

# SYLVANIA TUBES -- AVERAGE CHARACTERISTICS

Type	Construction		Emitter		Note (1) (*) Capacitances in $\mu\mu\text{f}$ .			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 Milli-watts	Type
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	Amps.	Cgp.												
6ZY5G	ST-12	Duodiode	6S-0-0	Cathode	6.3	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6ZY5G	
7A4/XXL	Lock-in	Triode	5AC-L-0	Cathode	6.3	0.30	4.0	3.4	3.0	.....	10.0	.....	.....	6,700	3,000	90	.....	7A4/XXL	
7A5	Lock-in	Beam Amp.	6AA-L-0	Cathode	6.3	0.75	0.44	13.0	7.2	.....	40.0	3.0	3.3	14,000	5,800	.....	2,500	1,500	
7A6	Lock-in	Duodiode	7DX-L-5	Cathode	6.3	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,900	
7A7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.30	.003m	6.0	7.0	.....	13.0	4.0	.....	120,000	2,350	.....	.....	7A7	
7A8	Lock-in	Octode	8U-L-7	Cathode	6.3	0.15	0.15m	7.5	9.0	.....	18.0	2.6	.....	800,000	2,000	.....	.....	7A8	
7AB7	Lock-in	Pentode	8B0-L-0	Cathode	6.3	0.15	.06m	3.5	4.0	.....	1.8	2.7	.....	650,000	375 A	.....	.....	7AB7	
7AD7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.60	0.03	11.5	7.5	.....	3.0	3.2	.....	700,000	550 A	.....	.....	7AD7	
7AF7	Lock-in	Duodiode	8AC-L-0	Cathode	6.3	0.30	2.3*	2.2*	1.6*	.....	10.8	.....	.....	500,000	1,800	.....	.....	7AF7	
7AG7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.15	.005m	7.0	6.0	.....	6.0	2.0	.....	750,000	4,200	.....	.....	7AG7	
7AH7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.3	.005m	7.0	6.5	.....	6.8	1.9	.....	1 Meg.	3,300	.....	.....	7AH7	
7AJ7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.3	.007m	6.0	6.5	.....	5.7	1.8	.....	400,000	9,275	.....	.....	7AJ7	
7AK7	Lock-in	Pentode	8V-L-0	Cathode	6.3	0.8	4.0 SutoP 0.7	12.0	9.5	.....	2.2	0.7	.....	>1.0 Meg.	1,575	.....	.....	7AK7	
7AU7	T-6 1/2	Duotriode	9A-0-0	Cathode	7.0/ 3.5	0.300/ 0.600	1.5* 1.5*	1.6* 1.6*	0.40* 0.32*	.....	2.0 Max. 2.0 Max.	0.45 4.3 Max.	.....	.....	.....	.....	.....	7AU7	
7B4	Lock-in	Triode	5AC-L-0	Cathode	6.3	0.30	1.6	3.2	3.2	.....	0.4	.....	.....	85,000	1,150	100	.....	7B4	
7B5	Lock-in	Pentode	6AE-L-0	Cathode	6.3	0.40	0.8	7.4	8.0	.....	9.0	1.6	.....	104,000	1,500	100	.....	7B5	
7B6	Lock-in	Duodiode Tri.	8W-L-7	Cathode	6.3	0.30	1.6	3.0	2.4	.....	32.0	5.5	.....	68,000	3,300	.....	12,000	350	
7B7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.15	.004m	5.0	6.0	.....	8.2	1.8	.....	110,000	900	0	.....	7B6	
7B8	Lock-in	Heptode	8X-L-0	Cathode	6.3	0.30	0.2m	10.0	9.0	.....	8.5	1.7	.....	300,000	1,675	.....	.....	7B7	
7C4	Lock-in	H. F. Diode	4AH-L-0	Cathode	6.3	0.15	.....	.....	.....	.....	1.1	2.7	.....	600,000	360 A	.....	.....	7B8	
7C5	Lock-in	Beam Amp.	6VA-L-0	Cathode	6.3	0.45	0.40	9.5	9.0	.....	3.5	3.1	.....	360,000	550 A	.....	.....	7C4	
7C6	Lock-in	Duodiode Tri.	8W-L-7	Cathode	6.3	0.15	1.6	2.4	2.4	.....	99.0	3.0	.....	50,000	3,700	.....	5,500	2,000	
7C7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.15	.004m	5.5	6.5	.....	45.0	4.5	.....	80,000	4,100	.....	5,000	4,500	
7E5	Lock-in	Triode	8BN-L-0	Cathode	6.3	0.15	1.5	3.6	2.8	.....	34.0	9.2	.....	80,000	3,750	.....	8,500	3,500	
7E6	Lock-in	Duodiode Tri.	8W-L-7	Cathode	6.3	0.30	1.5	3.0	2.4	.....	70.0	5.0	.....	(Class AB1 Two Tubes)	.....	.....	10,000	10,000	
7E7	Lock-in	Duodi. Pent.	8AE-L-7	Cathode	6.3	0.30	.005m	4.6	5.5	.....	7.0	4.0	.....	(Class AB1 Two Tubes)	.....	.....	8,000	14,000	
7F7	Lock-in	Duotriode	8AC-L-0	Cathode	6.3	0.30	1.6	2.4	2.0	.....	1.0	.....	.....	100,000	850	85	.....	7C6	
7F8	Lock-in	Duotriode	8BW-L-0	Cathode	6.3	0.30	1.2#	2.8#	1.4	.....	1.3	.....	.....	100,000	1,000	100	.....	7C7	
7F8W (3)	Lock-in	Duotriode	8BW-L-0	Cathode	6.3	0.30	1.6	3.0	1.7	.....	1.8	0.4	.....	1.2 Meg.	1,225	.....	.....	.....	
7G7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.45	.006m	9.0	7.0	.....	2.0	0.5	.....	2.0 Meg.	1,300	.....	.....	.....	
7G8	Lock-in	Duotetode	8BV-L-0	Cathode	6.3	0.30	0.15m	3.4	2.6	.....	1.8	0.4	.....	1.2 Meg.	1,300	.....	.....	.....	
7H7	Lock-in	Pentode	8V-L-5	Cathode	6.3	0.30	.004m	8.0	7.0	.....	13.0	.....	.....	Oscillator for 750 mc. Service.	.....	.....	.....	.....	

(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 350 Mw. Grid to Grid.  
 † For two tubes with 40 volts RMS applied to each grid.  
 ‡ 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.  
 † Pentode Operation.  
 ‡ Plate to Plate.  
 † Pentode Operation.  
 ‡ Approximate.

♠ maximum Cathode Resistor (ohms).