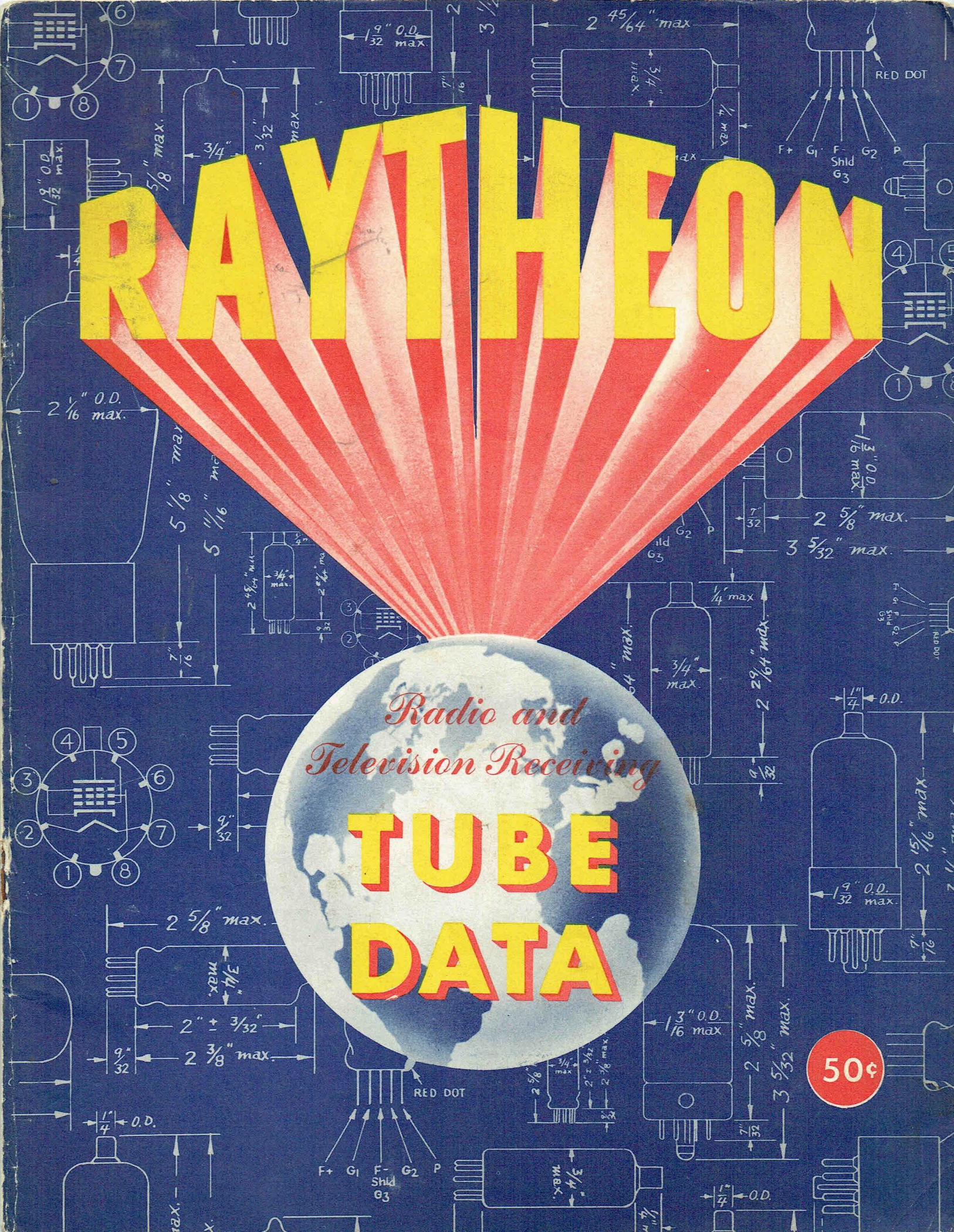


# RAYTHEON

*Radio and  
Television Receiving*

# TUBE DATA

50¢





*Excellence in Electronics*

# **RADIO AND TELEVISION TUBE DATA**

No patent liability is assumed with respect to the use of circuits and tube information contained in this booklet

First Printing  
February, 1954

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***Receiving Tube Division***

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NOTE

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



The name "Raytheon" has become a symbol of excellence in electronics. Raytheon radio and television tubes have played a major part in the building of this world wide quality reputation. This is based upon a record of performance and dependability that goes back to the very beginnings of the industry and that has been the result of years of concentrated tube development and research work.

The Raytheon position as foremost in the field of electronic engineering and advancement is in itself a guarantee that Raytheon tubes meet the highest standards of quality and precision. Raytheon technical superiority and production craftsmanship have become traditional.

As a logical outcome of this development Raytheon Tubes have become standard equipment in radio and television receivers that enjoy nation-wide recognition and acceptance on the basis of performance and value. Raytheon Tubes are likewise preferred and recommended by leading radio and television service-dealers.

Technical experts in both original equipment and service organizations are keenly aware of the contributions that Raytheon Quality Tubes have made and continue to make in terms of satisfaction on the part of the ultimate user and enhancement of their own reputation for quality products and service.

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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)

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 trans-conductance. (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  $G_2$  resistor.

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

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

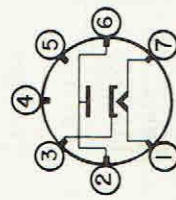
Values of Grid Volts for filament type tubes are measured from the negative filament terminal.

Values of Cutoff Bias are approximate.

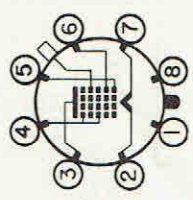


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE VOLTS	SCR VOLTS	SCR PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	VOLTS			AMP	G-P												
00A	TRIODE	FIL	5.0	.25	4D-SM4B	14B	8.5	3.2	2.0	DETECTOR	45	0	1.5	20	30000	666			00A
01A	TRIODE	FIL	5.0	.25	4D-SM4B	14D	8.1	3.1	2.2	AMP CL A	135	-9	3	8	10000	800			01A
0Y4	GAS DIODE	COLD			4BU-OW5	8E				HALF-WAVE RECT									0Y4
0Y4C	TWIN DIODE	COLD			4BU-OW5	7A													0Y4C
0Z4	TWIN DIODE	COLD			4R-OW6	8E				FULL WAVE RECTIFIER									0Z4
0Z4C	TWIN DIODE	COLD			4R-OT5	7A													0Z4C
0Z4A/1003	TWIN DIODE	COLD			4R-OW6	8D													0Z4A/1003
1A3	DIODE	HTR	1.4	0.15	5AP-MB7	5B				DETECTOR	117	MAX	0.5	MAX					1A3
1A4P	PENTODE	FIL	2.0	.06	4M-SS4	12H	.007*	5.0*	12*	AMP CL A	180	-3	67.5	2.3	0.8				1A4P
1A4-T	TETRODE	FIL	2.0	.06	4K-SS4	12H	.012*	4.6	11	AMP CL A	180	-3	67.5	2.3	0.7	720	.96MEG	750	1A4-T
1A5GT	PENTODE	FIL	1.4	.05	6X-OGT7	9H				POWER AMP CLASS A	90	-4.5	90	4.0	0.8		25000		1A5GT
1A6	HEPTODE	FIL	2.0	.06	6L-SS6	12H	.25*	10.5	9.0	OSC SECT MIXER	135S	.05MEG	2.3	2.3	2.4				1A6
1A7C	HEPTODE	FIL	1.4	.05	7Z-OS8	9P	.30*	6.5*	11*	OSC SECT MIXER	90	2	MEG	1.2	0.6				1A7C
1A7CT	HEPTODE	FIL	1.4	.05	7Z-OW8	9F					90	0	45	0.55	0.6				1A7CT
1AB5	PENTODE	FIL	1.2	0.13	5BF-18	9AA	0.025	2.8	4.2	VOLTAGE AMP	150	-1.5	150	6.8	2.0				1AB5
1AB6	HEPTODE	FIL	1.4	.025	7DH-MB7	5B	.36	7.6	8.4	MIXER SECT. OSC. SECT.	85	0	64.5	0.65	0.17				1AB6
1AC6	HEPTODE	FIL	1.4	.05	7DH-MB7	5B	.36	7.5	8.4	MIXER SECT. OSC. SECT.	35	.027MEG	1.5						1AC6
1AE4	PENTODE	FIL	1.25	.1	6AR-MB7	5B	.008*	3.6*	4.4*	RF AMPLIFIER	90	0	90	3.5	1.2				1AE4
1AF4	PENTODE	FIL	1.4	.025	6AR-MB7	5B	.008*	3.8*	7.6*	RF AMPLIFIER	90	0	90	1.65	0.5				1AF4
1AF5	DI-PENT	FIL	1.4	.025	7DJ-MB7	5B	.2*	2.5*	4.3*	DET-AMPLIFIER	90	0	90	1.1	0.4				1AF5
1AG4	PENTODE	FIL	1.25	.04	1D	3E				POWER AMP.	41.4	-3.6	41.4	2.4	0.6		12000		1AG4
1AH4	PENTODE	FIL	1.25	.04	1A	3E	.01	3.5	4.5	RF AMPLIFIER	45	.5	MEG	45	0.2				1AH4

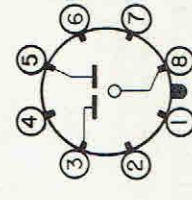
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



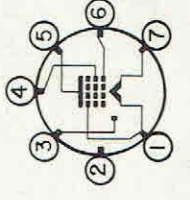
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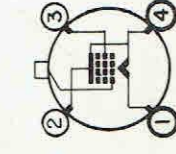
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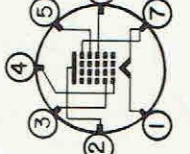
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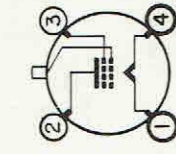
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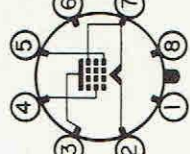
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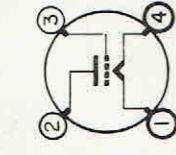
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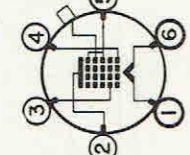
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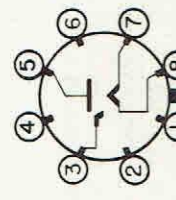
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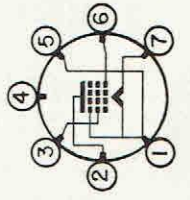
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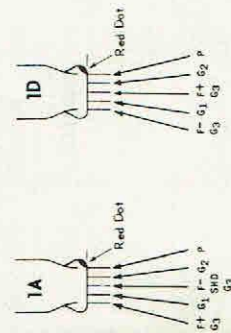
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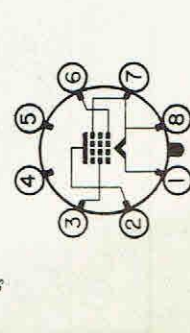
4BU



6AR



1A



5BF



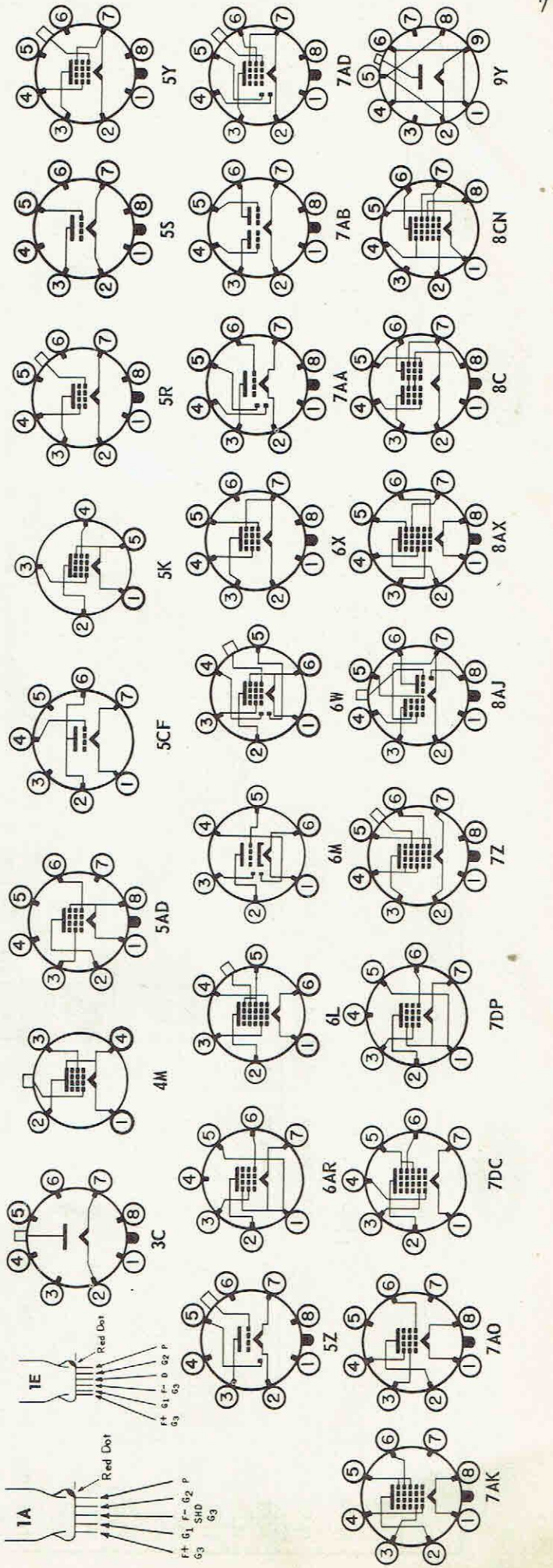
TYPE	DESIGN	CATHODE HTR OR FIL.		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE	
		TYPE	VOLTS			AMP	G-P mmfd														IN mmfd
1AJ4	PENTODE	FIL	1.4	.025	7DP-MB7	5B	.01	3.3	7.8	RF AMPLIFIER	90	0	90	1.65	0.55					1AJ4	
1AJ5	DI-PENT	FIL	1.25	.04	1E	3E	.1	1.7	2.4	DET-AMPLIFIER	45	5 MEG	45	1.0	0.3						1AJ5
1AK4	PENTODE	FIL	1.25	.02	1A	3E	.01	3.5	4.5	RF AMPLIFIER	45	5 MEG	45	0.75	0.2					-3	1AK4
1AK5	DI-PENT	FIL	1.25	.02	1E	3E	.01	2.0	2.7	DET-AMPLIFIER	45	5 MEG	45	0.5	0.2						1AK5
1AX2	DIODE	FIL	1.4	.65	9Y-MB9	5K				HW RECTIFIER	PEAK INVERSE = 25000 V; I <sub>o</sub> = 300μa max.										
1B3GT/8016	DIODE	FIL	1.25	0.2	3C-OGT6	9U			1.5	HALF-WAVE RECT	MAX AVE I <sub>o</sub> = 2 macc										
1B4/951	PENTODE	FIL	2.0	.06	4M-SS4	12H	.007*	5.0	11	AMP CL A	180 90	-3 -3	67.5 67.5	1.7 1.6	0.6 0.7					-8 -8	1B4/951
1B5/25S	DUO-DI TRIODE	FIL	2.0	.06	6M-SS6	12B	3.6	2.0	3.0	AMPLIFIER CLASS A	135	-3		0.8	20	35000					1B5/25S
1B7G 1B7GT	HEPTODE	FIL	1.4	.1	7Z-OS8 7Z-OW8	9P 9F	.34*	7.0*	7.5*	OSC SECT MIXER	90 90	.2 MEG 0	45	1.6 1.5	1.3	.35MEG	350C			-14.5	1B7G 1B7GT
1B8GT	DI-TRI PENTODE	FIL	1.4	0.1	8AJ-OS8	9F				TRI CL A PENT CL A	90 90	0 -6.0	90	0.15 6.3	1.4	0.24MEG	275 1150	.210	14000		1B8GT
1C3	TRIODE	FIL	1.4	.05	5CF-MB7	5B	1.8*	0.9*	4.2*	AMP CL A	90	-3		1.4	14.5						1C3
1C5GT	PENTODE	FIL	1.4	.1	6X-OGT7	9H				POWER AMP CLASS A	90 83	-7.5 -7	90 83	7.5 7.0	1.6 1.6	.12MEG .11MEG	1550 1500	.240 .200	8000 9000		1C5GT
1C6 1C7G	HEPTODE	FIL	2.0	.12	6L-SS6 7Z-OS8	12H 12F	.3* .26*	10* 10*	10 14*	OSC SECT MIXER	180S 180	.05MEG -3	67.5	3.3 1.5	2.0	GRID #2 RES. .02 MEG .7 MEG 325C				-14	1C6 1C7G
1C8	HEPTODE	FIL	1.25	.04	8CN	3B	.25*	6.5*	4.0*	CONVERTER	30	0	30	0.32	0.75	.3 MEG	100C				1C8
1D5G-P	PENTODE	FIL	2.0	.06	5Y-OS7	12F	.007*	5.0*	11*	AMPLIFIER CLASS A	180 90	-3 -3	67.5 67.5	2.3 2.2	0.8 0.9	1 MEG .6 MEG	750 720			-15 -15	1D5G-P
1D5GT	TETRODE	FIL	2.0	.06	5R-OS7	12F	.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	12F	.30*	10*	14*	OSC SECT MIXER	180S 180	.05MEG -3	67.5	2.3 1.3	2.4	GRID #2 RES. .02 MEG .5 MEG 300C				-22.5	1D7G
1D8GT	DI-TRI PENTODE	FIL	1.4	.1	8AJ-OGT8	9J				TRI CL A PENT CL A	90 90	0 -9	90	1.1 5.0	1.0	43500 .2 MEG	575 925	.200	12000		1D8GT
1E4G	TRIODE	FIL	1.4	.05	5S-OS7	9N	2.4	2.4	6.0	AMPLIFIER CLASS A	90 90	-3 0		1.4 4.5		19000 11200	760 1300				1E4G
1E5G-P	PENTODE	FIL	2.0	.06	5Y-OS7	12F	.007*	5.5*	12*	AMPLIFIER CLASS A	180 90	-3 -3	67.5 67.5	1.7 1.6	0.6 0.7	1.5MEG 1 MEG	650 600			-8 -8	1E5G-P
1E7G	TWIN PENTODE	FIL	2.0	.24	8C-OS8	12E				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 .575	.290 24000			1E7G
1F4 1F5G	PENTODE	FIL	2.0	.12	5K-SM5 6X-OM7	14D 14C				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 1.25	.310 20000			1F4 1F5G
1F6 1F7G-H	DUO-DI PENTODE	FIL	2.0	.06	6W-SS6 7AD-OS8	12H 12F	.007* .01*	4 3.8*	9 9.5*	AMPLIFIER CLASS A	180	-1.5	67.5	2.2	0.7	1 MEG	650			-12	1F6 1F7G-H
1G4GT	TRIODE	FIL	1.4	.05	5S-OGT7	9H				AMP CL A	90	-6		2.3	8.8	10700	825				1G4GT
1G5G	PENTODE	FIL	2.0	.12	6X-OM7	14C				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	9H				CL A 1 SECT CL B 2 SECT	90 90	0 0		1.0 2.0	30 MAX SIG PLATE CUR = 14ma	45000	.675	12000			1G6GT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE		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
		HTR OR FIL TYPE	HTR OR FIL VOLTS			AMP	G-P mmfds	IN mmfds													
IH4C	TRIODE	FIL	2.0	.06	5S-OS6	12E	5.0*	3.0*	3.0*	180 157.5	-13.5 -15		3.1 1.0		9.3	10300	900	2.1	(SEE TYPE 30 ALSO) 8000	IH4G	
IH5CT	DI-TRI	FIL	1.4	.05	SZ-OW7	9F				90	0		0.15		65	.24MEG	275			IH5CT	
IH6C	DUO-DI TRIODE	FIL	2.0	.06	7AA-OS8	12E	3.6*	2.0*	3.0*	135	-3		0.8		20	35000	575			IH6C	
IJ5C	PENTODE	FIL	2.0	.12	6X-OM7	14C				135	-16.5	135	7.0	2.0	100	.1 MEG	1000	.45	13500	IJ5C	
IJ6G	TWIN TR	FIL	2.0	.24	7AB-OS8	12E				135	0		10 NO SIG 0.2 NO SIG				2.2 1.6	10000 10000		IJ6G	
IL4	PENTODE	FIL	1.4	0.05	6AR-MB7	5B	0.008	3.6	7.5	90 90	0 0	90 67.5	4.5 2.9	2.0 1.2		0.35MEG 0.6 MEG	1025 925			IL4	
IL6	HEPTODE	FIL	1.4	.05	7DC-MB7	5B	.3	7.4	12	90	0	45	0.5	0.6		.65MEG	300C	$G_2 = 90 V$ $I_{C_3} = 1.2ma$	-3	IL6	
ILA4	PENTODE	FIL	1.4	.05	5AD-L8	9A				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	ILA4	
ILA6	HEPTODE	FIL	1.4	.05	7AK-L8	9A	.40	7.7	8.0	90	.2 MEG 0	45	1.2 0.55	0.6		.6 MEG	250C			ILA6	
ILB4	PENTODE	FIL	1.4	.05	5AD-L8	9A				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	ILB4	
ILB6	HEPTODE	FIL	1.4	0.05	8AX-L8	9A	0.20	8.0	7.0	90	0	67.5	0.40	2.2		2 MEG	100C			ILB6	
ILC5	PENTODE	FIL	1.4	0.05	7AO-L8	9A	0.007	3.2	7.0	90 45	0 0	45 45	1.15 1.10	0.20 0.25		1.5MEG 0.7MEG	775 750			ILC5	

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES







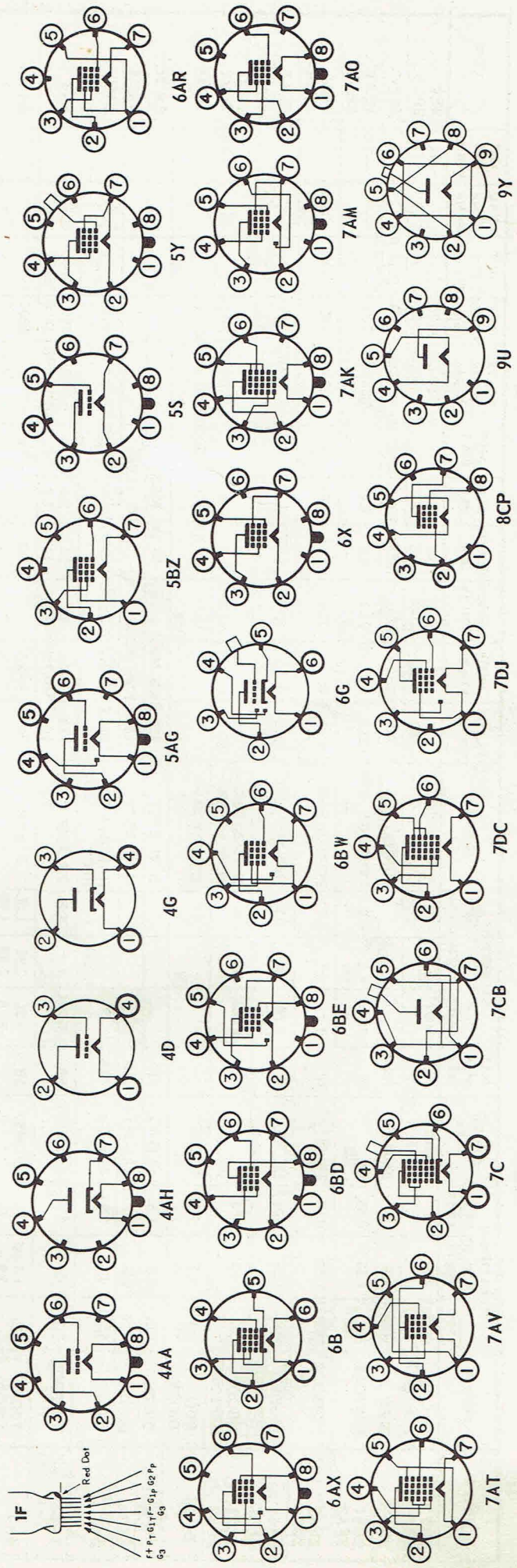
TYPE	DESIGN	CATHODE HTR OR FIL		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE	
		TYPE	VOLTS			AMPS	G-P mmfds	IN mmfds														OUT mmfds
ILC6	HEPTODE	FIL	1.4	0.05	7AK-L8	9A	0.28	9.0	5.5	MIXER SECT OSC SECT	0	35	0.75	0.70	.65MEG	275C				-3	ILC6	
ILD5	DI-PENT	FIL	1.4	0.05	6AX-L8	9A	0.20	3.2	6.0	AMP CL A	0	45	0.60	0.10	0.95MEG 0.90MEG	600 550						ILD5
ILE3	TRIODE	FIL	1.4	0.05	4AA-L8	9A	1.7	1.7	3.0	AMP CL A	0	45	1.4	14.5	19000 11200	760 1300						ILE3
ILF3	TRIODE	FIL	1.4	0.05	4AA-L8	9A	1.7	1.7	3.0	VOLTAGE AMP	0	45	1.4	14.5		760						ILF3
ILG5	PENTODE	FIL	1.4	0.05	7AO-L8	9A	0.007	3.2	7.0	VOLTAGE AMP	0	45	1.7	0.4	1 MEG	800					-10	ILG5
ILH4	DI-TRI	FIL	1.4	.05	5AG-L8	9A				AMP CL A	0		0.15	65	.24MEG	275						ILH4
ILN5	PENTODE	FIL	1.4	.05	7AO-L8	9A	.007	3.4	8.0	AMP CL A	0	90	1.6	0.35	1.1MEG	800					-4.5	ILN5
IN5CT	PENTODE	FIL	1.4	.05	5Y-OW7	9F	.007*	3.0	10.0	AMP CL A	0	90	1.2	0.3	1.5MEG	750					-4	IN5CT
IN6C	DI-PENT	FIL	1.4	.05	7AM-OS8 7AM-OW8	9N 9H				PR AMP CL A	0	90	3.4	0.7	.3 MEG	800	.10	25000				IN6C IN6CT
IP5CT	PENTODE	FIL	1.4	.05	5Y-OW7	9F	.007*	3.0	10.0	AMP CL A	0	90	2.3	0.7	.8 MEG	750					-12	IP5CT
IQ5CT	BEAM PWR AMP	FIL	1.4	.1	6X-OGT7	9H				POWER AMP CLASS A	0	90	9.5	1.3		2200	.27	8000				IQ5CT
IRA/1294	DIODE	HTR	1.4	0.15	4AH-L8	9A				DETECTOR												IRA/1294
IR5	HEPTODE	FIL	1.4	.05	7AT-MB7	5B	.4	7.0	7.0	OSC SECT MIXER	0	67.5	1.7	3.0	.5 MEG	300C					-15	IR5
IS4	PENTODE	FIL	1.4	.1	7AV-MB7	5B				PR AMP CL A	0	67.5	7.4	1.4	.1 MEG	1575	.270	8000				IS4
IS5	DIODE PENTODE	FIL	1.4	.05	7DJ-MB7	5B				DETECTOR AMP CL A	0	67.5	1.6	0.4	.6 MEG	625						IS5
ISA6CT	PENTODE	FIL	1.4	0.05	6BD-OW8	9E	0.01	5.2	8.6	AMP CL A	0	67.5	2.45	0.68	0.8MEG	970					-5.5 -3.5	ISA6CT
ISB6CT	DI-PENT	FIL	1.4	0.05	6BE-OS7	9H	0.25	3.2	3.0	DET AMP CL A	0	67.5	1.45	0.38	0.7MEG	665						ISB6CT
IT4	PENTODE	FIL	1.4	.05	6AR-MB7	5B	.01	3.6	7.5	AMP CL A	0	67.5	3.5	1.4	.5 MEG	900					-16 -10	IT4
IT5CT	BM PWR	FIL	1.4	.05	6X-OGT7	9H				PR AMP CL A	0	90	6.5	0.8		1150	.17	14000				IT5CT
IU4	PENTODE	FIL	1.4	0.05	6AR-MB7	5B	0.008	3.6	7.5	VOLTAGE AMP	0	90	1.6	0.5	1 MEG	900					-4	IU4
IU5	DI-PENT	FIL	1.4	0.05	6BW-MB7	5B				DET-AMP	0	67.5	1.6	0.4	0.6MEG	625						IU5
IU6	HEPTODE	FIL	1.4	.025	7DC-MB7	5B	.4*	8.0*	12*	OSC SECT. MIXER SECT.	0	45	1.1	OSC GRID CURR = .035ma 0.55							-3	IU6
I-V	DIODE	HTR	6.3	.3	4G-SS4	12B				H W RECT					45 DC MAX TUBE DROP 20v AT 90ma DC							I-V
IV2	DIODE	FIL	0.625	.3	9U-MB9	5G				HW RECTIFIER					MAX. PEAK INVERSE = 7500 V. MAX Io = 550ua							IV2
IV6	TRIODE PENTODE	FIL	1.25	.04	1F	3D	1.2 .05	4.0 3.2	1.9 2.4	TRIODE SECT. PENTODE SECT	45 45	1 MEG 5 MEG	0.4 0.4	0.15	OSC GRID CURR = 12ua 1 MEG 200C						-3.5	IV6
IW4	PENTODE	FIL	1.4	.05	5BZ-MB7	5B	.1*	3.6*	7.0*	POWER AMP	0	90	5.0	1.0	25MEG	925	.2	12000				IW4
IW5	PENTODE	FIL	1.25	.04	8CP.	3B	.01*	2.3*	3.5*	RF AMPLIFIER	67.5	0	67.5	1.85	.7 MEG	735					-5	IW5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE 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
		HTR OR FIL TYPE	HTR VOLTS			FIL AMPS	G-P mmfd												
1X2	DIODE	FIL	1.25	.2	9Y-MB9	5M			MAX. PEAK	INVERSE = 15,000 V; MAX I <sub>o</sub> = 1ma									1X2
1X2A	DIODE	FIL	1.25	.2	9Y-MB9	5M			MAX. PEAK	INVERSE = 20,000 V; MAX I <sub>o</sub> = 1.1ma									1X2A
1X2B	DIODE	FIL	1.25	.2	9Y-MB9	5M			MAX. PEAK	INVERSE = 22,000 V; MAX I <sub>o</sub> = 0.5ma									1X2B
1Z2	DIODE	FIL	1.5	0.3	7CB-MB7	5K			MAX PEAK	INVERSE = 20000	MAX I <sub>o</sub> = 2 madc								1Z2
2A3	TRIODE	FIL	2.5	2.5	4D-SM4	16B			250 300 300	—45 —62 SELF	60 80 80	4.2	800	5250	3.5 15 10	2500 3000 5000			2A3
2A4C	GAS TRI	FIL	2.5	2.5	5S-OS7	12E			200 RMS MAX		100 DC MAX	TUBE DROP 12v							2A4C
2A5	PENTODE	HTR	2.5	1.75	6B-SM6	14D		TRIODE CONNECTION	250 350	—20 —38	31 48	6.8	2600	.85 13.0	4000 6000				2A5
2A6	DUO-DI TRIODE	HTR	2.5	.8	6G-SS6	12H		1.7 2.0 3.5	250	—2	0.9		1100						2A6
2A7 2A7S	HEPTODE	HTR	2.5	.8	7C-SS7 7C-SS7	12H		.3* 8.5 9.0	250S 250	.05MEG —3	4.0 3.5	100		GRID #2 RES .02 MEG .36MEG 550C					2A7 2A7S

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



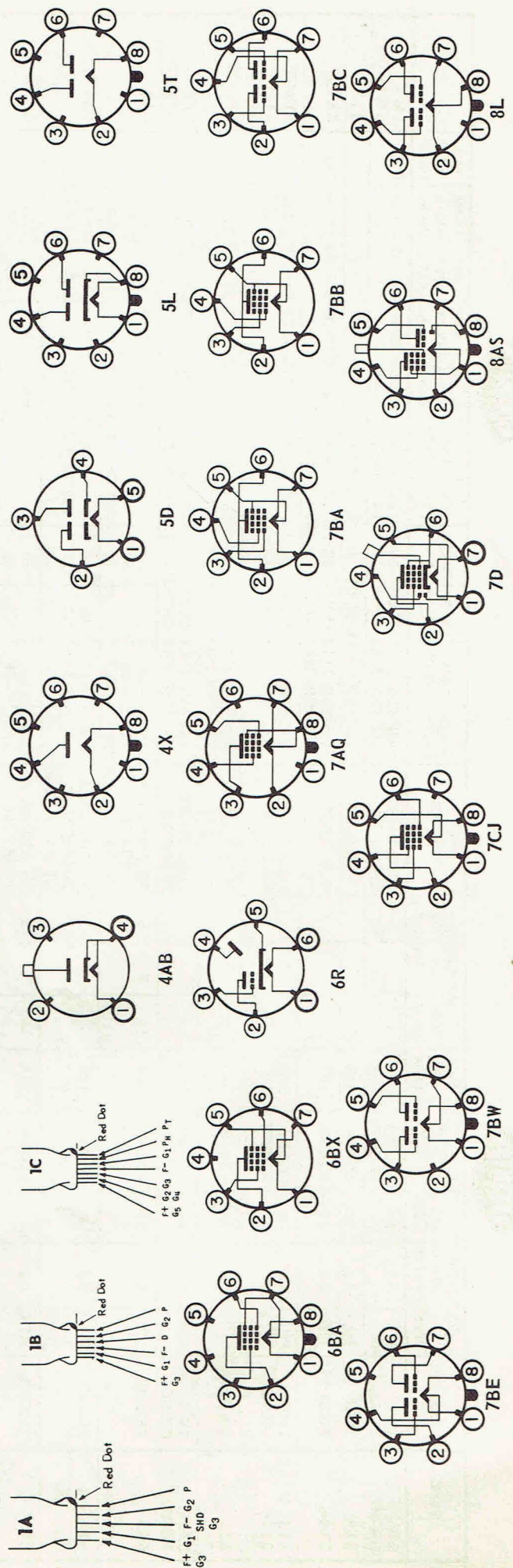


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	VOLTS			AMP	C-P mmfds	IN mmfds													
2B7	DUO-DI	HTR	2.5	.8	12H	.007*	3.5	9.5	AMPLIFIER CLASS A	250	-3	125	9.0	2.3	.65MEG	1125			-21	2B7	
2B7S	PENTODE	HTR	2.5	.8	7D-SS7				TUNING IND	100	-3	100	5.8	1.7	.30MEG	950			-17	2B7S	
2E5	ELEC RAY	HTR	2.5	.8	6R-SS6				VOLTAGE AMP	250 THRU 1 MEG, TARGET 250v, GRID 0v FOR 90° -8v FOR 0°	0	22.5	0.4	0.3	0.35MEG	500			-2.0	2E5	
2E31	PENTODE	FIL	1.25	0.05	1A	0.2	2.7	5.7	POWER AMP	22.5	0	22.5	0.27	0.07	0.22MEG	385	.0012	0.15		2E31	
2E32	PENTODE	FIL	1.25	0.03	1A	0.10	2.7	4.3	DET-AMP	22.5	0	22.5	0.35	0.12	0.25MEG	375				2E32	
2E35	DIODE	FIL	1.25	0.03	1B	0.065	3.5	3.6	TRIODE OSC	22.5	0	22.5	1.0							2E35	
2E36	PENTODE	FIL	1.25	0.05	1C				HEPT MIXER	22.5	0	22.5	0.2	0.3	0.5MEG	60C			-3.5	2E36	
2E41	DIODE	FIL	1.25	0.05	1C				DETECTOR											2E41	
2E42	PENTODE	FIL	1.25	0.05	1C				DETECTOR											2E42	
2C21	TRIODE	FIL	1.25	0.05	1C				HEPT MIXER											2C21	
2C22	HEPTODE	FIL	1.25	0.05	1C				HEPT MIXER											2C22	
2S/4S	DUO DIODE	HTR	2.5	1.35	5D-SS5				DETECTOR											2S/4S	
2W3GT	DIODE	FIL	2.5	1.5	4X-OW5				H W RECT	350 RMS MAX			55 DC MAX							2W3GT	
2X2A	DIODE	HTR	2.5	1.75	4AB-SS4				H W RECT	4500 RMS MAX			7.5 DC MAX							2X2A	
2Y2	DIODE	HTR	2.5	1.75	4AB-SS4				HALF-WAVE RECT	MAX PEAK INVERSE=12000 volts										2Y2	
3A4	BM PWR	FIL	1.4	0.2	7BB-MB7	0.2	4.8	4.2	PR AMP CL A	150	-8.4	90	13.3	2.2	0.10MEG	1900	700	8000		3A4	
3A5	TWIN TRIODE	FIL	1.4 or 2.8	.22	7BC-MB7	3.2L	0.9L	1.0L	H F AMP	135	-7.5	90	14.8	2.6	0.09MEG	1900	600	8000		3A5	
3A8GT	DI-TRI PENTODE	FIL	1.4 or 2.8	.1	8AS-OGT8	0.012	2.6*	4.2	TRI CL A PENT CL A	90	-FIL	90	0.20	0.5	.20MEG	325				3A8GT	
3B5GT	BM PWR	FIL	1.4 or 2.8	0.10	7AQ-OGT7	PARALLEL FIL	PARALLEL FIL	PARALLEL FIL	PR AMP CL A	45	-4.5	45	4.4	0.3	0.1MEG	1400	.070	8000		3B5GT	
3B7/1291	TWIN TRIODE	FIL	1.4	.22	7BE-18	2.6L	1.4L	1.8L	AMP OSC CLASS B	67.5	-7	67.5	6.7	0.5	0.1MEG	1500	.180	5000		3B7/1291	
3C5GT	BM PWR	FIL	1.4 or 2.8	0.1	7AQ-OGT7	2.6R	1.4R	2.6R	PR AMP CL A	135	0	90	19	20	1900	1.5	16000			3C5GT	
3C4	PENTODE	FIL	1.4	.05	6BX-MB7	.3	4.9	4.4	POWER AMP	90	-9	90	6	1.4	.125MEG	1350	.2	13000		3C4	
3C6	TWIN TRIODE	FIL	1.4 or 2.8	0.1	7BW-18	PARALLEL FIL	PARALLEL FIL	PARALLEL FIL	VOLTAGE AMP	90	0	90	4.5	14.5	11200	1300				3C6	
3D6/1299	BM PWR	FIL	1.4 or 2.8	.220	6BA-18	PARALLEL FIL	PARALLEL FIL	PARALLEL FIL	PR AMP CL A	150	-4.5	90	9.8	1.0		2400	.600	14000		3D6/1299	
3E5	BM PENT	FIL	1.4	.05	6BX-MB7	PARALLEL FIL	PARALLEL FIL	PARALLEL FIL	POWER AMP	135	-4.5	90	9.8	1.2		2400	.500	12000		3E5	
3E6	PENTODE	FIL	1.4 or 2.8	0.1	7CL-18	.007	5.5	8.0	VOLTAGE AMP	90	0	90	4.2	1.7	0.25 MEG	2000	PARALLEL FIL	PARALLEL FIL	-5.5	3E6	
3LE4	BM PWR	FIL	1.4 or 2.8	0.1	6BA-18	PARALLEL FIL	PARALLEL FIL	PARALLEL FIL	PR AMP CL A	90	-9	90	10.0	2	0.10MEG	1700	.325	6000		3LE4	
3LF4	BM PWR	FIL	1.4 or 2.8	0.1	6BA-18	PARALLEL FIL	PARALLEL FIL	PARALLEL FIL	PR AMP CL A	90	-9	90	8.8	1.8	0.11MEG	1600	.300	6000		3LF4	
3Q4	BM PWR	FIL	1.4 or 2.8	0.1	7BA-MB7	PARALLEL FIL	PARALLEL FIL	PARALLEL FIL	PR AMP CL A	90	-4.5	90	9.5	1.3	0.75MEG	2200	.270	8000		3Q4	
										90	-4.5	90	7.7	1.7	0.80MEG	2000	.230	8000			
										90	-4.5	90	9.5	2.1	0.10MEG	2150	.250	10000			
										90	-4.5	90	7.7	1.7	0.12MEG	2000	.240	10000			

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	COND mmho	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		HTR OR FIL	AMPS			G-P	IN	OUT														
3Q5CT	BM PWR	FIL	1.4 or 2.8	7AQ-OG17	9H	PARALLEL FIL SERIES FIL	0.20	5.5	3.8	PR AMP CL A	90	90	9.5	1.3	.075MEG	2200	.270	.230	8000		3Q5GT	
3S4	PENTODE	FIL	1.4 or 2.8	7BA-MB7	5B	PARALLEL FIL SERIES FIL	0.20	5.5	3.8	POWER AMP CLASS A	90	90	7.4	1.4	.1 MEG	1550	.270	.235	8000		3S4	
3V4	PENTODE	FIL	1.4 or 2.8	6BX-MB7	5B	PARALLEL FIL SERIES FIL	0.1	0.05		POWER AMP	90	90	6.1	1.1	.1 MEG	1425	0.27	0.24	10000	Per Fil	3V4	
4A6G	TWIN TRIODE	FIL	2.0 or 4.0	8L-OS8	12E					CL A 1 SECT CL B 2 SECT	90	90	1.1	20	26600	750	1.0		8000		4A6C	
5AW4	DBLE DI	FIL	5.0	5T-OM5	16A					FW RECTIFIER	MAX. PEAK INVERSE = 1550 V; MAX Io = 250ma										5AW4	
5AX4CT	DBLE DI	FIL	5.0	5T-OGT5	9HB					FW RECTIFIER	MAX. PEAK INVERSE = 1400 V; MAX Io = 175ma										5AX4CT	
5AZ4	DOUBLE DIODE	FIL	5.0	5T-18	9B					FULL-WAVE RECT	MAX PEAK INVERSE=1400 volts										5AZ4	
5R4C	DBLE DI	FIL	5.0	5T-OM5	16A					FW RECTIFIER	MAX. PEAK INVERSE = 2800 V; MAX Io = 250ma											5R4C
5R4GY	TWIN DIODE	FIL	5.0	5T-OM5	16A					FULL WAVE RECTIFIER	1000 RMS MAX COND IN 150 DC MAX 950 RMS MAX CHOKE IN 175 DC MAX											5R4GY
5T4	TWIN DIODE	FIL	5.0	5T-OW5	10C					FULL WAVE RECTIFIER	450 RMS MAX COND IN 225 DC MAX 550 RMS MAX CHOKE IN 225 DC MAX											5T4
5U4G	TWIN DIODE	FIL	5.0	5T-OM8	16A					FULL WAVE RECTIFIER	450 RMS MAX COND IN 225 DC MAX 550 RMS MAX CHOKE IN 225 DC MAX											5U4G
5V4G	TWIN DIODE	HTR	5.0	5L-OM5	14C					FULL WAVE RECTIFIER	375 RMS MAX COND IN 175 DC MAX 500 RMS MAX CHOKE IN 175 DC MAX											5V4G

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES





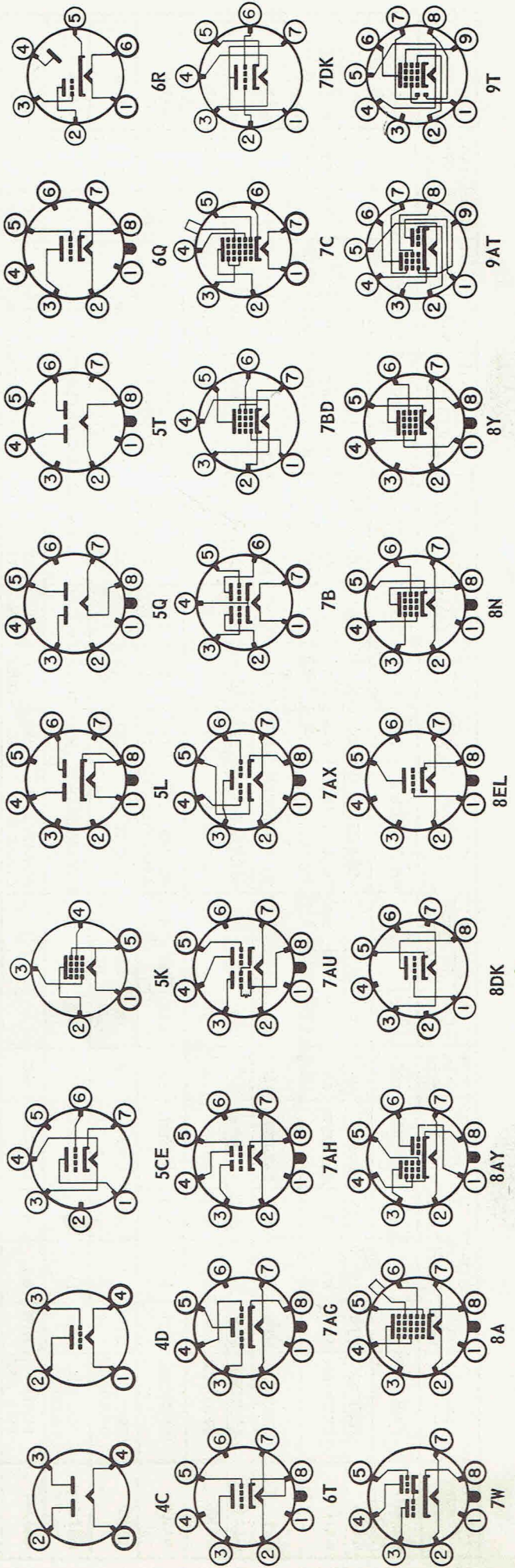
TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE	
		TYPE	VOLTS			AMPS	G-P mmf/ds														IN mmf/ds
5W4 5W4CT	TWIN DIODE	FIL	5.0	1.5	8H 9HB			FULL WAVE RECTIFIER	350 RMS MAX COND IN 100 DC MAX 500 RMS MAX CHOKE IN 100 DC MAX								TUBE DROP 45v AT 100ma DC			5W4 5W4CT	
5X3	TWIN DI	FIL	5.0	2.0	14D			F W RECT	1275 RMS MAX COND IN 30 DC MAX												5X3
5X4G	TWIN DI	FIL	5.0	3.0	16A			F W RECT	450 RMS MAX COND IN 225 DC MAX 550 RMS MAX CHOKE IN 225 DC MAX												5X4G
5Y3CT 5Y4G 5Y4CT	TWIN DIODE	FIL	5.0	2.0	9HB 14C 9HB			FULL WAVE RECTIFIER	350 RMS MAX COND IN 125 DC MAX 500 RMS MAX CHOKE IN 125 DC MAX												5Y3CT 5Y4G 5Y4CT
5Z3	TWIN DI	FIL	5.0	3.0	16B			F W RECT	450 RMS MAX COND IN 225 DC MAX 550 RMS MAX CHOKE IN 225 DC MAX												5Z3
5Z4 5Z4CT	TWIN DIODE	HTR	5.0	2.0	8H 9H			FULL WAVE RECTIFIER	350 RMS MAX COND IN 125 DC MAX 500 RMS MAX CHOKE IN 125 DC MAX												5Z4 5Z4CT
6A3	TRIODE	FIL	6.3	1.0	16B	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	5250 15 10	3.2 3.0 5000						6A3
6A4/LA	PENTODE	FIL	6.3	.3	14D			PR AMP CL A PUSH-PULL CL AB 2 TUBE	180 250	-12 SELF	22 32	3.9 700 OHM BIAS RES	100 45500	2200 4.2	1.4 16000						6A4/LA
6A5G	TRIODE	HTR	6.3	1.25	16A	16	5	PR AMP CL A PUSH-PULL CL AB 2 TUBE	250 325 325	-45 -68 SELF	60 80 80	4.2	850 OHM BIAS RES	5250 15 10	3.75 3000 5000						6A5G
6A6	TWIN TRIODE	HTR	6.3	.8	14D	(SEE TYPE 6N7G ALSO)		AMP CL A TRI IN PARL	294 250	-6 -5	7 6	35 35		3200 3100							6A6
6A7 6A7S 6A8 6A8C 6A8CT	HEPTODE	HTR	6.3	.3	12H 8F 12F 9F	.3* .03 .26* .26*	8.5 12.5 9.5* 9.5*	9.0 12.5 12* 12*	OSC SECT MIXER	.05MEG .05MEG -3 -1.5	4.0 2.0 3.5 1.1		.36MEG .6 MEG	550C 360C							6A7 6A7S 6A8 6A8C 6A8CT
6AB4	TRIODE	HTR	6.3	.15	5B	1.5*	2.4	1.4	RF AMPLIFIER	100 250	-1 2	3.7 10		4000 5500							6AB4
6AB5/6N5	ELEC RAY	HTR	6.3	.15	9R				135 THRU .25 MEG, TARGET 135v, GRID 0v FOR 90°, -10.0v FOR 0°												6AB5/6N5
6AB6G	DUO TRIODE	HTR	6.3	0.5	12K	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP	250 300	0 -3	5 12.5	72 3.2	1800 5000	3.5 8000						6AB6G
6AB7/1853	PENTODE	HTR	6.3	.45	8E	.015 8	5		HIGH FREQ AMPLIFIER	300 300	-3 -3	200 300	THRU .03 MEG (OTHER VALUES SAME AS ABOVE)	5000							6AB7/1853
6AB8	TRIODE PENTODE	HTR	6.3	.3	5H	.2 1.0	4.6 2.3	1.1	TRIODE SECT PENTODE SECT	100 200	-2 -7.7	4 17.5	3.3	1350 3400	1.4 11000						6AB8
6AC5G	TRIODE	HTR	6.3	.4	12E	ONE 76 DRIVER TWO 76 DRIVERS			DIR C'P'D AMP PUSH-PULL CL B 2 TUBE	250 250 250	SUPPLIED BY DRIVERS	32 64	125	3400	3.7 9.5 8	7000 10000 10000					6AC5G
6AC6GT	DUO TRIODE	HTR	6.3	1.1	9H	DRIVER TRIODE OUTPUT TRIODE			DIR C'P'D AMP	180 180	0 +	7 45	54	3000 4000	3.8 4000						6AC6GT
6AC7/1852	PENTODE	HTR	6.3	.45	8E	.015 11	5		HIGH FREQ AMPLIFIER	300 300	SELF SELF	150 300	2.5 THRU .06 MEG (OTHER VALUES SAME AS ABOVE)	9000	160 OHM—BIAS RES						6AC7/1852
6AD4	TRIODE	HTR	6.3	.15	3B	.7* 1.9*	2.2*		OSC-AMP	100	RK 820	1.4	70	.035MEG	2000						6AD4
6AD5G	TRIODE	HTR	6.3	0.3	12E	3.3 4.1	3.9		AMP CL A	250	-2	0.9	100	66000	1500						6AD5G

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE		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			G-P mmfd	IN mmfd														OUT mmfd
6AD6G	TWIN ELEC RAY	HTR	6.3	.15	7AG-OW7	9C		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 TRIODE PENTODE	HTR	6.3	.85	8AY-OM8	14C	TRIODE SEC PENTODE SEC	AMP CL A PR AMP CL A	250 250	-25 -16.5	250 250	3.7 34	6.5	6	19000 80000	325 2500	3.2	7000			6AD7G
6AD8	DBLE DI PENTODE	HTR	6.3	.3	9T-MB9	5H	.002	DET-AMP	250	RK 225	85	6.7	2.3		1 MEG	1100			-15		6AD8
6AE5GT	TRIODE	HTR	6.3	.3	6Q-OGT6	9H		AMP CL A	95	-15		7	4.2		3500	1200					6AE5GT
6AE6G	DUO TRIODE	HTR	6.3	.15	7AH-OS7	12E		CONTROL FOR 6AD6G-6AF6G	250 250	-1.5 -1.5		6.5 4.5	25 33		1000 950	1000 950	PLATE R PLATE L				6AE6G
6AE7GT	TWIN TRIODE	HTR	6.3	.5	7AX-OGT8	9H		DRIVER 1 SEC TRIODE	250	-13.5		5	14		9300	1500					6AE7GT
6AF4	TRIODE	HTR	6.3	.225	7DK-MB7	5B	1.9	UHF OSC	80	RK 150		16	15		2270	6600					6AF4
6AF5G	TRIODE	HTR	6.3	.3	6Q-OS6	12E		AMP CL A	180	-18		7	7.4	4900	1500						6AF5G
6AF6G	TWIN ELEC RAY	HTR	6.3	.15	7AG-OS7	9M		TUNING INDICATOR	TARGET 135v CONTROL ELECTRODE 81v AT 0°, 0v AT 100°	TARGET 100v CONTROL ELECTRODE 60v AT 0°, 0v AT 100°											6AF6G
6AG5	PENTODE	HTR	6.3	0.3	7BD-MB7	5B	0.025	AMP CL A	250	-2	150	7	2		0.8MEG	5000			-8		6AG5
6AG7	PENTODE	HTR	6.3	.65	8Y-OW8	8H	.06*	AMP CL A	300	-3	150	30	7		0.13MEG	11000	3	10000	-8		6AG7
6AH4CT	TRIODE	HTR	6.3	.75	8EL-OS6	9H	4.2*	VERTICAL AMP	250	-23		30	8			4500			-40		6AH4CT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



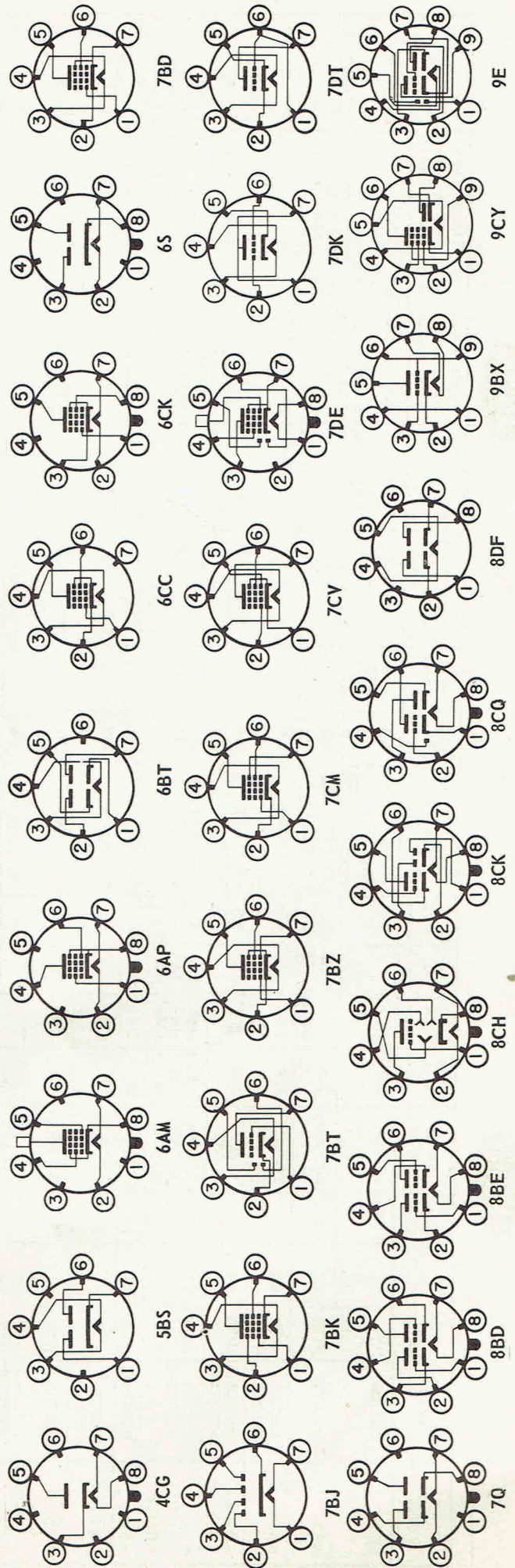


TYPE	DESIGN	CATHODE HTR OR FIL		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE						
		TYPE	VOLTS			AMPS	G-P mmfds	IN mmfds														OUT mmfds					
6AH5G	PWR AMP	HTR	6.3	0.9	6AP-OM8	16A			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	5B	0.02	10	3.6	300	Rk 160	150	10	2.5	0.5MEG	9000				-7	6AH6						
6AH7GT	TWIN TRI	HTR	6.3	.3	8BE-OGT8	9D	2.2(1) 3.0(2)	3.2(1) 2.9(2)	3.0(1) 2.6(2)	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	5L	2.8*	4.6*	1.4*	125	RK 68		16	42		10000					6AJ4						
6AJ5	PENTODE	HTR	6.3	0.175	7BD-MB7	5A	0.01	4.1	2.0	28	Rk 200	28	3.0	1.2	90000	2750					6AJ5						
6AK5	PENTODE	HTR	6.3	0.175	7BD-MB7	5A	0.01	4.3	2.1	180	-2	120	7.7	2.4	0.69MEG	5100				-12	6AK5						
6AK6	PENTODE	HTR	6.3	0.15	7BK-MB7	5B	0.12	3.6	4.2	180 135	-9 -6	180 135	15 11.5	2.5 2.0	.19MEG .17MEG	2300 2100	1.1 0.6	10000 12000			6AK6						
6AK8	TRIPLE DIODE-TRI	HTR	6.3	.45	9E-MB9	5H	.04	1.9	1.6	100 250	-1 -3		0.8 1.0	70 70		1300 1200					6AK8						
6AL5	DOUBLE DIODE	HTR	6.3	0.3	6BT-MB7	5A			3.2	MAX INVERSE=330v											MAX Io=9 madd PER PLATE				6AL5		
6AL6G	BEAM PWR AMP	HTR	6.3	.9	6AM-OM7	16C				250 250	-14 SELF	250 250	72 75	5 5.4	22500 OHM BIAS RES	6000 6.5	6.5 2500					6AL6G					
6AL7GT	ELEC RAY	HTR	6.3	0.15	8CH-OGT8	9HC				TARGET=315v, GRID=0v, RK=3300 ohms																	6AL7GT
6AM4	TRIODE	HTR	6.3	.225	9BX-MB9	5L	2.8*	4.6*	.16	150	RK 100		7.5	85		9000						6AM4					
6AM8	DIODE PENTODE	HTR	6.3	.45	9CY-MB9	5G	.015	6	2.6	200	Rk 120	150	9.5	3	.3MEG	5800						6AM8					
6AN4	TRIODE	HTR	6.3	.225	7DK-MB7	5A	1.7	2.9	.25	200	RK 100		13	70		9000						6AN4					
6AN5	PENTODE	HTR	6.3	0.45	7BD-MB7	5B	0.075	9.0	4.8	120	Rk 120	120	35	12	12500	8000	1.3	2500			6AN5						
6AN6	QUAD DIODE	HTR	6.3	0.20	7BJ-MB7	5B				MAX INVERSE=210v											MAX Io=8 madd PER DIODE				6AN6		
6AQ4	TRIODE	HTR	6.3	.3	7DT-MB7	5B	2.5	8.5	.2	250	-1.5		10	100		8500						6AQ4					
6AQ5	BEAM PENTODE	HTR	6.3	0.45	7BZ-MB7	5J	0.17	8.0	1.10	250	-12.5	250	45	4.5	52000	4100	4.5	5000				6AQ5					
6AQ6	DOUBLE DI-TRI	HTR	6.3	0.15	7BT-MB7	5B	1.8	1.7	1.5	250	-3		1	70		1200						6AQ6					
6AQ7GT	DOUBLE DI-TRI	HTR	6.3	0.3	8CK-OGT8	9H	3.0	2.8	3.2	250	-2		2.3	70		1600						6AQ7GT					
6AR5	PENTODE	HTR	6.3	0.4	6CC-MB7	5J				250	-18	250	32	5.5	68000	2300	3.4	7600				6AR5					
6AR7GT	DBLE DI PENTODE	HTR	6.3	.3	7DE-OW8	9GA	.003	5.5	7.5	250	-2	100	7.0	1.8	1.2MEG	2500					-25	6AR7GT					
6AS4GT	DIODE	HTR	6.3	1.2	4CG-OS6	9H				MAX PEAK INVERSE = 5500 V; MAX Io = 125ma																	6AS4GT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

TYPE	DESIGN	CATHODE		MAX SIZE VIEW	BASING DATA	CAPACITANCES			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
		HTR OR FIL	AMPS			G-P	IN	OUT													
6AS5	BEAM PENTODE	HTR	0.8	5J	7CV-MB7	0.6	12	6.2	POWER AMP	150	-8.5	110	35	2		5600	2.2	4500		6AS5	
6AS6	PENTODE	HTR	0.175	5A	7CM-MB7	0.01	3.9	3	VOLTAGE AMP	120	-2	120	5.2	3.5		3200			-10	6AS6	
6AS7C	DBLE TRI	HTR	2.5	16A	8BD-OM8				POWER AMP	135	Rk 250	125	125	2.1		7500			Each Unit	6AS7C	
6AT6	DOUBLE DI-TRI	HTR	0.3	5B	7BT-MB7	2.1	2.3	1.1	DET-AMP	250	-3		1	70		1200				6AT6	
6AU4GT	DIODE	HTR	1.8	9V	4CG-OS6				DAMPER	MAX PEAK INVERSE = 4500 V; MAX I <sub>o</sub> = 175ma										6AU4GT	
6AU5GT	BM PENT	HTR	1.25	9H	6CK-OS6	.5	11.3	7.0	HORIZ. AMP	315	Rk 80	150	59	9							6AU5GT
6AU6	PENTODE	HTR	0.3	5B	7BK-MB7	.0035	5.5	5	VOLTAGE AMP	250	-1	150	10.8	4.3	1 MEG	5200			-6.2	6AU6	
6AV4	DBLE DI	HTR	.95	5J	5BS-MB7				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX I <sub>o</sub> = 90ma											6AV4
6AV5GT	BM PENT	HTR	1.2	9H	6CK-OT6				HORIZ. AMP	200	0	125	66	12							6AV5GT
6AV6	DOUBLE DI-TRI	HTR	0.3	5B	7BT-MB7	2.1	2.3	0.9	DET-AMP	250	-2		1.2	100		1600					6AV6
6AW7GT	DOUBLE DI-TRI	HTR	0.3	9EC	8CQ-OW8				DET-AMP	100	0		1.4	80		1200					6AW7GT
6AX4GT	DIODE	HTR	1.2	9H	4CG-OS5				DAMPER	MAX PEAK INVERSE = 4000 V; MAX I <sub>o</sub> = 125ma											6AX4GT
6AX5GT	DBLE DI	HTR	1.2	9H	6S-OS6				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX I <sub>o</sub> = 150ma											6AX5GT
6AX6G	DBLE DI	HTR	2.5	14C	7Q-OM7				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX I <sub>o</sub> = 250ma											6AX6G
6AZ5	DBLE DI	HTR	.15	3C	8DF				DETECTOR	MAX PEAK INVERSE = 420 V; MAX I <sub>o</sub> = 8ma											6AZ5

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES





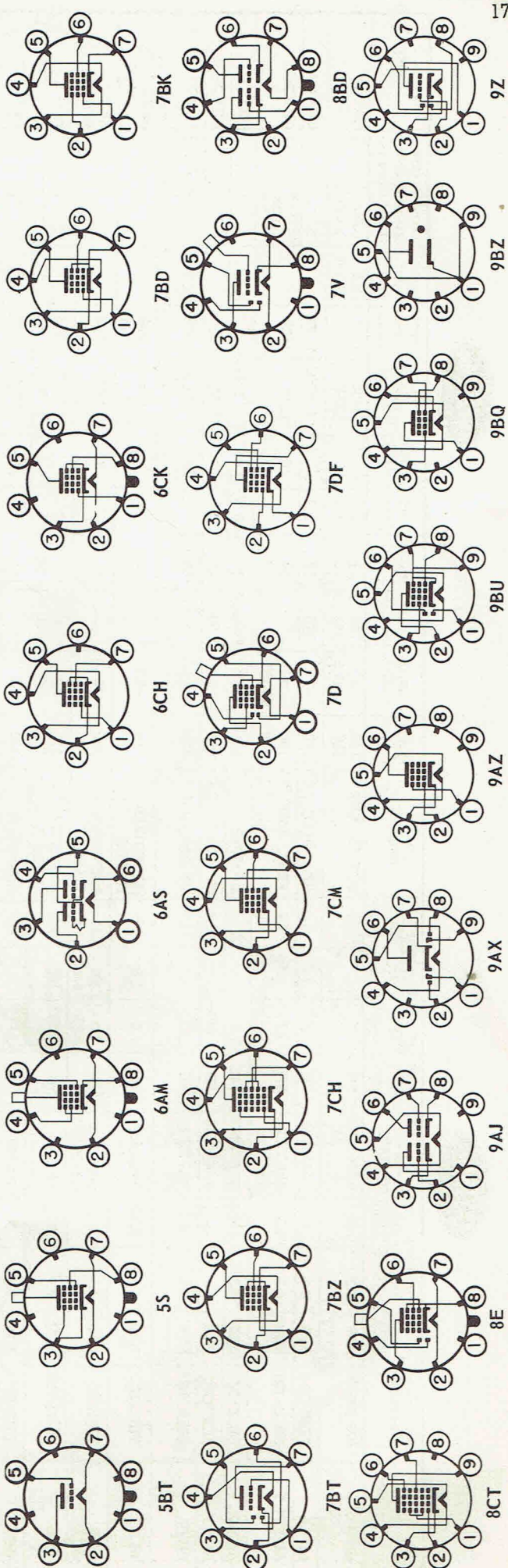


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE			
		TYPE	HTR OR FIL VOLTS			AMPS	C-P mmfds	IN mmfds														OUT mmfds		
6B4C	TRIODE	FIL	6.3	1.0	5S-OM8	16A	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		6B4C			
6B5	DUO-TRI	HTR	6.3	.8	6AS-SM6	14D	1.3	2.7	4.5	DRIVER TRIODE OUTPUT TRIODE	325 325	0 +	9 51			See Type 6N6G Also 13.5	10000				6B5			
6B6C	DUO-DI TRIODE	HTR	6.3	.3	7V-OS7	12F	.007*	3.5	9.5	AMPLIFIER CLASS A	250	-2	0.9	100	91000	1100					6B6C			
6B7 6B7S	DUO-DI PENTODE	HTR	6.3	.3	7D-SS7 7D-SS7	12H	.005*	6	9	AMPLIFIER CLASS A	250 100	-3 -3	9.0 5.8	2.3 1.7	.6 MEG .3 MEG	1125 950				-21 -17	6B7 6B7S			
6B8 6B8C 6B8CT	DUO-DI PENTODE	HTR	6.3	.3	8E-OW8 8E-OS8 8E-OW8	8F 12F 9G	.005 .01* 0.005*	3.6* 4.5*	9.5* 10*	AMPLIFIER CLASS A	250 100	-3 -3	125 100	2.3 1.7	.6 MEG .3 MEG	1325 950				-21 -17	6B8 6B8C 6B8CT			
6BA6	PENTODE	HTR	6.3	0.3	7BK-MB7	5B	.0035	5.5	5.0	VOLTAGE AMP	250	Rk 68	11	4.2	1 MEG	4400				-20	6BA6			
6BA7	PENTA-GRID	HTR	6.3	0.3	8CT-MB9	5H	0.19	9.5	8.3	CONVERTER	250	-1.0	3.8	10.0	1 MEG	950C				-20	6BA7			
6BC5	PENTODE	HTR	6.3	.3	7BD-MB7	5B	.02*	6.6*	3.1*	CL A AMP	100 250	Rk 180 Rk 180	4.7 7.5	1.4 2.1	.6 MEG .8 MEG	4900 5700				-5 -8	6BC5			
6BC7	TRIPLE DI	HTR	6.3	.45	9AX-MB9	5G				FM DETECTOR	MAX I <sub>o</sub> = 12ma per plate													6BC7
6BD5CT	BM PENT	HTR	6.3	.9	6CK-OGT6	9NA				HORIZ. AMP	MAX I <sub>k</sub> = 100ma; MAX PEAK POS. PLATE SURGE = 4000 V													6BD5CT
6BD6	PENTODE	HTR	6.3	0.3	7BK-MB7	5B	0.004	4.3	5.0	VOLTAGE AMP	250	-3	9	3	0.8MEG	2000					-35	6BD6		
6BD7	DBLE DI TRIODE	HTR	6.3	.23	9Z-MB9	5H	1.3	2.4	1.3	DET-AMPLIFIER	250	-3	1.0	70		1200						6BD7		
6BE6	HEPTODE	HTR	6.3	0.3	7CH-MB7	5B	0.3	7.2	8.6	CONVERTER	250	-1.5	3	7.1	1 MEG	475C					-30	6BE6		
6BF5	PENTODE	HTR	6.3	1.2	9BZ-MB9	5J	.65	14	6	VERT. AMP	225	Rk 1200	20	6.7	4200							6BF5		
6BF6	DOUBLE DI-TRI	HTR	6.3	0.3	7BT-MB7	5B	2	1.8	1.4	DET-AMP	250	-9	9.5	16	1900							6BF6		
6BC6G	BEAM PENTODE	HTR	6.3	0.9	5BT-OM6	16D	0.5	11	6.5	DEFLECT AMP	MAX PEAK POS. PLATE SURGE=6000v, MAX I <sub>b</sub> =100 ma													6BC6G
6BH5	PENTODE	HTR	6.3	.2	9AZ-MB9	5H	.002	4.9	5.5	RF AMPLIFIER	250	-2.5	100	1.7	1.1MEG	2200					-18	6BH5		
6BH6	PENTODE	HTR	6.3	0.15	7CM-MB7	5B	.0035	5.4	4.4	VOLTAGE AMP	250	-1	150	2.9	1.4MEG	4600					-7.7	6BH6		
6BJ5	BM PENT	HTR	6.3	.64	6CH-MB7	5J				POWER AMP	250	-5.0	35	5.5	40000	10500	4	7000				6BJ5		
6BJ6	PENTODE	HTR	6.3	0.15	7CM-MB7	5B	.0035	4.5	5	VOLTAGE AMP	250	-1	100	3.3	1.3MEG	3800					-20	6BJ6		
6BJ7	TRIPLE DIODE	HTR	6.3	.45	9AX-MB9	5G				DC RESTORER	MAX PEAK INVERSE = 330 V; MAX PEAK PLATE CURR PER PLATE = 10ma DC OUTPUT CURRENT PER PLATE 1.0ma DC													6BJ7
6BK5	BM PENT	HTR	6.3	1.2	9BQ-MB9	5H	.6	13	5.0	POWER AMP	250	-5.0	250	3.5	.1 MEG	8500	3.5	6500				6BK5		
6BK6	DBLE DI TRIODE	HTR	6.3	.3	7BT-MB7	5J				DET-AMP	100 250	-1 -2	0.5 1.2	100 100	80000 62500	1250 1600						6BK6		

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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													
6BK7	TWIN TRIODE	HTR	6.3	.45	9AJ-MB9	5G	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	5G	1.8	3.0	1.0	RF AMPLIFIER	150	Rk 56	18	43	4600	9300			-11	6BK7A	
6BL7CT	DBLE TRI	HTR	6.3	1.5	8BD-OS8	9H	4.2*	5.0*	3.4*	VERT. AMP	250	-9	40	15	7000	7000			-25	6BL7CT	
6BM5	BM PENT	HTR	6.3	.45	7BZ-MB7	5J	.5	8.0	5.5	POWER AMP	250	-6	30	3	60000	7000	3.5	7000			6BM5
6BN6	GATED BM	HTR	6.3	.3	7DF-MB7	5J				DISCRIMINATOR	80	INPUT SIG. CENTER FREQ. = 10.7 Mc; FREQ. DEV = ±75 Kc									6BN6
6BN7	DOUBLE TRIODE	HTR	6.3	.75	9AJ-MB9	5H	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	
6BQ6G	BM PENT	HTR	6.3	1.2	6AM-OS7	12F	.6	15	7.5	HORIZ AMP	60 250	0 -22.5	225 55	25 2.1	20000	5500			-46	6BQ6G	
6BQ6CT	BM PENT	HTR	6.3	1.2	6AM-OGT7	9LB	.95	14	9.5	HORIZ AMP	250	Rk 140 43	99	11.5					MAX PEAK POS. PLATE SURGE = 5500 V	6BQ6CT	
6BQ7	DBLE TRI	HTR	6.3	.4	9AJ-MB9	5G	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	5G	1.5	2.85	1.35	RF AMPLIFIER	150	Rk 220	9	39	6100	6400			-10	6BQ7A	
6BT6	DBLE DI TRIODE	HTR	6.3	.3	7BT-MB7	5J				DET-AMPLIFIER	100 250	-1 -3	.8 1.0	70 70	54800 58000	1300 1200					6BT6
6BU6	DBLE DI TRIODE	HTR	6.3	.3	7BT-MB7	5J				DET-AMPLIFIER	250	-9	9.5	16	8500	1900					6BU6
6BV7	DBLE DI PENTODE	HTR	6.3	.8	9BU-MB9	5H	.5	11.5	9.5	DET-AMPLIFIER	180 250	-4 -5	20 38	3.5 6.0	.13MEG .11MEG	8000 10000	2.0 4.0	8000 8000			6BV7

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES





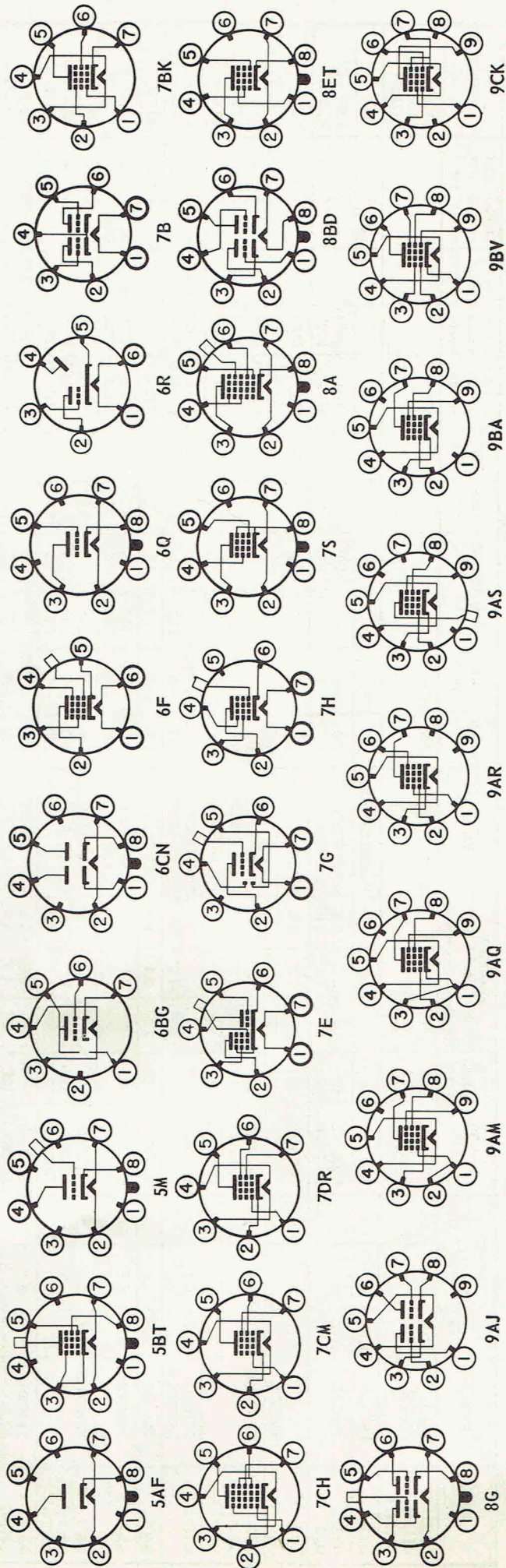
TYPE	DESIGN	CATHODE HTR OR FIL		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RES OHMS	MUT COND mmho	OUT WATTS	LOAD RES OHMS	CUT OFF VOLTS	TYPE			
		TYPE	VOLTS			AMPS	G-P mmfd	IN mmfd														OUT mmfd		
6BW6	BM PENT	HTR	6.3	.45	9AM-MB9	5H			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	5H	.007	7.2	RF AMPLIFIER	170	-2	170	10	2.5	.4	MEG	7200				6BX6			
6BX7GT	DBLE TRI	HTR	6.3	1.5	8BD-OS8	9H	4.0	4.8	VERT. AMP	100 250	0	Rk390	80 42	10	1300	7600					6BX7GT			
6BY5G	DBLE DI	HTR	6.3	1.6	6CN-OM7	14C			DAMPER	MAX PEAK INVERSE = 3000 V; MAX I <sub>o</sub> = 175ma														6BY5G
6BY7	PENTODE	HTR	6.3	.3	9AQ-MB9	5H	.007	7.2	RF AMPLIFIER	250	-2	100	10	2.5	.5	MEG	6000					6BY7		
6BZ7	DBLE TRI	HTR	6.3	.4	9AJ-MB9	5H	1.15	2.5	RF AMPLIFIER	150	Rk 220		10	38	5600	6800				-11		6BZ7		
6C4	TRIODE	HTR	6.3	0.15	6BG-MB7	5B	1.6	1.8	H-F POWER TRIODE	250	-8.5 0		10.5 11.8		7700 6250	2200 3100						6C4		
6C5 6C5GT	TRIODE	HTR	6.3	.3	6Q-OW6 6Q-OW6	8D 9E	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	12J	.007*	5.0	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	12F			CL A 1 SECT	250	-4.5		3.2	36	22500	1600						6C8G		
6CA7	BM PENT	HTR	6.3	1.5	8ET-OGT8	10CA	1.0	15.5	POWER AMP	250	-14.5	150	70	10	18000	9000	8					6CA7		
6CB6	PENTODE	HTR	6.3	.3	7CM-MB7	5B	.02	6.3	RF PENTODE	200	Rk 180		9.5	2.8	.6	MEG	6200			-8		6CB6		
6CD6G	BM PENT	HTR	6.3	2.5	5BT-OM6	16D	1.0	2.6	HORIZ AMP	430	Rk 270		112	14	MAX PULSE PEAK POS PLATE = 6000 V							6CD6G		
6CF6	PENTODE	HTR	6.3	0.3	7CM-MB7	5B	.02	6.3	RF AMPLIFIER	200	Rk 180		9.5	2.8	.6	MEG	6200			-6.5		6CF6		
6CG6	PENTODE	HTR	6.3	.3	7BK-MB7	5B	.008	5.0	RF AMPLIFIER	250	-8	150	9.0	2.3	.72	MEG	2000			-24		6CG6		
6CH6	PENTODE	HTR	6.3	.75	9BA-MB9	5H			RF AMPLIFIER	250	-4.5	250	40	6.0	50000	11000						6CH6		
6CJ6	PENTODE	HTR	6.3	1.05	9AS-MB9	5N	.8	14.7	CL A AMPLIFIER	250	-38.5	250	32	2.4	15000	4600						6CJ6		
6CK6	PENTODE	HTR	6.3	.71	9AR-MB9	5P	.1	11.2	CL A AMPLIFIER	250	-5.5	250	36	5	.13	MEG	10000					6CK6		
6CL6	PENTODE	HTR	6.3	.65	9BV-MB9	5H	.12	11	CL A AMPLIFIER	250	-3	150	30	7	.15	MEG	11000	2.8	7500			6CL6		
6CM6	BM PENT	HTR	6.3	.45	9CK-MB9	5H	.7	8	VERT. AMP	MAX PEAK POS. PLATE = 2000 V MAX PLATE DISS. = 8 WATTS; MAX PEAK I <sub>k</sub> = 120ma													6CM6	
6CQ6	PENTODE	HTR	6.3	.2	7DR-MB7	5B	.01	7.0	RF AMPLIFIER	250	-5	100	4.9	1.25		2500				-34		6CQ6		
6CS6	HEPTODE	HTR	6.3	.3	7CH-MB7	5B	.05	5.5	CL A AMPLIFIER	100	-1.0	30	.75	1.1	1	MEG	950			-2.5		6CS6		
6D6	PENTODE	HTR	6.3	.3	6F-SS6	12J	.007*	4.7	AMP CL A	250 100	-3 -3	100 100	8.2 8.0	2.0 2.2	.8 .25	MEG MEG	1500 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	1.5 1	MEG MEG	1226 1185			-7 -7		6D7		
6D8G	HEPTODE	HTR	6.3	.15	8A-OS8	12F	.2*	8.0*	OSC SECT MIXER	250S 250	.05MEG -3	100 100	4.3 3.5	2.6		GRID #2 RES .02 MEG .4 MEG 550C				-35		6D8G		
6E5	ELEC RAY	HTR	6.3	.3	6R-SS6	9R			TUNING IND	250 THRU 1 MEG, TARGET 250v, GRID 0v FOR 90°, -8v FOR 0°													6E5	

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE 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
		HTR OR FIL TYPE	HTR VOLTS			G-P mmfds	IN mmfds												
6E6	TWIN TRI	HTR	6.3	.6	7B-SM7	14D		PUSH-PULL	250	-27.5	18		6	3500	1700	1.6	14000		6E6
6E7	PENTODE	HTR	6.3	.3	7H-SS7			AMP CL A	250	-27.5	36			.8 MEG	1600			-50	6E7
6F5	TRIODE	HTR	6.3	.3	5M-OW5	8F	2.0	6.0	250	100	8.0	2.0		.25MEG	1500			-50	6F5
6F5CT		HTR	6.3	.3	5M-OW5	9J	2.0*	6.0*	100	-3	8.0	2.2							6F5CT
6F6	PENTODE	HTR	6.3	.7	7S-OW7	8H	PENTODE CONNECTION		285	285	38	7		78000	2550	4.8	7000		6F6
6F6C		HTR	6.3	.7	7S-OW7	14C			250	-16.5	34	6.5		80000	2500	3.2	7000		6F6C
6F7	TRIODE	HTR	6.3	.3	7E-SS7	12H	2.0	2.5	100	-3	3.5	1.5		16000	500	(SEE 6P7G ALSO)			6F7
6F7S	PENTODE	HTR	6.3	.3	7E-SS7		.008*	3.2	250	-3	6.5	1.5		.95MEG	1100			-35	6F7S
6F8C	TWIN TR	HTR	6.3	.6	8G-OS8	12F	4.0L	3.2L	250	-8	9.0	20		7700	2800				6F8C
6G5/6H5	ELEC RAY	HTR	6.3	0.3	6R-SS6	12B	3.6R	3.8R	90	0	10.0	3000		6700	3000				6G5/6H5
6G6C	PENTODE	HTR	6.3	.15	7S-OS7	12E			180	-9	15	2.5		.18MEG	2300	1.1	10000		6G6C
6G6CT	PENTODE	HTR	6.3	.15	7S-MB9	9H			135	-6	11.5	2.0		.17MEG	2100	0.6	12000		6G6CT
6H4CT	DIODE	HTR	6.3	.15	5AF-OGT5	9H			180	-9	15	2.5		.175MEG	2300	1.1	10000		6H4CT
TUNING IND 250 THROUGH 1 MEG., TARGET 250 volts, GRID 0v FOR 90°, -22v FOR 0°																			
POWER AMP CLASS A 180 15 180 15 2.5 2.5 400 1.1 2300 1.1																			
PWR AMPLIFIER 180 15 180 15 2.5 2.5 360 0.6 2100 0.6																			
DETECTOR 100 MAX 4 MAX 1000 AT .25mc																			

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES





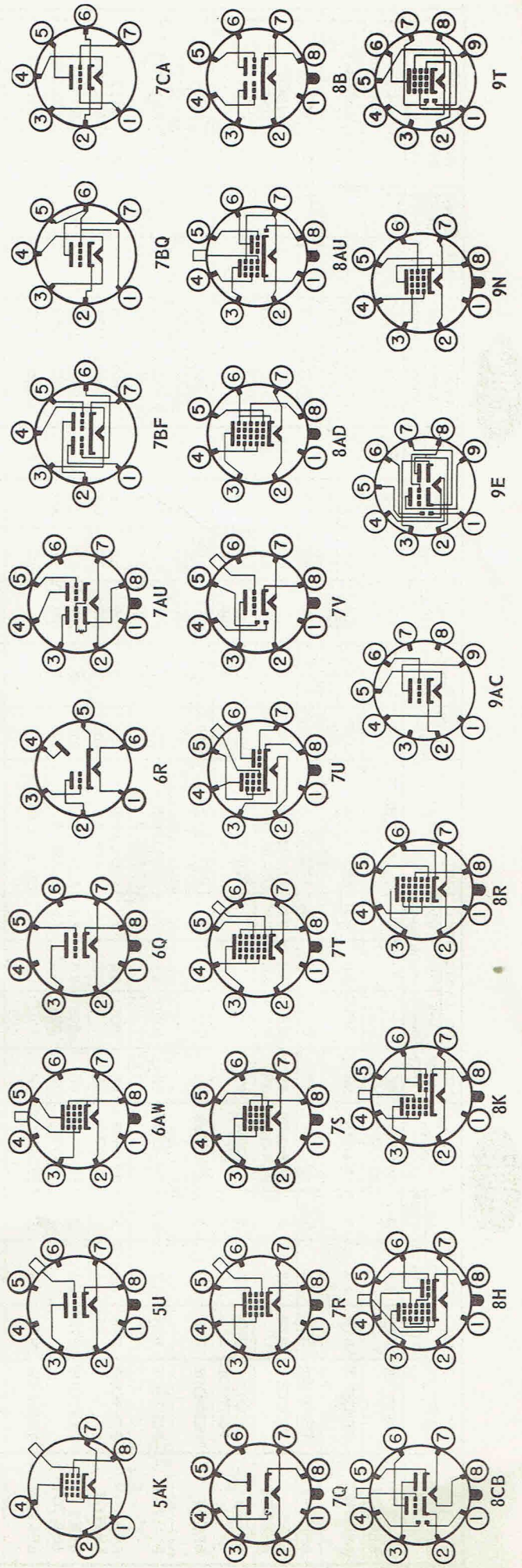
TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	COND COND mmho	MUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE	
		TYPE	VOLTS			HTR OR FIL	G-P mmfd	IN mmfd														OUT mmfd
6H6 6H6C 6H6CT	TWIN DIODE	HTR	6.3	.3	7Q-OW7 7Q-OS7 7Q-OW7	8C 12E 9E	.1PP .1PP .1PP		DETECTOR	150 MAX											6H6 6H6C 6H6CT	
6J4	TRIODE	HTR	6.3	0.4	7BQ-MB7	5B	0.24	5.5	4	VOLTAGE AMP	Rk 100		15					12000			6J4	
6J5 6J5CT	TRIODE	HTR	6.3	.3	6Q-OW6 6Q-OW6	8E 9E	3.4 3.8*	3.4 4.2*	3.6 5.0*	AMPLIFIER CLASS A	-8 0		9.0 10.0	20 20	7700 6700	2600 3000					6J5 6J5CT	
6J6	TWIN TRIODE	HTR	6.3	0.45	7BF-MB7	5B	1.6	2.2	0.4	OSCILLATOR	-1		8.5	38	6000	5300					6J6	
6J7 6J7C 6J7CT	PENTODE	HTR	6.3	.3	7R-OW7 7R-OS7 7R-OW7	8F 12F 9F	.005 .005* .005*	7 4.6* 4.6*	12 12* 12*	AMP CL A PENT CONN TRI CONN	-3 -3 -8	100 100 100	2.0 2.0 6.5	0.5 0.5	1.5MEG 1.0MEG 10500	1225 1185 1900				-7 -7	6J7 6J7C 6J7CT	
6J8C	TRIODE HEPTODE	HTR	6.3	.3	8H-OS8	12F	.01*	4.6*	10.5*	OSC-TRIODE MIXER HEPT	.05MEG -3	100	5.0 1.2	2.9	4 MEG 290C						6J8C	
6K5C	TRIODE	HTR	6.3	.3	5U-OS7	12F	2.0	2.4	3.6	AMP CL A	-3		1.1	70	50000	1400					6K5C	
6K6CT	PENTODE	HTR	6.3	.4	7S-OGT7	9H				POWER AMP CLASS A	-21 -18	250 250	25.5 32	4.0 5.5	75000 68000	2100 2300	4.5 3.4	9000 7600			6K6CT	
6K7 6K7C 6K7CT	PENTODE	HTR	6.3	.3	7R-OW7 7R-OS7 7R-OW7	8F 12F 9F	.005 .007* .005*	7 5* 4.6*	12 12* 12*	AMPLIFIER CLASS A	-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 6K7C 6K7CT	
6K8 6K8C 6K8CT	TRIODE HEXODE	HTR	6.3	.3	8K-OW8 8K-OS8 8K-OW8	8GA 12F 9GA	.03 .08* .08*	6.6 4.6* 4.8*	3.5 4.8* 4.8*	OSC-TRIODE MIXER HEX	.05MEG -3 -3	100 250 100	3.8 2.5 2.3	6.0 6.2	3000 350C 325C		(TRIODE GRID 0v)			-30 -30	6K8 6K8C 6K8CT	
6L5C	TRIODE	HTR	6.3	.15	6Q-OS6	12E	2.7*	3*	5*	AMP CL A	-9		8	17	8900	1900				-20	6L5C	
6L6 6L6C 6L6CA	BEAM PWR AMP	HTR	6.3	.9	7S-OW7 7S-OM8 7S-OM7	10C 16A 14C				POWER AMP CLASS A PP CL A PP CL AB PP CL AB 2	-18 -14 -17.5 -17.5 -22.5	250 250 270 360 360	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 6L6C 6L6CA	
6L7 6L7C	HEPTODE	HTR	6.3	.3	7T-OW7 7T-OS7	8F 12F	.001 .005*	7.5 6*	11 10*	AMP CL A MIXER	-3 -6	100 150	5.3 3.3	6.5 9.2	.6 MEG 1 MEG	1100 350C		G3 AT -3v G3 AT -15v		-15 -45	6L7 6L7C	
6M5	PENTODE	HTR	6.3	.71	9N-MB9	5P	1.0	1.0	6.2	PWR AMPLIFIER	Rk 170		36	5.2	.04MEG	10000	3.9	7000			6M5	
6M8CT	DI-TRI PENTODE	HTR	6.3	0.6	8AU-OGT8	9L	2.5 0.015	3.7 5.2	4.3 1.0	CL A TRIODE CL A PENTODE	-1 -3		0.5 8.5	2.7	91000 0.2MEG	1100 1900				-35	6M8CT	
6N4	TRIODE	HTR	6.3	0.2	7CA-MB7	5A	2.3	3.1	0.55	VOLTAGE AMP	-3.5		12	32	6000						6N4	
6N5	ELEC RAY	HTR	6.3	0.15	6R-SS6	12B				TUNING IND	135 THROUGH 0.25 MEG, TARGET 135 volts, GRID 0v FOR 90°, -12v FOR 0°		8								6N5	
6N6G	DUO TRI	HTR	6.3	.8	7AU-OM7	14C				DRIVER TRIODE OUTPUT TRIODE	0 +		45		24000	2400 4					6N6G	
6N7 6N7C	TWIN TRIODE	HTR	6.3	.8	8B-OW8 8B-OMB	8H 14C				POWER AMP CL B 2 SECT	0		35		MAX SIG PLATE CUR-70ma 10	8000					6N7 6N7C	
6N8	DI-PENT	HTR	6.3	.3	9T-MB9	5H	.002	4.0	4.6	RF-AMP	-2		5	1.75	1.6MEG	2200					6N8	
6P5C 6P5CT	TRIODE	HTR	6.3	.3	6Q-OS6 6Q-OGT6	12E 9H	2.6*	3.4*	5.5*	AMPLIFIER CLASS A	-13.5 -5		5 2.5	13.8 13.8	9500 12000	1450 1150					6P5C 6P5CT	
6P7C	TRIODE-PENTODE	HTR	6.3	.3	7U-OS8	12F	2.0* .008*	3.5* 3.5*	3.0* 12*	OSC-TRIODE MIXER PENT	-3		2.4 2.8	0.6	2 MEG 300C							6P7C

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE 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
		HTR OR FIL TYPE	HTR VOLTS			AMP	G-P mmfd	IN mmfd												
6Q5C	GAS TETRODE	HTR	6.3	0.6	6Q-OS8	12E	2.8	1.7	2.0	THYRATRON	MAX PEAK FORWARD=650 volts	MAX PEAK ANODE CURRENT=300 ma								6Q5C
6Q7	DUO-DIODE TRIODE	HTR	6.3	.3	7V-OW7	8F	1.5	5.5	5.0	AMPLIFIER CLASS A	250	1.0	70	58000	1200					6Q7
6Q7C	DIODE TRIODE	HTR	6.3	.3	7V-OS7	12F	1.3	2.7	4.5	CLASS A	100	0.8	70	58000	1200					6Q7C
6R6C	PENTODE	HTR	6.3	0.3	6AW-OS6	12F	1.6*	2.2*	5.0*	AMPLIFIER TELEVISION CIRCUITS	250	7.0	1160	0.8MEG	1450				-42.5	6R6C
6R7	DUO DI TRIODE	HTR	6.3	.3	7V-OW7	8F	2.5	5.5	4.0	AMPLIFIER CLASS A	250	9.5	16	8500	1900	.28	10000			6R7
6R7CT	TRIODE	HTR	6.3	.3	7V-OGT7	9J	2.4	1.5	1.1	DET-AMPLIFIER	250	9.5	16	8500	1900	.300	10000			6R7CT
6R8	TRIPLE DI TRIODE	HTR	6.3	.45	9E-MB9	5G	0.007	4.5	11	AMPLIFIER TELEVISION CIRCUITS	250	100	1.7							6R8
6S4	TRIODE	HTR	6.3	.6	9AC-MB9	5H				VERT AMP	250	26	16	3600	4500					6S4
6S6CT	PENTODE	HTR	6.3	0.45	5AK-OGT5	9LB	0.01	7.0	4.6	VOLTAGE AMP	250	13	3	0.35MEG	4000				-30	6S6CT
6S7	PENTODE	HTR	6.3	.15	7R-OW7	8GA	.005	6.5	10.5	AMPLIFIER CLASS A	250	8.5	2.0	1 MEG	1750				-38.5	6S7
6S7C	TRIODE	HTR	6.3	.15	7R-OS7	12F	.008*	4.4*	8.0*	AMPLIFIER CLASS A	135	3.7	0.9	1 MEG	1250				-25	6S7C
6S8CT	TRIP-DI-TRI	HTR	6.3	0.3	8CB-OGT8	9LA				DET-AMP	250	0.9	100		1100					6S8CT
6SA7	HEPTODE	HTR	6.3	.3	8R-OW8	8E	.13	9.5	12	OSC SECT	OSC GRID RES = .02 MEG	OSC GRID CUR = .5ma								6SA7
6SA7CT	TRIODE	HTR	6.3	.3	8AD-OW8	9E	.20	11.0	12	MIXER	250	100	8.5	1.0MEG	450C				-35	6SA7CT
6SB7Y	PENTA-GRID	HTR	6.3	0.3	8R-OW8	8E	0.13	9.6	9.2	CONVERTER	OSC GRID RES = 20000 OHMS	OSC GRID CURR = 0.35 ma								6SB7Y
6SB7CTY	TRIODE	HTR	6.3	0.3	8R-OGT8	9E				CONVERTER	OSC GRID RES = 1.0	OSC GRID CURR = 1 MEG	10	950C					-20	6SB7CTY

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES





TYPE	DESIGN	CATHODE		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	HTR OR FIL			G-P	IN	OUT													
6SC7	TWIN TRI	HTR	6.3	.3	8S-OW8	8E			CL A 1 SECT	250	-2		2		70	53000	1325				6SC7
6SC7CT	TWIN TRI	HTR	6.3	.3	8S-OW8	9H				250	-2	100	6.0	1.9		1.0MEG	3600			-11	6SC7CT
6SD7CT	PENTODE	HTR	6.3	.3	8N-OW8	9E	.0035	9.0	AMP CL A	250	-2	100	5.7	2.0		.25MEG	3350			-11	6SD7CT
6SE7CT	PENTODE	HTR	6.3	0.3	8N-OW8	9E	0.005	8.0	AMP CL A	250	-1.5	100	4.5	1.5		1.0MEG	3100			-5	6SE7CT
6SF5	TRIODE	HTR	6.3	.3	6AB-OW6	8E	2.6	4.2	AMPLIFIER CLASS A	250	-2	100	0.9		100	66000	1500				6SF5
6SF5CT	TRIODE	HTR	6.3	.3	6AB-OW6	9H	2.6*	4.2*	AMPLIFIER CLASS A	100	-1	100	0.4		100	85000	1150				6SF5CT
6SF7	DIODE PENTODE	HTR	6.3	.3	7AZ-OW8	8E			AMP CL A	250	-1	100	12.4	3.3	.7 MEG	2050				-35	6SF7
6SC7	PENTODE	HTR	6.3	.3	8BK-OW8	8E			AMP CL A	100	-1	100	12.0	3.4	.2 MEG	1975				-35	6SC7
6SH7CT	PENTODE	HTR	6.3	0.3	8BK-OW8	9E	0.003	8.5	AMPLIFIER CLASS A	250	-1	150	10.8	4.1	.9 MEG	4700				-14	6SH7CT
6SJ7	PENTODE	HTR	6.3	.3	8N-OW8	8E	.005	6.0	AMPLIFIER CLASS A	100	-1	100	5.3	2.1	0.35MEG	4900				-5.5	6SJ7
6SJ7CT	PENTODE	HTR	6.3	.3	8N-OW8	9E			AMPLIFIER CLASS A	100	-3	100	3.0	0.8	1.5MEG	1650				-9	6SJ7CT
6SK7	PENTODE	HTR	6.3	.3	8N-OW8	8E	.003	6.0	AMPLIFIER CLASS A	250	-3	100	2.9	0.9	0.7MEG	1575				-9	6SK7
6SK7CT	PENTODE	HTR	6.3	.3	8N-OW8	9E	.005*	6.5*	AMPLIFIER CLASS A	250	-3	100	9.2	2.6	0.8MEG	2000				-35	6SK7CT
6SL7CT	TWIN TR	HTR	6.3	0.3	8BD-OGT8	9H			CL A 1 SECT	100	-1	100	13.0	4.0	.12MEG	2350				-35	6SL7CT
6SN7CT	TWIN TR	HTR	6.3	.60	8BD-OGT8	9H	4L	3.2L	CL A 1 SECT	250	-8		9		7700	2600					6SN7CT
6SN7CTA	DOUBLE TRIODE	HTR	6.3	.6	8BD-OS8	9H	4R	3.8R	CL A 1 SECT	90	0		10		6700	3000					6SN7CT
6SQ7	DUO-DI TRIODE	HTR	6.3	.3	8Q-OW8	8E	1.8	4.2	VERT. OSC-AMP	250	-8		9		7700	2600					6SN7CTA
6SQ7CT	DUO-DI TRIODE	HTR	6.3	.3	8Q-OW8	9E			AMPLIFIER CLASS A	250	-2		0.9		91000	1100					6SQ7
6SR7	DUO-DI TRIODE	HTR	6.3	.3	8Q-OW8	8E	2.0	3.4	AMP CL A	100	-1		0.4		110000	900					6SQ7CT
6SR7CT	DUO-DI TRIODE	HTR	6.3	.3	8Q-OW8	9H	2.3*	3.5*	AMP CL A	250	-9		9.5		8500	1900					6SR7
6SS7	PENTODE	HTR	6.3	0.15	8N-OW8	8E	0.004	5.5	AMPLIFIER CLASS A	250	-3	100	9.0	2.0	1.0MEG	1850				-35	6SR7CT
6SS7CT	PENTODE	HTR	6.3	0.15	8N-OW8	9EB			AMPLIFIER CLASS A	100	-1	100	12.2	3.1	0.12MEG	1930				-35	6SS7CT
6ST7	DUO-DI TRIODE	HTR	6.3	0.15	8Q-OW8	8E	1.5	2.8	AMP CL A	250	-9		9.5		8500	1900					6ST7
6SU7CTY	DOUBLE TRIODE	HTR	6.3	0.3	8BD-OGT8	9E			VOLTAGE AMP	250	-2		2.3		1600						6SU7CTY
6SV7	DIODE-PENTODE	HTR	6.3	0.3	7AZ-OW8	8E	.004	6.5	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	8E	1.1	2.6	DET-AMP	250	-3		1.0			1200					6SZ7
6T4	TRIODE	HTR	6.3	.225	7DK-MB7	5A	1.8	2.4	UHF OSC	80	Rk		18			7000				-15	6T4
6T5	ELEC RAY	HTR	6.3	0.3	6R-SS6	9R			TUNING IND	250	-2		2.3								6T5
6T7C-6Q6G	DUO-DI TRIODE	HTR	6.3	.15	7V-OS7	12F	1.3	2.7	AMPLIFIER CLASS A	250	-3		1.2		62000	1050					6T7C-6Q6G
6T8	TRIP-DI-TRI	HTR	6.3	0.45	9E-MB9	5G	2.4	1.5	DET-AMP	135	-1.5		0.9		65000	1000					6T8
6U3	DIODE	HTR	6.3	.9	9BM-MB9	5P			DAMPER	250	-3		1.0			1200					6U3

MAX PEAK INVERSE = 4000 V. MAX I<sub>o</sub> = 180mc

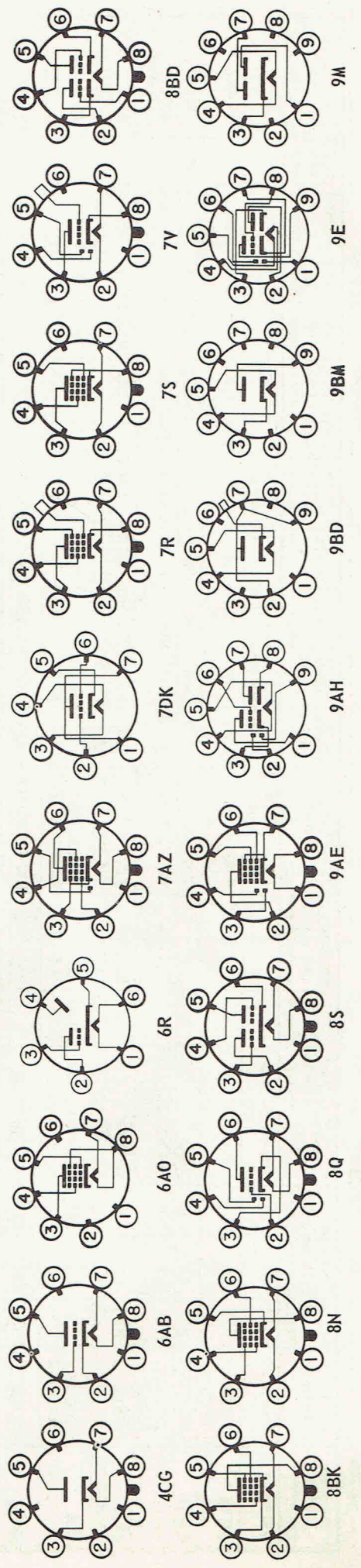
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

250 THRU 1 MEG, TARGET 250v, GRID 0v FOR MIN., -22v FOR MAX



TYPE	DESIGN	CATHODE		MAX SIZE VIEW	BASING DATA	CAPACITIES		USED AS	PLATE VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	COND mmho	MUT WATTS	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	HTR OR FIL VOLTS			C-P mmfds	IN mmfds													
6U4CT	DIODE	HTR	6.3	1.2	4CG-OGT5	9HB		DAMPER												6U4CT
6U5/6C5	ELEC RAY	HTR	6.3	.3	6R-SS6	9R		TUNING IND	250 THRU 1 MEG 100 THRU .5 MEG	TARGET 250v FOR 90° TARGET 100v FOR 90°	0v FOR 90° 0v FOR 90°	-22v FOR 0° -8v FOR 0°								6U5/6C5
6U6CT	BEAM PWR AMP	HTR	6.3	.75	7S-OGT7	9H		POWER AMP CLASS A	200 110	135 110	55 44	3 4	20000 10000	6200 5600	5.5 2.0	3000 2000				6U6CT
6U7C	PENTODE	HTR	6.3	.3	7R-OS7	12L	5*	AMP CL A	250 100	100 100	8.2 8.0	2.0 2.2	.8 MEG .25MEG	1600 1500					-50 -50	6U7C
6U8	TRIODE PENTODE	HTR	6.3	.45	9AE-MB9	5G	1.8* .01*	TRIODE SECT PENT SECT	150 250	Rk 56 Rk 68	18 10	3.5	.4 MEG	8500 5200					-12 -10	6U8
6V3	DIODE	HTR	6.3	1.75	9BD-MB9	5Q		DAMPER												6V3
6V4	DBLE DI	HTR	6.3	.6	9M-MB9	5P		FW RECTIFIER												6V4
6V5CT	BEAM PENTODE	HTR	6.3	0.45	6AO-OGT8	9H	0.6	POWER AMP	315	225	35	6.0	77000	3750	5.5	8500				6V5CT
6V6 6V6CT	BEAM POWER AMP	HTR	6.3	.45	7S-OW7 7S-OW7	8H 9H	2 TUBES	AMPLIFIER CLASS A PP CL AB	315 250 250 285	225 250 15 285	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 6V6CT
6V7C	DUO-DI TRIODE	HTR	6.3	.3	7V-OS7	12F	1.7	AMPLIFIER CLASS A	250 180	20 13.5	8 6		7500 8500	1100 975	.35 .16	20000 20000				6V7C
6V8	TRIPLE DI TRIODE	HTR	6.3	.45	9AH-MB9	5G		DET-AMPLIFIER	100 250	-1 -3	.8 1.0		54000 58000	1300 1200						6V8
6W4CT	DIODE	HTR	6.3	1.2	4CG-OGT6	9H		HW RECTIFIER												6W4CT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



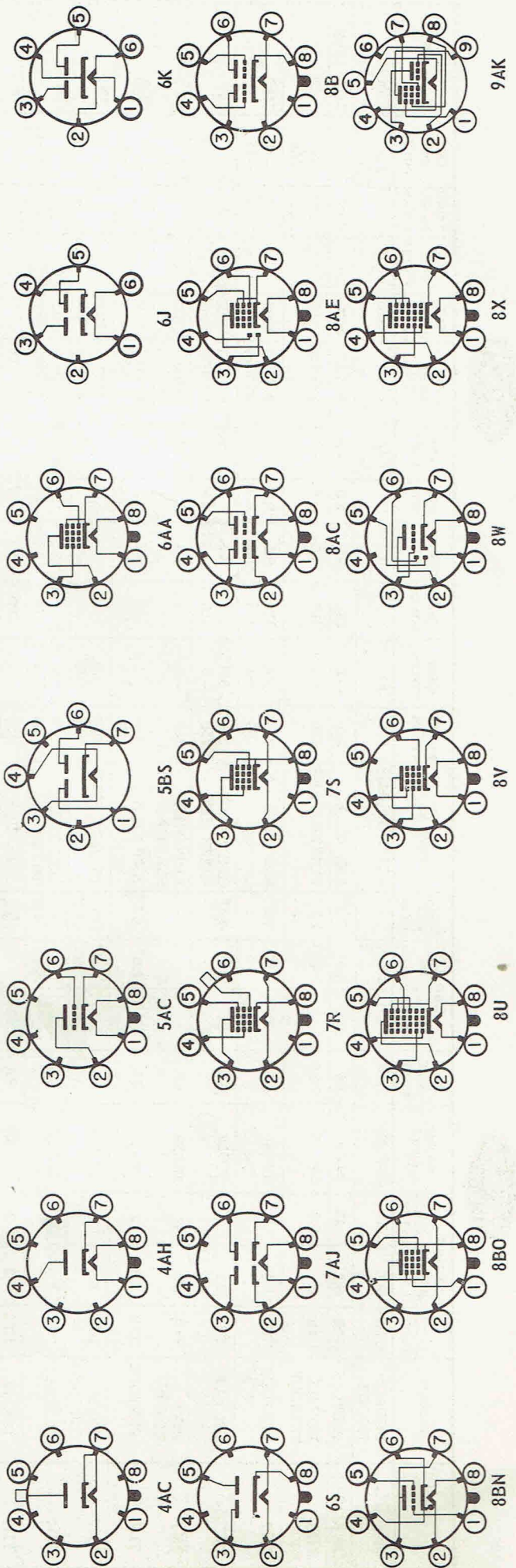




TYPE	DESIGN	CATHODE		BASING DATA	MAX VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	COND COND	MUT COND	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE						
		TYPE	HTR OR FIL			G-P	IN	OUT																				
6W5G	TWIN DI	HTR	6.3	.9	6S-OS6	12E			FULL WAVE RECTIFIER	325 RMS MAX COND IN 90 DC MAX 450 RMS MAX CHOKE IN 90 DC MAX												6W5G						
6W6CT	TETRODE PWR AMP	HTR	6.3	1.25	7S-OGT7	9H			AMPLIFIER CLASS A	135	-9.5	135	58	2.8	215	24000	9000	3.3	2000			6W6CT						
6W7C	PENTODE	HTR	6.3	.15	7R-OS7	12F			AMP CL A	250	-3	100	2.0	0.5		1.5MEG	1225				-7	6W7C						
6X4	DOUBLE DIODE	HTR	6.3	0.6	SBS-MB7	5J			FW RECTIFIER	MAX PEAK INVERSE=1250 volts, MAX I <sub>o</sub> =70 ma																		6X4
6X5 6X5CT	TWIN DIODE	HTR	6.3	.6	6S-OW6 6S-OGT6	8H 9H			FULL WAVE RECTIFIER	325 RMS MAX COND IN 70 DC MAX 450 RMS MAX CHOKE IN 70 DC MAX												6X5 6X5CT						
6X8	TRIODE PENTODE	HTR	6.3	.45	9AK-MB9	5G	1.4 .06	2.6 4.5	TRIODE SECT PENTODE SECT	100 Rk 100 250 Rk 200		150	8.5 7.7	1.6	40	.65MEG 4600	5800 4600				-10 -8	6X8						
6Y3G	DIODE	HTR	6.3	0.7	4AC-OS6	12F			HW RECTIFIER	MAX PEAK INVERSE=14000 volts, MAX I <sub>o</sub> =7.5 ma																		6Y3G
6Y5	TWIN DIODE	HTR	6.3	.8	6J-SS6	12E			FULL WAVE RECTIFIER	325 RMS MAX COND IN 60 DC MAX 450 RMS MAX CHOKE IN 60 DC MAX												6Y5						
6Y6G	BEAM PWR AMP	HTR	6.3	1.25	7S-OM7	14C			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						
6Y7C	TWIN TRIODE	HTR	6.3	.6	8B-OS8	12E			CL B AMP 2 SECTIONS	250 180	0 0		10.6 7.6	NO SIG NO SIG				8 5.5	14000 7000			6Y7C						
6Z5	TWIN DIODE	HTR	12.6 or 6.3	.4 .8	6K-SS6	12B			FULL WAVE RECTIFIER	325 RMS MAX COND IN 60 DC MAX 450 RMS MAX CHOKE IN 60 DC MAX												6Z5						
6Z7C	TWIN TRIODE	HTR	6.3	.3	8B-OS8	12E			CL B AMP 2 SECTIONS	180 135	0 0		8.4 6.0	NO SIG NO SIG				4.2 2.5	12000 9000			6Z7C						
6ZY5G	TWIN DI	HTR	6.3	.3	6S-OS6	12E			FULL WAVE RECTIFIER	325 RMS MAX COND IN 40 DC MAX 450 RMS MAX CHOKE IN 40 DC MAX												6ZY5G						
7A4	TRIODE	HTR	6.3	.3	5AC-L8	9A	4	3.4	AMPLIFIER CLASS A	250 90	-8 0		9 10		20 20	7700 6700	2600 3000					7A4						
7A5	PENTODE	HTR	6.3	.75	6AA-L8	9B			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	9A	.05PP		DETECTOR	150 RMS MAX			8 DC MAX									7A6						
7A7	PENTODE	HTR	6.3	.3	8V-L8	9A	.005	6.0	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	9A	.15	7.5	OSC SECT MIXER	250S 250	.05MEG -3	100	4.2 3.0	3.2		GRID #2 RES .7 MEG	.02 MEG 550C				-30	7A8						
7AB7	PENTODE	HTR	6.3	0.15	8BO-L8	9AB	.06	3.5	VOLTAGE AMP	250	-2	100	4.0	1.3		0.5MEG	1800				-9	7AB7						
7AD7	PENTODE	HTR	6.3	0.6	8V-L8	9B	.03	11.5	VOLTAGE AMP	300	Rk 68	150	28	7.0		0.3MEG	9500					7AD7						
7AF7	DOUBLE TRIODE	HTR	6.3	0.3	8AC-L8	9A	2.3	2.2	VOLTAGE AMP	100	0		10.8	17			2600					7AF7						
7AG7	PENTODE	HTR	6.3	0.15	8V-L8	9A	0.005	7.0	VOLTAGE AMP	250	Rk250	250	6.0	2.0		>1MEG	4200				-10	7AG7						
7AH7	PENTODE	HTR	6.3	0.15	8V-L8	9A	0.005	7.0	VOLTAGE AMP	250	Rk250	250	6.8	1.9		1MEG	3300				-20	7AH7						
7AJ7	PENTODE	HTR	6.3	0.3	8V-L8	9A	0.007	6.0	VOLTAGE AMP	250	-3.0	100	2.2	0.7		>1MEG	1575				-8.5	7AJ7						
7AK7	PENTODE	HTR	6.3	0.8	8V-L8	9E	0.7	12	GATING TUBE	150	0	90	40	21		11500	6500					7AK7						
7B4	TRIODE	HTR	6.3	.3	5AC-L8	9A	1.6*	3.6*	AMP CL A	100 250	-1 -2		0.5 0.9		100 100	85000 66000	1175 1500					7B4						
7B5	PENTODE	HTR	6.3	.4	6AA-L8	9B			POWER AMP CLASS A	315 100	-24 -7	250 100	25.5 9.0	4.0 1.6		75000 .1 MEG	2100 1500	4.5 .35	9000 12000			7B5						

TYPE	DESIGN	CATHODE		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	HTR OR FIL			G-P	IN	OUT														
7B6	DUO-DI TRIODE	HTR	6.3	.3	8W-L8	9A	1.5	3.0	3.0	AMPLIFIER CLASS A	250	-2	0.9		100	91000	1100				7B6	
7B7	PENTODE	HTR	6.3	.15	8V-L8	9A	.007	5.0	6.0	AMP CL A	250	-3	8.5	1.7	100	.7 MEG	1700			-40	7B7	
7B8	HEPTODE	HTR	6.3	.3	8X-L8	9A	.2	10.0	9.0	OSC SECT MIXER	250S 100 250 100	.05MEG .05MEG -3 -1.5	4.0 2.0 3.5 1.1	2.7 2.7 1.3	100 50	GRID #2 RES .02 MEG .36MEG .6 MEG	550C 360C			-35 -20	7B8	
7C4/1203A	DIODE	HTR	6.3	0.150	4AH-L8	9A	0.8	2.2	3.0	DETECTOR	117 MAX		5 MAX									7C4/1203A
7C5	BEAM PWR AMP	HTR	6.3	.45	6AA-L8	9B				AMPLIFIER CLASS A PUSH-PULL PP CL AB	315 250 250 285	-13 -12.5 -15 -19	34 45 70 70	2.2 4.5 5.0 4.0		77000 52000 60000 65000	3750 4100 3750 3600	8500 5000 10000 8000			7C5	
7C6	DUO-DI TRIODE	HTR	6.3	.15	8W-L8	9A	1.4	2.4	3.0	AMPLIFIER CLASS A	250 100	-1 0	1.3 1.0		100 85	.1 MEG .1 MEG	1000 850					7C6
7C7	PENTODE	HTR	6.3	.15	8V-L8	9A	.007*	5.5*	6.5*	AMPLIFIER CLASS A	250	-3	2.0	0.5		2 MEG	1300			-7	7C7	
7E5/1201	TRIODE	HTR	6.3	.150	8BN-L8	9A	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	9A	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	9A	.005*	4.6*	4.6*	AMPLIFIER CLASS A	250 100	-3 -1	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	9A				CL A 1 SECT	250	-2	2.3		70	44000	1600				7F7	

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



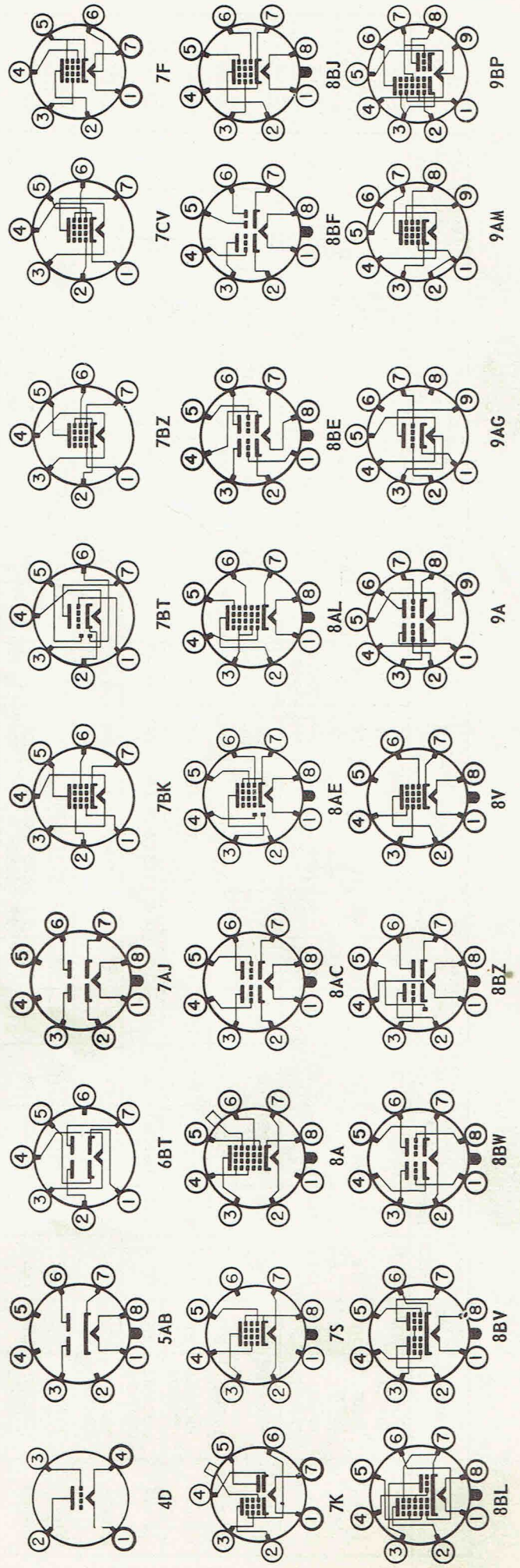


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	HTR OR FIL			G-P	IN	OUT													
7R8	DOUBLE TRIODE	HTR	6.3	0.3	8BW-L8	9A	1.2	2.8	1.4	VOLTAGE AMP	250	Rk 500	6.0	48		3300			Each Unit	7F8	
7C7/1232	PENTODE	HTR	6.3	.45	8V-L8	9A	.007*	9.0*	7.0*	AMP CL A	250	-2	100	2.0		.8 MEG	4500		-6	7C7/1232	
7C8	DOUBLE TETRODE	HTR	6.3	0.3	8BV-L8	9A	0.15	3.4	2.6	VOLTAGE AMP	250	-2.5	100	0.8		.225MEG	2100		Each Unit	7C8	
7H7	PENTODE	HTR	6.3	.3	8V-L8	9A	.007*	8.0*	7.0*	AMP CL A	250	-2.5	150	3.5		.8 MEG	3800		-19	7H7	
7J7	TRI HEX	HTR	6.3	.3	8BL-L8	9A	.01*	5.5*	7.5*	OSC-TRIODE MIXER HEX	250S	.05MEG	5.4	2.9		1.5MEG	300C		-20	7J7	
7K7	DUO-DE	HTR	6.3	.3	8BF-L8	9A				AMPLIFIER CLASS A	250	-2	2.3	70		44000	1600			7K7	
7L7	PENTODE	HTR	6.3	.3	8V-L8	9A	.01*	8.0*	6.5*	AMP CL A	250	-1.5	100	1.5		1 MEG	3100		-5	7L7	
7N7	TWIN TRIODE	HTR	6.3	.6	8AC-L8	9B	3.0L* 3.0R*	2.0L* 2.9R*	2.4R*	CL A 1 SECT	250	-8	9	20		7700	2600			7N7	
7Q7	HEPTODE	HTR	6.3	.3	8AL-L8	9A	.2*	9.0*	9.0*	OSC SECT MIXER	OSC GRID RES	OSC GRID CUR	OSC GRID CUR	OSC GRID CUR		1.0MEG	550C		-35	7Q7	
7R7	DUO-DI PENTODE	HTR	6.3	.3	8AE-L8	9A	.004	5.6	5.3	AMP CL A	250	-1	100	1.7		1.0MEG	3200		-20	7R7	
7S7	TRI HEX	HTR	6.3	0.30	8BL-L8	9A	0.04	5.5	9.0	OSC-TRIODE MIXER HEX	250S	.05MEG	5.0	2.2		2 MEG	600C		-16	7S7	
7T7	PENTODE	HTR	6.3	0.3	8V-L8	9A	0.005	7.5	5.5	AMP CL A	250	-1	150	4.1		0.9MEG	4900		-5.5	7T7	
7V7	PENTODE	HTR	6.3	0.45	8V-L8	9A	0.004	9.5	6.5	HIGH FREQ AMPLIFIER	300	-2	150	9.6		.3 MEG	5800		-6	7V7	
7W7	PENTODE	HTR	6.3	0.45	8BJ-L8	9A	0.0025	9.5	7.0	HIGH FREQ AMPLIFIER	300	-2	150	10.0		.3 MEG	5800		-6	7W7	
7X7	DOUBLE DI-TRI	HTR	6.3	0.3	8BZ-L8	9B				DET-AMP	250	-1	1.9	100			1500		-14	7X7	
7X6	DBLE DI	HTR	6.3	1.2	7AJ-L8	9B				FW RECTIFIER	MAX PEAK INVERSE = 700 V; MAX Io = 150ma										7X6
7Y4	TWIN DI	HTR	6.3	.5	5AB-L8	9A				F W RECT	325 RMS MAX COND IN 60 DC MAX 450 RMS MAX CHOKE IN 60 DC MAX										7Y4
7Z4	TWIN DI	HTR	6.3	0.90	5AB-L8	9B				F W RECT	325 RMS MAX COND IN 100 DC MAX 450 RMS MAX CHOKE IN 100 DC MAX										7Z4
9BM5	BM PENT	HTR	9.5	.3	7BZ-MB7	5J	.5	8.0	5.5	POWER AMP	250	-6	250	3		60000	7000	3.5	7000	9BM5	
9BW6	BM PENT	HTR	9.45	.3	9AM-MB9	5H				POWER AMP	250	-13	250	34		77000	3750	5.5	8500	9BW6	
10	TRIODE	FIL	7.5	1.25	4D-SM4	16B	7	4	3	POWER AMP CLASS A	425	-39	18	8		5000	1600	1.6	10200	10	
12A	TRIODE	FIL	5.0	.25	4D-SM4B	14D	7.5	4.0	3.0	AMPLIFIER CLASS A	180	-13.5	7.7	8.5		4700	1800	.285	10650	12A	
12A4	TRIODE	HTR	12.6#	.3	9AG-MB9	5H	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	12B				POWER AMP CLASS A	180	-25	180	45		35000	2400	3.4	3800	12A5	

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

TYPE	DESIGN	CATHODE		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			OR FIL.	AMPS	G-P mmfd													
12A6CT	BEAM PWR AMP	HTR	12.6	0.15	7S-OGT7	9H	0.6	9.0	9.0	250	-12.5	250	30	3.5		3000	3.0	7500		12A6CT	
12A7	DIODE PENTODE	HTR	12.6	.3	7K-SS7	12H				125 RMS MAX 135	-13.5	135	30 DC MAX 9	2.5	100		.55	13500		12A7	
12A8CT	HEPTODE	HTR	12.6	.15	8A-OW8	9F	2.6*	9.5*	12*	250S 100	.05MEG .05MEG		4.0							12A8CT	
12AH7CT	TWIN TR	HTR	12.6	.150	8BE-OGT8	9D	3.0L 2.2R	2.9L 3.2R	2.6L 3.0R	250	-9	16	12	16	16	6600 10300	2400 1550			-30.0 -8.5	12AH7CT
12AH8	TRIODE HEPTODE	HTR	12.6#	.15	9BP-MB9	5H	1.7 5.0		.7 8.0	100	.047MEG		2.6	4.4		550C				-22	12AH8
12AL5	DOUBLE DIODE	HTR	12.6	0.15	6BT-MB7	5A			3.2	MAX PEAK INVERSE=330 volts, MAX Io=9 mdc PER PLATE											12AL5
12AQ5	BM PENT	HTR	12.6	.225	7BZ-MB7	5J	.35	8.3	8.2	180 250	-8.5 -12.5	180 250	29 45	3 4.5		58000 52000	2.0 4.5	5500 5000			12AQ5
12AS5	BM PENT	HTR	12.6	.4	7CV-MB7	5J	.6	12	6.2	150	-8.5	110	35	2		5600	2.2	4500			12AS5
12AT6	DOUBLE DI-TRI	HTR	12.6	0.15	7BT-MB7	5B	2.1	2.3	1.1	250 100	-3 -1	70 70	1.0 0.8			1200 1300					12AT6
12AT7	DOUBLE TRIODE	HTR	12.6 #	0.15	9A-MB9	5G	1.45	2.5	0.45	250 100	-2 -1	55 54	10 3.7			5500 4000				-12 -6	12AT7
12AU6	PENTODE	HTR	12.6	0.15	7BK-MB7	5B	.0035	5.5	5.0	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

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES





TYPE	DESIGN	CATHODE		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	HTR OR FIL VOLTS			G-P mmf/ds	IN mmf/ds	OUT mmf/ds													
12AU7	DOUBLE TRIODE	HTR	12.6 #	0.15	5G	1.5	1.6	0.5	VOLTAGE AMP	250	-8.5	10.5	17			2200					12AU7
12AV6	DOUBLE DI-TRI	HTR	12.6	0.15	5B	2.1	2.3	0.9	DET-AMP	250	0	11.8	19.5			3100					12AV6
12AV7	TWIN TRIODE	HTR	12.6#	.225	5G	1.9	3.1	.5	AMP CL A	100	Rk120	9	37			6100			-9		12AV7
12AW6	PENTODE	HTR	12.6	0.15	5B	0.025	6.5	1.5	VOLTAGE AMP	250	Rk200	150	2.0			8500			-8		12AW6
12AX4CT	DIODE	HTR	12.6	.6	9H				DAMPER	100	Rk100	100	1.6			5000			-5		12AX4CT
12AX7	DOUBLE TRIODE	HTR	12.6 #	0.15	5G	1.7	1.6	0.46	VOLTAGE AMP	250	-2	1.2	100			1600					12AX7
12AY7	DOUBLE TRIODE	HTR	12.6 #	0.15	5G	1.3	1.3	0.6	VOLTAGE AMP	250	-4	3.0	40			1250					12AY7
12AZ7	TWIN TRIODE	HTR	12.6#	.225	5G	1.9	3.1	.5	AMP CL A	100	Rk100	3.7	60			4000			-5		12AZ7
12B4	TRIODE	HTR	12.6#	.3	5H	4.3	6.4	7.0	VERT. AMP	250	Rk200	10	60			5500			-12		12B4
12B8CT	TRIODE PENTODE	HTR	12.6	.3	9L	2.3	5.0	6.3	AMP TRIODE CLASS A	100	-1	0.6	110			1500			-2.5		12B8CT
12BA6	PENTODE	HTR	12.6	0.15	5B	.0035	5.5	5.0	VOLTAGE AMP	250	Rk68	100	4.2			4400			-20		12BA6
12BA7	PENTA-GRID	HTR	12.6	0.15	5H	0.19	9.5	8.3	CONVERTER	250	-1	100	10			4300			-20		12BA7
12BD6	PENTODE	HTR	12.6	0.15	5B	0.004	4.3	5.0	VOLTAGE AMP	250	-1	100	10.2			950C			-20		12BD6
12BE6	PENTA-GRID	HTR	12.6	0.15	5B	0.3	7.2	8.6	CONVERTER	250	-3	9	3			2000			-35		12BE6
12BF6	DOUBLE-DI TRI	HTR	12.6	0.15	5B	2	1.8	1.4	DET-AMP	250	-1.5	100	7.1			2550			-30		12BF6
12BH7	TWIN TRIODE	HTR	12.6#	.3	5H	2.4	3.3	.8	VERT. AMP	250	-1.5	100	7.3			455C			-30		12BH7
12BK6	DBLE DI TRIODE	HTR	12.6	.15	5J				DET-AMP	100	-1	.5	100			1250					12BK6
12BN6	GATED BM	HTR	12.6	.15	5J				DISCRIMINATOR	80	-2	1.2	100			1600					12BN6
12BT6	DBLE DI TRIODE	HTR	12.6	.15	5J				DET-AMP	100	-1	.8	70			1300					12BT6
12BU6	DBLE DI TRIODE	HTR	12.6	.15	5J				DET-AMP	250	-3	1.0	70			1200					12BU6
12BY7	PENTODE	HTR	12.6#	.3	5H	.055	11.1	3	VIDEO AMP	250	Rk68	150	6			1900	.300	10000			12BY7
12BZ7	TWIN TRIODE	HTR	12.6#	.3	5H	2.5	6.5	.7	AMP CL A	250	-2	2.5	100			3200					12BZ7

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

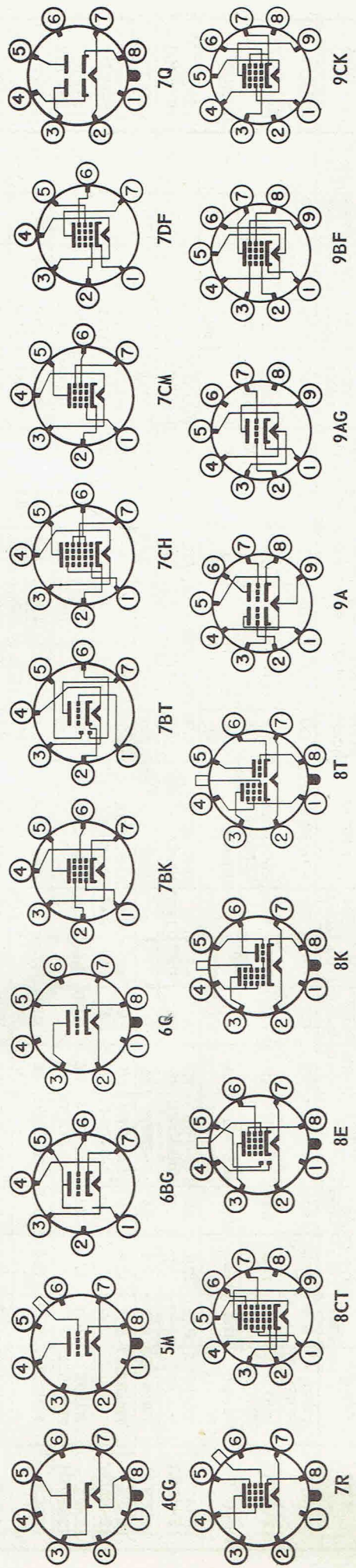
MAX PEAK POS. PULSE PLATE = 1000 V; MAX PLATE DISS. = 6 WATTS

MAX PEAK POS. PULSE PLATE = 1500 V; MAX PLATE DISS. = 3.5 WATTS

Input sig. center freq. = 10.7 Mc; Freq. Dev. = ± 75 kc

TYPE	DESIGN	CATHODE		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	
		HTR OR FIL	VOLTS			G-P	IN	OUT														
12C3	DUO-DI PENTODE	HTR	12.6	.15	8F	.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	12C3	
12CM6	BM PENT	HTR	12.6	.225	5H	.7	8	8.5	VERT. AMP	MAX PEAK POS. PLATE = 2000 V; MAX PEAK I <sub>k</sub> = 120ma MAX PLATE DISS. = 8 WATTS											12CM6	
12E5CT	TRIODE	HTR	12.6	0.15	9E	2.8	3.8	2.6	AMP CL A	250 100	-13.5 -5		5.0 2.5		13.8 12000	1450 1150						12E5CT
12F5CT	TRIODE	HTR	12.6	.15	9J	2.0*	6*	12*	AMPLIFIER CLASS A	250 100	-2 -1		0.9 0.4	100 100	66000 85000	1500 1150						12F5CT
12G4	TRIODE	HTR	12.6#	.15	5J	3.4	2.4	.9	AMP CL A	90 250	0 -8		10 9		20 20	3000 2600				-7 -18	12G4	
12H6	DUO DI	HTR	12.6	0.15	8C	3.0	3.4	0.10	DETECTOR	150 MAX											12H6	
12J5CT	TRIODE	HTR	12.6	.15	9H	3.8*	4.2*	5.0*	AMPLIFIER CLASS A	250 90	-8 0		9.0 10.0	20 20	7700 6700	2600 3000						12J5CT
12J7CT	PENTODE	HTR	12.6	.15	9F	.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	12J7CT	
12K7CT	PENTODE	HTR	12.6	.15	9F				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	12K7CT	
12K8CT	TRIODE HEXODE	HTR	12.6	.15	9GA	.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	12K8CT		

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



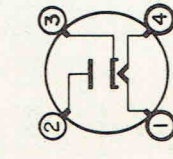


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE	
		HTR OR FIL TYPE	HTR VOLTS			G-P mmfds	IN mmfds	OUT mmfds														
12L8CT	TWIN PENTODE	HTR	12.6	0.15	8BU-OGT8	9H	0.7	5.0	6.0	POWER AMP CLASS A	180	-9	13	2.4	0.16MEG	2150	1.0	10000			12L8CT	
12Q7CT	DUO-DI TRIODE	HTR	12.6	.15	7V-OW7	9F	1.6*	2.2*	5*	AMPLIFIER CLASS A	250	-3	1.0	70	58000	1200					12Q7CT	
12S8CT	TRIP-DI TRI	HTR	12.6	0.15	8CB-OGT8	9LA				DET-AMP	250	-2	0.9	100	1100	900					12S8CT	
12SA7	HEPTODE	HTR	12.6	.15	8R-OW8	8E	.13	9.5	12	OSC SECT. MIXER	250	-2	0.2	8.5	OSC GRID CUR	5ma					12SA7	
12SA7CT		HTR	12.6	.15	8AD-OW8	9E	.20	11.0*	12.0*		250	-2	3.5	8.5	1.0MEG	450C				-35	12SA7CT	
12SC7	TWIN TRI	HTR	12.6	.15	8S-OW8	8E				AMP CL A 1 SECT	250	-2	2	70	53000	1325					12SC7	
12SF5	TRIODE	HTR	12.6	.15	6AB-OW6	8E	2.6	4.2	3.8	AMPLIFIER CLASS A	250	-2	0.9	100	66000	1500					12SF5	
12SF5CT		HTR	12.6	.15	6AB-OGT8	9H	2.6*	4.2*	3.8*		100	-1	0.4	100	85000	1150					12SF5CT	
12SF7	DIODE	HTR	12.6	0.15	7AZ-OW8	8E	0.004	5.5	6.5	AMP CL A	250	-1	12.4	3.3	0.7MEG	2050					12SF7	
12SF7CT	PENTODE	HTR	12.6	0.15	7AZ-OGT8	9E					100	-1	100	3.4	0.2MEG	1975				-35	12SF7CT	
12SG7	PENTODE	HTR	12.6	0.15	8BK-OW8	8E	0.003	8.5	7.0	AMP CL A	250	-1	11.8	4.4	0.9MEG	4700					12SG7	
12SH7	PENTODE	HTR	12.6	0.15	8BK-OW8	8E	0.003	8.5	7.0	AMP CL A	250	-1	100	8.2	0.25MEG	4100				-5.5	12SH7	
12SJ7	PENTODE	HTR	12.6	.15	8N-OW8	8E	.005	6.0	7.0	AMPLIFIER CLASS A	250	-3	3.0	0.8	1.5MEG	1650				-9	12SJ7	
12SJ7CT		HTR	12.6	.15	8N-OW8	9E					100	-3	2.9	0.9	0.7MEG	1575				-9	12SJ7CT	
12SK7	PENTODE	HTR	12.6	.15	8N-OW8	8E	.003	6.0	7.0	AMPLIFIER CLASS A	250	-3	9.2	2.6	0.8MEG	2000					12SK7	
12SK7CT		HTR	12.6	.15	8N-OW8	9E	.005	6.5	7.5		100	-1	13.0	4.0	.12MEG	2350				-35	12SK7CT	
12SL7CT	TWIN TRI	HTR	12.6	0.15	8BD-OGT8	9H				CL A 1 SECT	250	-2	2.3	70	44000	1600					12SL7CT	
12SN7CT	TWIN TRI	HTR	12.6	0.3	8BD-OGT8	9H	4L	3.2L	3.4L	CL A 1 SECT	250	-8	9	20	7700	2600					12SN7CT	
12SQ7	DUO-DI TRIODE	HTR	12.6	.15	8Q-OW8	8E	1.8	4.2	3.4	AMPLIFIER CLASS A	250	-2	0.9	100	91000	1100					12SQ7	
12SQ7CT		HTR	12.6	.15	8Q-OW8	9E					100	-1	0.4	100	110000	900					12SQ7CT	
12SR7	DUO-DI TRIODE	HTR	12.6	.15	8Q-OW8	8E	2.3*	3.5*	3.8*	AMP CL A	250	-9	9.5	16	8500	1900					12SR7	
12SR7CT		HTR	12.6	.15	8Q-OW8	9H					250	-9	9.5	16	8500	1900					12SR7CT	
12SW7	DBLE-DI TRI	HTR	12.6	0.15	8Q-OW8	8E	2.4	3.0	2.8	DET-AMP	250	-9	9.5	16	8500	1900					12SW7	
12SX7CT	DOUBLE TRIODE	HTR	12.6	0.3	8DB-OGT8	9H	3.6	2.8	1.2	VOLTAGE AMP	250	-8	9.0	20	2600	2600					12SX7CT	
12SY7	PENTA-GRID	HTR	12.6	0.15	8R-OW8	8E	0.13	9.5	12	CONVERTER	250	-2	3.5	8.5	1 MEG	450C					12SY7	
12SY7CT		HTR	12.6	0.15	8AD-OGT8	9E	0.2	11	12		28	-1	0.5	1.8		250C					12SY7CT	
12V6CT	PENTODE	HTR	12.6	.225	7S-OGT7	9H	.7	9	7.5	POWER AMP	180	-8.5	29	3	50000	3700	2.0	5500			12V6CT	
											250	-12.5	45	4.5	50000	4100	4.5	5000				
											315	-13	34	2.2	80000	3750	5.5	8500				
12X4	DBLE DI	HTR	12.6	.3	5BS-MB7	5J				FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX Io = 70ma DC										12X4	
12Z3	DIODE	HTR	12.6	.3	4G-SS4	12B				H W RECT	235 RMS MAX										12Z3	
14A4	TRIODE	HTR	12.6	0.15	5AC-L8	9A	4.0	3.4	3.0	AMP CL A	250	-8	9	20	7700	2600					14A4	
14A5	PENTODE	HTR	12.6	0.15	6AA-L8	9B				POWER AMP CLASS A	250	-12.5	250	3.5	50000	3000					14A5	
14A7/12B7	PENTODE	HTR	12.6	.15	8V-L8	9A	.005*	5.5*	7.0*	AMP CL A	250	-3	9.2	2.6	.8 MEG	2000					14A7/12B7	
14AF7	TWIN TRI	HTR	12.6	0.150	8AC-L8	9A	2.3L	2.2L	1.6L	CL A 1 SECT	250	-10	9.0	16	7600	2100					-35	14AF7
							2.3R	2.2R	1.6R		100	0	10.8	17	6500	2600					-35	

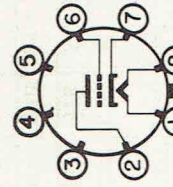
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

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 mmo	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	VOLTS			AMPS	G-P mmmfds	IN mmmfds													
14B6	DUO-DI TRIODE	HTR	12.6	0.15	8W-L8	9A			DETECTOR AMPLIFIER	250	-2		0.9		100	91000	1100				14B6
14B8	HEPTODE	HTR	12.6	0.15	8X-L8	9A	0.20	10	OSC SECT MIXER	250S 250	.05MEG -3	100	4.0	2.7	65000	3600				-35	14B8
14C5	BEAM PWR AMP	HTR	12.6	0.225	6AA-L8	9B			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	9A	0.007	6.0	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	9A			AMP CL A	250 100	-9 -3		9.5 3.9		8500 11000	1900 1500					14E6
14E7	DUO-DI PENTODE	HTR	12.6	0.15	8AE-L8	9A	0.005	4.6	DETECTOR AMPLIFIER	250 100	-3 -1	100 100	7.5 10	1.6 2.7	0.7MEG 0.15MEG	1300 1600				-42.5 -36	14E7
14F7	TWIN TRI	HTR	12.6	0.15	8AC-L8	9A			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	VOLTAGE AMP	250	Rk 500		6.0	48		3300					14F8
14H7	PENTODE	HTR	12.6	.15	8V-L8	9A	.007*	8.0*	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	9A	0.01	5.5	OSC-TRIODE MIXER HEX	250S 250	.05MEG -3	100	5.4 1.3	2.9	TRIODE PLATE RESISTOR 1.5MEG	300C					14J7
14N7	TWIN TRI	HTR	12.6	0.30	8AC-L8	9B	3.0R 3.0L	2.9R 3.4L	CL A 1 SECT	250 90	-8 0		9 10		7700 6700	2600 3000					14N7

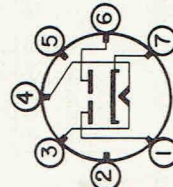
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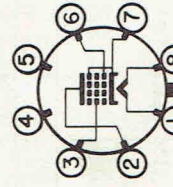
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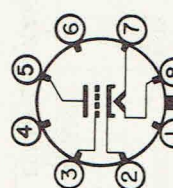
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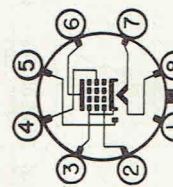
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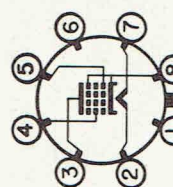
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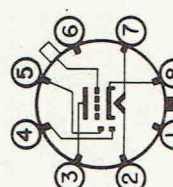
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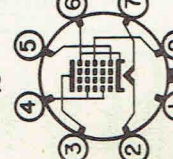
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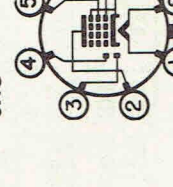
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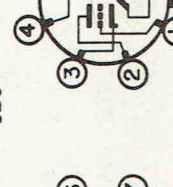
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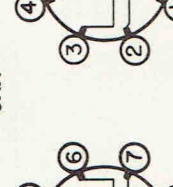
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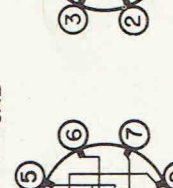
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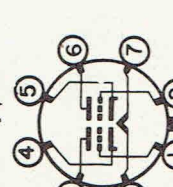
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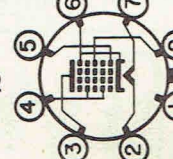
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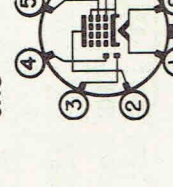
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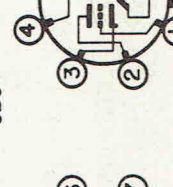
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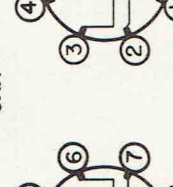
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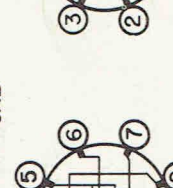
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8F



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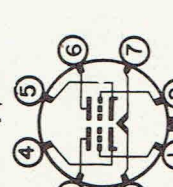
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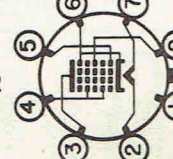
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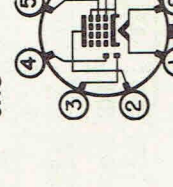
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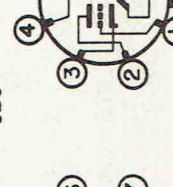
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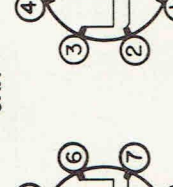
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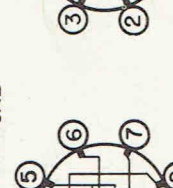
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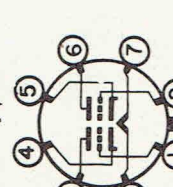
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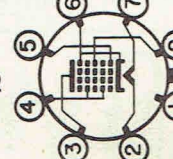
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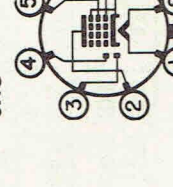
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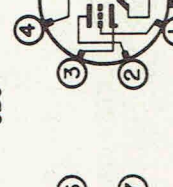
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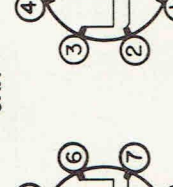
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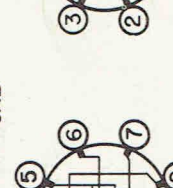
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8X



8Y



8Z



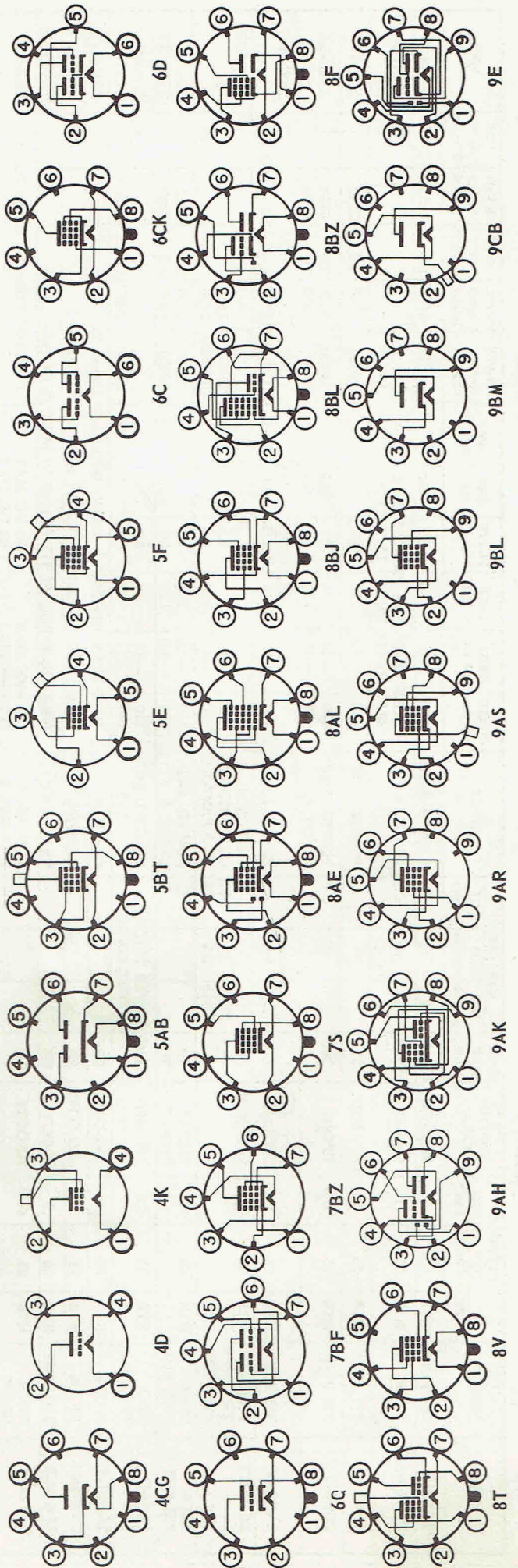


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE		
		TYPE	HTR OR FIL VOLTS/AMPS			C-P mmfds	IN mmfds														OUT mmfds	
14Q7	HEPTODE	HTR	12.6	0.15	8AL-L8	9A	.2	9.0	9.0	9.0	OSC MIXER	OSC GRID RESIS 250 100	OSC GRID CUR 1.0MEG 550C	OSC	—	—	—	—	—	14Q7		
14R7	DUO-DI PENTODE	HTR	12.6	0.150	8AE-L8	9A	0.004	3.6	5.3	AMP CL A	AMP CL A	100 100	5.7 5.5	1.7 2.0	1.0 MEG 0.35MEG	3200 3000				14R7		
14S7	TRI HEX	HTR	12.6	0.15	8BL-L8	9A	0.02	5.0	8.0	OSC-TRIODE MIXER	OSC-TRIODE MIXER	250 250	5.0 1.8	3.0	TRIODE PLATE RESIS 1.25MEG 525C	.02 MEG				14S7		
14V7	PENTODE	HTR	12.6	0.225	8V-L8	9A	0.004	9.5	6.5	HI FREQ AMP	HI FREQ AMP	300	9.6	3.9	.3 MEG	5800				14V7		
14W7	PENTODE	HTR	12.6	0.225	8B1-L8	9A	0.0025	9.5	7.0	AMP CL A	AMP CL A	300 300	10.0 THRU .04 MEG	3.9	.3 MEG	5800				14W7		
14X7	DBLE-DI TRI	HTR	12.6	0.15	8BZ-L8	9B				DET-AMP	DET-AMP	250 100	1.9 1.2	100 85		1500 1000				14X7		
14Y4	TWIN DI	HTR	12.6	0.3	5AB-L8	9B				F W RECT	F W RECT	325 RMS MAX COND 450 RMS MAX CHOKE IN 60 DC MAX			TUBE DROP 20v AT 60ma DC					14Y4		
15	PENTODE	HTR	2.0	.22	5F-SS5	12H	.01*	2.4	7.8	AMPLIFIER CLASS A	AMPLIFIER CLASS A	135 67.5	1.85 1.85	0.3 .3	.8 MEG .63MEG	750 710				15		
15A6	PENTODE	HTR	15	.3	9AR-MB9	5P	.1	10	7	VIDEO AMP	VIDEO AMP	180	36	4.6	.1MEG	10000				15A6		
16A5	PENTODE	HTR	16.5	.3	9BL-MB9	5P	1	11	5.9	POWER AMP	POWER AMP	200	45	8.5	24000	7600	4.2	4000		16A5		
17Z3	DIODE	HTR	17	.3	9CB-MB9	5N				HW RECTIFIER	HW RECTIFIER	MAX PEAK INVERSE = 4500 V; MAX I <sub>o</sub> = 150ma DC										17Z3
19	TWIN TR	FIL	2.0	.26	6C-SS6	12B				CLASS B TWO SECT	CLASS B TWO SECT	135 135	10 NO SIG 0.1 NO SIG				2.1 1.6	10000 10000		19		
19AQ5	BM PENT	HTR	18.9	.15	7BZ-MB7	5J				POWER AMP	POWER AMP	180 250	180 250	3 4.5	58000 52000	3700 4100	2.0 4.5	5500 5000		19AQ5		
19BG6G	BEAM PENTODE	HTR	18.9	0.3	5BT-OM6	16C	0.65	11	6.5	DEFLECT. AMP	DEFLECT. AMP	MAX PEAK POS PLATE SURGE=6000 volts, MAX I <sub>b</sub> =100 ma										19BG6G
19C8	TRIPLE DI TRIODE	HTR	18.9	.15	9E-MB9	5G				AMP CL A	AMP CL A	100	.5	100		1250				19C8		
19J6	DOUBLE TRIODE	HTR	18.9	0.15	7BF-MB7	5B	1.5	2.0	0.4	CONVERTER	CONVERTER	150	4.8		10200	1900C				19J6		
19T8	TRIP-DI TRI	HTR	18.9	0.15	9E-MB9	5G	2.4	1.5	1.1	DET-AMP	DET-AMP	250 100	1.0 0.8	70 70		1200 1300				19T8		
19V8	TRIPLE DI TRIODE	HTR	18.9	.15	9AH-MB9	5G				AMP CL A	AMP CL A	100 250	.8 1.0	70 70	1300 1200					19V8		
19X3	DIODE	HTR	19	.3	9BM-MB9	5Q				HW RECTIFIER	HW RECTIFIER	MAX PEAK INVERSE = 4000 V; MAX I <sub>o</sub> = 180ma DC										19X3
19X8	TRIODE PENTODE	HTR	18.9	.15	9AK-MB9	5G	1.4 .9	2.0 4.3	.5 .7	TRIODE SECT PENTODE SECT	TRIODE SECT PENTODE SECT	150 150	13 6.2	(250 MC OSC) 1.8		2100C				19X8		
19Y3	DIODE	HTR	19	.3	9BM-MB9	5P				HW RECTIFIER	HW RECTIFIER	MAX PEAK INVERSE = 700 V; MAX I <sub>o</sub> = 180ma DC										19Y3
20	TRIODE	FIL	3.3	.132	4D-SS4	9Q	4.1	2.0	2.3	PR AMP CL A	PR AMP CL A	135	6.5	3.3	6300	525	.11	6500		20		
21A6	PENTODE	HTR	21.5	.3	9AS-MB9	5R	.4	14.3	6.5	AMP CL A	AMP CL A	180	45	3		6500				21A6		
22	TETRODE	FIL	3.3	.132	4K-SM4	14E	.02*	3.3	12	AMP CL A	AMP CL A	135	3.7	1.3	.33MEG	500				22		
24A	TETRODE	HTR	2.5	1.75	5E-SM5	14E	.007*	5.3	10.5	AMPLIFIER CLASS A	AMPLIFIER CLASS A	250 180	4 4	1.7 1.7	.6 MEG .4 MEG	1050 1000				24A		
24S																				24S		

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

TYPE	DESIGN	CATHODE		MAX SIZE VIEW	BASING DATA	CAPACITIES			USED AS	PLATE 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	HTR OR FIL			G-P	IN	OUT												
25A6 25A6G 25A6GT	PENTODE	HTR	.3	8H 14C 9H	7S-OW7 7S-OM7 7S-OW7				AMPLIFIER CLASS A	160 135 95	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	
25A7GT	DIODE PENTODE	HTR	.3	9H	8F-OGT8				H W RECT AMP CL A	117 RMS MAX 100	75 DC MAX 20.5	4	90	TUBE DROP 50000	23v AT 1800	150ma DC 1.77	4500		25A7GT	
25AC5GT	TRIODE	HTR	.3	9H	6Q-OGT6				DIR C/P'D AMP	110 FROM DRIVER	45					2	2000		25AC5GT	
25AV5GT	BM PENT	HTR	.3	9J	6CK-OGT6				HORIZ. AMP	MAX PEAK POS. PLATE SURGE = 5500 V MAX Ik = 100ma									25AV5GT	
25AX4GT	DIODE	HTR	.300	9H	4CG-OS5				DAMPER	MAX PEAK INVERSE = 4000 V; MAX Io = 125ma.									25AX4GT	
25B5	DUO-TRI	HTR	0.3	14D	6D-SS6				DIR C/P'D AMP 2 TUBES CL A	180 180	5.8 46			15200	2300	3.8	4000		25B5	
25B6G	PENTODE	HTR	.3	14C	7S-OM7				POWER AMP CLASS A	200 135 105	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	.15	9L	8T-OGT8				CL A TRIODE CL A PENTODE	100 100	0.6 7.6	2.0	113	.08MEG .19MEG	1500 2000			-2.5 -41	25B8GT	

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES





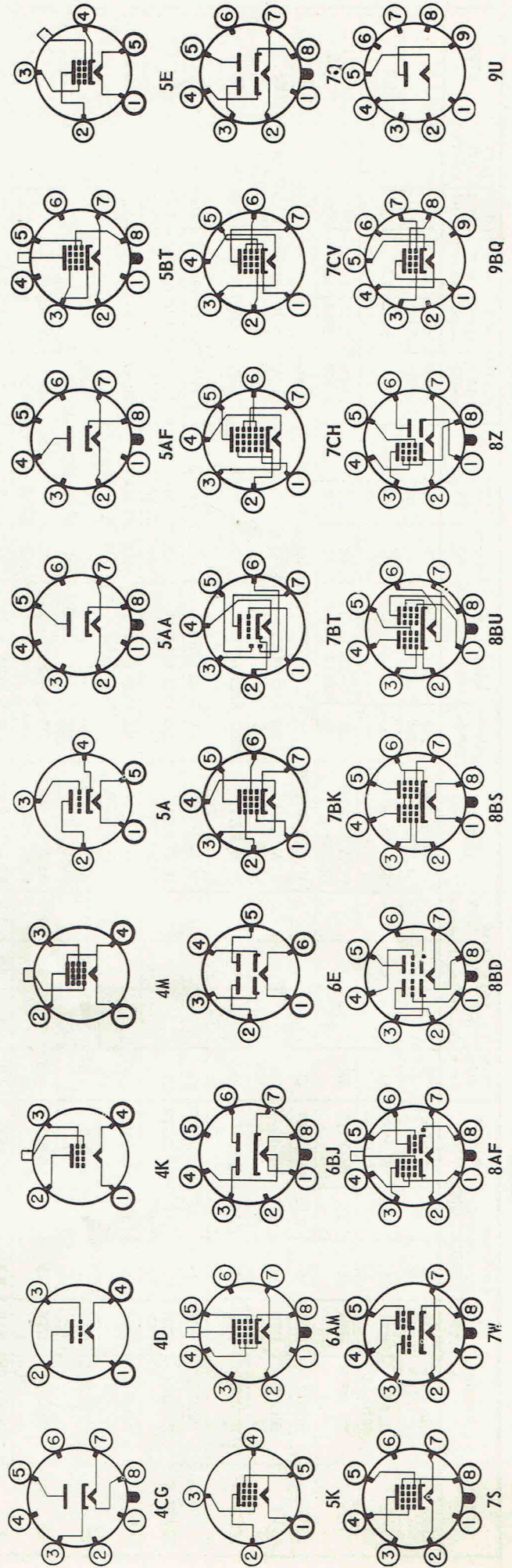
TYPE	DESIGN	CATHODE		MAX SIZE VIEW	BASING DATA	CAPACITIES	USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE			
		HTR OR FIL TYPE	HTR VOLTS																	C-P mmfds	IN mmfds	OUT mmfds
25BK5	BM PENT	HTR	25	.3	9BQ-MB9	5H	5	250	-5	250	35	3.5		.1MEG	8500	3.5	6500		25BK5			
25BQ6GT	BM PENT	HTR	25	.3	6AM-OGT7	9LB	9.5	MAX PEAK POS. PLATE SURGE = 5500 V MAX PLATE DISS = 12 WATTS														25BQ6GT
25C5	BM PENT	HTR	25	.3	7CV-MB7	5J		110	-7.5	110	49	4		10000	7500	1.9	2500		25C5			
25C6G	BM PWR	HTR	25	.3	7S-OM7	14C		200	-14	135	61	2.2		18300	7100	6.0	2600		25C6G			
								135	-13.5	135	58	3.5		9300	7000	3.6	2000					
25CD6G	BM PENT	HTR	25	.3	5ET-OM6	16D	10	430	Rk = 270	165	112	14		MAX PULSE PEAK POS. PLATE = 6000V					25CD6G			
25D8CT	DIODE TRIODE PENTODE	HTR	25	0.15	8AF-OGT8	9HA	4.5	100	-1		0.5		100	91000	1100				25D8CT			
							10	100	-3	100	8.5	2.7		0.2MEG	1900			-35				
25L6	BEAM PWR AMP	HTR	25	.3	7S-OW7	8H		110	-7.5	110	49	4		10000	8200	2.1	2000		25L6			
25L6GT		HTR	25	.3	7S-OGT7	9H		200	-8.0	110	50	1.5		35000	8250	4.3	3000		25L6GT			
25N6G	DUO-TRIODE	HTR	25	0.3	7W-OM7	14C	DRIVER TRIODE OUTPUT TRIODE	180	-20		5.8		35	15200	2300	3.8	4000		25N6G			
25U4CT	DIODE	HTR	25	.3	4CG-OGT5	9HB		MAX PEAK INVERSE = 3850V; MAX Io = 138ma DC											25U4CT			
25W4CT	DIODE	HTR	25	.3	4CG-OGT6	9H		MAX PEAK INVERSE = 1250 V; MAX Io = 125ma DC											25W4CT			
25W6CT	BM PENT	HTR	25	.3	7S-OGT7	9H		MAX PEAK POS. PLATE = 1200 V; MAX PEAK Ik = 140ma											25W6CT			
25X6CT	TWIN DIODE	HTR	25	0.15	7Q-OGT7	9H		250	RMS MAX		60	DC MAX		TUBE DROP 25v AT 120ma DC					25X6CT			
25Y4CT	DIODE	HTR	25	0.15	5AF-OGT7	9H		125	RMS MAX		75	DC MAX		TUBE DROP 18v AT 125ma DC					25Y4CT			
25Y5	TWIN DIODE	HTR	25	.3	6E-SS6	12B		250	RMS MAX		85	DC MAX		(EXPORT TYPE)					25Y5			
25Z4CT	DIODE	HTR	25	0.3	5AA-OGT7	9H		125	RMS MAX		125	DC MAX		TUBE DROP 12v AT 125ma DC					25Z4CT			
25Z5	TWIN DIODE	HTR	25	.3	7Q-OW7	8H		235	RMS MAX		75	DC MAX		TUBE DROP 22v AT 150ma DC					25Z5			
25Z6	DIODE	HTR	25	.3	7Q-OGT7	9H		117	RMS MAX		75	DC MAX							25Z6			
25Z6GT																			25Z6GT			
26	TRIODE	FIL	1.5	1.05	4D-SM4	14D	8.1	180	-14.5		6.2		8.3	7300	1140				26			
26A6	PENTODE	HTR	26.5	0.07	7BK-MB7	5B	5.0	250	Rk 125	100	10.5	4.0		1 MEG	4000			-25	26A6			
								26.5	0	26.5	1.7	0.7		0.25MEG	2000			-8				
26A7GT	DBL BEAM PENTODE	HTR	26.5	0.6	8BU-OGT8	9V	13	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	5J		100	-1		.5		100	1250					26BK6			
								250	-2		1.2		100	1600								
26C6	DBLE-DI TRI	HTR	26.5	0.07	7BT-MB7	5B	1.4	250	-9		9.5		16	1900					26C6			
								26.5	0		1.1		17	1100								
26CG6	PENTODE	HTR	26.5	.07	7BK-MB7	5B	5	250	-8	150	9	2.3		.72MEG	2000				26CG6			
26D6	PENTA-GRID	HTR	26.5	0.07	7CH-MB7	5B	14	250	-1.5	100	3.0	7.8		1 MEG	475C			-30	26D6			
								26.5	-0.5	26.5	0.45	1.6		270C				-6				
26Z5	DBLE DI	HTR	26.5	.2	9U-MB9	5G		MAX PEAK INVERSE = 1250 V; MAX Io = 120ma DC											26Z5			
27	TRIODE	HTR	2.5	1.75	5A-SS5	12B	3.0	250	-21		5.2		9	9250	975				27			
27S					5A-SS5			135	-9		4.5		9	9000	1000				27S			

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



TYPE	DESIGN	CATHODE		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	HTR OR FIL			G-P	IN													
28D7	TW PENT	HTR	28	0.40	8BS-L8	9B			28	-3.5	28	12.5	1.0		3000	3000	.1	4000		28D7
28Z5	TWIN DI	HTR	28	0.24	6BJ-L8	9B			325 RMS MAX COND IN 100 DC MAX 450 RMS MAX CHOKE IN 100 DC MAX											28Z5
30	TRIODE	FIL	2.0	.06	4D-SS4	12B	6.0	3.7	180	-13.5		3.1	9.3		10300	900	(SEE 1H4G ALSO)			30
31	TRIODE	FIL	2.0	.13	4D-SS4	12B	5.7	3.5	180	-30		12.3	3.8		3600	1050	.375	5700		31
31BX7CT	TWIN TRIODE	HTR	31.5	.3	8BD-OS8	9H	4.2	4.4	135	-22.5		8	3.8		4100	925	.185	7000		31BX7CT
32	TETRODE	FIL	2.0	.06	4K-SM4	14E	.015*	5.3	180	-3	67.5	1.7	0.4		1.2MEG	650				32
32L7GT	DIODE BM PWR	HTR	32.5	.3	8Z-OGT8	9H			135	-3	67.5	1.7	0.4		.95MEG	640				32L7GT
33	PENTODE	FIL	2.0	.26	5K-SM5	14D			125 RMS MAX 110 90	-7.5 -7	110 90	40 27	3 2	60 DC MAX	15000 17000	6000 4800	1.5 1.0	2500 2600		33
34	PENTODE	FIL	2.0	.06	4M-SM4	14E	.015*	6.0	180	-18	180	22	5		55000	1700	1.4	6000		34
35/51 35S/51S	TETRODE	HTR	2.5	1.75	5E-SM5 5E-SM5S	14E	.007*	5.3	180	-3	90	6.5	2.5		0.4MEG	1050				35/51 35S/51S

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



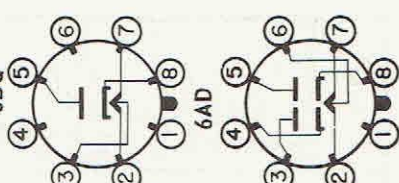
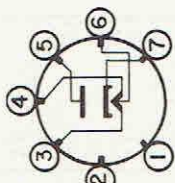
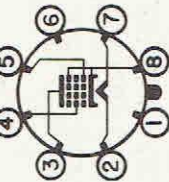
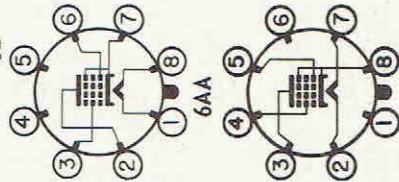
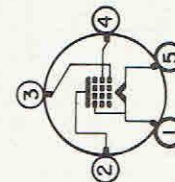
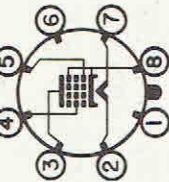
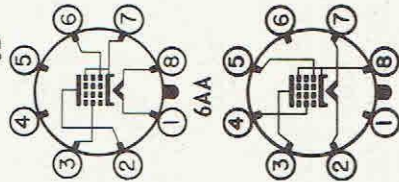
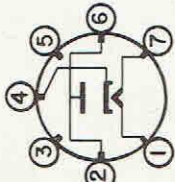
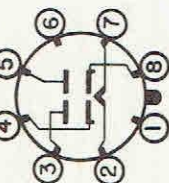
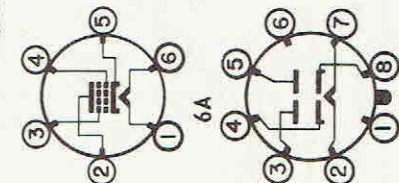
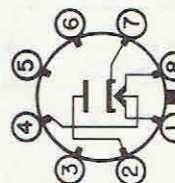
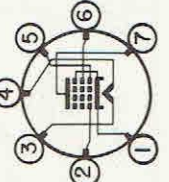
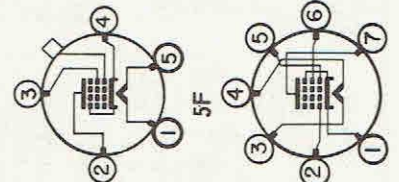
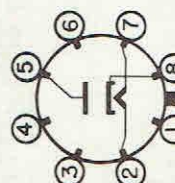
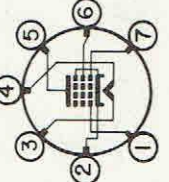
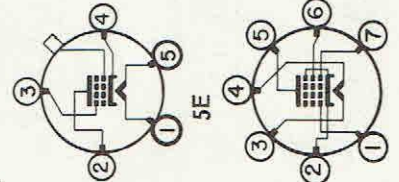
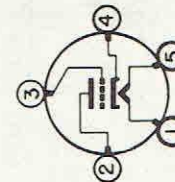
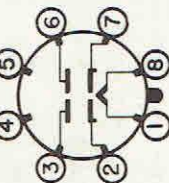
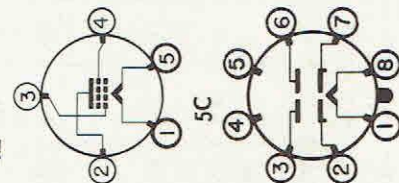
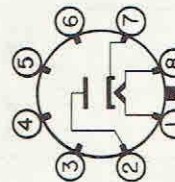
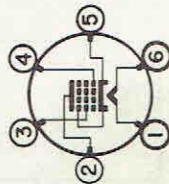
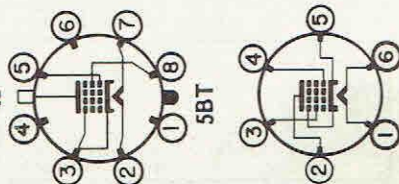
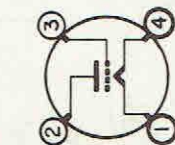


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		HTR OR FIL TYPE	HTR OR FIL VOLTS			G-P mmfds	IN mmfds													
35A5	BM PWR	HTR	32	.15	6A-L8	9B		POWER AMP CLASS A	110	-7.5	110	40	3.0		14000	5800	1.5	2500		35A5
35B5 35C5	BEAM PENTODE	HTR	35	0.15	7BZ-MB7 7CV-MB7	5J	0.4	POWER AMP CLASS A	200	-8.0	110	41	2.0		40000	5900	3.3	4500		35B5 35C5
35L6CT	BM PWR	HTR	35	.15	7S-OGT17	9H		POWER AMP CLASS A	110	-7.5	110	41	7			5800	1.5	2500		35L6CT
35W4	DIODE	HTR	35	0.15	5BQ-MB7	5J		HW RECTIFIER	110	-7.5	110	40	3.0		13800	5800	1.5	2500		35W4
35Y4	DIODE	HTR	35	0.15	5AL-L8	9B		H W RECT LAMP TAP	200	-8.0	110	41	2.0		40000	5900	3.3	4500		35Y4
35Z3	DIODE	HTR	32	.15	4Z-L8	9B		H W RECT	235	RMS MAX		100	DC MAX							35Z3
35Z4CT	DIODE	HTR	35	.15	5AA-OGT6	9H		H W RECT	235	RMS MAX		100	DC MAX							35Z4CT
35Z5CT	DIODE	HTR TAP	35	.15	6AD-OGT6	9H		H W RECT LAMP TAP	235	RMS MAX		100	DC MAX OR 60 DC MAX WITH 6.3v - 150ma PANEL LAMP							35Z5CT
35Z6G	TWIN DIODE	HTR	35	.3	7Q-OM7	14C		H W RECT V DOUBLER	235	RMS MAX		110	DC MAX							35Z6G
36	TETRODE	HTR	6.3	.3	5E-SS5	12H	.007*	AMP CL A BIAS DET	250	-3	90	3.2	1.7	595	.55MEG	1080				36
37	TRIODE	HTR	6.3	.3	5A-SS5	12B	2.0	AMP CL A BIAS DET	250	-18		7.5	9.2	8400	1100					37
38	PENTODE	HTR	6.3	.3	5F-SS5	12H	.3	POWER AMP CLASS A	250	-25	250	22	3.8	120	.1 MEG	1200	2.5	10000		38
39/44	PENTODE	HTR	6.3	.3	5F-SS5	12H	.007*	AMPLIFIER CLASS A	135	-13.5	135	9	1.5	120	.13MEG	925	0.55	13500		39/44
40	TRIODE	FIL	5.0	.25	4D-SM4	14D	8.8	AMP CL A	250	-3	90	5.8	1.4	1050	1.0MEG	1050			-42.5	40
41	PENTODE	HTR	6.3	.4	6B-SS6	12B		POWER AMP CLASS A	180	-3	90	0.2	30	15MEG	200	PL RESISTOR .25MEG				41
42	PENTODE	HTR	6.3	.7	6B-SM6	14D		PR AMP CL A	315	-21	250	25.5	4.0		75000	2100	4.5	9000		42
43	PENTODE	HTR	25	.3	6B-SM6	14D		CL AB 2 TUBE PUSH-PULL	250	-16.5	285	38	7		78000	2550	4.8	7000		43
45	TRIODE	FIL	2.5	1.5	4D-SM4	14D	7	AMPLIFIER CLASS A	250	-20	135	34	6.5		80000	2500	3.2	7000		45
45Z3	DIODE	HTR	45	0.075	5AM-MB7	5B		AMP CL A	375	-26	250	34	5							45Z3
45Z5CT	DIODE	HTR	45	.15	6AD-OGT6	9H		AMP CL A	315	-18	250	32	5.5		68000	2300	3.4	7600		45Z5CT
46	DUAL GRID TRIODE	FIL	2.5	1.75	5C-SM5	16B	G2 TIED TO P G1 TIED TO G2	PR AMP CL A PR AMP CL B 2 TUBES	160	-18	120	33	6.5		42000	2375	2.2	5000		46
47	PENTODE	FIL	2.5	1.75	5B-SM5	16B		PR AMP CL A	135	-20	135	37	8		35000	2450	2.0	4000		47
48	TETRODE	HTR	30	.4	6A-SM6	16B		PR AMP CL A	95	-15	95	20	4		45000	2000	0.9	4500		48

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

TYPE	DESIGN	CATHODE		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	HTR OR FIL			G-P	IN													
49	DUAL GRID TRIODE	FIL	2.0	5C-SM5	14D	G2 TIED TO P G1 TIED TO G2		PR AMP CL A PR AMP CL B 2 TUBES	135 180 135	0 0		6 4 2.6	NO SIGNAL NO SIGNAL	4.7	4175	1125	.17 3.5 2.3	11000 12000 8000		49
50	TRIODE	FIL	7.5	4D-SM4B	19A			POWER AMP CLASS A	450 350	-84 -63		55 45	3.8 3.8	1800 1900	2100 2000	4.6 2.4	4350 4100		50	
50A5	PENTODE	HTR	50	6AA-18	9B			PR AMP CL A	200	-8	110	50	1.5	35000	8250	4.7	3000		50A5	
50AX6G	DBLE DI	HTR	50	7Q-OM7	14C			FW RECTIFIER	MAX PEAK INVERSE = 1250 V; MAX I <sub>o</sub> = 125ma DC											
50B5 50C5	BEAM PENTODE	HTR	50	7BZ-MB7 7CV-MB7	5J	0.5	13	POWER AMP	110	-7.5	110	50	8.5	14000	7500	1.9	2500		50B5 50C5	
50C6G	BM PWR	HTR	50	7S-OM7	14C			POWER AMP CLASS A	200 135	-14 -13.5	135	61 58	2.2 3.5	18300 9300	7100 7000	6.0 3.6	2600 2000		50C6G	
50CD6G	BM PENT	HTR	50	5BT-OM6	16D	1	2.6	HORIZ. AMP	MAX PEAK POS. PLATE PULSE = 6000 V MAX PLATE DISS. = 15 WATTS; MAX I <sub>b</sub> = 170ma DC											
50L6GT	BM PWR	HTR	50	7S-OGT7	9H			POWER AMP CLASS A	110 200	-7.5 -8.0	110	49 50	4 1.5	10000 35000	8200 8250	2.1 4.3	2000 3000		50L6GT	
50X6 50Y6GT	TWIN DIODE DOUBLE DIODE	HTR	50	7AJ-18 7Q-OM7	9B 9H			H W RECT V DOUBLER	235 RMS MAX 117 RMS MAX TUBE DROP 22v AT 150ma DC											
50Y7CT	DOUBLE DIODE	HTR	50	8AN-OGT8	9H			VOLT. DOUBLER	MAX RMS PLATE VOLTAGE=117v PER PLATE, MAX I <sub>o</sub> =75 ma PER PLATE											
50Z6G	DOUBLE DIODE	HTR	50	7Q-OM7	14C			VOLT. DOUBLER	MAX RMS PLATE VOLTAGE=125v PER PLATE, MAX I <sub>o</sub> =150ma											

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



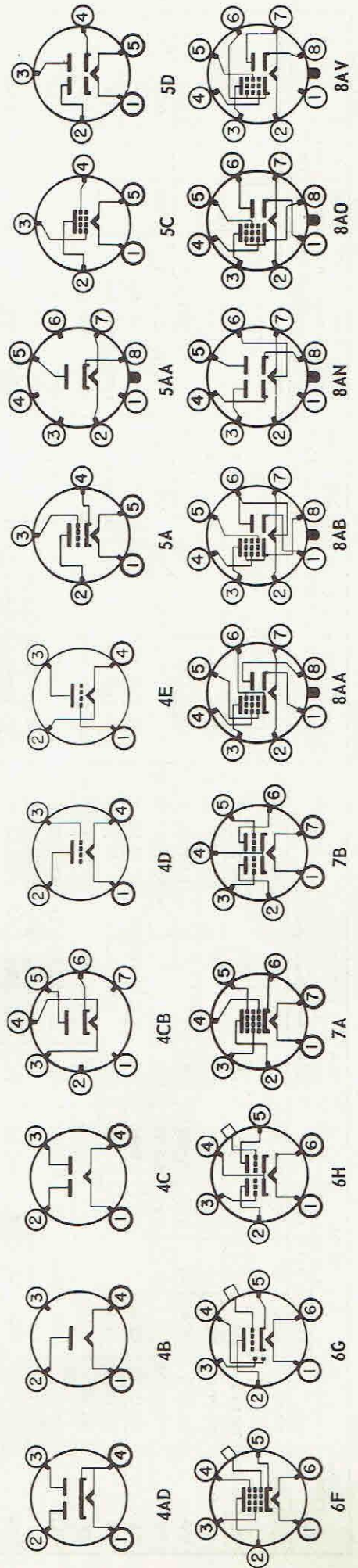


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES		USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		HTR OR FIL	HTR VOLTS			G-P mmfds	IN mmfds													
50Z7C	TWIN DIODE	HTR	50	.15	8AN-OS7	12E			117 RMS MAX 117 RMS MAX 2.5v - 150ma PANEL LAMP	0	0	43 3	NO SIGNAL	5.2	1750	3000	1.5 5	2000 10000		50Z7C
52	2 GRID TRIODE	FIL	6.3	.3	5C-SM5	14D	G2 TIED TO P G1 TIED TO G2	PR AMP CL A CL B 2 TUBE	110 180	0 0	0	3	NO SIGNAL	5.2	1750	3000	1.5 5	2000 10000		52
53	TWIN TRIODE	HTR	2.5	2.0	7B-SM7	14D		POWER AMP CL B 2 SECT	300	0	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	12H	1.7	AMPLIFIER CLASS A	250 135	-20 -10.5	8 3.7	8.3 8.3	7500 11000	1100 750	20000 25000					55 55S
56 56S 56AS	TRIODE	HTR	2.5 2.5 6.3	1.0 1.0 .3	5A-SS5 5A-SS5 5A-SS5	12B	3.2	AMPLIFIER CLASS A BIAS DET	250 100 250	-13.5 -5 -20	5 2.5 0.2	13.8 13.8	9500 12000	1450 1150						56 56S 56AS
57 57S 57AS	PENTODE	HTR	2.5 2.5 6.3	1.0 1.0 .4	6F-SS6 6F-SS6 6F-SS6	12J	.007*	AMPLIFIER CLASS A	250 100	-3 -3	100 100	2 2	0.5 0.5	1500 1185	1225 1185				-7 -7	57 57S 57AS
58 58S 58AS	PENTODE	HTR	2.5 2.5 6.3	1.0 1.0 .4	6F-SS6 6F-SS6 6F-SS6	12J	.007*	AMPLIFIER CLASS A	250 100	-3 -3	100 100	8.2 8	2 2.2	1280 375	.8 MEG .25MEG	1600 1500			-50 -50	58 58S 58AS
59	PENTODE	HTR	2.5	2.0	7A-SM7	16B	PENT CONN G <sub>2</sub> , G <sub>3</sub> TO PL 2 TUBES G <sub>3</sub> TO P	PR AMP CL A TRI CONN PR AMP CL B G <sub>1</sub> TO G <sub>2</sub>	250 250 400 300	-18 -28 0 0	250	35 26 26 20	9 NO SIGNAL NO SIGNAL	100 6	40000 2300	2500 2600	3 1.25 20 15	6000 5000 6000 4600		59
70A7GT	DI BEAM PR AMP	HTR	70	.15	8AB-OGT8 9H			H W RECT PR AMP CL A	125 RMS MAX 110	-7.5	110	40	3	80	TUBE DROP 14v AT 120ma DC 5800	1.5	2500			70A7GT
70L7GT	DIODE BM PWR	HTR	70	.15	8AA-OGT8 9H			H W RECT PR AMP CL A	125 RMS MAX 110	-7.5	110	40	3		TUBE DROP 20v AT 140ma DC 15000	1.8	12000			70L7GT
71A	TRIODE	FIL	5	.25	4D-SM4B	14D		POWER AMP CLASS A	180 90	-40.5 -16.5		20 10	3 3	1750 2170	1700 1400	.79 .125	4800 3000			71A
75 75S	DUO-DI TRIODE	HTR	6.3	.3	6G-SS6 6G-SS6	12H	1.7	AMPLIFIER CLASS A	250 100	-3 -1.5	100 60	2.3 1.7	0.5 0.4	1250 1100	1.5MEG 0.6MEG	1250 1100			-7.5 -5.5	75 75S
76	TRIODE	HTR	6.3	.3	5A-SS5	12B		AMPLIFIER CLASS A BIAS DET	250 100	-13.5 -5	5 2.5	13.8 13.8	9500 1150	1450 1150						76
77	PENTODE	HTR	6.3	.3	6F-SS6	12H	.007*	AMPLIFIER CLASS A	250	-3	100	2.3	0.5	1250	.6 MEG	1650			-7.5 -5.5	77
78	PENTODE	HTR	6.3	.3	6F-SS6	12H	.007*	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	12H		CL B AMP 2 SECTIONS	250 180	0 0		10.6 7.6	NO SIG NO SIG			8 5.5	14000 7000			79
80	TWIN DI	FIL	5.0	2.0	4C-SM4	14D		FULL WAVE RECTIFIER	350 RMS MAX 500 RMS MAX	CHOKE IN 125 DC MAX CHOKE IN 125 DC MAX					TUBE DROP 60v AT 125ma DC					80
81	DIODE	FIL	7.5	1.25	4B-SM4	16B		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	14D (MERCURY VAPOR)		FULL WAVE RECTIFIER	450 RMS MAX 550 RMS MAX	COND IN 115 DC MAX CHOKE IN 115 DC MAX					TUBE DROP 15v					82
83	TWIN DI	FIL	5.0	3.0	4C-SM4	16B (MERCURY VAPOR)		FULL WAVE RECTIFIER	450 RMS MAX 550 RMS MAX	COND IN 225 DC MAX CHOKE IN 225 DC MAX					TUBE DROP 15v					83

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

TYPE	DESIGN	CATHODE		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	HTR OR FIL			G-P	IN	OUT														
83V	TWIN DI	HTR	5.0	2.0	4AD-SM4	14D			FULL WAVE RECTIFIER	375 RMS MAX COND IN 175 DC MAX 500 RMS MAX COND IN 175 DC MAX											83V	
84/6Z4	TWIN DI	HTR	6.3	.5	5D-SS5	12B			FULL WAVE RECTIFIER	325 RMS MAX COND IN 60 DC MAX 450 RMS MAX CHOKE IN 60 DC MAX												84/6Z4
85	DUO-DI TRIODE	HTR	6.3	.3	6G-SS6	12H	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
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	12H	G <sub>1</sub> TIED TO K G <sub>2</sub> TIED TO G <sub>2</sub>			PENT PR AMP CLASS A CL B 2 TUBE	250 135 180	-25 -13.5 0	32 14 6 NO SIGNAL	5.5 2.2 6 NO SIGNAL	70000 92500 G <sub>3</sub> TIED TO P	1800 1350	3.4 0.75	6750 9200				89
V99 X99	TRIODE	FIL	3.3	.063	4E-SV4 4D-SS4	8A 9Q	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/M7CT	DI BEAM PR AMP	HTR	117	.09	8AO-OGT8	9HA				H W RECT PR AMP CL A	117 RMS MAX 105	-5.2	105	4	17000	5300	0.85	4000				117L/M7CT
117N7CT	DI BEAM PR AMP	HTR	117	.09	8AV-OGT8	9HA				H W RECT PR AMP CL A	117 RMS MAX 100	-6	100	6.0	16000	7000	1.2	3000				117N7CT
117P7CT	DI BEAM PWR AMP	HTR	117	0.09	8AV-OGT8	9HA				H W RECT PR AMP CL A	117 RMS MAX 105	-5.2	105	4	17000	5300	0.85	4000				117P7CT
117Z3	DIODE	HTR	117	0.04	4CB-MB7	5J				HW RECTIFIER	MAX PEAK INVERSE=330 volts, MAX I <sub>o</sub> =90 mads											117Z3
117ZACT	DIODE	HTR	117	0.04	5AA-OGT6	9H				H W RECT	117 RMS MAX											117ZACT

SEE PAGE 4 FOR DATA CHART REFERENCE NOTES

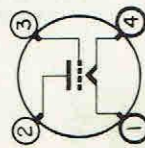




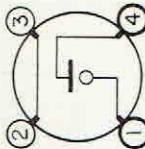


TYPE	DESIGN	CATHODE		BASING DATA	MAX SIZE VIEW	CAPACITIES			USED AS	PLATE VOLTS	GRID VOLTS	SCR VOLTS	PLATE MA	SCR MA	AMP FACT	PLATE RESIS OHMS	MUT COND mmho	OUT PUT WATTS	LOAD RESIS OHMS	CUT OFF VOLTS	TYPE
		TYPE	HTR OR FIL			G-P	IN	OUT													
117Z6CT	TWIN DIODE	HTR	117	.075	7Q-OGT7	9H				235 RMS MAX 117 RMS MAX		60 DC MAX 60 DC MAX									117Z6CT
182B/482B	TRIODE	FIL	5.0	1.25	4D-SM4	14D			RECTIFIER V DOUBLER	250	-35	18		5		1500					182B/482B
183/483	TRIODE	FIL	5.0	1.25	4D-SM4	14D			PR AMP CL A	250	-58	20		3		1500					183/483
485	TRIODE	HTR	3.0	1.25	5A-SS5	12B			AMP CL A	180	-10	5.2		12.8		1300					485
950	PENTODE	FIL	2.0	.12	5K-SM5	14D			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	19B		GAS FILLED	F W RECT	350	RMS MAX		350	DC MAX							BA
BH	TWIN DI	COLD			4J-SM4	14A		GAS FILLED	F W RECT	350	RMS MAX		125	DC MAX							BH
BR	DIODE	COLD			4H-SM4	12A		GAS FILLED	H W RECT	300	RMS MAX		50	DC MAX							BR
XXD	TWIN TRIODE	HTR	12.6	.15	8AC-18	9A	2.3	2.2	1.6	250	-10	9	16		7600	2100					XXD
XXL	TRIODE	HTR	6.3	.3	5AC-18	9A	2.0	3.4	2.6	100	0	10.8	17		6500	2600					XXL
										250	-8	8	20		8700	2300					
										100	0	10	25		7000	3600					

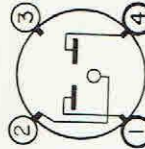
SEE PAGE 4 FOR DATA CHART REFERENCE NOTES



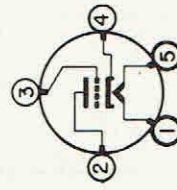
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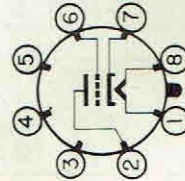
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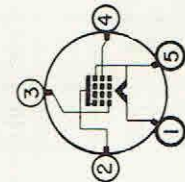
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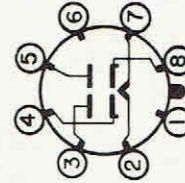
5A



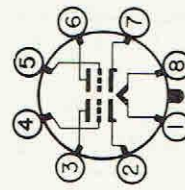
5AC



5K



7Q



8AC

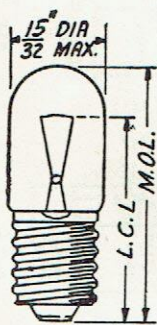


## PANEL LAMPS

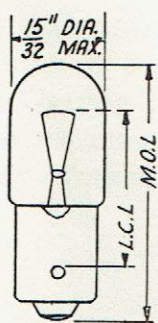
Raytheon Dependable Panel Lamps are of the highest quality and are designed especially to meet the requirements of the renewal market.

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	¾"	1½"	40
40-A	6-8	0.15	0.5	T-3¼	Min. Bayonet	Brown	¾"	1½"	40-A
41	2.5	0.5	0.5	T-3¼	Min. Screw	White	¾"	1½"	41
42	3.2	0.5	0.75	T-3¼	Min. Screw	Green	¾"	1½"	42
43	2.5	0.5	0.5	T-3¼	Min. Bayonet	White	¾"	1½"	43
44	6-8	0.25	0.8	T-3¼	Min. Bayonet	Blue	¾"	1½"	44
45	3.2	0.5	0.75	T-3¼	Min. Bayonet	Green	¾"	1½"	45
46	6-8	0.25	0.8	T-3¼	Min. Screw	Blue	¾"	1½"	46
47	SAME CHARACTERISTICS AS 40A, WITH WHICH IT IS INTERCHANGEABLE								47
48	2.0	0.06	0.03	T-3¼	Min. Screw	Pink	¾"	1½"	48
49	2.0	0.06	0.03	T-3¼	Min. Bayonet	Pink	¾"	1½"	49
49-A	2.1	0.12	0.07	T-3¼	Min. Bayonet	White	¾"	1½"	49-A
50	6-8	0.2	1.0	G-3½	Min. Screw	White	¾"	1½"	50
51	6-8	0.2	1.0	G-3½	Min. Bayonet	White	½"	1½"	51
55	6-8	0.4	1.5	G-4½	Min. Bayonet	White	½"	1½"	55
291	2.9	0.17	—	T-3¼	Min. Bayonet	White	¾"	1½"	291
292	2.9	0.17	0.3	T-3¼	Min. Screw	White	¾"	1½"	292
292-A	2.9	0.17	0.3	T-3¼	Min. Bayonet	White	¾"	1½"	292-A
1490	3.2	0.16	—	T-3¼	Min. Bayonet	White	¾"	1½"	1490

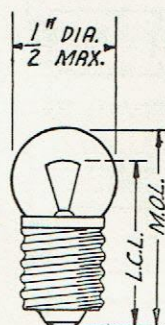
Note: The color of the bead inside the lamp bulb may be used to identify the more common Raytheon types. This information is shown in the column headed "Bead Color."



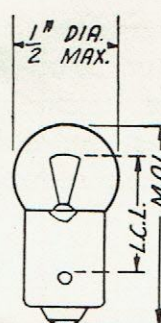
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41  
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48  
292



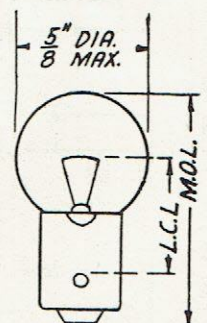
40A  
43  
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292A  
1490



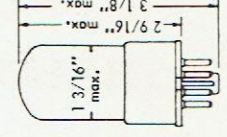
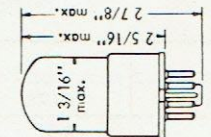
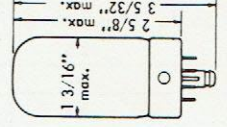
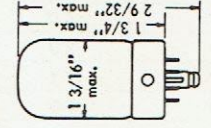
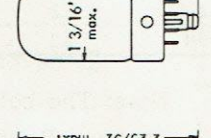
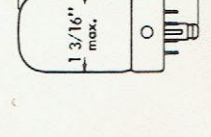
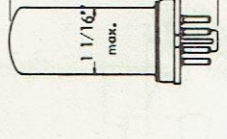
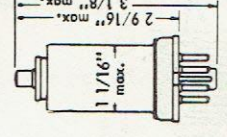
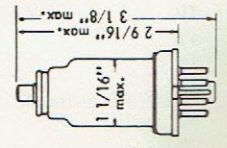
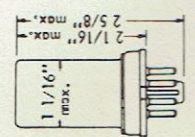
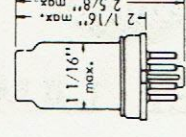
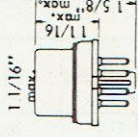
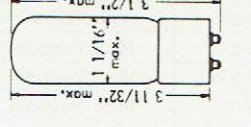
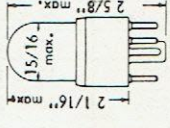
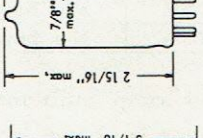
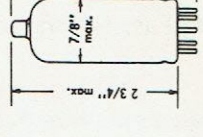
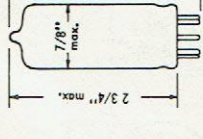
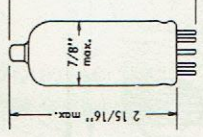
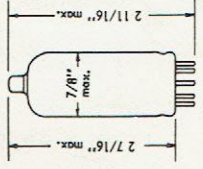
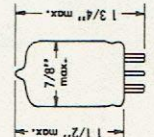
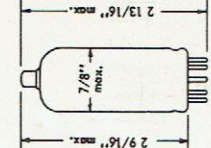
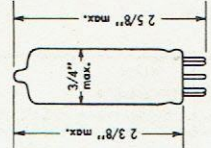
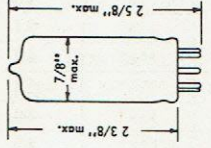
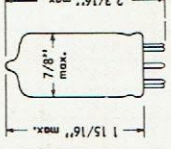
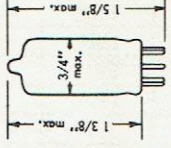
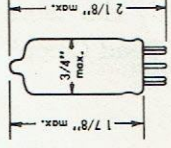
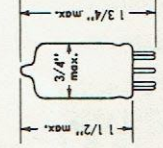
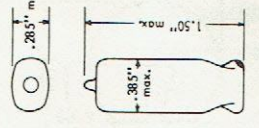
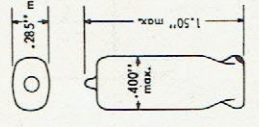
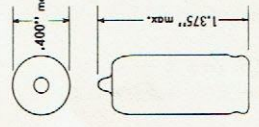
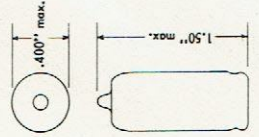
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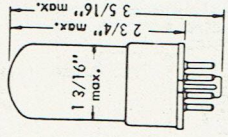


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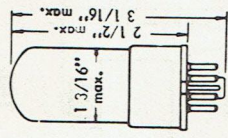


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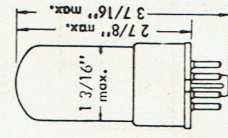




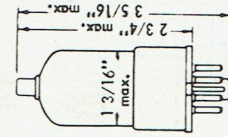
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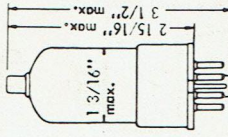
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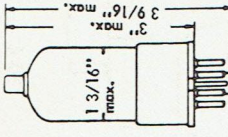
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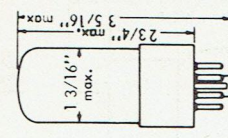
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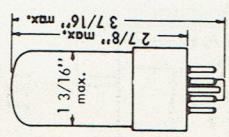
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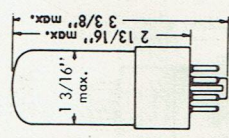
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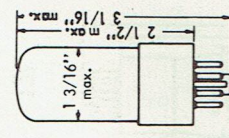
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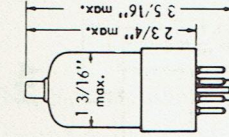
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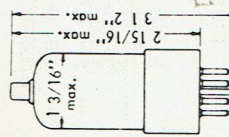
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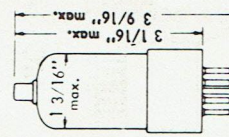
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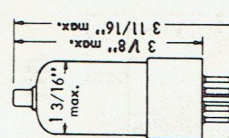
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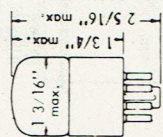
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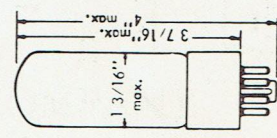
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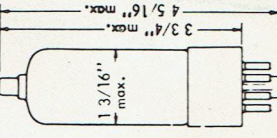
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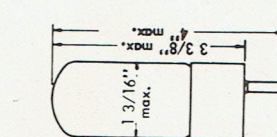
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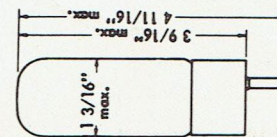
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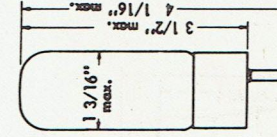
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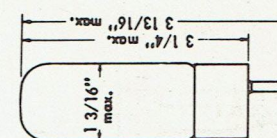
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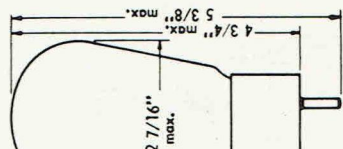
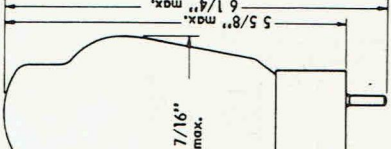
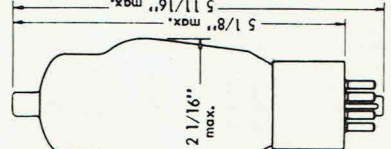
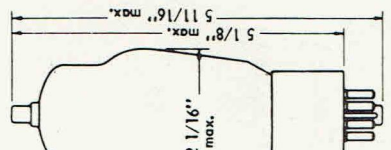
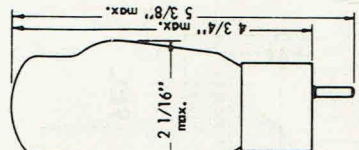
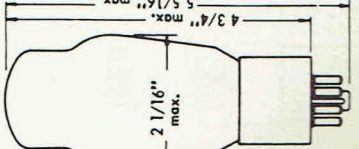
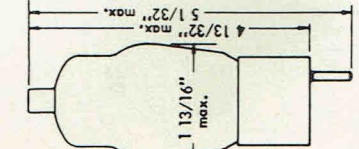
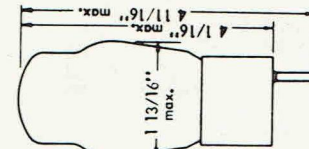
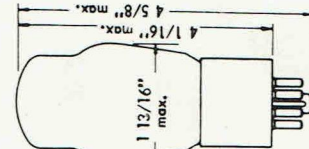
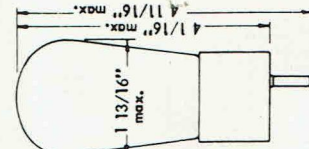
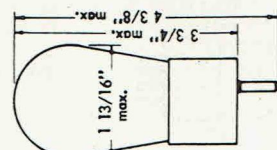
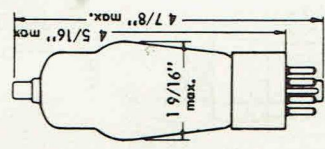
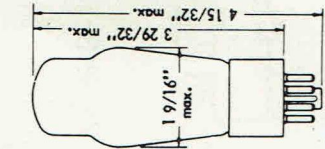
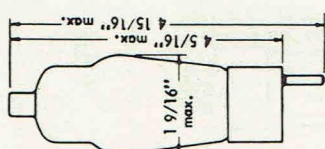
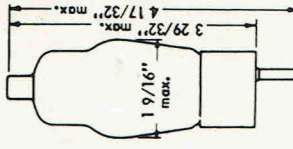
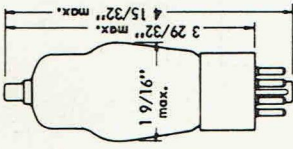
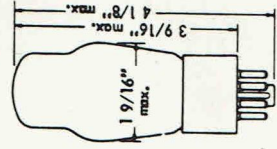
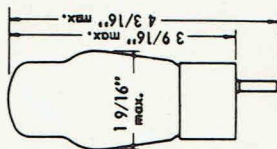
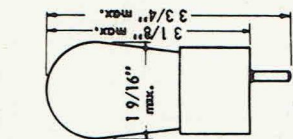
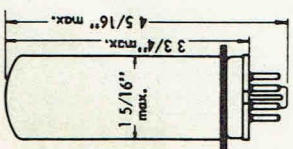
9R



9U



9V



14E

16A

16B

16C

16D

19A

19B

12J

12K

12L

14A

14B

14C

14D

10C

12A

12B

12E

12F

12H



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