6	0.3	Each Unit as Class A Amplifier
12C8	Twin Diode—Semiremote-Cutoff Pentode	3	8E	12.6	0.15	Pentode Unit as RF Amplifier
12CK3	Half-Wave Rectifier	30B	9HP	12.6	0.6	Television Damper Service
12CN5	Remote-Cutoff Pentode	5D	7CV	10.0 to 15.9	0.45 approx. at 12.6V	Class A Amplifier
12CR6	Diode-Remote-Cutoff Pentode	5C	7EA	6.3	0.3	Pentode Unit as Class A Amplifier
12CT8	Medium-Mu Triode—Sharp-Cutoff Pentode	6E	9DA	12.6	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier

♦ Industrial Type

Plate Volts	Grid Bias or Cathode Resistor	Screen Grid Volts	Screen Grid Cur- rent mA	Plate Cur- rent mA	AC Plate Resist- ance Ohms	Trans- conduc- tance Micromhos	Amplifi- cation Factor	Power		RCA Type	
								Load Ohms	Out- put Watts		
12.6	— 0.9V (across 2.2 megohm res.)	—	—	.5	13000	1000	13	—	—	12AL8	
Grid-No. 2 (Control Grid) Volts, —.5 (across 2.2 megohm res.)								Ampl. Factor (Grid-No. 2 to Plate) 7.2			
Grid-No. 1 (Space-Charge Grid) Volts, 12.6 Transcond. (Grid-No. 2 to Plate), 15000 μ mhos								Grid-No. 1 mA, 75 Plate mA, 40 Plate Resistance, 480 ohms			
For other characteristics, refer to Type 12A77										12A77WA* 12A77WB*	
100	0V	—	—	11.8	6250	3100	19.5	—	—	12AU7	
250	— 8.5V	—	—	10.5	7700	2200	17	—	—	12AU7	
150	56 Ω	—	—	18	4800	8500	41	Cutoff Volts, —12		12AV7	
For other characteristics, refer to Type 6AG5										12AW6	
Max. Peak Inverse Plate Volts, 4400					Max. Peak Heater-Cathode Volts: { —4400 +300					12AX4- GT	
Max. Peak Plate mA, 750					DC component must not exceed 900 volts					12AX4- GTA	
Max. DC Plate mA, 125											
100	— 1V	—	—	0.5	80000	1250	100	—	—	12AX7	
250	— 2V	—	—	1.2	62500	1600	100	—	—	12AX7	
For other ratings, refer to Type 6AY3										12AY3	
100	270 Ω	—	—	3.7	15000	4000	60	—	—	12AZ7	
250	200 Ω	—	—	10.0	10900	5500	60	—	—	12AZ7	
90	0V	—	—	2.8	37000	2400	90	—	—	12B8GT	
90	— 3V	90	2	7	200000	1800	—	—	—	12B8GT	
For other characteristics, refer to Type 6BA7										12BA7	
For other characteristics, refer to Type 6BD6										12BD6	
250	— 9V	—	16	1900	9.5	8500	—	Power Output, 300 milliwatts		12BF6	
Max. DC Plate Volts, 450				Absolute Max. Peak Positive-Pulse Plate Volts, 1500							12BH7
Max. DC Plate mA, 20				Max. Plate Dissipation (Each Unit), 3.5 watts							
250	— 5V	250	3.5	35	100000	8500	—	6500	3.5	12BK5	
12.6	Grid-No. 1 Supply Volts, 0	12.6	0.5	1.35	500000	1350	Grid-No. 1 and Grid-No. 3 Volts for transcond. of 10 micromhos, —5			12BL6	
For other characteristics, refer to Type 6BN6/6KS6										12BN6	
100	270 Ω	—	—	3.7	15000	4000	60	—	—	12BR7	
250	200 Ω	—	—	10	10900	5500	60	—	—	12BR7	
For other ratings, refer to Type 6BS3										12BS3	
Max. Peak Inverse Plate Volts, 3300					Max. Average Plate mA, 165					12BT3	
Max. Peak Plate mA, 1000					Max. Peak Heater-Cathode Volts: { —3300 +300						
250	68 Ω	150	6	27	85000	13000	—	—	—	12BV7	
250	— 8V	180	—	0.5	—	—	—	—	—	12BV7	
For other characteristics, refer to 6BW4										12BW4	
250	100 Ω	180	5.75	26	93000	11000	—	—	—	12BY7	
250	—2V	—	—	2.5	31800	3200	100	—	—	12BZ7	
250	— 3V	125	2.3	10	600000	1325	—	—	—	12C8	
For other characteristics, refer to Type 6CK3										12CK3	
12.6	—	12.6	3.5	4.5	40000	3800	{ Grid-No. 1 Supply Volts, 0 Grid-No. 1 Res., 2.2 megohms }			12CN5	
For other characteristics, refer to Type 6CR6										12CR6	
150	150 Ω	—	—	9	8200	4900	40	—	—	12CT8	
200	82 Ω	125	3.4	15	150000	7000	—	—	—	12CT8	