

RAPID TUBE DATA REFERENCE TABLES

COMMUNICATION

INDUSTRIAL

RECTIFICATION

AMATEUR

ELECTRO-MEDICAL

SPECIAL PURPOSE



AMPEREX ELECTRONIC CORPORATION

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RADIO AND INDUSTRIAL AMPLIFIERS, OSCILLATORS, MODULATORS

Radiation Cooled

Maximum Plate Ratings				Maximum Frequency Megacycles		Mu	Gm	Filament Rating	Amperex Tube Type
Dissipation Watts	Input Watts	Volts	Amps.	At Maximum Plate Input	At 50% Maximum Plate Input				
5	6.25	250	0.025	30	90 at 93%	5	....	12.6V ² 0.25A	1626
8 12	20 32	400 500	0.050 0.080	20	60 at 62%	.....	3400	12.6V ² 0.7A	837
10 15	21 27	350 450	0.060 0.060	6	50	30	....	7.5V 1.25A	841
13.5 20	30 42	500 600	0.060 0.070	60	120	8	....	7.5V 1.25A	801A
25	125	2000	0.063	60	250	25	....	6.3V 3A	24G
25 30	60 75	600 750	0.100 0.100	60	125 at 55%	8	6000	6.3V ² 0.9A	★ 807 ⁴
25 30	60 75	600 750	0.100 0.100	60	125 at 55%	8	6000	12.6V ² 0.45A	★ 1625 ¹
35 50	100 125	1000 1250	0.100 0.100	100	350	10.5	2000	7.5A 3.1V	304B
35 50	100 125	1000 1250	0.100 0.100	100	350	10.5	2000	7.5V 3.1A	834
40 55	155 225	1250 1500	0.125 0.150	60	100 at 60%	160	....	6.3V 4A	811 ¹
40 55	155 225	1250 1500	0.125 0.150	60	100 at 60%	29	....	6.3V 4A	812 ¹
40 60	80 150	800 1000	0.100 0.150	15	65	25	....	10V 2A	★ 830B
75	255	1600	0.160	30	100	18	5000	10V 2.5A	★ HF60
75	255	1600	0.160	30	100	80	....	10V 2.5A	ZB60 ⁶
75	250	1500	0.165	20	100	14	....	10V 2.5A	★ 331
75	250	1500	0.165	20	100	14	....	10V 2.5A	★ 332
50 75	140 225	1250 1500	0.120 0.150	30	150	23	4200	10V 2.5A	★ HF100
50 75	140 225	1250 1500	0.120 0.150	30	50	23	4200	10V 2.5A	★ 111H
50 75	120 200	1000 1250	0.120 0.160	30	90	90	5000	10V 2.5A	ZB120
75 85	240 300	1250 1500	0.200 0.200	60	100 at 60%	20	....	10V 3.25A	★ 3005 ¹
100	150	1500	0.120	.....	.....	5.3	3100	10V 3.25A	AB150 ⁵
100	150	1250	0.120	.....	.....	5.3	3100	10V 3.5A	845 ⁵
67 100	210 220	1250 1250	0.175 0.210	15	80	12	4500	10V 3.25A	★ HF120

RADIO AND INDUSTRIAL AMPLIFIERS, OSCILLATORS, MODULATORS—continued

Radiation Cooled—continued

Maximum Plate Ratings				Maximum Frequency Megacycles		Mu	Gm	Filament Rating	Amperex Tube Type
Dissipation Watts	Input Watts	Volts	Amps.	At Maximum Plate Input	At 50% Maximum Plate Input				
85 100	210 260	1250 1500	0.175 0.175	30	90	25	4500	10V 3.25A	★ HF125
67 100	210 220	1250 1250	0.175 0.210	15	80	12	4500	10V 3.25A	★ HF140
67 100	175 220	1000 1250	0.175 0.175	15	80	25	4500	10V 3.25A	203A
85 100	210 260	1250 1500	0.175 0.175	30	90	25	4500	10V 3.25A	★ 203H
67 100	175 220	1000 1250	0.175 0.175	15	80	12	4500	10V 3.25A	211
67 100	210 220	1250 1250	0.175 0.175	15	80	12	4500	10V 3.25A	★ 211D
67 100	210 220	1250 1250	0.175 0.175	6	25	12.5	3600	10V 3.25A	242C
67 100	240 360	1600 2000	0.150 0.180	30	120	....	3750	10V 5A	813
67 100	175 220	1000 1250	0.175 0.175	30	120	50	4800	10V 3.25A	838
67 100	170 300	2000 3000	0.085 0.150	30	120	12	....	10V 3.25A	852
85 125	220 260	1250 1250	0.175 0.210	20	90	12.5	4300	10V 3.25A	★ HF130
85 125	220 315	1250 1500	0.175 0.210	30	100	12.5	4300	10V 3.25A	★ HF150
125	500	2000	0.200	25	100	18	4000	10V 4A	★ HF175
85 125	220 260	1250 1250	0.175 0.210	20	90	12.5	4300	10V 3.25A	★ 211C
85 125	220 315	1250 1500	0.175 0.210	30	100	12.5	4300	10V 3.25A	★ 211H
85 125	220 315	1250 1500	0.175 0.210	30	100	12.5	....	10V 3.25A	★ 333
85 125	220 260	1250 1250	0.175 0.210	20	50	12.5	4300	10V 3.25A	261A
85 125	220 260	1250 1250	0.175 0.210	30	50	12.5	4300	10V 3.25A	276A
85 125	250 350	1600 2000	0.160 0.175	20	60 at 60%	....	4000	10V 5A	803
85 125	220 315	1250 1500	0.175 0.210	30	80 at 55%	50	4800	10V 3.25A	805
120 150	400 500	2000 2500	0.200 0.200	30	100	18	5000	10.5V 4A	★ HF200
120 150	400 500	2000 3000	0.200 0.200	30	100	18	5000	10.5V 4A	★ HF250
125 150	450 620	1800 2250	0.250 0.275	30	100	36	....	10V 4.5A	810 ¹

RADIO AND INDUSTRIAL AMPLIFIERS, OSCILLATORS, MODULATORS—continued

Radiation Cooled—continued

Maximum Plate Ratings				Maximum Frequency Megacycles		Mu	Gm	Filament Rating	Amperex Tube Type
Dissipation Watts	Input Watts	Volts	Amps.	At Maximum Plate Input	At 50% Maximum Plate Input				
150 200	600 750	2200 3000	0.275 0.275	20	100	23	5600	11.5V 4A	★ HF300
167 250	550 690	2000 2500	0.275 0.275	3	30	23	4000	11V 3.85A	204A
250 250	375 525	1250 1750	0.300 0.300	1.5	3	8	7500	14V 6A	308B
200 275	525 700	1500 2000	0.350 0.350	1.5	3	16	8000	14V 6A	212E
200 275	525 700	1500 2000	0.350 0.350	7.5	20	16	8500	14V 6A	241B
200 300	835 1250	2500 3000	0.400 0.500	30	75 at 72%	35	....	10V 10A	★ 833A
300 350	675 1100	2250 3000	0.300 0.350	7.5	20	16	5700	10V 9.75A	270A
270 400	700 875	2000 2500	0.350 0.350	3	30	19	6000	11V 5A	849
400 500	1250 1750	3000 3500	0.500 0.500	20	40	19	7600	11V 7.7A	849A
400 500	1250 1750	3000 3500	0.500 0.500	20	40	19	7600	10V 11.5A	★ 849H
500 750	1800 2500	2000 2500	1.000 1.000	3	15	20.5	....	11V 15.5A	851

Water Cooled

Maximum Plate Ratings				Maximum Frequency Megacycles		Mu	Filament Rating	Amperex Tube Type
Dissipation Watts	Input Watts	Volts	Amps.	At Maximum Plate Input	At 50% Maximum Plate Input			
1660 2500	3000 7500	6000 7500	0.500 1.000	50	150	40	11V 51A	★ 846
5000	12500	10000	1.600	110	....	25	10V 200A	492 ⁰
3500 5000	6000 9000	6000 6000	1.000 1.500	3	20	17	21.5V 41A	★ 228A
3000 5000	6000 16000	6000 8500	1.000 2.000	50	150	21	11V 125A	★ 889A
4000 6000	8000 18000	8000 12000	1.000 2.000	1.6	20	8	11V ² 60A	891
6500 10000	10000 22500	10000 15000	1.250 1.500	4	30	35	21.5V 41A	220C
6500 10000	10000 30000	10000 15000	1.000 2.000	1.6	20	20	22V 52A	★ 207
5000 10000	15000 30000	7500 18000	1.000 1.250	16	30	40	21.5V 57.5A	★ 343A
6600 10000	10000 30000	10000 15000	1.000 2.000	1.6	20	50	11V ² 60A	★ 892

RADIO AND INDUSTRIAL AMPLIFIERS, OSCILLATORS, MODULATORS—continued
Water Cooled—continued

Maximum Plate Ratings				Maximum Frequency Megacycles		Mu	Filament Rating	Amperex Tube Type
Dissipation Watts	Input Watts	Volts	Amps.	At Maximum Plate Input	At 50% Maximum Plate Input			
10000 20000	12000 40000	12000 20000	1.000 2.000	1.6	40	42	22V 52A	858
12000 20000	18000 50000	12000 20000	1.500 3.000	1.6	40	36	11V ³ 71A	★ 859
12000 20000	24000 70000	12000 20000	2.000 4.000	5	40	36	10V ⁴ 61A	893A
15000 25000	28000 50000	14000 20000	2.000 3.000	3	30	40	20V 72A	★ 232C
15000 25000	25000 50000	12500 18000	1.200 2.500	4	30	40	20V 67A	★ 342A
25000	50000	15000	4.000	7.5	30	52	24V 70A	★ 233
25000	62500	12000	6.250	110	....	25	10V 600A	490 ⁶

Forced-Air Cooled

125	150	1000	0.150	1000	....	40	6.3V 2A ²	☆ 3C22
125	....	....	....	....	....	16	8.25V 7A	★ 8611 ⁶
350 450	1000 2000	4000 4000	0.450 0.500	20	75 at 65%	35	10V 10A	★ 833A ¹
750	....	....	....	....	....	40	8.3V 35A	★ 98R ⁶
1000	3000	3500	0.900	110	200	19	15V 40A	★ 234AR
1200	3000	3500	1.000	120	200	20.5	16V 38A	8002R
2500	....	5000	....	....	....	....	11V 32A	★ 230R ⁶
1500 2500	5000 10000	7000 10000	0.750 1.250	10	50	16	21V 40.5A	★ HF3000
2200 2500	3200 8000	10000 10000	0.750 1.250	10	50	85	21V 40.5A	★ ZB3200
3000	5500	6000	0.750	1.6	20	40	21.5V 41A	228R
3000	10000	10000	1.300	110	....	25	10V 200A	492R ⁶
2500 4000	8000 15000	8500 10000	1.000 2.000	1.6	20	8	11V ³ 60A	891R
2500 4000	10000 18000	10000 12500	1.000 2.000	1.6	20	50	11V ³ 60A	★ 892R
3000 5000	6000 16000	6000 8500	1.000 2.000	25	100	21	11V 125A	★ 889RA
5000 6000	10000 15000	9000 12500	1.250 1.500	10	30	35	21.5V 57A	★ 220R
12000 20000	24000 70000	12000 20000	2.000 4.000	5	25	36	10V 61A ⁴	893AR

RECTIFIERS

Mercury Vapor—Radiation Cooled

Amperex Tube Type	Filament		Peak Inverse Volts	Average Plate Current Amperes	Peak Plate Current Amperes
	Volts	Amperes			
816	2.5	2.0	5000	0.125	0.5
249B	2.5	7.5	7500	0.5	1.5
249C	2.5	7.5	7500	0.5	1.5
258B	2.5	7.5	7500	0.5	1.5
★ 866A/866	2.5	5.0	10000	0.25	1.0
267B	5.0	6.75	10000	1.25	5.0
★ 872A/872	5.0	6.75	10000	1.25	5.0
★ 8008	5.0	6.75	10000	1.25	5.0
315A	5.0	10.0	15000	1.5	6.0
★ 575A	5.0	10.0	15000	1.5	6.0
★ 673	5.0	10.0	15000	1.5	6.0
★ 869B	5.0	20.0	20000	2.5	10.0
266B	5.0	30.0	22000	10.0	40.0
★ 857B	5.0	30.0	22000	10.0	40.0

High Vacuum—Radiation Cooled

836	2.5	5.0	5000	0.25	1.0
1616	2.5	5.0	5500	0.13	0.8
217C	10.0	3.25	7500	0.15	0.6
221A	5.0	10.0	25000	0.3	1.5
★ 8020	5.0	6.0	40000	0.1	0.75
★ 401	20.0	35.0	120000	0.4	1.5

High Vacuum—Water Cooled

222A	21.5	41.0	25000	7.0 ⁸	5.5
237A	20.0	61.0	50000	10.0 ⁸	8.0
★ 562	22.0	52.0	50000	9.0 ⁸	7.5

GRID-CONTROLLED RECTIFIERS

★ 884	6.3	0.6	350	0.075 ⁷	0.3
★ 885	2.5	1.5	350	0.075 ⁷	0.3
★ 2050	6.3	0.6	1300	0.1 ⁷	1.0
★ 2051	6.3	0.6	700	0.075	0.375
★ 1701	2.5	5.0	5000	2.0 0.5	0.5 2.0
★ 1702 ⁶	5.0	7.5	15000	6.0 1.6	1.6 6.0

VACUUM CONDENSERS

Amperex Type	Maximum Peak Voltage	Maximum RMS Current		Capacitance $\mu\text{pf} \pm 2\%$	Maximum Overall Dimensions—Inches	
		Amperes	Megacycles		Length	Diameter
★ VC-25	30000	57	17	25	6.6	2.5
		35	90			
★ VC-50	30000	65	10	50	6.6	2.5
		40	60			