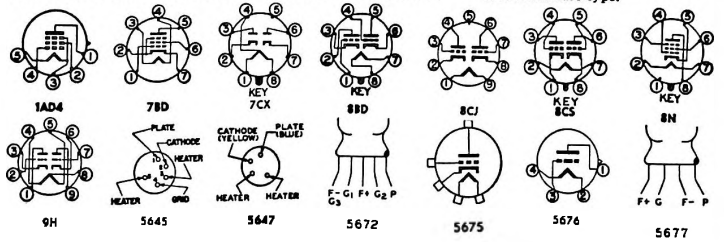
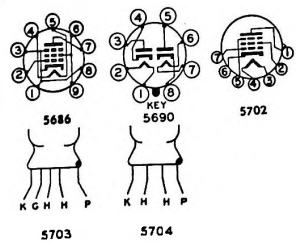
Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads: Input	Output	Grid-plate
5646 ◉	High-Mu Triode	5645	T-X	Htr	6.3	0.15	150	—	2.2▲	1.0▲	1.3▲
5647 ◉	High-Frequency Diode	5647	T-X	Htr	6.3	0.15	Tube Voltage Drop: 2.8 v at 18 ma d-c				
5654	Sharp-Cutoff RF Pentode (Special 6AK5)	7BD	5–1	Htr	6.3	0.175	180	125	4.0	2.9	0.02 ♣
5670	High-Frequency Twin Triode (Special 2C51)	8CJ	6-1	Htr	6.3	0.35	300	—	2.2▲	1.0▲	1.1▲
5672 ◉	Power Amplifier Pentode	5672	2–1	Fil	1.25 DC	0.05	90	90	—	—	—
5675	Medium-Mu Triode (Pencil)	5675	T-X	Htr	6.3	0.135	150	—	2.3▲	0.09▲	1.3▲
5676 ◉	Medium-Mu Triode	5676	T-X	Fil	1.25 DC	0.12	135	—	1.3	4.0	2.0
5677 ◉	Medium-Mu Triode	5677	T-X	Fil	1.25 DC	0.06	135	—	1.3	3.8	2.0
5678 ◉	Pentode Amplifier	1AD4	T-X	Fil	1.25 DC	0.05	90	67.5	3.3	3.8	0.01 ♣
5679	Twin Diode (Special 7A6)	7CX	9–30	Htr	6.3	0.15	Tube Voltage Drop: ♠ 11 v at 16 ma d-c				
5686	Beam Power Amplifier	5686	6–2	Htr	6.3	0.35	250 250	250 250	6.5	8.5	0.08 ♣
5687	Medium-Mu Twin Triode	9H	6–2	Htr	{ 6.3 { 12.6	0.9 0.45 }	300	—	4.0▲	0.6₁▲ 0.5₂▲	4.0▲
5690	Full-Wave High-Vacuum Rectifier	5690	T-X	Htr	{ 12.6 { 6.3	1.2 } 2.4 }	Tube Voltage Drop: ♠ 17 v at 150 ma d-c				
5691	High-Mu Twin Triode (Special 6SL7-GT)	8BD	9–37	Htr	6.3	0.6	275 ⊞	—	—	—	—
5692	Medium-Mu Twin Triode (Special 6SN7-GT)	8BD	9–37	Htr	6.3	0.6	275 ⊞	—	—	—	—
5693	Sharp-Cutoff Pentode (Special 6SJ7)	8N	8–1	Htr	6.3	0.3	300 ⊞	125 ⊞	5.3	6.2	0.005 ♣
5694	Medium-Mu Twin Triode	8CS	14–3	Htr	6.3	0.8	300	—	Both Sections in Parallel		
5702 ◉	RF Pentode	5702	3–7	Htr	6.3	0.2	180	140	4.4	3.5	0.03 ♣
5703 ◉	Medium-Mu Triode	5703	3–6	Htr	6.3	0.2	250	—	2.6	0.7	1.2
5704 ◉	Diode	5704	T-X	Htr	6.3	0.15	Tube Voltage Drop: 2 v at 9 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	100	—	R_k = 820	1.4	—	29,000	2,400	70			5646 ◉
Half-Wave Rectifier	Max d-c output current ⊞ = 10 ma; max peak inverse voltage ⊞ = 460 volts; max rms supply voltage ⊞ = 165 volts; max peak current ⊞ = 60 ma										5647 ◉
Class A Amplifier	120	120	R_k = 200	7.5	2.5	340,000§	5,000	—			*5654*
Class A Amplifier ♠ Class AB_1 Amplifier	150 300	— —	R_k = 240 R_k = 800 ⊕	8.2 9.8†	— —	6,400§ —	5,500 —	35 —	— 27,000 ‡	— 1.0	*5670*
Class A Amplifier	67.5	67.5	6.5	3.25	1.1	—	650	—	20,000	0.065	5672 ◉
Class A Amplifier	135	—	R_k = 68	24	—	3,225	6,200	20	—	—	5675
Class A Amplifier	135	—	5.0	4.0	—	—	1,600	15	—	—	5676 ◉
Class A Amplifier	135	—	6.0	1.9	—	—	650	13.5	—	—	5677 ◉
Class A Amplifier	67.5	67.5	0	1.8	0.48	1,000,000	1,100	—	—	—	5678 ◉
Half-Wave Rectifier	Max d-c output current per plate = 8 ma; max rms supply voltage per plate = 150 volts; max peak current per plate = 45 ma										5679
Class A Amplifier Class C Amplifier	250 250	250 250	12.5 50	27† 40	3.0† 10.5	45,000§ Input Signal = 0.15 watt§	3,100	—	9,000 —	2.7 6.5§	*5686*
Class A Amplifier ♠	180 250	— —	7.0 12.5	21 12.5	— —	2,100 3,000§	8,250 5,500	17.5 16.5	— —	— —	*5687*
Full-Wave Rectifier	Max d-c output current = 125 ma; max peak inverse voltage = 1,120 volts; rms supply voltage per plate = 350 volts; max peak current per plate = 375 ma										5690
Class A Amplifier ♠	250	—	2.0	2.3	—	44,000	1,600	70	—	—	5691
Class A Amplifier ♠	250	—	9.0	6.5	—	9,100	2,200	20	—	—	5692
Class A Amplifier	250	100	3.0	3.0	0.85	1,000,000 *	1,650	—	—	—	5693
Class A Amplifier	294 250	— —	6.0 5.0	7.0 6.0	— —	11,000 11,300	3,200 3,100	35 35	— —	— —	5694
Class A Amplifier	120	120	R_k = 200	7.5	2.5	340,000	5,000	—			5702 ◉
Class A Amplifier	120	—	R_k = 220	9.0	—	—	5,000	25			5703 ◉
Half-Wave Rectifier	Max d-c output current = 9 ma; max peak inverse voltage = 420 volts; max rms supply voltage = 150 volts; max peak current = 54 ma										5704 ◉



▲Without external shield.
⊞Absolute maximum rating.
♣Maximum.
♠Per Section
1—Section 1.
⊕For both sections.
† Zero signal.
§ Approximate.
‡ Plate-to-plate.
2—Section 2.
* Minimum.