RAYTHEON

RECEIVING TUBE DATA

price 50 cents

RAYTHEON®

Excellence in Electronics

RADIO AND TELEVISION TUBE DATA

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RAYTHEON MANUFACTURING COMPANY

Receiving and Cathode Ray Tube Operations

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TABLE OF CONTENTS

NOTE

The data contained herein is compiled as a Raytheon service to the field. It is not intended to indicate type availability.

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The Raytheon recipe for quality and reliability in radio and television tubes is compounded of these rare but essential ingredients:

Experience — the Raytheon reputation for *Excellence in Electronics* had been painstakingly built long before the word "electronics" became significant. Few if any manufacturers have put in the years of intensive tube development and research that are back of every Raytheon Tube.

Proved Performance — user confidence in Raytheon Tubes is based not on promises but on the sure knowledge of their past performance in actual service. That is why so many of the leading makers of radio and television receivers have standardized on Raytheon Tubes, and why radio and television service-dealers are so ready to stake their own reputations for quality and service on a recommendation of Raytheon Tubes to their customers.

Quality Control — Raytheon technical superiority and production craftsmanship is nowhere more emphatically in evidence than in its tube manufacturing, assembly inspection and testing operations. From inspection of incoming raw materials right through to the finished product the most rigid quality standards are strictly maintained. As a result of this constant effort to achieve the ultimate in quality control, users of Raytheon Tubes find that they not only meet but exceed the performance and life expectations that past experience has led them to expect.

Today, as always, Raytheon Tubes symbolize *Excellence in Electronics.*

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BEFORE USING THE TUBE DATA CHART

Please read the following notes carefully. They explain the symbols and abbreviations which are used.

The following system for describing the type of base and for referring to the base connection diagram is used in the column headed "Basing Data":

The symbol at the left of the hyphen refers to the base connection diagram.

The symbol at the right of the hyphen indicates the type of base and the number of contact pins in accordance with the following:

First Letter — D = Duo-decal
G = Magnal
H = Diheptal
M = Miniature Base
O = Octal Base
L = Locking Base
R = Radial
S = Standard Base

Second Letter — B = Button Base (a shell is not incorporated)
M = Medium Shell (bakelite)
S = Small Shell (bakelite)
W = Wafer Base (metal tube or bantam tube with metal shell)
GT = Intermediate (bantam) Shell (bakelite)
J = Jumbo Shell

Numeral indicates the number of pins in base.

"B" after numeral indicates bayonet pin in base.

Examples:

4C-SS4B	Diagram 4C, standard small shell with bayonet, 4 pin.
6G-SM6	Diagram 6G, standard medium shell, 6 pin.
7Q-OW7	Diagram 7Q, octal wafer base, 7 pin.

The column headed "Max Size View" shows the number of the tube outline drawing which gives dimensions.

Heater center tap permits operation at half voltage and twice current.

* Indicates that capacitance is measured with standard tube shield connected to cathode. In the case of a metal type, the metal shell is connected to cathode.

"C" after figure in "Mutual Conductance" column indicates that value is for conversion transconductance. (Used for converter types only.)

"S" after figure in "Plate Volts" column indicates that value shown is anode supply voltage and that it is applied through the indicated value of G, resistor.

Capacitances shown for converter types are for the mixer section only.

Values of Plate Ma., Screen Ma., and Ouput Watts for push-pull operation are for two tubes, and value of load resistance is from plate to plate.

Values of Grid Volts for filament type tubes are measured from the negative filament terminal.

Values of Cutoff Bias are approximate.

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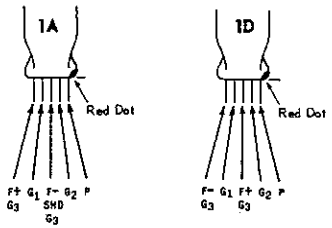
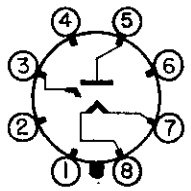
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
00A	TRIODE	FIL	5.0	.25	4D-SM4B	14AB	8.5	3.2	2.0	DETECTOR	45	0		1.5		20	30000	666				00A
01A	TRIODE	FIL	5.0	.25	4D-SM4B	14BA	8.1	3.1	2.2	AMP CL A	135	—9		3		8	10000	800				01A
0Y4 0Y4G	GAS DIODE	COLD			4BU-OW5 4BU-OS5	8BB 7AA				HALF-WAVE RECTIFIER	MAX PEAK INVERSE = 300 volts					MAX Io = 75 madc, MIN Io = 40 madc						0Y4 0Y4G
0Z4 0Z4G	TWIN DIODE	COLD			4R-OW6 4R-OT5	8BB 7AA	GAS FILLED			FULL WAVE RECTIFIER	300 RMS MAX			90 ma MAX 30 ma MIN				TUBE DROP 24v				0Z4 0Z4G
0Z4A/1003	TWIN DIODE	COLD			4R-OW6	8CA	GAS FILLED			FULL WAVE RECTIFIER	265 RMS MAX 85ma MAX — 30ma MIN. TUBE DROP 24v CONDITION I = SINGLE TUBE OPERATION (Applies to above) 365 RMS MAX 85ma MAX — 30ma MIN. TUBE DROP 24v CONDITION II = RESISTANCE PARALLEL OPERATION (Applies to above)											0Z4A/1003
1A3	DIODE	HTR	1.4	0.15	5AP-MB7	5AC				DETECTOR	117 MAX		0.5 MAX									1A3
1A4P	PENTODE	FIL	2.0	.06	4M-SS4	12DA	.007*	5.0*	12*	AMP CL A	180	—3	67.5	2.3	0.8		1MEG	750			—15	1A4P
1A4-T	TETRODE	FIL	2.0	.06	4K-SS4	12DA	.012*	4.6	11	AMP CL A	180	—3	67.5	2.3	0.7	720	.96MEG	750			—15	1A4-T
1A5GT	PENTODE	FIL	1.4	.05	6X-OGT7	9DB				POWER AMP CLASS A	90 85	—4.5 —4.5	90 85	4.0 3.5	0.8 0.7		.3 MEG .3 MEG	850 800	.115 .100	25000 25000		1A5GT
1A6	HEPTODE	FIL	2.0	.06	6L-SS6	12DA	.25*	10.5	9.0	OSC SECT MIXER	135S 180	.05MEG —3	67.5	2.3 1.3	2.4		GRID #2 RES. .5 MEG	300C	.02 MEG		—22.5	1A6
1A7G 1A7GT	HEPTODE	FIL	1.4	.05	7Z-OS8 7Z-OW8	9ED 9CA	.30*	6.5*	11*	OSC SECT MIXER	90 90	.2 MEG 0	45	1.2 0.55	0.6		.6 MEG	250C			—3	1A7G 1A7GT
1AB5	PENTODE	FIL	1.2	0.13	5BF-L8	9AA	0.025	2.8	4.2	VOLTAGE AMP	150	—1.5	150	6.8	2.0		.125MEG	1350			—23	1AB5
1AB6	HEPTODE	FIL	1.4	.025	7DH-MB7	5AC	.36	7.6	8.4	MIXER SECT. OSC. SECT.	85 35	0 .027MEG	64.5	0.65 1.5	0.17	OSC	1 MEG GRID CURR = 85ua	300C				1AB6
1AC6	HEPTODE	FIL	1.4	.05	7DH-MB7	5AC	.36	7.5	8.4	MIXER SECT. OSC. SECT.	85 30	0 .027MEG	60	0.65 1.65	0.14	OSC	1 MEG GRID CURR = 130ua	325C				1AC6
1AE4	PENTODE	FIL	1.25	.1	6AR-MB7	5AC	.008*	3.6*	4.4*	RF AMPLIFIER	90	0	90	3.5	1.2		.5 MEG	1550			—5	1AE4
1AF4	PENTODE	FIL	1.4	.025	6AR-MB7	5AC	.008*	3.8*	7.6*	RF AMPLIFIER	90	0	90	1.65	0.5		1.8 MEG	950			—3.5	1AF4
1AF5	DI-PENT	FIL	1.4	.025	7DJ-MB7	5AC	.2*	2.5*	4.3*	DET–AMPLIFIER	90	0	90	1.1	0.4		2 MEG	600			—3.5	1AF5
1AG4	PENTODE	FIL	1.25	.04	1D	3BA				POWER AMP	41.4	—3.6	41.4	2.4	0.6		.18MEG	1000	.035	12000		1AG4
1AH4	PENTODE	FIL	1.25	.04	1A	3BA	.01	3.5	4.5	RF AMPLIFIER	45	.5MEG	45	0.75	0.2		1.5MEG	750			—3	1AH4

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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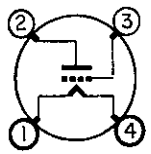
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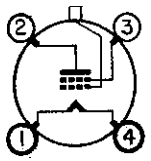
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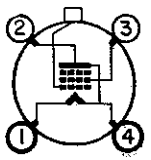
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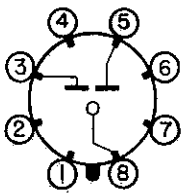
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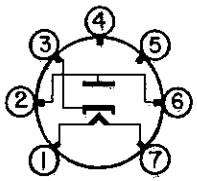
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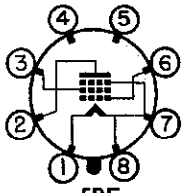
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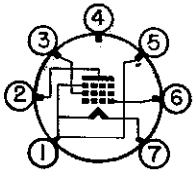
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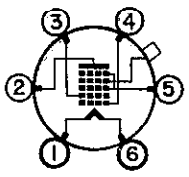
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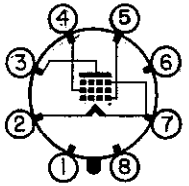
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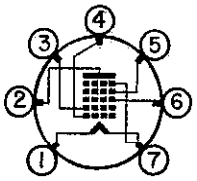
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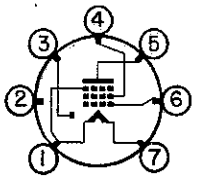
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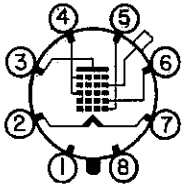
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TYPE	DESIGN	CATHODE HTR OR FIL			BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	VOLTS	AMPS			G-P mmfds	IN mmfds	OUT mmfds													
1AJ4	PENTODE	FIL	1.4	.025	7DP-MB7	5AC	.01	3.3	7.8	RF AMPLIFIER	90	0	90	1.65	0.55		1MEG	750				1AJ4
1AJ5	DI-PENT	FIL	1.25	.04	1E	3BA	.1	1.7	2.4	DET-AMPLIFIER	45	5MEG	45	1.0	0.3		.3MEG	425				1AJ5
1AK4	PENTODE	FIL	1.25	.02	1A	3BA	.01	3.5	4.5	RF AMPLIFIER	45	5MEG	45	0.75	0.2		1.5MEG	750			—3	1AK4
1AK5	DI-PENT	FIL	1.25	.02	1E	3BA	.01	2.0	2.7	DET-AMPLIFIER	45	5MEG	45	0.5	0.2		4MEG	280				1AK5
1AX2	DIODE	FIL	1.4	.65	9Y-MB9	5CB				HW RECTIFIER	PEAK INVERSE = 25000 volts; Io = 300ua max.											1AX2
1B3GT/ 8016	DIODE	FIL	1.25	0.2	3C-OGT6	9ED			1.5	HALF-WAVE RECT	MAX PEAK INVERSE = 30000 volts MAX AVE Io = 2 madc											1B3GT/ 8016
1B4/951	PENTODE	FIL	2.0	.06	4M-SS4	12DA	.007*	5.0	11	AMP CL A	180 90	—3 —3	67.5 67.5	1.7 1.6	0.6 0.7		1.5MEG 1MEG	650 600			—8 —8	1B4/951
1B5/25S	DUO-DI TRIODE	FIL	2.0	.06	6M-SS6	12BA	3.6	2.0	3.0	AMPLIFIER CLASS A	135	—3		0.8		20	35000	575				1B5/25S
1B7G 1B7GT	HEPTODE	FIL	1.4	.1	7Z-OS8 7Z-OW8	9ED 9CA	.34*	7.0*	7.5*	OSC SECT MIXER	90 90	.2MEG 0	45	1.6 1.5	1.3		.5MEG	350C			—14.5	1B7G 1B7GT
1B8GT	DI-TRI PENTODE	FIL	1.4	0.1	8AJ-OS8	9CA				TRI CL A PENT CL A	90 90	0 —6.0	90	0.15 6.3	1.4	66	0.24MEG	275 1150	.210	14000		1B8GT
1C3	TRIODE	FIL	1.4	.05	5CF-MB7	5AC	1.8*	0.9*	4.2*	AMP CL A	90	—3		1.4		14.5		760				1C3
1C5GT	PENTODE	FIL	1.4	.1	6X-OGT7	9DB				POWER AMP CLASS A	90 83	—7.5 —7	90 83	7.5 7.0	1.6 1.6	180 165	.12MEG .11MEG	1550 1500	.240 .200	8000 9000		1C5GT
1C6 1C7G	HEPTODE	FIL	2.0	.12	6L-SS6 7Z-OS8	12DA 12CA	.3* .26*	10 10*	10 14*	OSC SECT MIXER	180S 180	.05MEG —3	67.5	3.3 1.5	2.0		GRID #2 RES. .7MEG	.02 MEG 325C			—14	1C6 1C7G
1C8	HEPTODE	FIL	1.25	.04	8CN	3AA	.25*	6.5*	4.0*	CONVERTER	30	0	30	0.32	0.75		.3MEG	100C				1C8
											OSC GRID RES = .1 MEG, OSC GRID CURR = 30ua											
1D5G-P	PENTODE	FIL	2.0	.06	5Y-OS7	12CA	.007*	5.0*	11*	AMPLIFIER CLASS A	180 90	—3 —3	67.5 67.5	2.3 2.2	0.8 0.9	750 425	1MEG .6MEG	750 720			—15 —15	1D5G-P
1D5GT	TETRODE	FIL	2.0	.06	5R-OS7	12CA	.012*	4.6*	11*	AMP CL A	180	—3	67.5	2.3	0.7		.96MEG	750			—15	1D5GT
1D7G	HEPTODE	FIL	2.0	.06	7Z-OS8	12CA	.30*	10*	14*	OSC SECT MIXER	180S 180	.05MEG —3	67.5	2.3 1.3	2.4		GRID #2 RES. .5MEG	.02 MEG 300C			—22.5	1D7G
1D8GT	DI-TRI PENTODE	FIL	1.4	.1	8AJ-OGT8	9EA				TRI CL A PENT CL A	90 90	0 —9	90	1.1 5.0	1.0	25	43500 .2MEG	575 925	.200	12000		1D8GT
1E4G	TRIODE	FIL	1.4	.05	5S-OS7	9FC	2.4	2.4	6.0	AMPLIFIER CLASS A	90 90	—3 0		1.4 4.5		14.5 14.5	19000 11200	760 1300				1E4G
1E5G-P	PENTODE	FIL	2.0	.06	5Y-OS7	12CA	.007*	5.5*	12*	AMPLIFIER CLASS A	180 90	—3 —3	67.5 67.5	1.7 1.6	0.6 0.7	975 600	1.5MEG 1MEG	650 600			—8 —8	1E5G-P
1E7G	TWIN PENTODE	FIL	2.0	.24	8C-OS8	12BA		PUSH-PULL		CL A 1 SECT CL A 2 SECT	135 135	—4.5 —7.5	135 135	7.5 14	2.2 4.0		.26MEG	1425	.290 .575	16000 24000		1E7G
1F4 1F5G	PENTODE	FIL	2.0	.12	5K-SM5 6X-OM7	14BA 14BA		PUSH-PULL		PR AMP CL A CL AB 2 TUBE	135 180	—4.5 —7.5	135 180	8.0 19	2.4 5.5		.20MEG	1700	.310 1.25	16000 20000		1F4 1F5G
1F6 1F7G-H	DUO-DI PENTODE	FIL	2.0	.06	6W-SS6 7AD-OS8	12DA 12CA	.007* .01*	4 3.8*	9 9.5*	AMPLIFIER CLASS A	180	—1.5	67.5	2.2	0.7		1MEG	650			—12	1F6 1F7G-H
1G4GT	TRIODE	FIL	1.4	.05	5S-OGT7	9DB				AMP CL A	90	—6		2.3		8.8	10700	825				1G4GT
1G5G	PENTODE	FIL	2.0	.12	6X-OM7	14BA				POWER AMP CLASS A	135 90	—13.5 —6	135 90	8.7 8.5	2.5 2.5		.16MEG .13MEG	1550 1500	.550 .250	9000 8500		1G5G
1G6GT	TWIN TRIODE	FIL	1.4	.1	7AB-OGT8	9DB				CL A 1 SECT CL B 2 SECT	90 90	0 0		1.0 2.0		30 MAX SIG PLATE CUR = 14ma	45000	675	.675	12000		1G6GT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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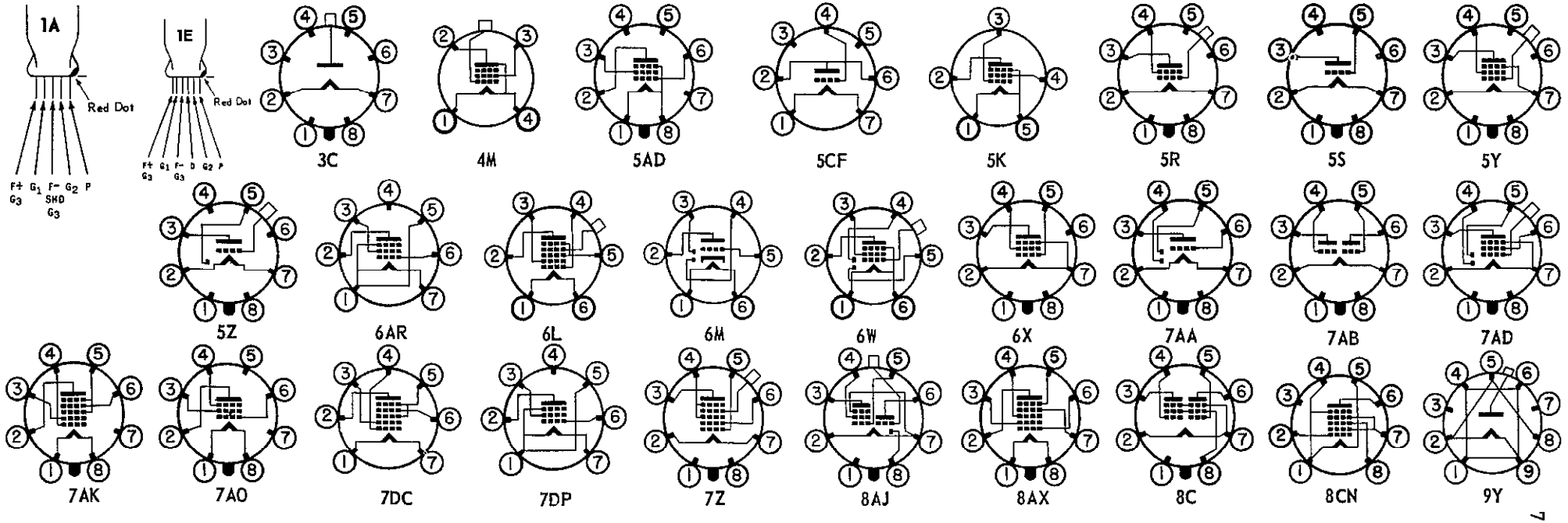
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES C-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
1H4G	TRIODE	FIL	2.0	.06	5S-OS6	12BA	5.0*	3.0*	3.0*	AMP CL A CL B 2 TUBE	180 157.5	—13.5 —15		3.1 1.0		9.3	10300	900	(SEE TYPE 30 2.1	ALSO) 8000		1H4G
1H5GT	DI-TRI	FIL	1.4	.05	5Z-OW7	9CA				VOLTAGE AMP	90	0		0.15		65	.24MEG	275				1H5GT
1H6G	DUO-DI TRIODE	FIL	2.0	.06	7AA-OS8	12BA	3.6*	2.0*	3.0*	AMPLIFIER CLASS A	135	—3		0.8		20	35000	575				1H6G
1J5G	PENTODE	FIL	2.0	.12	6X-0M7	14BA				PR AMP CL A	135	—16.5	135	7.0	2.0	100	.1 MEG	1000	.45	13500		1J5G
1J6G	TWIN TR	FIL	2.0	.24	7AB-OS8	12BA				CLASS B TWO SECT	135 135	0 —6		10 NO SIG 0.2 NO SIG					2.2 1.6	10000 10000		1J6G
1L4	PENTODE	FIL	1.4	0.05	6AR-MB7	5AC	0.008	3.6	7.5	AMP CL A	90 90	0 0	90 67.5	4.5 2.9	2.0 1.2		0.35MEG 0.6 MEG	1025 925			—8 —6	1L4
1L6	HEPTODE	FIL	1.4	.05	7DC-MB7	5AC	.3	7.4	12	CONVERTER	90	0	45	0.5	0.6		.65MEG	300C	G_2 = 90 V Ic_2 = 1.2ma		—3	1L6
1LA4	PENTODE	FIL	1.4	.05	5AD-L8	9AC				POWER AMP CLASS A	90 85	—4.5 —4.5	90 85	4.0 3.5	0.8 0.7		.3 MEG .3 MEG	850 800	.115 .100	25000 25000		1LA4
1LA6	HEPTODE	FIL	1.4	.05	7AK-L8	9AC	.40	7.7	8.0	OSC SECT MIXER	90 90	.2 MEG 0	45	1.2 0.55	0.6		.6 MEG	250C			—3	1LA6
1LB4	PENTODE	FIL	1.4	.05	5AD-L8	9AC				PR AMP CL A	90 45	—9 —4.5	90 45	5.0 1.6	1.0 0.3		.2 MEG .3 MEG	925 650	.200 .035	12000 20000		1LB4
1LB6	HEPTODE	FIL	1.4	0.05	8AX-L8	9AC	0.20	8.0	7.0	MIXER SECT OSC SECT	90 OSC Grid Volt = 0	0	67.5	0.40 Peak OSC Grid Voltage Applied to Grid #3 = 10 min Volts	2.2		2 MEG	100C			—4.5	1LB6
1LC5	PENTODE	FIL	1.4	0.05	7AO-L8	9AC	0.007	3.2	7.0	AMP CL A	90 45	0 0	45 45	1.15 1.10	0.20 0.25		1.5MEG 0.7MEG	775 750			—3 —3	1LC5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
1LC6	HEPTODE	FIL	1.4	0.05	7AK-L8	9AC	0.28	9.0	5.5	MIXER SECT OSC SECT	90 45	0 .2 MEG	35	0.75 1.4	0.70		.65MEG	275C			—3	1LC6
1LD5	DI-PENT	FIL	1.4	0.05	6AX-L8	9AC	0.20	3.2	6.0	AMP CL A	90 45	0 0	45 45	0.60 0.55	0.10 0.12		0.95MEG 0.90MEG	600 550				1LD5
1LE3	TRIODE	FIL	1.4	0.05	4AA-L8	9AC	1.7	1.7	3.0	AMP CL A	90 90	—3 0		1.4 4.5		14.5 14.5	19000 11200	760 1300				1LE3
1LF3	TRIODE	FIL	1.4	0.05	4AA-L8	9AC	1.7	1.7	3.0	VOLTAGE AMP	90	—3		1.4		14.5		760				1LF3
1LG5	PENTODE	FIL	1.4	0.05	7AO-L8	9AC	0.007	3.2	7.0	VOLTAGE AMP	90	0	45	1.7	0.4		1MEG	800			—10	1LG5
1LH4	DI-TRI	FIL	1.4	.05	5AG-L8	9AC				AMP CL A	90	0		0.15		65	.24MEG	275				1LH4
1LN5	PENTODE	FIL	1.4	.05	7AO-L8	9AC	.007	3.4	8.0	AMP CL A	90	0	90	1.6	0.35	880	1.1 MEG	800			—4.5	1LN5
1N5GT	PENTODE	FIL	1.4	.05	5Y-OW7	9CA	.007*	3.0	10.0	AMP CL A	90	0	90	1.2	0.3	1160	1.5 MEG	750			—4	1N5GT
1N6G 1N6GT	DI-PENT	FIL	1.4	.05	7AM-OS8 7AM-OW8	9FC 9DB				PR AMP CL A	90	—4.5	90	3.4	0.7		.3 MEG	800	.10	25000		1N6G 1N6GT
1P5GT	PENTODE	FIL	1.4	.05	5Y-OW7	9CA	.007*	3.0	10.0	AMP CL A	90	0	90	2.3	0.7		.8 MEG	750			—12	1P5GT
1Q5GT	BEAM PWR AMP	FIL	1.4	.1	6X-OGT7	9DB				POWER AMP CLASS A	90 85	—4.5 —5.0	90 85	9.5 7.0	1.3 0.8			2200 1950	.27 .25	8000 9000		1Q5GT
1R4/1294	DIODE	HTR	1.4	0.15	4AH-L8	9AC				DETECTOR	MAX PLATE = 117 volts (RMS)							MAX Io = 1madc				1R4/1294
1R5	HEPTODE	FIL	1.4	.05	7AT-MB7	5AC	.4	7.0	7.0	OSC SECT MIXER	OSC GRID RES —.1 MEG 90	0	67.5	1.7	OSC GRID CUR —.25 3.0		.5 MEG	MA 300C			—15	1R5
1S4	PENTODE	FIL	1.4	.1	7AV-MB7	5AC				PR AMP CL A	90 45	—7 —4.5	67.5 45	7.4 3.8	1.4 0.8		.1 MEG .1 MEG	1575 1250	.270 .065	8000 8000		1S4
1S5	DIODE PENTODE	FIL	1.4	.05	7DJ-MB7	5AC				DETECTOR AMP CL A	67.5	0	67.5	1.6	0.4		.6 MEG	625				1S5
1SA6GT	PENTODE	FIL	1.4	0.05	6BD-OW8	9BC	0.01	5.2	8.6	AMP CL A	90 45	0 0	67.5 45	2.45 1.10	0.68 0.30		0.8 MEG 0.7 MEG	970 750			—5.5 —3.5	1SA6GT
1SB6GT	DI-PENT	FIL	1.4	0.05	6BE-OS7	9DB	0.25	3.2	3.0	DET AMP CL A	90 45	0 0	67.5 45	1.45 0.6	0.38 0.16		0.7 MEG 0.9 MEG	665 500				1SB6GT
1T4	PENTODE	FIL	1.4	.05	6AR-MB7	5AC	.01	3.6	7.5	AMP CL A	90 45	0 0	67.5 45	3.5 1.7	1.4 0.7		.5 MEG .35MEG	900 700			—16 —10	1T4
1T5GT	BM PWR	FIL	1.4	.05	6X-OGT7	9DB				PR AMP CL A	90	—6	90	6.5	0.8			1150	.17	14000		1T5GT
1U4	PENTODE	FIL	1.4	0.05	6AR-MB7	5AC	0.008	3.6	7.5	VOLTAGE AMP	90	0	90	1.6	0.5		1 MEG	900			—4	1U4
1U5	DI-PENT	FIL	1.4	0.05	6BW-MB7	5AC				DET-AMP	67.5	0	67.5	1.6	0.4		0.6 MEG	625				1U5
1U6	HEPTODE	FIL	1.4	.025	7DC-MB7	5AC	.4*	8.0*	12*	OSC SECT MIXER SECT	90 .2 MEG 90 0		45	1.1 0.55	OSC GRID CURR = .035ma 0.55		.6 MEG 275C				—3	1U6
1-V	DIODE	HTR	6.3	.3	4G-SS4	12BA				H W RECT	325 RMS MAX			45 DC MAX TUBE DROP 20v AT 90ma DC								1-V
1V2	DIODE	FIL	0.625	.3	9U-MB9	5BB				H W RECTIFIER	MAX PEAK INVERSE = 7500 V; MAX Io = 550ua											1V2
1V6	TRIODE PENTODE	FIL	1.25	.04	1F	3BA	1.2 .05	4.0 3.2	1.9 2.4	TRIODE SECT PENTODE SECT	45 1 MEG 45 5 MEG		45	0.4 0.4	0.15		OSC GRID CURR = 12ua 1 MEG 200C				—3.5	1V6
1W4	PENTODE	FIL	1.4	.05	5BZ-MB7	5AC	.1*	3.6*	7.0*	POWER AMP	90	—9	90	5.0	1.0		.25MEG	925	.2	12000		1W4
1W5	PENTODE	FIL	1.25	.04	8CP-	3AA	.01*	2.3*	3.5*	RF AMPLIFIER	67.5	0	67.5	1.85	.75		.7 MEG	735			—5	1W5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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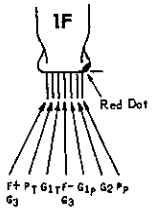
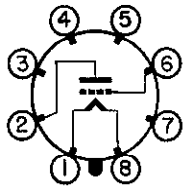
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
1X2	DIODE	FIL	1.25	.2	9Y-MB9	5CA				HW RECTIFIER	MAX. PEAK INVERSE = 15,000 V; MAX Io = 1ma											1X2
1X2A	DIODE	FIL	1.25	.2	9Y-MB9	5CA				HW RECTIFIER	MAX. PEAK INVERSE = 20,000 V; MAX Io = 1.1ma											1X2A
1X2B	DIODE	FIL	1.25	.2	9Y-MB9	5CA				HW RECTIFIER	MAX. PEAK INVERSE = 22,000 V; MAX Io = 0.5ma											1X2B
1Z2	DIODE	FIL	1.5	0.3	7CB-MB7	5CB				HALF-WAVE RECT	MAX. PEAK INVERSE = 20,000 MAX Io = 2 madc											1Z2
2A3	TRIODE	FIL	2.5	2.5	4D-SM4	16AA				PR AMP CL A PUSH-PULL CL AB 2 TUBE	250 300 300	—45 —62 SELF		60 80 80	4.2 780 OHM BIAS RES		800	5250	3.5 15 10	2500 3000 5000		2A3
2A4G	GAS TRI	FIL	2.5	2.5	5S-OS7	12BA				THYRATRON	200 RMS MAX			100 DC MAX TUBE DROP 12v							—9	2A4G
2A5	PENTODE	HTR	2.5	1.75	6B-SM6	14BA	TRIODE CONNECTION			PR AMP CL A CL AB 2 TUBE	250 350	—20 —38		31 48	6.8 (SEE TYPE 6F6G ALSO)		2600		.85 13.0	4000 6000		2A5
2A6	DUO-DI TRIODE	HTR	2.5	.8	6G-SS6	12DA	1.7	2.0	3.5	AMPLIFIER CLASS A	250	—2		0.9		100	91000	1100				2A6
2A7 2A7S	HEPTODE	HTR	2.5	.8	7C-SS7 7C-SS7	12DA	.3*	8.5	9.0	OSC SECT MIXER	250S 250	.05MEG —3	100	4.0 3.5	2.7		GRID #2 RES .02 MEG .36MEG 550C				—35	2A7 2A7S

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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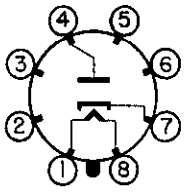
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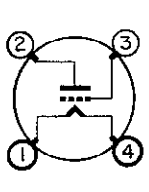
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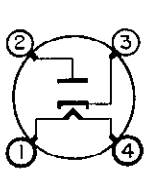
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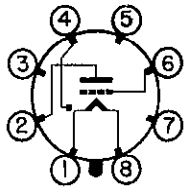
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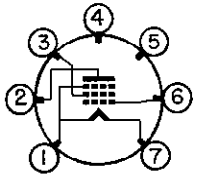
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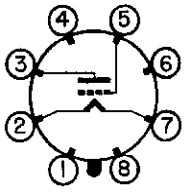
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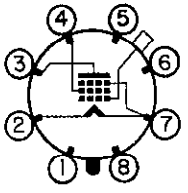
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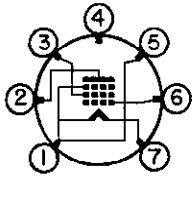
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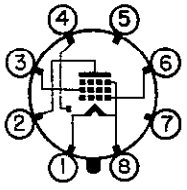
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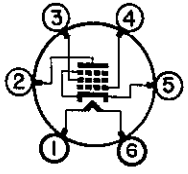
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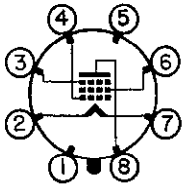
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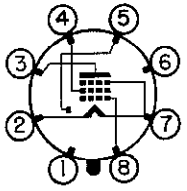
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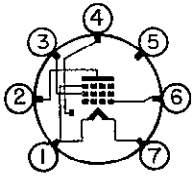
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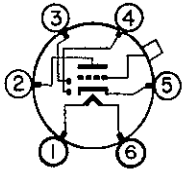
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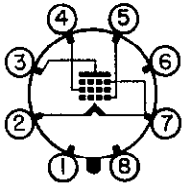
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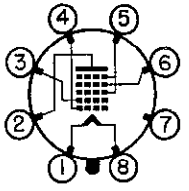
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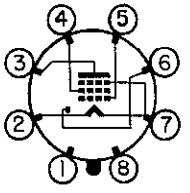
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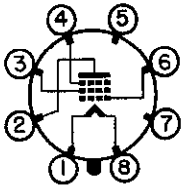
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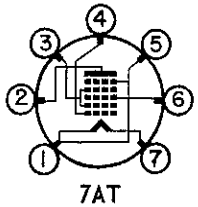
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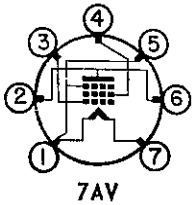
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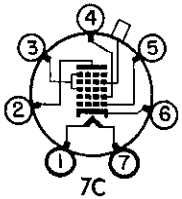
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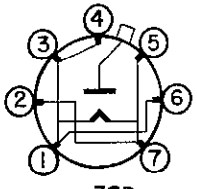
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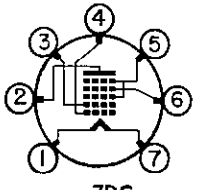
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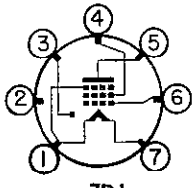
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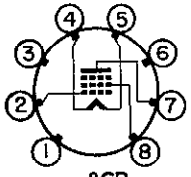
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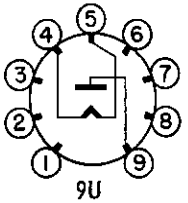
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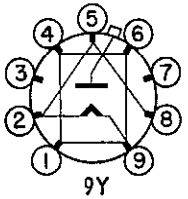
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RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
2AF4 2AF4A	TRIODE	HTR	2.35	0.6	7DK-MB7	5AC 5AA	1.9	2.2	.45	UHF OSCILLATOR	80	Rk 150		16		15	2270	6600				2AF4 2AF4A
2B3	DIODE	FIL	1.75	0.25	8HC-OGT6	9EC				HIGH VOLTAGE RECTIFIER	MAX PEAK INVERSE = 27000 volts						MAX Io = 50 ma					2B3
2B7 2B7S	DUO-DI PENTODE	HTR	2.5	.8	7D-SS7 7D-SS7	12DH 12DH	.007*	3.5	9.5	AMPLIFIER CLASS A	250 100	—3 —3	125 100	9.0 5.8	2.3 1.7		.65MEG .30MEG	1125 950			—21 —17	2B7 2B7S
2BN4	TRIODE	HTR	2.3	0.6	7EG-MB7	5AC	1.2	3.2	1.4	RF AMPLIFIER	150	Rk 220		9		43	6300	6800				2BN4
2C50	DOUBLE TRIODE	HTR	12.6	0.3	8BD-OGTR	9BC				DISCRIMINATOR	200	—11		18		10	3450	2900				2C50
2CY5	TETRODE	HTR	2.4	0.6	7EW-MT	5AA	0.03	4.5	3.0	CL A AMP	180	—1.0	180	10	1.5		0.1MEG	8000			—6	2CY5
2E5	ELEC RAY	HTR	2.5	.8	6R-SS6	12BA				TUNING IND	250 THRU 1 MEG, TARGET 250v, GRID 0v FOR 90°						—8v FOR 0°					2E5
2E31 2E32	PENTODE	FIL	1.25	0.05	1A	3BA	0.018	4.2	4.0	VOLTAGE AMP	22.5	0	22.5	0.4	0.3		0.35MEG	500			—2.0	2E31 2E32
2E35 2E36	PENTODE	FIL	1.25	0.03	1A	3BA	0.2	2.7	5.7	POWER AMP	22.5	0	22.5	0.27	0.07		0.22MEG	385	.0012	0.15 MEG		2E35 2E36
2E41 2E42	DIODE PENTODE	FIL	1.25	0.03	1B	3BA	0.10	2.7	4.3	DET-AMP	22.5	0	22.5	0.35	0.12		0.25MEG	375				2E41 2E42
2G21 2G22	TRIODE HEPTODE	FIL	1.25	0.05	1C	3BA	0.065	3.5	3.6	TRIODE OSC HEPT MIXER	22.5 22.5	0	22.5	1.0 0.2	0.3		0.5 MEG	60C			—3.5	2G21 2G22
2S/4S	DUO DIODE	HTR	2.5	1.35	5D-SS5					DETECTOR				40 APPROX PER PLATE AT 50v DC								2S/4S
2T4	TRIODE	HTR	2.35	0.6	7DK-MB7	5AA	1.7	2.6	.40	UHF OSCILLATOR	80	Rk 150		18		13		7000				2T4
2V2	DIODE	FIL	2.5	0.2	8FV-OM8	11BC				HIGH VOLTAGE RECTIFIER	MAX PEAK INVERSE = 33000 volts						Io = 2ma DC MAX					2V2
2W3GT	DIODE	FIL	2.5	1.5	4X-OW5	9BC				H W RECT	350 RMS MAX			55 DC MAX								2W3GT
2X2A	DIODE	HTR	2.5	1.75	4AB-SS4	12DA				H W RECT	4500 RMS MAX			7.5 DC MAX								2X2A
2Y2	DIODE	HTR	2.5	1.75	4AB-SS4	12DA				HALF-WAVE RECT	MAX PEAK INVERSE = 12000 volts MAX Io = 5madc											2Y2
3A2	DIODE	HTR	3.15	0.22	9DT-MB9	5CB			1.0	HALF WAVE RECTIFIER	MAX PEAK INVERSE = 18000 volts MAX AC							Io = 1.5ma				3A2
3A4	BM PWR	FIL	1.4	0.2	7BB-MB7	5AC	0.2	4.8	4.2	PR AMP CL A	150 135	—8.4 —7.5	90 90	13.3 14.8	2.2 2.6		0.10MEG 0.09MEG	1900 1900	700 600	8000 8000		3A4
3A5	TWIN TRIODE	FIL	1.4 or 2.8	.22 .11	7BC-MB7	5AC	3.2L 3.2R	0.9L 0.9R	1.0L 1.0R	H F AMP	90	—2.5		3.7		15	8300	1800				3A5
3A8GT	DI-TRI PENTODE	FIL	1.4 or 2.8	.1 .05	8AS-OGT8	9EB	2.0 .012	2.6* 3.0	4.2 10*	TRI CL A PENT CL A	90 90	—FIL —FIL	90	0.20 1.5	0.5		.20MEG .8 MEG	325 750				3A8GT
3AF4A	TRIODE	HTR	3.2	0.45	7DK-MB7	5AA	1.9	2.2	.45	UHF OSCILLATOR	80	Rk 150		16		15	2270	6600				3AF4A
3AL5	DOUBLE DIODE	HTR	3.15	0.6	6BT-MB7	5AA				DETECTOR	MAX PEAK INVERSE = 330 volts											3AL5
3AU6	PENTODE	HTR	3.15	0.6	7BK-MB7	5AC	.0035	5.5	5.0	RF AMPLIFIER	250	—1		7.6			1.5MEG	4450				3AU6
3AV6	DBLE DI TRIODE	HTR	3.15	0.6	7BT-MB7	5AC	2.0	2.2	0.8	DETECTOR AVC RECTIFIER AF AMPLIFIER	250	—2		1.2		100	62500	1600				3AV6

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

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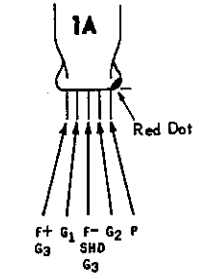
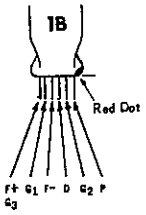
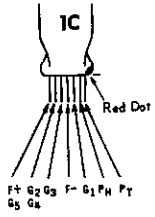
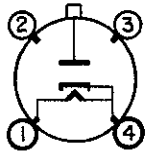
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
3B2	DIODE	HTR	3.15	0.22	8GH-OJ8	12HE			1.8	HW RECTIFIER	MAX PEAK INVERSE = 35000 volts						MAX AVG. Io = 1.1ma					3B2
3B5GT	BM PWR	FIL	1.4 or 2.8	0.10 0.05	7AQ-OGT7	9DB	PARALLEL FIL SERIES FIL			PR AMP CL A	45 67.5	—4.5 —7	45 67.5	4.4 6.7	0.3 0.5		0.1 MEG 0.1 MEG	1400 1500	.070 .180	8000 5000		3B5GT
3B7/1291	TWIN TRIODE	FIL	1.4	.22	7BE-L8	9AC	2.6L 2.6R	1.4L 1.4R	1.8L 2.6R	AMP OSC CLASS B	135 90	0		19 10.4		20 20		1900 1850	1.5 1.0	16000 8000		3B7/1291
3BA6	PENTODE	HTR	3.15	0.6	7BK-MB7	5AC	.0035	5.5	5.0	RF-IF AMPLIFIER	250	Rk 68	100	11			1.5MEG	4400				3BA6
3BC5	PENTODE	HTR	3.15	0.6	7BD-MB7	5AC	.030	6.5	1.8	RF AMPLIFIER	125	Rk 125					0.5MEG	6100				3BC5
3BF6	HEPTODE	HTR	3.15	0.6	7CH-MB7	5AC	.05			MIXER-OSCILLATOR	250		100	3			1MEG	475				3BF6
3BN4	TRIODE	HTR	2.8	0.45	7EG-MB7	5AC	1.2	3.2	1.4	RF AMPLIFIER	150	Rk 220		9		43	6300	6800				3BN4
3BN6	GATED BM	HTR	3.15	0.6	7DF-MB7	5AD				DISCRIMINATOR	80	INPUT SIG CENTER FREQ. = 10.7 MC FREQ. DEV. = ± 75 kc										3BN6
3BU8	TWIN PENTODE	HTR	3.15	0.6	9EG-MR9	5BC	1.9			SYNC-AGC	100	—10	67.5	2.2	3.3			180			—4.5	3BU8
3BY6	PENTAGRID	HTR	3.15	0.6	7CH-MB7	5AC	0.08			GATED AMPLIFIER	250		100	6.5				1900				3BY6

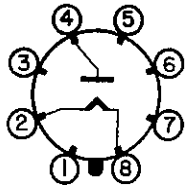
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

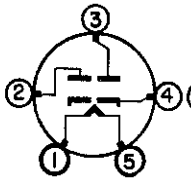


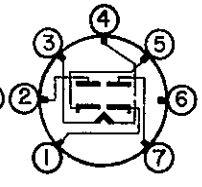


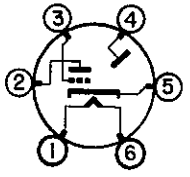


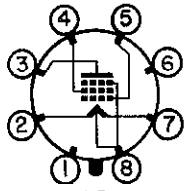


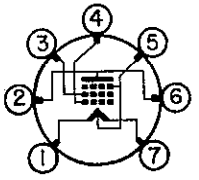


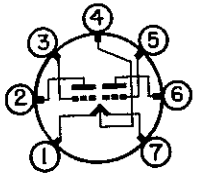


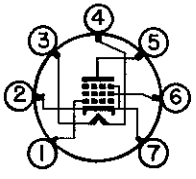


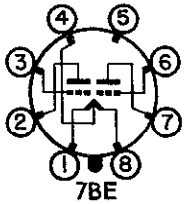


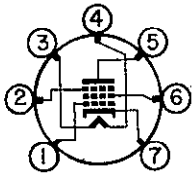


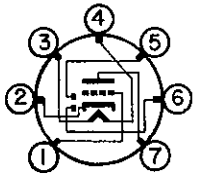


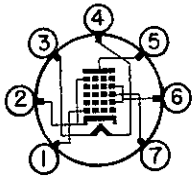


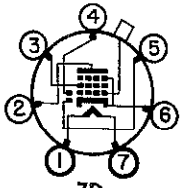


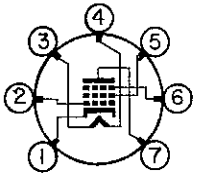


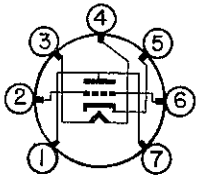


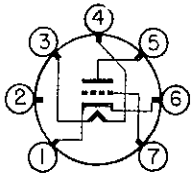


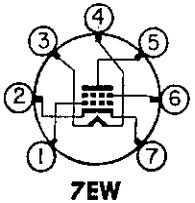


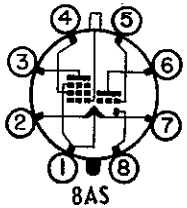


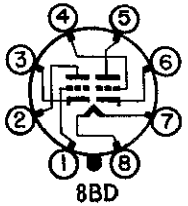


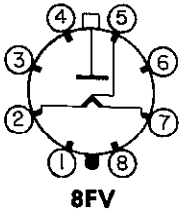


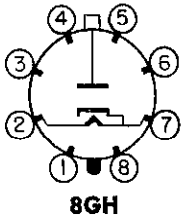


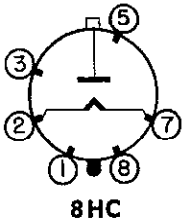


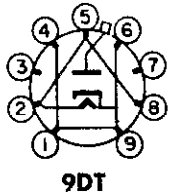


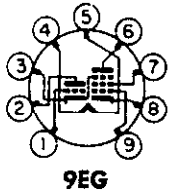












TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
3BZ6	PENTODE	HTR	3.15	0.6	7CM-MB7	5AC	0.025	7.0	2.0	AGC IF AMPLIFIER	125		125	14			0.26MEG	8000				3BZ6
3C2	DIODE	FIL	3.15	0.21	8FV-OM8	12JD			1.4	HIGH VOLTAGE MAX PEAK INVERSE = 33 kv RECTIFIER						MAX Io = 80 ma						3C2
3C5GT	BM PWR	FIL	1.4 or 2.8	0.1 0.05	7AQ-OGT7	9DB	PARALLEL FIL SERIES FIL			PR AMP CL A	90 90	—9 —9	90 90	6 6	1.4 1.4			1550 1450	.240 .260	10000 10000		3C5GT
3C4	PENTODE	FIL	1.4	.05	6BX-MB7	5AC	.3	4.9	4.4	POWER AMP	85	—5.2	85	5.0	1.1		.125MEG	1350	.2	13000		3C4
3C6	TWIN TRIODE	FIL	1.4 2.8	0.1 0.05	7BW-L8	9AC	PARALLEL FIL SERIES FIL			VOLTAGE AMP	90 90	0 0		4.5 4.5		14.5 14.5	11200 11200	1300 1300				3C6
3CB6	PENTODE	HTR	3.15	0.6	7CM-MB7	5AC	0.025	6.5	2.0	IF AMPLIFIER	125		125	13			0.28MEG	8000				3CB6
3CF5	PENTODE	HTR	3.15	0.6	7BD-MB7	5AC	0.03	6.5	1.9	RF AMPLIFIER	125		125	11	2.3		0.3MEG	7600				3CF5
3CF6	PENTODE	HTR	3.15	0.6	7CM-MB7	5AC	0.02	6.5	2.0	RF AMPLIFIER	200	Rk 180	150	9.5	2.8		0.6MEG	6200			—6.5	3CF6
3CS6	HEPTODE	HTR	3.15	0.6	7CH-MB7	5AC	0.05	5.5	7.5	CL A AMPLIFIER	100	—1.0	30	.75	1.1		1MEG	1500			—2.5	3CS6
3CY5	TETRODE	HTR	2.9	0.45	7EW-M7	5AA	0.03	4.5	3.0	CL A AMPLIFIER	180	—1.0	180	10	1.5		0.1MEG	8000			—6	3CY5
3D6/1299	BM PWR	FIL	1.4 or 2.8	.220 .110	6BA-L8	9AC	PARALLEL FIL SERIES FIL			PR AMP CL A	150 135	—4.5 —4.5	90 90	9.8 9.8	1.0 1.2			2400 2400	.600 .500	14000 12000		3D6/1299
3DK6	PENTODE	HTR	3.15	0.6	7CM-M7	5AC	0.02	6.3	1.9	IF AMPLIFIER	125	Rk 56	125	12	3.8			9800			—6.5	3DK6
3DT6	PENTODE	HTR	3.15	0.6	7EN-MB7	5AC	0.02	6.1	5.8	DETECTOR	150	Rk 560	100	1.1	2.1		0.15MEG	800			—4.5	3DT6
3E5	BM PENT	FIL	1.4 2.8	.05 .025	6BX-MB7	5AC	PARALLEL FIL SERIES FIL			POWER AMP	90 90	—8 —8	90 90	6.0 5.5	1.5 1.5		.14MEG .12MEG	1200 1100	.2 .175	8000 8000		3E5
3E6	PENTODE	FIL	1.4 2.8	0.1 0.05	7CJ-L8	9AC	.007	5.5	8.0	VOLTAGE AMP	90 90	0 0	90 90	4.2 2.9	1.7 1.2		0.25MEG 0.325MEG	2000 1700	PARALLEL FIL SERIES FIL		—5.5 —4.0	3E6
3LE4	BM PWR	FIL	1.4 or 2.8	0.1 0.05	6BA-L8	9AC	PARALLEL FIL SERIES FIL			PR AMP CL A	90 90	—9 —9	90 90	10.0 8.8	2 1.8		0.10MEG 0.11MEG	1700 1600	.325 .300	6000 6000		3LE4
3LF4	BM PWR	FIL	1.4 or 2.8	0.1 0.05	6BA-L8	9AC	PARALLEL FIL SERIES FIL			PR AMP CL A	90 90	—4.5 —4.5	90 90	9.5 8.0	1.3 1.0		0.75MEG 0.80MEG	2200 2000	.270 .230	8000 8000		3LF4
3Q4	BM PWR	FIL	1.4 or 2.8	0.1 0.05	7BA-MB7	5AC	PARALLEL FIL SERIES FIL			PR AMP CL A	90 90	—4.5 —4.5	90 90	9.5 7.7	2.1 1.7		0.10MEG 0.12MEG	2150 2000	.250 .240	10000 10000		3Q4
3Q5GT	BM PWR	FIL	1.4 or 2.8	.1 .05	7AQ-OGT7	9DB	PARALLEL FIL SERIES FIL			PR AMP CL A	90 90	—4.5 —4.5	90 90	9.5 8.0	1.3 1.0		.075MEG .08 MEG	2200 2000	.270 .230	8000 8000		3Q5GT
3S4	PENTODE	FIL	1.4 or 2.8	.1 .05	7BA-MB7	5AC	PARALLEL FIL SERIES FIL			POWER AMP CLASS A	90 90	—7 —7	67.5 67.5	7.4 6.1	1.4 1.1		.1 MEG .1 MEG	1550 1425	.270 .235	8000 8000		3S4
3V4	PENTODE	FIL	1.4 2.8	0.1 0.05	6BX-MB7	5AC	0.20	5.5	3.8	POWER AMP	90 90	—4.5 —4.5	90 90	9.5 7.7	2.1 1.7		0.1 MEG 0.12MEG	2150 2000	0.27 0.24	10000 10000	Par Fil Ser Fil	3V4
4A6G	TWIN TRIODE	FIL	2.0 or 4.0	.12 .06	8L-OS8	12BA				CL A 1 SECT CL B 2 SECT	90 90	—1.5 —1.5		1.1 1.1 MAX SIG		20	26600 PLATE CUR—10.8ma	750	1.0	8000		4A6G
4AU6	PENTODE	HTR	4.2	0.45	7BK-MB7	5AC	0.0035	5.5	5.0	VOLTAGE AMP	250	—1	150	10.8	4.3		1MEG	5200			—6.2	4AU6
4BC5	PENTODE	HTR	4.2	0.45	7BD-MB7	5AC	0.02	6.6	3.1	CL A AMP	100 250	Rk 250	100 150	4.7 7.5	1.4 2.1		.6 MEG .8 MEG	4900 5700			—5 —8	4BC5
4BC8	DOUBLE TRIODE	HTR	4.2	0.6	9AJ-MB9	5BB	1.4	2.5	1.3	CASCADE AMPLIFIER	150	Rk 220		10		35		6200			—13	4BC8
4BN6	GATEDBM	HTR	4.2	0.45	7DF-MB7	5AD				DISCRIMINATOR	80	INPUT SIG CENTER FREQ = 10.7 Mc FREQ. DEV = ± 7.5 kc										4BN6
4BQ7A	DBLE TRI	HTR	4.2	0.6	9AJ-MB9	5BB	1.5	2.85	1.35	RF AMPLIFIER	150	Rk 220		9		39	6100	6400			—10	4BQ7A
4BS8	DBLE TRI	HTR	4.2	0.6	9AJ-MB9	5BB	1.15	2.6	1.2	CASCADE AMPLIFIER	150	Rk 220		10		36	5000	7200			—7	4BS8

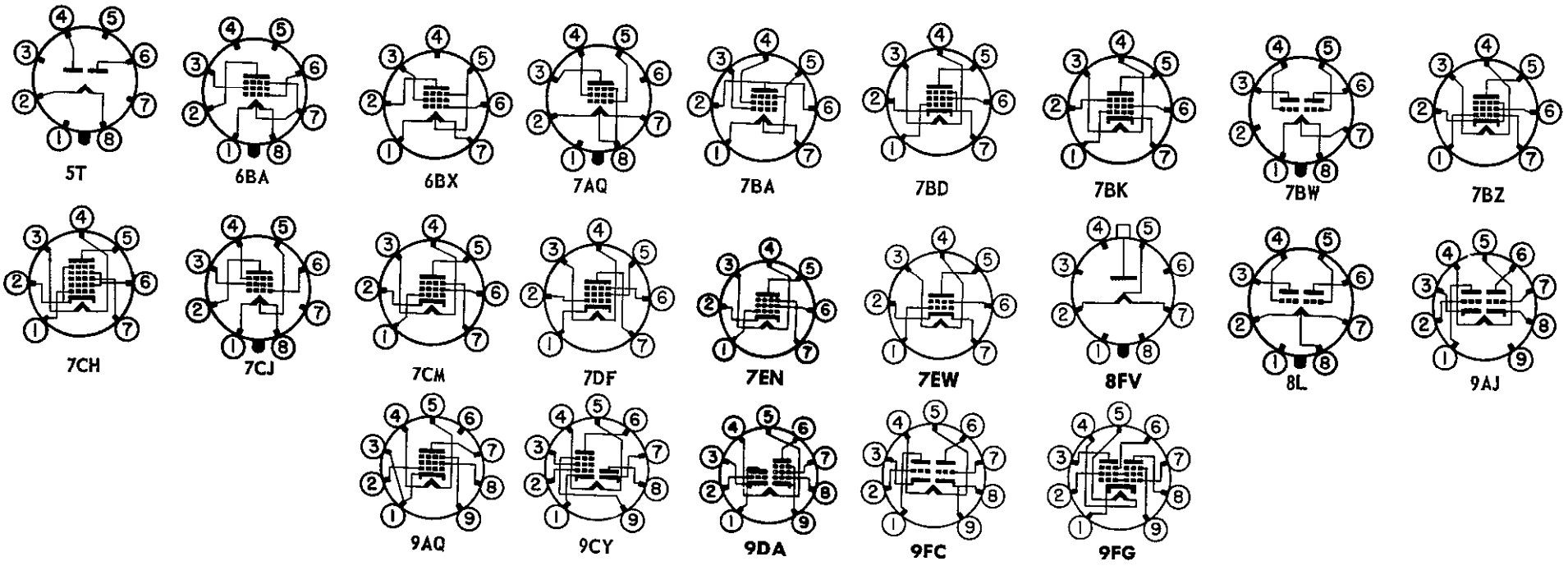
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
4BU8	TWIN PENTODE	HTR	4.2	0.45	9FG-MB9	5BC	1.9			SYNC-AGC	100	—10	67.5	2.2	3.3			180			—4.5	4BU8
4BX8	DBLE TRI	HTR	4.5	0.6	9AJ-MB9	5BB	1.4	2.4	1.25	CASCADE AMPLIFIER	65	—1.0		9		25		6700			—7	4BX8
4BZ7	DBLE TRI	HTR	4.2	0.6	9AQ-MB9	5BC	0.007	7.2	3.7	RF AMPLIFIER	150	Rk 220		10		38	5600	6800			—11	4BZ7
4BZ8	DBLE TRI	HTR	4.2	0.6	9AJ-MB9	5BB	1.15			CASCADE AMPLIFIER	125	Rk 100		10		45	5600	8000			—13	4BZ8
4CB6	PENTODE	HTR	4.2	0.45	7CM-MB7	5AC	0.025	6.5	2.0	IF AMPLIFIER	125	125		13			0.28MEG	8000				4CB6
4CE5	PENTODE	HTR	4.2	0.45	7BD-MB7	5AC	0.03	6.5	1.9	RF AMPLIFIER	125		125	11	2.3		0.3 MEG	7600				4CE5
4CX7	DBLE TRI	HTR	4.2	0.6	9FC-MB9	5BB	1.2	2.4	1.3	CASCADE AMPLIFIER	150	Rk 220		9		39		6400			—10	4CX7
4CY5	TETRODE	HTR	4.5	0.3	7EW-M7	5AA	0.03	4.5	3.0	CL A AMPLIFIER	180	—1.0	180	10	1.5		0.1 MEG	8000			—6	4CY5
4DK6	PENTODE	HTR	4.2	0.45	7CM-M7	5AC	0.02	6.3	1.9	IF AMPLIFIER	125	Rk 56	125	12	3.8			9800			—6.5	4DK6
4DT6	PENTODE	HTR	4.2	0.45	7EN-MB7	5AC	0.02	6.1	5.8	DETECTOR	150	Rk 560	100	1.1	2.1		0.15MEG	800			—4.5	4DT6
5AM8	DIODE PENTODE	HTR	4.7	0.6	9CY-MB9	5BB	0.015	6	2.6	DET-AMP	200	Rk 120	150	9.5	3		0.3 MEG	5800			—9	5AM8
5AN8	TRIODE PENTODE	HTR	4.7	0.6	9DA-MB9	5BB	1.5 0.04	2.0 7.0	0.27 2.3	AMPLIFIER	300	Rk 180		13		19	5750	3300				5AN8
5AQ5	BEAM PENTODE	HTR	4.7	0.6	7BZ-MB7	5AD	0.17	8.0	11.0	POWER AMP	250	—12.5	250	45	4.5		52000	4100	4.5	5000		5AQ5
5AS4	DBLE DI	FIL	5.0	3.0	5T-OM5	16AA				FW RECTIFIER	MAX PEAK INVERSE = 1550 volts			MAX Io = 1 amp								5AS4

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



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TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
5AS8	DIODE PENTODE	HTR	4.7	0.6	9DS-MB9	5BB	0.02	2.4	7.0	DET-AMP	200	Rk 180	150	9.5	3		0.3 MEG	6200			—8	5AS8
5AT8	TRIODE PENTODE	HTR	4.7	0.6	9DW-MB9	5BB	1.5	2.0	0.5	OSCILLATOR MIXER	100 250	150	Rk 200	8.5 7.7	1.6	40	0.75MEG	5800 4600			—10	5AT8
5AU4	DBLE DI	FIL	5.0	4.5	5T-08	12EE				FW RECTIFIER	MAX PEAK INVERSE = 1400 volts						MAX Io = 1075 ma					5AU4
5AV8	TRIODE PENTODE	HTR	4.7	0.6	9DZ-MB9	5BB	1.5 0.04	2.0 7.0	0.34 3.0	AMPLIFIER	200	—6	150	13 9.5	2.8	19	0.3MEG	3300 6200			—19 —8	5AV8
5AW4	DBLE DI	FIL	5.0	4.0	5T-OM5	16AA				FW RECTIFIER	MAX. PEAK INVERSE = 1550 V; MAX Io = 250ma											5AW4
5AX4GT	DBLE DI	FIL	5.0	2.5	5T-OGT5	9DB				FW RECTIFIER	MAX. PEAK INVERSE = 1400 V; MAX Io = 175ma											5AX4GT
5AZ4	DOUBLE DIODE	FIL	5.0	2.0	5T-L8	9AD				FULL-WAVE RECT	MAX. PEAK INVERSE = 1400 volts MAX Io = 125 madc											5AZ4
5B8	TRIODE PENTODE	HTR	4.7	0.6	9EC-MB9	5BB	1.7 0.05	1.9 6.0	1.4 2.6	OSCILLATOR MIXER	200 200	—6	150	13 9.5	2.8	19	0.3MEG	3300 6200			—19 —8	5B8
5BE8	TRIODE PENTODE	HTR	4.7	0.6	9EG-MB9	5BB	1.8 0.04	2.8 4.4	1.5 2.6	OSCILLATOR MIXER	150 250	Rk 68	110	18 10	3.5	40	0.4MEG	8500 5200			—12 —10	5BE8
5BK7A	DBLE TRI	HTR	4.7	0.6	9AJ-MB9	5BB	1.9	3.0	1.1	RF AMPLIFIER	150	Rk 56		18		43	4600	9300			—11	5BK7A
5BQ7A	DBLE TRI	HTR	5.6	0.45	9AJ-MB9	5BB	1.5	2.85	1.35	RF AMPLIFIER	150	Rk 220		9		39	6100	6400			—10	5BQ7A
5BR8	TRIODE PENTODE	HTR	4.7	0.6	9FA-MB9	5BB	1.8 0.015	2.5 5.0	0.4 2.6	OSCILLATOR MIXER	150 250	Rk 68	110	18 10	3.5	40	0.4MEG	8500 5200			—12 —10	5BR8
5BT8	DBLE DI PENTODE	HTR	4.7	0.6	9FE-MB9	5BB	0.04	1.3 7.0	3.0 2.3	DET-AMP	200	Rk180	150	9.5	2.8		0.3MEG	6200			—8	5BT8
5BZ7	DBLE TRI	HTR	5.6	0.45	9AQ-MB9	5BC	0.007	7.2	3.7	RF AMPLIFIER	150	Rk 220		10		38	5600	6800			—11	5BZ7
5CG8	TRIODE PENTODE	HTR	4.7	0.6	9FA-MB9	5BB	1.5	2.6	0.05	OSCILLATOR MIXER	100 250	Rk 200	150	8.5 7.7	1.6	40	0.75MEG	5800 4600			—10	5CG8
5CL8	TRIODE TETRODE	HTR	4.7	0.6	9FX-MB9	5BB	1.8 0.028	2.7 5.0	0.4 2.0	OSCILLATOR MIXER	125	—1.0	125	15 12	4.0	40	0.1 MEG	8000 5800			—9 —10	5CL8
53CM8	TRIODE PENTODE	HTR	4.7	0.6	9FZ-MB9	5BB	1.9 0.02	1.6 6.0	0.22 2.6	IF AMPLIFIER	250 200	—2	150	1.8 9.5	2.8	100	0.6 MEG	2000 6200			—8	5CM8
5J6	TWIN TRIODE	HTR	4.7	0.6	7BF-MB7	5AC	1.6	2.2	0.4	OSCILLATOR	100	—1		8.5		38	6000	5300				5J6
5R4G	DBLE DI	FIL	5.0	2.0	5T-OM5	16AA				FW RECTIFIER	MAX. PEAK INVERSE = 2800 V; MAX Io = 250ma											5R4G
5R4GY 5R4GYA	TWIN DIODE	FIL	5.0	2.0	5T-OM5	16AA 12GE				FULL WAVE RECTIFIER	1000 RMS MAX COND IN 150 DC MAX TUBE DROP 50v AT 175ma DC 950 RMS MAX CHOKE IN 175 DC MAX											5R4GY 5R4GYA
5T4	TWIN DIODE	FIL	5.0	2.0	5T-OW5	10A				FULL WAVE RECTIFIER	450 RMS MAX COND IN 225 DC MAX TUBE DROP 45v AT 225ma DC 550 RMS MAX CHOKE IN 225 DC MAX											5T4
5T8	TRIP-DI-TRI	HTR	4.7	0.6	9E-MB9	5BB	2.4	1.5	1.1	DET-AMP	250	—3		1.0		70		1200				5T8
5U4G 5U4GA 5U4BG	TWIN DIODE	FIL	5.0	3.0	5T-OM8	16AA 11ABD 12GD				FULL WAVE RECTIFIER	450 RMS MAX COND IN 225 DC MAX TUBE DROP 58v AT 225ma DC 550 RMS MAX CHOKE IN 225 DC MAX											5U4G 5U4GA 5U4GB
5U8	TRIODE PENTODE	HTR	4.7	0.6	9AE-MB9	5BB	1.8 0.01	2.5 5.0	1.0 2.6	TRIODE SECT PENTODE SECT	150 250	Rk 56 Rk 68		18 10	3.5	40	0.4MEG	8500 5280			—12 —10	5U8
5V3	DBLE DIODE	FIL	5.0	3.8	5T-OM8	12GD				FW RECTIFIER	MAX PEAK INVERSE = 1400 volts; MAX Io = 350 ma											5V3
5V4G 5V4GA	TWIN DIODE	HTR	5.0	2.0	5L-OM5	14BA 12GB				FULL WAVE RECTIFIER	375 RMS MAX COND IN 175 DC MAX TUBE DROP 23v AT 175ma DC 550 RMS MAX CHOKE IN 225 DC MAX											5V4G 5V4GA

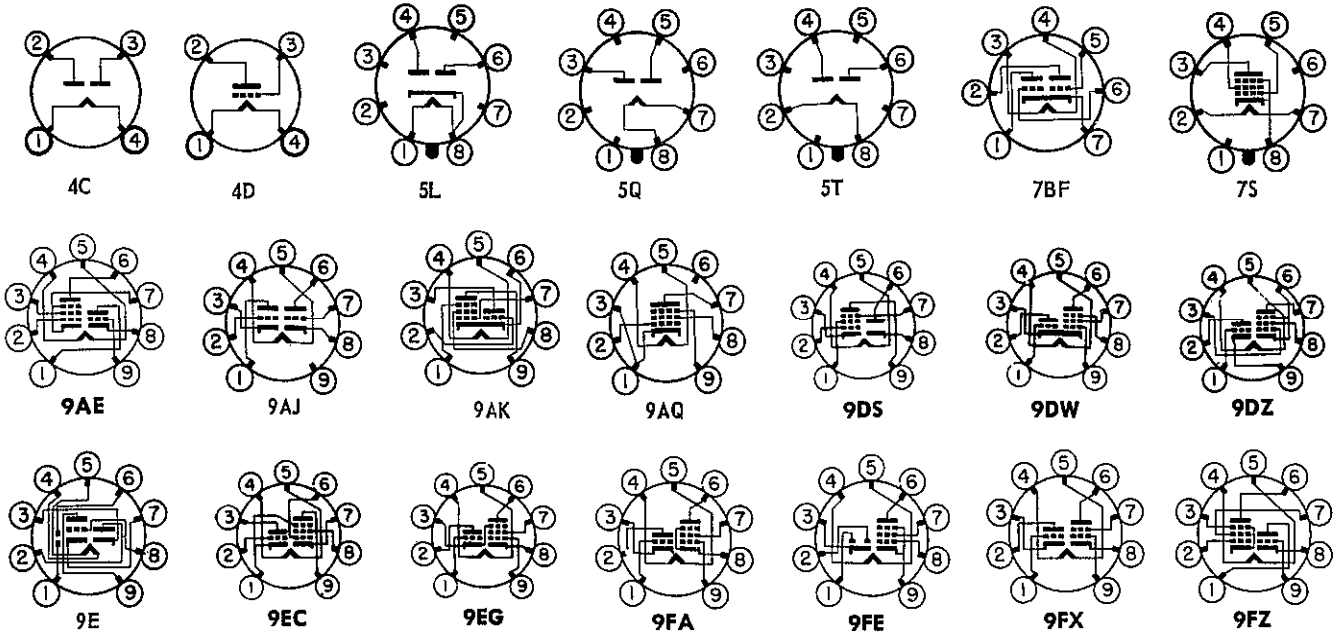
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
5V6GT	BEAM POWER AMP	HTR	4.7	0.6	7S-OW7	9DB				CI A AMP	250	—12.5	250	45	4.5		52000	4100	4.5	5000		5V6GT
5W4 5W4GT	TWIN DIODE	FIL	5.0	1.5	5T-OW5 5T-OGT5	8FA 9DB				FULL WAVE RECTIFIER	350 RMS MAX COND IN 100 DC MAX TUBE DROP 45v AT 100ma DC 500 RMS MAX CHOKE IN 100 DC MAX											5W4 5W4GT
5X3	TWIN DI	FIL	5.0	2.0	4C-SM4	14BA				F W RECT	1275 RMS MAX COND IN 30 DC MAX											5X3
5X4G	TWIN DI	FIL	5.0	3.0	5Q-OM8	16AA				F W RECT	450 RMS MAX COND IN 225 DC MAX TUBE DROP 58v AT 225ma DC 550 RMS MAX CHOKE IN 225 DC MAX											5X4G
5X4GA	TWIN DI	FIL	5.0	3.0	5Q-OM8	12GD				F W RECT	450 RMS MAX COND IN 250 DC MAX TUBE DROP 44v AT 225ma DC 550 RMS MAX CHOKE IN 250 DC MAX											5X4GA
5X8	TRIODE PENTODE	HTR	4.7	0.6	9AK-MB9	5BB	1.4 0.06	2.6 4.5	1.0 1.2	TRIODE SECT PENTODE SECT	100 250	Rk 100 Rk 200	150	8.5 7.7	1.6	40	0.65MEG	5800 4600			—10 —8	5X8
5Y3GT 5Y3GA 5Y4G 5Y4GT 5Y4GA	TWIN DIODE	FIL	5.0	2.0	5T-OM5 5T-OM5 5Q-OM8 5Q-OS6 5Q-OM8	9DB 12GD 14AA 9DB 12GD				FULL WAVE RECTIFIER	350 RMS MAX COND IN 125 DC MAX TUBE DROP 60v AT 125ma DC 500 RMS MAX CHOKE IN 125 DC MAX											5Y3GT 5Y3GA 5Y4G 5Y4GT 5Y4GA
5Z3	TWIN DI	FIL	5.0	3.0	4C-SM4	16AA				F W RECT	450 RMS MAX COND IN 225 DC MAX TUBE DROP 58v AT 225ma DC 550 RMS MAX CHOKE IN 225 DC MAX											5Z3
5Z4 5Z4GT	TWIN DIODE	HTR	5.0	2.0	5L-OW5 5L-OGT5	8FA 9DB				FULL WAVE RECTIFIER	350 RMS MAX COND IN 125 DC MAX TUBE DROP 20v AT 125ma DC 500 RMS MAX CHOKE IN 125 DC MAX											5Z4 5Z4GT
6A3	TRIODE	FIL	6.3	1.0	4D-SM4	16AA	16	7	5	PR AMP CL A PUSH-PULL CL AB 2 TUBE	250 325 325	—45 —68 SELF		60 80 80	4.2 750 OHM BIAS RES		800	5250	3.2 15 10	2500 3000 5000		6A3

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6A4/LA	PENTODE	FIL	6.3	.3	5K-SM5	14BA				PR AMP CL A PUSH-PULL CL AB 2 TUBE	180 250	—12 SELF	180 230	22 32	3.9 700	100 OHM BIAS RES	45500	2200	1.4 4.2	8000 16000		6A4/LA
6A5G	TRIODE	HTR	6.3	1.25	6T-OM8	16AA	16	7	5	PR AMP CL A PUSH-PULL CL AB 2 TUBE	250 325 325	—45 —68 SELF		60 80 80	 750	4.2 OHM BIAS RES	800	5250	3.75 15 10	2500 3000 5000		6A5G
6A6	TWIN TRIODE	HTR	6.3	.8	7B-SM7	14BA	(SEE TYPE 6N7G ALSO)			AMP CL A TRI IN PAR'L	294 250	—6 —5		7 6		35 35	11000 11300	3200 3100				6A6
6A7 6A7S 6A8 6A8G 6A8GT	HEPTODE	HTR	6.3	.3	7C-SS7 7C-SS7 8A-OW8 8A-OS8 8A-OW8	12DA 8DA 12CA 9CA	.3* .03 .26* .26*	8.5 12.5 9.5* 9.5*	9.0 12.5 12* 12*	OSC SECT MIXER	250S 100 250 100	.05MEG .05MEG —3 —1.5	 100 50	4.0 2.0 3.5 1.1	 2.7 1.3		GRID #2 RES. 02 MEG .36MEG .6 MEG	 550C 360C			—35 —20	6A7 6A7S 6A8 6A8G 6A8GT
6AB4	TRIODE	HTR	6.3	.15	5CE-MB7	5AC	1.5*	2.4	1.4	RF AMPLIFIER	100 250	—1 —2		3.7 10		54 55		4000 5500			—6 —12	6AB4
6AB5/6N5	ELEC RAY	HTR	6.3	.15	6R-SS6	9FD				TUNING IND	135 THRU .25 MEG, TARGET 135v, GRID 0v FOR 90°, —10.0v FOR 0°											6AB5/6N5
6AB6G	DUO TRIODE	HTR	6.3	0.5	7AU-OS7	12BB	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP	250 250	0 +		5 34		72	4000	1800	3.5	8000		6AB6G
6AB7/1853	PENTODE	HTR	6.3	.45	8N-OW8	8BB	.015	8	5	HIGH FREQ AMPLIFIER	300 300	—3 —3	200 300 THRU .03 MEG (OTHER VALUES SAME AS ABOVE)	12.5	3.2	.7 MEG	5000				—15 —22.5	6AB7/1853
6AB8	TRIODE PENTODE	HTR	6.3	.3	9AT-MB9	5BC	.2 1.0	4.6 2.3	4.7 1.1	TRIODE SECT PENTODE SECT	100 200	—2 —7.7	 200	4 17.5	 3.3	18	 .15MEG	1350 3400	 1.4	 11000		6AB8
6AC5G 6AC5GT	TRIODE	HTR	6.3	.4	6Q-OS6 6Q-OGT6	12BA 9DB	ONE 76 DRIVER TWO 76 DRIVERS			DIR C'P'D AMP PUSH-PULL CL B 2 TUBE	250 250 250	SUPPLIED BY DRIVERS 0		32 64 5 NO SIGNAL		125	36700	3400	3.7 9.5 8	7000 10000 10000		6AC5G 6AC5GT
6AC6GT	DUO TRIODE	HTR	6.3	1.1	7W-OGT7	9DB	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP	180 180	0 +		7 45		54	18000	3000	3.8	4000		6AC6GT
6AC7/1852	PENTODE	HTR	6.3	.45	8N-OW8	8BB	.015	11	5	HIGH FREQ AMPLIFIER	300 300	SELF SELF	150 300 THRU .06 MEG (OTHER VALUES SAME AS ABOVE) REMOTE	10	2.5	1.0MEG	9000	160 OHM —BIAS RES				6AC7/1852
6AD4	TRIODE	HTR	6.3	.15	8DK	3AA	.7*	1.9*	2.2*	OSC-AMP	100	RK820		1.4		70	.035MEG	2000				6AD4
6AD5G	TRIODE	HTR	6.3	0.3	6Q-OS6	12BA	3.3	4.1	3.9	AMP CL A	250	—2		0.9		100	66000	1500				6AD5G
6AD6G	TWIN ELEC RAY	HTR	6.3	.15	7AG-OW7	9BA				TUNING INDICATOR	TARGET 150v CONTROL ELECTRODE 75v AT 0°, 8v AT 90°, —50v AT 135° TARGET 100v CONTROL ELECTRODE 45v AT 0°, 0v AT 90°, —23v AT 135°											6AD6G
6AD7G	TRIODE PENTODE	HTR	6.3	.85	8AY-OM8	14BA	TRIODE SEC PENTODE SEC			AMP CL A PR AMP CL A	250 250	—25 —16.5	 250	3.7 34	 6.5	6	19000 80000	325 2500	 3.2	 7000		6AD7G
6AD8	DBLE DI PENTODE	HTR	6.3	.3	9T-MB9	5BC	.002	4.0	4.6	DET-AMP	250	RK 225	85	6.7	2.3		1 MEG	1100			—15	6AD8
6AE5GT	TRIODE	HTR	6.3	.3	6Q-OGT6	9DB				AMP CL A	95	—15		7		4.2	3500	1200				6AE5GT
6AE6G	DUO TRIODE	HTR	6.3	.15	7AH-OS7	12BA				CONTROL FOR 6AD6G-6AF6G	250 250	—1.5 —1.5		6.5 4.5		25 33		1000 950	PLATE R PLATE L		—35 —9.5	6AE6G
6AE7GT	TWIN TRIODE	HTR	6.3	.5	7AX-OGT8	9DB				DRIVER 1 SEC TRIODE	250	—13.5		5		14	9300	1500				6AE7GT
6AF4 6AF4A	TRIODE	HTR	6.3	.225	7DK-MB7	5AC 5AA	1.9	2.2	.45	UHF OSC	80	RK 150		16		15	2270	6600				6AF4 6AF4A
6AF5G	TRIODE	HTR	6.3	.3	6Q-OS6	12BA				AMP CL A	180	—18		7		7.4	4900	1500				6AF5G

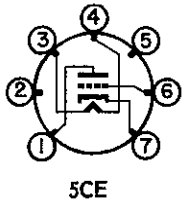
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P	IN	OUT	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
							mmfds	mmfds	mmfds													
6AF6G	TWIN ELEC RAY	HTR	6.3	.15	7AG-OS7	9FA				TUNING INDICATOR	TARGET 135v CONTROL ELECTRODE 81v AT 0°, 0v AT 100° TARGET 100v CONTROL ELECTRODE 60v AT 0°, 0v AT 100°											6AF6G
6AC5	PENTODE	HTR	6.3	0.3	7BD-MB7	5AC	0.025	6.5	1.8	AMP CL A	250	—2	150	7	2		0.8MEG	5000			—8	6AG5
6AG7	PENTODE	HTR	6.3	.65	8Y-OW8	8FA	.06*	13.0*	7.5*	AMP CL A	300	—3	150	30	7		0.13MEG	11000	3	10000	—8	6AG7
6AH4GT	TRIODE	HTR	6.3	.75	8EL-OS6	9DB	4.2*	7.5*	3.2*	VERTICAL AMP	250	—23		30		8		4500			—40	6AH4GT
6AH5G	PWR AMP	HTR	6.3	0.9	6AP-OM8	16AA				PR AMP CL A	350	—18	250	54	2.5		33000	5200	10.8	4200		6AH5G
6AH6	PENTODE	HTR	6.3	0.45	7BK-MB7	5AC	0.02	10	3.6	VOLTAGE AMP	300	Rk 160	150	10	2.5		0.5MEG	9000			—7	6AH6
6AH7GT	TWIN TRI	HTR	6.3	.3	8BE-OGT8	9BC	2.2(1) 3.0(2)	3.2(1) 2.9(2)	3.0(1) 2.6(2)	CL A 1 SECT	250 100	—9 —3.6		12 3.7		16 16	6600 10300	2400 1550			—30 —8.5	6AH7GT
6AJ4	TRIODE	HTR	6.3	.225	9BX-MB9	5BA	2.8*	4.6*	1.4*	RF AMPLIFIER	125	RK 68		16		42		10000				6AJ4
6AJ5	PENTODE	HTR	6.3	0.175	7BD-MB7	5AA	0.01	4.1	2.0	VOLTAGE AMP	28	Rk 200	28	3.0	1.2		90000	2750				6AJ5
6AK5	PENTODE	HTR	6.3	0.175	7BD-MB7	5AA	0.01	4.3	2.1	AMP CL A	180	—2	120	7.7	2.4		0.69MEG	5100			—12	6AK5
6AK6	PENTODE	HTR	6.3	0.15	7BK-MB7	5AC	0.12	3.6	4.2	POWER AMPLIFIER	180 135	—9 —6	180 135	15 11.5	2.5 2.0	400 360	.19MEG .17MEG	2300 2100	1.1 0.6	10000 12000		6AK6
6AK8	TRIPLE DIODE-TRI	HTR	6.3	.45	9E-MB9	5BC	.04	1.9	1.6	AMP CL A	100 250	—1 —3		0.8 1.0		70 70		1300 1200				6AK8
6AL5	DOUBLE DIODE	HTR	6.3	0.3	6BT-MB7	5AA			3.2	DISCRIMINATOR	MAX INVERSE =330v MAX Io = 9madc PER PLATE											6AL5
6AL6G	BEAM PWR AMP	HTR	6.3	.9	6AM-OM7	16BA				POWER AMP CLASS A	250 250	—14 SELF	250 250	72 75	5 5.4	170	22500 OHM BIAS RES	6000	6.5 6.5	2500 2500		6AL6G

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES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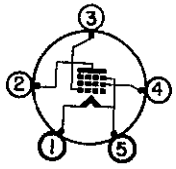
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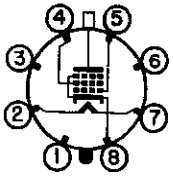
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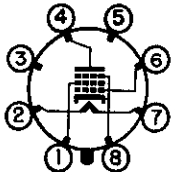
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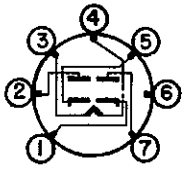
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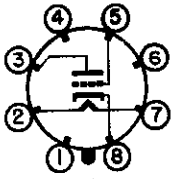
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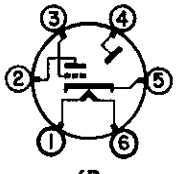
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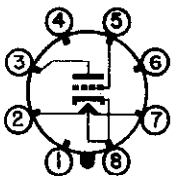
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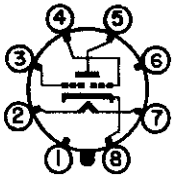
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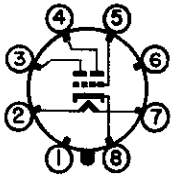
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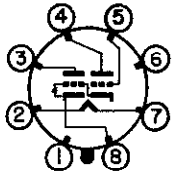
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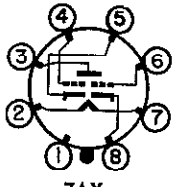
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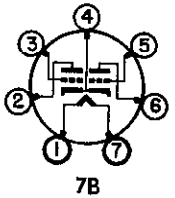
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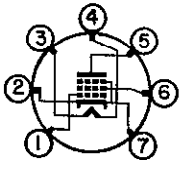
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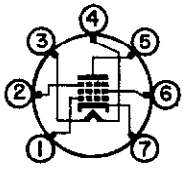
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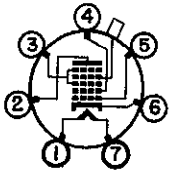
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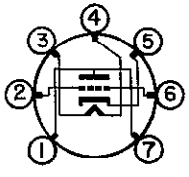
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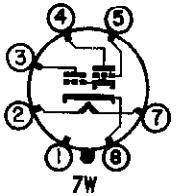
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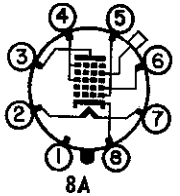
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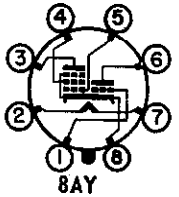
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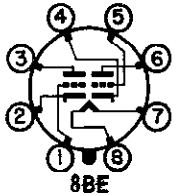
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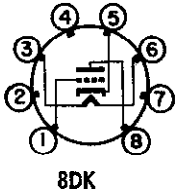
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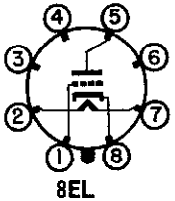
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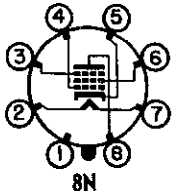
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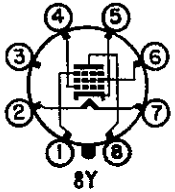
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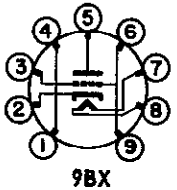
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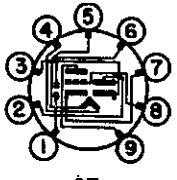
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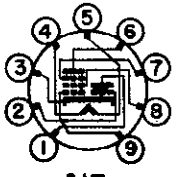
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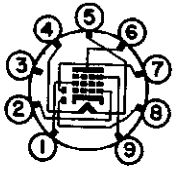
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TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6AL7GT	ELEC RAY	HTR	6.3	0.15	8CH-OGT8	9DA				TUNING IND	TARGET = 315v, GRID = 0v, RK = 3300 ohms										—7	6AL7GT
6AM4	TRIODE	HTR	6.3	.225	9BX-MB9	5BA	2.8*	4.6*	.16	UHF MIXER	150	RK 100		7.5		85		9000			—5	6AM4
6AM8 6AM8A	DIODE PENTODE	HTR	6.3	.45	9CY-MB9	5BB 5BB	.015	6	2.6	DET-AMP	200	RK 120	150	9.5	3		.3 MEG	5800			—9	6AM8 6AM8A
6AN4	TRIODE	HTR	6.3	.225	7DK-MB7	5AA	1.7	2.9	.25	UHF MIXER	200	RK 100		13		70		9000				6AN4
6AN5	PENTODE	HTR	6.3	0.45	7BD-MB7	5AC	0.075	9.0	4.8	POWER AMP	120	RK120	120	35	12		12500	8000	1.3	2500	—20	6AN5
6AN6	QUAD DIODE	HTR	6.3	0.20	7BJ-MB7	5AC				RECTIFIER	MAX INVERSE =210v			MAX Io = 8madc PER DIODE								6AN6
6AN8 6AN8A	TRIODE PENTODE	HTR	6.3	0.45	9DA-MB9	5BB 5BB	1.5 0.04	2.0 7.0	0.27 2.3	AMPLIFIER	300	Rk 180		13		19	5750	3300				6AN8 6AN8A
6AQ4	TRIODE	HTR	6.3	.3	7DT-MB7	5AC	2.5	8.5	.2	RF AMPLIFIER	250	—1.5		10		100		8500				6AQ4
6AQ5 6AQ5A	BEAM PENTODE	HTR	6.3	0.45	7BZ-MB7	5AD 5AD	0.17	8.0	11.0	POWER AMP	250	—12.5	250	45	4.5		52000	4100	4.5	5000		6AQ5 6AQ5A
6AQ6	DOUBLE DI-TRI	HTR	6.3	0.15	7BT-MB7	5AC	1.8	1.7	1.5	DET-AMP	250	—3		1		70		1200				6AQ6
6AQ7GT	DOUBLE DI-TRI	HTR	6.3	0.3	8CK-OGT8	9DB	3.0	2.8	3.2	DET-AMP	250	—2		2.3		70		1600				6AQ7GT
6AR5	PENTODE	HTR	6.3	0.4	6CC-MB7	5AD				POWER AMP	250	—18	250	32	5.5		68000	2300	3.4	7600		6AR5
6AR7GT	DBLE DI PENTODE	HTR	6.3	.3	7DE-OW8	9CB	.003	5.5	7.5	DET-AMPLIFIER	250	—2	100	7.0	1.8		1.2MEG	2500			—25	6AR7GT
6AR8	SHEET BEAM	HTR	6.3	0.3	9DP-MB9	5BC				SYNCH DETECTOR	SPECIAL CIRCUIT FOR COLOR TV											6AR8
6AS4GT	DIODE	HTR	6.3	1.2	4CG-OS6	9DB				DAMPER	MAX PEAK INVERSE = 5500 V; MAX Io = 125ma											6AS4GT
6AS5	BEAM PENTODE	HTR	6.3	0.8	7CV-MB7	5AD	0.6	12	6.2	POWER AMP	150	—8.5	110	35	2			5600	2.2	4500		6AS5
6AS6	PENTODE	HTR	6.3	0.175	7CM-MB7	5AA	0.01	3.9	3	VOLTAGE AMP	120	—2	120	5.2	3.5			3200			—10	6AS6
6AS7G 6AS7GA	DBLE TRI	HTR	6.3	2.5	8BD-OM8	16AA 12ED				POWER AMP	135	Rk 250		125		2.1		7500			Each Unit	6AS7G 6AS7GA
6AS8	DIODE PENTODE	HTR	6.3	0.45	9DS-MB9	5BB	0.02	2.4	7.0	DET-AMP	200	Rk 180	150	9.5	3		0.3 MEG	6200			—8	6AS8
6AT6	DOUBLE DI-TRI	HTR	6.3	0.3	7BT-MB7	5AC	2.1	2.3	1.1	DET-AMP	250	—3		1		70		1200				6AT6
6AT8	TRIODE PENTODE	HTR	6.3	0.45	9DW-MB9	5BB	1.5	2.0	0.5	OSCILLATOR MIXER	100 250	150	Rk 200	8.5 7.7	1.6	40	0.75MEG	5800 4600			—10	6AT8
6AU4GT 6AU4GTA	DIODE	HTR	6.3	1.8	4CG-OS6	9FB 9FB				DAMPER	MAX PEAK INVERSE = 4500 V; MAX Io = 175ma											6AU4GT 6AU4GTA
6AU5GT	BM PENT	HTR	6.3	1.25	6CK-OS6	9DB	.5	11.3	7.0	HORIZ. AMP	315	Rk 80	150	59	9							6AU5GT
6AU6 6AU6A	PENTODE	HTR	6.3	0.3	7BK-MB7	5AC 5AC	.0035	5.5	5	VOLTAGE AMP	250	—1	150	10.8	4.3		1 MEG	5200			—6.2	6AU6 6AU6A
6AU8	TRIODE PENTODE	HTR	6.3	0.6	9DX-MB9	5BC	2.2 0.046	2.8 7.0	0.32 2.6	AMPLIFIER	150 200	Rk 150 Rk 82	125	8.5 15	3.4		8200 150000				—6.5 —8	6AU8
6AV4	DBLE DI	HTR	6.3	.95	5BS-MB7	5AD				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX Io = 90ma											6AV4
6AV5GA	BM PENT	HTR	6.3	1.2	6CK-OM6	11AB	0.5	14	7.0	AMPLIFIER	250	—22.5	150	57	2.1		14500	5900			—43	6AV5GA

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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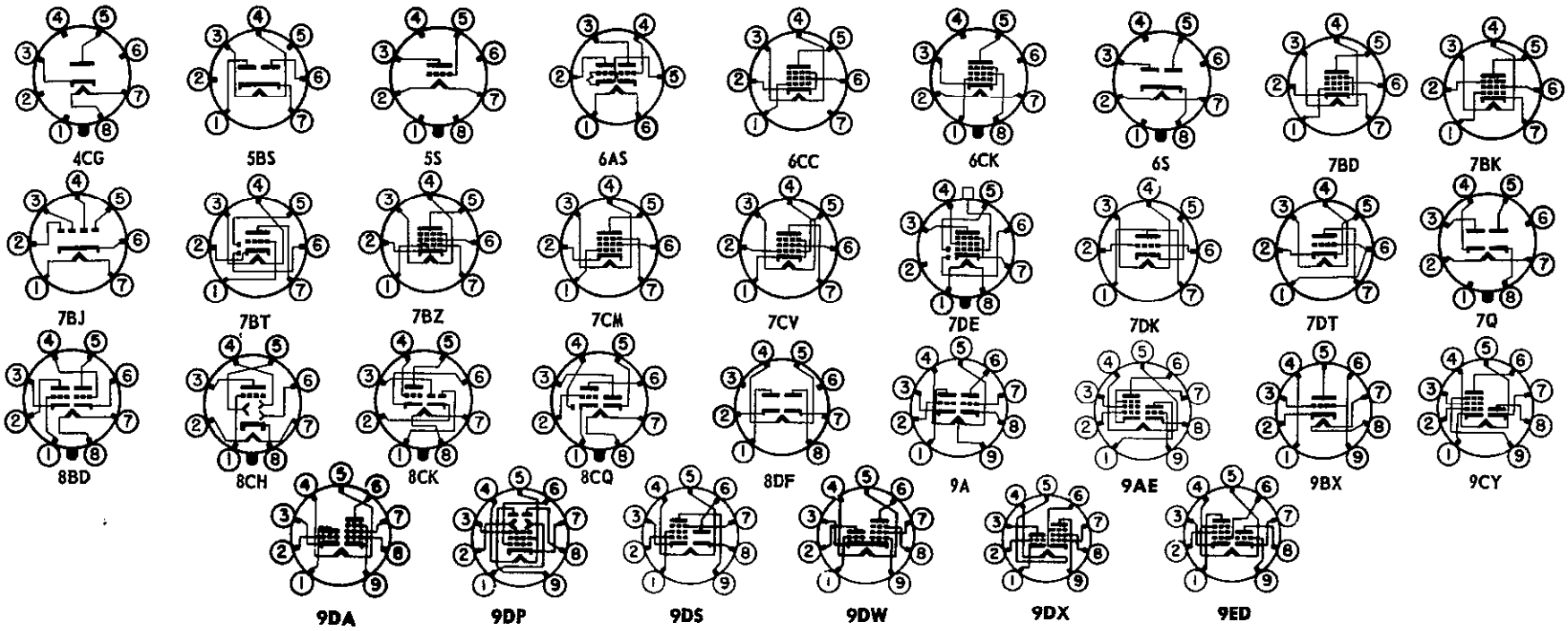
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6AV5GT	BM PENT	HTR	6.3	1.2	6CK-OGT6	9DB				HORIZ. AMP	200	0	125	66	12							6AV5GT
6AV6	DOUBLE DI-TRI	HTR	6.3	0.3	7BT-MB7	5AC	2.1	2.3	0.9	DET-AMP	250	—2		1.2		100		1600				6AV6
6AW7GT	DOUBLE DI-TRI	HTR	6.3	0.3	8CQ-OW8	9BD				DET-AMP	100	0		1.4		80		1200				6AW7GT
6AW8 6AW8A	TRIODE PENTODE	HTR	6.3	0.6	9DX-MB9	5BC 5AD	2.2 0.036	3.2 10.0	0.32 3.6	SYNCH SEP. AMPLIFIER	200	—2	150	4.0 13.0	3.5	70	0.4MEG	4000 9000			—5 —10	6AW8 6AW8A
6AX4GT	DIODE	HTR	6.3	1.2	4CG-OS5	9DB				DAMPER	MAX PEAK INVERSE = 4000 V; MAX Io = 125ma											6AX4GT
6AX5GT	DBLE DI	HTR	6.3	1.2	6S-OS6	9DB				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX Io = 150ma											6AX5GT
6AX6G	DBLE DI	HTR	6.3	2.5	7Q-OM7	14BA				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX Io = 250ma											6AX6G
6AX7	DOUBLE TRIODE	HTR	6.3	0.3	9A-MB9	5BB	1.7	1.6	0.46	VOLTAGE AMP	250 100	—2 —1		1.2 0.5		100		1600 1250				6AX7
6AX8	TRIODE PENTODE	HTR	6.3	0.45	9AE-MB9	5BB	0.006	2.5	1.0	SYNC SEP AMPLIFIER	150 250	Rk 120	110	18 10	3.5	40		8500 4800			—12	6AX8
6AZ5	DBLE DI	HTR	6.3	.15	8DF	3AA				DETECTOR	MAX PEAK INVERSE = 420 V; MAX Io = 8ma											6AZ5
6AZ8	TRIODE PENTODE	HTR	6.3	0.45	9ED-MB9	5BB	1.7 0.02	2.0 6.5	1.7 2.2	OSCILLATOR AMPLIFIER	200 200	—6	150	13 9.5	3.0	19	0.3MEG	3300 6000			—19	6AZ8
6B4G	TRIODE	FIL	6.3	1.0	5S-OM8	16AA	16	7	5	PR AMP CL A PUSH-PULL CL AB 2 TUBE	250 325 325	—45 —68 SELF		60 80 80	750 OHM BIAS RES	4.2	800	5250	3.2 15 10	2500 3000 5000		6B4G
6B5	DUO-TRI	HTR	6.3	.8	6AS-SM6	14BA	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP 2 TUBES CL A	325 325	0 +		9 51				See Type 6N6G Also 13.5 10000				6B5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



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TYPE	DESIGN	CATHODE HTR OR FIL			BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	VOLTS	AMPS			G-P mmfds	IN mmfds	OUT mmfds													
6B6G	DUO-DI TRIODE	HTR	6.3	.3	7V-OS7	12CA	1.3	2.7	4.5	AMPLIFIER CLASS A	250	—2		0.9		100	91000	1100				6B6G
6B7 6B7S	DUO-DI PENTODE	HTR	6.3	.3	7D-SS7 7D-SS7	12DA	.007*	3.5	9.5	AMPLIFIER CLASS A	250 100	—3 —3	125 100	9.0 5.8	2.3 1.7		.6MEG .3MEG	1125 950			—21 —17	6B7 6B7S
6B8 6B8G 6B8GT	DUO-DI PENTODE	HTR	6.3	.3	8E-OW8 8E-OS8 8E-OW8	8DA 12CA 9CB	.005 .01* 0.005*	6 3.6* 4.5*	9 9.5* 10*	AMPLIFIER CLASS A	250 100	—3 —3	125 100	10 5.8	2.3 1.7		.6MEG .3MEG	1325 950			—21 —17	6B8 6B8G 6B8GT
6BA6	PENTODE	HTR	6.3	0.3	7BK-MB7	5AC	.0035	5.5	5.0	VOLTAGE AMP	250	Rk 68	100	11	4.2		1 MEG	4400			—20	6BA6
6BA7	PENTA-GRID	HTR	6.3	0.3	8CT-MB9	5BC	0.19	9.5	8.3	CONVERTER	250	—1.0	100	3.8	10.0		1 MEG	950C			—20	6BA7
6BA8 6BA8A	TRIODE PENTODE	HTR	6.3	0.6	9DX-MB9	5BC 5BC	2.2 0.04	2.5 10.0	0.4 3.6	AMP CL A	200 200	—8	150	8.0 13.0	3.5	18	0.4MEG	2700 9000			—16 —10	6BA8 6BA8A
6BC4	TRIODE	HTR	6.3	0.23	9DR-MB9	5AA	1.6	2.9	0.26	RF AMPLIFIER	150	Rk 100		14.5		48	4800	10000			—10	6BC4
6BC5	PENTODE	HTR	6.3	.3	7BD-MB7	5AC	.02*	6.6*	3.1*	CL A AMP	100 250	Rk 180 Rk 180	100 150	4.7 7.5	1.4 2.1		.6MEG .8MEG	4900 5700			—5 —8	6BC5
6BC7	TRIPLE DI	HTR	6.3	.45	9AX-MB9	5BB				FM DETECTOR	MAX Io = 12ma per plate											6BC7
6BC8	DOUBLE TRIODE	HTR	6.3	0.4	9AJ-MB9	5BB	1.4	2.5	1.3	CASCADE AMPLIFIER	150	Rk 220		10		35		6200			—13	6BC8
6BD4 6BD4A	BEAM TRIODE	HTR	6.3	0.6	8FU-OJ6	12HE 12HE	1.0	3.8	0.04	VOLTAGE REGULATOR	MAX DC PLATE = 27000 volts; MAX Io = 1.5 ma											6BD4 6BD4A
6BD5GT	BM PENT	HTR	6.3	.9	6CK-OGT6					HORIZ. AMP	MAX Ik = 100ma; MAX PEAK POS. PLATE SURGE = 4000 V											6BD5GT
6BD6	PENTODE	HTR	6.3	0.3	7BK-MB7	5AC	0.004	4.3	5.0	VOLTAGE AMP	250	—3	100	9	3		0.8MEG	2000			—35	6BD6
6BD7	DBLE DI TRIODE	HTR	6.3	.23	9Z-MB9	5BC	1.3	2.4	1.3	DET-AMPLIFIER	250	—3		1.0		70		1200				6BD7
6BE6	HEPTODE	HTR	6.3	0.3	7CH-MB7	5AC	0.3	7.2	8.6	CONVERTER	250	—1.5	100	3	7.1		1 MEG	475C			—30	6BE6
6BE8	TRIODE PENTODE	HTR	6.3	0.45	9EG-MB9	5BB	1.8 0.04	2.8 4.4	1.5 2.6	OSCILLATOR MIXER	150 250	Rk 68	110	18 10	3.5	40	0.4MEG	8500 6200			—12 —10	6BE8
6BF5	PENTODE	HTR	6.3	1.2	9BZ-MB9	5AD	.65	14	6	VERT. AMP	225	Rk 1200 TRIODE 20 CONN.				6.7		4200				6BF5
6BF6	DOUBLE DI-TRI	HTR	6.3	0.3	7BT-MB7	5AC	2	1.8	1.4	DET-AMP	250	—9		9.5		16		1900				6BF6
6BG6G	BEAM PENTODE	HTR	6.3	0.9	5BT-OM6	16CA	0.5	11	6.5	DEFLECT AMP	MAX PEAK POS. PLATE SURGE = 6000v, MAX Ib = 100ma											6BG6G
6BG6GA	BEAM PENTODE	HTR	6.3	0.9	5BT-OM6	12JE	0.5	11.0	6.5	DEFLECT AMP	MAX PEAK POS. PLATE SURGE = 6000 volts MAX Ib = 100 ma											6BG6GA
6BH5	PENTODE	HTR	6.3	.2	9AZ-MB9	5BC	.002	4.9	5.5	RF AMPLIFIER	250	—2.5	100	6.0	1.7		1.1MEG	2200			—18	6BH5
6BH6	PENTODE	HTR	6.3	0.15	7CM-MB7	5AC	.0035	5.4	4.4	VOLTAGE AMP	250	—1	150	7.4	2.9		1.4MEG	4600			—7.7	6BH6
6BH8	TRIODE PENTODE	HTR	6.3	0.6	9DX-MB9	5BC	2.4 0.046	2.6 7.0	0.38 2.4	AMPLIFIER	150 200	—5	125	9.5 15.0	3.4	17	5150	3300 7000			—14 —8	6BH8
6BJ5	BM PENT	HTR	6.3	.64	6CH-M57	5AD				POWER AMP	250	—5.0	250	35	5.5		40000	10500	4	7000		6BJ5
6BJ6	PENTODE	HTR	6.3	0.15	7CM-MB7	5AC	.0035	4.5	5	VOLTAGE AMP	250	—1	100	9.2	3.3		1.3MEG	3800			—20	6BJ6
6BJ7	TRIPLE DIODE	HTR	6.3	.45	9AX-MB9	5BB				DC RESTORER	MAX PEAK INVERSE = 330 V; MAX PEAK PLATE CURR PER PLATE = 10ma DC OUTPUT CURRENT PER PLATE 1.0ma DC											6BJ7
6BJ8	DBLE DI TRIODE		6.3	0.6	9ER-MB9	5AD	2.6	2.8	0.38	OSCILLATOR	90	0		13.5		22	4700	4700			—7	6BJ8

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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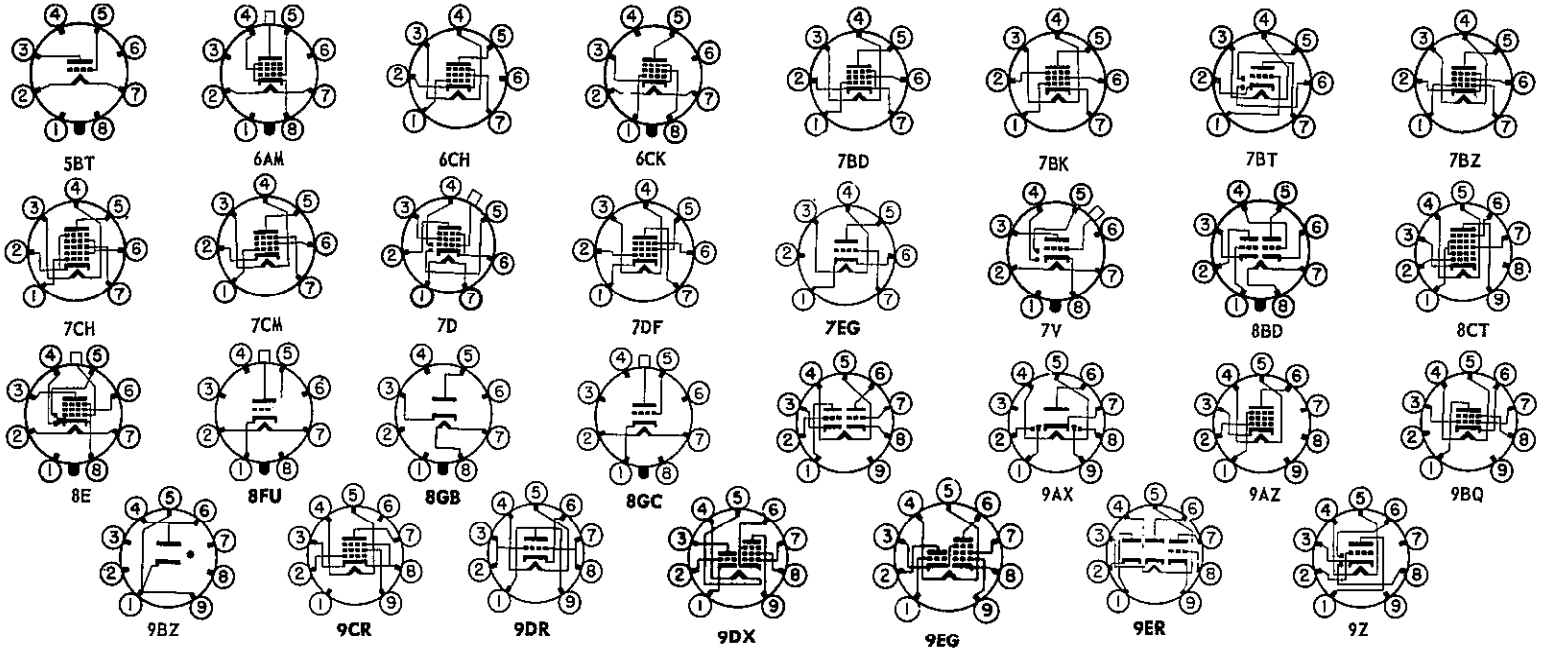
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES C-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6BK4	BEAM TRIODE	HTR	6.3	0.2	8GC-QT8	12HE				VOLTAGE REGULATOR	MAX DC PLATE = 25000 volts; MAX Io = 1.5 ma											6BK4
6BK5	BM PENT	HTR	6.3	1.2	9BQ-MB9	5BC	.6	13	5.0	POWER AMP	250	—5.0	250	35	3.5		.1MEG	8500	3.5	6500		6BK5
6BK6	DBLE DI TRIODE	HTR	6.3	.3	7BT-MB7	5AD				DET-AMP	100 250	—1 —2		0.5 1.2		100 100	80000 62500	1250 1600				6BK6
6BK7	TWIN TRIODE	HTR	6.3	.45	9AJ-MB9	5BB	1.9	3.0	1.1	RF AMPLIFIER	100 150	Rk 120 Rk 56		9.0 18		37 40	6100 4700	6100 8500			—9 —12	6BK7
6BK7A	TWIN TRIODE	HTR	6.3	.45	9AJ-MB9	5BB	1.8	3.0	1.0	RF AMPLIFIER	150	Rk 56		18		43	4600	9300			—11	6BK7A
6BK7B	TWIN TRIODE	HTR	6.3	0.45	9AJ-MB9	5BB	1.8	3.0	1.0	RF AMPLIFIER	150	Rk 56		18		43	4600	9300			—11	6BK7B
6BL4	DIODE	HTR	6.3	3.0	8GB-0J8	12ED	11.5	16	5	HW RECTIFIER	MAX PEAK INVERSE = 4500 volts; MAX Io = 200 ma											6BL4
6BL7GT	DBLE TRI	HTR	6.3	1.5	8BD-OS8	9DB	4.2*	5.0*	3.4*	VERT. AMP	250	—9		40		15		7000			—25	6BL7GT
6BM5	BM PENT	HTR	6.3	.45	7BZ-MB7	5AD	.5	8.0	5.5	POWER AMP	250	—6	250	30	3		60000	7000	3.5	7000		6BM5
6BN4	TRIODE	HTR	6.3	0.2	7EG-MB7	5AC	1.2	3.2	1.4	RF AMPLIFIER	150	Rk 220		9		43	6300	6800				6BN4
6BN5	PENTODE	HTR	6.3	0.2	9CR-MB9	5AD	0.2	4.3	5.1	AMPLIFIER	225	Rk 360	225	26	4.1	11		3200	2.8	9000		6BN5
6BN6	GATED BM	HTR	6.3	.3	7DF-MB7	5AD				DISCRIMINATOR	80	INPUT SIG. CENTER FREQ. = 10.7 Mc; FREQ. DEV = ± 75 Kc										6BN6
6BN7	DOUBLE TRIODE	HTR	6.3	.75	9AJ-MB9	5BC	3 .7	1.6 1.4	5.5 .3	SECTION 1 SECTION 2	250 120	—15 —1		24 5		12 28		5500 2000			—35 —7	6BN7
6BN8	DBLE DI TRIODE	HTR	6.3	0.6	9ER-MB9	5AD	2.5	3.6	0.32	AMPLIFIER	250	—3		1.6		70	28000	2500			—5.5	6BN8
6BQ6G	BM PENT	HTR	6.3	1.2	6AM-OS7	12CA	.6	15	7.5	HORIZ AMP	60	0	150	225	25		20000	5500				6BQ6G
6BQ6GA	BEAM	HTR	6.3	1.2	6AM-OGT6	11BB	0.6	15	7.5	POWER	250	—22.5	150	55	2.1		20000	5500			—46	6BQ6GA
6BQ6GTA	PENTODE					9EC				AMPLIFIER	250	—22.5	150	55	2.1		18000	6000				6BQ6GTA
6BQ6GTB						9EC															—46	6BQ6GTB

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



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TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6BQ6GT	BM PENT	HTR	6.3	1.2	6AM-OGT7	9EC	.95	14	9.5	HORIZ AMP	250	Rk 43	140	99	11.5	MAX PEAK POS. PLATE SURGE = 5500 V						6BQ6GT
6BQ7	DBLE TRI	HTR	6.3	.4	9AJ-MB9	5BB	1.15	2.55	1.3	RF AMPLIFIER	150	Rk 220		9		35	5800	6000			—10	6BQ7
6BQ7A	DBLE TRI	HTR	6.3	.4	9AJ-MB9	5BB	1.5	2.85	1.35	RF AMPLIFIER	150	Rk 220		9		39	6100	6400			—10	6BQ7A
6BR8	TRIODE PENTODE	HTR	6.3	0.45	9FA-MB9	5BB	1.8 0.015	2.5 5.0	0.4 2.6	OSCILLATOR MIXER	150 250	Rk 68	110	18 10	3.5	40	0.4MEG	8500 5200			—12 —10	6BR8
6BS8	DOUBLE TRIODE	HTR	6.3	0.4	9AJ-MB9	5BB	1.15	2.6	1.2	CASCADE AMPLIFIER	150	Rk 220		10		36	5000	7200			—7	6BS8
6BT6	DBLE DI TRIODE	HTR	6.3	.3	7BT-MB7	5AD				DET-AMPLIFIER	100 250	—1 —3		.8 1.0		70 70	54800 58000	1300 1200				6BT6
6BT8	DBLE DI PENTODE	HTR	6.3	0.45	9FE-MB9	5BB	0.04	1.3 7.0	3.0 2.3	DET-AMP	200	Rk 180	150	9.5	2.8		0.3MEG	6200			—8	6BT8
6BU4	TRIODE	HTR	6.3	0.45	8GC-OM8	12JE	0.03	2.0	8.0	VOLTAGE REGULATOR		—8.4				1515	8.2MEG	185				6BU4
6BU5	BEAM PENTODE	HTR	6.3	0.15	8FP-OM8	11BD	0.024	3.0	0.9	VOLTAGE REGULATOR	20000	—2.4	70	1.0	0.4						—6.5	6BU5
6BU6	DBLE DI TRIODE	HTR	6.3	.3	7BT-MB7	5AD				DET-AMPLIFIER	250	—9		9.5		16	8500	1900				6BU6
6BU8	TWIN PENTODE	HTR	6.3	0.3	9FG-MB9	5BC	1.9			SYNC AGC	100	—10	67.5	2.2	3.3			180			—4.5	6BU8
6BV7	DBLE DI PENTODE	HTR	6.3	.8	9BU-MB9	5BC	.5	11.5	9.5	DET-AMPLIFER	180 250	—4 —5	180 250	20 38	3.5 6.0		.13MEG .1 MEG	8000 10000	2.0 4.0	8000 8000		6BV7
6BV8	DBLE DI TRIODE	HTR	6.3	0.6	9FJ-MB9	5BB	2.0	3.6	0.4	SYNC DETECTOR	200	Rk 330		11		33	5900	5600			—11	6BV8
6BW4	DBLE DI	HTR	6.3	0.9	9DJ-MB9	5AD				FW RECTIFIER	MAX PEAK INVERSE = 1275 volts MAX Io = 350 ma											6BW4
6BW6	BM PENT	HTR	6.3	.45	9AM-MB9	5BC				POWER AMP	180 250	—8.5 —12.5	180 250	29 45	3. 4.5		58000 52000	3700 4100	2.0 4.5	5500 5000		6BW6
6BX6	PENTODE	HTR	6.3	.3	9AQ-MB9	5BC	.007	7.2	3.4	RF AMPLIFIER	170	—2	170	10	2.5		.4MEG	7200				6BX6
6BX7GT	DBLE TRI	HTR	6.3	1.5	8BD-OS8	9DB	4.0	4.8	1.2	VERT. AMP	100 250	0 Rk 390		80 42		10	1300	7600				6BX7GT
6BX8	DBLE TRI	HTR	6.3	0.4	9AJ-MB9	5BB	1.4	2.4	1.25	CASCDAE AMPLIFIER	65	—1.0		9		25		6700			—7	6BX8
6BY5G	DBLE DI	HTR	6.3	1.6	6CN-OM7	14BA				DAMPFER	MAX PEAK INVERSE = 3000 V; MAX Io = 175ma											6BY5G
6BY6	PENTAGRID	HTR	6.3	0.6	7CH-MB7	5AC	0.08			GATED AMPLIFIER	250	100		6.5				1900				6BY6
6BY7	PENTODE	HTR	6.3	.3	9AQ-MB9	5BC	.007	7.2	3.7	RF AMPLIFIER	250	—2	100	10	2.5		.5MEG	6000				6BY7
6BY8	DIODE PENTODE	HTR	6.3	0.6	9FN-MB9	5AD	0.0035	5.5	5.0	DETECTOR AMPLIFIER	100 250	Rk 150 Rk 68	100 150	5.0 10.6	2.1 4.3		0.5 MEG 1.0 MEG	3900 5200			—4.2 —6.5	6BY8
6BZ6	PENTODE	HTR	6.3	0.3	7CM-MB7	5AC	0.025	7.0	2.0	AGC IF AMPLIFIER	125	125		14			0.26MEG	8000				6BZ6
6BZ7	DBLE TRI	HTR	6.3	.4	9AJ-MB9	5BC	1.15	2.5	1.35	RF AMPLIFIER	150	Rk 220		10		38	5600	6800			—11	6BZ7
6BZ8	DBLE TRI	HTR	6.3	0.4	9AJ-MB9	5BB	1.15			CASCADE AMPLIFIER	125	Rk 100		10		45	5600	8000			—13	6BZ8

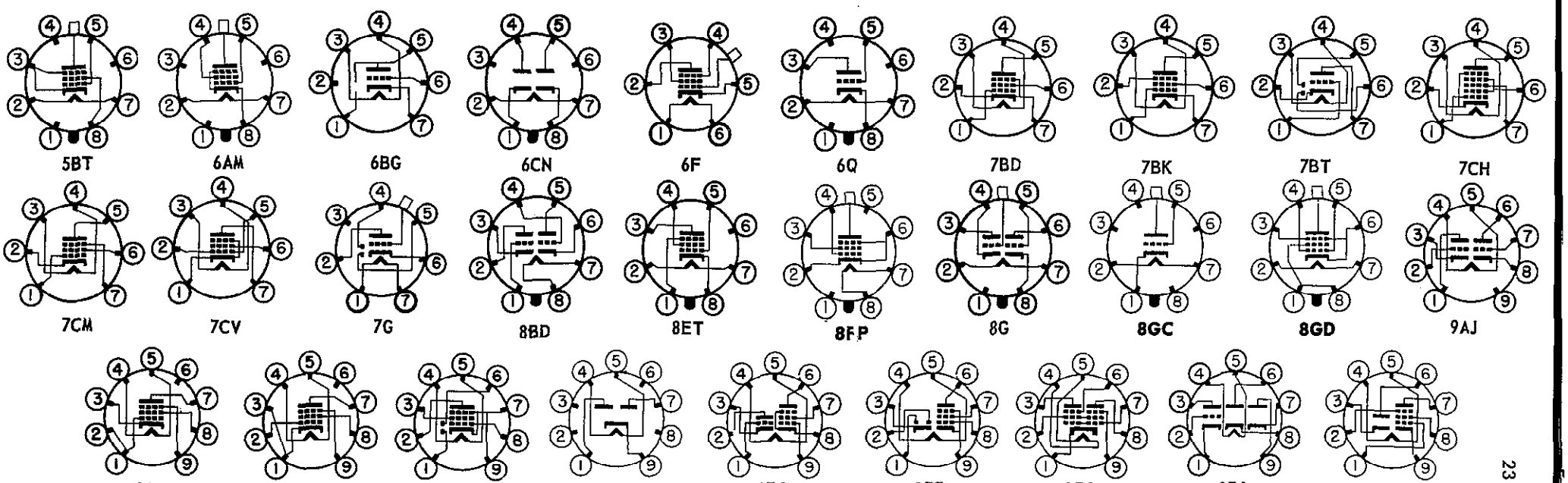
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6C4	TRIODE	HTR	6.3	0.15	6BG-MB7	5AC	1.6	1.8	1.3	H-F POWER TRIODE	250 100	—8.5 0		10.5 11.8			7700 6250	2200 3100				6C4
6C5 6C5GT	TRIODE	HTR	6.3	.3	6Q-OW6 6Q-OW6	8CA 9BC	2.0 2.2*	3.0 4.4*	11 12*	AMPLIFIER CLASS A	250	—8		8		20	10000	2000				6C5 6C5GT
6C6	PENTODE	HTR	6.3	.3	6F-SS6	12DB	.007*	5.0	6.5	AMPLIFIER CLASS A	250 100	—3 —3	100 100	2.0 2.0	.5 .5		1.5MEG 1 MEG	1226 1185			—7 —7	6C6
6C7	DUO-DI TRIODE	HTR	6.3	.3	7G-SS7					AMP CL A	250	—9		5.5		20	16000	1250				6C7
6C8G	TWIN TR	HTR	6.3	.3	8G-OS8	12CA				CL A 1 SECT	250	—4.5		3.2		36	22500	1600				6C8G
6CA5	BM PENT	HTR	6.3	1.2	7CV-MB7	5AD	0.5	15	9	AF AMPLIFIER	125	—4.5	125	36	4.0		15000	9200		4500		6CA5
6CA7	BM PENT	HTR	6.3	1.5	8ET-OGT8		1.0	15.5	7.2	POWER AMP	250	—14.5	150	70	10		18000	9000	8			6CA7
6CB5 6CB5A	BEAM PENTODE	HTR	6.3	2.5	8GD-OJ8	16BA 12HD	0.8 0.4	24 22	10 10	HORIZ. DEFLECT MAX PEAK POS PLATE PULSE= 6800 volts AMPLIFIER												6CB5 6CB5A
6CB6 6CB6A	PENTODE PENTODE	HTR HTR	6.3 6.3	.3 0.3	7CM-MB7 7CM-MB7	5AC 5AC	.02 0.025	6.3 6.5	1.9 2.0	RF PENTODE IF AMPLIFIER	200 125	Rk 180 125	150	9.5 13	2.8		.6MEG 0.28MEG	6200 8000			—8	6CB6 6CB6A
6CD6G 6CD6GA	BM PENT BEAM PENTODE	HTR HTR	6.3 6.2	2.5 2.5	5BT-OM6 5BT-OM8	16CA 12JE	1.0 1.1	2.6 22	10 8.5	HORIZ AMP HORIZ. DEFLECT AMPLIFIER	430 175	Rk 270 —30	165 175	112 75	14 5.5	MAX PULSE PEAK POS PLATE = 6000 V	7200	7700			—55	6CD6G 6CD6GA
6CE5	PENTODE	HTR	6.3	0.3	7BD-MB7	5AC	0.03	6.5	1.9	RF AMPLIFIER	125		125	11	2.3		0.3MEG	7600				6CE5
6CF6	PENTODE	HTR	6.3	0.3	7CM-MB7	5AC	.02	6.3	1.9	RF AMPLIFIER	200	Rk 180	150	9.5	2.8		.6MEG	6200			—6.5	6CF6
6CG6	PENTODE	HTR	6.3	.3	7BK-MB7	5AC	.008	5.0	5.0	RF AMPLIFIER	250	—8	150	9.0	2.3		.72MEG	2000			—24	6CG6
6CG7	TWIN TRIODE	HTR	6.3	0.6	9AJ-MB9	5AD	4.0	2.3	2.2	OSCILLATOR	250	—8		9		20	7700	2600			—18	6CG7

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6CG8 6CG8A	TRIODE PENTODE	HTR	6.3	0.45	9FA-MB9	5BB 5BB	1.5	2.6	0.05	OSCILLATOR MIXER	100 250	Rk 200	150	8.5 7.7	1.6	40	0.75MEG	5800 4600			—10	6CG8 6CG8A
6CH6	PENTODE	HTR	6.3	.75	9BA-MB9	5BC				RF AMPLIFIER	250	—4.5	250	40	6.0		50000	11000				6CH6
6CH8	TRIODE PENTODE	HTR	6.3	0.45	9FT-MB9	5BB	0.025	7	2.25	OSCILLATOR AMPLIFIER	200 200	Rk 180	150	13 9.5		19		3300 6200			—19 —8	6CH8
6CJ6	PENTODE	HTR	6.3	1.05	9AS-MB9	5CD	.8	14.7	6.0	CL A AMPLIFIER	250	—38.5	250	32	2.4		15000	4600				6CJ6
6CK6	PENTODE	HTR	6.3	.71	9AR-MB9	5BD	.1	11.2	6.6	CL A AMPLIFIER	250	—5.5	250	36	5		.13MEG	10000				6CK6
6CL5	BM PENT	HTR	6.3	2.5	8GD-OM8	12JE	0.7	20.0	11.5	AMPLIFIER	175	—40	175	90	7.0		6000	6500			—75	6CL5
6CL6	PENTODE	HTR	6.3	.65	9BV-MB9	5BC	.12	11	5.5	CL A AMPLIFIER	250	—3	150	30	7		.15MEG	11000	2.8	7500		6CL6
6CL8	TRIODE TETRODE	HTR	6.3	0.45	9FX-MB9	5BB	1.8 0.028	2.7 5.0	0.4 2.0	OSCILLATOR MIXER	125	—1.0	125	15 12	4.0	40	0.1MEG	8000 5800			—9 —10	6CL8
6CM6	BM PENT	HTR	6.3	.45	9CK-MB9	5BC	.7	8	8.5	VERT. AMP	MAX PEAK POS. PLATE = 2000 V MAX PLATE DISS. = 8 WATTS; MAX PEAK Ik = 120ma											6CM6
6CM7	DOUBLE TRIODE	HTR	6.3	0.6	9ES-MB9	5AD	3	3.5	0.4	OSCILLATOR AMPLIFIER	200 250	—7 —8				21	10500	2000 4400				6CM7
6CM8	TRIODE PENTODE	HTR	6.3	0.45	9FZ-MB9	5BB	1.9 0.02	1.6 6.0	0.22 2.6	IF AMPLIFIER	250 200	—2	150	1.8 9.5	2.8	100	0.6MEG	2000 6200			—8	6CM8
6CN7	DBLE DI TRIODE	HTR	6.3	0.3	9EN-MB9	5BB	1.8	1.5	0.5	DETECTOR	100 250	—1.0 —3.0		0.8 1.0		70	54000 58000	1300 1200				6CN7
6CQ6	PENTODE	HTR	6.3	.2	7DR-MB7	5AC	.01	7.0	4.5	RF AMPLIFIER	250	—.5	100	4.9	1.25			2500			—34	6CQ6
6CR6	DIODE PENTODE	HTR	6.3	0.3	7EA-MB7	5AA				DET-AMP	250	—2	100	9.5	3.0			1950			—40	6CR6
6CR8	TRIODE PENTODE	HTR	6.3	0.45	9GJ-MB9	5BB	1.6	2.0	1.4	IF AMPLIFIER	125	—2	125	12 13	3	22	0.3MEG	4000 7700			—6.5	6CR8
6CS5	BM PENT	HTR	6.3	1.2	9CK-MB9	5BC	0.5	15	9	AMPLIFIER	110	—7.5	110	50	10		13000	8000		2000		6CS5
6CS6	HEPTODE	HTR	6.3	.3	7CH-MB7	5AC	.05	5.5	7.5	CL A AMPLIFIER	100	—1.0	30	.75	1.1		1 MEG	950			—2.5	6CS6
6CS7	TWIN TRIODE	HTR	6.3	0.6	9EF-MB9	5AD	2.6	1.8	0.5	OSCILLATOR AMPLIFIER	250	—8.5 —10.5		10.5 19.0		17.0 15.5	7700 3450	2200 4500			—22	6CS7
6CS8	TRIODE PENTODE	HTR	6.3	0.45	9FZ-MB9	5BB	1.6	1.9	0.26	IF AMPLIFIER	125	—2	125	12 13	3	22	0.3MEG	4000 7700			—6.5	6CS8
6CU5	BEAM PENTODE	HTR	6.3	1.2	7CV-MB7	5AD	0.7	13.2	8.6	POWER AMPLIFIER	120	—8	110	50	8.5		10000	7500		2500		6CU5
6CX7	DOUBLE TRIODE	HTR	6.3	0.4	9FC-MB9	5BB	1.2	2.4	1.3	CASCADE AMPLIFIER	150	Rk 220		9		39		6400			—10	6CX7
6CY5	TETRODE	HTR	6.3	0.2	7EW-M7	5AA	0.03	4.5	3.0	CL A AMP	180	—1.0	180	10	1.5		0.1MEG	8000			—6	6CY5
6D6	PENTODE	HTR	6.3	.3	6F-SS6	12DB	.007*	4.7	6.5	AMP CL A	250 100	—3 —3	100 100	8.2 8.0	2.0 2.2		.8MEG .25MEG	1600 1500			—50 —50	6D6
6D7	PENTODE	HTR	6.3	.3	7H-SS7					AMP CL A	250 100	—3 —3	100 100	2.0 2.0	.5 .5		1.5MEG 1 MEG	1226 1185			—7 —7	6D7
6D8G	HEPTODE	HTR	6.3	.15	8A-OS8	12CA	.2*	8.0*	11*	OSC SECT MIXER	250S 250	.05MEG —3	100	4.3 3.5	2.6		GRID #2 .4MEG	RES. .02 MEG 550C			—35	6D8G
6DA6	PENTODE	HTR	6.3	0.2	9BA-MB9	5BB	0.002	5.5	5.1	RF AMPLIFIER	250	0	100	9		19	1MEG	3600				6DA6
6DA7	DOUBLE TRIODE	HTR	6.3	1.0	9EF-MB9	5BC	2.3 6.9	2.0 5.5	0.415 0.82	OSCILLATOR AMPLIFIER	250 150	—8 —17.5		9.0 40		20 6.3	7700 1100	2600 5700			—42	6DA7
6DB5	BM PENT	HTR	6.3	1.2	9GR-MB9	5BC	0.5	15	9	POWER AMP	110	—7.5	110	50	10		13000	8000		2000		6DB5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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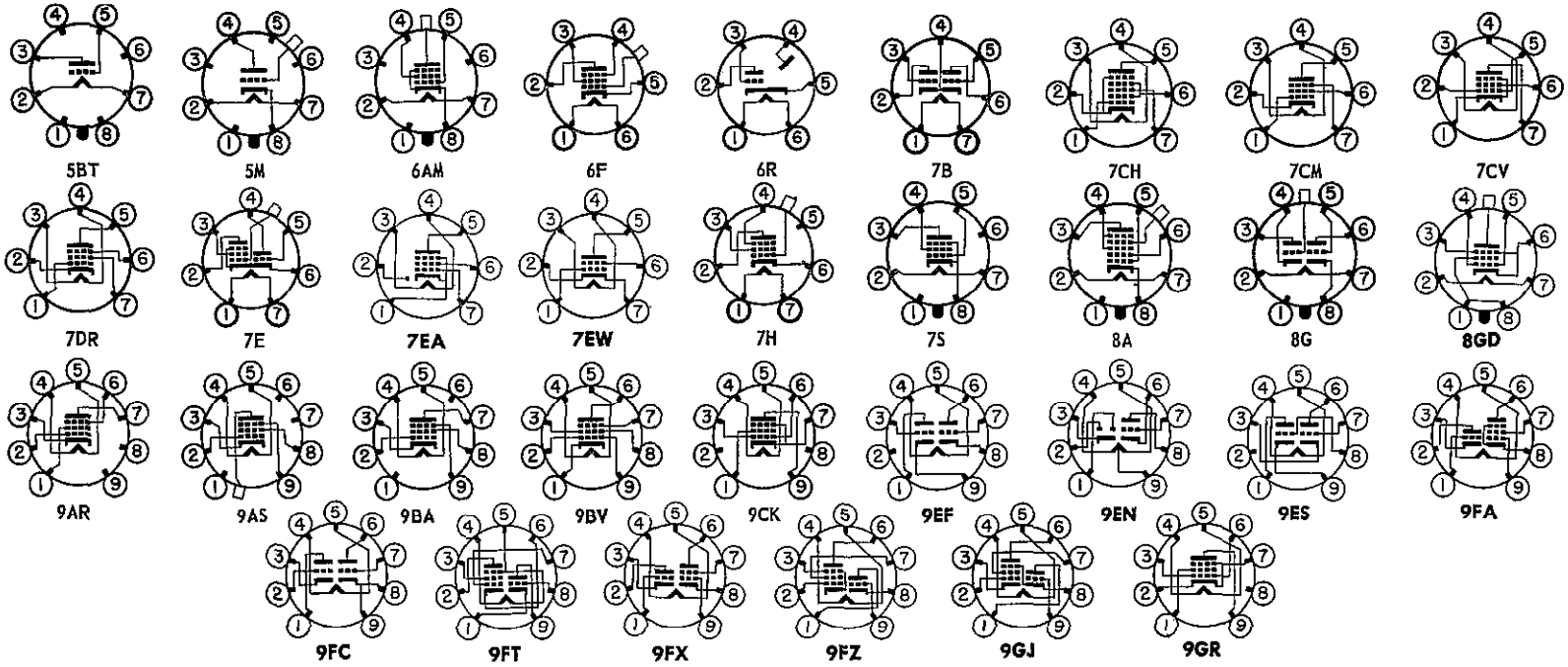
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6DB6	PENTODE	HTR	6.3	0.3	7CM-MB7	5AC	0.0035	6.0	5.0	DEMODULATOR	150	—3.0	150	5.8			50000	2050			—6.5	6DB6
6DC6	PENTODE	HTR	6.3	0.3	7CM-MB7	5AC	0.02	6.5	2	PF AMPLIFIER	200	Rk 180	150	9	3		0.5MEG	5500			—12.5	6DC6
6DE6	PENTODE	HTR	6.3	0.3	7CM-MB7	5AC	0.025	6.5	2.0	CL A AMP	125	Rk 56	125	15.5	4.2		0.25MEG	8000			—9	6DE6
6DG6GT	BM PENT	HTR	6.3	1.2	7S-OM7	9BC				POWER AMP	110	—7.5	110	50	10		13000	8000				6DG6GT
6DK6	PENTODE	HTR	6.3	0.3	7CM-M7	5AC	0.02	6.3	1.9	IF AMPLIFIER	125	Rk 56	125	12	3.8			9800			—6.5	6DK6
6DN6	PENTODE	HTR	6.3	2.5	5BT-OM8	12JE	0.8	22	11.5	POWER AMP	125	—18	125	70	6.3		4000	9000			—36	6DN6
6DQ6A	BEAM PENTODE	HTR	6.3	1.2	6AM-OM7	12JC	0.55	15	7	POWER AMP	250	—22.5	150	75	2.4		20000	6600			—46	6DQ6A
6E5	ELEC RAY	HTR	6.3	.3	6R-SS6	9FD				TUNING IND	250 THRU 1 MEG. TARGET 250v, GRID 0v FOR 90°, —8v FOR 0°											6E5
6E6	TWIN TRI	HTR	6.3	.6	7B-SM7	14BA	PUSH-PULL			CL A 1 SECT CL A 2 SECT	250 250	—27.5 —27.5		18 36		6	3500	1700	1.6	14000		6E6
6E7	PENTODE	HTR	6.3	.3	7H-SS7					AMP CL A	250 100	—3 —3	100 100	8.2 8.0	2.0 2.2		.8 MEG .25MEG	1600 1500			—50 —50	6E7
6F5 6F5GT	TRIODE	HTR	6.3	.3	5M-OW5 5M-OW5	8DA 9EA	2.0 2.0*	6.0 6.0*	12 12*	AMPLIFIER CLASS A	250 100	—2 —1		0.9 0.4		100 100	66000 85000	1500 1150				6F5 6F5GT
6F6 6F6G	PENTODE	HTR	6.3	.7	7S-OW7 7S-OM7	8FA 14BA	PENTODE CONNECTION			PR AMP CL A PUSH-PULL CL AB 2 TUBE	285 250 375 315	—20 —16.5 —26 —24	285 250 250 285	38 34 34 62	7 6.5 5 12	(SEE TYPE 2A5 ALSO)	78000 80000	2550 2500	4.8 3.2 18.5 11	7000 7000 10000 10000		6F6 6F6G
6F7 6F7S	TRIODE PENTODE	HTR	6.3	.3	7E-SS7 7E-SS7	12DA	2.0 .008*	2.5 3.2	3.0 12.5	TRI CL A PENT CL A	100 250	—3 —3	 100	3.5 6.5	 1.5	8 900	16000 .85MEG	500 1100	(SEE 6P7G ALSO)		—35	6F7 6F7S
6F8G	TWIN TR	HTR	6.3	.6	8G-OS8	12CA	4.0L 3.6R	3.2L 3.0R	3.2L 3.8R	AMP CL A ONE SECT	250 90	—8 0		9.0 10.0		20 20	7700 6700	2600 3000				6F8G

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



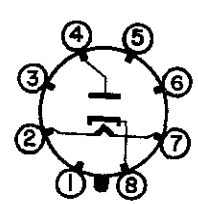
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6G5/6H5	ELEC RAY	HTR	6.3	0.3	6R-SS6	12BA				TUNING IND	250 THROUGH 1 MEG., TARGET 250 volts, GRID 0v FOR 90°, —22v FOR 0°											6G5/6H5
6G6G	PENTODE	HTR	6.3	.15	7S-OS7	12BA				POWR AMP CLASS A	180 135	—9 —6	180 135	15 11.5	2.5 2.0	400 360	.18MEG .17MEG	2300 2100	1.1 0.6	10000 12000		6G6G
6G6GT	PENTODE	HTR	6.3	.15	7S-MB9	9DB				PWR AMPLIFIER	180	—9	180	15	2.5		.175MEG	2300	1.1	10000		6G6GT
6H4GT	DIODE	HTR	6.3	.15	5AF-OGT5	9DB				DETECTOR	100	MAX		4 MAX			1000 AT .25ma					6H4GT
6H6 6H6G 6H6GT	TWIN DIODE	HTR	6.3	.3	7Q-OW7 7Q-OS7 7Q-OW7	8BA 12BA 9BC	.1PP .1PP .1PP			DETECTOR	150 MAX			8 MAX EACH DIODE								6H6 6H6G 6H6GT
6J4	TRIODE	HTR	6.3	0.4	7BQ-MB7	5AC	0.24	5.5	4	VOLTAGE AMP	150	Rk 100		15		55				12000		6J4
6J5 6J5GT	TRIODE	HTR	6.3	.3	6Q-OW6 6Q-OW6	8BB 9BC	3.4 3.8*	3.4 4.2*	3.6 5.0*	AMPLIFIER CLASS A	250 90	—8 0		9.0 10.0		20 20	7700 6700	2600 3000				6J5 6J5GT
6J6	TWIN TRIODE	HTR	6.3	0.45	7BF-MB7	5AC	1.6	2.2	0.4	OSCILLATOR	100	—1		8.5		38	6000	5300				6J6
6J6A	TWIN TRIODE	HTR	6.3	0.45	7BF-MB7	5AC	1.6	2.2	0.4	OSCILLATOR	100	—1		8.5		38	6000	5300				6J6A
6J7 6J7G 6J7GT	PENTODE	HTR	6.3	.3	7R-OW7 7R-OS7 7R-OW7	8DA 12CA 9CA	.005 .005* .005*	7 4.6* 4.6*	12 12* 12*	AMP CL A PENT CONN TRI CONN	250 100 250	—3 —3 —8	100 100	2.0 2.0 6.5	0.5 0.5	 20	1.5MEG 1.0MEG 10500	1225 1185 1900			—7 —7	6J7 6J7G 6J7GT
6J8G	TRIODE HEPTODE	HTR	6.3	.3	8H-OS8	12CA	.01*	4.6*	10.5*	OSC-TRIODE MIXER HEPT	250S 250	.05 MEG —3	100	5.0 1.2	2.9	TRIODE PLATE RESISTOR .02 MEG 4 MEG 290C					—20	6J8G
6K5G	TRIODE	HTR	6.3	.3	5U-OS7	12CA	2.0	2.4	3.6	AMP CL A	250	—3		1.1		70	50000	1400				6K5G
6K6GT	PENTODE	HTR	6.3	.4	7S-OGT7	9DB				POWER AMP CLASS A	315 250	—21 —18	250 250	25.5 32	4.0 5.5		75000 68000	2100 2300	4.5 3.4	9000 7600		6K6GT
6K7 6K7G 6K7GT	PENTODE	HTR	6.3	.3	7R-OW7 7R-OS7 7R-OW7	8DA 12CA 9CA	.005 .007* .005*	7 5* 4.6*	12 12* 12*	AMPLIFIER CLASS A	250 250 100	—3 —3 —1	125 100 100	10.5 7.0 9.5	2.6 1.7 2.7		.6 MEG .8 MEG .15MEG	1650 1450 1650			—52.5 —42.5 —38.5	6K7 6K7G 6K7GT
6K8 6K8G 6K8GT	TRIODE HEXODE	HTR	6.3	.3	8K-OW8 8K-OS8 8K-OW8	8EA 12CA 9CB	.03 .08* .08*	6.6 4.6* 4.6*	3.5 4.8* 4.8*	OSC-TRIODE MIXER HEX	100 250 100	.05MEG —3 —3	100 100	3.8 2.5 2.3	6.0 6.2		.6 MEG .4 MEG	3000 350C 325C	(TRIODE GRID 0v)			—30 —30	6K8 6K8G 6K8GT
6L5G	TRIODE	HTR	6.3	.15	6Q-OS6	12BA	2.7*	3*	5*	AMP CL A	250	—9		8		17	8900	1900			—20	6L5G
6L6 6L6G 6L6GA	BEAM PWR AMP	HTR	6.3	.9	7S-OW7 7S-OM8 7S-OM7	10AA 16AA 14BA	2 TUBES 2 TUBES 2 TUBES			POWER AMP CLASS A PP CL A PP CL AB PP CL AB 2	350 250 270 360 360	—18 —14 —17.5 —22.5 —22.5	250 250 270 270 270	54 72 134 88 88	2.5 5.0 11 5 5		33000 22500 23500	5200 6000 5700	10.8 6.5 17.5 26.5 47	4200 2500 5000 6600 3800		6L6 6L6G 6L6GA
6L6GB	BEAM PENTODE	HTR	6.3	0.9	7AC-OM7	12GD	0.9	11.5	9.5	POWER AMP	SEE 6L6GA											6L6GB
6L7 6L7G	HEPTODE	HTR	6.3	.3	7T-OW7 7T-OS7	8DA 12CA	.001 .005*	7.5 6*	11 10*	AMP CL A MIXER	250 250	—3 —6	100 150	5.3 3.3	6.5 9.2	670 670	.6 MEG 1 MEG	1100 350C	G3 AT — 3v G3 AT —15v		—15 —45	6L7 6L7G
6M3	DIODE	HTR	6.3	3.0	8GU-OGT8	12CB	17.5	3.3	19.5	DAMPER	MAX PEAK INVERSE = 6000 volts						MAX Io = 320 ma					6M3
6M5	PENTODE	HTR	6.3	.71	9N-MB9	5BD	1.0	10	6.2	PWR AMPLIFIER	250	Rk 170	250	36	5.2		.04MEG	10000	3.9	7000		6M5
6M8GT	DI-TRI PENTODE	HTR	6.3	0.6	8AU-OGT8	9EB	2.5 0.015	3.7 5.2	4.3 1.0	CL A TRIODE CL A PENTODE	100 100	—1 —3	 100	0.5 8.5	 2.7	100	91000 0.2MEG	1100 1900			 —35	6M8GT
6N4	TRIODE	HTR	6.3	0.2	7CA-MB7	5AA	2.3	3.1	0.55	VOLTAGE AMP	180	—3.5		12		32		6000				6N4
6N5	ELEC RAY	HTR	6.3	0.15	6R-SS6	12BA				TUNING IND	135 THROUGH 0.25 MEG. TARGET 135 volts, GRID 0v FOR 90°, —12v FOR 0°											6N5
6N6G	DUO TRI	HTR	6.3	.8	7AU-OM7	14BA	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP	300 300	0 +		8 45			24000	(SEE TYPE 6B5 ALSO) 2400		4	7000		6N6G

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6N7 6N7G	TWIN TRIODE	HTR	6.3	.8	8B-OW8 8B-OM8	8EA 14BA	(SEE TYPE 6A6 ALSO)			POWER AMP CL B 2 SECT	300	0		35	MAX SIG PLATE CUR —70ma 10					8000		6N7 6N7G
6N8	DI-PENT	HTR	6.3	.3	9T-MB9	5BC	.002	4.0	4.6	RF-AF AMP	250	—2	85	5	1.75		1.6MEG	2200				6N8
6P5G 6P5GT	TRIODE	HTR	6.3	.3	6Q-OS6 6Q-OGT6	12BA 9DB	2.6*	3.4*	5.5*	AMPLIFIER CLASS A	250 100	—13.5 —5		5 2.5		13.8 13.8	9500 12000	1450 1150				6P5G 6P5GT
6P7G	TRIODE PENTODE	HTR	6.3	.3	7U-OS8	12CA	2.0* .008*	3.5* 3.5*	3.0* 12*	OSC-TRIODE MIXER PENT	100 250	—3	100	2.4 2.8	0.6		(SEE TYPE 6F7 ALSO) 2 MEG 300C					6P7G
6Q5G	GAS TETRODE	HTR	6.3	0.6	6Q-OS8	12BA	2.8	1.7	2.0	THYRATRON	MAX PEAK FORWARD = 650 volts				MAX PEAK ANODE CURRENT = 300 ma							6Q5G
6Q7 6Q7G 6Q7GT	DUO-DIODE TRIODE	HTR	6.3	.3	7V-OW7 7V-OS7 7V-OW7	8DA 12CA 9CA	1.5 1.3 1.6*	5.5 2.7 2.2*	5.0 4.5 5.0*	AMPLIFIER CLASS A	250 100	—3 —1.0		1.0 0.8		70 70	58000 58000	1200 1200				6Q7 6Q7G 6Q7GT
6R6G	PENTODE	HTR	6.3	0.3	6AW-OS6	12CA	0.007	4.5	11	AMPLIFIER TELEVISION CIRCUITS	250	—3	100	7.0	1.7	1160	0.8MEG	1450			—42.5	6R6G
6R7 6R7GT	DUO DI TRIODE	HTR	6.3	.3	7V-OW7 7V-OGT7	8DA 9EA	2.5	5.5	4.0	AMPLIFIER CLASS A	250	—9		9.5		16	8500	1900	.28	10000		6R7 6R7GT
6R8	TRIPLE DI TRIODE	HTR	6.3	.45	9E-MB9	5BB	2.4	1.5	1.1	DET-AMPLIFIER	250	—9		9.5		16	8500	1900	.300	10000		6R8
6S4 6S4A	TRIODE	HTR	6.3	.6	9AC-MB9	5BC 5BC				VERT AMP	250	—8		26		16	3600	4500				6S4 6S4A
6S6GT	PENTODE	HTR	6.3	0.45	5AK-OGT5	9EC	0.01	7.0	4.6	VOLTAGE AMP	250	—2.0	100	13	3		0.35MEG	4000			—30	6S6GT
6S7 6S7G	PENTODE	HTR	6.3	.15	7R-OW7 7R-OS7	8EA 12CA	.005 .008*	6.5 4.4*	10.5 8.0*	AMPLIFIER CLASS A	250 135	—3 —3	100 67.5	8.5 3.7	2.0 0.9		1 MEG 1 MEG	1750 1250			—38.5 —25	6S7 6S7G

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES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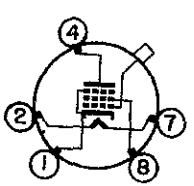
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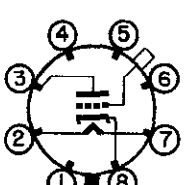
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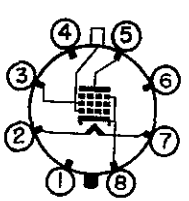
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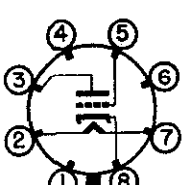
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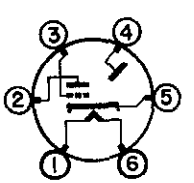
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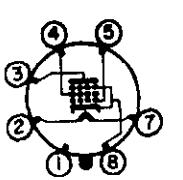
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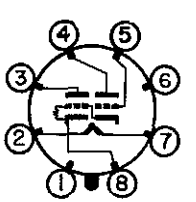
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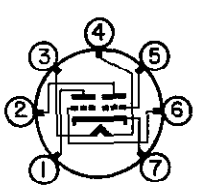
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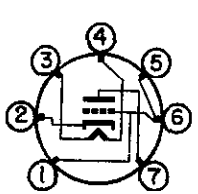
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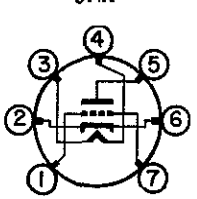
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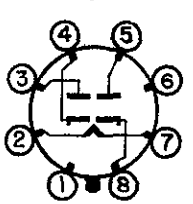
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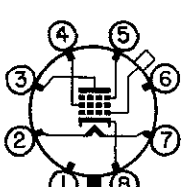
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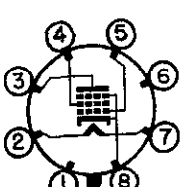
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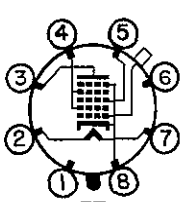
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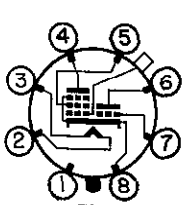
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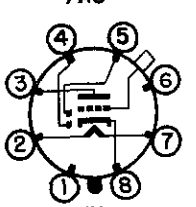
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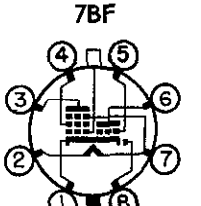
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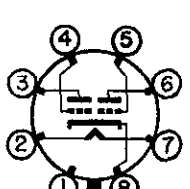
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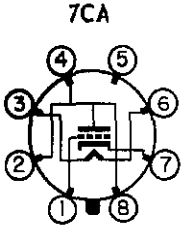
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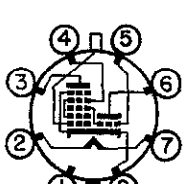
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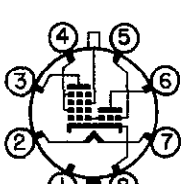
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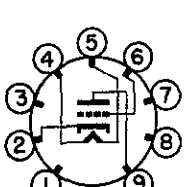
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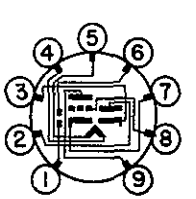
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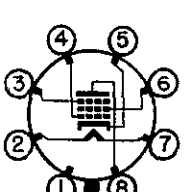
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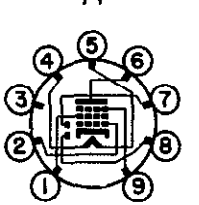
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TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6S8GT	TRIP-DI-TRI	HTR	6.3	0.3	8CB-OGT8	9EC				DET-AMP	250	—2.0		0.9		100		1100				6S8GT
6SA7 6SA7GT	HEPTODE	HTR	6.3	.3	8R-OW8 8AD-OW8	8BB 9BC	.13 .20	9.5 11.0	12 12	OSC SECT MIXER	OSC GRID RES —.02 MEG 250	—2	100	3.5	OCS GRID CUR —.5ma 8.5		1.0 MEG 450C				—35	6SA7 6SA7GT
6SB7Y 6SB7GTY	PENTA-GRID	HTR	6.3	0.3	8R-OW8 8R-OGT8	8BB 9BC	0.13	9.6	9.2	CONVERTER	OSC GRID RES = 20000 OHMS 250	—1.0	100	3.8	10	OSC GRID CURR = 0.35 ma 1 MEG 950C					—20	6SB7Y 6SB7GTY
6SC7 6SC7GT	TWIN TRI	HTR	6.3	.3	8S-OW8 8S-OW8	8BB 9DB				Cl A 1 SECT	250	—2		2		70	53000	1325				6SC7 6SC7GT
6SD7GT	PENTODE	HTR	6.3	.3	8N-OW8	9BC	.0035	9.0	7.5	AMP CL A	250 100	—2 —2	100 100	6.0 5.7	1.9 2.0		1.0MEG .25MEG	3600 3350			—11 —11	6SD7GT
6SE7GT	PENTODE	HTR	6.3	0.3	8N-OW8	9BC	0.005	8.0	7.5	AMP CL A	250	—1.5	100	4.5	1.5		1.0MEG	3100			—5	6SE7GT
6SF5 6SF5GT	TRIODE	HTR	6.3	.3	6AB-OW6 6AB-OGT6	8BB 9DB	2.6 2.6*	4.2 4.2*	3.8 3.8*	AMPLIFIER CLASS A	250 100	—2 —1		0.9 0.4		100 100	66000 85000	1500 1150				6SF5 6SF5GT
6SF7	DIODE PENTODE	HTR	6.3	.3	7AZ-OW8	8BB				AMP CL A	250 100	—1 —1	100 100	12.4 12.0	3.3 3.4		.7 MEG .2 MEG	2050 1975			—35 —35	6SF7
6SG7	PENTODE	HTR	6.3	.3	8BK-OW8	8BB				AMP CL A	250 100	—1 —1	125 100	11.8 8.2	4.4 3.2		.9 MEG .25MEG	4700 4100			—14 —11.5	6SG7
6SH7GT	PENTODE	HTR	6.3	0.3	8BK-OW8	9BC	0.003	8.5	7.0	AMPLIFIER CLASS A	250 100	—1 —1	150 100	10.8 5.3	4.1 2.1		0.9MEG 0.35MEG	4900 4000			—5.5 —4	6SH7GT
6SJ7 6SJ7GT	PENTODE	HTR	6.3	.3	8N-OW8 8N-OW8	8BB 9BC	.005	6.0	7.0	AMPLIFIER CLASS A	250 100	—3 —3	100 100	3.0 2.9	0.8 0.9		1.5MEG 0.7MEG	1650 1575			—9 —9	6SJ7 6SJ7GT
6SK7 6SK7GT	PENTODE	HTR	6.3	.3	8N-OW8 8N-OW8	8EA 9BC	.003 .005*	6.0 6.5*	7.0 7.5*	AMPLIFIER CLASS A	250 100	—3 —1	100 100	9.2 13.0	2.6 4.0		0.8MEG .12MEG	2000 2350			—35 —35	6SK7 6SK7GT
6SL7GT	TWIN TR	HTR	6.3	0.3	8BD-OGT8	9DB				CL A 1 SECT	250	—2		2.3		70	44000	1600				6SL7GT
6SN7GT	TWIN TR	HTR	6.3	.60	8BD-OGT8	9DB	4L 4R	3.2L 3.8R	3.4L 3.6R	CL A 1 SECT	250 90	—8 0		9 10		20 20	7700 6700	2600 3000				6SN7GT
6SN7GTA 6SN7GTB	DOUBLE TRIODE	HTR	6.3	.6	8BD-OS8	9DB 9DB	4.0	3.0	1.2	VERT. OSC-AMP	90 250	0 —8		10 9		20 20	6700 7700	3000 2600			—18	6SN7GTA 6SN7GTB
6SQ7 6SQ7GT	DUO-DI TRIODE	HTR	6.3	.3	8Q-OW8 8Q-OW8	8BB 9BC	1.8	4.2	3.4	AMPLIFIER CLASS A	250 100	—2 —1		0.9 0.4		100 100	91000 110000	1100 900				6SQ7 6SQ7GT
6SR7 6SR7GT	DUO-DI TRIODE	HTR	6.3	.3	8Q-OW8 8Q-OGT8	8BB 9DB	2.0 2.3*	3.4 3.5*	2.8 3.8*	AMP CL A	250	—9		9.5		16	8500	1900				6SR7 6SR7GT
6SS7 6SS7GT	PENTODE	HTR	6.3	0.15	8N-OW8 8N-OGT8	8BB 9BB	0.004	5.5	7.0	AMPLIFIER CLASS A	250 100	—3 —1	100 100	9.0 12.2	2.0 3.1		1.0MEG 0.12MEG	1850 1930			—35 —35	6SS7 6SS7GT
6ST7	DUO-DI TRIODE	HTR	6.3	0.15	8Q-OW8	8BB	1.5	2.8	3.0	AMP CL A	250	—9		9.5		16	8500	1900				6ST7
6SU7GTY	DOUBLE TRIODE	HTR	6.3	0.3	8BD-OGT8	9BC				VOLTAGE AMP	250	—2		2.3		70		1600				6SU7GTY
6SV7	DIODE-PENTODE	HTR	6.3	0.3	7AZ-OW8	8BB	.004	6.5	6.0	DET-AMP	250	—1	150	7.5	2.8		1.5MEG	3600			—7.0	6SV7
6SZ7	DOUBLE DI-TRI	HTR	6.3	0.15	8Q-OW8	8BB	1.1	2.6	2.8	DET-AMP	250	—3		1.0		70		1200				6SZ7
6T4	TRIODE	HTR	6.3	.225	7DK-MB7	5AA	1.8	2.4	.45	UHF OSC	80	Rk 150		18		13		7000			—15	6T4
6T5	ELEC RAY	HTR	6.3	0.3	6R-SS6	9FD				TUNING IND	250 THRU 1 MEG, TARGET 250v, GRID 0v FOR MIN, —22v FOR MAX											6T5

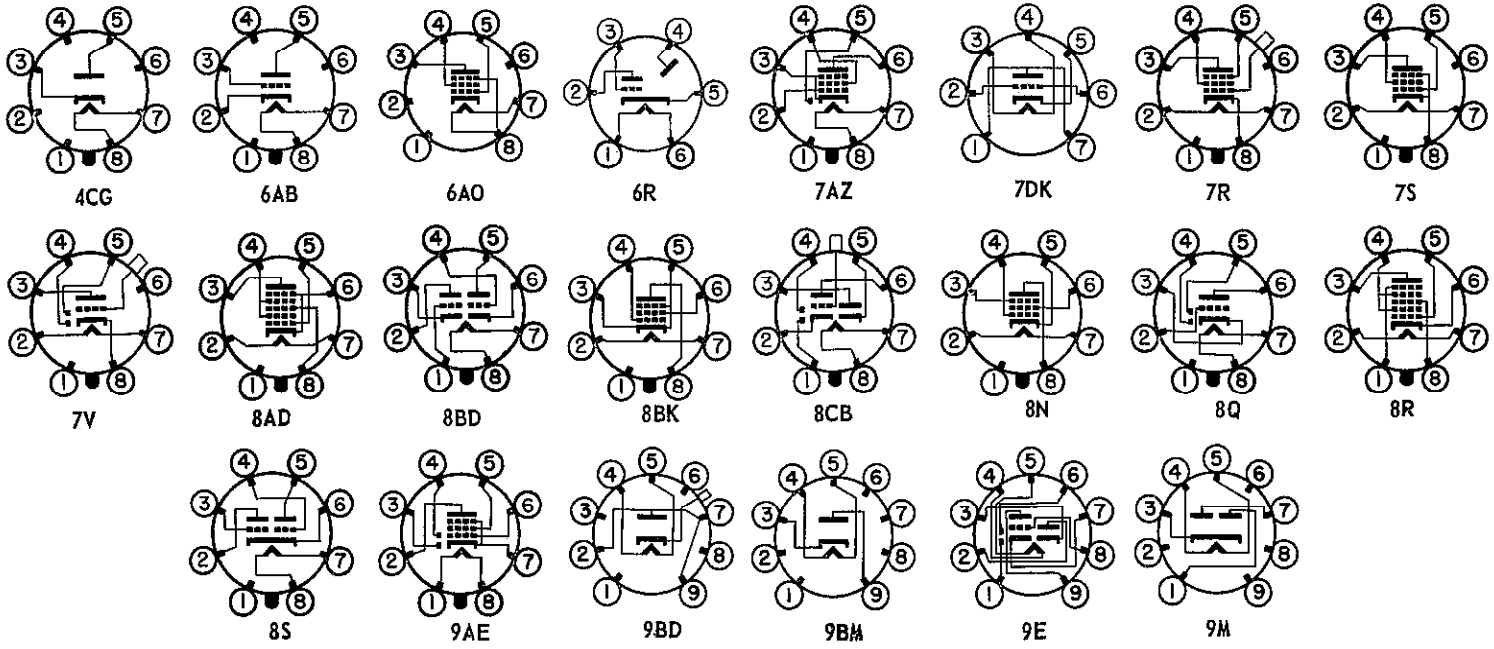
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6T7G- 6Q6G	DUO-DI TRIODE	HTR	6.3	.15	7V-OS7	12CA	1.3	2.7	4.5	AMPLIFIER CLASS A	240 135	—3 —1.5		1.2 0.9		65 65	62000 65000	1050 1000				6T7G- 6Q6G
6T8 6T8A	TRIP-DI-TRI	HTR	6.3	0.45	9E-MB9	5BB 5BB	2.4	1.5	1.1	DET-AMP	250	—3		1.0		70		1200				6T8 6T8A
6U3	DIODE	HTR	6.3	.9	9BM-MB9	5BD				DAMPER	MAX PEAK INVERSE = 4000 V; MAX Io = 180ma											6U3
6U4GT	DIODE	HTR	6.3	1.2	4CG-OGT5	9DB				DAMPER	MAX PEAK INVERSE = 3850 V; MAX Io = 138ma DC											6U4GT
6U5/6G5	ELEC RAY	HTR	6.3	.3	6R-SS6	9FD				TUNING IND	250 THRU 1 MEG TARGET 250v, GRID 0v FOR 90°, —22v FOR 0° 100 THRU .5 MEG TARGET 100v, GRID 0v FOR 90°, — 8v FOR 0°											6U5/6G5
6U6GT	BEAM PWR AMP	HTR	6.3	.75	7S-OGT7	9DB				POWER AMP CLASS A	200 110	—14 —10.5	135 110	55 44	3 4		20000 10000	6200 5600	5.5 2.0	3000 2000		6U6GT
6U7G	PENTODE	HTR	6.3	.3	7R-OS7	12CB	.007*	5*	9*	AMP CL A	250 100	—3 —3	100 100	8.2 8.0	2.0 2.2		.8 MEG .25MEG	1600 1500			—50 —50	6U7G
6U8 6U8A	TRIODE PENTODE	HTR	6.3	.45	9AE-MB9	5BB 5BB	1.8* .01*	2.5* 5.0*	1.0* 2.6*	TRIODE SECT PENT SECT	150 250	Rk 56 Rk 68		18 10	 3.5	40	 .4 MEG	8500 5200			—12 —10	6U8 6U8A
6V3	DIODE	HTR	6.3	1.75	9BD-MB9	5CC				DAMPER	MAX PEAK INVERSE = 6000 V; MAX Io = 135ma DC											6V3
6V4	DBLE DI	HTR	6.3	.6	9M-MB9	5BD				FW RECTIFIER	MAX PEAK INVERSE = 980 V; MAX Io = 90ma											6V4
6V5GT	BEAM PENTODE	HTR	6.3	0.45	6AO-OGT8	9DB	0.6	9.0	10.0	POWER AMP	315	—13	225	35	6.0		77000	3750	5.5	8500		6V5GT
6V6 6V6GT 6V6GTA	BEAM POWER AMP	HTR	6.3	.45	7S-OW7 7S-OW7	8FA 9DB 9DB		2 TUBES		AMPLIFIER CLASS A PP CL AB	315 250 250 285	—13 —12.5 —15 —19	225 250 250 285	34 45 70 70	2.2 4.5 5.0 4.0		77000 52000 60000 65000	3750 4100 3750 3600	5.5 4.5 10 14	8500 5000 10000 8000		6V6 6V6GT 6V6GTA

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
6V7G	DUO-DI TRIODE	HTR	6.3	.3	7V-OS7	12CA	1.7	2.0	3.5	AMPLIFIER CLASS A	250 180	—20 —13.5		8 6		8.3 8.3	7500 8500	1100 975	.35 .16	20000 20000		6V7G
6V8	TRIPLE DI TRIODE	HTR	6.3	.45	9AH-MB9	5BB				DET-AMPLIFIER	100 250	—1 —3		.8 1.0		70 70	54000 58000	1300 1200				6V8
6W4GT	DIODE	HTR	6.3	1.2	4CG-OGT6	9DB				HW RECTIFIER	MAX PEAK INVERSE = 1250 volts, MAX Io = 125 ma											6W4GT
6W5G	TWIN DI	HTR	6.3	.9	6S-OS6	12BA				FULL WAVE RECTIFIER	325 450	RMS MAX COND IN 90 DC MAX RMS MAX CHOKE IN 90 DC MAX					TUBE DROP 24v AT 90ma DC					6W5G
6W6GT	TETRODE PWR AMP	HTR	6.3	1.25	7S-OGT7	9DB				AMPLIFIER CLASS A	135	—9.5	135	58	2.8	215	24000	9000	3.3	2000		6W6GT
6W7G	PENTODE	HTR	6.3	.15	7R-OS7	12CA	.007*	5.0*	8.5*	AMP CL A	250	—3	100	2.0	0.5		1.5MEG	1225			—7	6W7G
6X4	DOUBLE DIODE	HTR	6.3	0.6	5BS-MB7	5AD				FW RECTIFIER	MAX PEAK INVERSE = 1250 volts, MAX Io = 70 ma											6X4
6X5 6X5GT	TWIN DIODE	HTR	6.3	.6	6S-OW6 6S-OGT6	8FA 9DB				FULL WAVE RECTIFIER	325 450	RMS MAX COND IN 70 DC MAX RMS MAX CHOKE IN 70 DC MAX					TUBE DROP 22v AT 70ma DC					6X5 6X5GT
6X8 6X8A	TRIODE PENTODE	HTR	6.3	.45	9AK-MB9	5BB 5BB	1.4 0.6	2.6 4.5	1.0 1.2	TRIODE SECT PENTODE SECT	100 250	Rk 100 Rk 200	 150	8.5 7.7	 1.6	 40	 .65MEG	5800 4600			—10 —8	6X8 6X8A
6Y3G	DIODE	HTR	6.3	0.7	4AC-OS6	12CA				HW RECTIFIER MAX PEAK INVERSE = 14000 volts, MAX Io — 7.5 ma												6Y3G
6Y5	TWIN DIODE	HTR	6.3	.8	6J-SS6	12BA	(MERCURY VAPOR)			FULL WAVE RECTIFIER	325 450	RMS MAX COND IN 60 DC MAX RMS MAX CHOKE IN 60 DC MAX					TUBE DROP 20v AT 60ma DC					6Y5
6Y6G 6Y6GA	BEAM PWR AMP	HTR	6.3	1.25	7S-OM7	14BA 12GD				POWER AMP CLASS A	200 135	—14 —13.5	135 135	61 58	2.2 3.5		18300 9300	7100 7000	6.0 3.6	2600 2000		6Y6G 6Y6GA
6Y7G	TWIN TRIODE	HTR	6.3	.6	8B-OS8	12BA				CL B AMP 2 SECTIONS	250 180	0 0		10.6 NO SIG 7.6 NO SIG					8 5.5	14000 7000		6Y7G
6Z5	TWIN DIODE	HTR	12.6 or 6.3	.4 .8	6K-SS6	12BA				FULL WAVE RECTIFIER	325 450	RMS MAX COND IN 60 DC MAX RMS MAX CHOKE IN 60 DC MAX					TUBE DROP 20v AT 60ma DC					6Z5
6Z7G	TWIN TRIODE	HTR	6.3	.3	8B-OS8	12BA				CL B AMP 2 SECTIONS	180 135	0 0		8.4 NO SIG 6.0 NO SIG					4.2 2.5	12000 9000		6Z7G
6ZY5G	TWIN DI	HTR	6.3	.3	6S-OS6	12BA				FULL WAVE RECTIFIER	325 450	RMS MAX COND IN 40 DC MAX RMS MAX CHOKE IN 40 DC MAX					TUBE DROP 18v AT 40ma DC					6ZY5G
7A4	TRIODE	HTR	6.3	.3	5AC-L8	9AC	4	3.4	3.0	AMPLIFIER CLASS A	250 90	—8 0		9 10		20 20	7700 6700	2600 3000				7A4
7A5	PENTODE	HTR	6.3	.75	6AA-L8	9AD				POWER AMP CLASS A	125 110	—9 —7.5	125 110	44.0 40.0	3.3 3.0		17000 14000	6000 5800	2.2 1.5	2700 2500		7A5
7A6	DUO-DI	HTR	6.3	.15	7AJ-L8	9AC	.05PP			DETECTOR	150	RMS MAX		8 DC MAX			TUBE DROP 11v AT 16ma DC					7A6
7A7	PENTODE	HTR	6.3	.3	8V-L8	9AC	.005	6.0	7.0	AMP CL A	250 100	—3 —1	100 100	9.2 13.0	2.6 4.0	1600 1600	.8 MEG .12MEG	2000 2350			—35 —35	7A7
7A8	OCTODE	HTR	6.3	.15	8U-L8	9AC	.15	7.5	9.0	OSC SECT MIXER	250S 250	.05MEG —3	100	4.2 3.0	3.2		GRID #2 RES .7 MEG	550C	.02 MEG		—30	7A8
7AB7	PENTODE	HTR	6.3	0.15	8BO-L8	9AB	.06	3.5	4.0	VOLTAGE AMP	250	—2	100	4.0	1.3		.05MEG	1800			—9	7AB7
7AD7	PENTODE	HTR	6.3	0.6	8V-L8	9AD	.03	11.5	7.5	VOLTAGE AMP	300	Rk 68	150	28	7.0		0.3MEG	9500				7AD7
7AF7	DOUBLE TRIODE	HTR	6.3	0.3	8AC-L8	9AC	2.3	2.2	1.6	VOLTAGE AMP	100	0		10.8		17		2600				7AF7
7AG7	PENTODE	HTR	6.3	0.15	8V-L8	9AC	0.005	7.0	6.0	VOLTAGE AMP	250	Rk 250	250	6.0	2.0		>1MEG	4200			—10	7AG7

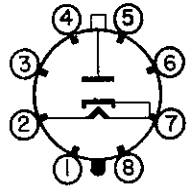
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

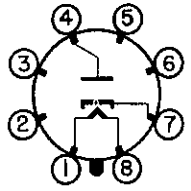
RAYTHEON

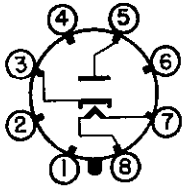
RAYTHEON

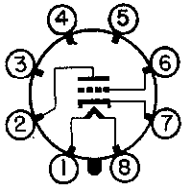
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
7AH7	PENTODE	HTR	6.3	0.15	8V-L8	9AC	0.005	7.0	6.5	VOLTAGE AMP	250	Rk 250	250	6.8	1.9		1MEG	3300			—20	7AH7
7AJ7	PENTODE	HTR	6.3	0.3	8V-L8	9AC	0.007	6.0	6.5	VOLTAGE AMP	250	—3.0	100	2.2	0.7		> 1MEG	1575			—8.5	7AJ7
7AK7	PENTODE	HTR	6.3	0.8	8V-L8	9AD	0.7	12	9.5	GATING TUBE	150	0	90	40	21		11500	6500				7AK7
7AU7	TWIN TRIODE	HTR	7.0	0.3	9A-MB9	5BB	1.5	1.6	0.4	AMPLIFIER	250	—8.5		10.5		17	7700	2200			—24	7AU7
7B4	TRIODE	HTR	6.3	.3	5AC-L8	9AC	1.6*	3.6*	3.4*	AMP CL A	100	—1		0.5		100	85000	1175				7B4
											250	—2		0.9		100	66000	1500				
7B5	PENTODE	HTR	6.3	.4	6AA-L8	9AD				POWER AMP	315	—24	250	25.5	4.0		75000	2100	4.5	9000		7B5
										CLASS A	100	—7	100	9.0	1.6		.1 MEG	1500	.35	12000		
7B6	DUO-DI TRIODE	HTR	6.3	.3	8W-L8	9AC	1.5	3.0	3.0	AMPLIFIER	250	—2		0.9		100	91000	1100				7B6
										CLASS A	100	—1		0.4		100	110000	900				
7B7	PENTODE	HTR	6.3	.15	8V-L8	9AC	.007	5.0	6.0	AMP CL A	250	—3	100	8.5	1.7		.7 MEG	1700			—40	7B7
											100	—3	100	8.2	1.8		.3 MEG	1675			—40	
7B8	HEPTODE	HTR	6.3	.3	8X-L8	9AC				OSC SECT	250S	.05MEG		4.0			GRID #2 RES .02 MEG					7B8
											100	.05MEG		2.0								
							.2	10.0	9.0	MIXER	250	—3	100	3.5	2.7		.36MEG	550C			—35	
											100	—1.5	50	1.1	1.3		.6 MEG	360C			—20	
7C4/1203A	DIODE	HTR	6.3	0.150	4AH-L8	9AC	0.8	2.2	3.0	DETECTOR	117 MAX			5 MAX								7C4/1203A
7C5	BEAM PWR AMP	HTR	6.3	.45	6AA-L8	9AD				AMPLIFIER	315	—13	225	34	2.2		77000	3750	5.5	8500		7C5
								PUSH-PULL		CLASS A	250	—12.5	250	45	4.5		52000	4100	4.5	5000		
										PP CL AB	250	—15	250	70	5.0		60000	3750	10	10000		
											285	—19	285	70	4.0		65000	3600	14	8000		
7C6	DUO-DI TRIODE	HTR	6.3	.15	8W-L8	9AC	1.4	2.4	3.0	AMPLIFIER	250	—1		1.3		100	.1 MEG	1000				7C6
										CLASS A	100	0		1.0		85	.1 MEG	850				

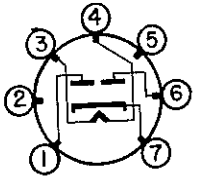
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

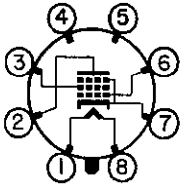


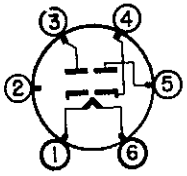


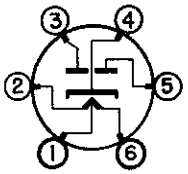


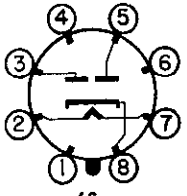


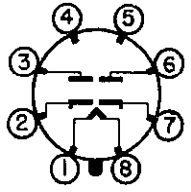


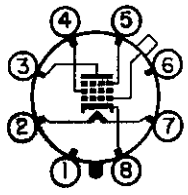


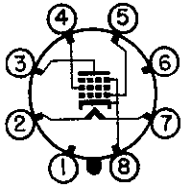


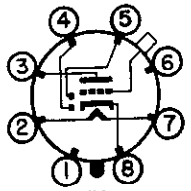


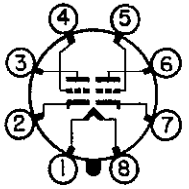


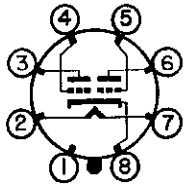


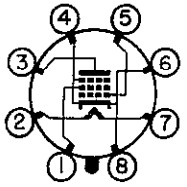


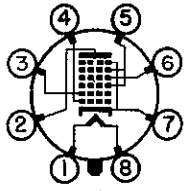


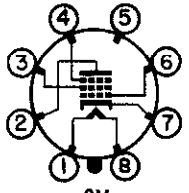


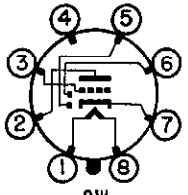


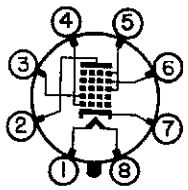


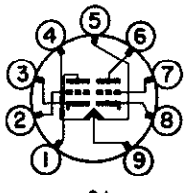


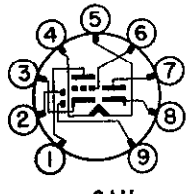


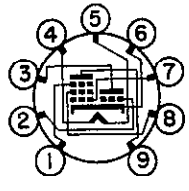












TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
7C7	PENTODE	HTR	6.3	.15	8V-L8	9AC	.007*	5.5*	6.5*	AMPLIFIER CLASS A	250	—3	100	2.0	0.5		2 MEG	1300			—7	7C7
7E5/1201	TRIODE	HTR	6.3	.150	8BN-L8	9AC	1.5	3.6	2.8	AMPLIFIER	180	—3.0		5.5		36	12000	3000				7E5/1201
7E6	DUO-DI TRIODE	HTR	6.3	.3	8W-L8	9AC	1.5	3.0	3.4	AMP CL A	250	—9		9.5		16	8500	1900				7E6
7E7	DUO-DI PENTODE	HTR	6.3	.3	8AE-L8	9AC	.005*	4.6*	4.6*	AMPLIFIER CLASS A	250 100	—3 —1	100 100	7.5 10.0	1.6 2.7		.7 MEG .15MEG	1300 1600			—42.5 —36.0	7E7
7F7	TWIN TR	HTR	6.3	.3	8AC-L8	9AC				CL A 1 SECT	250	—2		2.3		70	44000	1600				7F7
7F8	DOUBLE TRIODE	HTR	6.3	0.3	8BW-L8	9AB	1.2	2.8	1.4	VOLTAGE AMP	250	Rk 500		6.0		48		3300			Each Unit	7F8
7G7/1232	PENTODE	HTR	6.3	.45	8V-L8	9AC	.007*	9.0*	7.0*	AMP CL A	250	—2	100	6.0	2.0		.8 MEG	4500			—6	7G7/1232
7G8	DOUBLE TETRODE	HTR	6.3	0.3	8BV-L8	9AB	0.15	3.4	2.6	VOLTAGE AMP	250	—2.5	100	4.5	0.8		.225MEG	2100			Each Unit	7G8
7H7	PENTODE	HTR	6.3	.3	8V-L8	9AC	.007*	8.0*	7.0*	AMP CL A	250 100	—2.5 —1	150 100	9.5 8.2	3.5 3.3		.8 MEG .25MEG	3800 3800			—19 —12	7H7
7J7	TRI HEX	HTR	6.3	.3	8BL-L8	9AC	.01*	5.5*	7.5*	OSC-TRIODE MIXER HEX	250S 250	.05MEG —3	100	5.4 1.3	2.9	TRIODE PLATE RESISTOR .02 MEG	1.5MEG	300C			—20	7J7
7K7	DUO-DIODE	HTR	6.3	.3	8BF-L8	9AC				AMPLIFIER CLASS A	250	—2		2.3		70	44000	1600				7K7
7L7	PENTODE	HTR	6.3	.3	8V-L8	9AC	.01*	8.0*	6.5*	AMP CL A	250 100	—1.5 —1	100 100	4.5 5.5	1.5 2.4		1MEG .1MEG	3100 3000			—5 —5	7L7
7N7	TWIN TRIODE	HTR	6.3	.6	8AC-L8	9AD	3.0L* 3.0R*	3.4L* 2.9R*	2.0L* 2.4R*	CL A 1 SECT	250 90	—8 0		9 10		20 20	7700 6700	2600 3000				7N7
7Q7	HEPTODE	HTR	6.3	.3	8AL-L8	9AC	.2*	9.0*	9.0*	OSC SECT MIXER	OSC 250	GRID RES —.02 MEG —2	100	3.5	OSC GRID CUR —.5ma 8.5		1.0MEG	550C			—35	7Q7
7R7	DUO-DI PENTODE	HTR	6.3	.3	8AE-L8	9AC	.004	5.6	5.3	AMP CL A	250 100	—1 —1	100 100	5.7 5.5	1.7 2.0		1.0MEG .35MEG	3200 3000			—20 —16	7R7
7S7	TRI HEX	HTR	6.3	0.30	8BL-L8	9AC	0.04	5.5	9.0	OSC-TRIODE MIXER HEX	250S 250	.05MEG —2	100	5.0 1.7	2.2		TRIODE 2 MEG	PLATE RESISTOR .02 MEG 600C			—21	7S7
7T7	PENTODE	HTR	6.3	0.3	8V-L8	9AC	0.005	7.5	5.5	AMP CL A	250 100	—1 —1	150 100	10.8 5.3	4.1 2.1		0.9MEG 0.3MEG	4900 4000			—5.5 —4.0	7T7
7V7	PENTODE	HTR	6.3	0.45	8V-L8	9AC	0.004	9.5	6.5	HIGH FREQ AMPLIFIER	300	—2	150	9.6	3.9		.3MEG	5800			—6	7V7
7W7	PENTODE	HTR	6.3	0.45	8BJ-L8	9AC	0.0025	9.5	7.0	HIGH FREQ AMPLIFIER	300 300	—2 —2	150 300 THRU .04 MEG (OTHER VALUES SAME AS ABOVE)	10.0	3.9		.3MEG	5800			—6 —14	7W7
7X7	DOUBLE DI-TRI	HTR	6.3	0.3	8BZ-L8	9AD				DET-AMP	250	—1		1.9		100		1500				7X7
7X6	DBLE-DI	HTR	6.3	1.2	7AJ-L8	9AD				FW RECTIFIER	MAX PEAK INVERSE = 700 V; MAX Io = 150ma											7X6
7Y4	TWIN DI	HTR	6.3	.5	5AB-L8	9AC				FW RECTIFIER	325 RMS MAX COND IN 60 DC MAX TUBE DROP 20v AT 60ma DC 450 RMS MAX CHOKE IN 60 DC MAX											7Y4
7Z4	TWIN DI	HTR	6.3	0.90	5AB-L8	9AD				FW RECTIFIER	325 RMS MAX COND IN 100 DC MAX TUBE DROP 40v AT 60ma DC 450 RMS MAX CHOKE IN 100 DC MAX											7Z4
8AU8	TRIODE PENTODE	HTR	8.4	0.45	9DX-MB9	5BC	2.2 0.046	2.8 7.0	0.32 2.6	AMPLIFIER	150 200	Rk 150 Rk 82	125	8.5 15	3.4		8200 150000				—6.5 —8	8AU8
8AW8A	TRIODE PENTODE	HTR	8.4	0.45	9DX-MB9	5AD	2.2 0.04	3.2 10.0	0.32 3.6	SYNCH SEP AMPLIFIER	200	—2	150	4.0 13.0	3.5	70	0.4MEG	4000 9000			—5 —10	8AW8A

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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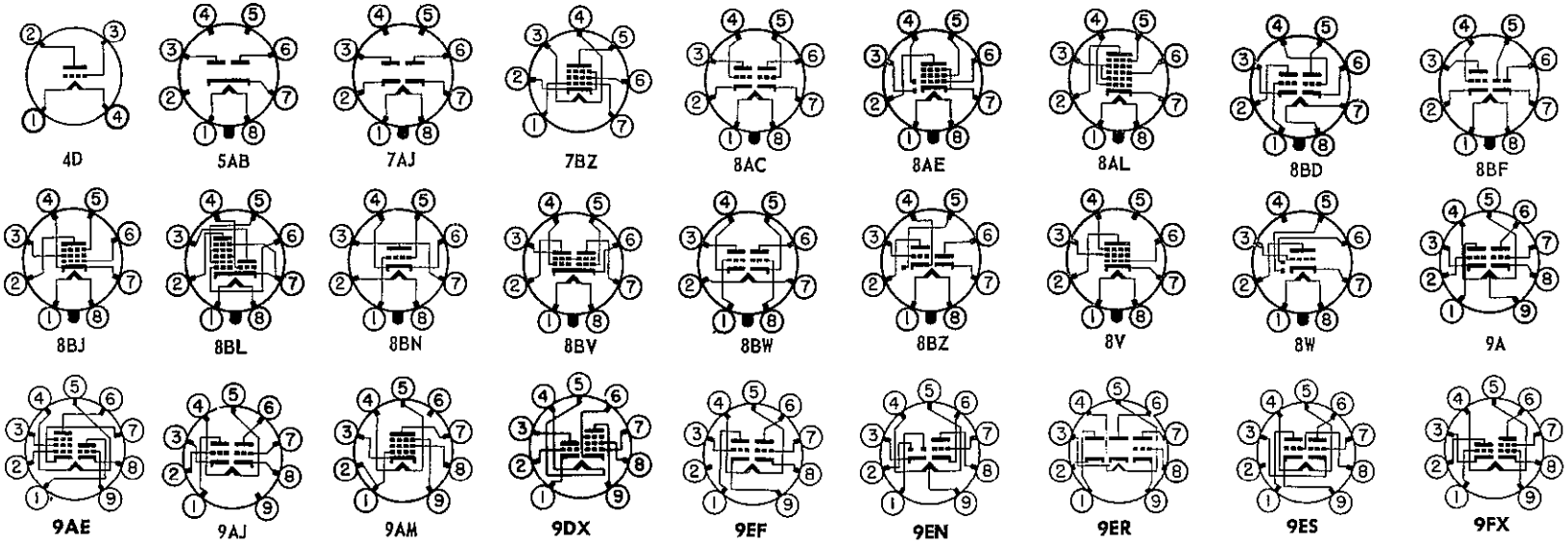
RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
8BA8 8BA8A	TRIODE PENTODE	HTR	8.4	0.45	9DX-MB9	5BC 5BC	2.2 0.04	2.5 10.0	0.4 3.6	AMP CL A	200 200	—8	150	8.0 13.0	3.5	18	0.4MEG	2700 9000			—16 —10	8BA8 8BA8A
8BN8	DBLE DI TRIODE	HTR	8.4	0.45	9ER-MB9	5AD	2.5	3.6	0.32	AMPLIFIER	250	—3		1.6		70	28000	2500			—5.5	8BN8
8CG7	TWIN TRIODE	HTR	8.4	0.45	9AJ-MB9	5AD	4.0	2.3	2.2	OSCILLATOR	250	—8		9		20	7700	2600			—18	8CG7
8CM7	DOUBLE TRIODE	HTR	8.4	0.45	9ES-MB9	5AD	3	3.5	0.4	OSCILLATOR AMPLIFIER	200 250	—7 —8				21	10500	2000 4400				8CM7
8CN7	DBLE DI TRIODE	HTR	8.4	0.225	9EN-MB9	5BB	1.8	1.5	0.5	DETECTOR	100 250	—1.0 —3.0		0.8 1.0		70	54000 58000	1300 1200				8CN7
8CS7	TWIN TRIODE	HTR	8.4	0.45	9EF-MB9	5AD	2.6	1.8	0.5	OSCILLATOR AMPLIFIER	250	—8.5 —10.5		10.5 19.0		17.0 15.5	7700 3450	2200 4500			—22	8CS7
8SN7GTB	DOUBLE TRIODE	HTR	8.4	0.45	8BD-0S8	9DB	4.0	3.0	1.2	VERTICAL OSC-AMP	90 250	0 —8		10 9		20 20	6700 7700	3000 2600			—18	8SN7GTB
9AU7	TWIN TRIODE	HTR	9.4	0.225	9A-MB9	5BB	1.5	1.6	0.4	AMPLIFIER	250	—8.5		10.5		17	7700	2200			—24	9AU7
9BM5	BM PENT	HTR	9.5	.3	7BZ-MB7	5AD	.5	8.0	5.5	POWER AMP	250	—6	250	30	3		60000	7000	3.5	7000		9BM5
9BW6	BM PENT	HTR	9.45	.3	9AM-MB9	5BC				POWER AMP	250	—13	250	34	2.2		77000	3750	5.5	8500		9BW6
9CL8	TRIODE TETRODE	HTR	9.5	0.3	9FX-MB9	5BB	1.8 0.028	2.7 5.0	0.4 2.0	OSCILLATOR MIXER	125	—1.0	125	15 12	4.0	40	0.1MEG	8000 5800			—9 —10	9CL8
9U8A	TRIODE PENTODE	HTR	9.45	0.3	9AE-MB9	5BB	1.8 0.01	2.5 5.0	1.0 2.6	TRIODE SECT PENTODE SECT	150 250	Rk 56 Rk 68		18 10	3.5	40	0.4MEG	8500 5200			—12 —10	9U8A
10	TRIODE	FIL	7.5	1.25	4D-SM4	16AA	7	4	3	POWER AMP CLASS A	425 350	—39 —22.0		18 10		8 8	5000 6000	1600 1330	1.6 0.4	10200 13000		10

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
10CL8	TRIODE PENTODE	HTR	10.5	0.3	9DA-MB9	5BB	1.6 0.04	2.4 7.0	0.20 2.2	OSCILLATOR AMPLIFIER	250 135	Rk 100	13.5	7.3 11.5	3.2	53	0.2MEG	4400 8000			−10 −6	10CL8
10DA7	DOUBLE TRIODE	HTR	10.5	0.6	9EF-MB9	5BC	2.3 6.9	2.0 5.5	0.415 0.82	OSCILLATOR AMPLIFIER	250 150	—8 —17.5		9.0 40		20 6.3	7700 1100	2600 5700			−42	10DA7
12A	TRIODE	FIL	5.0	.25	4D-SM4B	14BA	7.5	4.0	3.0	AMPLIFIER CLASS A	180 135	—13.5 —9		7.7 6.2		8.5 8.5	4700 5100	1800 1650	.285 .130	10650 9000		12A
12A4	TRIODE	HTR	12.6#	.3	9AG-MB9	5BC	4.9	6.7	3.8	VERT. AMP	MAX PEAK POS. PLATE = 1000 V; MAX DC CATHODE CURR. = 30ma MAX PLATE DISSIPATION = 6.5 watts											12A4
12A5	PENTODE	HTR	12.6#	.3	7F-SS7	12BA				POWER AMP CLASS A	180 100	—25 —15	180 100	45 17	8 3		35000 50000	2400 1700	3.4 .08	3300 4500		12A5
12A6GT	BEAM PWR AMP	HTR	12.6	0.15	7S-OGT7	9DB	0.6	9.0	9.0	AMPLIFIER CLASS A	250	—12.5	250	30	3.5			3000	3.0	7500		12A6GT
12A7	DIODE PENTODE	HTR	12.6	.3	7K-SS7	12DA				H W RECT AMP CL A	125 RMS MAX 135	—13.5	135	30 DC MAX 9	2.5	100	TUBE DROP 15v AT 60ma DC .1 MEG 975		.55 13500			12A7
12A8GT	HEPTODE	HTR	12.6	.15	8A-OW8	9CA	2.6*	9.5*	12*	OSC SECT MIXER	250S 100 250 100	.05MEG .05MEG —3 —1.5	 100 50	4.0 2.0 3.5 1.1	 2.7 1.3		GRID #2 RES .02 MEG .36MEG .6 MEG	 550C 360C			 —35 —20	12A8GT
12AB5	BM PENT	HTR	12.6	0.225	9EU-MB9	5AD	0.7	8.0	8.5	POWER AMP	250	−12.5	250	47	7		50K	4100		5000		12AB5
12AC6	PENTODE	HTR	12.6	0.15	7BK-MB7	5AC	0.005	4.3	5.0	AMPLIFIER	12.6	0	12.6	550	28		0.5MEG	730			−5.2	12AC6
12AD6	HEPTODE	HTR	12.6	0.15	7CH-MB7	5AC	0.25	8.0	5.5	OSCILLATOR MIXER	12.6	0	12.6			9		3800			−4.0	12AD6
12AD7	DBLE TRI	HTR	12.6	0.225	9A-MB9	5BB	1.8	1.6	0.45	PREAMP	250	−2		1.25		100	62500	1600				12AD7
12AE6	DI TRI	HTR	12.6	0.15	7DT-MB7	5AC	2.0	1.8	1.1	DET-AMP	12.6	0	12.6	750		15	15000	1000				12AE6
12AF6	PENTODE	HTR	12.6	0.15	7BK-MB7	5AC	0.006	5.5	4.8	RF AMPLIFIER	12.6	0	12.6	0.8	0.3		0.3MEG	1250			−2.7	12AF6
12AG6	HEPTODE	HTR	12.6	0.15	7CH-MB7	5AC	0.065	7.5	5.5	CONVERTER	12.6	0	12.6	0.55	1.4			300			−2.0	12AG6
12AH7GT	TWIN TR	HTR	12.6	.150	8BE-OGT8	9BC	3.0L 2.2R	2.9L 3.2R	2.6L 3.0R	CL A 1 SECT	250 100	—9 —3.6		12 3.7		16 16	6600 10300	2400 1550			−30.0 −8.5	12AH7GT
12AH8	TRIODE HEPTODE	HTR	12.6#	.15	9BP-MB9	5BC		1.7 5.0	.7 8.0	TRIODE SECT HEPTODE SECT	100 250	.047MEG —3	100	2.6	4.4			550C			−22	12AH8
12AL5	DOUBLE DIODE	HTR	12.6	0.15	6BT-MB7	5AA			3.2	DISCRIMINATOR	MAX PEAK INVERSE = 330 volts, MAX Io = 9 madc PER PLATE											12AL5
12AQ5	BM PENT	HTR	12.6	.225	7BZ-MB7	5AD	.35	8.3	8.2	POWER AMP	180 250	—8.5 —12.5	180 250	29 45	3 4.5		58000 52000	3700 4100	2.0 4.5	5500 5000		12AQ5
12AS5	BM PENT	HTR	12.6	.4	7CV-MB7	5AD	.6	12	6.2	POWER AMP	150	—8.5	110	35	2			5600	2.2	4500		12AS5
12AT6	DOUBLE DI-TRI	HTR	12.6	0.15	7BT-MB7	5AC	2.1	2.3	1.1	DET-AMP	250 100	—3 —1		1.0 0.8		70 70		1200 1300				12AT6
12AT7	DOUBLE TRIODE	HTR	12.6#	0.15	9A-MB9	5BB	1.45	2.5	0.45	VOLTAGE AMP	250 100	—2 —1		10 3.7		55 54		5500 4000			—12 —6	12AT7
12AU6	PENTODE	HTR	12.6	0.15	7BK-MB7	5AC	.0035	5.5	5.0	VOLTAGE AMP	250 100	—1 —1	150 100	10.8 5.2	4.3 2.0		1 MEG 0.5MEG	5200 3900			—6.2 —4.2	12AU6
12AU7 12AU7A	DOUBLE TRIODE	HTR	12.6#	0.15	9A-MB9	5BB 5BB	1.5	1.6	0.5	VOLTAGE AMP	250 100	—8.5 0		10.5 11.8		17 19.5		2200 3100				12AU7 12AU7A
12AV5GA	BM PENT	HTR	12.6	0.6	6CK-OM6	11AB	0.5	14	7.0	AMPLIFIER	250	—22.5	150	57	2.1		14500	5900			—43	12AV5GA

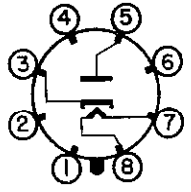
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

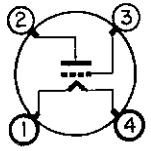
RAYTHEON

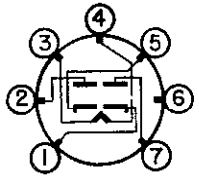
RAYTHEON

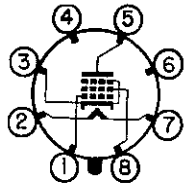
TYPE	DESIGN	CATHODE HTR OR FIL			BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	VOLTS	AMPS			G-P mmfds	IN mmfds	OUT mmfds													
12AV6	DOUBLE DI-TRI	HTR	12.6	0.15	7BT-MB7	5AC	2.1	2.3	0.9	DET-AMP	250 100	—2 —1		1.2 0.5		100 100		1600 1250				12AV6
12AV7	TWIN TRIODE	HTR	12.6#	.225	9A-MB9	5BB	1.9	3.1	.5	AMP CL A	100 150	Rk 120 Rk 56		9 18		37 41		6100 8500			—9 —12	12AV7
12AW6	PENTODE	HTR	12.6	0.15	7CM-MB7	5AC	0.025	6.5	1.5	VOLTAGE AMP	250 100	Rk 200 Rk 100	150 100	7.0 5.5	2.0 1.6		0.8MEG 0.3MEG	5000 4750			—8 —5	12AW6
12AX4GT 12AX4GTA	DIODE	HTR	12.6	.6	4CG-OS6	9DB 9DB				DAMPER	MAX PEAK INVERSE = 4000 V; MAX Io = 125ma											12AX4GT 12AX4GTA
12AX7	DOUBLE TRIODE	HTR	12.6#	0.15	9A-MB9	5BB	1.7	1.6	0.46	VOLTAGE AMP	250 100	—2 —1		1.2 0.5		100 100		1600 1250				12AX7
12AY7	DOUBLE TRIODE	HTR	12.6#	0.15	9A-MB9	5BB	1.3	1.3	0.6	VOLTAGE AMP	250	—4		3.0		40		1750				12AY7
12AZ7	TWIN TRIODE	HTR	12.6#	.225	9A-MB9	5BB	1.9	3.1	.5	AMP CL A	100 250	Rk 100 Rk 200		3.7 10		60 60		4000 5500			—5 —12	12AZ7
12B4 12B4A	TRIODE	HTR	12.6#	.3	9AG-MB9	5BC 5BC	4.3	6.4	7.0	VERT. AMP	MAX PEAK POS. PULSE PLATE = 1000 V; MAX PLATE DISS. = 6 WATTS											12B4 12B4A
12B8GT	TRIODE PENTODE	HTR	12.6	.3	8T-OGT8	9EB	2.3 0.15	5.0 5.2	6.3 9.6	AMP TRIODE CLASS A AMP PENT CLASS A	100 90 100 90	—1 0 —3 —3	 100 90	0.6 2.8 8 7	 2 2	110 90 360 360	73000 37000 .17MEG .20MEG	1500 2400 2100 1800			—2.5 —2.5 —42.5	12B8GT
12BA6	PENTODE	HTR	12.6	0.15	7BK-MB7	5AC	.0035	5.5	5.0	VOLTAGE AMP	250 100	Rk 68 Rk 68	100 100	11.0 10.8	4.2 4.4		1.5MEG 0.25MEG	4400 4300			—20 —20	12BA6
12BA7	PENTA-GRID	HTR	12.6	0.15	8CT-MB9	5BC	0.19	9.5	8.3	CONVERTER	250 100	—1 —1	100 100	3.8 3.6	10 10.2		1 MEG 0.5MEG	950C 900C			—20 —20	12BA7

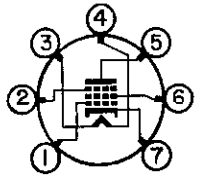
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

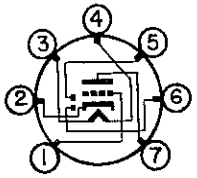


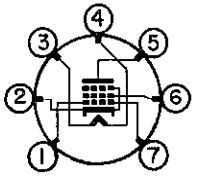


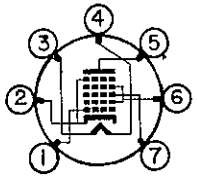


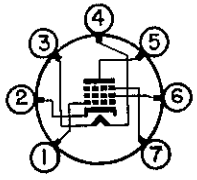


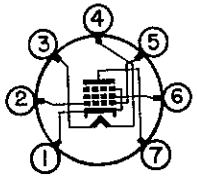


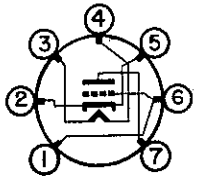


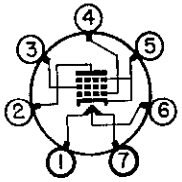


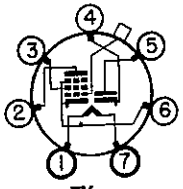


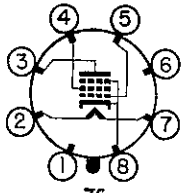


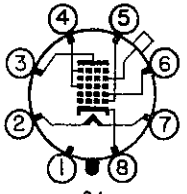


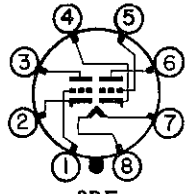


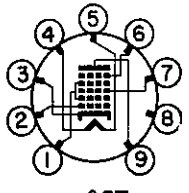


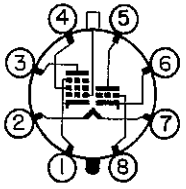


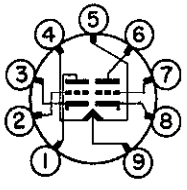


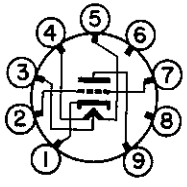


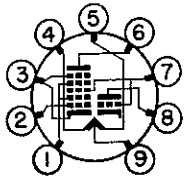


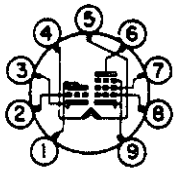


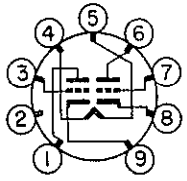


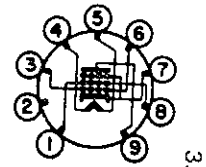












TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
12BD6	PENTODE	HTR	12.6	0.15	7BK-MB7	5AC	0.004	4.3	5.0	VOLTAGE AMP	250 100	—3 —1	100 100	9 13	3 5		0.8MEG 0.15MEG	2000 2550			—35 —35	12BD6
12BE6	PENTA-GRID	HTR	12.6	0.15	7CH-MB7	5AC	0.3	7.2	8.6	CONVERTER	250 100	—1.5 —1.5	100 100	3 2.8	7.1 7.3		1 MEG 0.5MEG	475C 455C			—30 —30	12BE6
12BF6	DOUBLE-DI TRI	HTR	12.6	0.15	7BT-MB7	5AC	2	1.8	1.4	DET-AMP	250	—9		9.5		16		1900				12BF6
12BH7 12BH7A	TWIN TRIODE	HTR	12.6#	.3	9A-MB9	5BC 5BC	2.4	3.3	.8	VERT. AMP	MAX PEAK POS. PULSE PLATE = 1500 V; MAX PLATE DISS. = 3.5 WATTS											12BH7 12BH7A
12BK5	BM PENT	HTR	12.6	0.6	9BQ-MB9	5BC	0.6	13	5.0	POWER AMP	250	—5.0	250	35	3.5		0.1MEG	8500	3.5	6500		12BK5
12BK6	DBLE DI TRIODE	HTR	12.6	.15	7BT-MB7	5AD				DET.-AMP	100 250	—1 —2		.5 1.2		100 100		1250 1600				12BK6
12BN6	GATED BM	HTR	12.6	.15	7DF-MB7	5AD				DISCRIMINATOR	80	Input sig. center freq. = 10.7 Mc; Freq. Dev. = ± 75 kc										12BN6
12BQ6GA 12BQ6GTA	BEAM PENTODE	HTR	12.6	0.6	6AM-OGT6	11BB 9EC	0.6	15	7.5	POWER AMPLIFIER	250	—22.5	150	55	2.1		20000	5500			—46	12BQ6GA 12BQ6GTA
12BQ6GTB						9EC											18000	6000				12BQ6GTB
12BR7	DBLE DI TRIODE	HTR	12.6	0.225	9CF-MB9	5BB	1.9	2.8	1.0	CL A AMP	250	Rk 200		10		60	10900	5500			—12	12BR7
12BT6	DBLE DI TRIODE	HTR	12.6	.15	7BT-MB7	5AD				DET.-AMP	100 250	—1 —3		.8 1.0		70 70		1300 1200				12BT6
12BU6	DBLE DI TRIODE	HTR	12.6	.15	7BT-MB7	5AD				DET.-AMP	250	—9		9.5		16		1900	.300	10000		12BU6
12BV7	PENTODE	HTR	12.6	6.3	9BF-MB9	5BC	0.055	11.0	3.0	AMPLIFIER	250	Rk 68	150	27	6.0	10000	85000	13000			—12	12BV7
12BW4	DBLE DI	HTR	12.6	0.45	9DJ-MB9	5AD				FW RECTIFIER	MAX PEAK INVERSE = 1275 volts					MAX Io = 35						12BW4
12BY7 12BY7A	PENTODE	HTR	12.6#	.3	9BF-MB9	5BC 5BC	.055	11.1	3	VIDEO AMP	250	Rk 68	150	25	6		90000	12000			—10	12BY7 12BY7A
12BZ7	TWIN TRIODE	HTR	12.6#	.3	9A-MB9	5BC	2.5	6.5	.7	AMP CL A	250	—2		2.5			100	3200				12BZ7
12C5	BM PENT	HTR	12.6	0.6	7CV-MB7	5AD	0.5	13	6.5	POWER AMP	110	—7.5	110	50	8.5		14000	7500	1.9	2500		12C5
12C8	DUO-DI PENTODE	HTR	12.6	.15	8E-OW7	8FA	.005	6	9	AMPLIFIER CLASS A	250 100	—3 —3	125 100	10 5.8	2.3 1.7		.6 MEG .3 MEG	1325 950			—21 —17	12C8
12CA5	BM PENT	HTR	12.6	0.6	7CV-MB7	5AD	0.5	15	9	AF AMPLIFIER	125	—4.5	125	36	4.0		15000	9200		4500		12CA5
12CM6	BM PENT	HTR	12.6	.225	9CK-MB9	5BC	.7	8	8.5	VERT. AMP	MAX PEAK POS. PLATE = 2000 V; MAX PEAK Ik = 120ma MAX PLATE DISS. = 8 WATTS											12CM6
12CN5	PENTODE	HTR	12.6	0.45	7CV-MB7	5AD	0.25			IF AMPLIFIER	12.6	0	12.6	4.5	3.5		40000	3800				12CN5
12CR6	DI PENT	HTR	12.6	0.15	7EA-MB7	5AC				DET-AMP	250	—2	100	9.6	2.6		0.8MEG	2200			—32	12CR6
12CS5	BM PENT	HTR	12.6	0.6	9CK-MB9	5BC	0.5	15	9	AMPLIFIER	110	—7.5	110	50	10		13000	8000		2000		12CS5
12CS6	HEPTODE	HTR	12.6	0.15	7CH-MB7	5AC	0.05	5.5	7.5	CL A AMP	100	—1.0	30	0.75	1.1		1MEG	950			—2.5	12CS6
12CT8	TRIODE PENTODE	HTR	12.6	0.3	9DA-MB9	5BB	2.2 0.044	2.4 7.5	0.19 2.4	AMPLIFIER	150 200	Rk150	125	9.0 15.0	3.4	40	0.15MEG	4900 7000			—6.5 —8	12CT8
12CU5	BM PENT	HTR	12.6	0.6	7CV-MB7	5AD	0.7	13.2	8.6	POWER AMPLIFIER	120	—8	110	50	8.5		10000	7500		2500		12CU5
12D4	DIODE	HTR	12.6	0.6	4CG-OGT8	9DB		6.0	8.0	HW RECTIFIER	MAX PEAK INVERSE = 4400 volts					MAX Io =	155 ma					12D4
12DB5	BM PENT	HTR	12.6	0.6	9GR-MB9	5BC	0.5	15	9	POWER AMP	110	—7.5	110	50	10		13000	8000		2000		12DB5

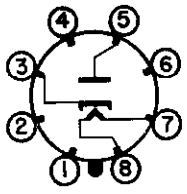
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

RAYTHEON

RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
12DQ6A	BM PENT	HTR	12.6	0.6	6AM-OM7	12JC	0.55	15	7	POWER AMP	250	—22.5	150	75	2.4		20000	6600			—46	12DQ6A
12E5GT	TRIODE	HTR	12.6	0.15	6Q-OGT6	9BC	2.8	3.8	2.6	AMP CL A	250 100	—13.5 —5		5.0 2.5		13.8 13.8	9500 12000	1450 1150				12E5GT
12F5GT	TRIODE	HTR	12.6	.15	5M-OW5	9EA	2.0*	6*	12*	AMPLIFIER CLASS A	250 100	—2 —1		0.9 0.4		100 100	66000 85000	1500 1150				12F5GT
12F8	DBLE DI PENTODE	HTR	12.6	0.15	9FH-MB9	5BB	4.5	3.0	0.06	VOLTAGE AMP	12.6	0	12.6	1.0	0.38		0.3MEG	1000			—5	12F8
12G4	TRIODE	HTR	12.6#	.15	6BG-MB7	5AD	3.4	2.4	.9	AMP CL A	90 250	0 —8		10 9			20 20	3000 2600			—7 —18	12G4
12G8	DBLE TRI	HTR	12.6	0.4	9CZ-MB9	5BC				AF DRIVER	12.6	0				22	8500	2600		2000		12G8
12H4	TRIODE	HTR	12.6	0.15	7DW-MB7	5AC	3.4	2.4	0.9	AMPLIFIER	250	—8		9		20		2600			—18	12H4
12H6	DUO DI	HTR	12.6	0.15	7Q-OW7	8BA	3.0	3.4	0.10	DETECTOR	150	MAX		8 MAX EACH DIODE								12H6
12J5GT	TRIODE	HTR	12.6	.15	6Q-OW6	9DB	3.8*	4.2*	5.0*	AMPLIFIER CLASS A	250 90	—8 0		9.0 10.0		20 20	7700 6700	2600 3000				12J5GT
12J8	DUO DIODE TETRODE	HTR	12.6	0.35	9GC-MB9	5BB				AMPLIFIER	12.6	0	12.6	14	3		4000	5400		2000		12J8
12K5	TETRODE	HTR	12.6	0.45	7EK-MB7	5AD				POWER AMP DRIVER	12.6	—2.0	12.6	85	35		100000			800		12K5
12J7GT	PENTODE	HTR	12.6	.15	7R-OW7	9CA	.005*	4.6*	12*	AMP CL A PENT CONN TRI CONN	250 100 250	—3 —3 —8	100 100	2.0 2.0 6.5	0.5 0.5	 20	1.5MEG 1.0MEG 10500	1225 1185 1900			—7 —7	12J7GT
12K7GT	PENTODE	HTR	12.6	.15	7R-OW7	9CA				AMPLIFIER CLASS A	250 250 100	—3 —3 —1	125 100 100	10.5 7.0 9.5	2.6 1.7 2.7		.6 MEG .8 MEG .15MEG	1650 1450 1650			—52.5 —42.5 —38.5	12K7GT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES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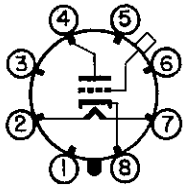
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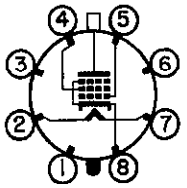
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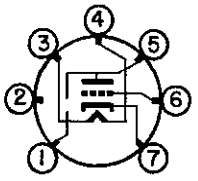
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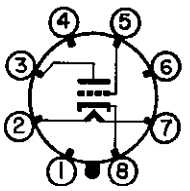
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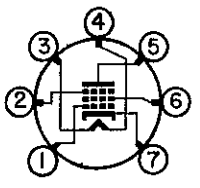
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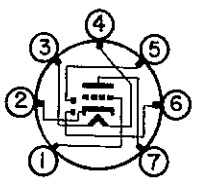
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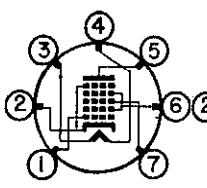
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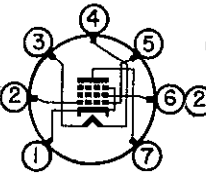
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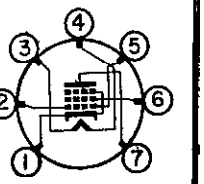
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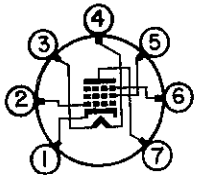
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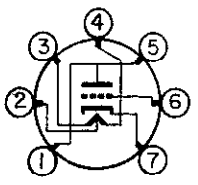
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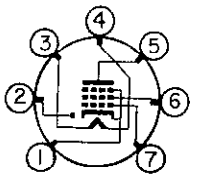
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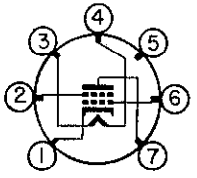
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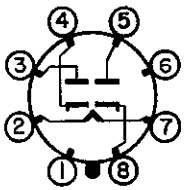
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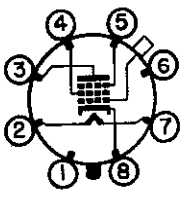
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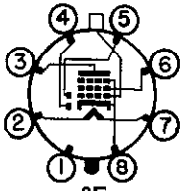
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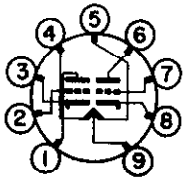
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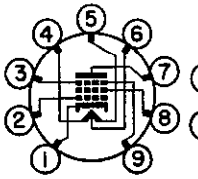
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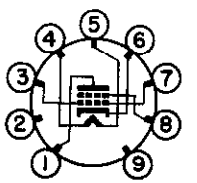
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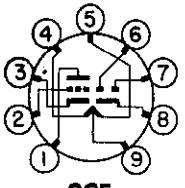
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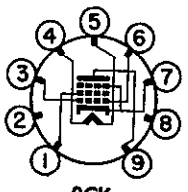
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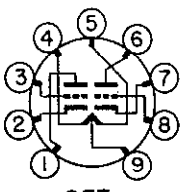
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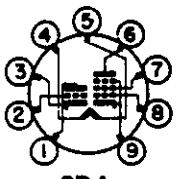
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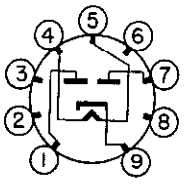
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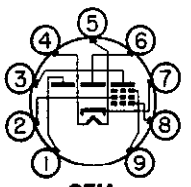
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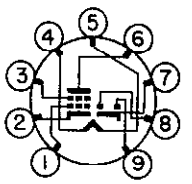
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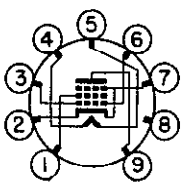
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RAYTHEON

TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
12K8GT	TRIODE HEXODE	HTR	12.6	.15	8K-OW8	9CB	.08*	4.6*	4.8*	OSC TRIODE MIXER HEX	100 250 100	.05MEG —3 —3	 100 100	3.8 2.5 2.3	 6.0 6.2		 .6 MEG .4 MEG	3000 350C 325C	(TRIODE GRID 0v)		—30 —30	12K8GT
12L6GT	BEAM PWR AMP	HTR	12.6	0.6	7S-OGT7	9DB				CL A AMP	200	—8.0	110	50	1.5		35000	8250	4.3	3000		12L6GT
12L8GT	TWIN PENTODE	HTR	12.6	0.15	8BU-OGT8	9DB	0.7	5.0	6.0	POWER AMP CLASS A	180	—9	180	13	2.4		0.16MEG	2150	1.0	10000		12L8GT
12Q7GT	DUO-DI TRIODE	HTR	12.6	.15	7V-OW7	9CA	1.6*	2.2*	5*	AMPLIFIER CLASS A	250 100	—3 —1.0		1.0 0.8		70 70	58000 58000	1200 1200				12Q7GT
12R5	BM PENT	HTR	12.6	0.6	7CV-MB7	5AC	0.55	13	9.0	POWER AMP	110	—8.5	110	40	3.3		13000	7000			—22	12R5
12S8GT	TRIP-DI TRI	HTR	12.6	0.15	8CB-OGT8	9EC				DET-AMP	250 100	—2 —1		0.9 0.4		100 100		1100 900				12S8GT
12SA7 12SA7GT	HEPTODE	HTR	12.6	.15	8R-OW8 8AD-OW8	8BB 9BC	.13 .20	9.5 11.0*	12 12.0*	OSC SECT MIXER	OSC 250	GRID RES —.02 MEG —2	100	3.5	8.5		OSC GRID CUR —.5ma 1.0MEG	450C			—35	12SA7 12SA7GT
12SC7	TWIN TRI	HTR	12.6	.15	8S-OW8	8BB				AMP CL A 1 SEC	250	—2		2		70	53000	1325				12SC7
12SF5 12SF5GT	TRIODE	HTR	12.6	.15	6AB-OW6 6AB-OGT6	8BB 9DB	2.6 2.6*	4.2 4.2*	3.8 3.8*	AMPLIFIER CLASS A	250 100	—2 —1		0.9 0.4		100 100	66000 85000	1500 1150				12SF5 12SF5GT
12SF7 12SF7GT	DIODE PENTODE	HTR	12.6	0.15	7AZ-OW8 7AZ-OGT8	8BB 9BC	0.004	5.5	6.5	AMP CL A	250 100	—1 —1	125 100	12.4 12	3.3 3.4		0.7MEG 0.2MEG	2050 1975			—35 —35	12SF7 12SF7GT
12SG7	PENTODE	HTR	12.6	0.15	8BK-OW8	8BB	0.003	8.5	7.0	AMP CL A	250 100	—1 —1	125 100	11.8 8.2	4.4 3.2		0.9MEG 0.25MEG	4700 4100			—14 —11.5	12SG7
12SH7	PENTODE	HTR	12.6	0.15	8BK-OW8	8BB	0.003	8.5	7.0	AMP CL A	250 100	—1 —1	100 100	10.8 5.3	4.1 2.1		0.9MEG 0.35MEG	4900 4000			—5.5 —4	12SH7
12SJ7 12SJ7GT	PENTODE	HTR	12.6	.15	8N-OW8 8N-OW8	8BB 9BC	.005	6.0	7.0	AMPLIFIER CLASS A	250 100	—3 —3	100 100	3.0 2.9	0.8 0.9		1.5MEG 0.7MEG	1650 1575			—9 —9	12SJ7 12SJ7GT
12SK7 12SK7GT	PENTODE	HTR	12.6	.15	8N-OW8 8N-OW8	8BB 9BC	.003 .005	6.0 6.5	7.0 7.5	AMPLIFIER CLASS A	250 100	—3 —1	100 100	9.2 13.0	2.6 4.0		0.8MEG .12MEG	2000 2350			—35 —35	12SK7 12SK7GT
12SL7GT	TWIN TRI	HTR	12.6	0.15	8BD-OGT8	9DB				CL A 1 SECT	250	—2		2.3		70	44000	1600				12SL7GT
12SN7GT	TWIN TRI	HTR	12.6	0.3	8BD-OGT8	9DB	4L 4R	3.2L 3.8R	3.4L 2.6R	CL A 1 SECT	250 90	—8 0		9 10		20 20	7700 6700	2600 3000				12SN7GT
12SQ7 12SQ7GT	DUO-DI TRIODE	HTR	12.6	.15	8Q-OW8 8Q-OW8	8BB 9BC	1.8	4.2	3.4	AMPLIFIER CLASS A	250 100	—2 —1		0.9 0.4		100 100	91000 110000	1100 900				12SQ7 12SQ7GT
12SR7 12SR7GT	DUO-DI TRIODE	HTR	12.6	.15	8Q-OW8 8Q-OGT8	8BB 9DB	 2.3*	 3.5*	 3.8*	AMP CL A	250	—9		9.5		16	8500	1900				12SR7 12SR7GT
12SW7	DBLE-DI TRI	HTR	12.6	0.15	8Q-OW8	8BB	2.4	3.0	2.8	DET-AMP	250 26.5	—9 0		9.5 1.1		16 17		1900 1100				12SW7
12SX7GT	DOUBLE TRIODE	HTR	12.6	0.3	8DB-OGT8	9DB	3.6	2.8	1.2	VOLTAGE AMP	250 26.5	—8 0		9.0 1.8		20 21		2600 1800				12SX7GT
12SY7 12SY7GT	PENTA-GRID	HTR	12.6	0.15	8R-OW8 8AD-OGT8	8BB 9BC	0.13 0.2	9.5 11	12 12	CONVERTER	250 28	—2 —1	100 28	3.5 0.5	8.5 1.8		1 MEG	450C 250C				12SY7 12SY7GT
12U7	DBLE TRI	HTR	12.6	0.15	7CK-MB9	5BB	1.5	1.6	0.40	CL A AMP	12.6	0	12.6	1.0		20	12500	1600			—1.5	12U7
12V6GT	PENTODE	HTR	12.6	.225	7S-OGT7	9DB	.7	9	7.5	POWER AMP	180 250 315	—8.5 —12.5 —13	180 250 315	29 45 34	3 4.5 2.2		50000 50000 80000	3700 4100 3750	2.0 4.5 5.5	5500 5000 8500		12V6GT
12X4	DBLE DI	HTR	12.6	.3	5BS-MB7	5AD				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX Io = 70ma DC											12X4
12Z3	DIODE	HTR	12.6	.3	4G-SS4	12BA				HW RECTIFIER	235 RMS MAX			55 DC MAX			TUBE DROP 17v AT 110ma DC					12Z3

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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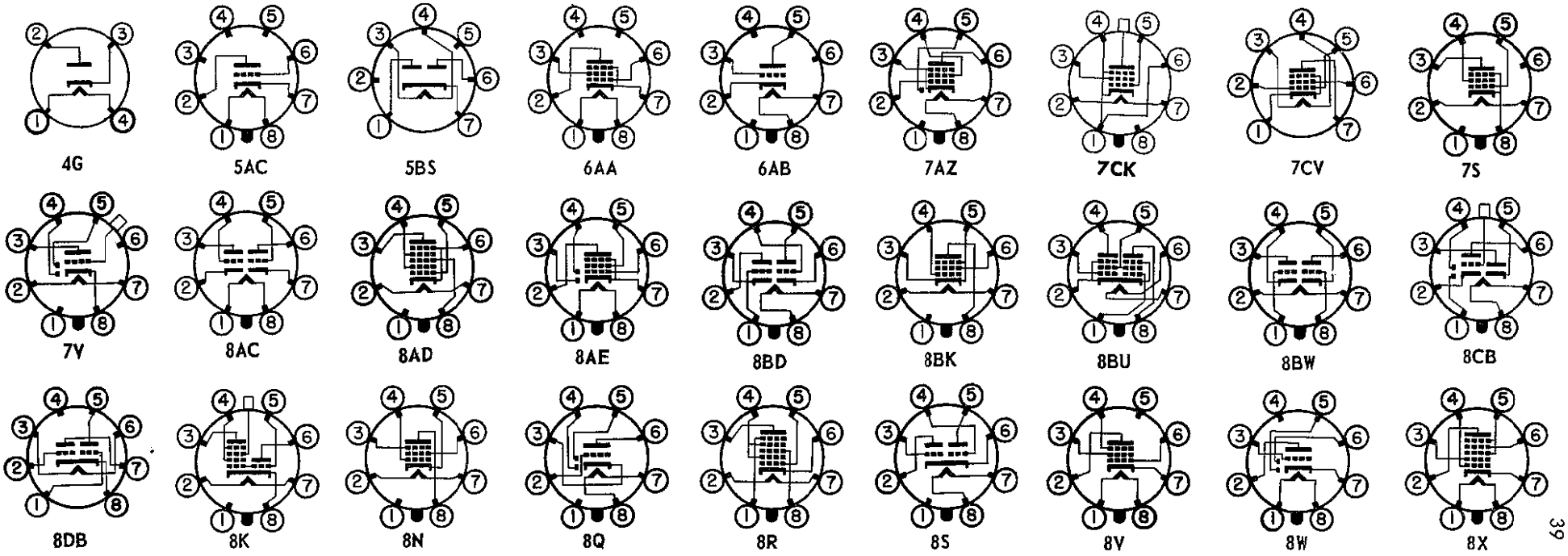
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
14A4	TRIODE	HTR	12.6	0.15	5AC-L8	9AC	4.0	3.4	3.0	AMP CL A	250 90	—8 0		9 10		20 20	7700 6700	2600 3000				14A4
14A5	PENTODE	HTR	12.6	0.15	6AA-L8	9AD				POWER AMP CLASS A	250	—12.5	250	30	3.5		50000	3000	2.5	7500		14A5
14A7/12B7	PENTODE	HTR	12.6	.15	8V-L8	9AC	.005*	5.5*	7.0*	AMP CL A	250 100	—3 —1	100 100	9.2 13.0	2.6 4.0	1600 1600	.8 MEG .12MEG	2000 2350			—35 —35	14A7/12B7
14AF7	TWIN TRI	HTR	12.6	0.150	8AC-L8	9AC	2.3L 2.3R	2.2L 2.2R	1.6L 1.6R	CL A 1 SECT	250 100	—10 0		9.0 10.8		16 17	7600 6500	2100 2600				14AF7
14B6	DUO-DI TRIODE	HTR	12.6	0.15	8W-L8	9AC				DETECTOR AMPLIFIER	250 100	—2 —1		0.9 0.4		100 100	91000 110000	1100 900				14B6
14B8	HEPTODE	HTR	12.6	0.15	8X-L8	9AC	0.20	10	9.0	OSC SECT MIXER	250S 250	.05MEG —3	100	4.0 3.5	2.7		GRID #2 RES .02 MEG .36MEG 550C				—35	14B8
14C5	BEAM PWR AMP	HTR	12.6	0.225	6AA-L8	9AD				PR AMP CL A CL AB 2 TUBE	315 285	—13 —19	225 285	34 70	2.2 4		77000 65000	3750 3600	5.5 14	8500 8000		14C5
14C7	PENTODE	HTR	12.6	0.15	8V-L8	9AC	0.007	6.0	6.5	AMP CL A	250 100	—3 —1	100 100	2.2 5.7	0.7 1.8		1 MEG 0.325MEG	1575 2275			—9 —9	14C7
14E6	DUO-DI TRIODE	HTR	12.6	0.15	8W-L8	9AC				AMP CL A	250 100	—9 —3		9.5 3.9		16 16.5	8500 11000	1900 1500				14E6
14E7	DUO-DI PENTODE	HTR	12.6	0.15	8AE-L8	9AC	0.005	4.6	5.3	DETECTOR AMPLIFIER	250 100	—3 —1	100 100	7.5 10	1.6 2.7		0.7 MEG 0.15MEG	1300 1600			—42.5 —36	14E7
14F7	TWIN TRI	HTR	12.6	0.15	8AC-L8	9AC				CL A 1 SECT	250 100	—2 —1		2.3 0.65		70 70	44000 62000	1600 1125				14F7
14F8	DOUBLE TRIODE	HTR	12.6	0.15	8BW-L8	9AB	1.2	2.8	1.4	VOLTAGE AMP	250	Rk 500		6.0	48			3300				14F8

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
14H7	PENTODE	HTR	12.6	.15	8V-L8	9AC	.007*	8.0*	7.0*	AMP CL A	250 100	—2.5 —1	150 100	9.5 8.2	3.5 3.3		.8 MEG .25MEG	3800 3800			—19 —12	14H7
14J7	TRI HEX	HTR	12.6	0.15	8BL-L8	9AC	0.01	5.5	7.5	OSC-TRIODE MIXER HEX	250S 250	.05MEG —3	100	5.4 1.3	2.9		TRIODE PLATE RESISTOR .02 MEG 1.5MEG	300C			—20	14J7
14N7	TWIN TRI	HTR	12.6	0.30	8AC-L8	9AD	3.0R 3.0L	2.9R 3.4L	2.4R 2.0L	CL A 1 SECT	250 90	—8 0		9 10		20 20	7700 6700	2600 3000				14N7
14Q7	HEPTODE	HTR	12.6	0.15	8AL-L8	9AC	.2	9.0	9.0	OSC SECT MIXER	OSC GRID RESIS —.02 MEG 250	—2	100	3.5	8.5		OSC GRID CUR —.5ma 1.0MEG	550C			—35	14Q7
14R7	DUO-DI PENTODE	HTR	12.6	0.150	8AE-L8	9AC	0.004	3.6	5.3	AMP CL A	250 100	—1 —1	100 100	5.7 5.5	1.7 2.0		1.0MEG 0.35MEG	3200 3000			—20 —16	14R7
14S7	TRI HEX	HTR	12.6	0.15	8BL-L8	9AC	0.02	5.0	8.0	OSC-TRIODE MIXER	250 250	—2	100	5.0 1.8	3.0		TRIODE PLATE RESIS .02 MEG 1.25MEG	525C			—21	14S7
14V7	PENTODE	HTR	12.6	0.225	8V-L8	9AC	0.004	9.5	6.5	HI FREQ AMP	300	—2	150	9.6	3.9		.3 MEG	5800			—6	14V7
14W7	PENTODE	HTR	12.6	0.225	8BJ-L8	9AC	0.0025	9.5	7.0	AMP CL A	300 300	—2 —2	150 300	10.0 THRU .04 MEG (OTHER VALUES SAME AS ABOVE)	3.9		.3 MEG	5800			—6 —14	14W7
14X7	DBLE-DI TRI	HTR	12.6	0.15	8BZ-L8	9AD				DET-AMP	250 100	—1 0		1.9 1.2		100 85		1500 1000				14X7
14Y4	TWIN DI	HTR	12.6	0.3	5AB-L8	9AD				F W RECTIFIER	325 RMS MAX COND IN 60 DC MAX TUBE DROP 20v AT 60ma DC 450 RMS MAX CHOKE IN 60 DC MAX											14Y4
15	PENTODE	HTR	2.0	.22	5F-SS5	12DA	.01*	2.4	7.8	AMPLIFIER CLASS A	135 67.5	—1.5 —1.5	67.5 67.5	1.85 1.85	0.3 .3	600 450	.8 MEG .63MEG	750 710				15
15A6	PENTODE	HTR	15	.3	9AR-MB9	5BD	.1	10	7	VIDEO AMP	180	—2.9	180	36	4.6		.1 MEG	10000				15A6
15A8	TRIODE BM PENT	HTR	15.0	0.6	8GS-OGT8	9EC	3.4 0.7	2.6 11.0	0.9 5.0	OSCILLATOR AMPLIFIER	110	—7.5	110	45	4.0		13000	7300				15A8
16A5	PENTODE	HTR	16.5	.3	9BL-MB9	5BD	1	11	5.9	POWER AMP	200	—13.9	180	45	8.5		24000	7600	4.2	4000		16A5
17AX4GT	DIODE	HTR	16.8	0.45	4CG-OS5	9DB				DAMPER	MAX PEAK INVERSE = 4000 volts; MAX Io = 125 ma											17AX4GT
17AV5GA	BM PENT	HTR	16.8	0.45	6CK-OM6	11AB	0.5	14	7.0	AMPLIFIER	250	—22.5	150	57	2.1		14500	5900			—43	17AV5GA
17C5	BM PENT	HTR	16.8	0.45	7CV-MB7	5AD	0.5	13	6.5	POWER AMP	110	—7.5	110	50	8.5		14000	7500	1.9	2500		17C5
17CA5	BM PENT	HTR	16.8	0.45	7CV-MB7	5AD	0.5	15	9	AF AMPLIFIER	125	—4.5	125	36	4.0		15000	9200		4500		17CA5
17CU5	BM PENT	HTR	16.8	0.45	7CV-MB7	5AD	0.7	13.2	8.6	POWER AMP	120	—8	110	50	8.5		10000	7500		2500		17CU5
17DQ6A	BM PENT	HTR	16.8	0.45	6AM-OM7	12JC	0.55	15	7	POWER AMP	250	—22.5	150	75	2.4		20000	6600			—46	17DQ6A
17H3	DIODE	HTR	17.5	0.3	9FK-MB9	5BC	5.5	4.0	2.0	DAMPER	MAX PEAK INVERSE = 2000 volts; Io = 75 ma MAX											17H3
17L6GT	BEAM PWR AMP	HTR	16.8	0.45	7S-OGT7	9DB				CLASS A AMP	200	—8.0	110	50	1.5		35000	8250	4.3	3000		17L6GT
17R5	BM PENT	HTR	16.8	0.45	7CV-MB7	5AC	0.55	13	9.0	POWER AMP	110	—8.5	110	40	3.3		13000	7000			—22	17R5
17Z3	DIODE	HTR	17	.3	9CB-MB9	5CD				HW RECTIFIER	MAX PEAK INVERSE = 4500 V; MAX Io = 150ma DC											17Z3
18A5	BM PENT	HTR	18.5	0.3	6CK-OGT6	9BD	0.7	13	7.0	POWER AMP	200	—17	125	40	1.1	4.6	27000	4800			—36	18A5
19	TWIN TR	FIL	2.0	.26	6C-SS6	12BA				CLASS B TWO SECT	135 135	0 —6		10 0.1	NO SIG NO SIG				2.1 1.6	10000 10000		19
19AQ5	BM PENT	HTR	18.9	.15	7BZ-MB7	5AD				POWER AMP	180 250	—8.5 —12.5	180 250	29 45	3 4.5		58000 52000	3700 4100	2.0 4.5	5500 5000		19AQ5
19AU4 19AU4GTA	DIODE	HTR	18.9	0.6	4CG-OS6	9FB 9FB				DAMPER	MAX PEAK INVERSE = 4500 volts; MAX Io = 175 ma											19AU4 19AU4GTA

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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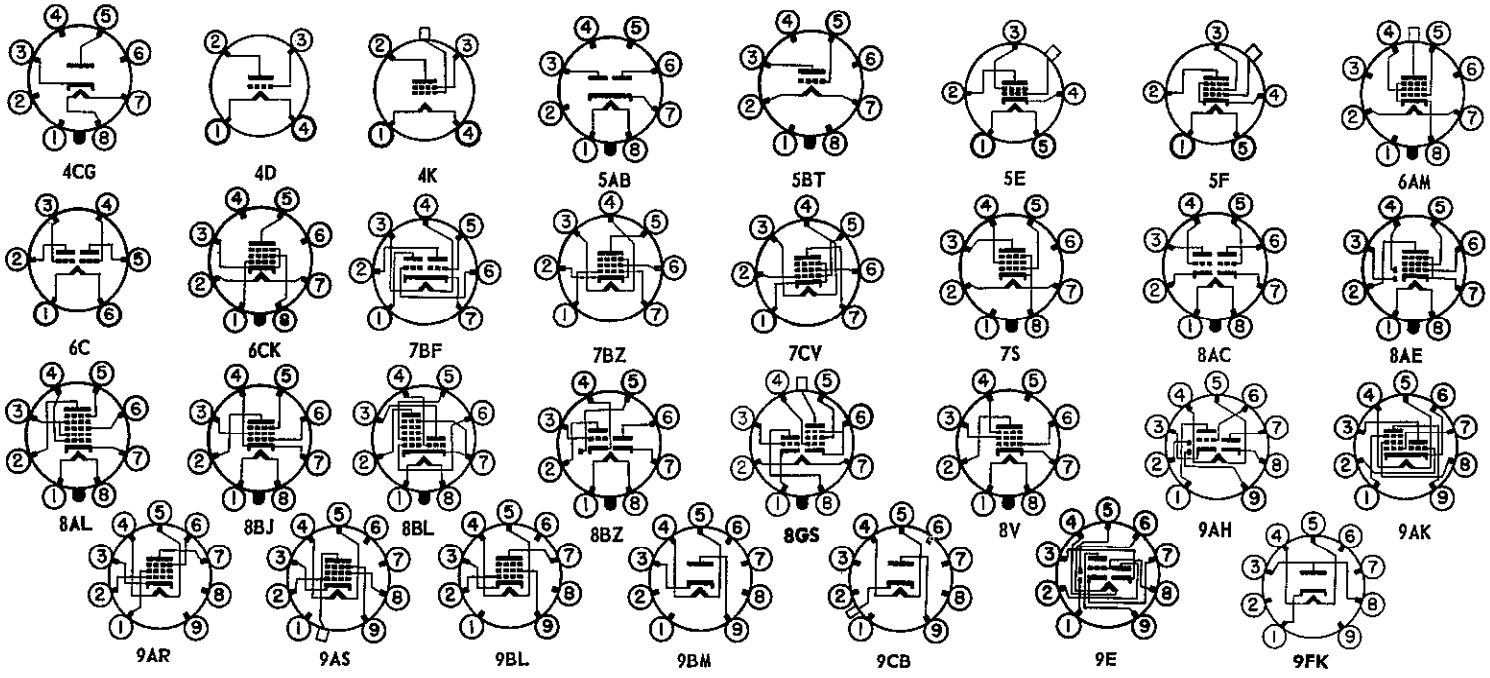
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
19BG6G	BEAM PENTODE	HTR	18.9	0.3	5BT-OM6	16BA	0.65	11	6.5	DEFLECT AMP	MAX PEAK POS PLATE SURGE = 6000 volts; MAX Ib = 100 ma											19BG6G
19BG6GA	BM PENT	HTR	18.9	0.3	5BT-OM6	12JE	0.5	11.0	6.5	DEFLECT AMP	MAX PEAK POS PLATE SURGE = 6000 volts; MAX Ib = 100 ma											19BG6GA
19C8	TRIPLE DI TRIODE	HTR	18.9	.15	9E-MB9	5BB				AMP CL A	100	—1		.5		100		1250				19C8
19J6	DOUBLE TRIODE	HTR	18.9	0.15	7BF-MB7	5AC	1.5	2.0	0.4	CONVERTER	150	Rk 810		4.8			10200	1900C				19J6
19T8	TRIP-DI TRI	HTR	18.9	0.15	9E-MB9	5BB	2.4	1.5	1.1	DET-AMP	250 100	—3 —1		1.0 0.8		70 70		1200 1300				19T8
19V8	TRIPLE DI TRIODE	HTR	18.9	.15	9AH-MB9	5BB				AMP CL A	100 250	—1 —3		.8 1.0		70 70		1300 1200				19V8
19X3	DIODE	HTR	19	.3	9BM-MB9	5CC				HW RECTIFIER	MAX PEAK INVERSE = 4000 V; MAX Io = 180ma DC											19X3
19X8	TRIODE PENTODE	HTR	18.9	.15	9AK-MB9	5BB	1.4 .9	2.0 4.3	.5 .7	TRIODE SECT PENTODE SECT	150 150	Rg = 2700 —3.5 150		13 6.2		(250 MC OSC) 1.8		2100C	(MIXER)			19X8
19Y3	DIODE	HTR	19	.3	9BM-MB9	5BD				HW RECTIFIER	MAX PEAK INVERSE = 700 V; MAX Io = 180ma DC											19Y3
20	TRIODE	FIL	3.3	.132	4D-SS4	9FC	4.1	2.0	2.3	PR AMP CL A	135	—22.5		6.5		3.3	6300	525	.11	6500		20
21A6	PENTODE	HTR	21.5	.3	9AS-MB9	5CD	.4	14.3	6.5	AMP CL A	180	—23	180	45	3			6500				21A6
22	TETRODE	FIL	3.3	.132	4K-SM4	14CA	.02*	3.3	12	AMP CL A	135	—1.5	67.5	3.7	1.3		.33MEG	500				22
24A 24S	TETRODE	HTR	2.5	1.75	5E-SM5 5E-SM5	14CA	.007*	5.3	10.5	AMPLIFIER CLASS A	250 180	—3 —3	90 90	4 4	1.7 1.7	630 400	.6 MEG .4 MEG	1050 1000				24A 24S
25A6 25A6G 25A6GT	PENTODE	HTR	25	.3	7S-OW7 7S-OM7 7S-OW7	8FA 14BA 9DB				AMPLIFIER CLASS A	160 135 95	—18 —20 —15	120 135 95	33 37 20	6.5 8 4		42000 35000 45000	2375 2450 2000	2.2 2.0 0.9	5000 4000 4500		25A6 25A6G 25A6GT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
25A7GT	DIODE PENTODE	HTR	25	.3	8F-OGT8	9DB				H W RECT AMP CL A	117 100	RMS MAX —15	100	75 DC MAX 20.5	4	90	TUBE DROP 23v AT 150ma DC 50000	1800	.77	4500		25A7GT
25AC5GT	TRIODE	HTR	25	.3	6Q-OGT6	9DB	6AE5G DRIVER			DIR C'P'D AMP	110	FROM DRIVER		45					2	2000		25AC5GT
25AV5GA	BM PENT	HTR	25.0	0.3	6CK-OM6	11AB	0.5	14	7.0	AMPLIFIER	250	—22.5	150	57	2.1		14500	5900			—43	25AV5GA
25AV5GT	BM PENT	HTR	25	.3	6CK-OGT6	9EA				HORIZ AMP	MAX PEAK POS. PLATE SURGE = 5500 V MAX Ik = 100ma											25AV5GT
25AX4GT	DIODE	HTR	25	.300	4CG-OS5	9DB				DAMPER	MAX PEAK INVERSE = 4000 V; MAX Io = 125ma.											25AX4GT
25B5	DUO-TRI	HTR	25	0.3	6D-SS6	14BA	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP 2 TUBES CL A	180 180	—20 +		5.8 46		35	15200	2300	3.8	4000		25B5
25B6G	PENTODE	HTR	25	.3	7S-OM7	14BA				POWER AMP CLASS A	200 135 105	—23 —22 —16	135 135 105	62 61 48	1.8 2.5 2.0		18000 15000 15500	5000 5000 4800	7.1 4.3 2.4	2500 1700 1700		25B6G
25B8GT	TRIODE PENTODE	HTR	25	.15	8T-OGT8	9EB				CL A TRIODE CL A PENTODE	100 100	—1 —3	100	0.6 7.6	2.0	113	.08MEG .19MEG	1500 2000			—2.5 —41	25B8GT
25BK5	BM PENT	HTR	25	.3	9BQ-MB9	5BC	.6	13	5	POWER AMP	250	—5	250	35	3.5		.1 MEG	8500	3.5	6500		25BK5
25BQ6GT	BM PENT	HTR	25	.3	6AM-OGT7	9EC	.95	14	9.5	HORIZ. AMP	MAX PEAK POS. PLATE SURGE = 5500 V MAX PLATE DISS = 12 WATTS											25BQ6GT
25BQ6GA 25BQ6GTB	BM PENT	HTR	25.0	0.3	6AM-OGT6	11BB 9EC	0.6	15	7.5	POWER AMP	250	—22.5	150	55	2.1		20000 18000	5500 6000			—46	25BQ6GA 25BQ6GTB
25C5	BM PENT	HTR	25	.3	7CV-MB7	5AD				POWER AMP	110	—7.5	110	49	4		10000	7500	1.9	2500		25C5
25C6G	BW PWR	HTR	25	.3	7S-OM7	14AA				POWER AMP CLASS A	200 135	—14 —13.5	135 135	61 58	2.2 3.5		18300 9300	7100 7000	6.0 3.6	2600 2000		25C6G
25C6GA	BM PENT	HTR	25.0	0.3	7S-OM7	12GD				CL A AMP	200	—14	135	66	9		18300	7100	6	2600		25C6GA
25CA5	BM PENT	HTR	25.0	0.3	7CV-MB7	5AD	0.5	15	9	AF AMPLIFIER	125	—4.5	125	36	4.0		15000	9200		4500		25CA5
25CD6G 25CD6GA	BM PENT BEAM	HTR	25	.3	5BT-OM6	16CA 16CA	1.0	2.6	10	HORIZ. AMP HORIZ. DEFLECT	430	Rk 270	165	112	14	MAX PULSE PEAK POS. PLATE = 6000 V						25CD6G 25CD6GA
25CD6GB	PENTODE	HTR	25.0	0.6	5BT-OM8	12JE	1.1	22	8.5	AMPLIFIER	175	—30	175	75	5.5		7200	7700			—55	25CD6GB
25D8GT	DIODE TRIODE PENTODE	HTR	25	0.15	8AF-OGT8	9DB	2.5 0.015	3.7 5.2	4.5 10	DETECTOR CL A TRIODE CL A PENTODE	100 100	—1 —3	100	0.5 8.5	2.7	100	91000 0.2MEG	1100 1900			—35	25D8GT
25DN6	PENTODE	HTR	25.0	0.6	5BT-OM8	12JE	0.8	22	11.5	POWER AMP	125	—18	125	70	6.3		4000	9000			—36	25DN6
25DQ6	BM PENT	HTR	25.0	0.3	6AM-OM7	12JC	0.55	15	7	POWER AMP	250	—22.5	150	75	2.4		20000	6600			—46	25DQ6
25F5	BM PENT	HTR	25.0	0.15	7CV-MB7	5AD				CL A AMP	110	—7.5	110	37	7.0		16000	5800		2500		25F5
26E6G	BM PENT	HTR	26.5	0.3	7S-OGT8	11AA				POWER AMP	200	—19	135	66	9		18000	7100	6	2600		26E6G
25L6 25L6GT	BEAM PWR AMP	HTR	25	.3	7S-OW7 7S-OGT7	8FA 9DB				POWER AMP CLASS A	110 200	—7.5 —8.0	110 110	49 50	4 1.5		10000 35000	8200 8250	2.1 4.3	2000 3000		25L6 25L6GT
25N6G	DUO-TRIODE	HTR	25	0.3	7W-OM7	14BA	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP	180 180	—20 +		5.8 4.6		35	15200	2300	3.8	4000		25N6G
25U4GT	DIODE	HTR	25	.3	4CG-OGT5	9DB				DAMPER	MAX PEAK INVERSE = 3850 V; MAX Io = 138ma DC											25U4GT
25W4GT	DIODE	HTR	25	.3	4CG-OGT6	9DB				DAMPER	MAX PEAK INVERSE = 1250 V; MAX Io = 125ma DC											25W4GT
25W6GT	BM PENT	HTR	25	.3	7S-OGT7	9DB				VERT. AMP	MAX PEAK POS. PLATE = 1200 V; MAX PEAK Ik = 140ma											25W6GT
25X6GT	TWIN DIODE	HTR	25	0.15	7Q-OGT7	9DB				H W RECT V DOUBLER	250 125	RMS MAX RMS MAX		60 DC MAX 60 DC MAX			TUBE DROP 25v AT 120ma DC					25X6GT
25Y4GT	DIODE	HTR	25	0.15	5AF-OGT7	9DB				H W RECT	125	RMS MAX		75 DC MAX			TUBE DROP 18v AT 125ma DC					25Y4GT
25Y5	TWIN DIODE	HTR	25	.3	6E-SS6	12BA				H W RECT V DOUBLER	250 117	RMS MAX RMS MAX		85 DC MAX 85 DC MAX			(EXPORT TYPE)					25Y5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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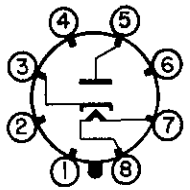
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
25Z4GT	DIODE	HTR	25	0.3	5AA-OGT7	9DB				H W RECT	125 RMS MAX			125 DC MAX			TUBE DROP 12v AT 125ma DC					25Z4GT
25Z5 25Z6 25Z6GT	TWIN DIODE	HTR	25	.3	6E-SS6 7Q-OW7 7Q-OGT7	12BA 8FA 9DB				H W RECT V DOUBLER	235 RMS MAX 117 RMS MAX			75 DC MAX 75 DC MAX			TUBE DROP 22v AT 150ma DC					25Z5 25Z6 25Z6GT
26	TRIODE	FIL	1.5	1.05	4D-SM4	14BA	8.1	3.5	2.2	AMP CL A	180	—14.5		6.2		8.3	7300	1140				26
26A6	PENTODE	HTR	26.5	0.07	7BK-MB7	5AC	.0035	6.0	5.0	VOLTAGE AMP	250 26.5	Rk 125 0	100 26.5	10.5 1.7	4.0 0.7		1 MEG 0.25MEG	4000 2000			—25 —8	26A6
26A7GT	DBL BEAM PENTODE	HTR	26.5	0.6	8BU-OGT8	9FB	1.2	16	13	POWER AMP	26.5	—4.5	26.5	20.5	5.5		2500	5500	0.2	1500		26A7GT
26BK6	DBLE DI TRIODE	HTR	25	.07	7BT-MB7	5AD				DET-AMP	100 250	—1 —2		.5 1.2		100 100		1250 1600				26BK6
26C6	DBLE-DI TRI	HTR	26.5	0.07	7BT-MB7	5AC	2	1.8	1.4	DET-AMP	250 26.5	—9 0		9.5 1.1		16 17		1900 1100				26C6
26CG6	PENTODE	HTR	26.5	.07	7BK-MB7	5AC	.008	5	5	AMP CL A	250	—8	150	9	2.3		.72MEG	2000				26CG6
26D6	PENTA-GRID	HTR	26.5	0.07	7CH-MB7	5AC	0.3	7.5	14	CONVERTER	250 26.5	—1.5 —0.5	100 26.5	3.0 0.45	7.8 1.6		1 MEG	475C 270C			—30 —6	26D6
26Z5	DBLE DI	HTR	26.5	.2	9U-MB9	5BB				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX Io = 120ma DC											26Z5
27 27S	TRIODE	HTR	2.5	1.75	5A-SS5 5A-SS5	12BA	3.3	3.5	3.0	AMPLIFIER CLASS A	250 135	—21 —9		5.2 4.5		9 9	9250 9000	975 1000				27 27S
28D7	TW PENT	HTR	28	0.40	8BS-L8	9AD				PR AMP CL A	28	—3.5	28	12.5	1.0		3000	3000	.1	4000		28D7
28Z5	TWIN DI	HTR	28	0.24	6BJ-L8	9AD				FULL WAVE RECTIFIER	325 RMS MAX COND IN 100 DC MAX 450 RMS MAX CHOKE IN 100 DC MAX			TUBE DROP 40v AT 100ma DC								28Z5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES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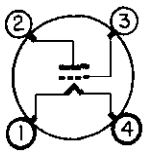
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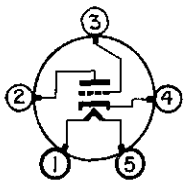
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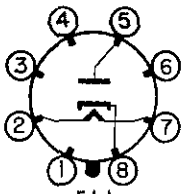
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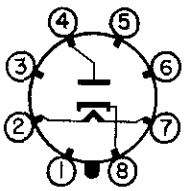
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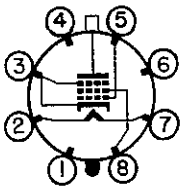
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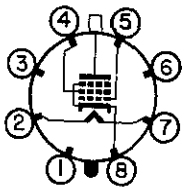
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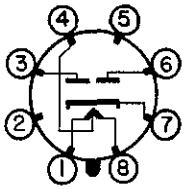
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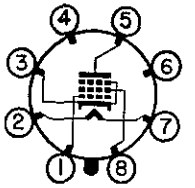
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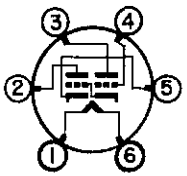
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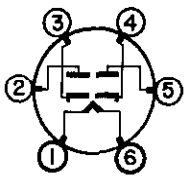
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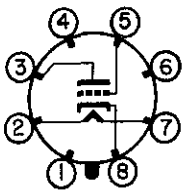
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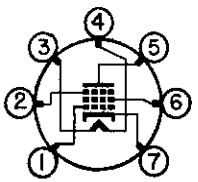
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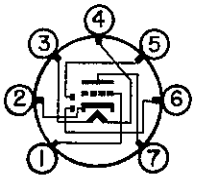
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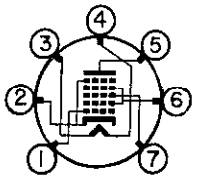
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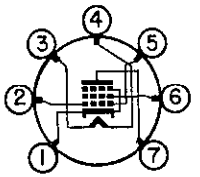
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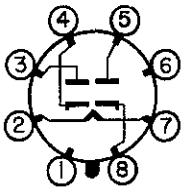
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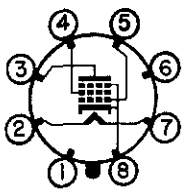
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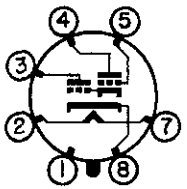
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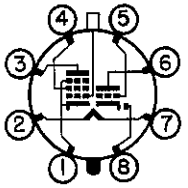
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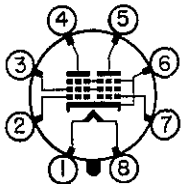
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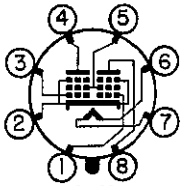
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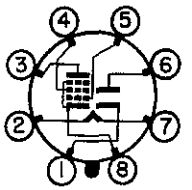
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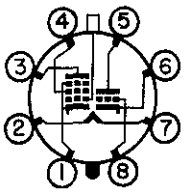
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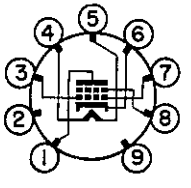
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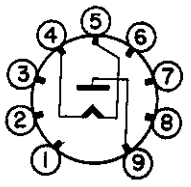
9U

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TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
30	TRIODE	FIL	2.0	.06	4D-SS4	12BA	6.0	3.7	2.1	AMP CL A BIAS DET	180 180	—13.5 —18		3.1 0.2 WITH NO SIGNAL		9.3	10300	900	(SEE 1H4G ALSO)			30
31	TRIODE	FIL	2.0	.13	4D-SS4	12BA	5.7	3.5	2.7	AMPLIFIER CLASS A	180 135	—30 —22.5		12.3 8		3.8 3.8	3600 4100	1050 925	3.75 .185	5700 7000		31
31BX7GT	TWIN TRIODE	HTR	31.5	.3	8BD-OS8	9DB	4.2	4.4	1.1	VERT. AMP	MAX PEAK POS. PLATE PULSE = 2000V MAX PLATE DISS. = 10 WATTS; PEAK Ik = 180ma											31BX7GT
32	TETRODE	FIL	2.0	.06	4K-SM4	14CA	.015*	5.3	10.5	AMPLIFIER CLASS A	180 135	—3 —3	67.5 67.5	1.7 1.7	0.4 0.4	780 610	1.2MEG .95MEG	650 640				32
32L7GT	DIODE BM PWR	HTR	32.5	.3	8Z-OGT8	9DB				H W RECT POWER AMP CLASS A	125 RMS MAX 110 90	—7.5 —7	110 90	60 DC MAX 40 27	3 2		15000 17000	6000 4800	1.5 1.0	2500 2600		32L7GT
33	PENTODE	FIL	2.0	.26	5K-SM5	14BA				POWER AMP CLASS A	180 135	—18 —13.5	180 135	22 14.5	5 3	90 70	55000 50000	1700 1450	1.4 0.7	6000 7000		33
34	PENTODE	FIL	2.0	.06	4M-SM4	14CA	.015*	6.0	11.5	AMPLIFIER CLASS A	180 67.5	—3 —3	67.5 67.5	2.8 2.7	1.0 1.1	620 224	1 MEG 0.4MEG	620 560			—22.5 —22.5	34
35/51 35S/51S	TETRODE	HTR	2.5	1.75	5E-SM5 5E-SM5	14CA	.007*	5.3	10.5	AMPLIFIER CLASS A	250 180	—3 —3	90 90	6.5 6.3	2.5 2.5	420 305	0.4MEG 0.3MEG	1050 1020			—40.0 —40.0	35/51 35S/51S
35A5	BM PWR	HTR	32	.15	6AA-L8	9AD				POWER AMP CLASS A	110 200	—7.5 —8.0	110 110	40 41	3.0 2.0		14000 40000	5800 5900	1.5 3.3	2500 4500		35A5
35B5 35C5	BEAM PENTODE	HTR	35	0.15	7BZ-MB7 7CV-MB7	5AD	0.4	11	6.5	POWER AMP	110	—7.5	110	41	7			5800	1.5	2500		35B5 35C5
35CD6GA	BM PENT	HTR	35.0	0.45	5BT-OM6	16CA	1.0	2.6	10	HORIZ AMP	430	Rk 270	165	112	14	MAX PULSE PEAK POS PLATE = 6000 v						35CD6GA
35L6GT	BM PWR	HTR	35	.15	7S-OGT7	9DB				POWER AMP CLASS A	110 200	—7.5 —8.0	110 110	40 41	3.0 2.0		13800 40000	5800 5900	1.5 3.3	2500 4500		35L6GT
35W4	DIODE	HTR	35	0.15	5BQ-MB7	5AD				H W RECTIFIER	MAX PEAK INVERSE = 330 volts, MAX Io = 90 madc											35W4
35Y4	DIODE	HTR	35	0.15	5AL-L8	9AD				H W RECT LAMP TAP	235 RMS MAX 100 DC MAX or 60 DC MAX WITH 6.3v — 150ma PANEL LAMP TUBE DROP 18v AT 200ma DC											35Y4
35Z3	DIODE	HTR	32	.15	4Z-L8	9AD				H W RECT	235 RMS MAX			100 DC MAX			TUBE DROP 20v AT 200ma DC					35Z3
35Z4GT	DIODE	HTR	35	.15	5AA-OGT6	9DB				H W RECT	235 RMS MAX			100 DC MAX			TUBE DROP 18v AT 200ma DC					35Z4GT
35Z5GT	DIODE	HTR TAP	35 7.5	.15 .15	6AD-OGT6	9DB				H W RECT LAMP TAP	235 RMS MAX			100 DC MAX OR 60 DC MAX WITH 6.3v — 150ma PANEL LAMP TUBE DROP 18v AT 200ma DC								35Z5GT
35Z6G	TWIN DIODE	HTR	35	.3	7Q-OM7	14BA				H W RECT V DOUBLER	235 RMS MAX 117 RMS MAX			110 DC MAX 110 DC MAX			TUBE DROP 20v AT 220ma DC					35Z6G
36	TETRODE	HTR	6.3	.3	5E-SS5	12DA	.007*	3.7	9.2	AMP CL A BIAS DET	250 250	—3 —8	90 90	3.2 0.1 WITH NO SIGNAL	1.7	595	.55MEG	1080				36
37	TRIODE	HTR	6.3	.3	5A-SS5	12BA	2.0	3.5	2.2	AMP CL A BIAS DET	250 250	—18 —28		7.5 .2 WITH NO SIGNAL		9.2	8400	1100				37
38	PENTODE	HTR	6.3	.3	5F-SS5	12DA	.3	3.5	7.5	POWER AMP CLASS A	250 135	—25 —13.5	250 135	22 9	3.8 1.5	120 120	.1 MEG .13MEG	1200 925	2.5 0.55	10000 13500		38
39/44	PENTODE	HTR	6.3	.3	5F-SS5	12DA	.007*	3.5	10	AMPLIFIER CLASS A	250 90	—3 —3	90 90	5.8 5.6	1.4 1.6	1050 360	1.0MEG .38MEG	1050 950			—42.5 —42.5	39, 44
40	TRIODE	FIL	5.0	.25	4D-SM4	14BA	8.8	3.4	1.5	AMP CL A	180	—3		0.2		30	15MEG	200	PL RESISTOR .25MEG			40
41	PENTODE	HTR	6.3	.4	6B-SS6	12BA				POWER AMP CLASS A	315 250	—21 —18	250 250	25.5 32	4.0 5.5		75000 68000	2100 2300	4.5 3.4	9000 7600		41

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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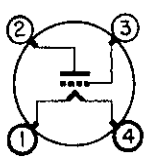
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
42	PENTODE	HTR	6.3	.7	6B-SM6	14BA				PR AMP CL A	285	—20	285	38	7		78000	2550	4.8	7000		42
											250	—16.5	250	34	6.5		80000	2500	3.2	7000		
										CL AB 2 TUBE	375	—26	250	34	5				18.5	10000		
										PUSH-PULL	315	—24	285	62	12	(SEE TYPE 2A5 ALSO)			11	10000		
43	PENTODE	HTR	25	.3	6B-SM6	14BA				AMPLIFIER CLASS A	160	—18	120	33	6.5		42000	2375	2.2	5000		43
											135	—20	135	37	8		35000	2450	2.0	4000		
											95	—15	95	20	4		45000	2000	0.9	4500		
45	TRIODE	FIL	2.5	1.5	4D-SM4	14BA	7	4	3	POWER AMP CLASS A	275	—56		36		3.5	1700	2050	2	4600		45
							PUSH-PULL				180	—31.5		31		3.5	1650	2125	.825	2700		
										CL AB 2 TUBE	275	—68		28					18	3200		
45Z3	DIODE	HTR	45	0.075	5AM-MB7	5AC				H W RECT	117 RMS MAX			65 DC MAX			TUBE DROP 23v AT 130ma DC					45Z3
45Z5GT	DIODE	HTR	45	.15	6AD-OGT6	9DB				H W RECT LAMP TAP	235 RMS MAX			100 DC MAX OR 60 DC MAX WITH 6.3v — 150ma PANEL LAMP TUBE DROP 16v AT 200ma DC								45Z5GT
46	DUAL GRID TRIODE	FIL	2.5	1.75	5C-SM5	16AA	G2 TIED TO P G1 TIED TO G2			PR AMP CL A	250	—33		22		5.6	2380	2350	1.25	6400		46
										PR AMP CL B	400	0		12 NO SIGNAL					20	5800		
										2 TUBES	300	0		8 NO SIGNAL					16	5200		
47	PENTODE	FIL	2.5	1.75	5B-SM5	16AA				PR AMP CL A	250	—16.5	250	31	6	150	60000	2500	2.7	7000		47
48	TETRODE	HTR	30	.4	6A-SM6	16AA				PR AMP CL A	125	—20	100	56	9.5			3900	2.5	1500		48
49	DUAL GRID TRIODE	FIL	2.0	.12	5C-SM5	14BA	G2 TIED TO P G1 TIED TO G2			PR AMP CL A	135	—20		6		4.7	4175	1125	.17	11000		49
										PR AMP CL B	180	0		4 NO SIGNAL					3.5	12000		
										2 TUBES	135	0		2.6 NO SIGNAL					2.3	8000		
50	TRIODE	FIL	7.5	1.25	4D-SM4B	19AA				POWER AMP CLASS A	450	—84		55		3.8	1800	2100	4.6	4350		50
											350	—63		45		3.8	1900	2000	2.4	4100		
50A5	PENTODE	HTR	50	0.15	6AA-L8	9AD				PR AMP CL A	200	—8	110	50	1.5		35000	8250	4.7	3000		50A5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



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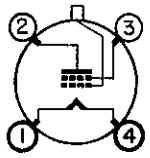

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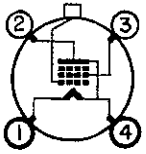

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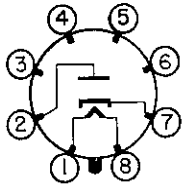

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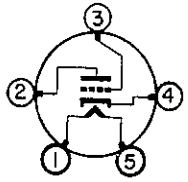

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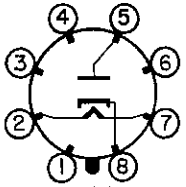

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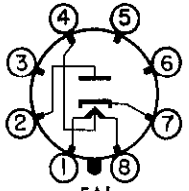

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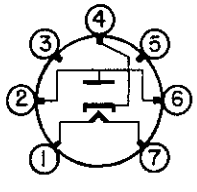

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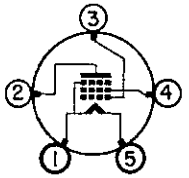

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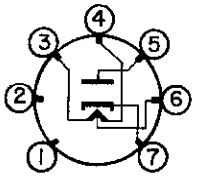

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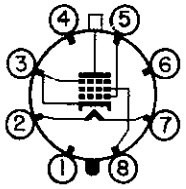

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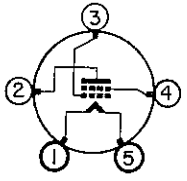

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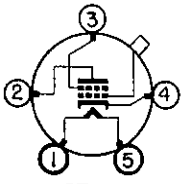

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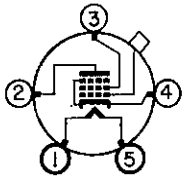

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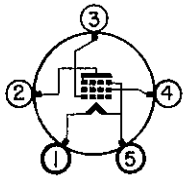

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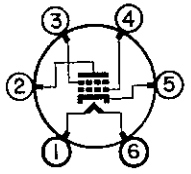

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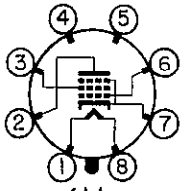

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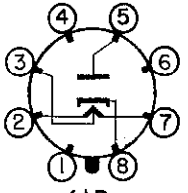

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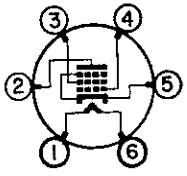

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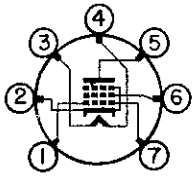

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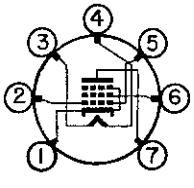

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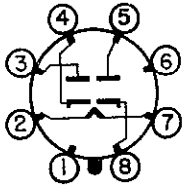

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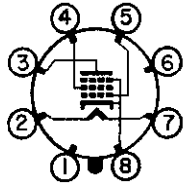

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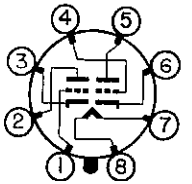

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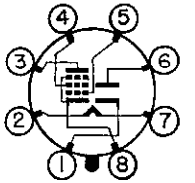

8Z

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TYPE	DESIGN	CATHODE HTR OR FIL TYPE	VOLTS	AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	IN mmfds	OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
50AX6G	DBLE DI	HTR	50	.3	7Q-OM7	14BA				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX Io = 125ma DC											50AX6G
50B5 50C5	BEAM PENTODE	HTR	50	0.15	7BZ-MB7 7CV-MB7	5AD	0.5	13	6.5	POWER AMP	110	—7.5	110	50	8.5		14000	7500	1.9	2500		50B5 50C5
50BK5	BM PENT	HTR	50.0	0.15	9BQ-MB9	5BC	0.6	13	5.0	POWER AMP	250	—5.0	250	35	3.5		0.1MEG	8500	3.5	6500		50BK5
50C6G	BM PWR	HTR	50	.15	7S-OM7	14BA				POWER AMP	200	—14	135	61	2.2		18300	7100	6.0	2600		50C6G
										CLASS A	135	—13.5	135	58	3.5		9300	7000	3.6	2000		
50C6GA	BM PENT	HTR	50.0	0.15	7S-OM7	12GD				CL A AMP	200	—14	135	66	9		18300	7100	6	2000		50C6GA
50CD6G	BM PENT	HTR	50	.3	5BT-OM6	16CA	1	2.6	10	HORIZ AMP	MAX PEAK POS. PLATE PULSE = 6000 V MAX PLATE DISS. = 15 WATTS; MAX Ib = 170ma DC											50CD6G
50L6GT	BM PWR	HTR	50	.15	7S-OGT7	9CB				POWER AMP	110	—7.5	110	49	4		10000	8200	2.1	2000		50L6GT
										CLASS A	200	—8.0	110	50	1.5		35000	8250	4.3	3000		
50X6 50Y6GT	TWIN DIODE	HTR	50	.15	7AJ-L8 7Q-OM7	9AD 9DB				H W RECT V DOUBLER	235 RMS MAX 117 RMS MAX			75 DC MAX 75 DC MAX			TUBE DROP 22v AT 150ma DC					50X6 50Y6GT
50Y7GT	DOUBLE DIODE	HTR	50	0.15	8AN-OGT8	9DB				VOLT. DOUBLER MAX RMS PLATE VOLTAGE = 117v PER PLATE, MAX Io = 75ma PER PLATE												50Y7GT
50Z6G	DOUBLE DIODE	HTR	50	0.3	7Q-OM7	14BA				VOLT. DOUBLER MAX RMS PLATE VOLTAGE = 125v PER PLATE, MAX Io = 150ma												50Z6G
50Z7G	TWIN DIODE	HTR	50	.15	8AN-OS7	12BA				H W RECT V DOUBLER LAMP TAP	117 RMS MAX 117 RMS MAX 2.5v — 150ma PANEL LAMP			65 DC MAX 65 DC MAX			TUBE DROP 21v AT 130ma DC					50Z7G
52	2 GRID TRIODE	FIL	6.3	.3	5C-SM5	14BA	G2 TIED TO P G1 TIED TO G2			PR AMP CL A CL B 2 TUBE	110 180	0 0		43 3 NO SIGNAL		5.2	1750	3000	1.5 5	2000 10000		52
53	TWIN TRIODE	HTR	2.5	2.0	7B-SM7	14BA				POWER AMP CL B 2 SECT	300	0		35 MAX SIG PL CUR — 70ma (SEE TYPE 6A6 ALSO)					10	8000		53
55 55S	DUO-DI TRIODE	HTR	2.5	1.0	6G-SS6 6G-SS6	12DA	1.7	2.0	3.5	AMPLIFIER CLASS A	250 135	—20 —10.5		8 3.7		8.3 8.3	7500 11000	1100 750	.3 .075	20000 25000		55 55S
56	TRIODE	HTR	2.5	1.0	5A-SS5	12BA	3.2	3.2	2.2	AMPLIFIER E	250	—13.5		5		13.8	9500	1450				56
56S			2.5	1.0	5A-SS5					CLASS A	100	—5		2.5		13.8	12000	1150				56S
56AS			6.3	.3	5A-SS5					BIAS DET	250	—20		0.2 WITH NO SIGNAL								56AS
57	PENTODE	HTR	2.5	1.0	6F-SS6	12DB	.007*	5.0	6.5	AMPLIFIER	250	—3	100	2	0.5	1500	1.5MEG	1224			—7	57
57S			2.5	1.0	6F-SS6					CLASS A	100	—3	100	2	0.5	1185	1.0MEG	1185			—7	57S
57AS			6.3	.4	6F-SS6																	57AS
58	PENTODE	HTR	2.5	1.0	6F-SS6	12DB	.007*	.50	6.5	AMPLIFIER	250	—3	100	8.2	2	1280	.8 MEG	1600			—50	58
58S			2.5	1.0	6F-SS6					CLASS A	100	—3	100	8	2.2	375	.25MEG	1500			—50	58S
58AS			6.3	.4	6F-SS6																	58AS
59	PENTODE	HTR	2.5	2.0	7A-SM7	16AA	PENT CONN G_2, G_3 TO PL 2 TUBES G_3 TO P			PR AMP CL A	250	—18	250	35	9	100	40000	2500	3	6000		59
										TRI CONN	250	—28		26		6	2300	2600	1.25	5000		
										PR AMP CL B	400	0		26 NO SIGNAL					20	6000		
										G_1 TO G_2	300	0		20 NO SIGNAL					15	4600		
70A7GT	DI BEAM PR AMP	HTR	70	.15	8AB-OGT8	9DB				H W RECT	125 RMS MAX			70 DC MAX			TUBE DROP 14v AT 120ma DC					70A7GT
										PR AMP CL A	110	—7.5	110	40	3	80	5800		1.5	2500		
70L7GT	DIODE BM PWR	HTR	70	.15	8AA-OGT8	9DB				H W RECT	125 RMS MAX			70 DC MAX			TUBE DROP 20v AT 140ma DC					70L7GT
										PR AMP CL A	110	—7.5	110	40	3		15000	7500	1.8	2000		
71A	TRIODE	FIL	5	.25	4D-SM4B	14BA				POWER AMP	180	—40.5		20		3	1750	1700	.79	4800		71A
										CLASS A	90	—16.5		10		3	2170	1400	.125	3000		
75	DUO-DI TRIODE	HTR	6.3	.3	6G-SS6	12DA	1.7	2.0	3.5	AMPLIFIER	250	—2		0.9		100	91000	1100				75
75S					6G-SS6					CLASS A												75S

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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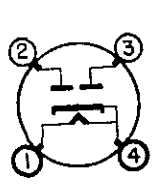
TYPE	DESIGN	CATHODE HTR OR FIL TYPE	CATHODE HTR OR FIL VOLTS	CATHODE HTR OR FIL AMPS	BASING DATA	MAX SIZE VIEW	CAPACITIES G-P mmfds	CAPACITIES IN mmfds	CAPACITIES OUT mmfds	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
76	TRIODE	HTR	6.3	.3	5A-SS5	12BA				AMPLIFIER CLASS A BIAS DET	250 100 250	—13.5 —5 —20		5 2.5 0.2 WITH NO SIGNAL		13.8 13.8	9500 12000	1450 1150				76
77	PENTODE	HTR	6.3	.3	6F-SS6	12DA	.007*	4.7	11	AMPLIFIER CLASS A	250 100	—3 —1.5	100 60	2.3 1.7	0.5 0.4		1.5MEG 0.6MEG	1250 1100			—7.5 —5.5	77
78	PENTODE	HTR	6.3	.3	6F-SS6	12DA	.007*	4.5	11	AMPLIFIER CLASS A	250 250 100	—3 —3 —1	125 100 100	10.5 7.0 9.5	2.6 1.7 2.7		.6 MEG .8 MEG .15MEG	1650 1450 1650			—52.5 —42.5 —38.5	78
79	TWIN TR	HTR	6.3	.6	6H-SS6	12DA				CL B AMP 2 SECTIONS	250 180	0 0		10.6 NO SIG 7.6 NO SIG					8 5.5	14000 7000		79
80	TWIN DI	FIL	5.0	2.0	4C-SM4	14BA				FULL WAVE RECTIFIER	350 RMS MAX COND IN 125 DC MAX TUBE DROP 60v AT 125ma DC 500 RMS MAX CHOKE IN 125 DC MAX											80
81	DIODE	FIL	7.5	1.25	4B-SM4	16AA				H W RECT	700 RMS MAX 85 DC MAX TUBE DROP 91v AT 170ma DC											81
82	TWIN DI	FIL	2.5	3.0	4C-SM4	14BA (MERCURY VAPOR)				FULL WAVE RECTIFIER	450 RMS MAX COND IN 115 DC MAX TUBE DROP 15v 550 RMS MAX CHOKE IN 115 DC MAX											82
83	TWIN DI	FIL	5.0	3.0	4C-SM4	16AA (MERCURY VAPOR)				FULL WAVE RECTIFIER	450 RMS MAX COND IN 225 DC MAX TUBE DROP 15v 550 RMS MAX CHOKE IN 225 DC MAX											83
83V	TWIN DI	HTR	5.0	2.0	4AD-SM4	14BA				FULL WAVE RECTIFIER	375 RMS MAX COND IN 175 DC MAX TUBE DROP 23v AT 175ma DC 500 RMS MAX CHOKE IN 175 DC MAX											83V
84/6Z4	TWIN DI	HTR	6.3	.5	5D-SS5	12BA				FULL WAVE RECTIFIER	325 RMS MAX COND IN 60 DC MAX TUBE DROP 20v AT 60ma DC 450 RMS MAX CHOKE IN 60 DC MAX											84/6Z4
85	DUO-DI TRIODE	HTR	6.3	.3	6G-SS6	12DA	1.7	2.0	3.5	AMP CL A	250 180	—20 —13.5		8 6		8.3 8.3	7500 8500	1100 975	.35 .16	20000 20000		85

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



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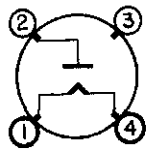

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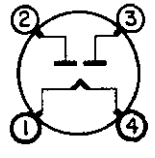

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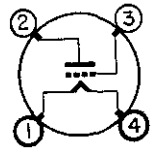

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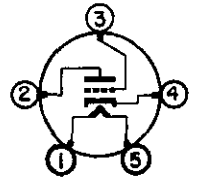

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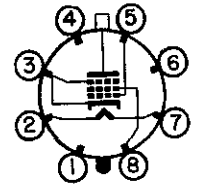

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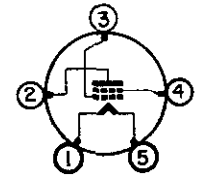

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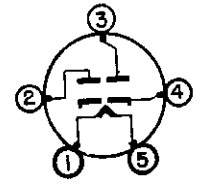

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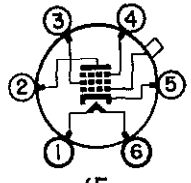

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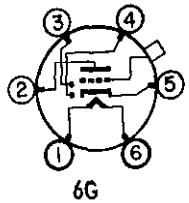

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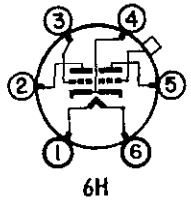

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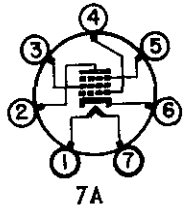

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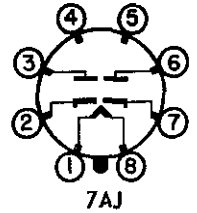

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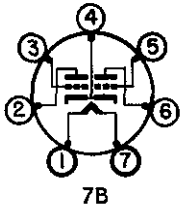

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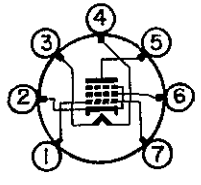

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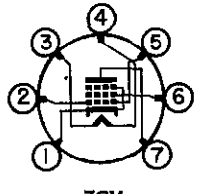

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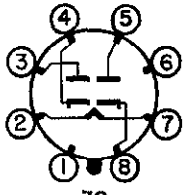

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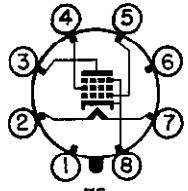

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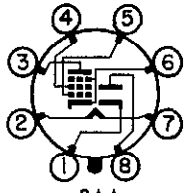

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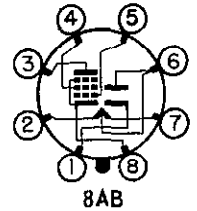

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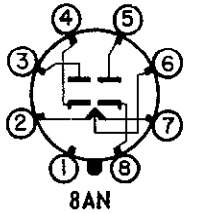

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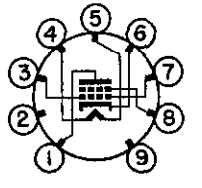
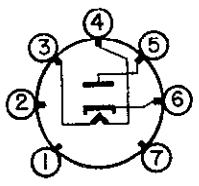
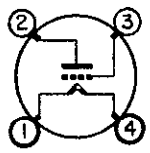


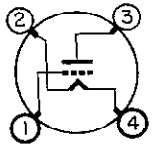
9BQ

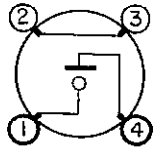
TYPE	DESIGN	CATHODE HTR OR FIL			BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	VOLTS	AMPS			G-P mmfds	IN mmfds	OUT mmfds													
85AS	DUO-DI TRIODE	HTR	6.3	0.3	6G-SS6					AMP CL A	250	—9		5.5		20		1250				85AS
89	PENTODE	HTR	6.3	.4	6F-SS6	12DA	G_3 TIED TO K G_1 TIED TO G_2			PENT PR AMP CLASS A CL B 2 TUBE	250 135 180	—25 —13.5 0	250 135	32 14 6 NO SIGNAL	5.5 2.2	125 125	70000 92500 G_3 TIED TO P	1800 1350	3.4 0.75 3.5	6750 9200 9400		89
V99 X99	TRIODE	FIL	3.3	.063	4E-SV4 4D-SS4	8AA 9FC	3.3	2.5	2.5	AMP CL A BIAS DET	90 90	—4.5 —10.5		2.5 0.2 WITH NO SIGNAL		6.6	15500	425				V99 X99
117L/ M7GT	DI BEAM PR AMP	HTR	117	.09	8AO-OGT8	9DB				H W RECT PR AMP CL A	117 RMS MAX 105	—5.2	105	75 DC MAX 43	4		TUBE DROP 16v AT 160ma DC 17000	5300	0.85	4000		117L/ M7GT
117N7GT	DI BEAM PR AMP	HTR	117	.09	8AV-OGT8	9DB				H W RECT PR AMP CL A	117 RMS MAX 100	—6	100	75 DC MAX 51	6.0		TUBE DROP 16v AT 150ma DC 16000	7000	1.2	3000		117N7GT
117P7GT	DI BEAM PWR AMP	HTR	117	0.09	8AV-OGT8	9DB				H W RECT PR AMP CL A	117 RMS MAX 105	—5.2	105	75 DC MAX 43	4		TUBE DROP 16v AT 50ma DC 17000	5300	0.85	4000		117P7GT
117Z3	DIODE	HTR	117	0.04	4CB-MB7	5AD				H W RECTIFIER	MAX PEAK INVERSE = 330 volts, MAX Io = 90 madc											117Z3
117Z4GT	DIODE	HTR	117	0.04	5AA-OGT6	9DB				H W RECT	117 RMS MAX			90 DC MAX			TUBE DROP 22.5v AT 180ma DC					117Z4GT
117Z6GT	TWIN DIODE	HTR	117	.075	7Q-OGT7	9DB				RECTIFIER V DOUBLER	235 RMS MAX 117 RMS MAX			60 DC MAX 60 DC MAX			TUBE DROP 15.5v AT 125ma DC					117Z6GT
182B/482B	TRIODE	FIL	5.0	1.25	4D-SM4	14BA				PR AMP CL A	250	—35		18		5		1500				182B/482B
183/483	TRIODE	FIL	5.0	1.25	4D-SM4	14BA				PR AMP CL A	250	—58		20		3		1500				183/483
485	TRIODE	HTR	3.0	1.25	5A-SS5	12BA				AMP CL A	180	—10		5.2		12.8		1300				485
950	PENTODE	FIL	2.0	.12	5K-SM5	14BA				PR AMP CL A	135	—16.5	135	7.0	2.0	100	.1 MEG	1000	.45	13500		950
BA	TWIN DI	COLD			4J-SM4	19BA	GAS FILLED			F W RECT	350 RMS MAX			350 DC MAX			TUBE DROP 80v					BA
BH	TWIN DI	COLD			4J-SM4	14AA	GAS FILLED			F W RECT	350 RMS MAX			125 DC MAX			TUBE DROP 90v					BH
BR	DIODE	COLD			4H-SM4	12AA	GAS FILLED			H W RECT	300 RMS MAX			50 DC MAX			TUBE DROP 60v					BR
XXD	TWIN TRIODE	HTR	12.6	.15	8AC-L8	9AC	2.3	2.2	1.6	AMP CL A 1 SEC	250 100	—10 0		9 10.8		16 17	7600 6500	2100 2600				XXD
XXL	TRIODE	HTR	6.3	.3	5AC-L8	9AC	2.0	3.4	2.6	AMP CL A	250 100	—8 0		8 10		20 25	8700 7000	2300 3600				XXL

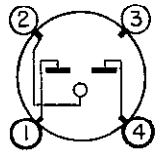
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

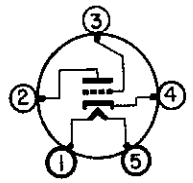


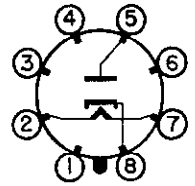


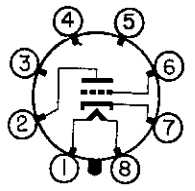


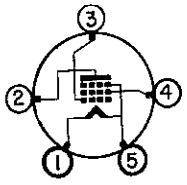


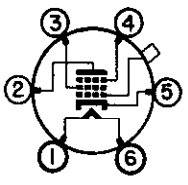


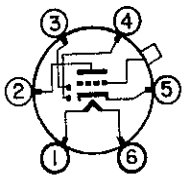


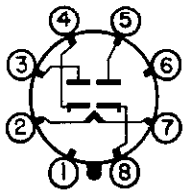


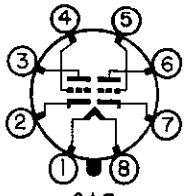


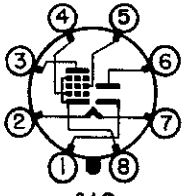


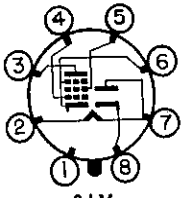












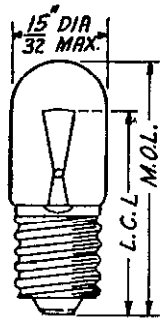
RAYTHEON

PANEL LAMPS

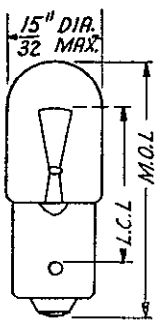
Raytheon Dependable Panel Lamps are of the highest quality and are designed especially to meet the requirements of the renewal market.

TYPE NO.	VOLTS	AMPS.	APPROX. CANDLE POWER	BULB	BASE	BEAD COLOR	LIGHT CENTER LENGTH	MAX. OVERALL LENGTH	TYPE NO.
40	6-8	0.15	0.5	T-3¼	Min. Screw	Brown	29/32"	1⅛"	40
40-A	6-8	0.15	0.5	T-3¼	Min. Bayonet	Brown	29/32"	1⅛"	40-A
41	2.5	0.5	0.5	T-3¼	Min. Screw	White	29/32"	1⅛"	41
42	3.2	0.5	0.75	T-3¼	Min. Screw	Green	29/32"	1⅛"	42
43	2.5	0.5	0.5	T-3¼	Min. Bayonet	White	29/32"	1⅛"	43
44	6-8	0.25	0.8	T-3¼	Min. Bayonet	Blue	29/32"	1⅛"	44
45	3.2	0.5	0.75	T-3¼	Min. Bayonet	Green	29/32"	1⅛"	45
46	6-8	0.25	0.8	T-3¼	Min. Screw	Blue	29/32"	1⅛"	46
47	SAME CHARACTERISTICS AS 40A, WITH WHICH IT IS INTERCHANGEABLE								47
48	2.0	0.06	0.03	T-3¼	Min. Screw	Pink	29/32"	1⅛"	48
49	2.0	0.06	0.03	T-3¼	Min. Bayonet	Pink	29/32"	1⅛"	49
49-A	2.1	0.12	0.07	T-3¼	Min. Bayonet	White	29/32"	1⅛"	49-A
50	6-8	0.2	1.0	G-3½	Min. Screw	White	29/32"	15/16"	50
51	6-8	0.2	1.0	G-3½	Min. Bayonet	White	½"	15/16"	51
55	6-8	0.4	1.5	G-4½	Min. Bayonet	White	½"	1 1/16"	55
291	2.9	0.17	—	T-3¼	Min. Bayonet	White	29/32"	1⅛"	291
292	2.9	0.17	0.3	T-3¼	Min. Screw	White	29/32"	1⅛"	292
292-A	2.9	0.17	0.3	T-3¼	Min. Bayonet	White	29/32"	1⅛"	292-A
1490	3.2	0.16	—	T-3¼	Min. Bayonet	White	29/32"	1⅛"	1490

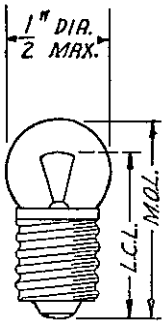
Note: The color of the bead inside the lamp bulb may be used to identify the more common Raytheon types. This information is shown in the column headed "Bead Color."



40
41
42
46
48
292



40A
43
44
45
49
49A
291
292A
1490



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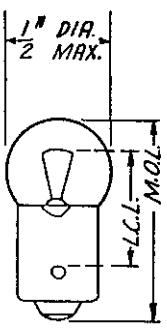

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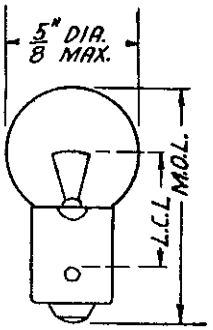

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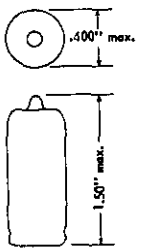

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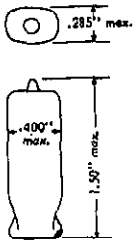

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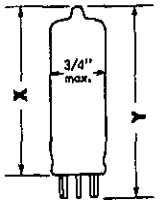
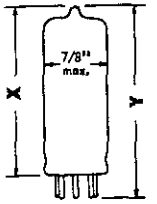


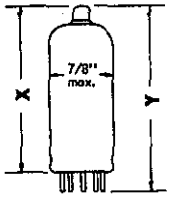
	X	Y
5AA	1½	1¾
5AB	1⅜	1⅝
5AC	1⅞	2⅛
5AD	2⅜	2⅝

5B



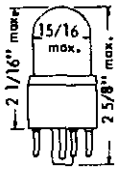
	X	Y
5BA	1½	1¾
5BB	1 5/16	2 3/16
5BC	2⅜	2⅝
5BD	2¾	3 1/16

5C

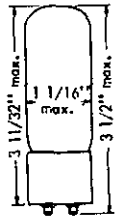


	X	Y
5CA	2 7/16	2 11/16
5CB	2 9/16	2 13/16
5CC	2¾	3 1/16
5CD	2 13/16	3 5/16

7AA



8AA



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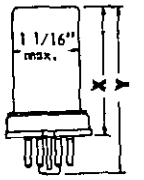
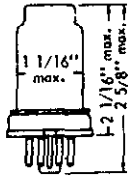


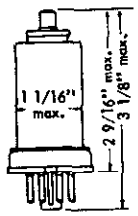
	X	Y
8BA	1 1/16	1⅝
8BB	2 1/16	2⅝

8CA

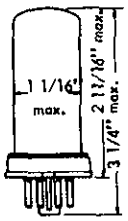


8DA

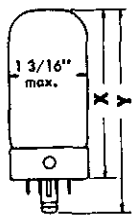
8EA



8FA

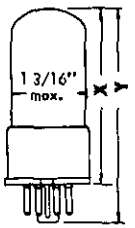


9A



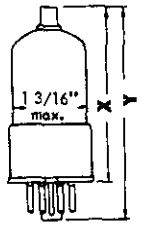
	X	Y
9AA	1½	2 1/32
9AB	1¾	2 3/32
9AC	2¼	2 5/32
9AD	2⅝	3 5/32

9B



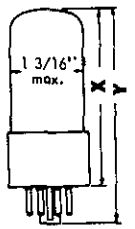
	X	Y
9BA	2 5/16	2⅞
9BB	2½	3 1/16
9BC	2¾	3 5/16
9BD	2⅞	3 7/16

9C



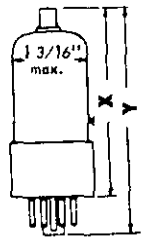
	X	Y
9CA	2¾	3 5/16
9CB	3	3 9/16

9D



	X	Y
9DA	2½	3 1/16
9DB	2⅞	3 7/16

9E



	X	Y
9EA	2¾	3 15/16
9EB	2 15/16	3½
9EC	3⅛	3 11/16
9ED	3¾	4 5/16

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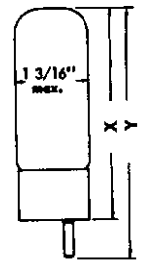
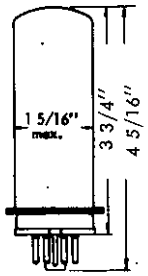
9F

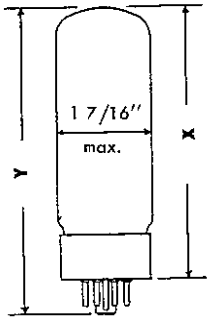


	X	Y
9FA	1¾	2⁵⁄₁₆
9FB	3¼	3¹³⁄₁₆
9FC	3⁷⁄₁₆	4
9FD	3⁹⁄₁₆	4¹¹⁄₁₆

10AA

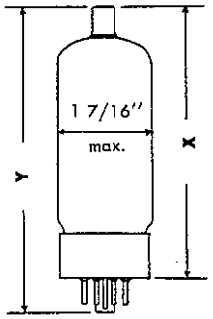


11A



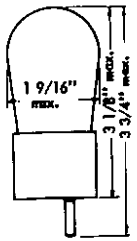
	X	Y
11AA	2¹⁵⁄₁₆	3½
11AB	3⁵⁄₁₆	3⅞
11AD	4¹⁄₁₆	4⅝

11B

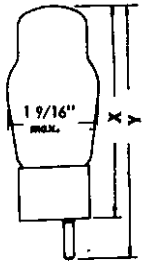


	X	Y
11BB	3½	4¼
11BC	3⅞	4⅝
11BD	4¼	5

12AA



12B



	X	Y
12BA	3⁹⁄₁₆	4³⁄₁₆
12BB	3¹⁵⁄₁₆	4⅝

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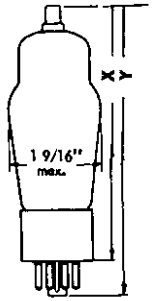
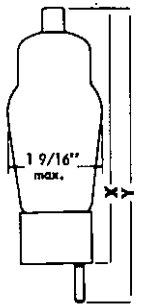
12C



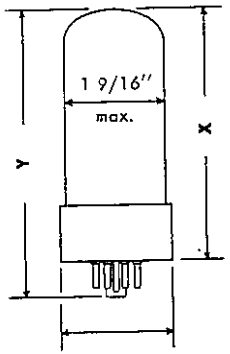
	X	Y
12CA	3²⁹⁄₃₂	4¹⁵⁄₃₂
12CB	4⁵⁄₁₆	4⅞

12D



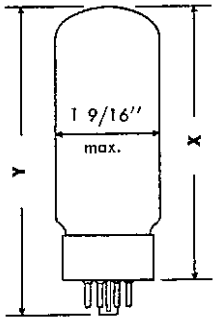
	X	Y
12DA	3²⁹⁄₃₂	4¹⁷⁄₃₂
12DB	4⁵⁄₁₆	4¹⁵⁄₁₆

12E



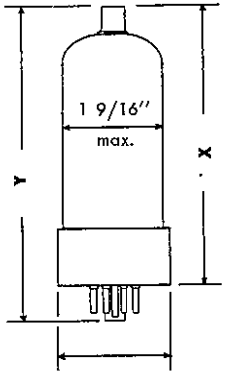
	X	Y
12ED	4¹⁄₁₆	4⅝
12EE	4⁷⁄₁₆	5

12G



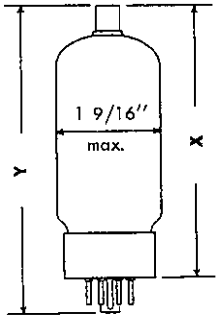
	X	Y
12GB	3⁵⁄₁₆	3⅞
12GD	4¹⁄₁₆	4⅝
12GE	4⁷⁄₁₆	5

12H



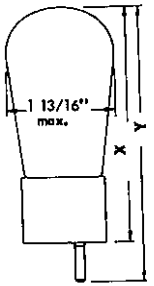
	X	Y
12HD	4¼	5
12HE	4⅝	5⅜

12J



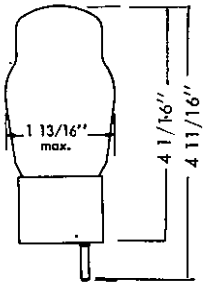
	X	Y
12JC	3½	4¼
12JD	3⅞	4⅝
12JE	4¼	5

14A

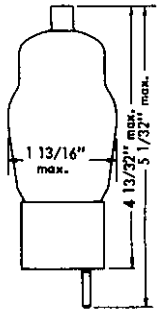


	X	Y
14AA	3¾	4⅜
14AB	4¹⁄₁₆	4¹¹⁄₁₆

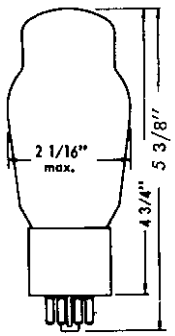
14BA



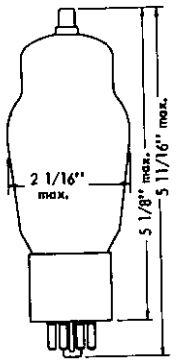
14CA



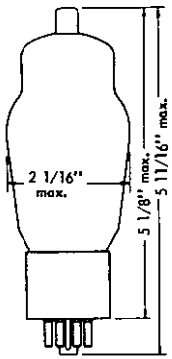
16AA



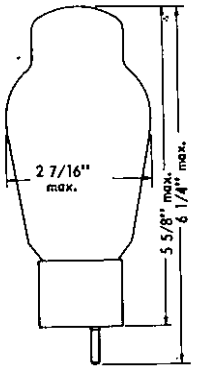
16BA



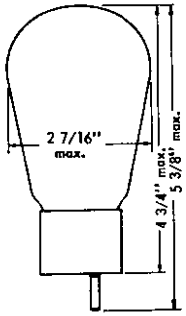
16CA



19AA



19BA



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