

# **TUBE DATA CHARTS**

**FOR**

## **Electron Tube Analyzer**

### **MODEL 686**

**WESTON ELECTRICAL INSTRUMENT CORPORATION**

**NEWARK 5, NEW JERSEY**

TUBE DATA CHARTS  
*for*  
ELECTRON TUBE ANALYZER  
MODEL 686

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# NOMENCLATURE OF TUBE DATA CHARTS

## 1. INTRODUCTION

The data included in the tube data charts is a general compilation of data from various manufacturers' tube manuals and from RTMA and MIL-E-1B standards.

The data is applicable to all types of Model 686. For operating instructions refer to "Instructions for Weston Model 686 True Mutual Conductance Vacuum Tube Analyzer", Form 2430.

## 2. KEY TO TUBE DATA CHARTS

*Type*—RTMA or Manufacturers type number.

*Class*—According to structure or function of tube.

### Note

1. Gas Diodes refers to Voltage Regulator Tubes.
2. Gas Triodes and Gas Tetrodes refers to Thyatron Tubes.

*Base*—RTMA or Weston base number which refers to basing diagrams of same number at the bottom of the corresponding page.

*Heater Volts*—The first number given is the nominal heater voltage. The two numbers in parentheses indicate pin connection numbers for the heater.

*Cathode Ohms*—The setting of the self bias resistance is the first number given. The second number in parentheses gives the pin connection number. No numbers are given when the tube is of a filamentary type, in which case the self bias resistance should be set at zero. When a self bias resistance is called for, be sure to set the control grid voltage to zero.

*Control Grid*—The first number given is the setting of the control grid bias. The second number given in parentheses indicates pin connection number for the control grid.

*Plate*—The first number given is the setting of plate voltage.

The second number given in parentheses indicates pin

connection number for the plate.

The third number gives the nominal reading of plate current in milliamperes.

*Screen*—The first number given is the setting of screen voltage.

The second number given in parentheses indicates pin connection for the screen.

The third number given the nominal reading of screen current in milliamperes.

*Suppressor*—The first number given is the setting of suppressor voltage. The second number given in parentheses indicates pin connection number for the suppressor.

If no numbers are given connect the suppressor to the cathode.

*Amp Factor*—Gives setting of "AMPLIFICATION FACTOR" switch. When set to RED, read red scale on Gm meter. When set to a value from 3.5 to 15, read the black scale, using the 3000 and 6000 Gm ranges only.

*Measurement*—"Gm" is one of the most important indications of how an amplifier tube will function. "Emission" test will indicate proper operation of diodes.

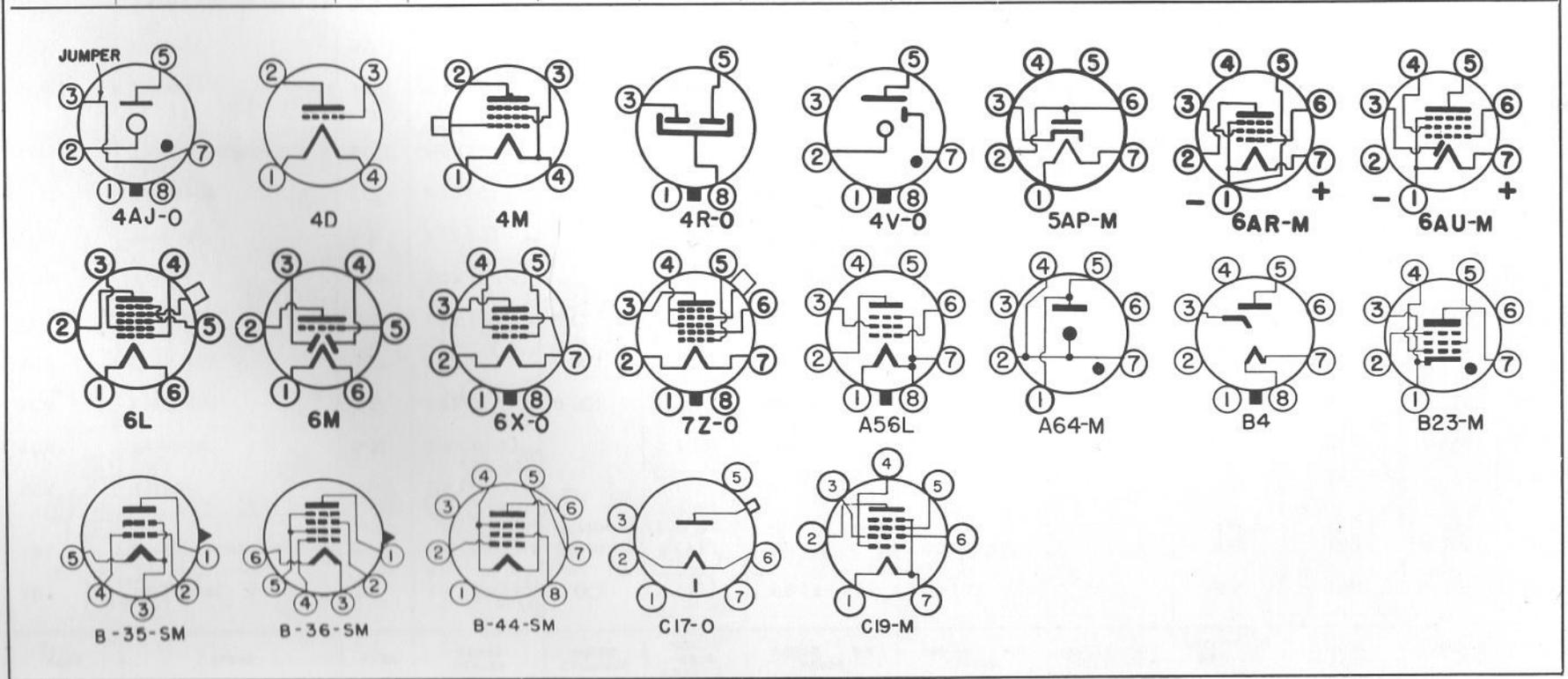
"Regulation" test will indicate proper operation of gas regulator tubes.

"Shadow Angle" refers to operation of electron ray tubes.

"Voltage Drop" refers to the plate voltage of thyatrons, gas triodes and gas tetrodes when conducting rated plate current. Note that for these tubes, the voltage listed in the plate column is the voltage before firing, and that the bias voltage listed in the control grid column is a value sufficient to keep the tube from firing.

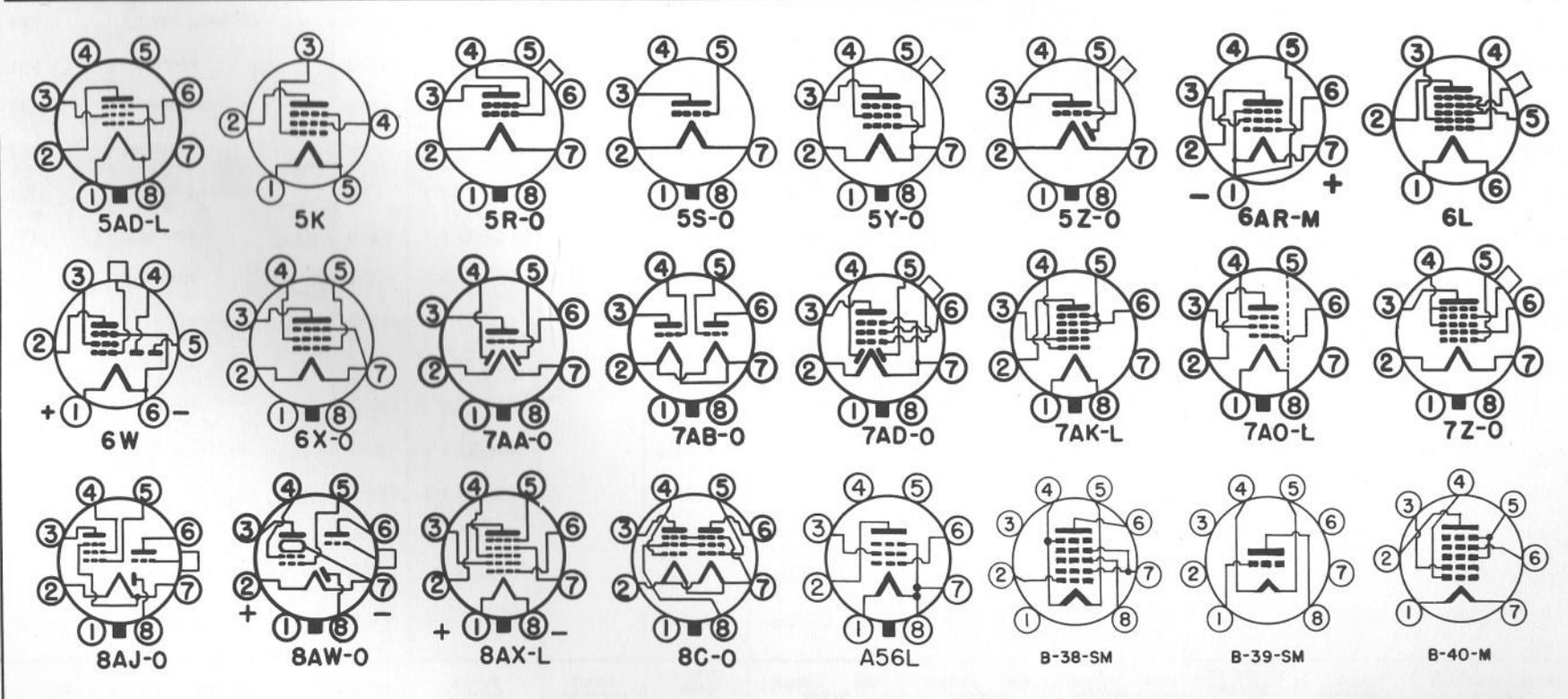
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
0A2	Gas Diode	A64		0 (7)	Anode Starting Volts 155 (5). (See Instructions.) Working Volts 150; Working Current 5 to 30 Ma.						Red	Regulation	2 Volts	4 Volts	
0A3	Gas Diode	4-AJ		0 (2)	Anode Starting Volts 100 (5). (See Instructions.) Working Volts 75; Working Current 5 to 40 Ma.						Red	Regulation	5 Volts	10 Volts	
0A4G	Gas Triode	4-V		0 (2)	Starting Anode (7) to Plate (5) Using Resistor Patch Cord; Firing Voltage 100; Working Volts 75 ± 15; Working Current 10 to 25 Ma. (See Instructions.)						Red	Regulation	2 Volts	5 Volts	
0A5G	Gas Relay	B23		0 (1)	Grid 1 & 2 (4+5) to Plate (7) Using Resistor Patch Cord; Grid 3 (2) to Negative 100 Volts; Starter Anode Ionizing Volts 140 ± 20; Grid 3 Current 200 to 350 MuA; Working Anode Ionizing Volts 200 ± 20; Working Anode Current 1 Ma.						Red	Ionizing Potentials	Not Established		
0B2	Gas Diode	A64		0 (7)	Anode Starting Volts 115 (5). (See Instructions.) Working Volts 105; Working Current 5 to 30 Ma.						Red	Regulation	1 Volts	2 Volts	
0B3	Gas Diode	4-AJ		0 (2)	Anode Starting Volts 110 (5). (See Instructions.) Working Volts 90; Working Current 5 to 40 Ma.						Red	Regulation	8 Volts	12 Volts	
0C3	Gas Diode	4-AJ		0 (2)	Anode Starting Volts 115 (5). (See Instructions.) Working Volts 105; Working Current 5 to 40 Ma.						Red	Regulation	2 Volts	5 Volts	
0D3	Gas Diode	4-AJ		0 (2)	Anode Starting Volts 160 (5). (See Instructions.) Working Volts 150; Working Current 5 to 40 Ma.						Red	Regulation	5 Volts	10 Volts	
0Y4	Gas Rectifier	B4		0 (7+3)	Anode Starting Volts 100 (5) Voltage Drop 90 Volts ± 15; Working Current 40 to 75 Ma.						Red	Emission	75 Ma	50 Ma	
0Z4	Gas Rectifier	4-R		0 (8)	Anode Starting Volts 170 (3 & 5). Voltage Drop 150 ± 20 Volts; Working Current 30 to 85 Ma.						Red	Emission	85 Ma	70 Ma	
00A	Triode	4-D	5 (1+4)		1 (3)	45 (2)	1.5				Red	Gm	550	350	
01A	Triode	4-D	5 (1+4)		9 (3)	135 (2)	3				Red	Gm	800	500	
1A3	Diode	5-AP	1.4 (1+7)	0 (3)		10 (6)					Red	Emission	0.5 Ma	0.2 Ma	
1A4	Pentode	4-M	2 (1+4)		3 (C)	180 (2)	2.3	67 (3)	0.8		Red	Gm	750	450	
1A5	Pentode	6-X	1.4 (2+7)		4.5 (5)	90 (3)	4	90 (4)	0.8		Red	Gm	850	500	
1A6	Converter	6-L	2 (1+6)		3 (C+4)	180 (2+3)	2.4	65 (5)	2.2		3.5	Gm	1,000	750	
1A7	Converter	7-Z	1.4 (2+7)	0 (C)	3 (4)	180 (3)		65 (5)		180 (2)	Red	Osc Gm	180	100	
				0 (C)	1 (5)	90 (3+6)	2.5	45 (4)		3.5	Gm	750	500		
				0 (C)	0 (5)	90 (6)		45 (4)		90 (3)	Red	Osc Gm	375	250	

1AB5	Pentode	A56	1.25 (1+7)	1.5 (6)	150 (2) 6.8	150 (3) 2	Red	Gm	1,350	900
1AC5	Pentode	B44	1.25 (4+5)	4.5 (2)	65 (7)	65 (8) 0.8	Red	Gm	750	450
1AD4	Pentode	B35	1.25 (3+5)	0.5 (4)	45 (1) 3	45 (2) 0.8	Red	Gm	2,000	1,200
1AD5	Pentode	B44	1.25 (4+5)	0 (2)	65 (7) 1.85	65 (8) 0.8	Red	Gm	750	500
1AE4	Pentode	6-AR	1.25 (1+7)	0 (6)	90 (2) 3.5	90 (3) 1.2	Red	Gm	1,500	1,000
1AB6	Converter	C19	1.4 (1+7)	0.5 (4+5)	75 (2) 1.25	50 (6+3) 2.8	3.5	Gm	550	350
1AE5	Converter	B36	1.25 (3+6)	0 (4+2)	45 (1+5) 2.2		7	Gm	700	450
1AF4	Pentode	6-AR	1.4 (1+7)	0 (6)	90 (2) 1.8	90 (3) 0.55	Red	Gm	1,000	700
1AF5	Diode Pentode	6-AU	1.4 (1+7)	0 (6)	90 (5) 1.1	90 (4) 0.4	Red	Gm	600	400
1B3	Rectifier	C17	1.25 (2+7)		80 (C)		Red	Emission	2 Ma	1.3 Ma
1B4	Pentode	4-M	2 (1+4)	3 (C)	180 (2) 1.7	65 (3) 0.5	Red	Gm	650	400
1B5/25S	Diode Triode	6-M	2 (1+6)	3 (5)	135 (2) 0.8		Red	Gm	575	350



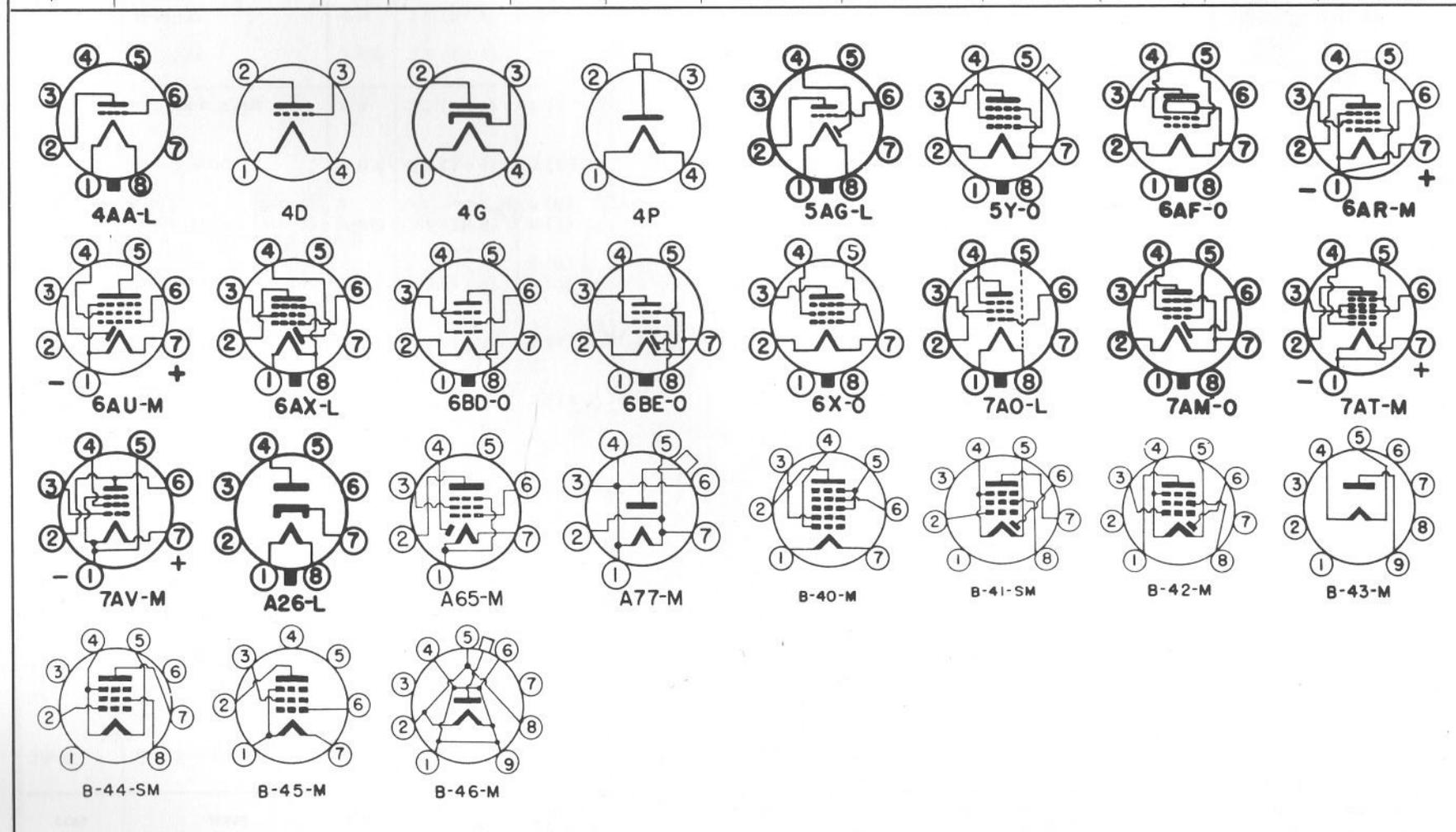
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASURE- MENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
1B7	Converter	7-Z	1.4 (2+7)	0 (C)	1 (5)	90 (3+6)	5	50 (4)				3.5	Gm	1,300	900
1B8	Diode Triode Pentode	8-AW	1.4 (2+7)	(Pent.) (Triode)	6 (5) 0 (C)	90 (3) 3 90 (6) 0.15		90 (4) 1.4				Red Red	Gm Gm	1,100 275	800 150
1C3	Triode	A56	1.4 (1+7)		3 (4)	90 (2)	1.4					15	Gm	750	450
1C5	Pentode	6-X	1.5 (2+7)		7.5 (5)	90 (3)	7.5	90 (4)	1.6			Red	Gm	1,550	1,000
1C6	Converter	6-L	2 (1+6)	0 (C)	1 (4)	90 (2+3)	7.2	50 (5)				3.5	Gm	1,150	750
1C7	Converter	7-Z	2 (2+7)	0 (C)	1 (5)	90 (3+6)	7.2	50 (4)				3.5	Gm	1,150	750
1C8	Converter	B38	1.25 (4+5)	0 (2+8)		30 (6+7)	1.85					5	Gm	750	450
1D3	Triode	B39	1.25 (4+5)		5 (1)	90 (8)	12.5					7	Gm	3,400	2,000
1D5	Pentode	5-R	2 (2+7)		3 (C)	180 (3)	2.2	65 (4)	2.4			Red	Gm	650	400
1D7	Converter	7-Z	2 (2+7)	0 (C)	1 (5)	90 (3+6)	7	50 (4)				Red	Gm	1,000	650
1D8	Triode Pentode	8-AJ	1.4 (2+7)	(Triode) (Pent.)	0 (C) 9 (5)	90 (6) 1.1 90 (3) 5		90 (4) 1				Red Red	Gm Gm	550 900	350 600
1E4	Triode	5-S	1.4 (2+7)		0 (5)	90 (3)	4.5					15	Gm	1,300	900
1E5	Pentode	5Y	2 (2+7)		3 (C)	180 (3)	1.7	65 (4)	0.6			Red	Gm	650	400
1E7	Twin Pentode (Sec. 1) (Sec. 2)	8-C	2 (2+7)		4.5 (4) 4.5 (5)	135 (3) 7.5 135 (6) 7.5		135 (8) 2.2 135 (8) 2.2				Red Red	Gm Gm	1,400 1,400	1,000 1,000
1E8	Converter	B38	1.25 (4+5)		0 (2+8)	30(6+7)	1.85					7	Gm	750	500
1F4	Pentode	5-K	2 (1+5)		3 (3)	90 (2)	4	90 (4)	1.1			Red	Gm	1,700	1,000
1F5	Pentode	6-X	2 (2+7)		3 (5)	90 (3)	4	90 (4)	1.1			Red	Gm	1,700	1,000
1F6	Pentode	6-W	2 (1+6)		1.5 (C)	180 (2)	2.2	65 (3)	0.7			Red	Gm	650	400
1F7	Diode Pentode	7-AD	2 (2+7)		1.5 (C)	180 (3)	2.2	65 (6)	0.7			Red	Gm	750	400
1G4	Triode	5-S	1.4 (2+7)		6 (5)	90 (3)	2.3					10	Gm	800	500
1G5	Pentode	6-X	1.4 (2+7)		6 (5)	90 (3)	8.5	90 (4)	2.5			Red	Gm	1,500	1,000
1G6	Twin Triode (Sec. 1) (Sec. 2)	7-AB	1.4 (2+7)		0 (4) 0 (5)	90 (3) 1 90 (6) 1						Red Red	Gm Gm	825 825	500 500
1H4	Triode	5-S	2 (2+7)		13 (5)	180 (3)	3.1					10	Gm	900	600
1H5	Diode Triode	5-Z	1.4 (2+7)		0 (C)	90 (3)	0.15					Red	Gm	275	150

1H6	Diode Triode	7-AA	2 (2+7)		3 (6)	135 (3) 0.8		Red	Gm	575	300	
1J5	Pentode	6-X	2 (2+7)		16 (5)	135 (3) 7	135 (4) 2	Red	Gm	950	600	
1J6	Twin Triode (Sec. 1) (Sec. 2)	7-AB	2 (2+7)		1 (4) 1 (5)	135 (3) 5 135 (6) 5		Red Red	Gm Gm	1,200 1,200	900 900	
1L4	Pentode	6-AR	1.4 (1+7)		0 (6)	90 (2) 5	90 (3) 2	Red	Gm	1,000	700	
1L6	Converter	B40	1.4 (1+7)	0 (6)	1 (4)	90 (3+2) 3	45 (5) 1	3.5	Gm	600	350	
1LA4	Pentode	5-AD	1.4 (1+8)		4.5 (6)	90 (2) 4	90 (3) 0.8	Red	Gm	850	500	
1LA6	Converter	7-AK	1.4 (1+8)	0 (6)	1 (4)	90 (3+2) 3.6	45 (5) 1	3.5	Gm	600	350	
1LB4	Pentode	5-AD	1.4 (1+8)		9 (6)	90 (2) 5	90 (3) 1	Red	Gm	900	600	
1LB6	Converter	8-AX	1.4 (1+8)	0 (7)	1 (6)	90 (3+2) 5	45 (4) 1	Red	Gm	650	350	
1LC5	Pentode	7-AO	1.4 (1+8)		0 (6)	90 (2) 1.2	45 (3) 0.3	0 (4)	Red	Gm	775	450
1LC6	Converter	7-AK	1.4 (1+8)	0 (6)	1 (4)	90 (3+2) 5	45 (5) 1.5	Red	Gm	550	300	



TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE VOLTS	MA	SCREEN VOLTS	MA	SUPPRESSOR VOLTS	MA	AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
														NOMINAL	REJECT
1LD5	Diode Pentode	6-AX	1.4 (1+8)		0 (6)	90 (2)	0.6	45 (3)	0.1			Red	Gm	600	350
1LE3	Triode	4-AA	1.4 (1+8)		0 (6)	90 (2)	4.5					15	Gm	1,300	900
1LF3	Triode	4-AA	1.4 (1+8)		0 (6)	90 (2)	4.5					15	Gm	1,300	900
1LG5	Pentode	7-AO	1.4 (1+8)		0 (6)	90 (2)	1.7	45 (3)	0.4	0 (4)		Red	Gm	800	500
1LH4	Diode Triode	5-AG	1.4 (1+8)		0 (6)	90 (2)	0.2					Red	Gm	275	150
1LN5	Pentode	7-AO	1.4 (1+8)		0 (6)	90 (2)	1.6	90 (3)	0.35	0 (4)		Red	Gm	800	500
1N5	Pentode	5-Y	1.4 (2+7)		0 (C)	90 (3)	1.2	90 (4)	0.3			Red	Gm	750	400
1N6	Diode Pentode	7-AM	1.4 (2+7)		4.5 (5)	90 (3)	3.4	90 (4)	0.7			Red	Gm	800	500
1P5	Pentode	5-Y	1.4 (2+7)		0 (C)	90 (3)	2.3	90 (4)	0.7			Red	Gm	750	400
1Q5	Tetrode	6-AF	1.4 (2+7)		4.5 (5)	90 (3)	9.5	90 (4)	1.3			Red	Gm	2,200	1,400
1Q6	Diode Pentode	B41	1.25 (4+5)		0 (2)	65 (7)	1.6	65 (8)	0.4			Red	Gm	600	350
1R4	Diode	A26	1.4 (1+8)		0 (7)	10 (4)						Red	Emission	5 Ma	3 Ma
1R5	Converter	7-AT	1.4 (1+7)		0 (4+6)	65 (3+2)	8.5					7	Gm	1,400	1,000
1S4	Pentode	7-AV	1.4 (1+7)		7 (3)	90 (2)	7.4	67 (4)	1.4			Red	Gm	1,550	1,000
1S5	Diode Pentode	6-AU	1.4 (1+7)		0 (6)	65 (5)	1.6	65 (4)	0.4			Red	Gm	600	350
1S6	Diode Pentode	B42	1.25 (4+5)		0 (3)	65 (1)	1.6	65 (8)	0.4			Red	Gm	600	350
1SA6	Pentode	6-BD	1.4 (2+7)		0 (4)	90 (8)	2.5	65 (6)	0.7			Red	Gm	1,000	600
1SB6	Diode Pentode	6-BE	1.4 (2+7)		0 (8)	90 (3)	1.5	65 (4)	0.4			Red	Gm	650	400
1T4	Pentode	6-AR	1.4 (1+7)		0 (6)	90 (2)	3.5	65 (3)	1.4			Red	Gm	900	500
1T5	Pentode	6-X	1.4 (2+7)		6 (5)	90 (3)	6.5	90 (4)	0.8			Red	Gm	1,150	700
1T6	Diode Pentode	B42	1.25 (4+5)		0 (3)	65 (1)	1.6	65 (8)	0.4			Red	Gm	600	350
1U4	Pentode	6-AR	1.4 (1+7)		0 (6)	90 (2)	1.6	90 (3)	0.5			Red	Gm	900	600
1U5	Diode Pentode	A65	1.4 (1+7)		0 (6)	65 (2)	1.6	65 (3)	0.6			Red	Gm	600	350
1U6	Converter	B40	1.4 (1+7)		0 (4+6)	90 (3+2)	3	45 (5)	0.9			Red	Gm	600	350
1-V	Rectifier	4-G	6.3 (1+4)		0 (3)	12 (2)	45					Red	Emission	45 Ma	30 Ma
1V2	Rectifier	B43	0.625 (4+5)			25 (9)						Red	Emission	0.5 Ma	0.25 Ma

1V5	Pentode	B44	1.25 (4+5)	4.5 (2)	65 (7) 2	65 (8) 0.5	Red	Gm	750	400
1W4	Pentode	B45	1.4 (1+7)	9 (6)	90 (2) 5	90 (3) 1	Red	Gm	900	550
1W5	Pentode	B44	1.25 (4+5)	0 (2)	65 (7) 1.8	65 (8) 0.8	Red	Gm	700	400
1X2/A	Rectifier	B46	1.25 (2+9)		40 (C)		Red	Emission	2 Ma	1 Ma
1Y2	Rectifier	4-P	1.5 (1+4)		25 (C)		Red	Emission	2 Ma	1 Ma
1Z2	Rectifier	A77	1.5 (1+7)		12 (C)		Red	Emission	2 Ma	1 Ma
2A3	Triode	4-D	2.5 (1+4)	45 (3)	250 (2) 60		5	Gm	5,000	3,500



A — Acorn

L — Loctal

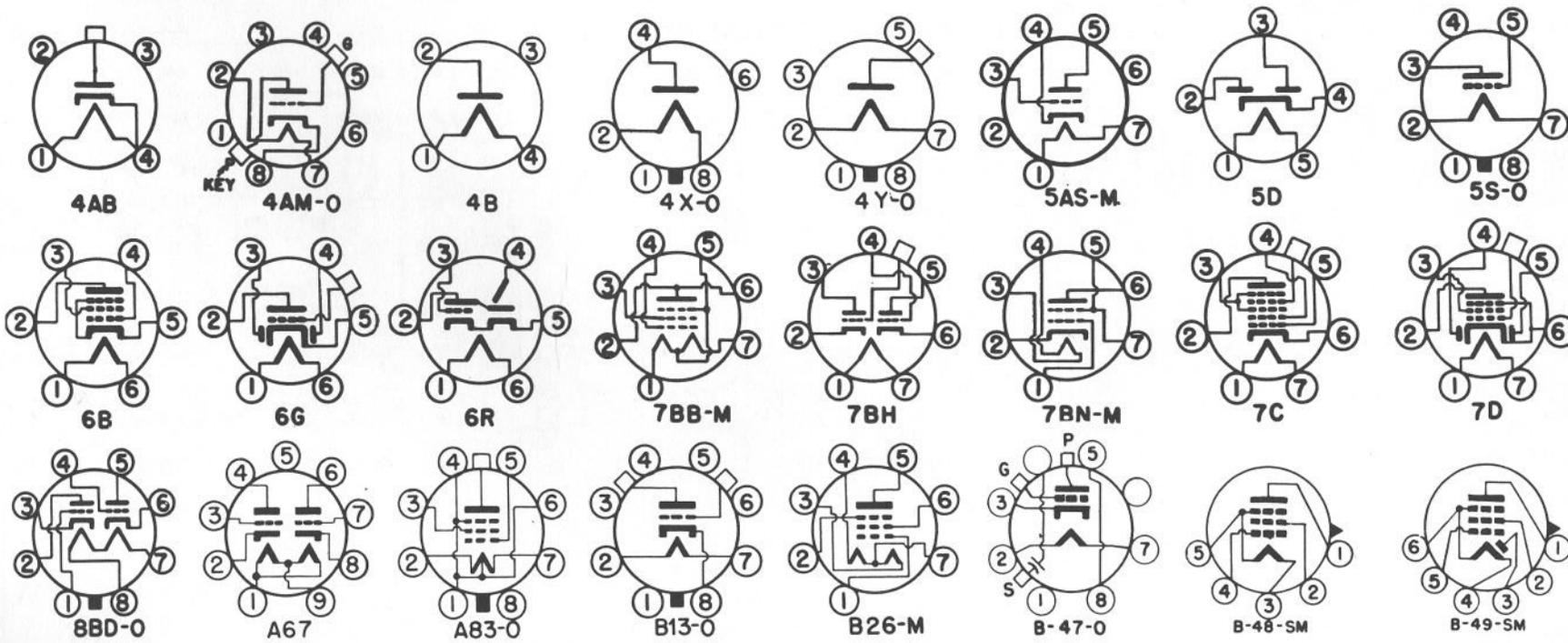
M — Miniature

O — Octal

SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING		
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT	
2A4G	Gas Triode	5-S	2.5 (2+7)		(5)	200 (3) 100 Ma (See Instructions.)						Red	Voltage Drop	20 V	24 V	
2A5	Pentode	6-B	2.5 (1+6)	(5)	20 (4)	285 (2) 38		285 (3) 7				Red	Gm	2,500	1,500	
2A6	Diode Triode	6-G	2.5 (1+6)	(5)	2 (C)	250 (2) 0.9						Red	Gm	1,100	750	
2A7	Converter	7-C	2.5 (1+7)	0 (6+C)	2 (5)	250 (4+2) 6.6		50 (3) 1.6				3.5	Gm	2,300	1,600	
2B7	Diode Pentode	7-D	2.5 (1+7)	0 (6)	3 (C)	250 (2) 9		125 (3) 2.3				Red	Gm	1,100	750	
2C21	Twin Triode (Sec. 1) (Sec. 2)	7-BH	6.3 (1+7)	0 (6)	16 (4)	250 (5) 8.5						10	Gm	1,400	900	
				0 (2)	16 (C)	250 (3) 8.5				10	Gm	1,400	900			
2C22	Triode	4-AM	6.3 (2+7)	0 (8)	10 (C)	300 (Shell) 11						Red	Gm	3,000	1,800	
2C26	UHF Triode	B13	6.3 (2+7)	0 (8)	15 (C)	300 (C) 15						15	Gm	2,500	1,500	
2C40	Triode	B47	6.3 (2+7)	0 (5+8)	10 (Ring)	250 (C) 25 (Use Adapter 446)						Red	Gm	5,500	3,500	
2C4	Gas Triode	5-AS	2.5 (1+7)	0 (4)	5 (3)	50 (C) 5 (See Instructions)						Red	Voltage Drop	16 V	18 V	
2C51	Twin Triode (Sec. 1) (Sec. 2)	A67	6.3 (1+9)	0 (2)	2 (3)	150 (4) 8						Red	Gm	5,500	3,500	
				0 (8)	2 (7)	150 (6) 8				Red	Gm	5,500	3,500			
2C52	Twin Triode (Sec. 1) (Sec. 2)	8-BD	12.6 (7+8)	0 (3)	2 (2)	250 (1) 1.3						Red	Gm	1,900	1,000	
				0 (6)	2 (4)	250 (5) 1.3				Red	Gm	1,900	1,000			
2D21	Gas Tetrode	7-BN	6.3 (3+4)	0 (2+5)	(1)	250 (6) 100 Ma Max. (See Instructions.)						Red	Voltage Drop	8 V	10 V	
2E35	Indicator Tube	6-R	2.5 (1+6)	0 (5)		70 (2) Use Resistor Patch Cord. Target (4) to Screen 125 Volts										
						0 (3)								Shadow Angle	90 Deg	
						6 (3)							Shadow Angle	0 Deg		
2E24	Pentode	A83	6.3 (2+7)		16 (5)	160 (C) 15		160 (3)				Red	Gm	3,200	2,200	
2E26	Pentode	B13	6.3 (2+7)	0 (1)	20 (6)	250 (C) 30		150 (3)				Red	Gm	3,500	2,500	
2E30	Pentode	B26	6.3 (3+4)		20 (1)	250 (5) 40		250 (6) 3.3				Red	Gm	3,700	2,000	
2E31	Pentode	B48	1.25 (3+5)		0 (4)	45 (1) 0.45		25 (2) 0.22				Red	Gm	500	300	
2E32	Pentode	B48	1.25 (3+5)		0 (4)	45 (1) 0.45		25 (2) 0.22				Red	Gm	500	300	
2E35	Pentode	B48	1.25 (3+5)		0 (4)	45 (1) 0.45		45 (2) 0.1				Red	Gm	500	300	

2E36	Pentode	B48	1.25 (3+5)	0 (4)	45 (1) 0.45	45 (2) 0.1	Red	Gm	500	250
2E41	Pentode	B49	1.25 (4+6)	0 (5)	25 (1) 0.3	25 (2) 0.1	Red	Gm	375	200
2E42	Pentode	B49	1.25 (4+6)	0 (5)	25 (1) 0.4	25 (2) 0.15	Red	Gm	375	200
2S/4S	Twin Diode	5-D	2.5 (1+5)	0 (4)	50 (2+3)		Red	Emission	80 Ma	50 Ma
2V3	Rectifier	4-Y	2.5 (2+7)		35 (C)		Red	Emission	3 Ma	2 Ma
2W3	Rectifier	4-X	2.5 (2+8)		12 (4)		Red	Emission	50 Ma	30 Ma
2X2-A	Rectifier	4-AB	2.5 (1+4)		65 (C)		Red	Emission	8 Ma	5 Ma
2Z2	Rectifier	4-B	2.5 (1+4)		12 (2)		Red	Emission	50 Ma	30 Ma
3A4	Pentode	7-BB	2.8 (1+7)	8.5 (4)	150 (6) 13	90 (3) 2.2	Red	Gm	1,900	1,000



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A — Acorn

L — Loctal

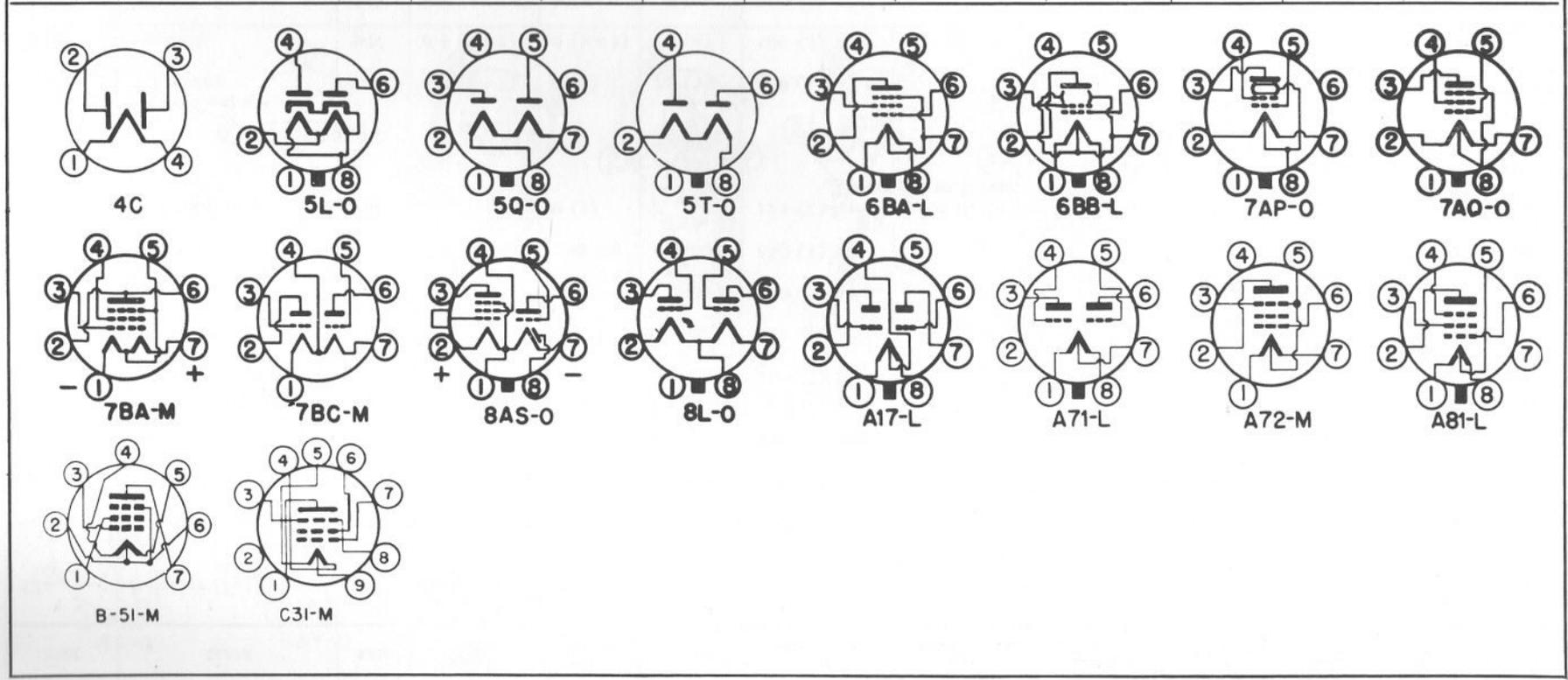
M — Miniature

O — Octal

SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASURE- MENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
3A5	Twin Triode (Sec. 1) (Sec. 2)	7-BC	2.8 (1+7)			2.5 (3)	90 (2) 3.7					Red	Gm	1,800	1,000
						2.5 (5)	90 (6) 3.7					Red	Gm	1,800	1,000
3A8	Triode Pentode (Triode) (Pentode)	8AS	2.8 (2+7)			0 (5)	90 (6) 0.2					Red	Gm	275	150
						0 (C)	90 (3) 1.5	90 (4) 0.5			Red	Gm	750	500	
3B4	Pentode	B51	2.5 (2+6)			18 (3)	90 (7) 15	90 (1) 4.8				Red	Gm	1,700	1,000
3B5	Pentode	7-AQ	2.8 (2+7)			7 (5)	65 (3) 8	65 (4)				Red	Gm	1,600	1,000
3B7	Twin Triode (Sec. 1) (Sec. 2)	A17	1.4 (1+8)			0 (3)	135 (2) 18					Red	Gm	1,900	1,000
						0 (6)	135 (7) 18			Red	Gm	1,900	1,000		
3C5	Pentode	7-AQ	2.8 (2+7)			9 (5)	90 (3) 6	90 (4) 1.6				Red	Gm	1,500	900
3C6	Twin Triode (Sec. 1) (Sec. 2)	A71	2.8 (1+8)			0 (4)	90 (3) 4.5					15	Gm	1,300	800
						0 (5)	90 (6) 4.5			15	Gm	1,300	800		
3D6	Pentode	6-BA	1.4 (1+8)			4.5 (6)	150 (2) 6	90 (3) 1				Red	Gm	2,400	1,200
3E5	Pentode	A72	2.8 (1+7)			7 (6)	90 (2) 8	90 (3) 1.6				Red	Gm	1,500	900
3E6	Pentode	A81	2.8 (1+8)			0 (6)	90 (2) 3	90 (3) 1.5	0 (4)			Red	Gm	1,700	1,000
3LE4	Pentode	6-BA	2.8 (1+8)			9 (6)	90 (2) 3	90 (3) 1.2	0 (4)			Red	Gm	1,700	1,000
3LF4	Pentode	6-BB	2.8 (1+8)			4.5 (6)	90 (2) 8	90 (3) 1				Red	Gm	2,000	1,200
3Q4	Pentode	7-BA	2.8 (1+7)			4.5 (3)	90 (2) 9.5	90 (4) 2				Red	Gm	2,100	1,400
3Q5	Pentode	7-AP	2.8 (2+7)			4.5 (5)	90 (3) 8	90 (4) 1				Red	Gm	2,000	1,200
3S4	Pentode	7-BA	2.8 (1+7)			7 (3)	90 (2) 6	65 (4) 1				Red	Gm	1,400	850
3V4	Pentode	A72	2.8 (1+7)			4.5 (6)	90 (2) 10	90 (3) 1.7				Red	Gm	2,000	1,200
4A6	Twin Triode (Sec. 1) (Sec. 2)	8-L	4 (2+7)			1.5 (4)	90 (3) 1.2					Red	Gm	900	600
						1.5 (5)	90 (6) 1.2			Red	Gm	900	600		
5A6	Pentode	C31	5 (4+5)			10 (7)	150 (1) 30	150 (6)	0 (3)			Red	Gm	1,500	800
5AX4	Rectifier (P-1) (P-2)	5-T	5 (2+8)				(4) (6)					Red	Emission		
5AZ4	Rectifier (P-1) (P-2)	5-T	5 (2+8)				47.5 (4) (6)					Red	Emission	100 Ma	80 Ma
5R4	Rectifier (P-1)	5-T	5 (2+8)				35 (4) (6)					Red	Emission	100 Ma	80 Ma

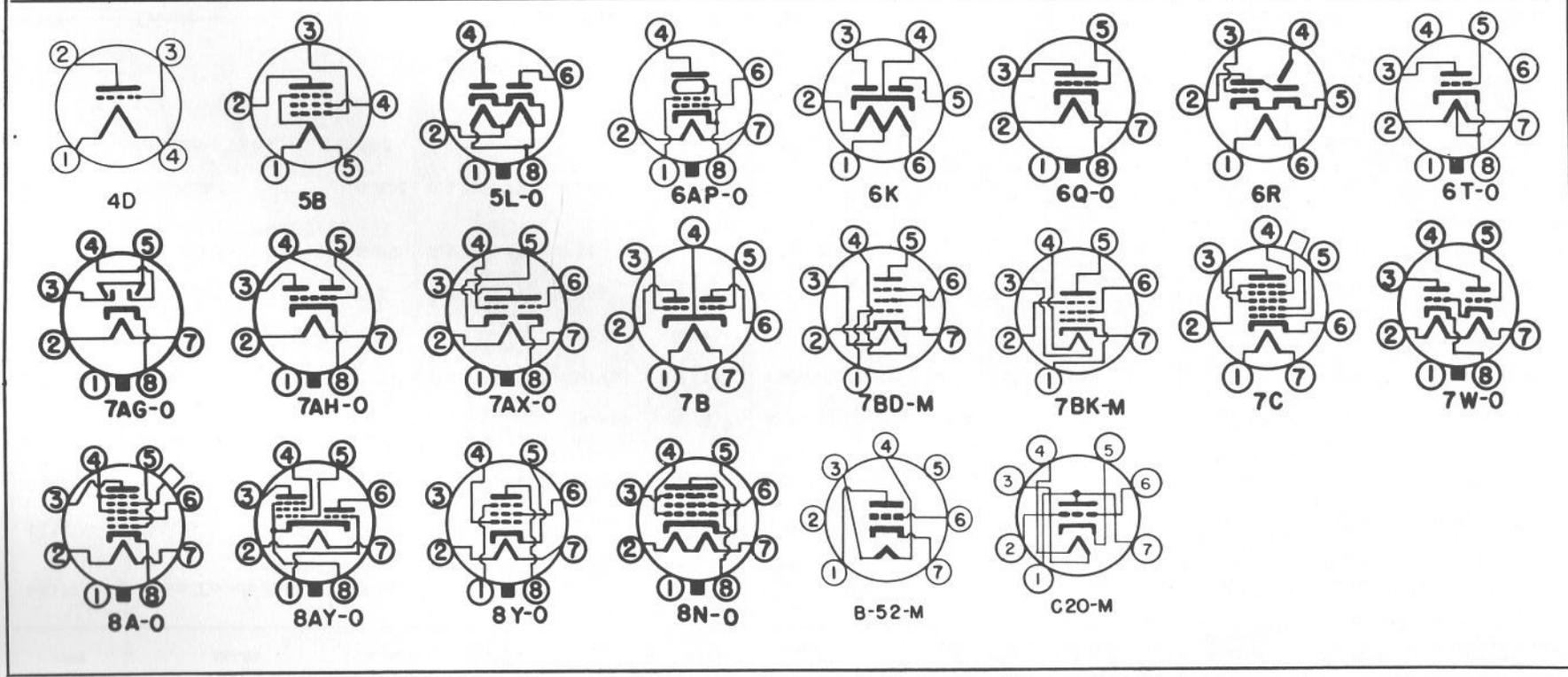
5T4	Rectifier (P-1) (P-2)	5-T	5 (2+8)	12.5 (4) 12.5 (6)	Red	Emission	100	80
5U4	Rectifier (P-1) (P-2)	5-T	5 (2+8)	33 (4) 33 (6)	Red	Emission	100	80
5V4	Rectifier (P-1) (P-2)	5-L	5 (2+8)	15 (4) 15 (6)	Red	Emission	100	80
5W4	Rectifier (P-1) (P-2)	5-T	5 (2+8)	50 (4) 50 (6)	Red	Emission	100	80
5X4	Rectifier (P-1) (P-2)	5-Q	5 (7+8)	35 (3) 35 (5)	Red	Emission	100	80
5Y3	Rectifier (P-1) (P-2)	5-T	5 (2+8)	50 (4) 50 (6)	Red	Emission	100	80
5Y4	Rectifier (P-1) (P-2)	5-Q	5 (7+8)	50 (3) 50 (5)	Red	Emission	100	80
5Z3	Rectifier (P-1) (P-2)	4-C	5 (1+4)	35 (2) 35 (3)	Red	Emission	100	80



A — Acorn                      L — Loctal                      M — Miniature                      O — Octal                      SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
5Z4	Rectifier (P-1) (P-2)	5-L	5 (2+8)			17.5 (4) 17.5 (6)						Red	Emission	100	80
6A3	Triode	4-D	6.3 (1+4)		45 (3)	250 (2) 60						5	Gm	5,200	3,000
6A4/LA	Pentode	5-B	6.3 (1+5)		12 (3)	180 (2) 22	180 (4) 4					Red	Gm	2,200	1,200
6A5G	Triode	6-T	6.3 (2+7)	0 (8)	45 (5)	250 (3) 60						5	Gm	5,200	3,000
6A6	Twin Triode (Sec. 1) (Sec. 2)	7-B	6.3 (1+7)	0 (4)	6 (3) 6 (5)	300 (2) 7 300 (6) 7						Red Red	Gm Gm	3,200 3,200	2,000 2,000
6A7	Converter	7-C	6.3 (1+7)	0 (6+C)	2 (5)	250 (4+2) 6.6	50 (3) 1.6					3.5	Gm	2,300	1,600
6A8	Converter	8-A	6.3 (2+7)	0 (8+C)	2 (5)	250 (3+6) 6.6	50 (4) 1.6					3.5	Gm	2,300	1,600
6AB4	Triode	B52	6.3 (3+4)	200 (7)	0 (6)	250 (1) 10						Red	Gm	5,500	4,000
6AB5/- 6N5	Indicator Tube	6-R	6.3 (1+6)	0 (5)		125 (2) Use Resistor Patch Cord. Target (4) to Screen 100 Volts.						Red	Shadow	90 Deg. 0 Deg.	
6AB6	Direct Coupled Triodes	7-W	6.3 (2+7)	0 (8)	0 (5)	250 (3+4) 39						Red	Gm	1,800	1,000
6AB7	Pentode	8-N	6.3 (2+7)	0 (3+5)	3 (4)	300 (8) 12.5	200 (6) 3.2					Red	Gm	5,000	3,000
6AC5	Triode	6-Q	6.3 (2+7)	0 (8)	0 (5)	250 (3) 5						Red	Gm	3,500	2,500
6AC6	Direct Coupled Triodes	7-W	6.3 (2+7)	0 (8)	0 (5)	180 (3+4) 52						Red	Gm	3,000	2,000
6AC7/- 1852	Pentode	8-N	6.3 (2+7)	160 (3+5)	0 (4)	300 (8) 10	150 (6) 2.5					Red	Gm	9,000	6,000
6AD4	Triode	C-20	6.3 (3+4)	750 (5)	0 (2)	100 (1) 1.4						Red	Gm	2,700	1,700
6AD5	Triode	6-Q	6.3 (2+7)	0 (8)	2 (5)	250 (3) 1						Red	Gm	1,500	900
6AD6	Indicator Tube	7-AG	6.3 (2+7)	0 (8)		150 (5)	0 (3+4) +100					Red	Shadow Angle Shadow Angle	135 Deg. 0 Deg.	
6AD7	Triode Pentode (Triode) (Pentode)	8-AY	6.3 (2+7)	0 (8)	25 (1) 16 (5)	250 (6) 3.7 250 (3) 34	250 (4) 6.5					5 Red	Gm Gm	325 2,500	200 1,500
6AE5	Triode	6-Q	6.3 (2+7)	0 (8)	15 (5)	95 (3) 7						5	Gm	1,200	800

6AE6	Twin Plate Control Tube Remote Cut-off Plate Sharp Cut-off Plate	7-AH	6.3 (2+7)	0 (8)	1.5 (5) 1.5 (5)	250 (4) 6.5 250 (3) 4.5			Red Red	Gm Gm	1,000 950	600 450
6AE7	Twin Triode	7-AX	6.3 (2+7)	0 (5+8)	13.5 (4+6)	250 (3) 10			15	Gm	3,000	1,800
6AF4	Triode	C20	6.3 (3+4)	150 (5)	0 (6)	80 (1) 16			15	Gm	6,600	4,000
6AF5	Triode	6-Q	6.3 (2+7)	0 (8)	18 (5)	180 (3) 7			7	Gm	1,500	900
6AF6	Indicator*Tube	7-AG	6.3 (2+7)	0 (8)		135 (5)	85 (3+4)			Shadow Angle	0 Deg.	
6AG5	Pentode	7-BD	6.3 (3+4)	180 (7)	0 (1)	250 (5) 6.5	150 (6) 2		Red	Gm	5,000	3,000
6AG7	Pentode	8-Y	6.3 (2+7)	0 (5+1)	3 (4)	300 (8) 30	150 (6) 7		Red	Gm	11,000	7,000
6AH5	Pentode	6-AP	6.3 (2+7)	0 (8)	18 (6)	300 (4) 48	250 (1) 2.5		Red	Gm	5,000	3,000
6AH6	Pentode	7-BK	6.3 (3+4)	160 (2+7)	0 (1)	300 (5) 10	150 (6) 2.5		Red	Gm	9,000	5,400

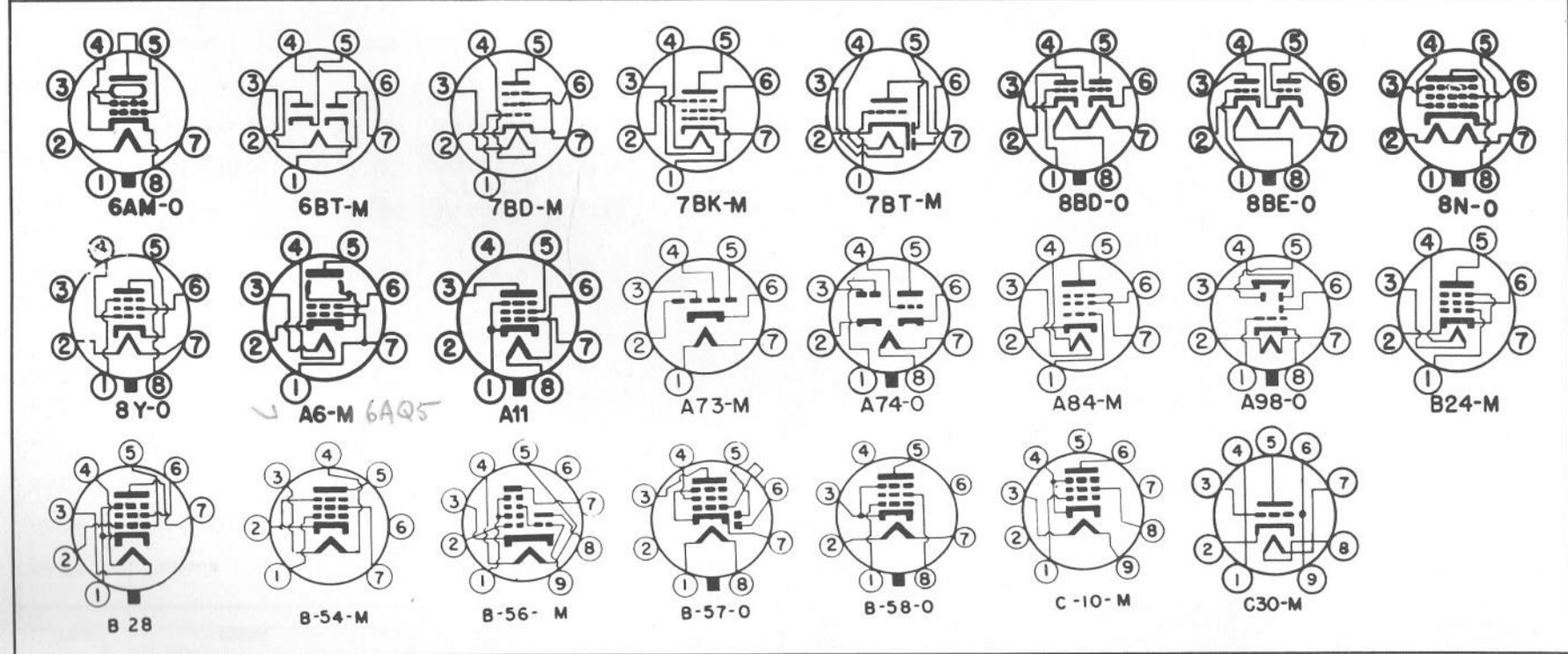


TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR VOLTS MA	AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA				NOMINAL	REJECT
6AH7	Twin Triode (Sec. 1) (Sec. 2)	8-BE	6.3 (7+8)	0 (2)	6.5 (1)	180 (3)	7.5				15	Gm	1,900	1,000
				0 (4)	6.5 (5)	180 (6)	7.5			15	Gm	1,900	1,000	
6AJ4	Triode	C30	6.3 (7+8)	68 (2)	0 (3)	125 (5)	16				Red	Gm	10,000	7,000
6AJ5	Pentode	7-BD	6.3 (3+4)	0 (7)	1 (1)	28 (5)	2.7	28 (6)	1		Red	Gm	2,500	1,000
6AJ7	Pentode	8-N	6.3 (2+7)	160 (3+5)	0 (4)	300 (8)	10	150 (6)	2.5		Red	Gm	9,000	5,000
6AK5	Pentode	7-BD	6.3 (3+4)	180 (2)	0 (1)	180 (5)	7.7	120 (6)	2.5		Red	Gm	5,000	3,000
6AK6	Pentode	7-BK	6.3 (3+4)	0 (2+7)	9 (1)	180 (5)	15	180 (6)	2.5		Red	Gm	2,300	1,500
6AK7	Pentode	8-Y	6.3 (2+7)	0 (5)	3 (4)	300 (8)	30	150 (6)	7		Red	Gm	11,000	6,000
6AL5	Duo Diode (Plate 1) (Plate 2)	6-BT	6.3 (3+4)	0 (1+5)		5 (2) 5 (7)					Red	Emission	20 Ma 20 Ma	10 Ma 10 Ma
6AL6	Pentode	6-AM	6.3 (2+7)	0 (8)	14 (5)	250 (C)	72	250 (4)	5		Red	Gm	6,000	3,500
6AL7	Indicator Tube	A98	6.3 (2+7)	0 (8)	10 (1)	200 (3)				0 (4+5+6) Neg 5 volts	Red	Shadow Angle	180 Deg.	0 Deg.
6AM4	Triode	C10	6.3 (7+8)	100 (2)	0 (1)	150 (5)	7.5				Red	Gm	9,000	6,000
6AM5	Pentode	B54	6.3 (3+4)	0 (2)	13 (1)	250 (5)	16	250 (7)	2.5		Red	Gm	2,600	1,000
6AN5	Pentode	7-BD	6.3 (3+4)	120 (7)	0 (1)	120 (5)	35	120 (6)	12		Red	Gm	8,000	5,000
6AN6	Four Diodes (Plate 1) (Plate 2) (Plate 3) (Plate 4)	A73	6.3 (1+7)	0 (6)		(2) (3) (4) (5)					Red	Emission	Ma	Ma
6AN7	Converter (Triode) (Hexode)	B56	6.3 (4+5)	0 (3)	1 (9) 2 (2)	100 (8)	8 5	100 (1)	0.3		15 15	Gm Gm	2,800 2,600	1,600 1,750
6AQ5	Pentode	A6	6.3 (3+4)	0 (2)	8.5 (1)	180 (5)	29	180 (6)	3		Red	Gm	3,700	2,200
6AQ6	Diode Triode	7-BT	6.3 (3+4)	0 (2)	3 (1)	250 (7)	1				Red	Gm	4,100	2,400
6AQ7	Diode Triode	A74	6.3 (7+8)	0 (6)	2 (4)	250 (5)	2.3				Red	Gm	1,200	800
6AR5	Pentode	B24	6.3 (3+4)	0 (2)	18 (1)	250 (5)	32	250 (6)	5.5		Red	Gm	2,300	1,300
6AR6	Pentode	A11	6.3 (6+8)	0 (1)	36 (7)	300 (3)	58	300 (5)	3.6		Red	Gm	4,300	2,400

6AR7	Pentode	B57	6.3 (1+8)	0 (7)	2 (C)	250 (3) 7	100 (4) 1.8		Red	Gm	2,500	1,500
6AS5	Pentode	B28	6.3 (3+4)	0 (1)	8.5 (2)	150 (7) 35	110 (6) 2		Red	Gm	4,500	3,000
6AS6	Pentode	A84	6.3 (3+4)	0 (2)	2 (1)	120 (5) 5	120 (6) 4	0 (7)	Red	Gm	3,200	1,800
6AS7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	6.3 (7+8)	250 (3) 250 (6)	0 (1) 0 (4)	135 (2) 125 135 (5) 125	See Special Chart		3.5	Gm	7,000	4,000
6AT6	Diode Triode	7-BT	6.3 (3+4)	0 (2)	3 (1)	250 (7) 1			Red	Gm	1,200	800
6AU5	Pentode	B58	6.3 (2+7)	0 (3)	20 (1)	115 (5) 55	175 (8)		Red	Gm	5,200	3,000
6AU6	Pentode	7-BK	6.3 (3+4)	70 (2+7)	0 (1)	250 (5) 11	150 (6) 4		Red	Gm	5,200	3,000

SPECIAL DATA FOR TYPE 6AS7

Black Scale Reading	16.4	18.1	19.7	21.3	22.8	24.2	25.6	26.9	28.2	29.5	30.0
True Gm Micromhos	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	8780



A — Acorn

L — Localt

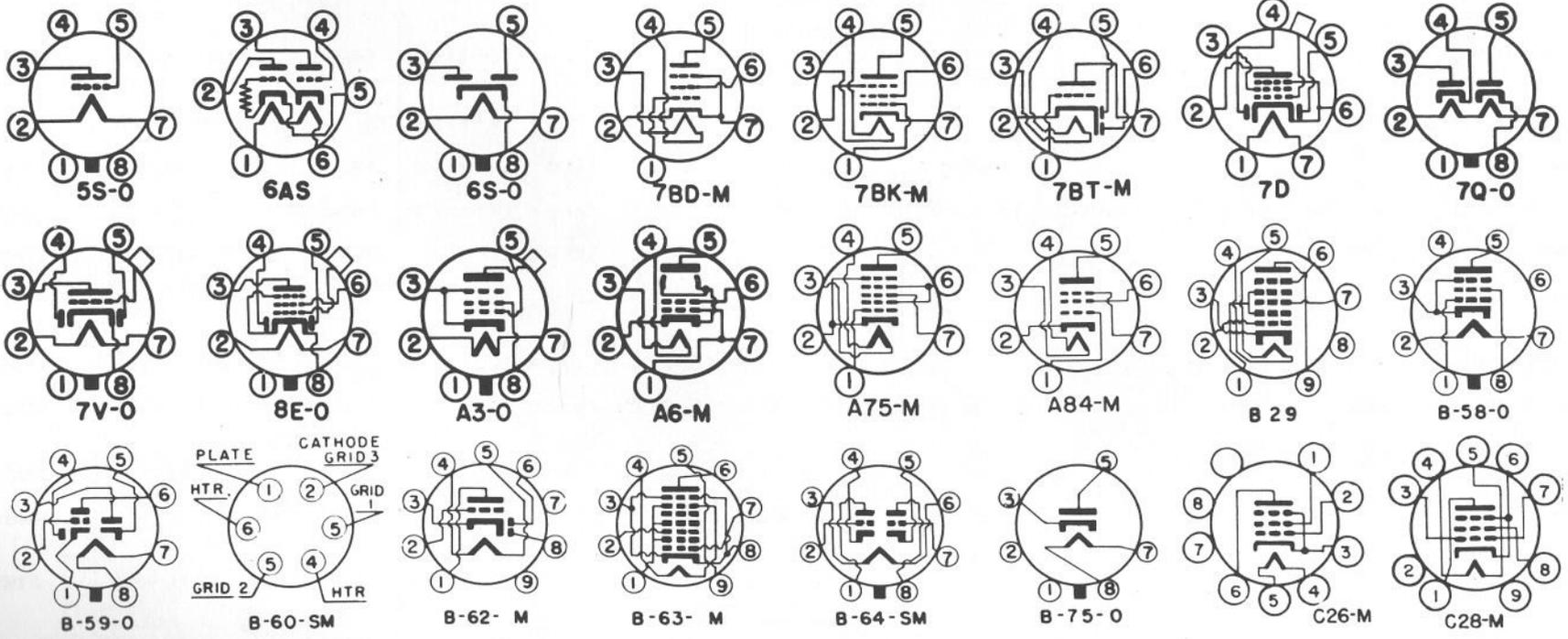
M — Miniature

O — Octal

SM — Subminiature

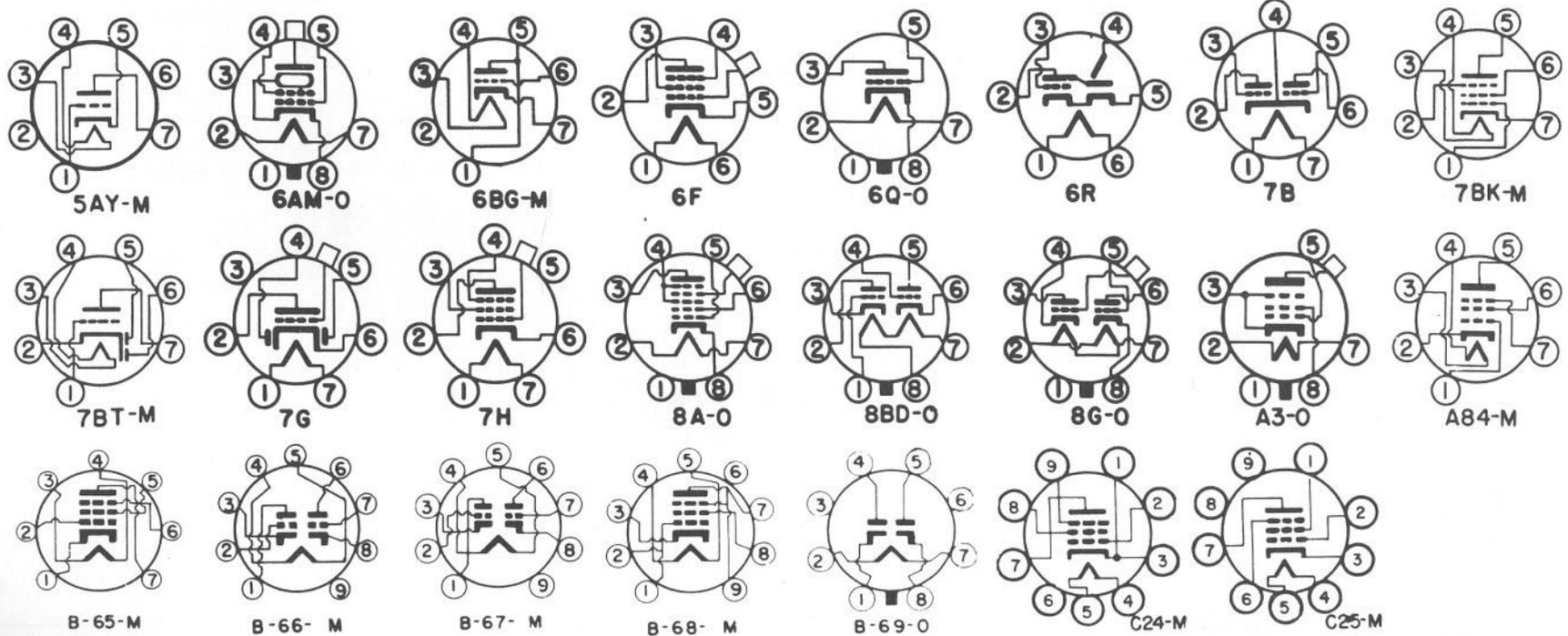
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR VOLTS MA	AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA				NOMINAL	REJECT
6AV5	Pentode	B58	6.3 (2+7)	0 (3)	20 (1)	250 (5)	55	150 (8)			Red	Gm	5,500	3,200
6AV6	Diode Triode	7-BT	6.3 (3+4)	0 (2)	2 (1)	250 (7)	1.5				Red	Gm	1,500	900
6AW7	Diode Triode	B59	6.3 (7+8)	0 (1)	0 (2)	100 (6)	1.5				Red	Gm	1,200	750
6AX4	Rectifier	B75	6.3 (7+8)	0 (3)		20 (5)					Red	Emission	100 Ma	75 Ma
6AX5	Rectifier (Plate 1) (Plate 2)	6-S	6.3 (2+7)	0 (8)		40 (3) 40 (5)					Red	Emission	100 Ma	80 Ma
6AX6	Rectifier (Plate 1) (Plate 2)	7-Q	6.3 (2+7)	0 (4+8)		10 (3) 10 (5)					Red	Emission	100 Ma	75 Ma
6B4	Triode	5-S	6.3 (2+7)		45 (5)	250 (3)	60				5	Gm	5,200	3,000
6B5	Direct Coupled Triodes	6-AS	6.3 (1+6)	0 (5)	0 (4)	300 (2+3)	53				Red	Gm	2,400	1,500
6B6	Diode Triode	7-V	6.3 (2+7)	0 (8)	2 (C)	250 (3)	1				Red	Gm	1,100	600
6B7	Diode Pentode	7-D	6.3 (1+7)	0 (6)	3 (C)	250 (2)	9	125 (3)	2		Red	Gm	1,100	600
6B8	Diode-Pentode	8-E	6.3 (2+7)	0 (8)	3 (C)	250 (3)	10	125 (6)	2.3		Red	Gm	1,300	750
6BA5	Pentode	B60	6.3 (4+6)	270 (2)	0 (3)	100 (1)	5	100 (5)	1		Red	Gm	3,300	2,000
6BA6	Pentode	7-BK	6.3 (3+4)	70 (2+7)	0 (1)	250 (5)	11	100 (6)	4.2		Red	Gm	4,400	2,500
6BA7	Converter	B29	6.3 (4+5)	100 (3)	0 (2+7)	125 (9)	2.2	75 (1)		0 (6)	Red	Gm	2,500	1,500
6BC5	Pentode	7-BD	6.3 (3+4)	180 (2)	0 (1)	250 (5)	7.5	150 (6)	2		Red	Gm	5,700	3,200
6BC7	Triple Diodes (P-1) (P-2) (P-3)		6.3 (4+5)	0 (1+ 7+9)		5 (2) 5 (6) 5 (8)					Red	Emission	35 Ma	20 Ma
6BD6	Pentode	7-BK	6.3 (3+4)	0 (2+7)	3 (1)	250 (5)	9	100 (6)	3.5		Red	Gm	2,000	1,200
6BD7	Diode Pentode	B62	6.3 (4+5)	0 (3)	3 (2)	250 (1)	1				Red	Gm	1,200	800
6BE6	Converter	A75	6.3 (3+4)	300 (2)	0 (1+7)	125 (5)	2.5	75 (6)			5	Gm	2,300	1,500
6BE7	Triple Control Tube	B63	6.3 (4+5)	0 (8)	2 (7)	250 (6)	2.5	100 (1+2+9)	4		Red	Gm	1,200	700
6BF5	Pentode	A6	6.3 (3+4)	0 (2)	7.5 (1)	110 (5)	45	110 (6)	4		Red	Gm	7,500	4,000
6BF6	Diode Triode	7-BT	6.3 (3+4)	0 (2)	9 (1)	250 (7)	9.5				15	Gm	1,900	1,000

6BF7	Twin Triode (Sec. 1) (Sec. 2)	B64	6.3 (3+6)	100 (4+5)	0 (2) 0 (7)	100 (1) 8 100 (8) 8		Red	Gm	4,800	3,000
6BG6	Pentode	A3	6.3 (2+7)	0 (3)	15 (5)	250 (C) 75	250 (8) 6	Red	Gm	6,500	4,000
6BG7	Twin Triode (Sec. 1) (Sec. 2)	B64	6.3 (3+6)	100 (4+5)	0 (2) 0 (7)	100 (1) 8 100 (8) 8		Red	Gm	4,800	3,000
6BH5	Pentode	C26	6.3 (4+5)	0 (3)	2 (2)	250 (6) 7.5	100 (1) 2	Red	Gm	2,300	1,200
6BH6	Pentode	A84	6.3 (3+4)	0 (2+7)	1 (1)	100 (5) 3.5	100 (6) 1.5	Red	Gm	3,400	2,200
6BJ6	Pentode	A84	6.3 (3+4)	0 (2+1)	1 (1)	250 (5) 9	100 (6) 3.5	Red	Gm	3,600	2,500
6BK5	Pentode	C28	6.3 (4+5)	0 (6)	5 (3)	250 (1) 35	250 (8) 3.5	Red	Gm	8,500	5,000



TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
6BK6	Diode Triode	7-BT	6.3 (3+4)	0 (2)	2 (1)	250 (7)	1.5					Red	Gm	1,600	900
6BK7	Twin Triode (Sec. 1) (Sec. 2)	B67	6.3 (4+5)	55 (3+8)	12 (2) 12 (7)	150 (1) 150 (6)	18 18					Red	Gm	8,500	4,000
6BL7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	6.3 (7+8)	0 (3+6)	9 (1) 9 (4)	250 (2) 250 (5)	40 40					15	Gm	7,000	4,500
6BN6	Gated Beam Tube	B65	6.3 (3+4)	20 (1+6)	2 (2)	100 (7)	0.3	50 (5)	4.5			3.5	Gm	800	500
6BN7	Two Triodes (Sec. 1) (Sec. 2)	B66	6.3 (4+5)	0 (3+6)	15 (2) 1 (7)	250 (1) 120 (9)	25 5					10 Red	Gm Gm	5,500 2,000	3,000 1,000
6BQ6	Pentode	6-AM	6.3 (2+7)	0 (8)	25 (5)	250 (C)	55	155 (4)	2			Red	Gm	5,500	3,000
6BQ7	Twin Triode (Sec. 1) (Sec. 2)	B67	6.3 (4+5)	220 (3+8)	0 (2) 0 (7)	150 (1) 150 (6)	9 9					Red	Gm	6,000	3,800
6BT6	Diode Triode	7-BT	6.3 (3+4)	0 (2)	3 (1)	250 (7)	1					Red	Gm	1,200	800
6BU6	Diode Triode	7-BT	6.3 (3+4)	0 (2)	9 (1)	250 (7)	9.5					15	Gm	1,900	1,000
6BW6	Pentode	B68	6.3 (4+5)	0 (3)	12.5 (1)	250 (7)	45	250 (8)	4.5	0 (9)		Red	Gm	4,100	2,500
6BX6	Pentode	C24	6.3 (4+5)	0 (3)	2 (2)	170 (7)	12	170 (8)	3			Red	Gm	8,000	5,000
6BX7	Twin Triode	8-BD	6.3 (7+8)	390 (3+6)	0 (1) 0 (4)	250 (2) 250 (5)	42 42					10	Gm	7,600	4,500
6BY5	Rectifier (P-1) (P-1)	B69	6.3 (2+7)	0 (1+8)		22.5 (4) 22.5 (5)						Red	Emission	100 Ma	75 Ma
6C4	Triode	6-BG	6.3 (3+4)	0 (7)	8.5 (6)	250 (5)	11					15	Gm	2,200	1,200
6C5	Triode	6-Q	6.3 (2+7)	0 (8)	8 (5)	250 (3)	8					Red	Gm	2,000	1,200
6C6	Pentode	6-F	6.3 (1+6)	0 (4+5)	3 (C)	250 (2)	2	100 (3)	0.5			Red	Gm	1,200	750
6C7	Diode Triode	7-G	6.4 (1+7)	0 (6)	9 (C)	250 (2)	5.5					Red	Gm	1,200	750
6C8	Twin Triode (Sec. 1) (Sec. 2)	8-G	6.3 (2+7)	0 (4+8)	4.5 (C) 4.5 (5)	250 (3) 250 (6)	3.5 3.5					Red	Gm	1,600	900
6CB6	Pentode	A84	6.3 (3+4)	180 (7+2)	0 (1)	200 (5)	9.5	150 (6)	2.8			Red	Gm	6,200	3,800
6CD6	Pentode	A3	6.3 (2+7)	0 (3)	(5)	(C)		(8)							
6CG6	Pentode	7-BK	6.3 (3+4)	0 (2+7)	8 (1)	250 (5)	9	150 (6)	2.3			Red	Gm	2,000	1,200
6CK6	Pentode	C25	6.3 (4+5)	0 (6+3)	5.5 (2)	250 (7)	36	250 (1)	5			Red	Gm	10,000	6,000

6CL6	Pentode	B67	6.3 (4+5)	0 (3)	3 (1)	300 (7) 30	150 (8)	Red	Gm	11,000 7,000
6D4	Gas Triode	5-AY	6.3 (3+4)	(5)	(1)	30 (7) 25 (See Instructions.)		Red	Voltage Drop	16 Volts 18 Volts
6D5	Triode	6-Q	6.3 (2+7)	0 (8)	40 (5)	275 (3) 31		5	Gm	2,100 1,000
6D6	Pentode	6-F	6.3 (1+6)	0 (4+5)	3 (C)	250 (2) 8.5	100 (3) 2	Red	Gm	1,600 900
6D7	Pentode	7-H	6.3 (1+7)	0 (4+6)	3 (C)	250 (2) 2	100 (3) 0.5	Red	Gm	1,200 800
6D8	Converter	8-A	6.3 (2+7)	0 (8+C)	2 (5)	250 (3+6) 6.5	50 (4) 1.7	Red	Gm	2,300 1,600
6E5	Indicator Tube	6-R	6.3 (1+6)	0 (5)	0 (3)	70 (2) Use Resistor Patch Cord. Target (4) to Screen 125 Volts		Red	Shadow Angle Shadow Angle	90 Deg. 0 Deg.
					6 (3)					
6E6	Twin Triode (Sec. 1) (Sec. 2)	7-B	6.3 (1+7)	0 (4)	27.5 (3) 27.5 (5)	250 (2) 18 250 (6) 18		Red	Gm	1,700 900



A — Acorn

L — Loctal

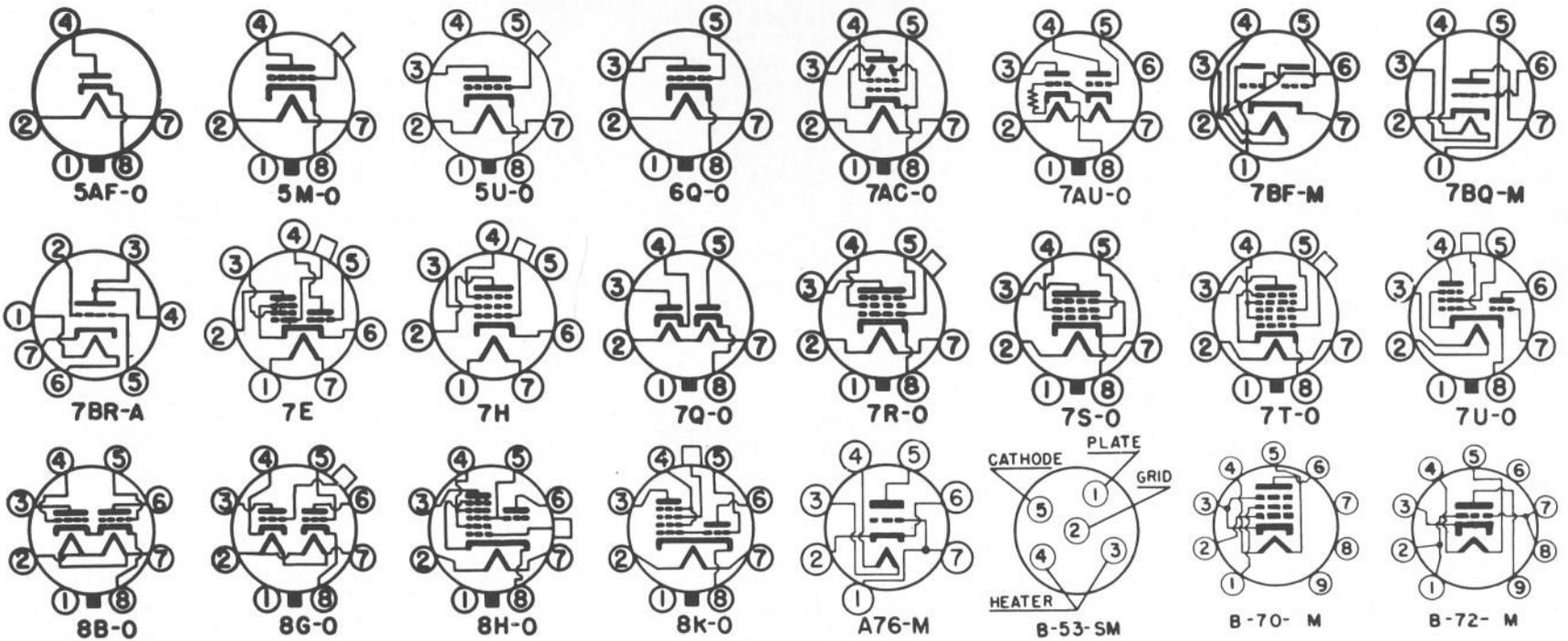
M — Miniature

O — Octal

SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
6E7	Pentode	7-H	6.3 (1+7)	0 (6)	3 (C)	250 (2)	8	100 (3)	2	0 (4)	Red	Gm	1,600	900	
6F4	Triode	7-BR	6.3 (1+6)	100 (7)	0 (2)	80 (4)	13				Red	Gm	5,800	3,500	
6F5	Triode	5-M	6.3 (2+7)	0 (8)	2 (C)	250 (4)	1				Red	Gm	1,500	8,000	
6F6	Pentode	7-S	6.3 (2+7)	0 (8)	20 (5)	285 (3)	38	285 (4)	7		Red	Gm	2,500	1,700	
6F7	Triode Pentode (Triode) (Pentode)	7-E	6.3 (1+7)	0 (6)	3 (5) 3 (C)	100 (4) 250 (2)	3.5 6.5	100 (3)	1.5		7 Red	Gm	500 1,100	300 600	
6F8	Twin Triode (Sec. 1) (Sec. 2)	8-G	6.3 (2+7)	0 (4+8)	8 (5) 8 (C)	250 (6) 250 (3)	9 9				Red	Gm	2,600	1,200	
6G6	Pentode	7-S	6.3 (2+7)	0 (8)	9 (5)	180 (3)	15	180 (4)	2.5		Red	Gm	2,300	1,200	
6H4	Diode	5-AF	6.3 (2+7)	0 (8)		5 (4)					Red	Emission	4 Ma	2 Ma	
6H6	Duo Diodes (P-1) (P-2)	7-Q	6.3 (2+7)	0 (4+8)		6 (3) 6 (5)					Red	Emission	8 Ma	5 Ma	
6J4	Triode	7-BQ	6.3 (3+4)	100 (2)	0 (1)	150 (7)	15				Red	Gm	12,000	7,500	
6J5	Triode	6-Q	6.3 (2+7)	0 (8)	8 (5)	250 (3)	9				Red	Gm	2,600	1,500	
6J6	Twin Triode (Sec. 1) (Sec. 2)	7-BF	6.3 (3+4)	100 (7)	0 (6) 0 (5)	100 (1) 100 (2)	8.5 8.5				Red	Gm	5,300	3,000	
6J7	Pentode	7-R	6.3 (2+7)	0 (5+8)	3 (C)	250 (3)	8.5	100 (4)	0.5		Red	Gm	1,200	800	
6J8	Converter (Triode) (Pentode)	8-H	6.3 (2+7)	0 (8)	2 (5+C)	100 (6) 100 (3)		75 (4)			5 5	Gm Gm	2,000 1,200	1,200 800	
6K4	Triode	6-K4	6.3 (3+4)	680 (5)	0 (2)	200 (1)	11.5				15	Gm	3,400	2,000	
6K5	Triode	5-U	6.3 (2+7)	0 (8)	3 (C)	250 (3)	1.1				Red	Gm	1,400	900	
6K6	Pentode	7-S	6.3 (2+7)	0 (8)	21 (5)	300 (3)	25	250 (4)	4		Red	Gm	2,100	1,000	
6K7	Pentode	7-R	6.3 (2+7)	0 (5+8)	3 (C)	250 (3)	11	125 (4)	2.5	0 (5)	Red	Gm	1,600	900	
6K8	Converter (Triode) (Pentode)	8-K	6.3 (2+7)	0 (8)	2 (5) 2 (5+C)	100 (6) 100 (3)	4 3	75 (4)			5 5	Gm Gm	2,000 1,200	1,500 800	
6L4	Triode	7-BR	6.3 (1+6)	150 (7)	0 (2)	80 (4)	9.5				Red	Gm	6,400	4,000	
6L5	Triode	6-Q	6.3 (2+7)	0 (8)	9 (5)	250 (3)	8				15	Gm	1,900	1,000	
6L6	Pentode	7-AC	6.3 (2+7)	0 (8)	14 (5)	250 (3)	62	250 (4)	5		Red	Gm	6,000	4,000	

6L7	Mixer Tube	7-T	6.3 (2+7)	0 (8)	3 (C+5)	250 (3) 5.3	100 (4) 6.5	Red	Gm	1,100	700
6M5	Pentode	B70	6.3 (4+5)	170 (3)	0 (2)	250 (7) 36	250 (1) 5	Red	Gm	10,000	6,000
6N4	Triode	7-CA	6.3 (3+4)	0 (2)	3.5 (1)	180 (5) 12		Red	Gm	6,000	3,500
6N6	Direct Coupled Triodes	7-AU	6.3 (2+7)	0 (8)	0 (5)	300 (3+4) 46		Red	Gm	2,600	1,500
6N7	Twin Triode	8-B	6.3 (2+7)	0 (8)	0 (4+5)	300 (3+6) 35		Red	Gm	3,200	2,000
6N8	Diode Pentode	B72	6.3 (4+5)	290 (3+9)	0 (2)	250 (6) 5	250 (1) 1.5	Red	Gm	2,600	1,400
6P5	Triode	6-Q	6.3 (2+7)	0 (8)	12.5 (5)	250 (3) 5		15	Gm	1,400	900
6P7	Triode Pentode (Triode) (Pentode)	7-U	6.3 (2+3)	0 (8)	3 (7) 3 (C)	100 (6) 3.5 250 (4) 6.5	100 (5) 1.5	7 Red	Gm Gm	500 1,100	300 750



A — Acorn

L — Loctal

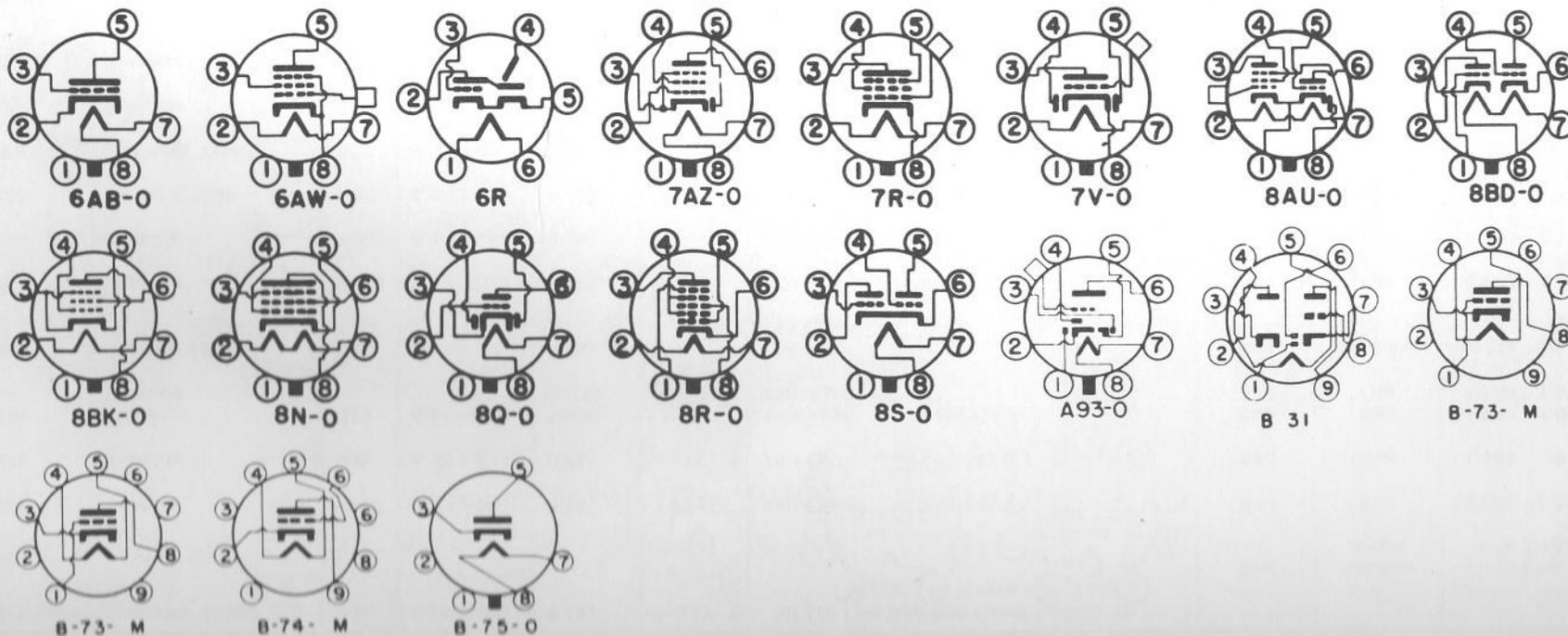
M — Miniature

O — Octal

SM — Subminiature

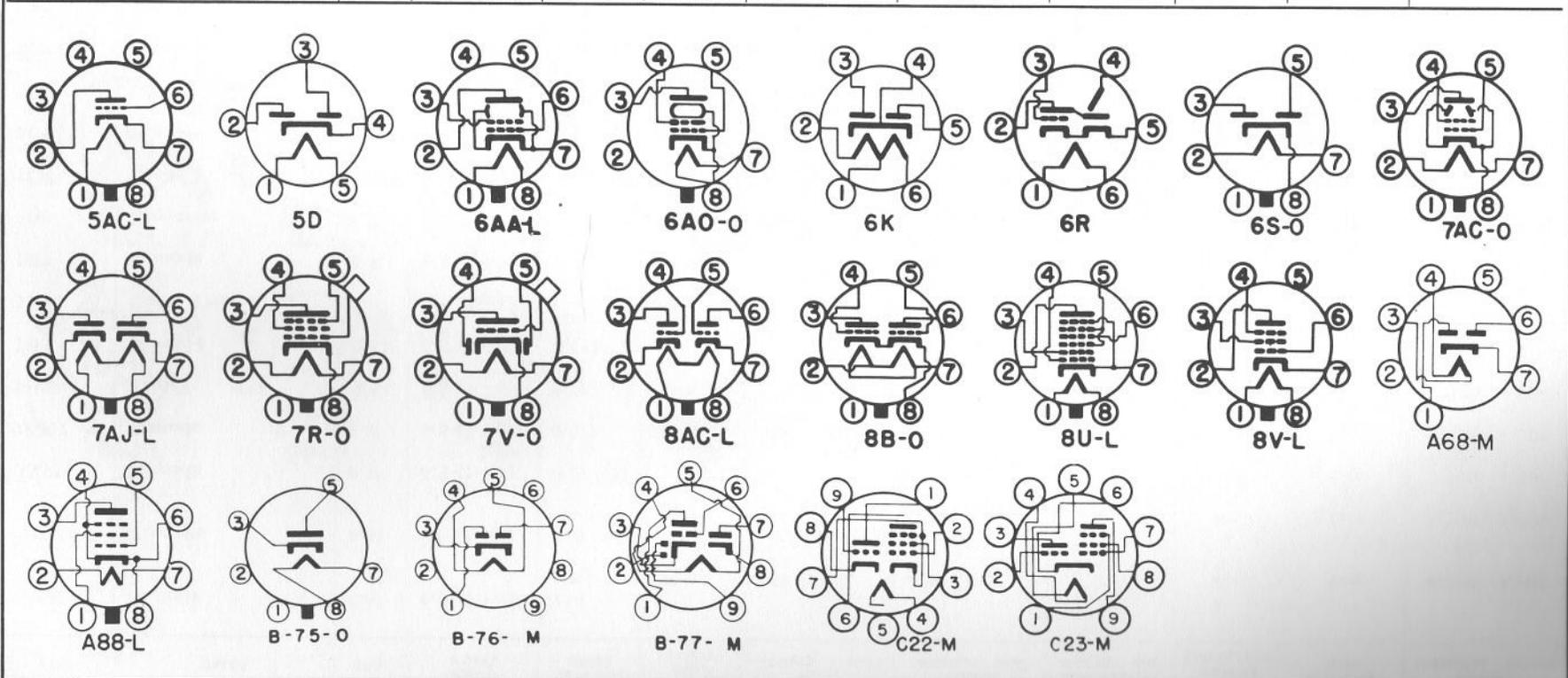
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
6Q4	Triode	B72	6.3 (4+5)	0 (3)	1.5 (2)	250 (9)	15					Red	Gm	12,000	7,000
6Q7	Diode Triode	7-V	6.3 (2+7)	0 (8)	3 (C)	250 (3)	1					Red	Gm	1,200	750
6R4	Triode	B73	6.3 (4+5)	0 (3)	2 (1)	150 (8)	30					15	Gm	5,500	3,000
6R6	Pentode	6-AW	6.3 (2+7)	0 (8)	3 (C)	250 (5)	7	100 (3)	1.8			Red	Gm	1,400	800
6R7	Diodes Triode	7-V	6.3 (2+7)	0 (8)	9 (C)	250 (3)	10					15	Gm	1,900	1,000
6R8	3 Diodes Triode	B31	6.3 (4+5)	0 (3+7)	9 (8)	250 (9)	9.5					15	Gm	1,900	1,000
6S4	Triode	B74	6.3 (4+5)	0 (2)	8 (6)	250 (9)	26					15	Gm	4,500	2,800
6S7	Pentode	7-R	6.3 (2+7)	0 (5+8)	3 (C)	250 (3)	8.5	100 (4)	2			Red	Gm	1,700	1,000
6M8	Diode Triode Pentode (Triode) (Pentode)	8-AU	6.3 (2+7)	0 (1)	0 (5)	100 (6)	0.5					Red	Gm	1,100	600
					3 (C)	100 (3)	8.5	100 (4)	Red	Gm	1,900	1,000			
6S8	3 Diodes Triode	A93	6.3 (7+8)	0 (2)	2 (C)	250 (6)	1					Red	Gm	1,100	700
6SA7	Converter	8-R	6.3 (2+7)	250 (6)	0 (5+8)	125 (3)	2.5	75 (4)				5	Gm	1,700	1,200
6SB7-Y	Converter	8-R	6.3 (2+7)	250 (6)	0 (5+8)	125 (3)	3	75 (4)				5	Gm	2,200	1,400
6SC7	Twin Triode (Sec. 1) (Sec. 2)	8-S	6.3 (7+8)	0 (6)	2 (3)	250 (2)	2					Red	Gm	1,300	900
					2 (4)	250 (5)	2								
6SD7	Pentode	8-N	6.3 (2+7)	0 (5)	2 (4)	250 (8)	9.5	125 (6)	3	0 (3)		Red	Gm	4,200	2,800
6SE7	Pentode	8-N	6.3 (2+7)	0 (5)	1.5 (4)	250 (8)	4.5	100 (6)	1.5	0 (3)		Red	Gm	3,400	2,200
6SF5	Triode	6-AB	6.3 (7+8)	0 (2)	2 (3)	250 (5)	1					Red	Gm	1,500	1,000
6SF7	Diode Pentode	7-AZ	6.3 (7+8)	0 (3)	1 (2)	250 (6)	12.5	100 (4)	3.3			Red	Gm	2,000	1,000
6SG7	Pentode	8-BK	6.3 (2+7)	0 (3)	2.5 (4)	250 (8)	9	150 (6)	3.5			Red	Gm	4,000	2,400
6SH7	Pentode	8-BK	6.3 (2+7)	0 (3)	1 (4)	250 (8)	10	150 (6)	4			Red	Gm	5,000	3,000
6SJ7	Pentode	8-N	6.3 (2+7)	0 (5)	3 (4)	250 (8)	3	100 (6)	1	0 (3)		Red	Gm	1,600	900
6SK7	Pentode	8-N	6.3 (2+7)	0 (5)	3 (4)	250 (8)	9	100 (6)	2.5	0 (3)		Red	Gm	2,000	1,200
6SL7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	6.3 (7+8)	0 (3+6)	2 (1)	250 (2)	2.5					Red	Gm	1,600	900
					2 (4)	250 (5)	2.5								
6SN7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	6.3 (7+8)	0 (3+6)	8 (1) 8 (4)	250 (2) 250 (5)	9					Red	Gm	2,600	1,200
6SQ7	Diode Triode	8-Q	6.3 (7+8)	0 (3)	2 (2)	250 (6)	1.5					Red	Gm	1,100	600

6SR7	Diode Triode	8-Q	6.3 (7+8)	0 (3)	9 (2)	250 (6) 10			Red	Gm	1,800	1,000
6SS7	Pentode	8-N	6.3 (2+7)	0 (5)	3 (4)	250 (8) 9	100 (6)	0 (3)	Red	Gm	1,800	1,000
6ST7	Diode Triode	8-Q	6.3 (7+8)	0 (3)	9 (2)	250 (6) 10			15	Gm	1,800	1,000
6SU7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	6.3 (7+8)	0 (3+6)	2 (1) 2 (4)	250 (2) 2.5 250 (5) 2.5			Red	Gm	1,600	900
6SV7	Diode Pentode	7-AZ	6.3 (7+8)	0 (3)	1 (2)	250 (6) 7.5	150 (4) 2.8		Red	Gm	3,600	2,000
6SZ7	Diode Triode	8-Q	6.3 (7+8)	0 (3)	3 (2)	250 (6) 1			Red	Gm	1,200	800
6T5	Indicator Tube	6-R	6.3 (1+6)	0 (5)			80 (2) Use Resistor Patch Cord. Target (4) Screen 125 Volts		Red	Shadow Angle		45 Deg. 0 Deg.
6T7	Diode Triode	7-V	6.3 (2+7)	0 (8)	0 (3) 10 (3)	3 (C)	250 (3) 1.5		Red	Gm	1,000	600
6T8	3 Diodes Triode	B31	6.3 (4+5)	0 (7)	3 (8)	250 (9) 1			Red	Gm	1,200	700
6U4	Rectifier	B75	6.3 (7+8)	0 (3)		10 (5)				Emission	100 Ma	80 Ma



TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
6U5/6GS	Indicator Tube	6-R	6.3 (1+6)	0 (5)	(3) 0 (3) 10 (3)	80 (2) Use Resistor Patch Cord. Target (4) Screen 125 Volts						Red	Shadow Angle	45 Deg. 0 Deg.	
6U6	Pentode	7-AC	6.3 (2+7)	0 (8)	14 (5)	200 (3) 55		135 (4) 3				Red	Gm	6,200	3,500
6U7	Pentode	7-R	6.3 (2+7)	0 (8)	3 (C)	250 (3) 8		100 (4) 2		0 (5)		Red	Gm	1,500	900
6U8	Triode Pentode	C22	6.3(4+5)	56(8) 68(8)	0(9) 0(2)	150(1)18 250(6)10		110(3)3.5				Red Red	Gm Gm	4,500 5,200	5,000 3,000
6V4	Rectifier (P-1) (P-2)	B76	6.3 (4+5)	0 (3)		33 (1) 33 (2)						Red	Emission	90 Ma	60 Ma
6V5	Pentode	6-AO	6.3 (7+8)	0 (8)	12 (5)	250 (3) 45		250 (4) 4.5				Red	Gm	4,100	2,500
6V6	Pentode	7-AC	6.3 (2+7)	0 (8)	12 (5)	250 (3) 32		250 (4) 5				Red	Gm	4,100	2,500
6V7	Diode Triode	7-V	6.3 (2+7)	0 (8)	20 (C)	250 (3) 8						7	Gm	1,100	700
6V8	3 Diodes Triode	B77	6.3 (4+5)	0 (3)	3 (6)	250 (1) 1						Red	Gm	1,200	700
6W4	Rectifier	B75	6.3 (7+8)	0 (3)		12 (5)						Red	Emission	120 Ma	90 Ma
6W5	Rectifier (P-1) (P-2)	6-S	6.3 (2+7)	0 (8)		(3) (5)						Red	Emission	Ma	Ma
6W6	Pentode	7-AC	6.3 (2+7)	180 (8)	0 (5)	200 (3) 44		125 (4) 2.5				Red	Gm	8,000	4,500
6W7	Pentode	7-R	6.3 (2+7)	0 (5+8)	3 (C)	250 (3) 2		100 (4) 0.5				Red	Gm	1,200	700
6X4	Rectifier	A68	6.3 (3+4)	0 (7)		22 (1) 22 (6)						Red	Emission	70 Ma	50 Ma
6X5	Rectifier (P-1) (P-2)	6-S	6.3 (2+7)	0 (8)		22 (3) 22 (5)						Red	Emission	70 Ma	50 Ma
6X8	Triode Pentode (Triode) (Pentode)	C23	6.3 (4+5)	100 (6) 200 (6+1)	0 (2) 0 (7)	100 (3) 8.5 250 (9) 7.7		150 (8) 1.6				Red Red	Gm Gm	5,800 4,600	3,500 2,500
6Y6	Pentode	7-AC	6.3 (2+7)	0 (8)	14 (5)	200 (3) 61		135 (4) 2.5				Red	Gm	7,100	4,500
6Y7	Twin Triode (Sec. 1) (Sec. 2)	8-B	6.3 (2+7)	0 (8) 0 (8)	0 (4) 0 (5)	250 (3) 5 250 (6) 5						Red	Gm	3,000	1,900
6Z4	Rectifier (P-1) (P-2)	5-D	6.3 (1+5)	0 (4)		(2) (3)						Red	Emission	Ma	Ma
6Z5	Rectifier (P-1) (P-2)	6-K	12.6 (2+6)	0 (5)		14 (3) 14 (4)						Red	Emission	75 Ma	50 Ma

6Z7	Twin Triode (Sec. 1) (Sec. 2)	8-B	6.3 (2+7)	0 (8)	0 (4) 0 (5)	180 (3) 5 180 (6) 5			Red	Gm	2,500	1,500
6ZY5	Rectifier (P-1) (P-1)	6-S	6.3 (2+7)	0 (8)		11 (3) 11 (5)			Red	Emission	40 Ma	30 Ma
7A4	Triode	5-AC	6.3 (1+8)	0 (7)	8 (6)	250 (2) 9			Red	Gm	2,600	1,500
7A5	Pentode	6-AA	6.3 (1+8)	0 (7)	7.5 (6)	110 (2) 40	110 (3) 3		Red	Gm	5,800	3,500
7A6	Duo Diode (P-1) (P-2)	7-AJ	6.3 (1+8)	0 (2+7)		11 (3) 11 (6)			Red	Emission	16 Ma	10 Ma
7A7	Pentode	8-V	6.3 (1+8)	0 (7)	3 (6)	250 (2) 9.2	100 (3)	0 (4)	Red	Gm	2,000	1,200
7A8	Converter	8-U	6.3 (1+8)	100 (7)	0 (4+6)	125 (2+3) 6.2	75 (5)		5	Gm	2,000	1,200
7AB7	Pentode	A88	6.3 (2+7)	0 (8)	2 (5)	250 (3) 4	100 (1) 3.2		Red	Gm	1,800	1,000
7AD7	Pentode	8-V	6.3 (1+8)	68 (4+7)	0 (6)	300 (2) 28	150 (3) 7		Red	Gm	9,500	5,000
7AF7	Twin Triode (Sec. 1) (Sec. 2)	8-AC	6.3 (1+8)	0 (2) 0 (7)	10 (4) 10 (5)	250 (3) 9 250 (6) 9			15	Gm	2,100	1,000



A — Acorn

L — Loctal

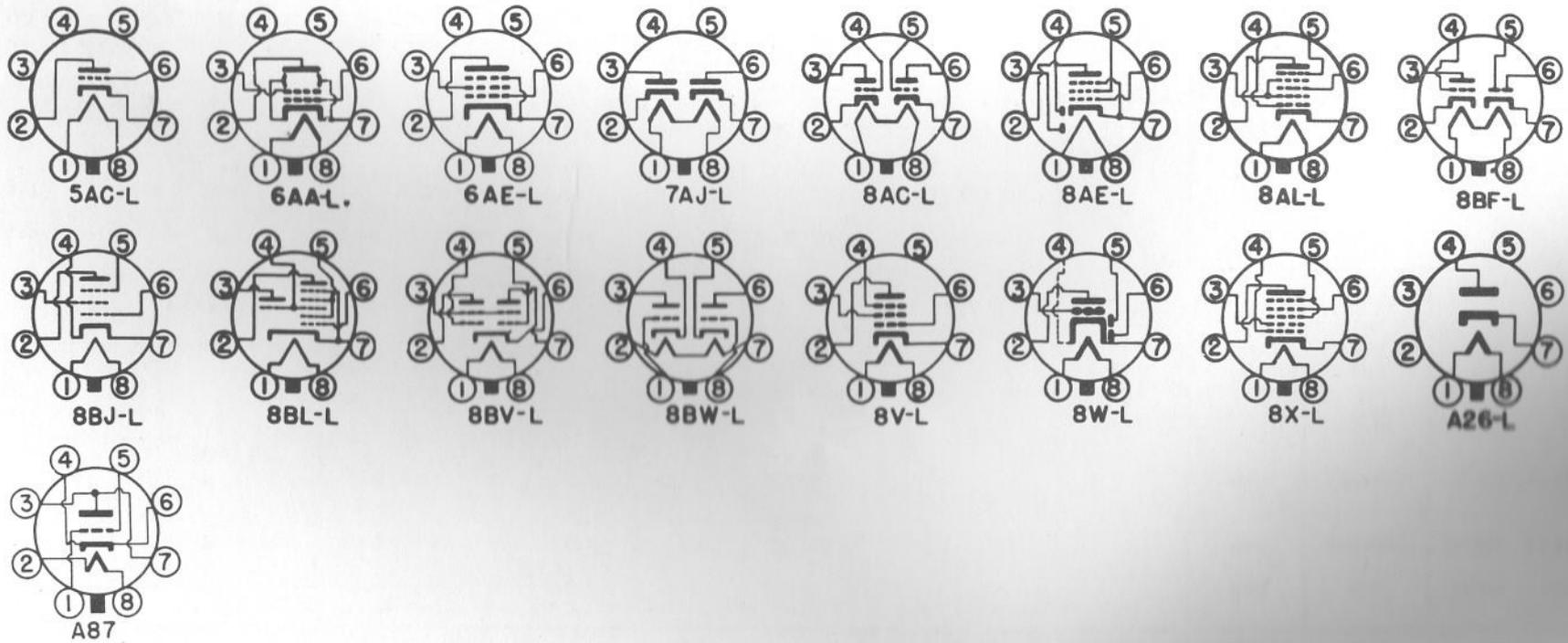
M — Miniature

O — Octal

SM — Subminiature

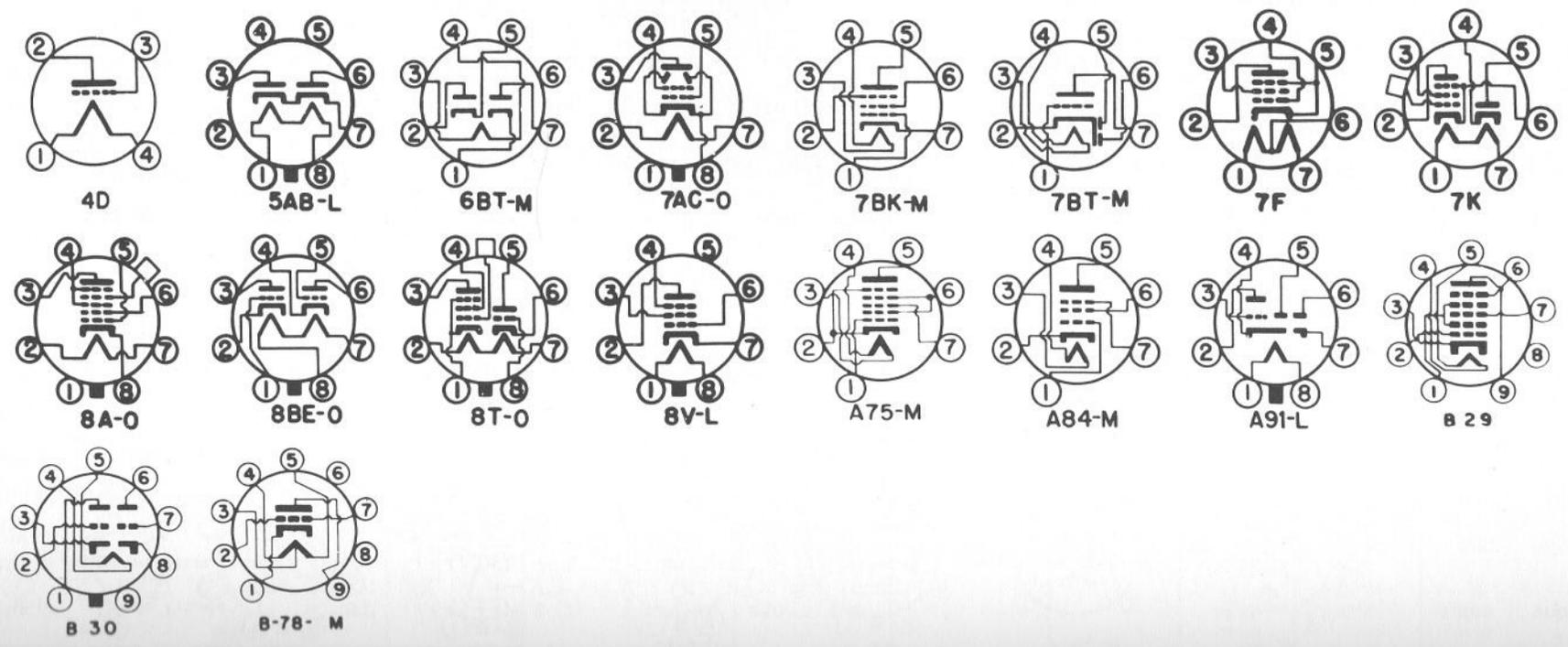
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASURE- MENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
7AG7	Pentode	8-V	6.3 (1+8)	250 (4+7)	0 (6)	250 (2)	6	250 (3)	2			Red	Gm	4,200	3,500
7AH7	Pentode	8-V	6.3 (1+8)	250 (4+7)	0 (6)	250 (2)	6	250 (3)	1.9			Red	Gm	3,300	2,000
7AJ7	Pentode	8-V	6.3 (1+8)	0 (4+7)	1 (6)	100 (2)	6	100 (3)	2			Red	Gm	2,300	1,200
7AK7	Pentode	8-V	6.3 (1+8)	0 (7)	0 (6)	150 (2)	40	90 (3)	21	0 (4)		Red	Gm	6,500	4,000
7B4	Triode	5-AC	6.3 (1+8)	0 (7)	2 (6)	250 (2)	1					Red	Gm	1,500	900
7B5	Pentode	6-AE	6.3 (1+8)	0 (7)	18 (6)	250 (2)	32	250 (3)	5.5			Red	Gm	2,300	1,200
7B6	Diode Triode	8-W	6.3 (1+8)	0 (7)	2 (3)	250 (2)	1					Red	Gm	1,100	600
7B7	Pentode	8-V	6.3 (1+8)	0 (4+7)	3 (6)	250 (2)	8.5	100 (3)	2			Red	Gm	1,700	900
7B8	Converter	8-X	6.3 (1+8)	0 (6+7)	2 (4)	250 (2+3)	6.6	50 (5)	1.6			3.5	Gm	2,300	1,600
7C4	Diode	A26	6.3 (1+8)	0 (7)		(4)						Red	Emission	Ma	Ma
7C5	Pentode	6-AA	6.3 (1+8)	0 (7)	8.5 (6)	180 (2)	29	180 (3)				Red	Gm	3,700	2,500
7C6	Diode Triode	8-W	6.3 (1+8)	0 (7)	1 (3)	250 (2)	1.3					Red	Gm	1,000	600
7C7	Pentode	8-V	6.3 (1+8)	0 (4+7)	3 (6)	250 (2)	2	100 (3)	0.3			Red	Gm	1,300	800
7E5	Triode	A87	6.3 (2+8)	0 (6)	3 (1)	180 (7)	5.5					Red	Gm	3,000	1,800
7E6	Diode Triode	8-W	6.3 (1+8)	0 (7)	9 (3)	250 (2)	9.5					15	Gm	1,900	1,000
7E7	Diode Pentode	8-AE	6.3 (1+8)	0 (7)	3 (6)	250 (2)	7.5	100 (5)	1.6			Red	Gm	1,300	750
7F7	Twin Triode (Sec. 1) (Sec. 2)	8-AC	6.3 (1+8)	0 (2+7)	2 (4) 2 (5)	250 (3) 250 (6)	2.3 2.3					Red	Gm	1,600	900
7F8	Twin Triode (Sec. 1) (Sec. 2)	8-BW	6.3 (2+7)	500 (4+5)	0 (1) 0 (8)	250 (3) 250 (6)	6 6					Red	Gm	3,300	2,000
7G7	Pentode	8-V	6.3 (1+8)	0 (7)	2 (6)	250 (2)	5	100 (3)	2	0 (4)		Red	Gm	4,500	2,500
7G8	Twin Tetrode (Sec. 1) (Sec. 2)	8-BV	6.3 (1+8)	0 (6)	2.5 (4) 2.5 (5)	250 (2) 250 (7)	4.5 4.5	100 (3)	0.8			Red	Gm	2,100	1,200
7H7	Pentode	8-V	6.3 (1+8)	180 (4+7)	0 (6)	250 (2)	10	150 (3)	3.2			Red	Gm	4,000	2,400
7J7	Converter (Triode) (Pentode)	8-BL	6.3 (1+8)	0 (7)	2 (4) 2 (6)	100 (3) 100 (2)	6 1.2	100 (5)	3			5 5	Gm Gm	2,000 1,200	1,200 800

7K7	Diode Triode	8-BF	6.3 (1+8)	0 (2)	2 (4)	250 (3) 2.3			Red	Gm	1,600	900
7L7	Pentode	8-V	6.3 (1+8)	0 (7)	15 (6)	250 (2) 4.5	100 (3) 1.5	0 (4)	Red	Gm	3,100	1,900
7N7	Twin Triode (Sec. 1) (Sec. 2)	8-AC	6.3 (1+8)	0 (2+7)	8 (4) 8 (5)	250 (3) 9 250 (6) 9			Red	Gm	2,600	1,600
7Q7	Converter	8-AL	6.3 (8+1)	0 (7+5)	(4+6)	125 (2) 2.5	75 (3)		5	Gm	1,700	1,200
7R7	Diode Pentode	8-AE	6.3 (1+8)	0 (7)	1 (6)	250 (2) 5.7	100 (5) 2.1		Red	Gm	3,200	2,000
7S7	Converter (Triode) (Pentode)	8-BL	6.3 (1+8)	0 (7)	2 (4+6)	100 (3) 6 100 (2) 1.2	100 (5) 3		5 5	Gm Gm	2,100 1,300	1,200 800
7T7	Pentode	8-V	6.3 (1+8)	0 (7)	2 (6)	250 (2) 11	150 (3) 4.1	0 (4)	Red	Gm	5,000	3,000
7V7	Pentode	8-V	6.3 (1+8)	160 (7)	0 (6)	300 (2) 10	200 (3)	0 (4)	Red	Gm	5,800	3,600
7W7	Pentode	8-BJ	6.3 (1+8)	160 (7)	0 (6)	300 (2) 10	150 (3) 3.5	0 (5)	Red	Gm	5,800	3,600
7X6	Rectifier (P-1) (P-2)	7-AJ	6.3 (1+8)	0 (2+7)		25 (3) (6)			Red	Emission	75 Ma	50 Ma



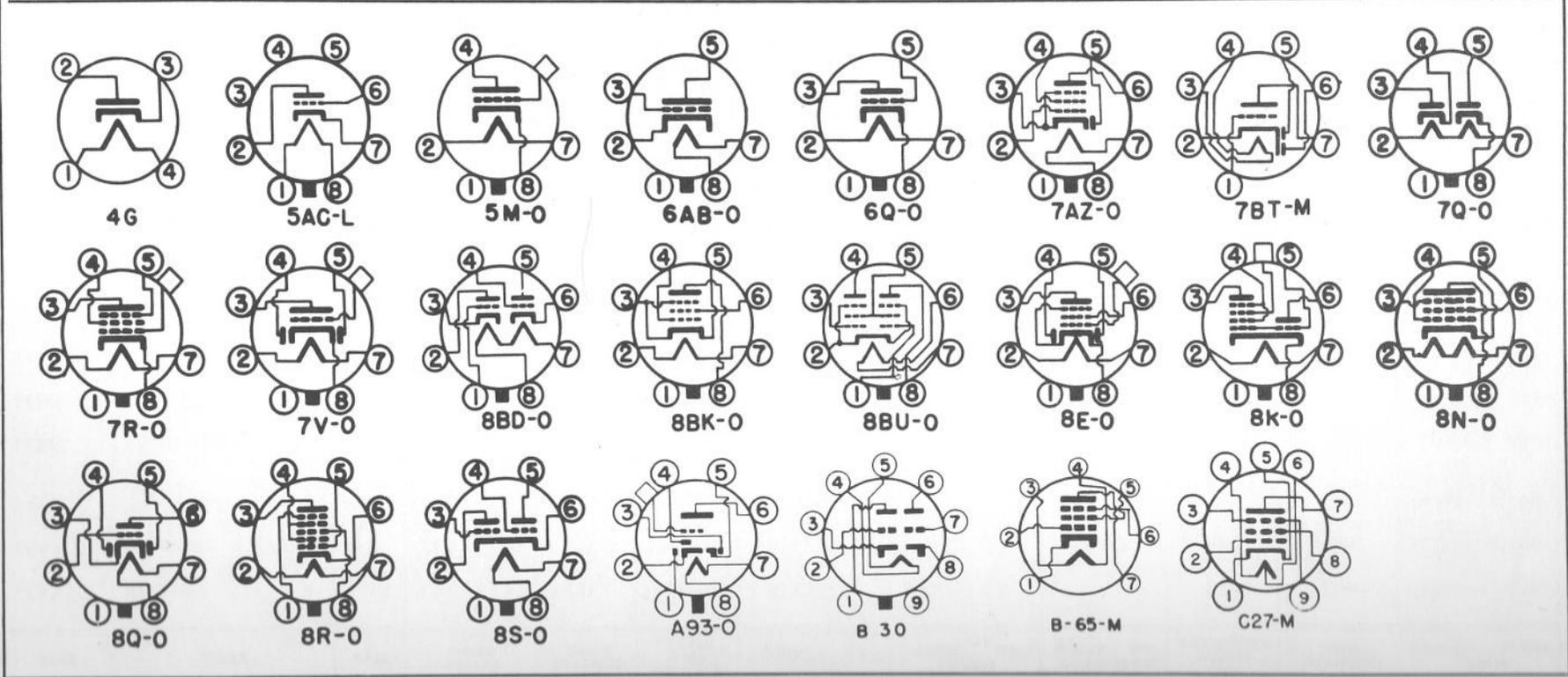
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
7X7	Diode Triode	A91	6.3 (1+8)	0 (4)	1 (3)	250 (2)	1.9					Red	Gm	1,500	900
7Y4	Rectifier (P-1) (P-1)	5-AB	6.3 (1+8)	0 (7)		20 (3) 20 (6)						Red	Emission	60 Ma	35 Ma
7Z4	Rectifier (P-1) (P-2)	5-AB	6.3 (1+8)	0 (7)		38 (3) 38 (6)						Red	Emission	90 Ma	50 Ma
10	Triode	4-D	7.5 (1+4)		30 (3)	300 (2)	18					7	Gm	1,600	1,000
12-A	Triode	4-D	5 (1+4)		13.5 (3)	180 (2)	8					7	Gm	1,800	1,000
12A4	Triode	B78	12.6 (4+5)	0 (1)	9 (7)	250 (9)	21					Red	Gm	7,200	4,000
12A5	Pentode	7-F	12.6 (1+7)	0 (5)	25 (4)	180 (2)	45	180 (3)	8			Red	Gm	2,400	1,200
12A6	Pentode	7-AC	12.6 (2+7)	0 (8)	12.5 (5)	250 (3)	30	250 (4)	3.5			Red	Gm	3,000	1,800
12A7	Diode Pentode (Diode)	7-K	12.6 (1+7)	0 (6) 0 (4)	13.5 (C)	135 (2) 15 (5)	9	135 (3)	2.5			Red Red	Gm Emission	975 60 Ma	500 35 Ma
12A8	Converter	8-A	12.6 (2+7)	0 (8+C)	2 (5)	250 (3+6)	6.6	50 (4)	1.6			3.5	Gm	2,300	1,600
12AH7	Twin Triode (Sec. 1) (Sec. 2)	8-BE	12.6 (7+8)	0 (2) 0 (4)	6.5 (1) 6.5 (5)	180 (3) 180 (6)	7.5 7.5					15	Gm	1,900	1,000
12AL5	Duo Diode (P-1) (P-2)	6-BT	12.6 (3+4)	0 (1+5)		2.5 (2) 2.5 (7)						Red	Emission	7 Ma	4 Ma
12AT6	Diode Triode	7-BT	12.6 (3+4)	0 (2)	3 (1)	250 (7)	1					Red	Gm	1,200	700
12AT7	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	400 (3+8)	0 (2) 0 (7)	100 (1) 100 (6)						Red	Gm	5,500	3,000
12AU6	Pentode	7-BK	12.6 (3+4)	68 (2+7)	0 (1)	250 (5)	10	150 (6)	4.3			Red	Gm	5,200	3,000
12AU7	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	8.5 (2) 8.5 (7)	250 (1) 250 (6)	11 11					15	Gm	2,200	1,200
12AV6	Diode Triode	7-BT	12.6 (3+4)	0 (2)	2 (1)	250 (7)	1.2					Red	Gm	1,600	900
12AV7	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	55 (3+8)	0 (2) 0 (7)	150 (1) 150 (6)	18 18					Red	Gm	8,500	5,000
12AW6	Pentode	A84	12.6 (3+4)	200 (2)	0 (1)	250 (5)	7	150 (6)	2	0 (7)		Red	Gm	5,000	3,000
12AX4	Same as 6AX4														
12AX7	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	1 (2) 1 (7)	100 (1) 100 (6)	0.5 0.5					Red	Gm	1,200	700
12AY7	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	4 (2) 4 (7)	250 (1) 250 (6)	3 3					Red	Gm	1,700	1,000

12AZ7	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	1 (2) 1 (7)	100 (1) 4 100 (6) 4			Red	Gm	4,000 2,300
12B4	Triode	B78	12.6 (4+5)	0 (1)	17.5 (2)	250 (9) 35			7	Gm	6,500 3,500
12B7	Pentode	8-V	12.6 (1+8)	0 (7)	3 (6)	250 (2) 9	100 (3) 2.6	0 (4)	Red	Gm	1,900 1,000
12B8	Triode (Pentode) (Triode)	8-T	12.6 (2+7)	0 (1) 0 (6)	3 (C) 0 (8)	90 (3) 7 90 (5) 3	90 (4) 2		Red Red	Gm Gm	1,800 1,000 2,400 1,200
12BA6	Pentode	7-BK	12.6 (3+4)	68 (7)	0 (1)	250 (5) 11	100 (6) 4.2	0 (2)	Red	Gm	4,400 2,400
12BA7	Converter	B29	12.6 (4+5)	100 (3)	0 (2+7)	125 (9) 2.2	75 (1)	0 (6)	Red	Gm	2,500 1,500
12BD6	Pentode	7-BK	12.6 (3+4)	0 (7)	3 (1)	250 (5) 9	100 (6) 3.5	0 (2)	Red	Gm	2,000 1,000
12BE6	Converter	A75	12.6 (3+4)	300 (2)	0 (1+7)	125 (5) 2.5	75 (6)		5	Gm	2,300 1,500
12BF6	Diode Triode	7-BT	12.6 (3+4)	0 (2)	9 (1)	250 (7) 9.5			15	Gm	1,900 1,000
12BH6	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	10.5 (2) 10.5 (7)	250 (1) 11.5 250 (6) 11.5			15	Gm	3,100 1,800



TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
12BK6	Diode Triode	7-BT	12.6 (3+4)	0 (2)	2 (1)	250 (7)	1.2					Red	Gm	1,600	900
12BN6	Gated Beam Tube	B65	12.6 (3+4)	200 (1+6)	2 (2)	100 (7)	0.3	50 (5)	4.5			3.5	Gm	800	500
12BT6	Diode Triode	7-BT	12.6 (3+4)	0 (2)	3 (1)	250 (7)	1					Red	Gm	1,200	700
12BU6	Diode Triode	7-BT	12.6 (3+4)	0 (2)	9 (1)	250 (7)	9.5					15	Gm	1,900	1,000
12BY7	Pentode	C27	12.6 (4+5)	68 (1)	0 (2)	250 (7)	25	150 (8)	6	0 (3)		Red	Gm	12,000	7,500
12BZ7	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (4+5)	2 (2) 2 (7)	250 (1) 250 (6)	2.5 2.5					Red	Gm	3,200	1,800
12C8Y	Diode Pentode	8-E	12.6 (2+7)	0 (8)	3 (C)	250 (3)	10	125 (6)	2.3			Red	Gm	1,300	850
12E5	Triode	6-Q	12.6 (2+7)	0 (8)	13 (5)	250 (3)	5					15	Gm	1,400	900
12F5	Triode	5-M	12.6 (2+7)	0 (8)	2 (C)	250 (4)	1					Red	Gm	1,500	900
12H6	Diodes (P-1) (P-2)	7-Q	12.6 (2+7)	0 (4+8)		6 (3) 6 (5)						Red	Emission	8 Ma	4 Ma
12J5	Triode	6-Q	12.6 (2+7)	0 (8)	8 (5)	250 (3)	9					Red	Gm	3,000	1,800
12J7	Pentode	7-R	12.6 (2+7)	Same as 6J7											
12K7	Pentode	7-R	12.6 (2+7)	Same as 6K7											
12K8	Converter	8-K	12.6 (2+7)	Same as 6K8											
12L8	Twin Pentode (Sec. 1) (Sec. 2)	8-BU	12.6 (6+7)	0 (2)	9 (3) 9 (1)	180 (4) 180 (8)	13 13	180 (5)	2.7			Red	Gm	2,100	1,200
12Q7	Diode Triode	7-V	12.6 (2+7)	0 (8)	3 (C)	250 (3)	1					Red	Gm	1,200	700
12S8	Triple Diode Triode	A93	12.6 (7+8)	0 (2)	2 (C)	250 (6)	1					Red	Gm	1,200	700
12SA7	Converter	8-R	12.6 (2+7)	Same as 6SA7											
12SC7	Twin Triode (Sec. 1) (Sec. 2)	8-S	12.6 (7+8)	0 (6)	2 (3) 2 (4)	250 (2) 250 (5)	2 2					Red	Gm	1,200	700
12SF5	Triode	6-AB	12.6 (7+8)	0 (2)	2 (3)	250 (5)	1					Red	Gm	1,500	900
12SF7	Diode Pentode	7-AZ	12.6 (7+8)	0 (3)	1 (2)	250 (6)	12.5	100 (4)	3			Red	Gm	2,000	1,200
12SG7	Pentode	8-BK	12.6 (2+7)	0 (5)	2.5 (4)	250 (8)	9.2	150 (6)	3.4			Red	Gm	4,000	2,200
12SH7	Pentode	8-BK	12.6 (2+7)	0 (5)	1 (4)	250 (8)	10	150 (6)	4			Red	Gm	4,000	2,200
						250 (8)	3	100 (6)	1			Red	Gm	1,600	1,000

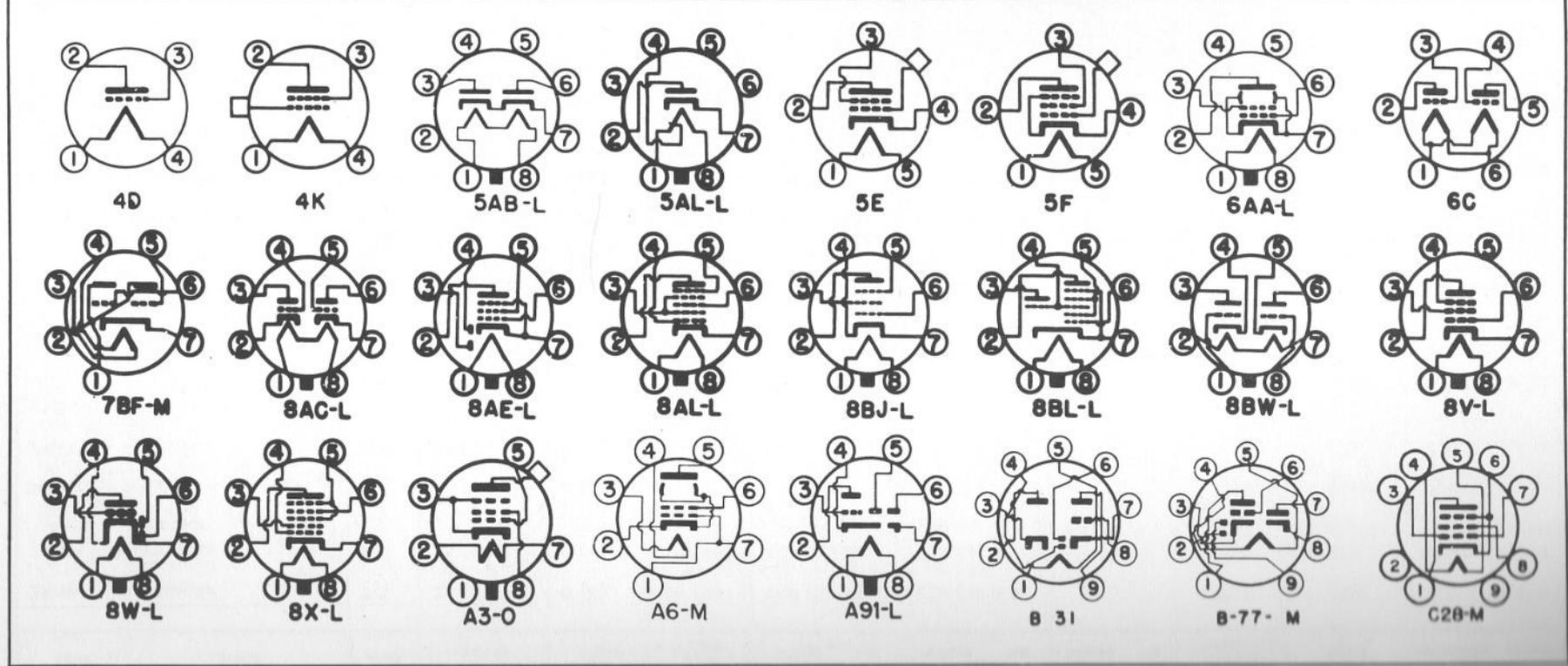
12SK7	Pentode	8-N	12.6 (2+7)	0 (3+8)	3 (4)	250 (8) 9	100 (6) 2.6	Red	Gm	2,000	1,200
12SL7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	12.6 (7+8)	Same as 6SL7							
12SN7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	12.6 (7+8)	Same as 6SN7							
12SQ7	Diode Triode	8-Q	12.6 (7+8)	0 (3)	2 (2)	250 (6) 1.1		Red	Gm	1,200	750
12SR7	Diode Triode	8-Q	12.6 (7+8)	0 (3)	9 (2)	250 (6) 9.5		15	Gm	1,900	1,000
12SW7	Diode Triode	8-Q	12.6 (7+8)	0 (3)	9 (2)	250 (6) 9.5		15	Gm	1,900	1,000
12SX7	Twin Triode (Sec. 1) (Sec. 2)	8-BD	12.6 (7+8)	0 (3+6)	8 (1) 8 (4)	250 (2) 9 250 (5) 9		Red	Gm	2,600	1,400
12SY7	Converter	8-R	12.6 (2+7)	0 (1+ 5+8)		100 (3+4) 27		15	Gm	4,400	2,400
12Z3	Rectifier	4-G	12.6 (1+4)	0 (3)		15 (2)		Red	Emission	100 Ma	70 Ma
14A4	Triode	5-AC	12.6 (1+8)	0 (7)	8 (6)	250 (2) 9		Red	Gm	2,600	1,400



A — Acorn      L — Loctal      M — Miniature      O — Octal      SM — Subminiature

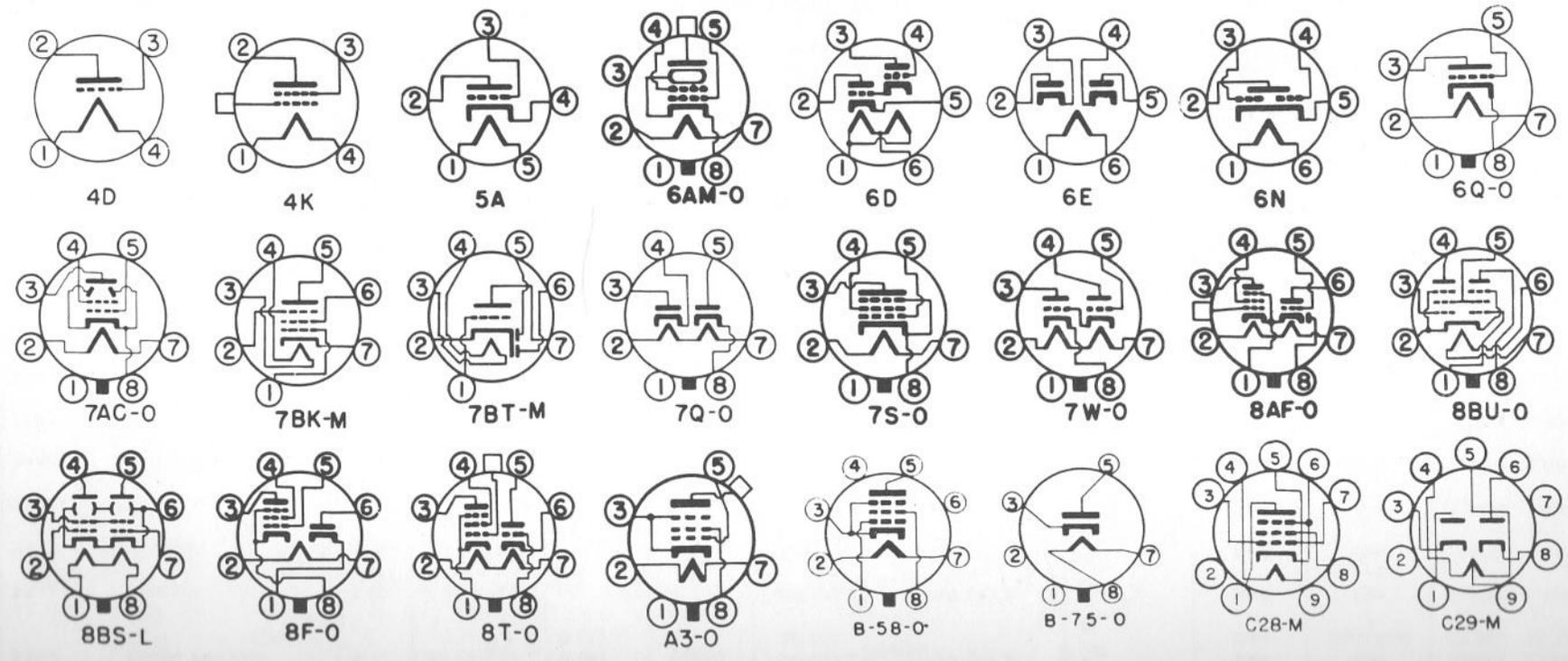
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
14A5	Pentode	6-AA	12.6 (1+8)	0 (7)	12.5 (6)	250 (2)	30	250 (3)	3.5			Red	Gm	3,000	1,900
14A7	Pentode	8-V	12.6 (1+8)	0 (7)	3 (6)	250 (2)	9	100 (3)	2.6	0 (4)		Red	Gm	2,000	1,200
14AF7	Twin Triode (Sec. 1) (Sec. 2)	8-AC	12.6 (1+8)	0 (2+7)	10 (4) 10 (5)	250 (3)	9 250 (6) 9					15	Gm	2,100	1,200
14B6	Diode Triode	8-W	12.6 (1+8)	0 (7)	2 (3)	250 (2)	1					Red	Gm	1,100	600
14B8	Converter	8-X	12.6 (1+8)	0 (7+6)	2 (4)	250 (3+2)	6.6	50 (5)	1.6			3.5	Gm	2,300	1,600
14C5	Pentode	6-AA	12.6 (1+8)	0 (7)	13 (6)	300 (2)	32	225 (3)	2.7			Red	Gm	3,750	2,500
14C7	Pentode	8-V	12.6 (1+8)	0 (7)	3 (6)	250 (2)	2.2	100 (3)	0.7	0 (4)		Red	Gm	1,500	1,000
14E6	Diode Triode	8-W	12.6 (1+8)	0 (7)	9 (3)	250 (2)	9.5					15	Gm	1,900	1,100
14E7	Diode Pentode	8-AE	12.6 (1+8)	0 (7)	3 (6)	250 (2)	7.5	100 (5)	1.6			Red	Gm	1,300	750
14F7	Twin Triode (Sec. 1) (Sec. 2)	8-AC	12.6 (1+8)	0 (2+7)	2 (4) 2 (5)	250 (3)	2.3 250 (6) 2.3					Red	Gm	1,600	900
14F8	Twin Triode (Sec. 1) (Sec. 2)	8-BW	12.6 (2+7)	500 (4+5)	0 (1) 0 (8)	250 (3)	6 250 (6) 6					Red	Gm	3,300	2,000
14H7	Pentode	8-V	12.6 (1+8)	180 (7)	0 (6)	250 (2)	10	150 (3)	3.2	0 (4)		Red	Gm	4,000	2,400
14J7	Converter	8-BL	12.6 (1+8)	Same as 7J7											
14N7	Twin Triode (Sec. 1) (Sec. 2)	8-AC	12.6 (1+8)	0 (2+7)	8 (4) 8 (5)	250 (3)	9 250 (6) 9					Red	Gm	2,600	1,400
14Q7	Converter	8-AL	12.6 (1+8)	0 (5+7)	3 (4+6)	125 (2)	2	75 (3)				5	Gm	1,700	1,200
14R7	Diode Pentode	8-AE	12.6 (1+8)	0 (7)	1 (6)	250 (2)	5.7	100 (5)	2.1			Red	Gm	3,200	1,900
14S7	Converter	8-BL	12.6 (1+8)	Same as 7S7											
14W7	Pentode	8-BJ	12.6 (1+8)	150 (7)	0 (6)	300 (2)	10	150 (3)	4	0 (5)		Red	Gm	5,800	3,500
14X7	Diode Triode	A91	12.6 (1+8)	0 (2+7)	1 (3)	250 (2)	1.9					Red	Gm	1,500	900
14Y4	Rectifier (P-1) (P-2)	5-AB	12.6 (1+8)	0 (7)		20 (3) 20 (6)						Red	Emission	60 Ma	35 Ma
14Z3	Rectifier	5-AL	12.6 (1+8)	0 (7)		15 (2)						Red	Emission	100 Ma	70 Ma
15	Pentode	5-F	2 (1+5)	0 (4)	1.5 (C)	155 (2)	1.8	65 (3)	0.3			Red	Gm	750	400

19	Twin Triode (Sec. 1) (Sec. 2)	6-C	2 (1+6)		0 (3+4) 0 (4)	135 (2+5)7 135 (5) 7		Red	Gm	1,400	1,000
19AQ5	Pentode	A6	19 (3+4)	0 (2)	12.5 (7)	250 (5) 45	250 (6) 4.5	Red	Gm	4,100	2,500
19BK5	Pentode	C28	19 (4+5)	0 (6)	5 (3)	250 (1) 35	250 (8) 3.5	Red	Gm	9,500	5,000
19BG6	Pentode	A3	19 (2+7)	0 (3)	12 (5)	250 (C) 80	250 (8) 6	Red	Gm	6,000	4,000
19C8	Diode Triode	B31	19 (4+5)	0 (7)	1 (8)	100 (9) 0.5		Red	Gm	1,200	700
19J6	Twin Triode (Sec. 1) (Sec. 2)	7-BF	19 (3+4)	150 (7)	0 (5) 0 (6)	100 (1) 8.5 100 (4) 8.5		Red	Gm	5,300	3,000
19T8	Diode Triode	B31	19 (4+5)	0 (7)	3 (8)	250 (9) 1		Red	Gm	1,200	700
19V8	Diode Triode	B77	19 (4+5)	0 (3)	3 (6)	250 (1) 1		Red	Gm	1,200	700
20	Triode	4-D	3.3 (1+4)		22.5 (3)	135 (2) 6.5		3.5	Gm	525	300
22	Tetrode	4-K	3.3 (1+4)		1.5 (C)	135 (2) 3.7	67 (3) 1.3	Red	Gm	500	300
24	Tetrode	5-E	2.5 (1+5)	0 (4)	3 (C)	250 (2) 4	90 (3) 1.7	Red	Gm	650	400



TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
25A6	Pentode	7-S	25 (2+7)	0 (8)	18 (5)	160 (3)	33	120 (4)	6.5			Red	Gm	2,375	1,400
25A7	Pentode (Diode)	8-F	25 (2+7)	0 (8) 0 (1)	15 (5)	100 (3)	20 13 (6)	100 (4)	4			Red Red	Gm Emission	1,800 70 Ma	1,000 50 Ma
25AC5	Triode	6-Q	25 (2+7)	0 (8)		110 (3)	45	15 (5)	7			Red	Gm	3,800	2,200
25AV5	Pentode	B58	25 (2+7)	0 (3)	22.5 (1)	250 (5)	55	150 (8)	2.1			Red	Gm	5,800	3,200
25B5	Direct Coupled Triode	6-D	25 (1+6)	0 (5)	0 (4)	180 (2)	46	100 (3)	5.8			Red	Gm	2,300	1,400
25B6	Pentode	7-S	25 (2+7)	0 (8)	23 (5)	200 (3)	62	135 (4)	1.8			Red	Gm	5,000	3,000
25B8	Triode Pentode (Triode) (Pentode)	8-T	25 (2+7)	0 (6) 0 (1)	1 (8) 3 (C)	100 (5)	0.6 100 (3) 7.5	100 (4)	2			Red Red	Gm Gm	1,500 2,000	800 1,200
25BK5	Pentode	C28	25 (4+5)	0 (6)	5 (3)	250 (1)	35	250 (8)	3.5			Red	Gm	9,500	5,000
25BQ6	Pentode	6-AM	25 (2+7)	0 (8)	22.5 (5)	250 (C)	55	150 (4)	2.1			Red	Gm	5,000	3,000
25CD6	Pentode	A3	25 (2+7)	0 (3)	22.5 (5)	(C)		(8)	2.3			Red	Gm		
25C6	Pentode	7-AC	25 (2+7)	0 (8)	14 (5)	200 (3)	61	135 (4)	2.2			Red	Gm	7,100	4,200
25D8	Diode Triode Pent. (Pentode) (Triode)	8-AF	25 (2+7)	0 (1) 0 (1)	3 (C) 1 (5)	100 (3)	8.5 100 (6) 0.5	100 (4)	2.7			Red Red	Gm Gm	1,900 1,100	1,200 600
25L6	Pentode	7-AC	25 (2+7)	0 (8)	8 (5)	200 (3)	50	110 (4)	2			Red	Gm	7,500	4,500
25N6	Direct Coupled Triode	7-W	25 (2+7)	0 (5+8)	0 (3)	180 (4)	46	100 (3)	5.8			Red	Gm	2,300	1,200
25W4	Rectifier	B15	25 (7+8)	0 (3)		10 (5)						Red	Emission	100 Ma	80 Ma
25Y5	Rectifier (P-1) (P-2)	6-E	25 (1+6)	0 (3+4)		14 (2) 14 (5)						Red	Emission	75 Ma	50 Ma
25Z5	Rectifier (P-1) (P-2)	6-E	25 (1+6)	0 (3+4)		14 (2) 14 (5)						Red	Emission	75 Ma	50 Ma
25Z6	Rectifier (P-1) (P-2)	7-Q	25 (2+7)	0 (4+8)		14 (3) 14 (5)						Red	Emission	75 Ma	50 Ma
26	Triode	4-D	1.5 (1+4)		14.5 (3)	180 (2)	6.2					Red	Gm	1,100	600
26A6	Pentode	7-BK	26.5 (3+4)	125 (7)	0 (1)	250 (5)	11	100 (6)	4	0 (2)		Red	Gm	4,000	2,200
26A7	Twin Pentode (Sec. 1) (Sec. 2)	8-BU	26.5 (6+7)	0 (2)	4.5 (1) 4.5 (3)	26.5 (4)	20 26.5 (8) 20	26.5 (5)	1.5			Red	Gm	6,000	3,000

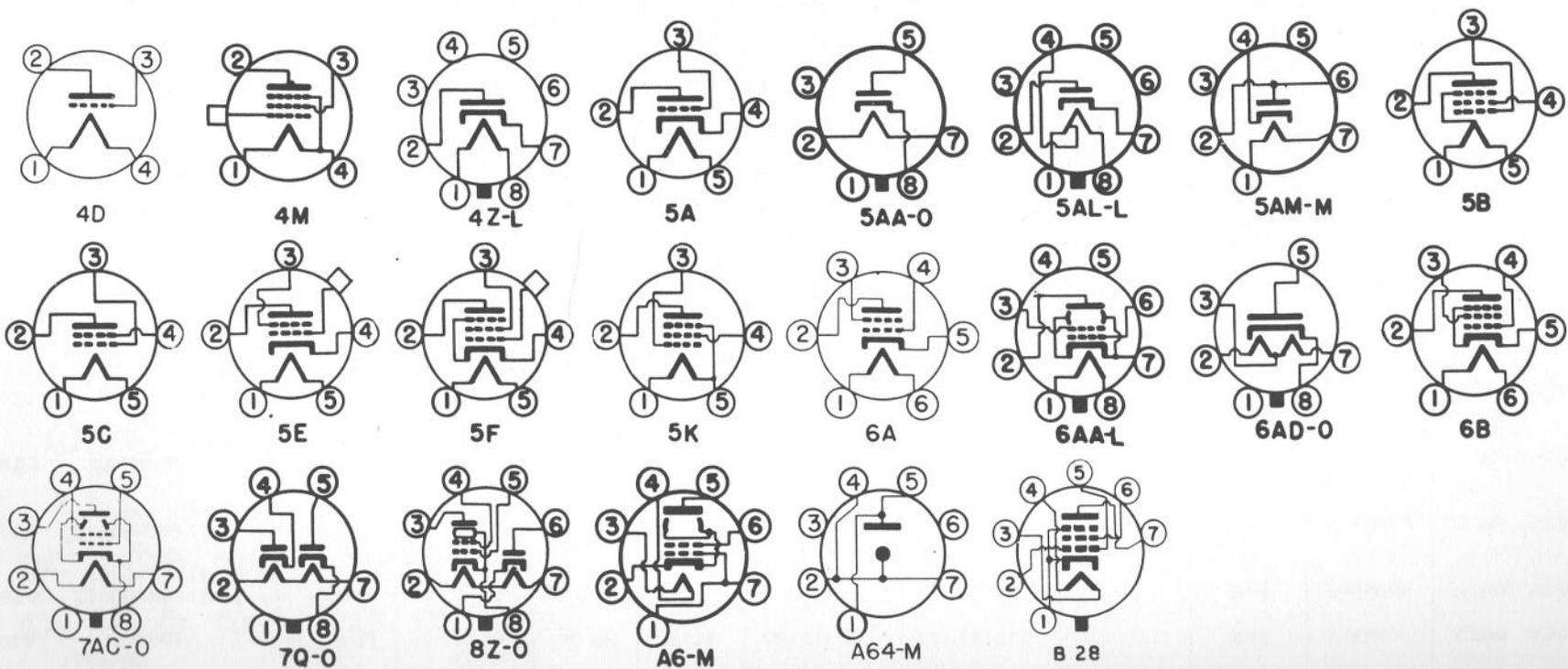
26C6	Diode Triode	7-BT	26.5 (3+4)	0 (2)	9 (1)	250 (7) 9.5			15	Gm	1,900	1,200
26CG6	Pentode	7-BK	26.5 (3+4)	0 (7)	8 (1)	250 (5) 9	150 (6) 2.3	0 (2)	Red	Gm	2,000	1,200
26Z5W	Rectifier (P-1) (P-2)	C29	26.5 (4+5)	0 (3+8)		25 (1) 25 (6)			Red	Emission	100 Ma	70 Ma
27	Triode	5-A	2.5 (1+5)	0 (4)	21 (3)	250 (2) 5.2			10	Gm	1,000	600
28D7	Twin Pentode (Sec. 1) (Sec. 2)	8-BS	28 (1+8)	0 (6)	3.5 (2) 3.5 (7)	28 (4) 12.5 28 (5) 12.5	28 (3) 1		Red	Gm	3,400	2,000
29	Triode	6-N	2.5 (1+6)	0 (5)	3 (3+4)	180 (2) 4.5			Red	Gm	1,400	1,000
30	Triode	4-D	2 (1+4)		13.5 (3)	180 (2) 3.1			10	Gm	900	500
31	Triode	4-D	2 (1+4)		30 (3)	180 (2) 12.5			3.5	Gm	1,000	600
32	Tetrode	4-K	2 (1+4)		3 (C)	180 (2) 1.7	67 (3) 0.5		Red	Gm	650	350



Tube Data Charts

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASURE- MENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
32L7	Diode Pentode (Diode)	8-Z	32 (2+7)	0 (8) 0 (1)	7 (5)	90 (3) 27 10 (6)		90 (4) 2				Red Red	Gm Emission	4,800 60 Ma	2,400 35 Ma
33	Pentode	5-K	2 (1+5)		18 (3)	180 (2) 22		180 (4) 5				Red	Gm	1,700	1,100
34	Pentode	4-M	2 (1+4)		3 (C)	180 (2) 2.8		65 (3) 1				Red	Gm	600	350
35/51	Pentode	5-E	2.5 (1+5)	0 (4)	3 (C)	250 (2) 6.5		90 (3) 2.5				Red	Gm	1,000	600
35A5	Pentode	6-AA	35 (1+8)	180 (7)	0 (6)	200 (2) 43		125 (3) 2				Red	Gm	6,100	3,000
35B5	Pentode	A6	35 (3+4)	0 (2)	7.5 (1)	110 (5) 40		110 (6) 3				Red	Gm	5,800	3,500
35C5	Pentode	B28	35 (3+4)	0 (1)	7.5 (2)	110 (7) 40		110 (6) 3				Red	Gm	5,800	3,500
35L6	Pentode	7-AC	35 (2+7)	180 (8)	0 (5)	200 (3) 43		125 (4) 2				Red	Gm	6,100	3,500
35W4	Rectifier	A64	35 (3+4)	0 (7)		11 (5)						Red	Emission	100 Ma	70 M
35Y4	Rectifier	5-AL	35 (1+8)	0 (7)		10 (2)						Red	Emission	100 Ma	70 Ma
35Z3	Rectifier	4-Z	35 (1+8)	0 (7)		12 (2)						Red	Emission	100 Ma	70 Ma
35Z4	Rectifier	5-AA	35 (2+7)	0 (8)		11 (5)						Red	Emission	100 Ma	70 Ma
35Z5	Rectifier	6-AD	35 (2+7)	0 (8)		11 (5)						Red	Emission	100 Ma	70 Ma
35Z6	Rectifier (P-1) (P-2)	7-Q	35 (2+7)	0 (4+8)		14 (3) 14 (5)						Red	Emission	75 Ma	50 Ma
36	Tetrode	5-E	6.3 (1+5)	0 (4)	3 (C)	250 (2) 3.2		90 (3) 1.7				Red	Gm	1,100	600
37	Triode	5-A	6.3 (1+5)	0 (4)	18 (3)	250 (2) 7.5						10	Gm	1,100	600
38	Pentode	5-F	6.3 (1+5)	0 (4)	25 (C)	250 (2) 22		250 (3) 3.8				Red	Gm	1,200	650
39/44	Pentode	5-F	6.3 (1+5)	0 (4)	3 (C)	250 (2) 5.8		90 (3) 1.4				Red	Gm	1,100	650
40	Triode	4-D	5 (1+4)		3 (3)	180 (2) 0.2						Red	Gm	200	100
41	Pentode	6-B	6.3 (1+6)	0 (5)	21 (4)	300 (2) 25		250 (3) 4				Red	Gm	2,100	1,100
42	Pentode	6-B	6.3 (1+6)	0 (5)	20 (4)	285 (2) 38		285 (3) 7				Red	Gm	2,600	1,500
43	Pentode	6-B	2.5 (1+6)	0 (5)	18 (4)	160 (2) 33		120 (3) 6.5				Red	Gm	2,300	1,200
45	Triode	4-D	2.5 (1+4)		55 (3)	275 (2) 37						3.5	Gm	2,600	1,200

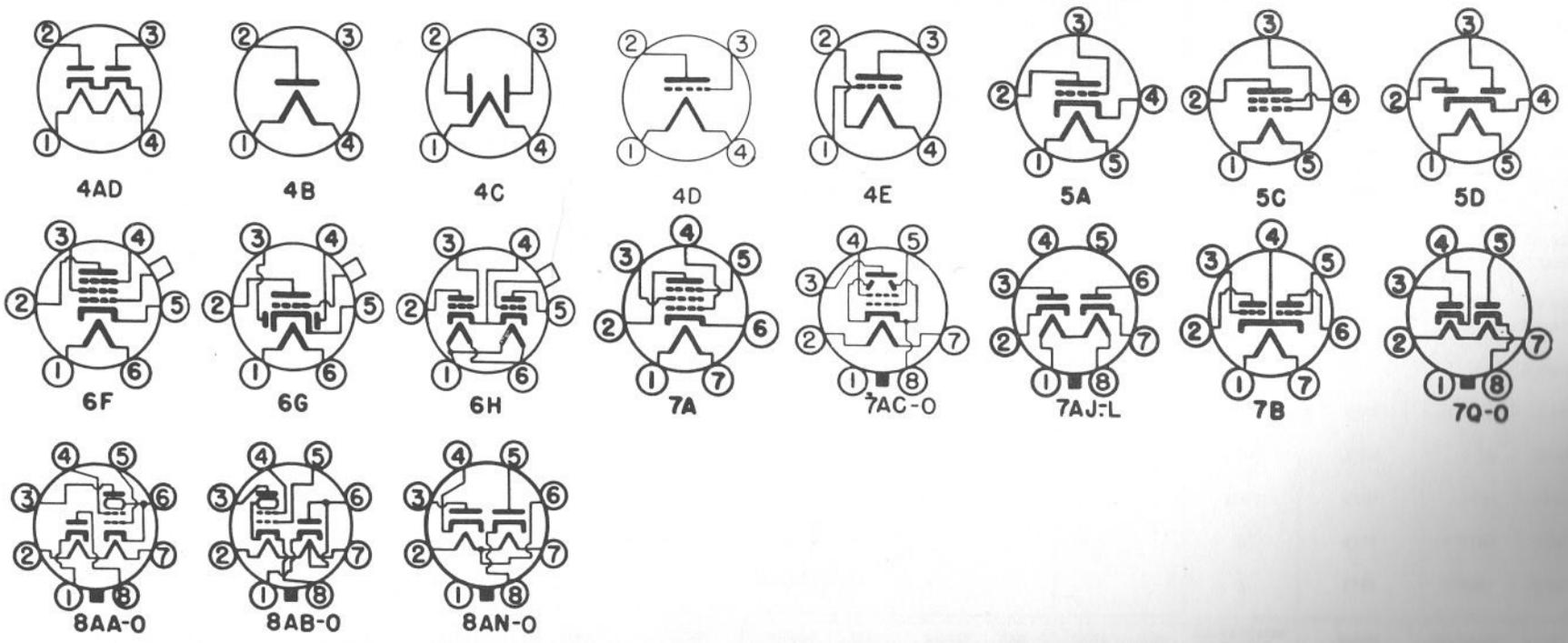
45Z3	Rectifier	5-AM	45 (1+7)	0 (4)	20 (2)		Red	Emission	100 Ma	70 Ma	
45Z5/- 40Z5	Rectifier	6-AD	45 (2+7)	0 (8)	10 (5)		Red	Emission	100 Ma	70 Ma	
46	Tetrode	5-C	2.5 (1+5)		33 (3)	250 (2+4) 22	5	Gm	2,300	1,400	
47	Pentode	5-B	2.5 (1+5)		16.5 (3)	250 (2) 31	250 (4) 6	Red	Gm	2,500	1,500
48	Tetrode	6-A	30 (1+6)	0 (5)	20 (4)	125 (2) 56	100 (3) 9.5	Red	Gm	3,900	2,300
49	Tetrode	5-C	2 (1+5)		20 (3)	135 (2) 6	135 (4)	5	Gm	1,100	600
50	Triode	4-D	7.5 (1+4)		54 (3)	300 (2) 35		3.5	Gm	1,900	1,200
50A5	Pentode	6-AA	50 (1+8)	180 (7)	0 (6)	200 (2) 46	125 (3) 2.2	Red	Gm	8,000	4,500
50B5	Pentode	A6	50 (3+4)	0 (2)	7.5 (1)	110 (5) 49	110 (6) 4	Red	Gm	7,500	4,000
50C5	Pentode	B28	50 (3+4)	0 (1)	7.5 (2)	110 (7) 49	110 (6) 4	Red	Gm	7,500	4,000
50C6	Pentode	7-AC	50 (2+7)	0 (8)	13.5 (5)	135 (3) 58	135 (4) 3.5	Red	Gm	7,000	4,000



A — Acorn                      L — Loctal                      M — Miniature                      O — Octal                      SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
50L6	Pentode	7-AC	50 (2+7)	180 (8)	0 (5)	200 (3)	46	125 (4)	2.2			Red	Gm	8,000	4,500
50X6	Rectifier (P-1) (P-2)	7-AJ	50 (1+8)	0 (2+7)		15 (3) 15 (6)						Red	Emission	75 Ma	50 Ma
50Y6	Rectifier (P-1) (P-2)	7-Q	50 (2+7)	0 (4+8)		14 (3) (5)						Red	Emission	75 Ma	50 Ma
50Y7	Rectifier (P-1) (P-2)	8-AN	50 (2+7)	0 (4+8)		15 (3) (5)						Red	Emission	75 Ma	50 Ma
50Z7	Rectifier (P-1) (P-2)	8-AN	50 (2+7)	0 (4+8)		14 (3) (5)						Red	Emission	70 Ma	50 Ma
51	See 35/51														
52	Twin Grid Triode	5-C	6.3 (1+5)		0 (3+4)	110 (2)	43					5	Gm	3,000	1,800
53	Twin Triode (Sec. 1) (Sec. 2)	7-B	2.5 (1+7)	0 (4)	6 (3) 6 (5)	300 (2)	3.5 300 (6) 3.5					Red	Gm	3,200	2,000
55	Diode Triode	6-G	2.5 (1+6)	0 (5)	20 (C)	250 (2)	8					7	Gm	1,100	600
56	Triode	5-A	2.5 (1+5)	0 (4)	13.5 (3)	250 (2)	5					15	Gm	1,400	800
57	Pentode	6-F	2.5 (1+6)	0 (5)	3 (C)	250 (2)	2	100 (3)	0.5	0 (4)		Red	Gm	1,200	800
58	Pentode	6-F	2.5 (1+6)	0 (5)	3 (C)	250 (2)	9	100 (3)	2	0 (4)		Red	Gm	1,600	900
59	Pentode	7-A	2.5 (1+7)	0 (6)	28 (4)	250 (2)	35	250 (3)	9	0 (5)		Red	Gm	2,500	1,500
70A7	Diode Pentode	8-AB	70 (2+7)	0 (8)	7.5 (5)	110 (3)	40	100 (4)	3			Red	Gm	5,800	3,500
70L7	Diode Pentode (Diode)	8-AA	70 (2+7)	0 (6) 0 (1)	7.5 (5)	110 (3) 12 (8)	40	110 (4)	3.8			Red	Gm Emission	7,500 70 Ma	4,800 50 Ma
71A	Triode	4-D	5 (1+4)		40 (3)	180 (2)	20					3.5	Gm	1,700	900
75	Diode Triode	6-G	6.3 (1+6)	0 (5)	2 (C)	250 (2)	0.9					Red	Gm	1,100	600
76	Triode	5-A	6.3 (1+5)	0 (4)	13 (3)	250 (2)	5					15	Gm	1,400	800
77	Pentode	6-F	6.3 (1+6)	0 (5)	3 (C)	250 (2)	2.3	100 (3)	0.5	0 (4)		Red	Gm	1,200	750
78	Pentode	6-F	6.3 (1+6)	0 (5)	3 (C)	250 (2)	11	100 (3)	2	0 (4)		Red	Gm	1,400	800
79	Twin Triode (Sec. 1) (Sec. 2)	6-H	6.3 (1+6)	300 (4)	0 (C) 0 (3)	250 (5) (2) 4	4					15	Gm	2,500	1,000
80	Rectifier (P-1) (P-2)	4-C	5 (1+4)			50 (2) 50 (3)						Red	Emission	100 Ma	70 Ma

81	Rectifier	4-B	7.5 (1+4)			55 (2)				Red	Emission	85 Ma	50 Ma
82	Mercury Rectifier (P-1) (P-2)	4-C	2.5 (1+4)			15 (2) 15 (3)				Red	Emission	120 Ma	100 Ma
83	Mercury Rectifier (P-1) (P-2)	4-C	5 (1+4)			15 (2) 15 (3)				Red	Emission	120 Ma	100 Ma
83V	Rectifier (P-1) (P-2)	4-AD	5 (1+4)			15 (2) (3)				Red	Emission	100 Ma	70 Ma
84/6Z4	Rectifier (P-1) (P-2)	5-D	6.3 (1+5)	(4)		20 (2) 15 (3)				Red	Emission	60 Ma	35 Ma
85	Diode Triode	6-G	6.3 (1+6)	0 (5)	20 (C)	250 (2) 8				7	Gm	1,100	750
89	Pentode	6-F	6.3 (1+6)	0 (5)	25 (C)	250 (2) 32	250 (3) 5.5	0 (4)		Red	Gm	1,800	1,000
UV199	Triode	4-E	3.3 (2+4)		4.5 (1)	90 (3) 2.5				7	Gm	425	250
UX199	Triode	4-D	3.3 (1+4)		4.5 (3)	90 (2) 2.5				7	Gm	425	250

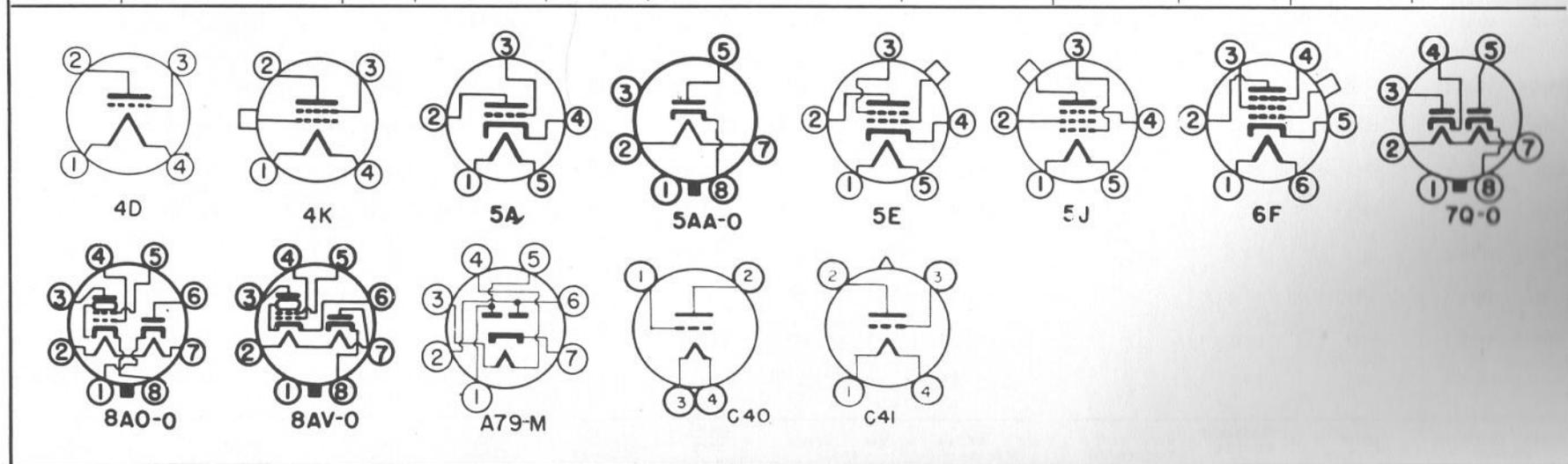


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A — Acorn      L — Loctal      M — Miniature      O — Octal      SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
101-D	Triode	4-D	4.5 (1+4)		6 (3)	130 (2)	11					7	Gm	1,200	650
101-F	Triode	4-D	4.15 (1+4)		4 (3)	130 (2)	11					7	Gm	1,300	750
102-D	Triode	4-D	2.1 (1+4)		3 (3)	160 (2)	0.4					Red	Gm	360	200
102-F	Triode	4-D	2.1 (1+4)		3 (3)	160 (2)	0.5					Red	Gm	520	300
104-D	Triode	4-D	4.5 (1+4)		20 (3)	130 (2)	25					3.5	Gm	1,200	750
112-A	Triode	4-D	5 (1+4)		4.5 (3)	90 (2)	5					7.5	Gm	1,700	1,000
117L7	Diode Pentode (Diode)	8-AO	117 (2+7)	0 (8) 0 (1)	5 (4)	105 (3) 8.5 (6)	43	105 (5)	4			Red	Gm Emission	5,300 75 Ma	3,000 50 Ma
117N7	Diode Pentode	8-AV	117 (2+7)	0 (6) (8)	6 (4)	100 (3) 8.5 (7)	50	100 (5)	5			Red	Gm Emission	7,000 75 Ma	4,000 50 Ma
117P7	Diode Pentode	8-AV	117 (2+7)	0 (6)	5 (4)	105 (3) 8.5 (7)	43	105 (5)	4			Red	Gm Emission	5,300 75 Ma	3,100 50 Ma
117Z3	Rectifier	B79	117 (3+4)	0 (6)		14 (5)						Red	Emission	90 Ma	60 Ma
117Z4	Rectifier	5-AA	117 (2+7)	0 (8)		12 (5)						Red	Emission	75 Ma	50 Ma
117Z6	Rectifier (P-1) (P-2)	7-Q	117 (2+7)	0 (4+8)		10 (3) 10 (5)						Red	Emission	60 Ma	35 Ma
182B	Triode	4-D	5 (1+4)		35 (3)	250 (2)	18					5	Gm	1,500	1,000
183	Triode	4-D	5 (1+4)		60 (3)	250 (2)	30					3.5	Gm	1,700	1,100
205-D	Triode	4-D	4.5 (1+4)		6 (3)	200 (2)	23					7	Gm	1,800	1,000
215-A	Triode	C41	1.1 (1+4)		1 (3)	60 (2)	2					5	Gm	420	200
231-D	Triode	4-D	3.1 (1+4)		3 (3)	90 (2)	2.1					7	Gm	500	300
244-A	Triode	5-A	2 (1+5)	0 (4)	6 (3)	135 (2)	5.5					10	Gm	1,000	600
245-A	Tetrode	5-E	2 (1+5)	0 (4)	1.5 (C)	180 (2)	5	45 (3)	1.5			Red	Gm	770	400
246-A	Tetrode	4-K	3.3 (1+6)		1.5 (C)	185 (2)	1.5	75 (3)				Red	Gm	800	400
247-A	Triode	5-A	2 (1+5)	0 (4)	4 (3)	120 (2)	2.5					15	Gm	900	500
257-A	Triode	4-D	3.1 (1+4)		3 (C)	90 (2)	2.1					7	Gm	500	300
259-A	Tetrode	5-E	2 (1+5)	0 (4)	1.5 (C)	180 (2)	7.5	90 (3)	1.7			Red	Gm	1,500	900
262-A	Triode	4-K	10 (1+4)	0 (3)	4.5 (C)	140 (2)	3.2					15	Gm	950	550

264-B	Triode	4-D	1.5 (1+4)		7 (3)	90 (2) 1.9			7	Gm	600	350
264-C	Triode	4-D	1.5 (1+4)		7 (3)	90 (2) 1.9			7	Gm	550	300
271-A	Triode	5-A	5 (1+5)	0 (4)	25 (3)	300 (2) 19			7	Gm	2,200	1,100
272-A	Triode	5-A	10 (1+5)	0 (4)	10 (3)	120 (2) 7			5	Gm	900	500
274-B	Rectifier (P-1) (P-2)	4-D	5 (1+4)			35 (2) 35 (3)			Red	Emission	100 Ma	80 Ma
275-B	Triode	4-D	5 (1+4)		55 (3)	200 (2) 15			3.5	Gm	1,700	1,000
283-A	Tetrode	5-E	2 (1+5)	0 (4)	1.5 (C)	180 (2) 6	75 (3) 1.6		Red	Gm	1,300	800
285-A	Pentode	5-E	2 (1+5)	0 (4)	10.5 (C)	135 (2) 7.5	135 (3) 1.1		Red	Gm	850	400
300-B	Triode	4-D	5 (1+4)		42 (3)	200 (2) 30			3.5	Gm	5,500	3,000
307-A	Pentode	5-J	5.5 (1+5)		15 (3)	200 (C) 36	200 (2) 3.5	0 (4)	Red	Gm	3,500	2,000
309-A	Pentode	5-E	10 (1+5)	0 (4)	1.5 (C)	180 (2) 5	75 (3) 1.1		Red	Gm	1,100	600
310-A	Pentode	6-F	10 (1+6)	0 (5)	3 (C)	180 (2) 5.5	135 (3) 2	0 (4)	Red	Gm	1,600	850
311-A	Pentode	5-E	10 (1+5)	0 (4)	15 (C)	135 (2) 30	135 (3) 7		Red	Gm	2,800	1,200
313CA	Gas Triode	4-D		0 (1)	Starter Anode (4) To plate (2) Using Resistor Cord. Firing Volts 170; Working Volts 85				Red	Regulation	85 V.	110 V.
316A	Triode	C40	2 (1+4)		(3)	300 (2) 40			8	Gm	1,800	1,200
328-A	Pentode	6-F	7.5 (1+6)	0 (5)	3 (C)	135 (2) 5.5	135 (3) 2	0 (4)	Red	Gm	1,600	900



A — Acorn

L — Loctal

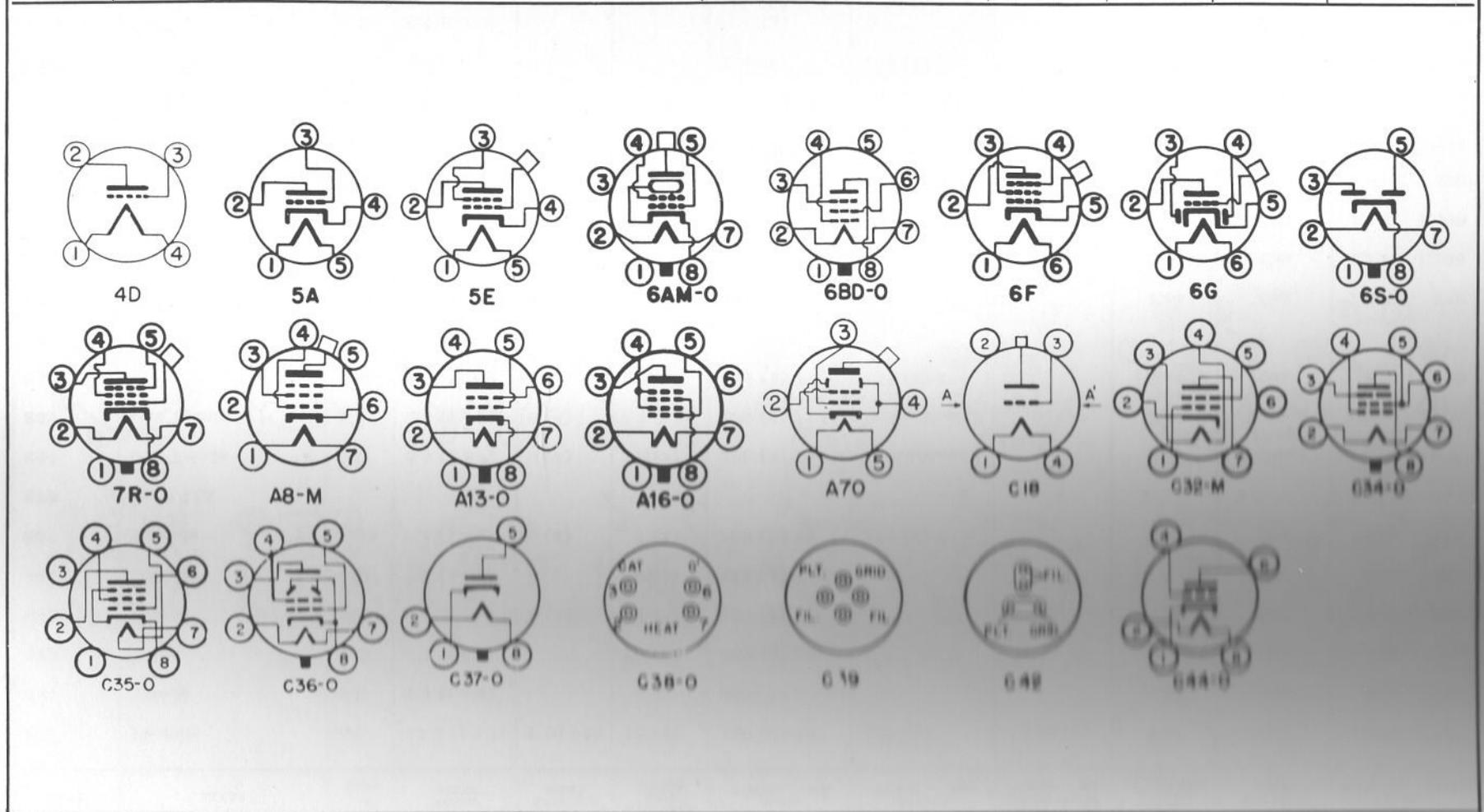
M — Miniature

O — Octal

SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASURE- MENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
329-A	Pentode	5-E	7.5 (1+6)	0 (5)	15 (C)	135 (2)	30	135 (3)	7			Red	Gm	2,800	1,200
336-A	Pentode	6-F	10 (1+6)	0 (5)	8 (4)	180 (2)	28	180 (3)	7			Red	Gm	4,200	2,200
337-A	Pentode	6-F	10 (1+6)	0 (5)	3 (C)	135 (2)	63	135 (3)		0 (4)		Red	Gm	1,600	900
339-A	Pentode	5-E	5 (1+5)		32 (3)	250 (C)	70	250 (2)		0 (4)		Red	Gm	4,800	2,400
348-A	Pentode	7-R	6.3 (2+7)	0 (8)	3 (C)	135 (3)	5.5	135 (3)		0 (4)		Red	Gm	1,800	900
349-R	Pentode	7-R	6.3 (2+7)	0 (8)	8 (5)	180 (3)	28	180 (4)				Red	Gm	4,200	2,500
350-B	Tetrode	6-AM	6.3 (2+7)	0 (8)	20 (5)	300 (3)	75	250 (4)				Red	Gm	5,200	3,000
351-A	Rectifier (P-1) (P-2)	6-S	6.3 (2+7)	0 (8)		35 (3) 35 (5)						Red	Emission	100 Ma	80 Ma
357-A	Diode Triode	6-G	10 (1+6)	0 (5)	4.5 (C)	135 (2)	14					15	Gm	800	500
367-A	Tetrode	C35	6.3 (3+5)	0 (6)	18 (4)	300 (1)	53	250 (2)				Red	Gm	6,000	3,500
373-A	Pentode	C34	2 (2+7)		3 (4)	250 (8)	2	150 (6)	0.5	0 (3)		Red	Gm	1,400	900
374-A	Pentode	C34	3 (2+7)		16 (4)	135 (8)	18	135 (6)		0 (3)		Red	Gm	3,000	1,500
375-A	Pentode	C36	20 (2+7)	0 (8)	7.5 (5)	130 (3)	12.5	130 (4)	3.7			Red	Gm	4,700	3,000
381-A	Diode	C37	6.3 (2+8)	0 (1)		10 (5)						Red	Emission	10 Ma	5 Ma
383-A	Triode	C44	6.3 (2+8)	(1)	(4)	120 (6)	4.5					Red	Gm	2,800	1,500
385-A	Pentode	A16	6.3 (2+8)	(1)	(5)	275 (C)	6	130 (3)		0 (7)		Red	Gm	2,500	1,400
387-A	Pentode	A16	6.3 (2+8)	0 (1)	2 (5)	180 (C)	7.5	120 (3)		0 (7)		Red	Gm	4,000	2,500
396-A	See 2C51														
398-A/- 5603	Pentode	6-BD	6.3 (2+7)		(4)	135 (8)	50	135 (6)		0 (3)		Red	Gm	5,400	3,100
485	Triode	5A	3 (1+5)	0 (4)	9 (3)	180 (2)	6					10	Gm	1,400	900
502	Gas Triode	A13	6.3 (2+7)	0 (6+8)	2 (5)	250 (3)	100 (See Instructions.)					Red	Voltage Drop	8 V.	10 V.
546	Gas Tetrode	C32	6.3 (3+4)	0 (2+5)	2 (1)	30 (7)	20 (See Instructions.)					Red	Voltage Drop	11 V.	14 V.
586	Triode	4-D	7.5 (1+4)		54 (3)	300 (2)	35					3.5	Drop Gm	1,900	1,200

703A	Triode	C42	1.2 (1+4)		0 (3)	300 (2) 30 (Use Adapter 703).		8	Gm	1,800	1,000	
707B	Klystron	C38	6.3 (2+7)	Repeller (3)		300 (6) (Use Adapter 707).		Red	Emission	40 Ma	20 Ma	
708A	Triode	C39	1.7 (1+4)		Shell	300 (2) 30 (Use Adapter 708).		10	Gm	2,000	1,000	
801	Triode	4-D	7.5 (1+4)		30 (3)	300 (2) 18		7	Gm	1,600	800	
802	Pentode	6-BM	6.3 (1+7)	0 (6)	20 (4)	250 (C) 25	250 (3)	+40 (5)	Red	Gm	2,200	1,200
807	Pentode	A70	6.3 (1+5)	0 (4)	14 (3)	250 (C) 72	250 (2) 5		Red	Gm	6,000	3,500
809	Triode	C18	6.3 (1+4)		0 (3)	250 (C) 15		Red	Gm	3,000	2,000	



A — Acorn

L — Loctal

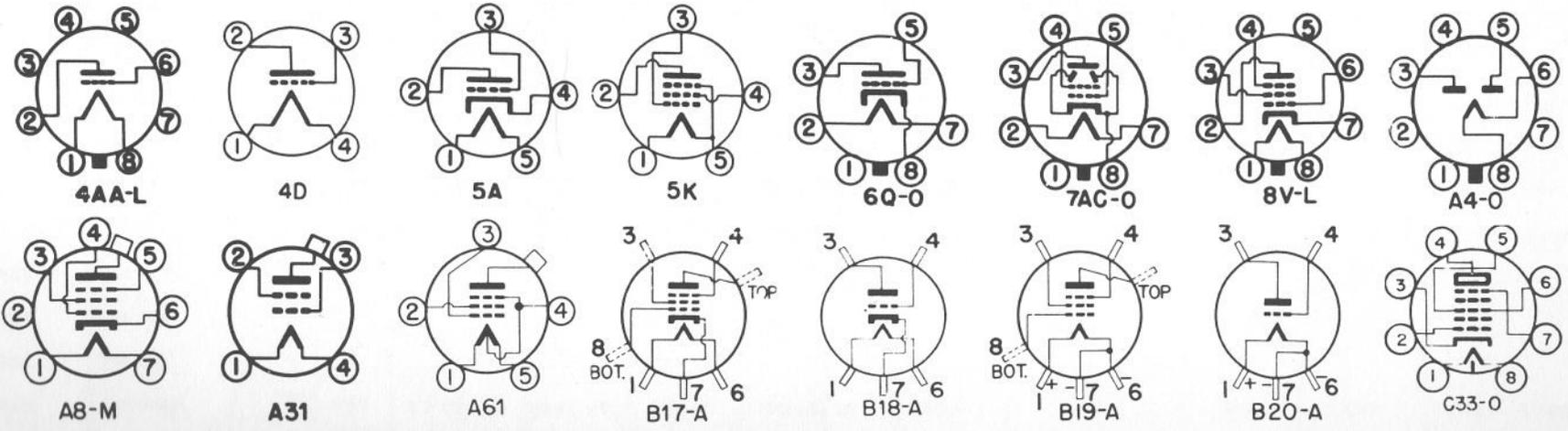
M — Miniature

O — Octal

SM — Subminiature

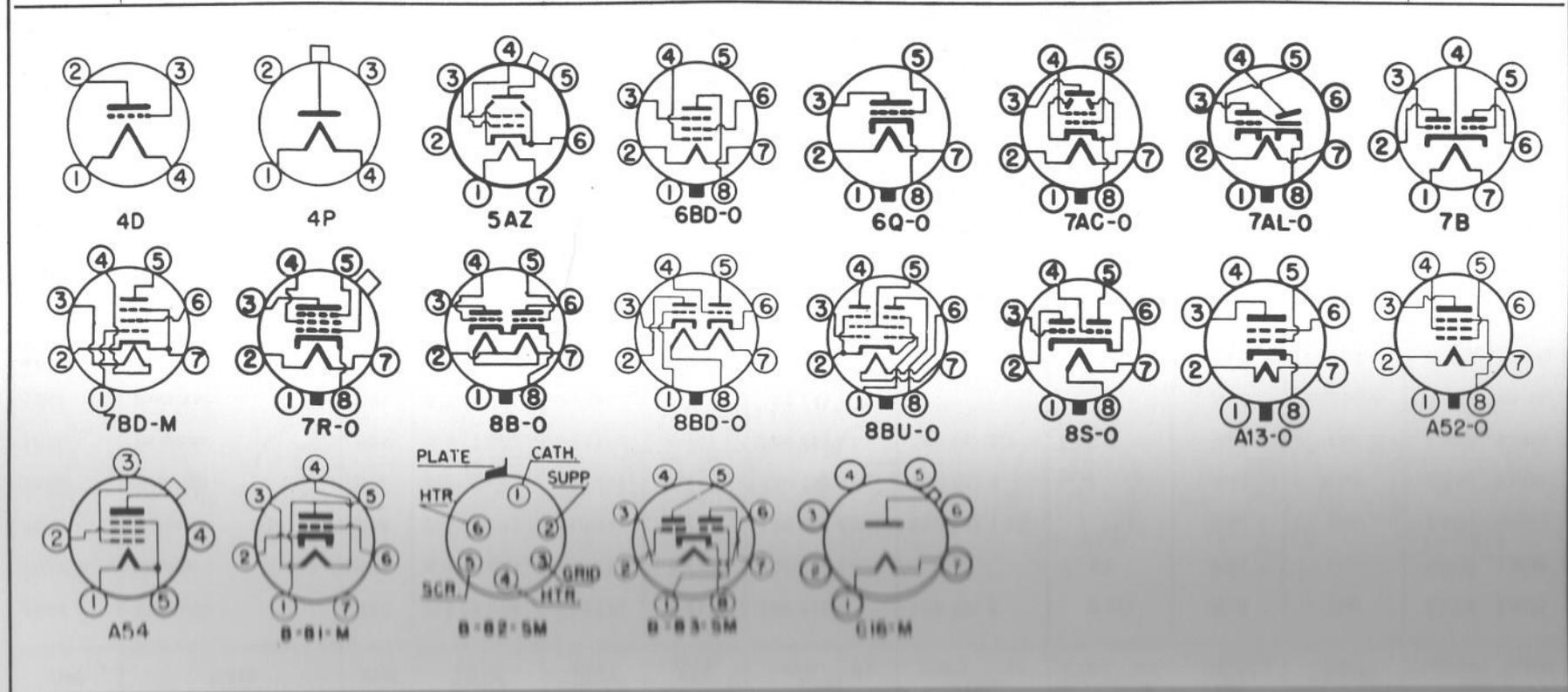
TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
837	Pentode	A8	12.6 (1+7)	0 (6+2)	10 (4)	200 (C) 24		200 (3)		+40 (5)	Red	Gm	4,000	2,500	
841	Triode	4-D	7.5 (1+4)		5 (3)	300 (2) 2					Red	Gm	450	250	
842	Triode	4-D	7.5 (1+4)		50 (3)	300 (2) 35					3.5	Gm	1,200	750	
843	Triode	5-A	7.5 (1+5)	0 (4)	10 (3)	300 (2) 45					5	Gm	3,000	2,000	
864	Triode	4-D	1.1 (1+4)		10 (3)	135 (2) 3					7	Gm	500	300	
865	Tetrode	A-31	7.5 (1+4)	0 (4)	3 (3)	300 (C) 17		175 (2) 7			Red	Gm	700	450	
879	See 2X2A														
884	Gas Triode	6-Q	6.3 (2+7)	0 (8)	3 (5)	200 (3) 75 (See Instructions.)					Red	Voltage Drop Voltage Drop Gm	16 V.	19 V.	
885	Gas Triode	5-A	2.5 (1+5)	0 (4)	3 (3)	200 (2) 75 (See Instructions.)					Red		16 V.	19 V.	
950	Pentode	5-K	2 (1+5)		16 (3)	135 (2) 7		135 (4) 2			Red	Gm	950	500	
951	See 1B4P														
954	Pentode	B17	6.3 (1+6)	0 (4+7)	3 (8)	250 (C1) 2		100 (3) 0.7			Red	Gm	1,400	850	
955	Triode	B18	6.3 (1+6)	0 (7)	7 (4)	250 (3) 7					Red	Gm	2,200	1,200	
956	Pentode	B17	6.3 (1+6)	0 (4+7)	3 (8)	250 (C1) 7		100 (3) 3			Red	Gm	1,800	1,000	
957	Triode	B20	1.25 (1+6)		5 (4)	135 (3) 2					15	Gm	650	400	
958	Triode	B20	1.25 (1+6)		7.5 (4)	135 (3) 3					10	Gm	1,200	750	
959	Pentode	B19	1.25 (1+6)		3 (8)	135 (C1) 1.7		67 (3) 0.4		0 (3)	Red	Gm	600	350	
FM1000	Converter	C33	6.3 (1+8)	5 (3+7)	(2+6)	250 (4)		100 (5) 2.5			15	Gm	800	400	
CK1005	Gas Rectifier (P-1) (P-2)	A4	6.3 (6+8)			(3) (5)					Red	Emission	Ma	Ma	
E1148	Triode		6.3 (2+7)	0 (8)	12.5 (C1)	300 (C2) 20					Red	Gm	3,500	2,000	
1201	See 7E5														
1203	See 7C4														
1204	See 7AB7														
1231	Pentode	8-V	6.3 (1+8)	0 (7+4)	3 (6)	300 (2) 2		150 (3) 2.5			Red	Gm	5,500	3,000	
1232	Pentode	8-V	6.3 (1+8)	0 (7+4)	2 (6)	250 (2) 6		100 (3) 2			Red	Gm	4,500	2,500	

HY1269	Pentode	A61	12 (1+5)		15 (3)	250 (C) 72	250 (2) 5		Red	Gm	6,000	3,500
1273	See 14C7	8-V	6.3 (1+8)									
1280	See 7C7	8-V	12.6 (1+8)									
1284	Pentode	8V	12.6 (1+8)	0 (7+4)	3 (6)	250 (2) 9	100 (3) 2.5		Red	Gm	2,000	1,000
1291	See 3B7											
1293	Triode	4-AA	1.4 (1+8)		0 (6)	90 (2) 5.2			15	Gm	1,500	900
1294	See 1R4											
1299	See 3D6											
1603	See 6C6											
1609	Pentode	5-K	1.1 (1+5)		1.5 (3)	135 (2) 2.5	65 (4) 0.6		Red	Gm	725	400
1612	See 6L7											
1613	Pentode	7AC	6.3 (2+7)	0 (8)	20 (5)	300 (3) 40	300 (4) 7		Red	Gm	2,500	1,200



TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR VOLTS MA	AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA				NOMINAL	REJECT
1614	Pentode	7-AC	6.3 (2+7)	0 (8)	15 (5)	300 (3)	75	250 (4)	5		Red	Gm	5,000	3,500
1616	Rectifier	4-P	2.5 (1+4)			60 (C)	100				Red	Emission	100 Ma	70 Ma
1619	Pentode	A52	2.5 (2+7)	0 (5+8)	10 (5)	300 (3)	44	250 (4)	5		Red	Gm	4,500	3,000
1620	See 6J7													
1621	See 6F6													
1622	See 6L6													
1623	Triode	4-D	6.3 (1+4)		0 (3)	300 (4)	30				Red	Gm	5,000	3,000
1624	Pentode	A54	6.3 (1+4)		5 (3)	300 (C)	75	250 (2)	10		Red	Gm	4,000	2,500
1625	Pentode	5-AZ	12.6 (1+5)	0 (6)	14 (4)	250 (C)	72	250 (3)	4		Red	Gm	6,000	3,500
1626	Triode	6-Q	12.6 (2+7)	0 (8)	32 (5)	250 (3)	25				5	Gm	2,100	1,000
1629	See 6E5	7-AL	12.6 (2+7)											
1631	See 6L6	7-AC	12.6 (2+7)											
1632	See 25L6	7-AC	12.6 (2+7)											
1633	See 6SN7	8-BD	25 (7+8)											
1634	See 12SC7	8-S	12.6 (7+8)											
1635	Twin Triode (Sec. 1) (Sec. 2)	8B	6.3 (2+7)	0 (8)	0 (4) 0 (5)	300 (3) 300 (6)	3.6				Red	Gm	1,500	900
1642	See 2C21													
1644	See 12L8	8-BU	12.6 (6+7)											
1654	Rectifier	C16	1.4 (1+7)			40 (C)					Red	Emission	1 Ma	0.5 Ma
1851	Pentode	7-R	6.3 (2+7)	0 (8)	2 (C)	300 (3)	10	150 (4)	2.5	0 (5)	Red	Gm	9,000	5,400
1852	See 6AC7													
1853	See 6AB7													
2050	Gas Tetrode	A13	6.3 (2+7)	0 (6+8)	(5)	250 (3)	100 (See Instructions.)				Red	Voltage Drop	8 V.	11 V.
2051	Gas Tetrode	A13	6.3 (2+7)	0 (6+8)	(5)	200 (3)	75 (See Instructions.)				Red	Voltage Drop	8 V.	11 V.
5556	Triode	4-D	5 (1+4)		20 (3)	300 (2)	15				7	Gm	1,300	750

5590/- 401A	Pentode	7-BD	6.3 (3+4)	750 (7)	0 (1)	90 (5) 4	90 (6) 1.5		Red	Gm	2,000	1,000
5591/- 403B	Pentode	7-BD	6.3 (3+4)	200 (7)	0 (1)	180 (5)	120 (6) 2.5		Red	Gm	5,100	3,000
5603/- 398A	Pentode	6-BD	6.3 (2+7)		12 (4)	135 (8) 50	135 (6) 5	0 (3)	Red	Gm	6,500	4,000
5608	Pentode	7-BD	6.3 (3+4)	0 (7)	12 (1)	120 (5) 7.5	120 (6) 2		Red	Gm	5,000	3,000
5608A	Twin Triode (Sec. 1) (Sec. 2)	7-B	2.5 (1+7)	0 (4)	6 (3) 6 (5)	300 (2) 6 300 (5) 6			Red	Gm	2,400	1,000
5610	Triode	B81	6.3 (3+4)	0 (2)	1.5 (6)	90 (5) 17			15	Gm	4,000	2,400
5633	Pentode	B82	6.3 (4+6)	150 (1)	0 (3)	100 (C) 7	100 (5) 2.8		Red	Gm	3,400	2,100
5634	Pentode	B82	6.3 (4+6)	150 (1)	0 (3)	100 (C) 4.5	100 (5) 2.5		Red	Gm	3,500	2,100
5635	Twin Triode (Sec. 1) (Sec. 2)	B83	6.3 (3+6)	100 (8)	0 (1) 0 (2)	100 (5) 4.8 100 (7) 4.8			Red	Gm	3,800	2,400



A — Acorn

L — Localt

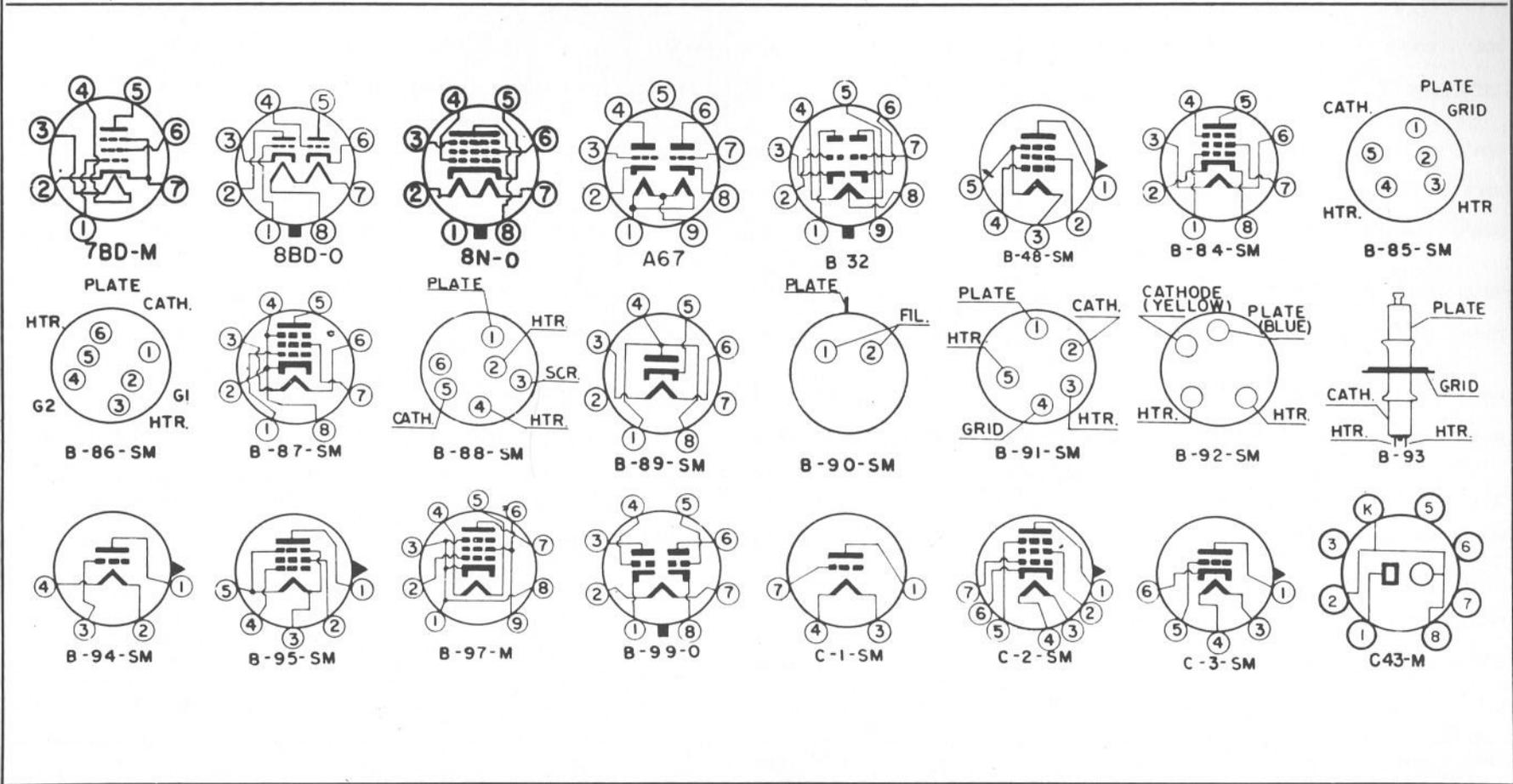
M — Miniature

O — Octal

5M — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASURE- MENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
5636	Pentode	B84	6.3 (3+6)	150 (2)	0 (1)	100 (5)	3	100 (7)	5	0 (4)	Red	Gm	3,000	1,900	
5637	Triode	B85	6.3 (3+4)	750 (5)	0 (2)	100 (1)	1.6				Red	Gm	2,700	1,800	
5638	Pentode	B86	6.3 (3+5)	270 (1)	0 (2)	100 (6)	4.8	100 (4)	1.25		Red	Gm	3,300	1,900	
5639	Pentode	B87	6.3 (3+6)	100 (2)	0 (1)	150 (5)	21	100 (7)	4		Red	Gm	9,000	5,000	
5640	Pentode	B88	6.3 (2+4)	0 (5)	9 (6)	100 (1)	31	100 (3)	2.2		Red	Gm	5,000	3,000	
5641	Rectifier	B89	6.3 (3+6)	0 (5)		15 (4)					Red	Emission	35 Ma	20 Ma	
5642	Rectifier	B90	1.25 (1+2)			(C)					Red	Emission	2 Ma	1 Ma	
5643	Gas Tetrode	C43	6.3 (6+3)	0 (5+4)	0 (7)	Use Resistor Patch Cord. (See Instructions.) 25 (1) 22					Red	Firing Volts		27 V.	
5644	Gas Diode	C43		0 (2)		Anode Starting Volts 120 (1) (See Instructions.) Working Volts 95 (Approximate) Working Current 5 to 25 Ma.					Red	Regulation	5 V.	8 V.	
5645	Triode	B91	6.3 (3+5)	550 (2)	0 (4)	100 (1)	5				Red	Gm	2,700	1,600	
5646	Triode	B91	6.3 (3+5)	750 (2)	0 (4)	100 (1)	1.4				Red	Gm	2,400	1,200	
5647	UHF Diode	B92	6.3 (2+3)	0 (4) Yellow		6 (1)	Blue				Red	Emission	45 Ma	25 Ma	
5654	Pentode	7-BD	6.3 (3+4)	200 (7)	0 (1)	120 (5)	7.5	120 (6)	2.5		Red	Gm	5,000	3,000	
5670	Twin Triode (Sec. 1) (Sec. 2)	A67	6.3 (1+9)	240 (2+8)	0 (3) 0 (7)	150 (4)	8.2 150 (6) 8.2				Red	Gm	5,500	3,000	
5672	Pentode	B48	1.25 (3+5)		6.5 (3)	67 (1)	3.2	67 (2)	1.1		Red	Gm	650	300	
5675	Pencil Triode	B93	6.3	68	0	135	24				Red	Gm	6,200	3,600	
5676	Triode	B94	1.25 (2+4)		5 (3)	135 (1)	4				15	Gm	1,600	900	
5677	Triode	B94	1.25 (2+4)		0 (3)	135 (1)	2				15	Gm	650	300	
5678	Pentode	B95	1.25 (3+5)		0 (4)	67 (1)	1.8	67 (2)	0.5		Red	Gm	1,100	600	
5686	Pentode	B97	6.3 (4+5)	0 (1)	12.5 (2)	250 (7)	27	250 (6)	5		Red	Gm	3,100	1,800	
5687	Twin Triode (Sec. 1) (Sec. 2)	B32	12.6 (4+5)	0 (3+6)	7 (2) 7 (7)	180 (1)	23 180 (9) 23				15	Gm	6,400	3,600	

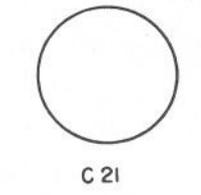
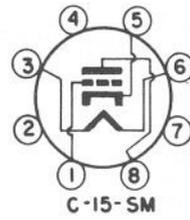
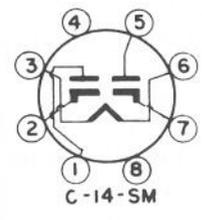
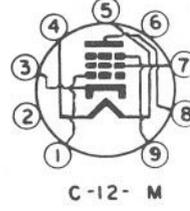
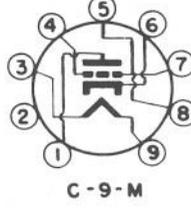
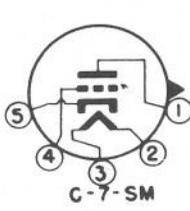
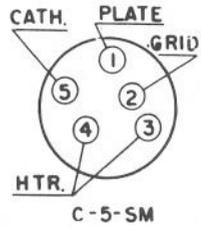
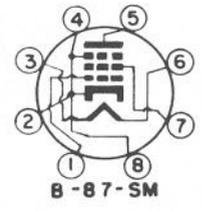
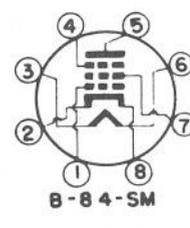
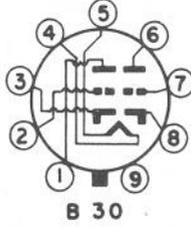
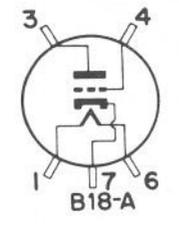
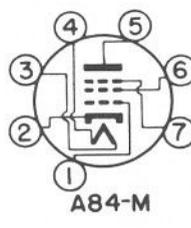
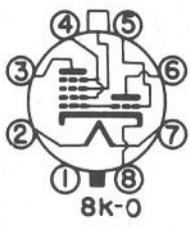
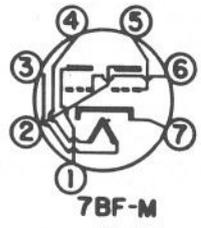
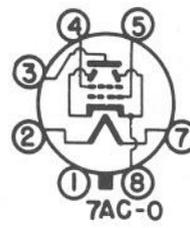
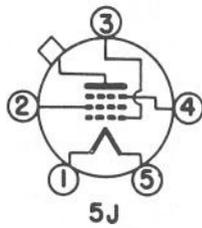
5691	Twin Triode (Sec. 1) (Sec. 2)	8-BD	6.3 (7+8)	0 (3+6)	2 (1) 2 (4)	250 (2) 2.3 250 (5) 2.3			Red	Gm	1,600	900
5692	Twin Triode (Sec. 1) (Sec. 2)	8-BD	6.3 (7+8)	0 (3+6)	9 (1) 9 (4)	250 (2) 6.5 250 (5) 6.5			Red	Gm	2,200	1,200
5693	Pentode	8-N	6.3 (2+7)	0 (5)	3 (4)	250 (8) 3	100 (6) 0.9	0 (3)	Red	Gm	1,600	900
5694	Twin Triode (Sec. 1) (Sec. 2)	B99	6.3 (2+7)	0 (1+8)	6 (4) 6 (5)	290 (3) 7 290 (6) 7			Red	Gm	3,200	1,900
5697	Triode	C1	0.625 (3+4)		3 (7)	120 (1) 0.25			3.5	Gm	135	50
5702	Pentode	C2	6.3 (3+4)	200 (6)	0 (7)	120 (1) 7.5	120 (2) 2.5	0 (5)	Red	Gm	5,000	3,000
5703	Triode	C3	6.3 (3+4)	220 (6)	0 (5)	120 (1) 9			Red	Gm	5,000	3,000



A — Acorn      L — Loctal      M — Miniature      O — Octal      SM — Subminiature

TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASUREMENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
5718	Triode	C5	6.3 (3+4)	150 (5)	0 (2)	100 (1)	12					Red	Gm	5,500	3,000
5719	Triode	C5	6.3 (3+4)	750 (5)	0 (2)	100 (1)	1.5					Red	Gm	2,800	1,800
5725	Pentode	A84	6.3 (3+4)	0 (2)	2 (1)	120 (5)	5.2	120 (6)	3.5	0 (7)		Red	Gm	3,200	2,000
5731	Triode	B18	6.3 (1+4)	0 (5)	7 (3)	250 (2)	6					Red	Gm	2,200	1,300
5744	Triode	C7	6.3 (2+3)	500 (5)	0 (4)	250 (1)	4					Red	Gm	4,000	2,300
5751	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	3 (2) 3 (7)	250 (1) 1 250 (6) 6						Red	Gm	1,200	700
5784	Pentode	C2	6.3 (3+4)	0 (6)	2 (7)	120 (1)	5	120 (2)	3.5			Red	Gm	3,200	1,900
5814	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	8 (2) 8 (7)	250 (1) 11 250 (6) 11						15	Gm	2,300	1,200
5824	Pentode	7-AC	25 (2+7)	0 (8)	22 (5)	135 (3)	61	135 (4)	2.5			Red	Gm	5,000	3,000
5829	Duo Diode (P-1) (P-2)	C21	6.3 (3+5)	0 (2+7)		6.5 (6) 6.5 (1)						Red	Emission	15 Ma	10 Ma
5840	Pentode	B87	6.3 (3+6)	150 (2)	0 (1)	100 (5)	7.5	100 (7)	2.4			Red	Gm	5,000	3,000
5842	Triode	C9	6.3 (3+9)	62 (6)	0 (7)	150 (1)	26					Red	Gm	24,000	12,000
5844	Twin Triode (Sec. 1) (Sec. 2)	7-BF	6.3 (3+4)	470 (7)	0 (6) 0 (4)	100 (1) 4.8 100 (2)						Red	Gm	3,400	2,000
5847	Pentode	C10	6.3 (3+9)	110 (4)	0 (1)	150 (6)	13	150 (8)	4.5			Red	Gm	12,500	7,000
5851	Pentode	C11	2.5 (1+7)		7.5 (8)	125 (3)	5.5	125 (6)	1			Red	Gm	1,600	900
5854	Pentode	5-J	1.25 (3+5)		2 (4)	45 (1)	1 Ma	45 (2)	0.4			Red	Plate Current	0.8 Ma	0.45 Ma
5871	Pentode	7-AC	6.3 (2+7)	0 (8)	13 (5)	300 (3)	33	225 (4)	2.2			Red	Gm	3,700	2,400
5879	Pentode	C12	6.3 (4+5)	0 (3)	3 (1)	250 (8)	1.8	100 (7)	0.4	0 (9)		Red	Gm	1,000	600
5873	Twin Triode (Sec. 1) (Sec. 2)	8-K	6.3 (1+8)	0 (4+5)	3 (3) 3 (6)	150 (2) 9 150 (7) 9						Red	Gm	2,900	1,400
5881	Pentode	7-AC	6.3 (2+7)	0 (8)	14 (5)	250 (3)	75	250 (4)	5			Red	Gm	5,200	3,000
5896	Duo Diode (P-1) (P-2)	C14	6.3 (3+6)	0 (2+7)		10(1) 10 (5)						Red	Emission	50 Ma	30 Ma
5897	Triode	C15	6.3 (3+6)	150 (5)	0 (1)	100 (8)	8.5					Red	Gm	5,800	3,600
5898	Triode	C15	6.3 (3+6)	680 (5)	0 (1)	150 (8)	1.7					Red	Gm	2,700	1,700

5899	Pentode	B87	6.3 (3+6)	120 (2)	0 (1)	100 (5) 7.2	100 (7) 2.2		Red	Gm	4,500	2,600
5900	Pentode	B87	6.3 (3+6)	120 (2)	0 (1)	100 (5) 7.2	100 (7) 2.2		Red	Gm	4,500	2,600
5901	Pentode	B87	6.3 (3+6)	150 (2)	0 (1)	100 (5) 7.5	100 (7) 2.4		Red	Gm	5,000	3,000
5902	Pentode	B87	6.3 (3+6)	270 (2)	0 (1)	110 (5) 30	110 (7) 2.2		Red	Gm	4,200	2,500
5904	Triode	C15	26.5 (3+6)	0 (5)	1 (1)	26.5 (8) 3			Red	Gm	5,000	3,000
5905	Pentode	B87	26.5 (3+6)	0 (2)	1 (1)	26.5 (5) 2.3	26.5 (7) 1		Red	Gm	2,800	1,700
5906	Pentode	B87	26.5 (3+6)	150 (2)	0 (1)	100 (5) 7.5	100 (7) 2.4		Red	Gm	5,000	3,000
5907	Pentode	B87	26.5 (3+6)	0 (2)	1 (1)	26.5 (5) 2.7	26.5 (7) 1.1		Red	Gm	3,000	1,600
5908	Pentode	B84	26.5 (3+6)	0 (2)	1 (1)	26.5 (5) 2.3	26.5 (7) 1.6	0 (4)	Red	Gm	1,700	1,000
5930	See 2A3											
5931	See 5U4G											



TYPE	CLASS	BASE	HEATER VOLTS	CATHODE OHMS	CONTROL GRID VOLTS	PLATE		SCREEN		SUPPRESSOR		AMP FACTOR CORRECTOR	MEASURE- MENT	RATING	
						VOLTS	MA	VOLTS	MA	VOLTS	MA			NOMINAL	REJECT
5916	Pentode	B84	26.5 (3+6)	150 (2+4)	0 (1)	100 (5)	4.4	100 (7)	3.4			Red	Gm	3,000	1,700
5932	See 6L6														
5963	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	0 (2) 0 (7)	67 (1)	7 67 (6) 7					Red	Gm	2,800	1,500
5964	Twin Triode (Sec. 1) (Sec. 2)	7-BF	6.3 (3+4)	50 (7)	0 (5) 0 (6)	100 (2)	9.5 100 (1) 9.5					Red	Gm	6,000	3,300
5975	See 6152														
5977	Triode	C15	6.3 (3+6)	270 (5)	0 (1)	100 (8)	6.5					15	Gm	4,500	2,300
6006	Pentode	8-BK	6.3 (2+7)	0 (3)	1 (5)	250 (8)	12	125 (6)	4.5			Red	Gm	4,700	2,800
6072	See 12AY7														
6080	See 6AS7														
6082	Twin Triode (Sec. 1) (Sec. 2)	8-BD	26.5 (7+8)	250 (3+6)	0 (1) 0 (4)	135 (2)	12.5 135 (5) 12.5					3.5	Gm	7,000	4,100
6111	Twin Triode (Sec. 1) (Sec. 2)	C43	6.3 (3+6)	220 (4+5)	0 (2) 0 (7)	100 (1)	8.5 100 (8) 8.5					Red	Gm	4,700	2,800
6112	Twin Triode (Sec. 1) (Sec. 2)	C43	6.3 (3+6)	0 (4+5)	1 (2) 1 (7)	100 (1)	0.8 100 (8) 0.8					Red	Gm	1,800	1,000
6135	See 6C4														
6136	See 6AU6														
6137	See 6SK7														
6158	Twin Triode (Sec. 1) (Sec. 2)	B30	12.6 (4+5)	0 (3+8)	4.5 (2) 4.5 (7)	250 (1)	6 250 (6) 6					Red	Gm	2,300	1,100
6201	See 12AT7														
7193	Triode	4- AM-0	6.3 (2+7)	0 (8)	10.5 (Cap)	300 (Key)	11.5					Red	Gm	3,000	1,900
8016	See 1B3														
9001	Pentode	7-BD	6.3 (3+4)	0 (2)	3 (1)	250 (5)	2	100 (6)	0.7			Red	Gm	1,400	900
9002	Triode	7-BS	6.3 (3+4)	0 (2)	7 (6)	250 (5)	6.5					Red	Gm	2,200	1,100

9003	Pentode	7-BD	6.3 (3+4)	0 (2)	3 (1)	250 (5) 6.5		Red	Gm	1,800	1,000
9004	Diode	B21	6.3 (1+4)	0 (3)		1.5 (2)		Red	Emission	5 Ma	2 Ma
9005	Diode	B22	3.6 (1+4)	0 (2)		1 (3)		Red	Emission	0.8 Ma	0.3 Ma
9006	Diode	6-BH	6.3 (3+4)	0 (2)		8 (5)		Red	Emission	5 Ma	2 Ma
XXB	See 3C6										
XXD	See 14AF7										
XXFM	See 7X7										
XXL	Triode	5-AC	6.3 (1+8)	(7)	8 (6)	250 (2) 8		Red	Gm	2,300	1,200

