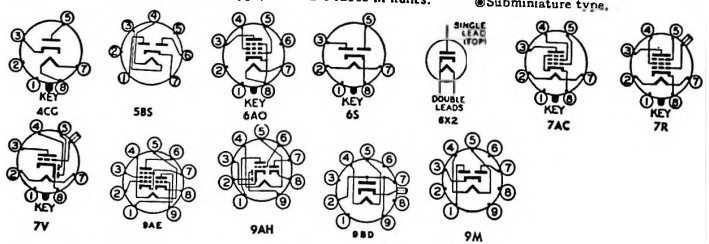
Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads: Input	Output	Grid-plate
6U8	Triode-Pentode	9AE	6-2	Htr	6.3	0.45	300	150	Pentode Section		
							300	—	Triode Section		
6V3 *6V3-A*	Half-Wave High-Vacuum Rectifier	9BD	6-7 T-X	Htr	6.3	1.75	Tube Voltage Drop: 19 v at 250 ma d-c				
6V4	Full-Wave, High-Vacuum Rectifier	9M	6-4	Htr	6.3	0.6	Tube Voltage Drop: ♠ 20 v at 45 ma d-c				
6V5-GT	Beam Power Amplifier	6AO	9-11	Htr	6.3	0.45	315	285	—	—	—
6V6	Beam Power Amplifier	7AC	8-6	Htr	6.3	0.45	315	285	Single Tube		
									2 Tubes, Push-pull		
6V6-GT	Beam Power Amplifier	7AC	9-11 or 9-41	Htr	6.3	0.45	315	285	Single Tube		
							—	—	2 Tubes, Push-Pull		
							315	—	Triode Connection (G_2 & P tied)		
6V7-G	Duplex-Diode Medium-Mu Triode	7V	12-8	Htr	6.3	0.3	250	—	2.0	3.5	1.7
6V8	Triple-Diode, High-Mu Triode	9AH	6-2	Htr	6.3	0.45	300	—	—	—	—
6W2	Half-Wave High-Voltage Rectifier	6X2	T-X	Htr	6.3	0.08	—	—	—	—	—
6W4-GT	Half-Wave High-Vacuum Rectifier	4CG	9-11 or 9-41	Htr	6.3	1.2	Tube Voltage Drop: 21 v at 250 ma d-c				
6W5-G	Full-Wave High-Vacuum Rectifier	6S	12-7	Htr	6.3	0.9	Tube Voltage Drop: ♠ 24 v at 90 ma d-c				
6W6-GT	Beam Power Amplifier	7AC	9-11 or 9-41	Htr	6.3	1.2	300	150	Pentode Connection		
							300	—	Triode Connection (G_2 & P tied)		
6W7-G	Sharp-Cutoff Pentode	7R	12-8	Htr	6.3	0.15	300	300	5.0	8.5	0.007 ♣
6X2	Half-Wave High-Voltage Rectifier	6X2	T-X	Htr	6.3	0.09	—	—	—	—	—
6X4	Full-Wave High-Vacuum Rectifier	5BS	5-3	Htr	6.3	0.6	Tube Voltage Drop: ♠ 22 v at 70 ma d-c				
6X5 6X5-GT	Full-Wave High-Vacuum Rectifier	6S	8-6 9-11	Htr	6.3	0.6	Tube Voltage Drop: ♠ 22 v at 70 ma d-c				

Metal tubes are shown in bold-face type, *miniature tubes in italics.* ◉Subminiature type.



Service	Plate Volts	Screen Volts	Neg Grid Volts	Plate Milliamperes	Screen Milliamperes	R_p, Ohms	G_m, μmhos	μ Factor	Load for Rated Output, Ohms	Power Output, Watts	Tube Type
Class A Amplifier	250	110	R_k = 68	10	3.5	400,000§	5,200	—	—	—	*6U8*
Class A Amplifier	150	—	R_k = 56	18	—	5,000§	8,500	40	—	—	
TV Damper Service₃	Max d-c output current = 135 ma; max peak inverse voltage ⊡ = 6000 volts; max peak current = 800 ma										*6V3* *6V3-A*
Full-Wave Rectifier	Max d-c output current = 90 ma; rms supply voltage per plate = 350 volts										*6V4*
Class A Amplifier	315	225	13	34†	2.2†	77,000§	3,750	—	8,500	5.5	6V5-GT
	250	250	12.5	45†	4.5†	52,000§	4,100	—	5,000	4.5	
Class A Amplifier	315	225	13	34†	2.2†	80,000§	3,750	—	8,500	5.5	**6V6**
	250	250	12.5	45†	4.5†	50,000§	4,100	—	5,000	4.5	
	180	180	8.5	29†	3†	50,000§	3,700	—	5,500	2.0	
Class AB_1 Amplifier	285	285	19	70†	4†	70,000§	3,600	—	8000‡	14	
	250	250	15	70†	5†	60,000§	3,750	—	10000‡	10	
Class A Amplifier	315	225	13	34†	2.2†	80,000§	3,750	—	8,500	5.5	6V6-GT
	250	250	12.5	45†	4.5†	50,000§	4,100	—	5,000	4.5	
	180	180	8.5	29†	3.0†	50,000§	3,700	—	5,500	2.0	
Class AB_1 Amplifier	285	285	19	70†	4.0†	—	—	—	8,000‡	14	
	250	250	15	70†	5.0†	—	—	—	10000‡	10	
Vertical Deflection Amplifier	250	—	12.5	49.5	—	1,960§	5,000	9.8	—	—	
	Max positive pulse plate voltage⊡ = 1200 volts; max plate dissipation = 9 watts; max d-c cathode current = 35 ma										
Class A Amplifier.	250	—	20	8.0	—	7,500	1,100	8.3	20,000	0.350	6V7-G
Class A Amplifier	250	—	3.0	1.0	—	58,000§	1,200	70	—	—	*6V8*
	100	—	1.0	0.8	—	54,000§	1,300	70	—	—	
TV Flyback Rectifier₃	Max d-c output current = 0.5 ma; max peak inverse voltage ⊡ = 25,000 volts										*6W2*
TV Damper Service₃	Max d-c output current = 125 ma; max peak inverse voltage ⊡ = 3850 volts; max peak current = 750 ma										6W4-GT
Full-Wave Rectifier	Max d-c output current = 90 ma; max peak inverse voltage = 1250 volts; max rms supply voltage per plate = 325 volts; max peak current per plate = 270 ma										6W5-G
Class A Amplifier	200	125	R_k = 180	46†	2.2†	28,000§	8,000	—	4,000	3.8	6W6-GT
	110	110	7.5	49†	4.0†	13,000§	8,000	—	2,000	2.1	
Vertical Deflection Amplifier	225	—	30	22	—	1,600§	3,800	6.2	—	—	
	Max positive pulse plate voltage⊡ = 1200 volts; max plate dissipation = 7.5 watts; max d-c cathode current = 40 ma										
Class A Amplifier	250	100	3.0	2.0	0.5	1,500,000§	1,225	—	—	—	6W7-G
TV Flyback Rectifier₃	Max d-c output current = 0.2 ma; max peak inverse voltage = 17,000 volts; max peak current = 80 ma										*6X2*
Full-Wave Rectifier	Max d-c output current = 70 ma; max peak inverse voltage = 1250 volts; rms supply voltage per plate = 325 volts; max peak current per plate = 210 ma										*6X4*
Full-Wave Rectifier	Max d-c output current = 70 ma; max peak inverse voltage = 1250 volts; rms supply voltage per plate = 325 volts; max peak current per plate = 210 ma										6X5 6X5-GT

§ Approximate.
▲ Without external shield.
† Zero signal.
♦ Grids 3 and 5 are screen. Grid 4 is signal-input grid.
Conversion transconductance.
♣ Maximum.
♥ Grids 2 and 4 are screen. Grid 3 is signal-input grid.
⊡ Screen supply voltage.
⊞ Absolute maximum rating.
‡ Plate-to-plate.
♠ Per section.
⊕ For both sections.
* Minimum.
¶ Heater warm-up time controlled for series-string service.
‖ Plate supply voltage.
‖ Input plate.
₂—The duration of the pulse voltage must not exceed 15 percent of one scanning cycle.
₁—Section 1.
₂—Section 2.
₄—A resistor of 3 ohms must be put in series with heater.