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												
12CS6	T-5½	Dual Control Heptode	7CH-0-0	Cathode	12.6	0.150	0.05m 0.36m	5.5 7.0	7.5	Sync. Sep.	100 100	0.0Gr.#1 1.0Gr.#1	30 30	0.8 0.75	4.0 1.1	700,000 1.0 Meg.	950 Gr. #1 1250 Gr. #3	Grid #3 Volts = 0 Grid #3 Volts = 1.0			12CS6
12CU5	T-5½	Pentode	7CV	Cathode	12.6I	0.600	0.7*	13.2**	8.6*	Power Amp.	Characteristics Same as Type 6CU5. (12CU5 Designed for Series String TV Receivers.)										12CU5
12CU6	T-12	Beam Amp.	6AM-0-0	Cathode	12.6I	0.600	0.55*	15.0**	7.0*	Horiz. Amp.	Characteristics Same as Type 6BQ6G, Except Max. D.C. Plate Supply = 550 Volts. (12CU6 Designed for Series String TV Receivers).										12CU6
12DQ6	T-12	Pentode	6AM-0-0	Cathode	12.6I	0.600	0.55*	15.0*	7.0*	Horiz. Def. Amp.	Characteristics Same as Type 6DQ6. (12DQ6 Designed for Series String TV Receivers).										12DQ6
12DQ6A	T-12	Pentode	6AM	Cathode	12.6I	0.6	0.55*	15*	7*	Class A1 Amp. Horiz. Defl.	Characteristics Same as Type 6DQ6A. (12DQ6A Designed for Series String TV Receivers.)										12DQ6A
12E5GT	T-9	Triode	6Q-1-0	Cathode	12.6	0.15	2.6	3.4	5.5	Amplifier	100 250	5.0 13.5	....	2.5 5.0	....	12,000 9,500	1,150 1,450	13.8 13.8	....	....	12E5GT
12F5GT	T-9	Triode	5M-0-0	Cathode	12.6	0.15	2.8*	2.2**	3.2*	Amplifier	Characteristics Same as Type 6F5GT.										12F5GT
12F8	T-6½	Duodi. Pent.	9FH	Cathode	12.6	0.150	0.06	4.5	3.0	Amplifier	12.6	0	12.6	1.0	0.38	0.33 Meg.	1,000	.....	....	....	12F8
12G4	T-5½	Triode	6BG	Cathode	12.6	0.15	3.4	2.6	3.2	Amplifier	Identical to One Section of Type 6SN7GT.										12G4
12G8	T-6½	Duotriode	9CZ	Cathode	12.6	0.400	....	....	....	Amplifier	12.6 12.6	0 ..	Input Tri. Output Tri.	3.0 7.2	....	 8,500	 2,600	 22	 2,000	 25	12G8
12H4	T-5½	Triode	7DW	Cathode	6.3/ 12.6	0.3/ 0.15	3.4	2.6	3.2	Amplifier	90 250	0 8	....	10 9.0	....	....	3,000 2,600	20 20	....	....	12H4
12H6	Metal	Duodiode	7Q-1-1	Cathode	12.6	0.15	....	....	....	Rectifier	Characteristics Same as Type 6H6.										12H6
12J5GT	T-9	Triode	6Q-0-0	Cathode	12.6	0.15	3.8	4.2	5.0	Amplifier	Characteristics Same as Type 6J5GT.										12J5GT
12J7GT	T-9	Pentode	7R-1-1	Cathode	12.6	0.15	.007m	5.4	12.0	R-F Amp.	Characteristics Same as Type 6J7G.										12J7GT
12K5	T-5½	Tetrode	7EK	Cathode	12.6	0.450	....	....	....	Class A1 Amp	12.6	G1 = +12.6 G2 = −2	8.0	G1 = 85		800	7,000	5.6	....	....	12K5
											(Designed for Space-Charge Grid Operation.)										
12K7GT	T-9	Pentode	7R-1-8	Cathode	12.6	0.15	.007m	5.0	12.0	R-F Amp.	Characteristics Same as Type 6K7G.										12K7GT
12K8 12K8GT	Metal T-9	Tri. Hexode	8K-1-8	Cathode	12.6	0.15	.03m .08m	6.6 5.0	3.5 4.8	Mixer Osc. Converter	Characteristics Same as Type 6K8GT.										12K8 12K8GT
12L6GT	T-9	Beam Amp.	7S-0-0	Cathode	12.6I	0.600	....	....	....	Power Amp.	Characteristics Same as Type 25L6GT. (12L6GT Designed for Series String TV Receivers).										12L6GT
12L8GT	T-9	Duo. Pentode	8BU-0-0	Cathode	12.6	0.15	0.7*	5.0**	6.0*	Power Amp.	110 180	5.5 9.0	110 180	6.1# 13.0#	1.3# 2.8#	220,000# 160,000#	1,680# 2,150#	....	14,000# 10,000#	300# 1,000#	12L8GT
12Q7GT	T-9	Duodiode Tri.	7V-1-8	Cathode	12.6	0.15	1.6	2.2	5.0	Det. Amp.	Characteristics Same as Type 6Q7GT.										12Q7GT
12S8GT	T-9	Triple Dio. Tri.	8CB-0-2	Cathode	12.6	0.15	....	....	....	Det. Amp.	Characteristics Same as Type 6S8GT.										12S8GT
12SA7 12SA7GT	Metal T-9	Heptode	8R-1-0 8AD-1-6	Cathode	12.6	0.15	.13m .5m	9.5 11.0	12.0 11.0	Converter	Characteristics Same as Type 6SA7.										12SA7 12SA7GT
12SC7	Metal	Duotriode	8S-1-0	Cathode	12.6	0.15	2.0	2.2	3.0	Amplifier	Characteristics Same as Type 6SC7.										12SC7
12SF5 12SF5GT	Metal T-9	Triode	6AB-0-0	Cathode	12.6	0.15	2.4 2.6	4.0 4.2	3.6 3.8	Amplifier	Characteristics Same as Type 6SF5.										12SF5 12SF5GT
12SF7	Metal	Diode Pent.	7AZ-1-0	Cathode	12.6	0.15	.004m	5.5	6.0	Det. Amp.	Characteristics Same as Type 6SF7.										12SF7
12SG7	Metal	Pentode	8BK-1-1	Cathode	12.6	0.15	.003m	8.5	7.0	R-F Amp.	Characteristics Same as Type 6SG7.										12SG7
12SH7 12SH7GT	Metal T-9	Pentode	8BK-1-0 8BK-1-1	Cathode	12.6	0.15	.003m	8.5	7.0	R-F Amp.	Characteristics Same as Type 6SH7.										12SH7 12SH7GT
12SJ7 12SJ7GT	Metal T-9	Pentode	8N-1-1 8N-1-5	Cathode	12.6	0.15	.005m .005m	6.0 6.3	7.0 7.5	R-F Amp.	Characteristics Same as Type 6SJ7.										12SJ7 12SJ7GT
12SK7 12SK7GT	Metal T-9	Pentode	8N-1-1 8N-1-5	Cathode	12.6	0.15	.003m .005m	6.0 6.5	7.0 7.5	R-F Amp.	Characteristics Same as Type 6SK7.										12SK7 12SK7GT
12SL7GT	T-9	Duotriode	8BD-0-0	Cathode	12.6	0.15	....	....	....	Amplifier	Characteristics Same as Type 6SL7GT.										12SL7GT
12SN7GT	T-9	Duotriode	8BD-0-0	Cathode	12.6	0.30	3.8* 4.0*	2.8* 3.0*	0.8* 1.2*	Amplifier	Characteristics Same as Type 6SN7GT.										12SN7GT
12SN7GTA	T-9	Duotriode	8BD-0-0	Cathode	12.6	0.300	4.0* 3.8*	2.2* 2.6**	0.7* 0.7*	Vertical Osc. Amp.	Characteristics Same as Type 6SN7GTA.										12SN7GTA
12SQ7 12SQ7GT	Metal T-9	Duodiode Tri.	8Q-1-3	Cathode	12.6	0.15	1.6 1.8	3.2 4.2	3.0 3.4	Det. Amp.	Characteristics Same as Type 6SQ7.										12SQ7 12SQ7GT
12SR7	Metal	Duodiode Tri.	8Q-1-1	Cathode	12.6	0.15	2.3	3.0	3.0	Det. Amp.	Characteristics Same as Type 6SR7.										12SR7
12SW7	Metal	Duodiode Tri.	8Q-1-0	Cathode	12.6	0.15	2.4	3.0	2.8	Det. Amp.	26.5 250	Self 9	....	1.1 9.5	....	15,500 8,500	1,100 1,900	17 16	(2 Meg. Grid Res.)	....	12SW7
12SX7GT	T-9	Duotriode	8BD-0-0	Cathode	12.6	0.30	3.6* 3.6*	3.0* 2.8*	0.8* 1.2*	Amplifier	26.5 90 250	Self 0 8	....	....	....	11,500 6,700 7,700	1,800 3,000 2,500	21 20 20	(.05 Meg. Grid Res.)	....	12SX7GT
12SY7	Metal	Heptode	8R-1-0	Cathode	12.6	0.15	....	....	....	Converter	250	2.0	100	3.5	8.5	1 Meg. ♦	450▲	.....	....	....	12SY7
12U7	T-6½	Duotriode	7CK	Cathode	12.6	0.150	1.5	1.8	2.0	Class A1 Amp.	12.6	0	.....	1.0	....	12,500	1,600	20	....	....	12U7
12V6GT	T-9	Beam Amp.	7S	Cathode	12.6	0.225	0.7	9.0	7.5	Power Amp.	180 250	8.5 12.5	180 250	29 45	3 4.5	50,000 ♦ 50,000 ♦	3,700 4,100	....	5,500 5,000	2,000 4,500	12V6GT

(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.
I Controlled Heater Warm-up Time, applies only for 600 Ma. condition.

* 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.
d Plate to Plate.
♦ Approximate.
m maximum
■ Cathode Resistor (ohms).