POWER TUBES
TRIODES, TETRODES & PENTODES

TYPE NO.	FILAMENT		Mu	Max. Diss. Watts	TYPICAL OPERATION						MAX. FREQ. mc/sec
					PLATE			GRID		SCREEN	
	Volts	Amps			Volts DC	Amps DC	Output Watts	Volts DC	Amps DC	Volts DC	Full Input Watts
2C39A	6.3	1.0	100	100	800	0.090	40	-40	0.030	-	2500
4X150A	6.0	2.6	5**	150	1,250	0.200	195	-90	0.011	250	500
AX4-125A/4D21											(See Tube Type 6155
AX4-250A/5D22											(See Tube Type 6156
4X250B	6.0	2.6	5**	250	2,000	0.250	410	-90	0.012	250	500
4X500A	5.0	13.5	6.2**	500	4,000	0.315	835	-150	0.016	500	120
HF-200	10.0	4	18	200	2,500	0.200	380	-300	0.020	-	30
HF-201A	10.5	4	18	200	2,500	0.200	380	-300	0.018	-	30
250-TH	5.0	10.5	37	250	3,000	0.333	750	-220	0.100	-	40
250-TL	5.0	10.5	14	250	3,000	0.350	750	-500	0.050	-	40
HF-300	11.0	4	23	200	3,000	0.250	600	-400	0.028	-	20
450-TH	7.5	12.0	38	450	5,000	0.450	1,800	-300	0.090	-	40
450-TL	7.5	12.0	18	450	5,000	0.450	1,800	-500	0.054	-	40
501-R/5759	7.5	24	24	1,000	3,500	0.870	2,175	-250	0.133	-	150
502/5760	7.5	24	17	1,500	3,500	0.860	2,175	-450	0.150	-	150
502-R/5761	7.5	24	17	1,500	3,500	0.860	2,175	-450	0.150	-	150
504R	7.5	24	17	1,000	3,500	0.860	2,175	-750	0.150	-	150
508/6246	30	80	28	25,000	15,000	3.75	40,000	-900	0.420	-	40
750TL	7.5	21	15	750	6,000	0.625	3,000	-700	105	-	40
805	10.0	3.25	50	125	1,500	0.200	215	-105	0.025	-	30
807	6.3	0.9	8**	25	600	0.100	40	-45	0.004	250	60
810	10.0	4.5	36	125	2,250	0.275	475	-160	0.010	-	30
813	10.0	5.0	8.5**	100	1,500	0.180	190	-70	0.006	300	30
828	10.0	3.25	-	80	1,500	0.180	200	-100	-	400	30
832-A	6.3 12.6	1.6 0.8	6.5**	10	600	0.036	35	-65	-	200	200
833-A	10.0	10.0	35	400	4,000	0.450	1,440	-200	0.075	-	30
838	10.0	3.25	50	100	1,250	0.160	150	-150	0.026	-	30
845*	10.0	3.25	5.3	100	1,250	0.220	105	-105	0.030	-	15

* Conditions given are for Audio Amplifier Operation.
** Grid No. 2 to Grid No. 1.

NOTE: Typical operation as R-F amplifier and oscillator Class C telegraphy, key down conditions per tube, without modulation for frequencies indicated.

INTERELECTRODE CAPACITANCE - μμf			DESCRIPTION	TYPE NO.
G-P	G-F	P-F		
2.0	6.6	0.035	Forced-air cooled triode. UHF oscillator, frequency multiplier or R-F amplifier. Suited to cavity type circuits. Features low interelectrode capacitance, high (closely controlled) transconductance and high plate dissipations. Indirectly heated, oxide coated cathode.	2C39A
0.03	15.7	4.3	Forced-air cooled external anode tetrode. Suited for high power mobile applications. Makes an excellent wide-band amplifier for video application.	4X150A
Pg. 8)				AX4-125A/4D21
Pg. 8)				AX4-250A/5D22
0.03	15.7	4.5	Forced-air cooled external anode tetrode. Brazed radiator. Interchangeable with 4X150A where higher plate dissipation is required.	4X250B
0.05	12.8	5.6	Forced-air cooled external anode tetrode. Useful as power amplifier in FM, TV and VHF communication transmitters.	4X500A
6.9	6.2	1.2	Radiation-cooled triode. Original Amperex design and ruggedness make it ideally suited for R-F heating as well as for broadcasters and amateurs.	HF-200
7.0	8.8	1.2	Radiation-cooled triode, similar to HF-200, with different tube capacitance. Low voltage, high current characteristics.	HF-201A
2.9	5.0	0.7	Radiation-cooled high power triode. Used in low powered A-M broadcast stations. Also in electronic heating generators.	250-TH
3.1	3.7	0.7	Radiation-cooled triode. Low mu version of 250-TH.	250-TL
7.0	6.0	1.0	Radiation-cooled triode. Ideally suited for initial equipment and replacement for competitive types. Widely used in R-F heating applications, many commercial, police, and amateur transmitters.	HF-300
5.0	8.8	0.8	Radiation-cooled triode. Very popular in A-M broadcast stations and Government transmitters. Also used in R-F heating applications.	450-TH
4.5	6.8	0.8	Radiation-cooled, medium mu version of 450-TH.	450-TL
10.0	14.0	1.3	Forced-air cooled triode. Low voltage, high current characteristics. Ideal for R-F heating. Has a thoriated-tungsten filament.	501-R/5759
10.0	14.0	1.3	Water-cooled triode. Thoriated-tungsten filament. Compactness and low voltage, high current make it ideally suitable for R-F heating.	502/5760
10.0	14.0	1.3	Forced-air version of 502.	502-R/5761
10.0	14.0	1.3	Forced-air cooled triode similar to AMPEREX 501R minus flexible leads. Interchangeable with 7C26 with very minor circuit changes.	504R
17.0	26.0	2.5	Water-cooled triode. 40 kw output makes it ideally suited as high power R-F heating oscillator and R-F amplifier in A-M transmitters.	508/6246
5.8	8.5	1.2	Medium mu power triode. Amplifier, oscillator and modulator.	750TL
6.5	6.5	6.8	Radiation-cooled triode. Amperex rugged design makes it the popular choice in R-F and A-F stages of A-M broadcast stations.	805
0.2	11.0	7.0	Radiation-cooled tetrode. Popular replacement as well as for initial equipment.	807
4.8	8.7	12.0	Radiation-cooled triode. Thousands of Amperex 810's are used yearly in initial equipment and as direct replacement.	810
0.2	16.3	14.0	Radiation-cooled low drive beam tetrode. Widely used in A-M broadcasting stations, Government, and amateur service.	813
.07	Input 12 Output 14		Radiation-cooled beam pentode. Used in A-M broadcasting stations throughout world.	828
.05	Input 7.5 Output 3.8		Radiation-cooled twin tetrode. Used in mobile and shipboard transmitters, as well as other communications fields.	832-A
6.3	12.3	8.5	Radiation and forced-air cooled triode used widely in A-M transmitters and also some R-F heating applications. (Refer to AX-9902 data)	833-A
8.0	6.5	3.0	Radiation-cooled zero bias triode. Still popular in amateur, commercial and Government transmitters.	838
11.5	5.0	3.5	Radiation-cooled triode. Still popular in amateur, commercial and Government transmitters.	845*