

RCA TRANSMITTING TUBE GUIDE

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The *Maximum Ratings* shown are for Continuous Commercial Service, unless otherwise shown.

^a Intermittent Commercial and Amateur Service ratings are also shown in data.

^b Typical power output is for two tubes, except for twin-unit types.

^c Cermolox type is a beam power tube with precision-aligned grids, unitized electrode-and-terminal in coaxial configuration, and ceramic-metal construction.

Cooling

C - Conduction

FA - Forced-Air

N - Natural

L - Liquid
(See Data)

Name

BPT - Beam Power Tube

CT - Beam Power Tube—
Cermolox Type^c

P - Pentode
PP - Twin Pentode

T - Triode
TBPT - Twin Beam Power Tube

TP - Triode Pentode

TR - Tetrode

TT - Twin Triode

TTR - Twin Tetrode

Typical Operation	RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
					Volts	Dissipation Watts
Class A Amplifiers, AF						
-	6F4^t	6.3	N	T	150	2
-	958A^t	1.25	N	T	135	0.6
-	5718^t	6.3	N	T	165	3.3
-	7060^t	12-15	N	TP	300	3
0.135	955^t	6.3	N	T	250	1.6
0.333	3A5^t	1.4/2.8	N	TT	135	0.5
0.6	5556	4.5	N	T	350	7.5
1.4	5618	3/6	N	P	300	5
2.7	5686^t	6.3	N	BPT	275	8.25
3	1619	2.5	N	BPT	400	15

Typical Operation	RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
					Volts	Dissipation watts
Class A Amplifiers, AF (cont'd)						
3.8	801A	7.5	N	T	600	20
3.9	2E24	6.3 ^d	N	BPT	300	10
6.5 ^a	802	6.3	N	P	500	-
30	845	10	N	T	1250	100
Class AB₁ Amplifiers, AF^b						
15 ^a	807	6.3	N	BPT	400	25 ^e
15 ^a	1625	12.6	N	BPT	400	25 ^e
17.5	1619	2.5	N	BPT	400	15
20.5 ^a	7551^t	12-15	N	BPT	300	10
20.5 ^a	7558^t	6.3	N	BPT	300	10
22 ^a	6146	6.3	N	BPT	400	20 ^e
22 ^a	6146W/7212	6.3	N	BPT	400	20 ^e
22 ^a	6159	26.5	N	BPT	400	20 ^e
22 ^a	6159W/7357	26.5	N	BPT	400	20 ^e
22 ^a	6883	12.6	N	BPT	400	20 ^e
22 ^a	7212	6.3	N	BPT	400	20 ^e
22 ^a	7357	26.5	N	BPT	400	20 ^e
22 ^a	8032	13.5	N	BPT	400	20 ^e
26.5 ^a	1614^t	6.3	N	BPT	375	21
40 ^a	2E26	6.3	N	BPT	600	10
40 ^a	6893	12.6	N	BPT	600	10
44	829B	6.3/12.6	N	TBPT	750	30
56 ^a	807	6.3	N	BPT	600	25
56 ^a	1625	12.6	N	BPT	600	25
80	6816	6.3	FA	CT	1000	115
80	6884	26.5	FA	CT	1000	115
80	7457	6.3	FA	CT	1000	115

^d Quick filament-heating type.

^e Triode connection, grid No. 2 connected to plate.
^t Data for this type located in *Receiving-Type Industrial Tubes Section*.



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Typical Operation	RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
					Volts	Dissipation Watts
Class AB ₁ Amplifiers, AFB (cont'd)						
80	7842	6.3	C	CT	1000	-
80	7843	26.5	C	CT	1000	-
80	7844	6.3	C	CT	600	-
82 ^a	6146	6.3	N	BPT	600	20
82 ^a	6146W/ 7212	6.3	N	BPT	600	20
82 ^a	6159	26.5	N	BPT	600	20
82 ^a	6159W/ 7357	26.5	N	BPT	600	20
82 ^a	6883	12.6	N	BPT	600	20
82 ^a	7212	6.3	N	BPT	600	20
82 ^a	7357	26.5	N	BPT	600	20
82 ^a	8032	13.5	N	BPT	600	20
115	845	10	N	T	1250	100
190 ^a	7271	13.5	FA	BPT	1100	60
300 ^a	828	10	N	BPT	1750	70
345	6155/ 4-125A	5	FA	BPT	3000	125
380 ^a	813	10	N	BPT	2250	100
410 ^a	7094	6.3	FA	BPT	1500	100
580	7034/ 4X150A	6	FA	BPT	2000	250
580	7035/ 4X150D	26.5	FA	BPT	2000	250
590	7203/ 4CX250B	6	FA	BPT	2000	250
590	7204/ 4CX250F	26.5	FA	BPT	2000	250
635	6156/ 4-250A	5	FA	BPT	4000	250
1600	7650	6.3	FA	CT	3000	600

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Typical Operation	RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
					Volts	Dissipation Watts
Class AB ₂ Amplifiers, AFB						
36	1619	2.5	N	BPT	400	15
40 ^a	6524	6.3	N	TBPT	500	20
40 ^a	6850	12.6	N	TBPT	500	20
42 ^a	2E24	6.3 ^d	N	BPT	400	10
42 ^a	2E26	6.3	N	BPT	600	10
42 ^a	815	6.3/ 12.6	N	TBPT	400	20
42 ^a	6893	12.6	N	BPT	600	10
72	1624	2.5	N	BPT	600	25
80 ^a	807	6.3	N	BPT	600	25
80 ^a	1625	12.6	N	BPT	600	25
90 ^a	6146	6.3	N	BPT	600	20
90 ^a	6146W/ 7212	6.3	N	BPT	600	20
90 ^a	6159	26.5	N	BPT	600	20
90 ^a	6159W/ 7357	26.5	N	BPT	600	20
90 ^a	6883	12.6	N	BPT	600	20
90 ^a	7212	6.3	N	BPT	600	20
90 ^a	7357	26.5	N	BPT	600	20
90 ^a	8032	13.5	N	BPT	600	20
140	6816	6.3	FA	CT	1000	115
140	6884	26.5	FA	CT	1000	115
140	7457	6.3	FA	CT	1000	115
140	7842	6.3	C	CT	1000	-
140	7843	26.5	C	CT	1000	-
140	7844	6.3	C	CT	1000	-
550	6155/ 4-125A	5	FA	BPT	3000	125
630	7034/ 4X150A	6	FA	BPT	2000	250

^d Quick filament-heating type.



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Typical Operation Power Output Approx. Watts	RCA Type	Fila- ment or Heater Volts	Cool- ing	Name	Max. Plate Ratings	
					Volts	Dissi- pation Watts
Class AB₂ Amplifiers, AF^b (cont'd)						
630	7035/ 4X150D	26.5	FA	EPT	2000	250
1240	6156/ 4-250A	5	FA	EPT	4000	250
Class B Amplifiers, AF^b						
45	801A	7.5	N	T	600	20
105 ^a	809	6.3	N	T	750	25
175	830B	10	N	T	1000	60
235 ^a	811A	6.3	N	T	1250	45
235 ^a	812A	6.3	FA	T	1250	45
250 ^a	8005	10	N	T	1250	75
260	838	10	N	T	1250	100
370	805	10	N	T	1500	125
590 ^a	810	10	N	T	2500	125
600 ^a	8000	10	N	T	2500	125
1640	5786	11	FA	T	4000	600
1650 ^a	833A	10	N	T	3000	300
2400 ^a	833A	10	FA	T	4000	400
8800	5762/ 7C24	12.6	FA	T	6200	3000
8800	5762A	12.6	FA	T	6200	4000
10000	891R	22	FA	T	10000	3500
10500	892R	22	FA	T	12500	4000
15000	889A	11	L	T	8500	5000
15000	889RA	11	FA	T	8500	5000
22000	891	22	L	T	15000	5000
22000	892	22	L	T	15000	7500
22500	207	22	L	T	15000	7500
46000	880	12.6	L	T	10500	15000
50000	9C25	6	FA	T	11500	17500

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Typical Operation Power Output Approx. Watts	RCA Type	Fila- ment or Heater Volts	Cool- ing	Name	Max. Plate Ratings	
					Volts	Dissi- pation Watts
Class B Amplifiers, AF^b (cont'd)						
55000	5771	7.5	L	T	12500	22500
61000	9C21	19.5	L	T	15000	40000
61000	9C22	19.5	FA	T	15000	20000
100000	5671	11	FA	T	15000	25000
117000	5770	11	L	T	15000	50000
Class B Amplifiers, RF Telephony						
2	5556	4.5	N	T	350	10
3.5 ^a	802	6.3	N	P	500	10
7.5	801A	7.5	N	T	600	20
10.5 ^{a, f}	815	6.3/ 12.6	N	TEPT	400	20
12.5 ^a	807	6.3	N	EPT	600	25
12.5 ^a	809	6.3	N	T	750	25
12.5 ^a	1625	12.6	N	EPT	600	25
16 ^a	804	7.5	N	P	1250	40
20	834	7.5	N	T	1250	50
25 ^a	814	10	N	EPT	1250	50
26	830B	10	N	T	1000	60
36 ^a	828	10	N	EPT	1250	70
40	860	10	N	TR	3000	100
40 ^a	8005	10	N	T	1250	75
42.5	838	10	N	T	1250	100
50 ^a	813	10	N	EPT	2000	100
53	803	10	N	P	2000	125
57.5	805	10	N	T	1500	125
58	6155/ 4-125A	5	FA	EPT	3000	125
60 ^a	810	10	N	T	2000	125
65 ^a	8000	10	N	T	2000	125
126	6156/ 4-250A	5	FA	EPT	4000	250

^f Both sections.



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Typical Operation		RCA Type	Fila-ment or Heater Volts	Cool-ing	Name	Max. Plate Ratings	
Power Output Approx. Watts	Volts					Dissi-pation Watts	
Class B Amplifiers, RF Telephony (cont'd)							
150 ^a		833A	10	N	T	3000	300
225 ^a		833A	10	FA	T	4000	400
400		827R	7.5	FA	BPT	3500	800
1800		892R	22	FA	T	12500	4000
2000		889A	11	L	T	8500	5000
2000		889RA	11	FA	T	8500	5000
4000		207	22	L	T	15000	10000
4000		892	22	L	T	15000	10000
9000		880	12.6	L	T	10500	20000
10000		9C25	6	FA	T	11500	17500
12000		5771	7.5	L	T	12500	22500

Typical Operation		RCA Type	Fila-ment or Heater Volts	Cool-ing	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissi-pation Watts
Class B Amplifiers, Television Service							
230	900	6161	6.3	FA	T	1600	250
250	216	7034/ 4X150A	6	FA	BPT	1250	250
250	216	7035/ 4X150D	26.5	FA	BPT	1250	250
440	216	7203/ 4CX250B	6	FA	BPT	2000	250
440	216	7204/ 4CX250F	26.5	FA	BPT	2000	250
1200	900	6181	120	FA	BPT	2000	2000

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Typical Operation		RCA Type	Fila-ment or Heater Volts	Cool-ing	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissi-pation Watts
Class B Amplifiers, Television Service (cont'd)							
4000	216	5762/ 7C24	12.6	FA	T	3700	3000
6350	216	5762A	12.6	FA	T	4500	4000
12000	216	6166	5	FA	BPT	6000	10000
12000	800	6448	1.35	L	BPT	7000	26000
14000	216	6166A/ 7007	5	FA	BPT	7500	12000
19000	800	6806	1.35	L	BPT	9000	36000
Class C Amplifiers, Plate-Modulated RF Telephony							
-	-	4037	6.3	N	T	275	4.25
-	-	5876	6.3	N	T	275	4.25
-	-	5876A	6.3	N	T	275	4.25
1.7	3000	7801	12.6	C	CT	750	-
1.7	3000	7870	6.3	C	CT	750	-
3.5 ^a	500	6939^t	6.3/ 12.6	N	PP	200	4
4	-	5556	4.5	N	T	350	7
5.5 ^a	500	5893	6	N	T	260	5
6	-	1613	6.3	N	P	275	7
6.4 ^a	30	5763	6	N	BPT	250	8
6.4 ^a	30	6417	12.6	N	BPT	250	8
6.5 ^a	175	7551^t	13.5	N	BPT	250	7
6.5 ^a	175	7558^t	6.3	N	BPT	250	7
6.5	175	7905^t	6.3	N	BPT	250	7
6.7 ^a	500	6263	6	N	T	275	5.5
6.7 ^a	500	6263A	6	N	T	275	5.5
8 ^a	-	802	6.3	N	P	400	6.7
9 ^{a,f}	462	6524	6.3	N	TBPT	400	13.5
9 ^{a,f}	462	6580	12.6	N	TBPT	400	13.5
11	-	837	12.6	N	P	400	8

^f Both sections.

^t Data for this type located in *Receiving-Type Industrial Tubes* Section.



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Typical Operation		RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, Plate-Modulated RF Telephony (cont'd)							
11.5 ^a	-	1614	6.3	N	EPT	325	14 ^e
13	-	1619	2.5	N	EPT	325	10
13.5 ^a	-	2E24	6.3 ^d	N	EPT	400	6.7
13.5 ^a	-	2E26	6.3	N	EPT	400	6.7
13.5 ^a	-	6893	12.6	N	EPT	400	6.7
15	-	1614	6.3	N	BPT	325	14
17 ^{a, f}	-	832A	6.3/ 12.6	N	TBPT	600	10
17	400	7801	12.6	C	CT	750	-
17	400	7870	12.6	C	CT	750	-
18	-	801A	7.5	N	T	500	13.5
24	-	1624	2.5	N	EPT	500	16.5
28 ^a	-	807	6.3	N	EPT	475	16.5
28 ^a	-	1625	12.6	N	EPT	475	16.5
30 ^{a, f}	-	815	6.3/ 12.6	N	TBPT	325	13.5
34 ^a	-	6146	6.3	N	EPT	480	13.3
34 ^a	-	6146W/ 7212	6.3	N	EPT	480	13.3
34 ^a	-	6159	26.5	N	EPT	480	13.3
34 ^a	-	6159W/ 7357	26.5	N	EPT	480	13.3
34 ^a	-	6883	12.6	N	EPT	480	13.3
34 ^a	60	7212	6.3	N	EPT	480	13.3
34 ^a	60	7357	26.5	N	EPT	480	13.3
34 ^a	60	8032	13.5	N	EPT	480	13.3
38 ^a	-	809	6.3	N	T	600	17.5
45	400	6816	6.3	FA	CT	800	75
45	400	6884	26.5	FA	CT	800	75
45	400	7457	6.3	FA	CT	800	75
45	400	7842	6.3	C	CT	800	-

^d Quick filament-heating type.

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Typical Operation		RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, Plate-Modulated RF Telephony (cont'd)							
45	400	7843	26.5	C	CT	800	-
45	400	7844	6.3	C	CT	800	-
50 ^a	-	804	7.5	N	P	1000	27
50 ^{a, f}	-	829B	6.3/ 12.6	N	TBPT	600	21
50	-	830B	10	N	T	800	40
58	-	834	7.5	N	T	1000	35
65	1000	5588	6.3	FA	T	800	130
70 ^{a, f}	-	829B	6.3/ 12.6	FA	TBPT	600	28
85 ^a	-	812A	6.3	N	T	1000	30
87 ^a	-	814	10	N	EPT	1000	34
88 ^a	-	811A	6.3	N	T	1000	30
90 ^a	60	7271	13.5	FA	EPT	900	40
100 ^a	-	828	10	N	EPT	1000	47
100	-	838	10	N	T	1000	67
105	-	860	10	N	TTR	2000	67
115 ^a	-	8005	10	N	T	1000	50
120	900	6161	6.3	FA	T	1300	167
140	-	805	10	N	T	1250	85
155	-	803	10	N	P	1600	85
180 ^a	60	7094	6.3	FA	EPT	1000	67
180 ^a	-	813	10	FA	EPT	1600	67
230	150	7034/ 4X150A	6	FA	EPT	1600	165
230	150	7035/ 4X150D	26.5	FA	EPT	1600	165
235	175	7203/ 4CX250B	6	FA	EPT	1500	165
235	175	7204/ 4CX250F	26.5	FA	EPT	1500	165

^e Triode connection, gridNo.2 connected to plate.
^f Both sections.



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Typical Operation		RCA Type	Fila-ment or Heater Volts	Cool-ing	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, Plate-Modulated RF Telephony (cont'd)							
250 ^a	-	810	10	N	T	1600	85
250 ^a	-	8000	10	N	T	1600	85
300	-	6155/ N-125A	5	FA	EPT	2500	83
510	-	6156/ N-250A	5	FA	EPT	3200	165
600	400	7650	6.3	FA	CT	2000	400
635	-	833A	10	N	T	2500	200
800	600	7213	5.5	FA	CT	2000	1000
810	-	5786	11	FA	T	2500	400
825	-	827R	7.5	FA	EPT	3000	550
950	400	6181	120	FA	EPT	1600	1300
1000	-	833A	10	FA	T	3000	270
4000	-	889A	11	L	T	6000	3000
4000	-	889RA	11	FA	T	6000	3000
4200	30	5762/ 7C24	12.6	FA	T	5000	2000
4200	30	5762A	12.6	FA	T	5000	2700
4500	900	6448	1.35	L	EPT	4500	16500
5000	-	892R	22	FA	T	10000	2500
5500	60	6166	5	FA	EPT	5000	6600
6000	-	207	22	L	T	10000	6600
6000	-	892	22	L	T	10000	6600
6000	60	6166A/ 7007	5	FA	EPT	5500	8000
10000	400	6806	1.35	L	EPT	5500	17000
18000	-	9C25	6	FA	T	9000	11500
27000	-	880	12.6	L	T	10500	12000
29000	-	5771	7.5	L	T	10000	15000
38000	-	9C21	19.5	L	T	12500	28000
38000	-	9C22	19.5	FA	T	12500	14000
40000	1.6	5671	11	FA	T	12500	17000
45000	-	5770	11	L	T	12500	33000

Typical Operation		RCA Type	Fila-ment or Heater Volts	Cool-ing	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, Grid-Modulated RF Telephony							
3.8	-	1619	2.5	N	EPT	400	15
4 ^a	-	802	6.3	N	P	500	10
5.5	-	837	12.6	N	P	500	12
8	-	1624	2.5	N	EPT	600	25
10.5 ^{a,f}	-	815	6.3/ 12.6	N	TEPT	400	20
21 ^a	-	804	7.5	N	P	1250	40
29 ^a	-	814	10	N	EPT	1250	50
36 ^a	-	828	10	N	EPT	1250	70
50 ^a	-	813	10	N	EPT	2000	100
53	-	803	10	N	P	2000	125
65 ^a	-	8000	10	N	T	2000	125
400	-	827R	7.5	FA	EPT	3500	800
600	400	7650	6.3	FA	CT	2000	400
Class C Amplifiers, Suppressor-Modulated RF Telephony							
3.5 ^a	-	802	6.3	N	P	500	10
5	-	837	12.6	N	P	500	12
21 ^a	-	804	7.5	N	P	1250	40
53	-	803	10	N	P	2000	125
Class C Amplifiers, Television Service							
230	900	6161	6.3	FA	T	1600	250
1200	900	6181	120	FA	EPT	2000	2000
4000	216	5762/ 7C24	12.6	FA	T	3700	3000
4000	216	5762A	12.6	FA	T	3700	4000
5300 ^f	216	8D21	3.2	L	TTR	6000	6000
12000	216	6166	5	FA	EPT	6000	10000
12000	216	6166A/ 7007	5	FA	EPT	7500	12000

^f Both sections.



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Typical Operation		RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, RF Telegraphy							
-	1000	5718^t	6.3	N	T	165	3.3
0.475	1700	5675	6.3	N	T	300	5
0.5	-	955^t	6.3	N	T	180	-
0.6	-	958A^t	1.25	N	T	135	0.6
1.8	-	6F4^t	6.3	N	T	150	2
2	40	3A5^t	1.4-2.8	N	TT	135	1
2.2	500	7554	6.3	N	T	250	2.5
3.2	3000	7801	12.6	C	CT	750	-
3.2	3000	7870	6.3	C	CT	750	-
3.5	40	7060^t	12-15	N	T-P	300	2.75
4	-	1626	12.6	N	T	250	5
4	40	7054^t	13.5	N	P	300	5
4	40	8077^t/ 7054	13.5	N	P	300	5
5	500	4037	6.3	N	T	360	6.25
5	500	5876	6.3	N	T	360	6.25
5	500	5876A	6.3	N	T	360	6.25
5 ^a	500	6939^t	6.3/ 12.6	N	PP	250	6
5.4 ^g	40	5618	3/6	N	P	300	5
5.5	1000	5893	6	N	T	320	7
6	-	5556	4.5	N	T	350	10
6.5	160	5686	6.3	N	BPT	275	8.25
7 ^a	500	6263	6	N	T	330	8
7 ^a	500	6263A	6	N	T	330	8
7 ^g	175	7905^t	6.3 ^d	N	BPT	300	10
7.5 ^a	500	6264A	6	N	T	330	8
8.5 ^a	175	7551^t	13.5	N	BPT	300	10
8.5 ^a	175	7558^t	6.3	N	BPT	300	10
9	-	1613^t	6.3	N	P	350	10
10.3 ^a	30	5763	6	N	BPT	300	12
10.3 ^a	30	6417	12.6	N	BPT	300	12

^d Quick filament-heating type. ^f Both sections.

RCA TRANSMITTING TUBE GUIDE

Typical Operation		RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, RF Telegraphy (cont'd)							
16 ^a	-	802	6.3	N	P	500	10
17	2500	6897	6.3	FA	T	1000	100
19.5	-	1619	2.5	N	BPT	400	15
20 ^a	125	2E24	6.3 ^d	N	BPT	500	10
20 ^a	125	2E26	6.3	N	BPT	500	10
20 ^a	125	6893	12.6	N	BPT	500	10
21	-	1614	6.3	N	BPT	375	21
22	-	837	12.6	N	P	500	12
25	-	801A	7.5	N	T	600	20
26 (a,f)	-	832A	6.3/ 12.6	N	TBPT	750	15
27	400	7801	12.6	C	CT	750	-
27	400	7870	6.3	C	CT	750	-
30 ^g	175	4604	6.3 ^d	N	BPT	750	25
35	-	1624	2.5	N	BPT	600	25
40 ^a	-	807	6.3	N	BPT	600	25
40 ^a	-	1625	12.6	N	BPT	600	25
40	1215	6816	6.3	FA	CT	1000	115
40	1215	6884	26.5	FA	CT	1000	115
40	1215	7457	6.3	FA	CT	1000	115
40	1215	7842	6.3	C	CT	1000	-
40	1215	7843	26.5	C	CT	1000	-
40	1215	7844	6.3	C	CT	1000	-
44 (a,f)	-	815	6.3/ 12.6	N	TBPT	400	20
46 (a,f)	100	6524	6.3	N	TBPT	500	20
46 (a,f)	100	6850	12.6	N	TBPT	500	20
52 ^a	60	6146	6.3	N	BPT	600	20
52 ^a	60	6146W/ 7212	6.3	N	BPT	600	20

^g Intermittent Commercial and Amateur Service only.
^t Data for this type located in *Receiving-Type Industrial Tubes* Section.



RCA TRANSMITTING TUBE GUIDE

RCA TRANSMITTING TUBE GUIDE

Typical Operation		RCA Type	Fila- ment or Heater Volts	Cool- ing	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, RF Telegraphy (cont'd)							
52 ^a	60	6159	26.5	N	EPT	600	20
52 ^a	60	6159W/ 7357	26.5	N	EPT	600	20
52 ^a	60	6883	12.6	N	EPT	600	20
52 ^a	60	7212	6.3	N	EPT	600	20
52 ^a	60	7357	26.5	N	EPT	600	20
52 ^a	60	8032	13.5	N	EPT	600	20
55 ^a	-	809	6.3	N	T	750	25
70 ^{a, f}	-	8298	6.3/ 12.6	N	TBPT	750	30
75	-	834	7.5	N	T	1250	50
80 ^a	-	804	7.5	N	P	1250	40
85	470	8072	12-15	C	EPT	2200	-
86 ^a	-	826	7.5	FA	T	1000	60
90 ^{a, h}	-	826	7.5	N	T	1000	45
90 ^{a, f}	-	8298	6.3/ 12.6	FA	TBPT	750	40
90	-	8308	10	N	T	1000	60
100	1000	5588	6.3	FA	T	1000	200
130 ^a	-	812A	6.3	N	T	1250	45
130 ^a	-	814	10	N	EPT	1250	50
130	-	838	10	N	T	1250	100
135 ^a	-	811A	6.3	N	T	1250	45
150 ^a	-	828	10	N	EPT	1250	70
160 ^a	60	7271	13.5	FA	EPT	1100	60
165	-	860	10	N	TTR	3000	100
170 ^a	-	8005	10	N	T	1250	75
180	900	6161	6.3	FA	T	1600	250
210	-	803	10	N	P	2000	125
215	-	805	10	N	T	1500	125
235	470	8121	13.5	FA	EPT	2200	150
250	500	7203/ 4CX250B	6	FA	EPT	2000	250

TRANSMITTING TUBE GUIDE

Typical Operation		RCA Type	Fila- ment or Heater Volts	Cool- ing	Name	Max. Plate Ratings	
Power Output Approx. Watts	Freq. Mc					Volts	Dissipation Watts
Class C Amplifiers, RF Telegraphy (cont'd)							
250	500	7204/ 4CX250F	26.5	FA	EPT	2000	250
255 ^a	60	7094	6.3	FA	EPT	1250	100
275 ^a	-	813	10	N	EPT	2000	100
300	470	8122	13.5	FA	EPT	2200	400
325	220	5713	3.3	FA	T	1500	250
370	150	7034/ 4X150A	6	FA	EPT	2000	250
370	150	7035/ 4X150D	26.5	FA	EPT	2000	250
375 ^a	-	810	10	N	T	2000	250
375 ^a	-	8000	10	N	T	2000	125
375	-	6155/ 4-125A	5	FA	EPT	3000	125
375	1215	7650	6.3	FA	CT	2500	700
600	900	6181	120	FA	EPT	2000	2000
1000 ^a	-	833A	10	N	T	3000	300
1000	-	5786	11	FA	T	3000	600
1000	-	6156/ 4-250A	5	FA	EPT	4000	250
1050	-	827R	7.5	FA	EPT	3500	800
1350	600	7213	5.5	FA	CT	2500	1500
1440 ^a	-	833A	10	FA	T	4000	400
6500 ^{a, f}	300	8D21	3.2	L	TTR	6000	6000
7000	30	5762/ 7C24	12.6	FA	T	6200	3000
7000	30	5762A	12.6	FA	T	6200	4000
9000	216	6166	5	FA	EPT	6900	10000
10000	-	899A	11	L	T	8500	5000
10000	-	899RA	11	FA	T	8500	5000

f Both sections.

h Intermittent Commercial and Amateur Service.



RCA TRANSMITTING TUBE GUIDE

Typical Operation		RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
Power Output Approx. watts	Freq. Mc					Volts	Dissipation watts
Class C Amplifiers, RF Telegraphy (cont'd)							
10000	-	891	22	L	T	12000	6000
10000	-	891R	22	FA	T	10000	4000
10000	-	892R	22	FA	T	18000	4000
10000	216	6166A/7007	5	FA	BPT	7500	12000
11000	900	6448	1.35	L	BPT	7000	26000
13500	900	6806	1.35	L	BPT	9000	35000
14000	-	892	22	L	T	15000	10000
15000	-	207	22	L	T	15000	10000
32500	-	9C25	6	FA	T	11500	17500
40000	25	880	12.6	L	T	10500	20000
44000	25	5771	7.5	L	T	12500	22500
65000	-	9C22	19.5	FA	T	17000	20000
70000	1.6	5671	11	FA	T	15000	25000
100000	-	9C21	19.5	L	T	17000	40000
114000	-	5770	11	L	T	17000	50000
500000	0.425	6949	7.3-7.8	L	T	20000	40000
Class C Amplifiers or Oscillators Self-Rectifying							
175 ^j	27	811A	6.3	N	T	1750	45 ^k
200 ^j	27	812A	6.3	N	T	1750	145
225	-	813	10	N	BPT	2800	100
330 ^j	50	8005	10	N	T	1750	75
650 ^j	30	8000	10	N	T	2500	125
835 ^a	-	833A	10	N	T	4250	300
1050	-	5786	11	FA	T	4250	600
1150	-	833A	10	FA	T	5650	400
3350	-	5762/7C24	12.6	FA	T	7000	3000
3350	-	5762A	12.6	FA	T	7000	4000

^j Two tubes.

^k Not recommended as oscillator in this class of service.

RCA TRANSMITTING TUBE GUIDE

Typical Operation		RCA Type	Filament or Heater Volts	Cooling	Name	Max. Plate Ratings	
Power Output Approx. watts	Freq. Mc					Volts	Dissipation watts
Class C Amplifiers or Oscillators With Separate Plate Supply							
135	-	811A	6.3	N	T	1125	45 ^k
135	-	812A	6.3	N	T	1125	45 ^k
280	-	813	6.3	N	BPT	1800	100
330 ^j	27	8005	10	N	T	1125	75
700 ^j	30	8000	10	N	T	1800	125
1100 ^a	-	833A	10	N	T	2700	300
1150	-	5786	11	FA	T	2700	600
1460	-	833A	10	FA	T	3600	400
5650	-	5762/7C24	12.6	FA	T	5600	3000
5650	-	5762A	12.6	FA	T	5600	4000
Linear RF Amplifiers Single-Sideband Suppressed Carrier—Two-Tone Modulation							
80	30	8072	12-15	C	BPT	2200	-
95 ^a	60	7271	13.5	FA	BPT	1100	60
120	30	811A	6.3	N	T	1250	45
170	30	8121	13.5	FA	BPT	1100	60
295	30	7203/4CX250B	6	FA	BPT	2000	250
295	30	7204/4CX250F	26.5	FA	BPT	2000	250
360	500	7580	6	FA	BPT	2000	250
380	30	8122	13.5	FA	BPT	2200	400
680	30	7650	6.3	FA	BPT	2500	600
600000	10	6949	7.3-7.8	L	T	20000	40000

^m See data for exact classification in each case.

ⁿ Peak value.

^p See data for further information on each type.

^r In phase operation, unless otherwise specified.

^s Quadrature operation.

^t Data for this type located in *Receiving-Type Industrial Tubes* Section.



RCA TRANSMITTING TUBE GUIDE

RCA TRANSMITTING TUBE GUIDE

TRANSMITTING TUBE GUIDE

Typical Operation		RCA Type	Fila-ment or Heater Volts	Cool-ing	Name	Max. Plate Ratings	
Power Output Approx. kw	Freq. Mc					Volts	Dissi-pation Watts
Plate-Pulsed Amplifiers or Oscillators^m							
1.2	3300	5893	6	N	T	1750 ⁿ	6
4.5	1215	7649	6.3	FA	CT	3000 ⁿ	115
14	1250	5946	6.3	FA	T	7500 ⁿ	250
39	1215	7651	6.3	FA	CT	8000 ⁿ	600
65	1215	7214	5.5	FA		10000 ⁿ	1500
-	500	8184	22-23	FA	CT	25000 ⁿ	10000
2000	425	6952	0.95	L	HPT	55000 ⁿ	8000
2000	425	4605V2	0.95	L	HPT	55000 ⁿ	8000
Grid-Pulsed Amplifiers or Oscillators^m							
2.3	1215	7649	6.3	FA	CT	2250	115
20	1215	7214	5.5	FA	CT	5000	1500
20	1215	7651	6.3	FA	CT	5000	600
Power Tubes for Special Applications^p							
<i>Control Amplifier</i>							
3C33							
<i>CW Oscillator (Klystron)</i>							
2K26							
<i>Frequency Multipliers</i>							
5618	6161		6850			7554	
5763	6264A		6939^t			7558^t	
5876	6417		7054^t			7905^t	
5876A	6524		7551^t			8077/7054^t	
5893							
<i>Linear RF Power Amplifier—AM Telephony</i>							
7580							
<i>Modulator—Rectangular-Wave Modulation</i>							
3E29	6293		7358				
<i>Pulsed-Oscillators (Magnetrons)</i>							
6521	6865A		7008			7111	
<i>Class C Oscillator</i>							
6026	6562/5794A		7533				
<i>Traveling-Wave Tube</i>							
6861							

RCA Type	Fila-ment or Heater Volts	Maximum Plate Ratings ^r		
		Peak Reverse Volts	Peak Amperes	Average Amperes
Rectifiers				
<i>Half-Wave, Mercury-Vapor Types</i>				
816	2.5	7500	0.5	0.125
866A	2.5	10000	1	0.25
866A	2.5	2500	2	0.5
872A	5	10000	5	1.25
8008	5	10000	5	1.25
575A	5	15000	6	1.5
673	5	15000	6	1.5
6894	5	20000	8.3	1.8
6895	5	20000	8.3	1.8
575A	5	15000 ^s	10 ^s	2.5 ^s
673	5	15000 ^s	10 ^s	2.5 ^s
615/7018	2.5	2000	10	2.5
869B	5	20000	10	2.5
5558	5	5000	15	2.5
6894	5	20000 ^s	11.5 ^s	2.5 ^s
6895	5	20000 ^s	11.5 ^s	2.5 ^s
5561	5	10000	16	4
869B	5	15000 ^s	20 ^s	5 ^s
635/7019	2.5	1000	77	6.4
635L/7020	2.5	1000	77	6.4
5561	5	3000	40	6.4
857B	5	22000	40	10
<i>Full-Wave, Mercury-Vapor Type</i>				
604/7014	2.5	900	10	2.5
<i>Half-Wave, Gas Types</i>				
3B28	2.5	10000	1	0.25
3B25	2.5	4500	2	0.5
3B28	2.5		2	0.5
<i>Half-Wave, Vacuum Types</i>				
5825	1.6	60000	0.04	0.002
2X2A	2.5	12500	0.06	0.0075
8013A	2.5	40000	0.15	0.02
579B	2.5	20000	0.27	0.25
8020	5	40000	0.75	0.1
1616	2.5	6000	0.8	0.13
836	2.5	5000	1	0.25

For footnotes, see reverse side.



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