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CLASSIFICATION
Western Electric Vacuum Tubes
— FOR —
Radio Telephone Broadcasting

LIST OF TUBES IN CATALOG

NOTE: Data sheets combining information on more than one tube are filed under the code number shown in parenthesis.

101D	233B	257A	275A	306A	328A	352A
101F (Iss. 2)	236A	258B (249B)	276A	307A	329A (311A)	353A
101FA	240B	259A	279A	308B	331A	354A (287A)
101J	241B	259B	281A	309A	332A (322A)	355A (287A)
102D	242C	262B	282A	310A	333A	356A
102F (Iss. 2)	244A	263A	283A	310B	336A	357A
102G	245A	263B	284D	311A	338A	363A
104D	246A	264C	285A	312A	340A	364A
205D	247A	266B (249B, Iss. 2)	286A	313C	342A	368A
205E	249B (Iss. 2)	266C (249B, Iss. 2)	287A	314A	343A	368AS (368A)
212E	251A	267B (249B, Iss. 2)	295A	315A (249B, Iss. 2)	343AA	371A
215A	252A	268A	297A	316A	345A	378A (371A)
220C (Iss. 2)	253A (249B, Iss. 2)	269A	298A&B	319A (249B, Iss. 2)	346A	380A
222A	254A	270A	300A&B	321A (249B, Iss. 2)	347A (262B)	381A (380A)
228A	254B	271A	301A	322A	348A (310B)	384A
231D	255B (249B, Iss. 2)	272A	303A	323A (287A)	349A (336A)	385A (384A)
232B	256A	274A	305A	~~325-326 (Iss. 2)~~	351A (345A)	388A (368A)

Class A—Audio Frequency Amplifier or Modulator

Typical Output Power Watts	Code No.	Filament Volts	Filament Amps.	Plate Volts
0.87	205D	4.5	1.6	350
0.87	205E	4.5	1.6	350
1.6	271A	5.0	2.0	350
4	268A	5.0	3.25	750
4.5	336A	10.0	0.64	250
4.5	349A	6.3	1.0	250
6.2	252A	5.0	2.0	450
7.5	300A	5.0	1.2	350
9	306A	2.75	2.0	300
9	307A	5.5	1.0	300
20	276A	10.0	3.0	1250
22	242C	10.0	3.25	1250
40	284D	10.0	3.25	1250
50	212E	14.0	6.0	1500
50	241B	14.0	6.0	1500
50	308B	14.0	6.0	1500
90	270A	10.0	9.75	2500
100	363A	10.0	10.0	2000
130	251A	10.0	16.0	2500
155	279A	10.0	21.0	2500
285	228A	21.5	41.0	6000
650	343A	21.5	57.5	12500
650	343AA	21.5	57.5	12500
*760	*220C	21.5	41.0	12500

Class B—Audio Frequency Amplifier or Modulator—2-Tube Circuit

Typical Output Power Watts	Code No.	Filament Volts	Filament Amps.	Plate Volts
50	268A	5.0	3.25	750
140	284D	10.0	3.25	1250
175	276A	10.0	3.0	1250
200	242C	10.0	3.25	1250
200	356A	5.0	5.0	1500
200	364A	5.0	5.0	1500
250	295A	10.0	3.25	1250
370	331A	10.0	3.25	1500
575	308B	14.0	6.0	1750
650	212E	14.0	6.0	2000
650	241B	14.0	6.0	2000
1000	270A	10.0	9.75	2500
1625	357A	10.0	10.0	4000
1650	363A	10.0	10.0	4000
2000	251A	10.0	16.0	3000
2200	279A	10.0	21.0	2500
3750	228A	21.5	41.0	5000
*14000	*220C	21.5	41.0	10000
17500	240B	21.5	41.0	12000
18000	343A	21.5	57.5	12500
18000	343AA	21.5	57.5	12500
25000	236A	21.5	41.0	17500
30000	340A	20.0	72.0	15000
30000	342A	20.0	67.0	15000
140000	298A	27.0	225.0	15000

Grid Bias Modulator

Peak Power Output	Code No.	Filament Volts	Filament Amps.	Plate Volts
200	212E	14.0	6.0	3000
200	241B	14.0	6.0	3000
250	270A	10.0	9.75	3000

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

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Class B—R-F Amplifier

Typical Output Power Watts	Code No.	Filament Volts	Filament Amps.	Plate Volts
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 Volts	Filament Amps.	Plate Volts
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	254A	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—Supressor-Grid Modulated—Carrier Conditions

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

SMALL TUBES

Triodes

General Description		Code No.	†Type Cathode	Filament Volts	Filament Amperes	Plate Volts
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 Volts	Filament Amperes	Screen-Grid Volts	Plate Volts
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.
*Revised ratings in this classification sheet supercede those in data sheet.

RECTIFIERS

Half-Wave

Max. Instantaneous Anode Current (Amps.)	Code No.	Type	Filament Volts	Filament Amperes	Maximum 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	345A	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 Volts	Filament Amperes	Screen Diameter 325	Screen Diameter 326
325A and 326A	Green, medium persistence	5.0	0.55	4.5″	7″
325B and 326B	Blue-green, long persistence	5.0	0.55		
325C and 326C	Blue, highly actinic	5.0	0.55		

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