

PREMIUM QUALITY 10,000 HOUR TUBES¹ (Continued)

						MAXIMUM RATINGS					
TYPE	HEATER		CAPACITANCES			Max. Anode Dissipation	Anode Voltage	Suppressor Grid Voltage	Screen Grid Voltage	Cathode Current	
	Voltage	Current	Cold Values	Input	Output						
	volts	amps		$\mu\mu f$	$\mu\mu f$	watts	volts	volts	volts	ma	
6227/E80L ³ Power Pentode	6.3	0.75	—	11.0	7.0	8.0 (absolute value)	300	0	300	50	
6463 medium mu twin triode	6.3	0.6	one section	3.4	0.5	4.4	330	—	—	31	
	12.6	0.3									
6686/E81L Power Pentode	6.3	0.375	—	11.5	6.5	4.5 (design center value)	210	0	210	30	
6687/E91H dual control heptode	6.3	0.27	—	5.4	7.6	1.0	250	-100 +0	100	20	
6688 ^{2, 4} Broad-band amplifier pentode	6.3	0.3	—	7.5	3.0	3.0 (absolute value)	210	0	175	25	
6688 A											
6689/E83F wide-band amplifier pentode	6.3	0.3	—	8.0	3.6	2.1 (design center value)	210	0	210	16	
6922/E88CC ³ Twin Triode	6.3	0.3	one section	3.1	0.5	1.5 ² (design center value)	220	—	—	20	
7062 Twin Triode	6.3	0.400	one section	3.5	0.5	2.0 ² (absolute value)	600	—	—	20	
	12.6	0.200									
7119/E182CC Twin Triode	Series 12.6 Par. 6.3	0.4 0.8	one section	5.3	6.7	4.5 (absolute value)	300	—	—	60	
7308/E188CC ⁴ Twin Triode	6.3	0.335	one section	3.1	1.75	2.0	250	—	—	22	
7534 Pentode	6.3	1.7	—	35	17	27.5	900	—	250	300	
7737 ⁴ Pentode	6.3	0.32	—	7.6	3.3	3	210	—	175	25	
7788 Pentode	6.3	0.34	—	16.5	3.3	5	250	—	200	50	

¹These tubes are designed for a life of 10,000 hours or more.

²Ratings and operating conditions apply to one section.

UHF SPECIAL PURPOSE TUBES

TYPE NO.	FILAMENT		Plate Dissipation Watts	$\mu\mu$	Transcon- ductance (micromhos)	PLATE		Power Output Characteristics	
	Volts	Amps				Volts	Ma		
6923/EA52	6.3	0.3	—	—	—	1000 V at <100 mc $1000 \times \frac{fo^4}{f}$ at >100 mc	0.3	—	
EFP60	6.3	0.37	2	—	25,000	300	20	—	
6Q4/EC80	6.3	0.45	4	30	12,000	550	15	15 db gain at 300 mc (Bandwidth 4.5 mc)	
6R4/EC81	6.3	0.24	5	16	5,500	300	27.7	Power output 1.1 w at 750 mc	

¹fo = 100 mc

	TYPICAL CHARACTERISTICS										TYPE
	Screen Grid Voltage	Anode Voltage	Cathode Resistor	Anode Current	Screen Grid Current	Trans- con- ductance	Amplifi- cation Factor	Plate Resist- ance	Maximum Length	Maximum Diameter	
	volts	volts	ohms	ma	ma	micromhos		megohms	inches	inches	
	250	250	270	24	3.3	9,000	21.5	0.09	3-1/16	7/8	6227/E80L ³ Power Pentode
	—	250	620	14.5	—	5,200	20	—	2-5/8	7/8	6463 medium mu twin triode
	210	210	120	20	5.3	11,000	36	0.3	2-5/8	7/8	6686/E81L Power Pentode
	Dual control heptode for use as a gated amplifier in computer and "on-off" control circuits. With either control at -10 volts and plate voltage at 150 volts, the plate current will be less than 0.2 ma. With both control grids at 0 volts, the plate current is nominally 5.75 ma. Direct replacement for 5915A.								2-1/8	3/4	6687/E91H dual control heptode
	160	190	630	13	3.3	16,500	50	0.09	1-3/4	7/8	6688 ^{3 4} Broad-band amplifier pentode 6688 A
	120	210	165	10	2.1	9,000	34	0.5	2-5/8	7/8	6689/E83F wide-band amplifier pentode
	—	100	680	15	—	12,500	33	0.00264	2-3/16	7/8	6922/E88CC ³ Twin Triode
	—	150	—	8.5	—	6,400	46	0.0072	2-5/8	7/8	7062 Twin Triode
	—	120	—	36	—	15,500	24.5	0.0016	2-5/8	7/8	7119/E182CC Twin Triode
	—	100 (supply)	680	15	—	12,500	33	—	2-3/16	7/8	7308/E188CC ⁴ Twin Triode
	150	250	—	100	4	25,000	6.5	—	5	1-9/16	7534 Pentode
	—	—	630	13	3.3	16,500	53	0.1	1-1/2	7/8	7737 ⁴ Pentode
	—	—	360	35	5	50,000	60	—	2-13/16	7/8	7788 Pentode

³Rugged construction.

⁴Available to military specifications.

Max. Freq. mc	CAPACITANCES $\mu\mu f$			DESCRIPTION	TYPE NO.
	G-P	Input	Output		
1000	—	≤ 0.5	—	Disc-seal, vacuum diode for UHF voltmeters and monitoring devices. Anode pin connection adaptable for use as probe contact.	6923/EA52
—	0.004	9.2	6	Secondary emission pentode for wide band amplifier application where stability and high ratio of transconductance to capacities is important. Used in high speed computer service and high quality TV applications.	EFP60
500	0.06	5.4	3.4	Radiation-cooled triode, button type base, indirectly heated cathode. For use as amplifier and mixer up to 500 mc. Ideally suited for UHF television, balloon sondes, measuring equipment, etc.	6Q4/EC80
1200	1.5	1.7	0.5	Radiation-cooled triode, standard button base, indirectly heated cathode. Used as oscillator up to 1200 mc. High efficiency at high frequencies.	6R4/EC81