

Western Electric Company

TELEPHONE BROAD CASTING

Class B—R-F Amplifier

Typical Output Power Watts	Code No.	Filament		Plate Volts
		Volts	Amps.	
10	254A	5.0	3.25	750
12.5	254B	7.5	3.25	750
12.5	268A	5.0	3.25	750
25	356A	5.0	5.0	1500
25	364A	5.0	5.0	1500
30	305A	10.0	3.1	1000
33	282A	10.0	3.0	1000
42.5	295A	10.0	3.25	1250
50	242C	10.0	3.25	1250
50	276A	10.0	3.0	1250
57.5	331A	10.0	3.25	1500
125	308B	14.0	6.0	1750
150	212E	14.0	6.0	2000
150	241B	14.0	6.0	2000
175	270A	10.0	9.75	3000
175	357A	10.0	10.0	4000
175	363A	10.0	10.0	4000
400	251A	10.0	16.0	3000
600	279A	10.0	21.0	3000
1100	228A	21.5	41.0	5000
*2500	*343AA	21.5	57.5	15000
2750	220C	21.5	41.0	11000
3500	343A	21.5	57.5	15000
5000	240B	21.5	41.0	12000
5000	236A	21.5	41.0	15000
8500	342A	20.0	67.0	18000
9000	232B	20.0	60.0	17500
9000	340A	20.0	72.0	18000
25000	298A	27.0	225.0	18000
25000	298B	27.0	225.0	18000

Class C—R-F Amplifier Unmodulated

Typical Output Power Watts	Code No.	Filament		Plate Volts
		Volts	Amps.	
2.5	368AS	1.2	4.25	300
3	368A	1.2	4.25	300
7.5	316A	2.0	3.65	450
12	388A	1.5	9.1	450
15	307A	5.5	1.0	500
30	251A	5.0	3.25	750
30	268A	5.0	3.25	750
37.5	254B	7.5	3.25	750
67	282A	10.0	3.0	1000
85	305A	10.0	3.1	1000
85	312A	10.0	2.8	1250
100	276A	10.0	3.0	1250
100	356A	5.0	5.0	1500
100	364A	5.0	5.0	1500
125	295A	10.0	3.25	1250
130	242C	10.0	3.25	1250
180	332A	10.0	5.0	2000
210	322A	10.0	5.0	2000
215	331A	10.0	3.25	1500
350	308B	14.0	6.0	1750
400	212E	14.0	6.0	2000
400	241B	14.0	6.0	2000
700	270A	10.0	9.75	3000
1200	251A	10.0	16.0	3000
1250	357A	10.0	10.0	4000
1250	363A	10.0	10.0	4000
1600	279A	10.0	21.0	3000
5000	228A	21.5	41.0	6000
10000	220C	21.5	41.0	10000
10000	343AA	21.5	57.5	15000
12000	236A	21.5	41.0	12000
12000	240B	21.5	41.0	12000
15000	343A	21.5	57.5	18000
25000	232B	20.0	60.0	15000
30000	340A	20.0	72.0	18000
30000	342A	20.0	67.0	18000
80000	298A	27.0	225.0	18000
100000	298B	27.0	225.0	18000

Class C—R-F Amplifier—Suppressor-Grid Modulated—Carrier Conditions

Typical Output Power Watts	Code No.	Filament		Plate Volts	Typical Output Power Watts	Code No.	Filament		Plate Volts
		Volts	Amps.				Volts	Amps.	
6	307A	5.5	1.0	500	23	312A	10.0	2.8	1250
					53	322A	10.0	5.0	2000

Class C—R-F Amplifier Plate Modulated

Typical Output Power Watts	Code No.	Filament		Plate Volts	Typical Output Power Watts	Code No.	Filament		Plate Volts
		Volts	Amps.				Volts	Amps.	
4.0	388A	1.5	9.1	400	300	212E	14.0	6.0	1500
6.5	316A	2.0	3.65	400	300	241B	14.0	6.0	1500
7	306A	2.75	2.0	300	450	270A	10.0	9.75	2250
20	254A	5.0	3.25	500	780	357A	10.0	10.0	3000
20	268A	5.0	3.25	500	780	363A	10.0	10.0	3000
25	254B	7.5	3.25	500	900	251A	10.0	16.0	2250
50	282A	10.0	3.0	750	900	279A	10.0	21.0	2250
70	305A	10.0	3.1	800	2500	228A	21.5	41.0	4000
85	276A	10.0	3.0	1000	5000	343A	21.5	57.5	7500
85	356A	5.0	5.0	1250	5000	343AA	21.5	57.5	7500
85	364A	5.0	5.0	1250	5500	220C	21.5	41.0	7500
100	242C	10.0	3.25	1000	8500	240B	21.5	41.0	9000
100	295A	10.0	3.25	1000	10000	236A	21.5	41.0	10000
135	332A	10.0	5.0	1600	10000	340A	20.0	72.0	12500
140	331A	10.0	3.25	1250	10000	342A	20.0	67.0	12500
155	322A	10.0	5.0	1600	12500	232B	20.0	60.0	12500
250	308B	14.0	6.0	1250	40000	298A	27.0	225.0	12000
					45000	298B	27.0	225.0	12000

*Revised ratings in this classification sheet supercede those in data sheet.

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TELEPHONE BROADCASTING

SMALL TUBES

Triodes

General Description	Code No.	†Type Cathode	Filament		Plate Volts
			Volts	Amperes	
Voltage Amp. ($\mu = 31$)	*102F	F	2.1	0.50	130
" " ($\mu = 30$)	102D	F	2.1	1.0	130
" " ($\mu = 30$)	102G	F	2.1	1.0	130
" " ($\mu = 16$)	247A	H	2.0	1.6	135
" " ($\mu = 15$)	262B	H	10.0	0.32	140
" " ($\mu = 15$)	347A	H	6.3	0.50	140
" " ($\mu = 10$)	244A	H	2.0	1.6	135
" " ($\mu = 8.9$)	101FA	F	4.15	0.50	130
" " ($\mu = 8.5$)	231D	F	3.1	0.060	90
" " ($\mu = 8.5$)	257A	F	3.1	0.060	90
" " ($\mu = 7.2$)	264C	F	1.5	0.30	100
" " ($\mu = 6.5$)	101F	F	4.15	0.50	130
" " ($\mu = 6.5$)	101J	F	4.15	0.50	130
" " ($\mu = 6.2$)	101D	F	4.5	1.0	130
" " ($\mu = 5.7$)	215A	F	1.0	0.25	60
Power Amp. (0.035 w.)	272A	H	10.0	0.32	100
" " (0.160 w.)	104D	F	4.5	1.0	130
" " (0.87 w.)	205D	F	4.5	1.6	350
" " (0.87 w.)	205E	F	4.5	1.6	350
" " (1.6 w.)	271A	H	5.0	2.0	350
" " (1.9 w.)	275A	F	5.0	1.2	200
" " (6.2 w.)	252A	F	5.0	2.0	450
" " (7.5 w.)	300A & B	F	5.0	1.2	350

Multi-Grid and Miscellaneous

General Description	Code No.	†Type Cathode	Filament		Screen-Grid Volts	Plate Volts
			Volts	Amperes		
Screen-Grid Tetrode						
Voltage Amp. ($gm = 390$)	246A	F	3.3	0.10	45	135
" " ($gm = 750$)	245A	H	2.0	1.6	45	135
" " ($gm = 1380$)	259A	H	2.0	1.6	75	180
" " ($gm = 1380$)	259B	H	2.0	1.6	75	180
Variable-mu						
Voltage Amp. ($gm = 1360$)	283A	H	2.0	1.6	75	180
Coplanar-Grid Tetrode						
Power Amp. (3.3 w.)	281A	F	5.0	1.6	70	180
Pentode						
Variable-mu						
Voltage Amp. ($gm = 1100$)	309A	H	10.0	0.32	75	180
Variable-mu						
Voltage Amp. ($gm = 1200$)	286A	H	2.0	1.6	75	180
" " ($gm = 1800$)	310B	H	10.0	0.32	135	135
" " ($gm = 1800$)	348A	H	6.3	0.50	135	135
" " ($gm = 1850$)	310A	H	10.0	0.32	135	135
" " ($gm = 1850$)	328A	H	7.5	0.425	135	135
" " ($gm = 2500$)	384A	H	6.3	0.15	120	120
" " ($gm = 2500$)	385A	H	6.3	0.15	120	120
Power Amp.						
" " (0.65 w.)	285A	H	2.0	1.6	150	180
" " (2.0 w.)	311A	H	10.0	0.64	135	135
" " (2.0 w.)	329A	H	7.5	0.85	135	135
" " (3.5 w.) a.f.	336A	H	10.0	0.64	250	250
" " (3.5 w.) a.f.	349A	H	6.3	1.0	250	250
" " (9 w.) a.f.	306A	F	2.75	2.0	300	300
" " (9 w.) a.f.	307A	F	5.5	1.0	300	300
Duodiode Triode						
Detector-amplifier ($\mu = 13$)	303A	H	2.0	1.6	—	135
" " ($\mu = 13$)	352A	H	10.0	0.32	—	135

†F—Filamentary.

†H—Indirectly Heated.

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TELEPHONE BROADCASTING

RECTIFIERS

Half-Wave

Max. Instantaneous Anode Current (Amps.)	Code No.	Type	Filament		Maximum
			Volts	Amperes	Inverse Potential (K.V.)
0.015	380A	High vacuum	6.3	0.15	0.500
0.015	381A	High vacuum	6.3	0.15	0.500
.4	378A	High vacuum	5.0	5.0	30.0
1.0	371A	High vacuum	5.0	10.3	25.0
1.0	253A	Mercury vapor	2.5	3.0	3.5
2.5	249B	Mercury vapor	2.5	7.5	7.5
2.5	258B	Mercury vapor	2.5	7.5	7.5
5.0	222A	High vacuum, water cooled	21.5	41.0	25.0
5.0	233B	High vacuum, water cooled	21.5	41.0	50.0
8.0	267B	Mercury vapor	5.0	6.75	7.5
8.0	315A	Mercury vapor	5.0	10.0	12.5
8.0	319A	Mercury vapor	5.0	6.75	7.5
8.0	321A	Mercury vapor	5.0	10.0	12.5
16.0	255B	Mercury vapor	5.0	19.0	20.0
40.0	266B	Mercury vapor	5.0	42.0	20.0
40.0	266C	Mercury vapor	5.0	42.0	20.0

Full-Wave

0.5	315A	High vacuum	6.3	1.0	1.0
0.5	351A	High vacuum	6.3	1.0	1.0
0.8	274A	High vacuum	5.0	2.0	1.5
1.0	301A	Mercury vapor	5.0	3.0	1.8
2.5	314A	Mercury vapor	5.0	5.0	0.3
6.0	263A	Argon filled	2.5	15.0	0.1
10.0	263B	Mercury vapor	2.5	15.0	0.1

Thyratrons

0.060	297A	Argon filled	1.75	0.350	0.250
0.075	256A	Argon filled	2.3	1.7	0.325
0.10	*269A	Argon filled	2.2	0.55	0.275
0.600	338A	Argon filled	10.0	0.50	0.325
2.5	287A	Mercury vapor	2.5	7.0	2.50
6.0	323A	Argon gas and mercury vapor	2.5	7.0	0.50
16	354A	Mercury vapor	2.5	16.0	1.50
16	355A	Argon gas and mercury vapor	2.5	16.0	0.35

Cold Cathode

0.030	313C	Gas filled
0.030	333A	Gas filled
0.030	346A	Gas filled
0.030	353A	Gas filled

CATHODE RAY TUBES

Fluorescent Characteristics	Filament		Screen Diameter	
	Volts	Amperes	325	326
325A and 326A	5.0	0.55	4.5"	7"
325B and 326B	5.0	0.55		
325C and 326C	5.0	0.55		

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