SYLVANIA TUBES — AVERAGE CHARACTERISTICS

Type	Construction			Emitter			Note (1) (2) Capacitances in μμf.			Use	Plate Volts	Negative Grid Volts	Screen Volts	Plate Current Ma.	Screen Current Ma.	Plate Resistance Ohms	Transconductance Micromhos	Amplification Factor	Ohms Load for Stated Power Output	Power Output Milliwatts	Type
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	Amps.	Cgp.	Cin.	Cout												
6DT6	T-5½	Pentode	7EN	Cathode	6.3	.3	....	....	....	Class A1 Amp	150	560 ■	0	1.1	2.1	150,000	Gm for G1 to P = 615; Gm for G3 to P = 515				6DT6
										F.M. Det.	250	560 ■	100	0.22	5.5	(For this Type Ep and Ec2 are Supply Voltages).				
6E5	T-9	Electron Ray	6R-0-0	Cathode	6.3	0.30	....	....	....	Indicator	100§	(Series Plate Resistor 0.5 Meg. Target Current 1.0 Ma. Grid Bias = 3.3 for 90° Shadow)									6E5
											250§	(Series Plate Resistor 1.0 Meg. Target Current 4.0 Ma. Grid Bias = 8.0 for 90° Shadow.)									
6E6	ST-14	Duotriode	7B-0-0	Cathode	6.3	0.60	....	....	....	Power Amp. (1 Section)	180	20.0	.....	11.5	....	4,300	1,400	6.0	15,000¶	750	6E6
											250	27.5	.....	18.0	....	3,500	1,700	6.0	14,000¶	1,600	
6E7	ST-12	Pentode	7H-5-6	Cathode	6.3	0.30	....	....	....	Amplifier	Characteristics Same as Type 6D6.										6E7
6F4	Acorn	Triode	7BR-0-0	Cathode	6.3	0.225	1.9*	2.0*	0.6*	Amplifier	80	150 ■	.....	13.0	....	2,900	5,800	17	....	....	6F4
6F5	Metal	Triode	5M-1-0	Cathode	6.3	0.30	2.3	5.5	4.0	Amplifier	250	2.0	.....	0.9	....	66,000	1,500	100	....	....	6F5
6F5GT	T-9		5M-0-0				2.8*	2.2*	3.2*												6F5GT
6F6	Metal	Pentode	7S-1-0	Cathode	6.3	0.70	....	....	....	Power Amp.	250	16.5	250	34.0	6.5	80,000	2,500	.....	7,000	3,200	6F6
6F6G/GT	ST-14		7S-0-0								285	20.0	285	38.0	7.0	78,000	2,550	.....	7,000	4,800	6F6G/GT
	T-9									P.P.A1 Amp.	315	24.0	285	62.0	12.0	(Current & Output for Two Tubes)			10,000¶	11,000	
										P.P.AB2 Amp.	375	26.0	250	34.0	5.0	(Current & Output for Two Tubes)			10,000¶	18,000	
6F7	ST-12	Pent. Triode	7E-0-6	Cathode	6.3	0.30	.008m	3.2	12.5	Pent. Amp.	100	3.0	100	6.3	1.6	290,000	1,050	.....	Pentode Section		6F7
6F7S			7E-6-6							Pent. Amp.	250	3.0	100	6.5	1.5	850,000	1,100	.....	Pentode Section		6F7S
							2.0*	2.5*	3.0*	Tri. Amp.	100	3.0	.....	3.5	....	16,200	525	8.5	Triode Section		
6F8G	ST-12	Duotriode	8G-0-0	Cathode	6.3	0.60	3.8*	3.2*	1.0*	Amplifier	250	8.0	.....	9.0	....	7,700	2,600	20	(One Section)		6F8G
							3.2*	1.9*	1.9*	Inverter	250	5.5	Plate Load 50,000 Ohms Per Plate, Self Bias Resistor 1,150 Ohms, Voltage Amplification 29, Output Volts 65 RMS, for Inverter Service.								
6G5	Now Known as Type 6U5																				6G5
6G6G	ST-12	Pentode	7S-0-0	Cathode	6.3	0.15	....	....	....	Power Amp.	135	6.0	135	11.5	2.0	170,000	2,100	.....	12,000	600	6G6G
											180	9.0	180	15.0	2.5	175,000	2,300	.....	10,000	1,100	
6H4GT	T-9	Diode	5AF-0-0	Cathode	6.3	0.15	....	....	....	Rectifier	100	....	.....	4.0	....	.....	.....	.....	....	....	6H4GT
6H6, 6H6GT	T-9, Metal	Duodiode	7Q-0-1	Cathode	6.3	0.30	....	....	....	Rectifier	117 A-C Volts Per Plate, RMS, 8.0 Ma. Output Current Per Plate.										6H6GT, 6H6
6J4	T-5½	Triode	7BQ-0-0	Cathode	6.3	0.40	....	....	....	Amplifier	150	200 ■	.....	15.0	....	4,500	12,000	55	....	....	6J4
6J5	Metal	Triode	6Q-1-0	Cathode	6.3	0.30	3.4	3.4	3.6	Amplifier	250	8.0	.....	9.0	....	7,700	2,600	20	....	....	6J5
6J5GT	T-9						3.8	4.2	5.0												6J5GT
6J6	T-5½	Duotriode	7BF-0-0	Cathode	6.3	0.45	1.5	2.6	1.6	R-F Amp.#	100	50 ■	.....	8.5	....	7,100	5,300	38	....	....	6J6
							1.5	2.6	1.0	Osc. Amp.	150	10	.....	30	....	Push-pull Class C Operation				3,500	
6J7	Metal	Pentode	7R-1-1	Cathode	6.3	0.30	.005m	7.0	12.0	R-F Amp.	250	3.0	100	2.0	0.5	1.0 Meg.+	1,225	.....	....	....	6J7
6J7G	ST-12		7R-0-1				.007m	5.4	12.0												6J7G
6J7GT	T-9		7R-1-1				.007m	5.4	12.0												6J7GT
6J8G	ST-12	Tri. Heptode	8H-0-8	Cathode	6.3	0.30	.02m	4.4	10.0	Mixer Oscillator	250	3.0	100	1.3	2.9	4.0 Meg.	290▲	(Heptode Section)			6J8G
											250 Plate Supply Thru 20,000 Res., Grid Resistor 50,000, Grid Current 0.4 Ma. Plate Current 5.0 Ma. (Triode Section)										
6K4	T-3	Triode	6K4	Cathode	6.3	0.15	2.2*	2.4*	0.85*	Osc. Amp.	100	2.0	.....	12.0	....	3,650	5,500	20	....	....	6K4
6K5G	ST-12	Triode	5U-0-0	Cathode	6.3	0.30	2.0	2.9	5.75	Amplifier	100	1.5	.....	0.35	....	78,000	900	70	....	....	6K5G
6K5GT	T-9		5U-0-0				2.8	2.9	4.7		250	3.0	.....	1.10	....	50,000	1,400	70	....	....	6K5GT
6K6GT	T-9	Pentode	7S-0-0	Cathode	6.3	0.40	....	....	....	Power Amp.	100	7.0	100	9.0	1.6	104,000	1,500	.....	12,000	350	6K6GT
											250	18.0	250	32.0	5.5	68,000	2,300	.....	7,600	3,400	
											315	21.0	250	25.5	4.0	75,000	2,100	.....	9,000	4,500	
6K7	Metal	Pentode	7R-1-0	Cathode	6.3	0.30	.005m	7.0	12.0	R-F Amp.	100	1.0	100	9.5	2.7	150,000 ♦	1,650	.....	....	....	6K7
6K7G	ST-12		7R-0-8				.007m	5.0	12.0		250	3.0	100	7.0	1.7	800,000 ♦	1,450	.....	....	....	6K7G
6K7GT	T-9		7R-1-8				.005m	4.6	12.0		250	3.0	125	10.5	2.6	600,000 ♦	1,650	.....	....	....	6K7GT
6K8	Metal	Tri. Hexode	8K-1-0	Cathode	6.3	0.30	.03m	6.6	3.5	Mixer Osc.	250	3.0	100	2.5	6.0	600,000	350▲	(Hexode Section)			6K8
6K8G	ST-12		8K-0-8				.08m	4.6	4.8		100	Grid Resistor 50,000 Plate Current 3.8 Ma., Mutual Conductance 3,000						(Triode Section not Oscillating)			6K8G
6K8GT	T-9		8K-1-8				.08m	5.0	4.3												6K8GT
6L4	Acorn	Triode	7BR-0-0	Cathode	6.3	0.225	1.6*	1.8*	0.5*	Osc. Amp.	80	150 ■	.....	9.5	....	4,400	6,400	28	....	....	6L4
6L5G	ST-12	Triode	6Q-0-0	Cathode	6.3	0.15	2.8	2.8	5.0	Amplifier	100	3.0	.....	4.0	....	10,000	1,500	15	....	....	6L5G
											250	9.0	.....	8.0	....	9,000	1,900	17	....	....	
6L6	Metal	Beam Amp.	7S-1-0	Cathode	6.3	0.90	0.9*	11.5*	9.5*	Power Amp.	250	14.0	250	72.0	5.0	22,500	6,000	.....	2,500	6,500	6L6
6L6G	ST-16		7S-0-0								350	18.0	250	54.0	2.5	33,000	5,200	.....	4,200	10,800	6L6G
6L6GA	ST-14		7S-0-0							P.P.A1 Amp.	270	17.5	250	134.0	11.0	23,500	5,700	.....	5,000¶	17,500	6L6GA
6L6GB	T-12		7S-0-0							P.P.AB1 Amp.	360	22.5	270	88.0	5.0	(Current & Output for Two Tubes)			6,600¶	26,500	6L6GB
										P.P.AB2 Amp.	360	22.5	270	88.0	5.0	(Current & Output for Two Tubes)			3,800¶	47,000	
6L6GAY	ST-14	Beam Amp.	7S-0-0	Cathode	6.3	.90	....	....	....	Power Amp.	Low Loss Base. Characteristics Same as 6L6GA.										6L6GAY
6L7	Metal	Heptode	7T-1-1	Cathode	6.3	0.30	.001m	7.5	11.0	Amplifier	250	6.0	150	3.3	9.2	1 Meg.+	350▲	(G3 = Neg. 15 Volts)			6L7
6L7G	ST-12		7T-0-8				.005m	6.0	10.0	Mixer Amp.	250	3.0	100	5.3	6.5	600,000	1,100	(G3 = Neg. 3.0 Volts)			6L7G
6M3	T-12	Diode	6M3	Cathode	6.3	3.0	....	....	....	H-W Rect.	Television Service. Peak Inverse Volts = 6 KV. Output = 320 Ma.										6M3
6M5	T-6½	Pentode	9N-0-0	Cathode	6.3	0.71	1.0m	10.0	6.2	Power Amp.	250	170■	250	36	5.2	40,000	10,000	.....	7,000	3,900	6M5
6N4	T-5½	Triode	7CA-0-0	Cathode	6.3	0.20	1.1	3.0	1.6	Amplifier	180	3.5	.....	12.0	....	5,400 ♦	6,000 ♦	32	....	....	6N4

(1) Values are given shielded unless marked with (*).
(2) Converter tube capacitances given are signal grid to plate; RF Input, Mixer Output.
(3) Has special mechanical and/or life characteristics.
§§ With Average Power Input of 320 Mw. Grid to Grid.
†† For two tubes with 40 volts RMS applied to each grid.
* Applied through 250,000 ohms.
# Per Tube or Section.
§ Plate and Target Supply Voltage.
□ Applied through 20,000 ohms.
▲ Conversion Transconductance.
** Triode Operation.
‡ Pentode Operation.
¶ Plate to Plate.
♦ Approximate.
m maximum
■ Cathode Resistor (ohms).
x Controlled Heater Warm-up Time, applies only for 600 Ma. condition.