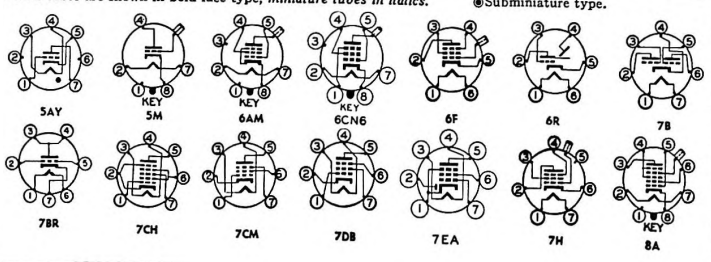
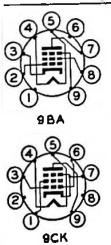
Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads: Input	Output	Grid-plate
6CM6	Beam Power Amplifier	9CK	6-3	Htr	6.3	0.45	315	285	Pentode Connection		
							315	—	Triode (G_2 & P tied) or Pentode Connection		
							315	285			
6CN6	Beam Power Amplifier	6CN6	T-X	Htr	6.3	1.4	800	400	18▲	6.5▲	1.2 ♣▲
6CQ6	Remote-Cutoff RF Pentode	7DB	5-2	Htr	6.3	0.2	300	300	7.0▲	4.5▲	0.01 ♣▲
6CR6	Diode Remote-Cutoff Pentode	7EA	5-2	Htr	6.3	0.3	300	150	—	—	—
6CS6	Dual-Control Heptode	7CH	5-2	Htr	6.3	0.3	300	100	—	—	—
6CU6	Beam Power Amplifier	6AM	T-X	Htr	6.3	1.2	550‡	175	15▲	7.0▲	0.55 ▲
6D4	Gas Triode	5AY	5-2	Htr	6.3	0.25	Tube Voltage Drop:§ 16 v at 25 ma d-c				
6D6	Remote-Cutoff RF Pentode	6F	12-2	Htr	6.3	0.3	300	150	4.7▲	6.5▲	0.007 ♣
6D7	Sharp-Cutoff Pentode	7H	12-2	Htr	6.3	0.3	300	125	5.2▲	6.8▲	0.01▲ ♣
6D8-G	Pentagrid Converter	8A♦	12-8	Htr	6.3	0.15	300	100	Osc I_{g1} = 0.4 ma R_{g1} = 50,000 ohms		
6DA6	Remote-Cutoff RF Pentode	9BA	T-X	Htr	6.3	0.2	300	300	5.5▲	5.1▲	0.002 ♣▲
6DB6	Dual-Control Pentode	7CM	5-2	Htr	6.3	0.3	300	150	6.0▲	5.0▲	0.0035 ♣▲
6DC6	Semi-Remote-Cutoff Pentode	7CM	5.2	Htr	6.3	0.3	300	150	6.5▲	2.0▲	0.02 ♣▲
6DE6	Sharp-Cutoff RF Pentode	7CM	5-2	Htr	6.3	0.3	300	150	6.3▲	1.9▲	0.02 ♣▲
6E5	Electron-Ray Indicator	6R	9-26	Htr	6.3	0.3	250‡	Max target voltage = 250 Min target voltage = 125			
6E6	Twin-Triode Power Amplifier	7B	14-1	Htr	6.3	0.6	250	—	Both Sections in Push-pull		
6E7	Remote-Cutoff RF Pentode	7H	12-2	Htr	6.3	0.3	300	100	5.2▲	6.8▲	0.01▲
6F4	High-Frequency Triode (Acorn)	7BR	4-2	Htr	6.3	0.225	150	—	1.9▲	0.6▲	1.8▲
6F5 6F5-G 6F5-GT	High-Mu Triode	5M	8-4 12-8 9-17 or 9-47	Htr	6.3	0.3	300	—	—	—	—

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	# Factor	Load for Rated Output, Ohms	Power Output, Watts	Tube Type
Class A Amplifier Vertical Deflection Amplifier	250	250	12.5	45†	4.5†	50,000§	4,100	—	5,000	4.5	*6CM6*
	Max positive pulse plate voltage◉ = 2000 volts; max plate dissipation = 3.0 watts; max screen dissipation (pentode connection only) = 1.75 watts; max d-c cathode current = 40 ma										
Horizontal Deflection Amplifier	275	275	9.0	91	11	20,000	14,000	—	—	—	6CN6
	Max positive pulse plate voltage◉ = 8000 volts; max plate dissipation = 25 watts; max screen dissipation = 8.0 watts; max d-c cathode current = 200 ma										
Class A Amplifier	250	200	2.5	7.8	2.0	—	2,500	—	—	—	*6CQ6*
Class A Amplifier	250	100	2.0	9.5	3.0	200,000§	1,950	—	—	—	*6CR6*
Gated Amplifier	100	30	1.0	1.0	1.3	1,000,000§	1,100	E_{c3} = 0 volts			*6CS6*
	100	30	0	0.8	5.5	700,000	—	E_{c3} = −1.0 volts			
	10	30	0	2.0	4.5	—	—	E_{c3} = 0 volts			
Horizontal Deflection Amplifier	250	150	22.5	55	2.1	20,000§	5,500	—	—	—	6CU6
	60	150	0	225	25	—	—	—	—	—	
	Max positive pulse plate voltages◉ = 6000 volts; max plate dissipation = 11 watts; max screen dissipation = 2.5 watts; max d-c cathode current = 110 ma										
Relay Control	Max d-c cathode current = 25 ma; max voltage between elements = 450 volts; max peak cathode current = 100 ma										*6D4*
Class A Amplifier	250	100	3.0	8.2	2.0	800,000§	1,600	—	—	—	6D6
Class A Amplifier	250	100	3.0	2.0	0.5	1,000,000*	1,225	—	—	—	6D7
Converter	250	100	3.0	3.5	2.6	400,000§	550 #	E_{c3} (Osc Plate) = 250 thru 20,000 ohms I_{c3} = 4.3 ma			6D8-G
Class A Amplifier	250	100	2.0	9.0	3.0	1,000,000*	3,600	—	—	—	*6DA6*
Class A Amplifier	150	150	1.0	5.8	6.6	50,000§	2,050	E_{c3} = −3.0 volts			*6DB6*
Class A Amplifier	200	150	R_k = 180	9.0	3.0	500,000§	5,500	—	—	—	*6DC6*
Class A Amplifier	200	150	R_k = 180	9.5	2.8	600,000§	6,200	—	—	—	*6DE6*
Tuning Indicator	Plate voltage = 250 thru 1 meg, Target voltage = 250 (E_g = −8 v, Shadow = 0°) (E_g = 0 v, Shadow = 90°, Plate current = 0.24 ma, Target current§ = 4 ma)										6E5
Class A Amplifier	250	—	27.5	18†♠	—	3,500 ♠	1,700 ♠	6.0 ♠	14,000 ‡	1.6	6E6
Class A Amplifier	250	100	3.0	8.2	2.0	800,000	1,600	—	—	—	6E7
Class A Amplifier	80	—	R_k = 105	13	—	2,900	5,800	17	—	—	6F4
Class A Amplifier	250	—	2.0	0.9	—	66,000§	1,500	100	—	—	6F5 6F5-G 6F5-GT
	100	—	1.0	0.4	—	85,000§	1,150	100	—	—	



§ 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.
1—Section 1.
2—Section 2.
3—The duration of the pulse voltage must not exceed 15 percent of one scanning cycle.
4—A resistor of 3 ohms must be put in series with heater.