

POWER TUBES – TETRODES & PENTODES (Continued)

TYPE NO.	FILAMENT		μ Grid #1 to Grid #2	Max. Diss. Watts	TYPICAL OPERATION					
					PLATE			GRID		SCREEN
	Volts	Amps			Volts DC	Amps DC	Output Watts	Volts DC	MA DC	Volts DC
6360	12.6	0.410	7.5	CCS=10 ICAS=14	300	0.100	ICAS 18.5	-45	3	200
6360 A	6.3	0.820								
6883	12.6	0.625	4.5	CCS=20 ICAS=25	600 750	0.112 0.120	52 70	-58 -62	2.8 3.1	150 160
6907	12.6 6.3	0.65 1.3	8.5	CCS=20 ICAS=25	600 750	0.100 0.150	42 79	-60 -60	1.4 2	250 250
6939	12.6 6.3	0.3 0.6	31	CCS=6 ICAS=7.5	180 200	2x.027 2x.030	5.8 7.2	-20 -20	0.75 0.75	180 200
6979	6.0	2.6	5	250	2,000	0.250	410	-90	12	250
7377	12.6 6.3	0.3 0.6	28	8	250	0.035	7	-15	0.75	160
7580	6	2.6	4	250	2,000	0.250	360	-250	50	400
7378	6.3	3.9	5.7	100	750	0.385	200	-90	7 10	250
7527	5	14.1	5.1	400	4,000	0.270	800	-170	9.5	500
7609	26.5	0.57	5	250	1,250	0.200	140	-115	10	280
7645	6.3 12.6	0.6 0.3	31	CCS=5.5 ICAS=7	180	0.04	4.2	-20	.6	180
7854	12.6 6.3	0.9 1.8	8.2	60	1,000	0.200	134	-85	5.4	250
7983	3.15	1.65	7.5	7	300	0.55	11	-40	1.5	155
8042	1.6	3.2	4.5	25	650	0.160	65	-71	2.8	180
8116	26.5 13.25	0.433 0.866	7	2x30	1,000	2x0.110 2x0.131	141 P.E.P.	-34	0	250
8117	12.6 6.3	0.9 1.8	7	2x30	1,000	2x0.131	141 P.E.P.	-34	0	250
8177	4	60	9	1200	3,110	0.8	1,280	-300	10	610
8179	7.5	22.6	5.1	800	5,500	0.6	1,300	-500	0	800

POWER TUBES – TRIODES

TYPE NO.	FILAMENT		Mu	Max. Diss. Watts	TYPICAL OPERATION					MAX. FREQ. mc
	Volts	Amps			PLATE			GRID		
					Volts DC	Amps DC	Output Watts	Volts DC	MA DC	Full Input Watts
HF200	11	4	18	150	2,000	0.200	300	-250	23	30
HF201A	11	4	18	150	200	0.200	300	-250	23	30
HF300	11.0	4	23	200	3,000	0.250	600	-400	28	20

MAX. FREQ. mc	INTERELECTRODE CAPACITANCE $-\mu\mu f$			Full Input Watts	DESCRIPTION	TYPE NO.
	G-P	G-F	P-F			
200	<0.1	Input Output	6.2 2.6		High-gain twin tetrode for use as Class C amplifier, oscillator, frequency multiplier and modulator, ICAS plate input = 30 watts up to 200 mc. Capable of delivering 18.5 watts output at 200 mc.	6360 6360 A
60	0.22	13.5	8.5		Beam power tube for use as RF power amplifier, oscillator, frequency multiplier, AF power amplifier or modulator for mobile and fixed equipment. Anode capable of dissipating 25 watts ICAS.	6883
300	—	Input Output	4.0 1.3		Twin tetrode, radiation-cooled. Special Amperex design for mobile service, HF version of conventional 832A. Ideal multiplier & straight amplifier & modulator. Useful up to 1000 mc. Delivers 15 watts at 600 mc, CCS.	6907
500	2x0.15	2x6.4	2x1.6		High-gain twin tetrode for use as Class C amplifier, oscillator, frequency multiplier & modulator. ICAS plate input = 14 watts up to 500 mc. Capable of delivering 7.5 watts output at 500 mc.	6939
250	0.03	15.7	4.5		Forced-air cooled external anode tetrode. Brazed radiator. Interchangeable with 4X150A where higher plate dissipation is required.	6979
960	0.145	4.5	1.35		Radiation cooled twin tetrode designed for push-pull Class C operation at frequencies up to 1000 Mc.	7377
500	0.03	17	4.5		Forced-air cooled, beam power tetrode built of ceramic and metal, especially for SSB and other linear RF amplifier applications at altitudes to 20,000 ft.	7580
30	0.9	—	—		Radiation and convection cooled all-glass beam-power tetrode especially designed for use as an AF and RF amplifier, oscillator, and frequency multiplier for operation at frequencies up to 30 mc.	7378
110	0.12	12.7	4.9		All glass tetrode. Designed for amplifier, oscillator, or modulator service extending in the VHF region at frequencies up to 110 mc.	7527
500	0.03	Input Output	15.5 4.5		A tetrode designed for use as an RF power amplifier and oscillator. The plate is forced air cooled; the cathode is oxide coated, indirectly heated. Similar to 4X150D except that it is designed for aircraft use and other applications in which resistance to vibration is important.	7609
400	0.15	6.4	1.6		Miniature twin tetrode featuring frame grid construction. It is a reduced height version of the 6939 for compact equipment.	7645
175	0.09	Input Output	11.6 3.7		Twin tetrode. Designed for use as an RF power amplifier, oscillator, modulator and frequency multiplier. Heat sink or forced-air cooling is necessary at or near maximum ratings. Built-in cross neutralizing capacitors insure neutralization over entire band. Useful to 500 mc.	7854
200	0.08	6.8	3.2		Quick heating twin tetrode having a filament designed for hybrid mobile transceivers for power output, driver or frequency multiplier circuits. Internally neutralized up to 200 mc	7983
—	0.24	13	8.5		"Harp Cathode" instant heating beam power tetrode for use as power output, oscillator or frequency multiplier in mobile or base equipment. Full output power is available in less than one half second after filament power is applied.	8042
175	0.09	11.8 Input	3.7 Output		Twin tetrode designed and rated for SSB applications where 26.5 v is available for heater. Particularly adapted to heat sink cooling because of calibrated glass envelope.	8116
175	0.09	11.8 Input	3.7 Output		Twin tetrode designed and rated for SSB applications where 12.6 v is available for the heater.	8117
900	0.15	46	6		Ceramic coaxial power tetrode useful as a UHF amplifier or oscillator up to 1000 mc.	8177
30	0.1	47	9.5		Radiation and/or air-cooled tetrode for use as an AM or SSB amplifier. Features low distortion.	8179

INTERELECTRODE CAPACITANCE $-\mu\mu f$			Full Input Watts	DESCRIPTION	TYPE NO.
G-P	G-F	P-F			
6.9	6.2	1.2		Radiation-cooled triode for use as an RF power amplifier, oscillator and class B audio amplifier or modulator.	HF200
7.0	8.8	1.2		Radiation-cooled triode especially designed for use as an AF and RF amplifier and oscillator.	HF201A
7.0	6.0	1.0		Radiation-cooled triode. Ideally suited for initial replacement of competitive types. Widely used in RF heating applications, and commercial, and police transmitters.	HF300