

ENTERTAINMENT & AUDIO TUBES (Continued)

TYPE NO.	FILAMENT		TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS							
	Volts	Amps	Circuit Application	Applied Voltages			Plate Current (ma)	Screen Current (ma)	Amplification Factor	Plate Resistance (K ohms)
				Plate	Screen	Grid				
6EH7/EF183	6.3	0.3	IF Amplifier	200	90	-2	12	4.5	—	500
6EJ7/EF184	6.3	0.3	IF Amplifier	200	200	-2.5	10	4.1	60	350
6ER5	6.3	0.18	RF Amplifier triode	200	—	-1.2	10	—	80	—
6ES8/ECC189	6.3	0.365	Cascode AGC controlled RF Amplifier.	90	—	-1.4	15.0	—	34	2.5
6FY5	6.3	.2	RF Amplifier	135	—	-4.5	11.0	—	70	—
6GB5/EL500	6.3	1.4	Horizontal deflection output stages of TV receivers	75	200	-10	440	37	—	—
6GJ7	6.3	0.41	TV oscillator-mixer: Triode-Pentode	100 170	— 120	-3 -1.2	15 10	— 3.0	— 20	— ≥350
6GK5	6.3	0.18	VHF Triode	135	—	-1	11	—	70	5.2
6GM8/ECC86	6.3	0.33	RF Amplifier	25	—	0	7.5	—	14	2.1
			Mixer	25	—	—	2.6	—	—	0.5
6GV8/ECL85	6.3	0.9	Driver for pentode stage: Triode	100	—	-0.8	5	—	50	7.6
			Vertical deflection tube for 110° picture tubes: Pentode	170	170	—	41	2.7	7	25
6GW8/ECL86	6.3	0.7	AF Amplifier: Triode	250	—	-1.7	1.2	—	100	—
			AF Amplifier: Pentode	250	250	-7	36	5.5	22 ³	45
6HA5	6.3	0.18	RF Amplifier Triode	200	—	-5.7	11.5	—	72	5.6
6HG8/ECF86	6.3	0.34	VHF, TV tuners: Triode-Oscillator	100	—	-3	14	—	17	—
			VHF, TV tuners: Pentode-Mixer	170	150	-1.5	10	3.3	60 ³	350
6J6	6.3	0.45	HF Oscillator, RF Amplifier or Mixer	300	—	-40	15	—	—	10
6JX8/ECH84	6.3	0.3	Heptode-Triode	135	14	0	1.7	0.9	—	—
				60	—	0	3	—	50	16
6R3/EY81	6.3	0.81	Damper Diode	Peak Inverse Voltage 5,600		Peak Plate Current 450 ma		Average Plate Current 150 ma		
6U8	6.3	0.45	Pentode — Triode	300 150	300 —	-0.7 -1	10 18	3.5 —	— 40	400
6V4/EZ80	6.3	0.6	Full Wave Rectifier	AC Supply (Plate-to-Plate) Voltage (RMS) = 2 X 300 volts DC Output Current (max.) = 90 ma Max. Capacity Condenser Input Filter = 50 μ f DC Output Voltage = 310 volts dc						
6X4	6.3	0.6	Full Wave Rectifier	AC Supply (Plate to Plate) Voltage (RMS) = 2 x 325 DC Output Current (Max.) = 70 ma Maximum Input Capacitor = 10 μ f DC Output Voltage = 310 Volts						
7HG8/PCF86	8	0.3		(For other data see 6HG8/ECF86)						
8BQ5	8	0.6	Output Pentode	250	250	-7.3	48	5.5	—	40
8GJ7	8.6	0.3	TV oscillator-mixer: Triode-Pentode	100	—	-3	15	—	—	—
				170	120	-1.2	10	3.0	20	≥350

³Grid 1 to Grid 2

Trans- conduct- ance (micromhos)	Max. Power Output - 2 Tubes, Push- Pull Class B	Load Resist- ance (K ohms)	Cut-Off Bias (volts)	DESCRIPTION	TYPE NO.
12,500	-	-	-	Frame grid remote cut-off pentode designed for use as an IF amplifier in TV receivers. High transconductance, low capacities, and low feed back capacity, enables construction of simplified broad band amplifiers with high stability.	6EH7/EF183
15,000	-	-	-	Frame grid sharp cut-off pentode designed for use as an IF amplifier in TV receivers. High transconductance, low capacities, and low feed back capacity, enables construction of simplified broad band amplifiers with high stability.	6EJ7/EF184
10,500	-	-	-	High gain miniature frame grid shielded triode designed for service in VHF tuners for television receivers.	6ER5
12,500	-	-	-	High performance, frame grid twin triode with remote cut-off characteristics. Designed for use as low noise cascode tube in premium TV tuners.	6ES8/ECC189
13,000	-	-	-	High gain miniature frame grid shielded triode with remote cut-off. Designed for service in VHF tuners for television receivers, and is controlled for low noise figure at 220 mc and operation at low supply voltages.	6FY5
-	-	-	-	All-glass beam power pentode designed for use in horizontal deflection output stages of TV receivers. Features large plate-to-screen grid current ratio and a magnoval base with peak plate voltage of 7KV.	6GB5/EL500
11,000	-	-	-	Ampliframe triode - pentode for oscillator-mixer service in television applications.	6GJ7
13,000	-	-	-4.2	A high gain frame grid VHF triode.	6GK5
7,800	-	-	-	Frame grid twin triode designed for low voltage applications. Suitable for instrumentation and industrial applications as a direct-coupled wide band amplifier and for automobile radio sets and as an RF amplifier and self-oscillating mixer. May be operated directly from a storage battery.	6GM8/ECC86
2,000	-	-	-		
6,500	-	-	-	Triode-pentode especially intended for vertical output stages, particularly 110° picture tubes. Special attention has been paid to microphony, linearity and S-effect.	6GV8/ECL85
7,500	-	-	-		
1,600	-	-	-	Triode-pentode with separate cathodes. Designed for sound output and preamplifier stages in audio apparatus and TV receivers.	6GW8/ECL86
10,000	-	-	-		
14,500	-	-	-	Ampliframe shielded triode for use as RF amplifier in VHF television tuners.	6HA5
6,000	-	-	-	Triode-pentode for use in mixer stage of VHF tuners in TV receivers. Pentode section incorporates a frame grid for high conversion gain.	6HG8/ECF86
12,000	-	-	-		
5,300	-	-	-	Miniature dual triode having a common cathode.	6J6
2,200 3,700	- -	- -	- -11	Triode-heptode for use as a pulse separator, noise inverter and sync. amplifier	6JX8/ECH84
				Diode designed for use as damper in horizontal output circuits of television receivers.	6R3/EY81
5,200 8,500	- -	- -	-10 -12	As local oscillator - pentode mixer in FM and TV receivers and other uses	6U8
				Indirectly heated, full-wave rectifier with 90 ma output capacity and 9 pin miniature construction.	6V4/EZ80
				Miniature cathode type rectifier	6X4
				This tube is a 300 ma version of the 6HG8/ECF86.	7HG8/PCF86
11,300	17	8	-17.5	Output pentode for medium power hi-fi amplifiers	8BQ5
- 11,000	- -	- -	- -	Ampliframe triode-pentode for 300 ma series string operation as an oscillator-mixer in television applications.	8GJ7