

## Catalog: CBS-PA-5 (Transmitting and special purpose tubes)



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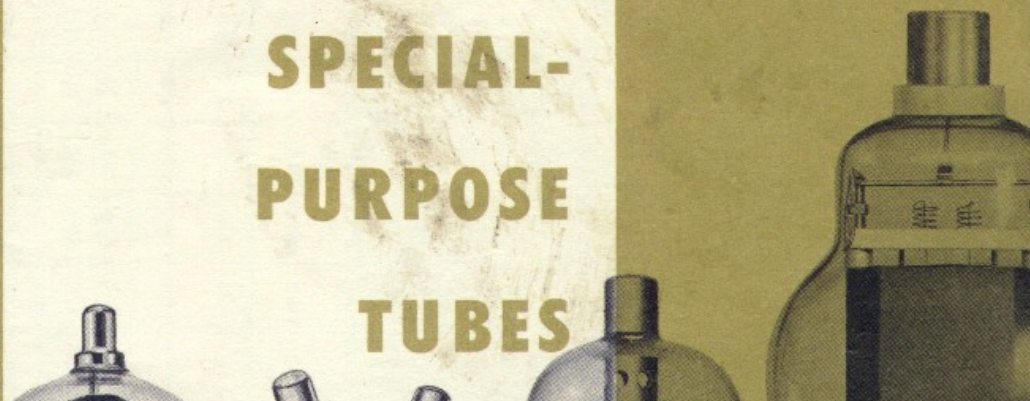
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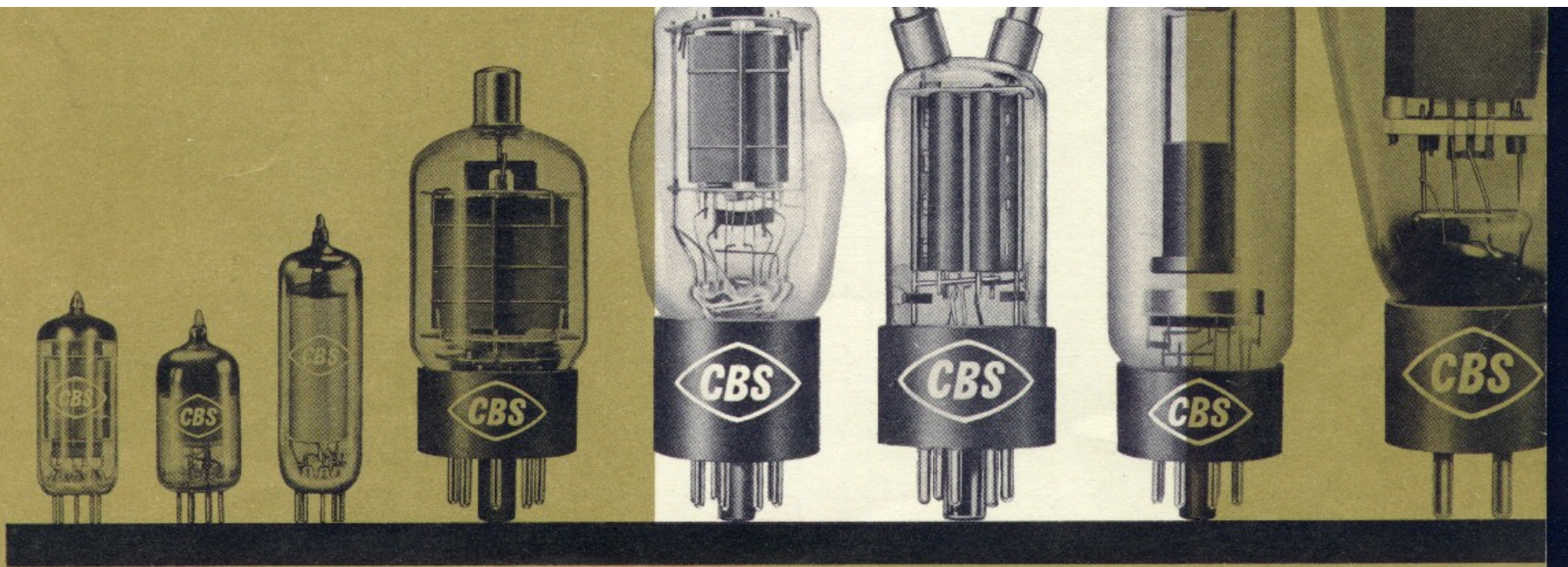
**REFERENCE  
DATA  
FOR**



**TRANSMITTING  
AND  
SPECIAL-  
PURPOSE  
TUBES**







*Includes data for transmitting  
pentodes, triodes, and rectifiers  
... gaseous voltage regulator  
and reference tubes ... special  
receiving and military tubes.*



# R-F TRANSMITTING AND AUDIO

SERVICE	MAXIMUM RATINGS										TYPICAL OPERATION									
	Max. Freq. Mc.	Plate Volts	Screen Volts	Plate Ma.	Grid Ma., D-C	Screen Watts	Plate Watts	Screen Volts	Grid Volts	Plate Ma.†	Screen Ma.†	Grid Ma., D-C	Drive Watts	Load Resistance Kilohms	Output Watts	TYPE				
d.	300	200	75	2.5	250	160	-8†	40	6.8	40	0.43	6	3.9	2E24						
	400	200	75	2.5	400	125	-15†	150	26	150	0.19	7	42							
	500	200	75	3.5	400	200	-45	75	10	75	3.0		20							
	125	200	75	2.5	350	170	-50	85	10	85	3.0		16.5							
(ICAS)	160	200	60	3.5	400	180	-45	50	8	50	0.15		13.5							
d.	400	250	75	2.5	250	250	-22.5†	40	9.6	40	0.42	5	4.75	2E25A						
	450	250	75	5.0	300	250	-25†	37	8.4	37	0.27	7	6							
	450	250	75	4.0	450	250	-30†	150	40.0	150	3.0	6	40							
	100	250	75	4.5	450	250	-45	75	15.0	75	3.0		20							
d.	400	225	75	4.5	450	250	-70	75	15.0	75	0.36		22							
	400	225	75	2.7	400	225	-70	60	8.5	60	0.33		75							
	300	200	75	2.5	250	160	-12	42	10	42	0.36	5.5	5.3	2E26						
	400	200	75	2.5	400	125	-15	150	32	150	0.15	6.2	42							
d.	500	200	75	3.5	500	185	-40	60	11	60	1.7		20							
	125	200	75	2.5	300	170	-75	75	6.0	75	0.2		13							
	160	200	70	2.5	600	200	-50	60	10	60	0.15		24							
	125	200	70	3.5	250	250	-20†	44	7.4	44	0.2	4.5	4.5	2E30						
d.	300	275	60	2.5	250	250	-30†	120	20.0	120	0.7	4.5	17							
	300	250	60	3.0	300	250	-70	50	5.0	50	1.7	3.8	6							
	165	250	60	2.5	300	225	-70	45	3.8	45	0.2		4.5							
	165	200	60	2.5	200	200	-46	45	10.0	45	0.15		5							
d.	150	135	25	1.5	90	90	-18	15	4.8	15	0.03		0.45	3B4						
	100	135	25	1.1	150	135	-38	25	6.2	25	0.07		1.25							
atic)	3500	850		3.0	3500	800	Transient Peak Plate = 5000V, Pc1 = 0.5w, Pulse = 10µs.								3D21A					
					600	300	-150 R <sub>L</sub> = 450 Esig = 150V													
c.	10	350	250	2.0	350	250	-100	47	7.0	47	5.0		11	6V6GT						
d.	600	300	120	5.0	400	300	-25†	58	8.5	58	1.0		10.6	HY69						
	600	300	120	5.0	500	250	-20†	53	4.5	53	1.0		10.2							
	600	300	120	5.0	500	250	-22.5†	240	16.0	240	1.12		75							
	60	300	100	5.0	600	250	-30†	240	20.0	240	1.12		100							
c.	600	300	100	7.0	600	250	-100	100	12.5	100	1.0		42							
	600	300	100	7.0	500	250	-100	100	12.5	100	1.0		33							
	600	300	100	3.3	500	250	-100	83	12.5	83	0.9		29							
	600	300	100	3.3	400	250	-100	80	12.5	80	0.9		22							
Mod.*	600	300	120	3.5	600	300	-30	200	10.0	200	0.1		6.4	80	807					



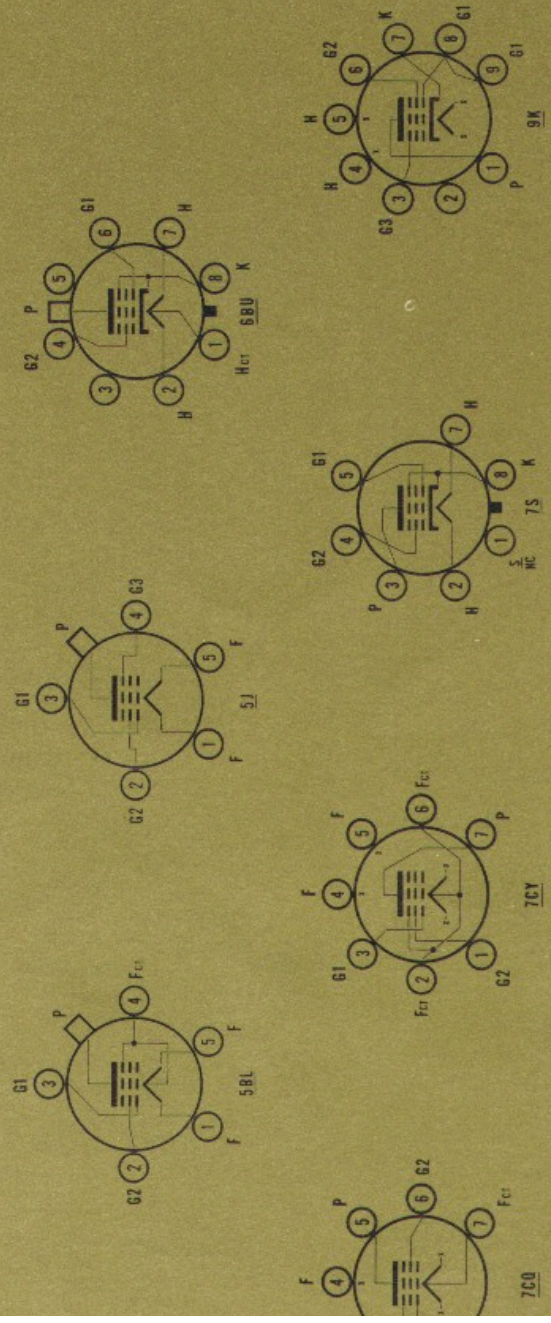
# BEAM PENTODES...

TYPE	DESCRIPTION		CATHODE				CAPACITY			APPLICATION
	Max. Plate Watts	Basing	Heater Filament	Volts	Amperes	Cgp Max.	Cin	Cout		
<b>2E24</b>	10	7CL	Oxide Fil.	6.3	0.65	0.11	8.5	6.5	Class A <sub>1</sub> Amp. & Mo Class AB <sub>2</sub> Amp. & M Class C Amp. & Osc Class C Amp. & Osc. Class C Plate Mod.	
	10									
	10									
	10									
	6.7									
<b>2E25A</b>	10.5	5BJ	Oxide Fil.	6.0	0.7	0.15	8.6	6.6	Class A <sub>1</sub> Amp. & M Class AB <sub>2</sub> Amp. & M Class C Amp. & Osc	
	15									
	15									
	10									
<b>2E26</b>	10	7CK	Heater	6.3	0.8	0.2	12.5	7.0	Class A <sub>1</sub> Amp. & M Class AB <sub>2</sub> Amp. & M Class C Amp. & Osc Class C Plate Mod.	
	10									
	10									
	10									
<b>2E30</b>	10	7CQ	Oxide Fil.	6.0	0.65	0.2	9.5	6.6	Class A <sub>1</sub> Amp. & M Class AB <sub>2</sub> Amp. & M Class C Amp. & Osc Class C Doubler Class C Plate Mod.	
	10									
	10									
	10									
	6.6									
<b>3B4</b>	3	7CY	Oxide Fil.	1.25 2.50	0.33 0.165	0.15	4.6	7.6	Class C Amp. & Osc	
<b>3D21A</b>	15	6BU	Heater	6.3 12.6	1.7 0.85	1.2	17.0	10.0	Pulse Modulator Characteristics (St	
<b>6V6GT</b>	8	7S	Heater	6.3	0.45	0.7	9.0	7.5	Class C Amp. & Osc	
<b>HY69</b>	30	5J	Thoriated Fil.	6.0	1.6	0.3	17.0	8.5	Class A <sub>1</sub> Amp. & M Class AB <sub>2</sub> Amp. & M Class C Amp. & Osc Class C Plate Mod.	
	30									
	30									
<b>807</b>	25	54W	Heater	6.3	0.9	0.2	12.0	7.0	Class AB <sub>2</sub> Amp. & M	



Model	60V	300V	140V	3.5	60V	300V	-30	200	10.0	0.1	6.4	80	807
C.	60	600	80		400	300	-25	240	10.0	0.2	3.2	55	
		600	100	5.0	600	250	-25	62	3.0	0		12	
	60	300			600	250	-45	100	7.0	3.5		40	
		475	83	2.5	400	250	-45	100	7.5	3.5		25	
	60	300			475	225	-85	83	5.0	4.0		27.5	
		325			325	225	-75	80	5.0	3.0		17.5	
od.	600	300		5.0	400	300	-25†	75	11.0		5	15	<b>HY1269</b>
Mod.*	600	300	120	5.0	500	250	-22†	63	7.0		7	15.5	
		600			600	250	-22.5†	240	18.0	9.0	5.8	110	
		750	120	5.0	400	250	-22.5†	240	12	8.0	2.8	52	
C.	60	300			750	300	-100	120	15	6.0		63	
		600	100	7.0	400	250	-100	100	15	6.0		24	
	60	300			600	250	-100	100	12.5	6.0		42	
		400		3.3	400	250	-100	80	12.5	5.5		22.5	
od.*	600	250		5.0	500	250	-21†	92	10		11	21	<b>5516</b>
Mod.*	600	250		5.0	250	250	-15†	116	20		5	9.5	
		600			600	250	-25†	90	14		16	38	
		250	70	5.0	300	250	-25†	90	16		6.5	15	
C.	80	600	90	5.0	600	250	-25†	140	24	4.0	10.5	67	
		600			300	250	-25†	140	24	4.0	4	25	
	80	600	90	5.0	600	250	-60	75	15	5.0		32	
		600			400	250	-60	75	15	5.0		21	
C.	156	600	90	5.0	450	250	-40	75	15	2.0		21	
od.	80	475	75	3.3	475	250	-90	63	10	4.0		22	
		300			300	250	-90	60	15	5.0		12	
C.	50	300	50	2.0	300	250	-60	50	5.0	3.0		7	<b>5763</b>
	175	300	50	2.0	300	250	-75	40	4.0	1.0		2.1	
	175	300	50	2.0	300	250	-100	35	5.0	1.0		1.3	
	30	250	40	1.5	250	250	-39	40	5.6	1.0		6.4	

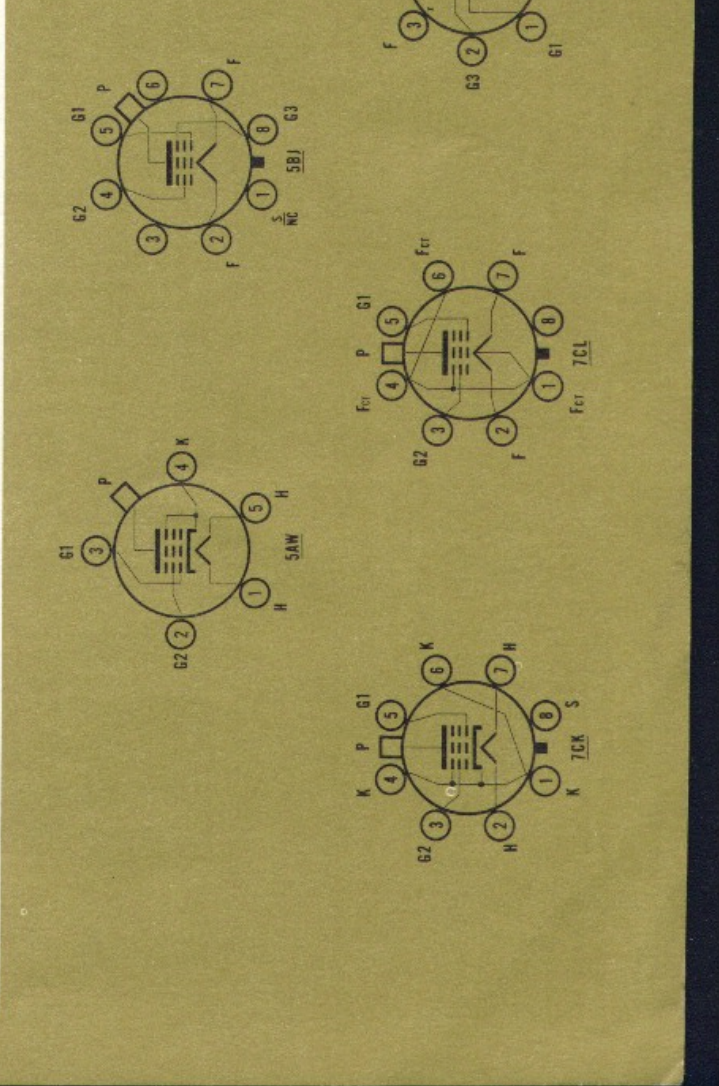
Intermittent Mobile Service) or ICAS (Intermittent Commercial and Amateur Service).  
 plate.  
 and decrease bias approximately 3 to 4 volts.





Model	Grid	Heater	W <sub>0.1</sub>	W <sub>0.2</sub>	W <sub>0.3</sub>	W <sub>0.4</sub>	W <sub>0.5</sub>	W <sub>0.6</sub>	W <sub>0.7</sub>	W <sub>0.8</sub>	Class
<b>HY1269</b>	25										Class B R-F Amp. Class C Amp. & Os
	16.5										Class C Plate Mod.
	30	5BL Thoriated Fil.	6.0 12.0	3.2 1.6	0.3	17.0	8.5				Class A <sub>1</sub> Amp. & M Class AB <sub>2</sub> Amp. & M Class C Amp. & Os
	20										Class C Plate Mod.
<b>5516</b>	15	7CL Oxide Fil.	6.0	0.7	0.12	8.5	6.5				Class A <sub>1</sub> Amp. & M Class AB <sub>1</sub> Amp. & M Class AB <sub>2</sub> Amp. & M Class C Amp. & Os
	15										Class C Amp. & Os
	10										Class C Plate & M
	12										Class C Amp. & Os
	8										Class C Tripler Class C Plate Mod.
<b>5763</b>	12	9K Heater	6.0	0.75	0.3	9.5	4.5				Class C Amp. & Os
	12										Class C Doubler
	12										Class C Tripler
	8										Class C Plate Mod.

★ CCS (Continuous Commercial Service) values are given unless noted as IMS (Interr)  
 \* Typical operation values are for two tubes; load resistance value is for plate to  
 † Grid return to c.t. a-c filament supply. If d-c supply is used, return grid to F... c  
 ‡ Current for audio applications is at maximum signal input.





# RF TRANSMITTING AND AUDIO (cont'd)

SERVICE	MAXIMUM RATINGS							TYPICAL OPERATION								
	Max. Freq. Mc.	Plate Volts	Screen Volts	Plate Ma.	Grid Ma., D-C	Screen Watts	Plate Volts	Screen Volts	Grid Volts	Plate Ma. †	Screen Ma. †	Grid Ma., D-C	Drive Watts	Load Resistance Kilohms	Output Watts	TYPE
A	160	300	250	60	3.0	2.5	300	200	-45	55	3.0	0.75	1.5	Rp = 63K, Gm = 4300		5812
							250	250	-24.5	40	1.8				7	
B	400	400	400			3.0	350	250	-18	65	8.5	Gm = 5200	4.2	11.3	5881	
	400	400	400			3.0	250	250	-16	140	16.0	Gm = 5500	5	14.5		
	400	400	400			3.0	360	270	-22.5	140	11.0		3.8	18		
	400	400	400			3.0	360	270	-22.5	205	16.0		3.6	47		
C	600	250	125			3.0	600	180	-45	200	23			7	6146	
	600	250	125			3.0	400	190	-40	228	25			4		
	600	250	125			3.0	600	165	-44	207	17	1.1	0.2	6.8		
	60	600	250	140	3.5	3.0	400	175	-41	232	18	1.6	0.2	3.7		62
	175	600	250	140	3.5	3.0	600	150	-58	112	9	2.8	0.2	52		52
D	60	480	250	117	3.5	2.0	475	135	-77	94	6.4	2.0	3.0	25	6216	
	50	300	200	Ik = 110	1.0	1.0	100	100	-3	72	3	Rp = 18.5K, Gm = 12,800		3.8		
E	50	300	200	Ik = 110	1.0	1.0	200	100	-6	51	4	Gm = 8800	4.5	8.8		
	50	300	200	Ik = 110	1.0	1.0	300	150	-50	63	8	2.0	0.3	4		

Intermittent Mobile Service) or ICAS (Intermittent Commercial and Amateur Service).  
 † plate.  
 and decrease bias approximately 3 to 4 volts.

# VOLTAGE REGULATOR AND REFERENCE

SERVICE	MAXIMUM RATINGS			APPLICATION			TYPICAL OPERATION			
	Operating Ma.	Ambient Temperature	Max. *	Voltage Regulator	Min. Supply Volts, D-C	Operating Volts, D-C	Max. Shunt Capacitor $\mu$ f	Regulation	Average Volts	TYPE
		55 to 140°C			185	150	0.1	2		0A2 +



# BEAM PENTODES...R-F

TYPE	DESCRIPTION		CATHODE			CAPACITY			APPLICAT
	Max. Plate Watts	Basing	Heater Filament	Volts	Amperes	Cgp Max.	Cin	Cou	
<b>5812</b>	10	7CQ	Oxide Fil.	6.0	0.65	0.2	9.0	7.4	Class C Amp. & Os Characteristics (St
	23	7S	Heater	6.3	0.9				
	23								
	23								
<b>6146</b>	20	7CK	Heater	6.3	1.25	0.22	13.5	8.5	Class A <sub>1</sub> Amp. Class A <sub>1</sub> Push-pull Class AB <sub>1</sub> Push-pul Class AB <sub>2</sub> Push-pul
	20								
	20								
	20								
<b>6216</b>	10	9CE	Heater	6.3	1.2	0.37	12.3	6.7	Class AB <sub>1</sub> Amp. & N Class AB <sub>2</sub> Amp. & N Class C Amp. & Os Class C Amp. & Os Class C Plate Mod. Filter Reactor Class A Amp. Class C Amp. & Os Class C Doubler
	10								
	10								
	10								

★ CCS (Continuous Commercial Service) values are given unless noted as IMS (Inter  
 \* Typical operation values are for two tubes; load resistance value is for plate to  
 † Grid return to c.t. a-c filament supply. If d-c supply is used, return grid to F— c  
 ‡ Current for audio applications is at maximum signal input.

# GASEOUS TUBES...VOL

TYPE	DESCRIPTION		CONSTRUCTION	
	Class	Basing	Base	Starting, Ma.



30	-55 to +90°C	Voltage Regulator	185	150	0.1	2	OA2 †	
Same as 6626 below								
40	-55 to +90°C	V. Regulator & Reference	Same as 6626. Tested for military applications					OA2WA † ‡
30	-55 to +90°C	Voltage Regulator	105	75		5	OA3 (VR75)	
30	-55 to +90°C	Voltage Regulator	133	108	0.1	1	OB2 †	
Same as 6627 below.								
30	-55 to +90°C	V. Regulator & Reference	Same as 6627. Tested for military applications					OB2WA † ‡
30	-55 to +90°C	Voltage Regulator	125	90		5	OB3 (VR90)	
40	-55 to +90°C	Voltage Regulator	133	108		2	OC3 (VR105) †	
40	-55 to +90°C	Voltage Regulator	185	150		3.5	OD3 (VR150) †	
30	-55 to +150°C	Voltage Regulator	165	148	0.1	2	6626	
10	-55 to +150°C	Voltage Reference	165	148	Stability=0.2V	0.5	6626/OA2WA †	
30	-55 to +150°C	Voltage Regulator	130	108	0.1	1.5	6627	
10	-55 to +150°C	Voltage Reference	130	107	Stability=0.2V	0.2	6627/OB2WA †	

at all times.  
any specifications.

# CONTROL TUBES

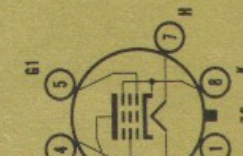
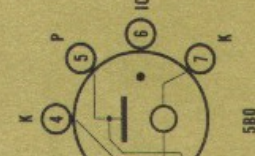
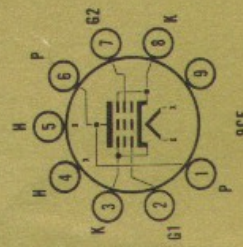
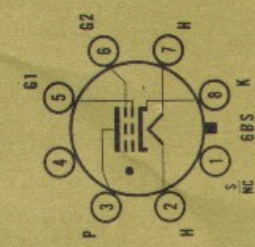
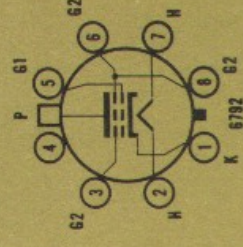
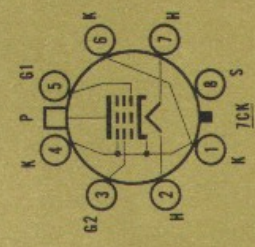
## MAXIMUM RATINGS

## SERVICE

## CHARACTERISTICS

APPLICATION		SERVICE		CHARACTERISTICS												
Unregulated D-C Supply	Grid Volts	Screen Volts	Cathode Ma.	Anode Watts	Screen Watts	Grid Circuit Megohms	Anode KV	Grid Volts	Screen Volts	Anode Ma.	Screen Ma.	Anode Res. Megohms	Trans-Conductance	Amp. Factor	TYPE	
55	-125	350	10	25	1.0	3	Shunt Regulator	25	-18	200	1.0	0.1	10	195	—	6792
55	-125	—	10	25	—	3	Characteristics	25	-8.4	—	1.0	—	8.2	185	1515	2050
= 1300V	-10 & -250*	Ik = 0.1A†, Peak Ik = 1.0A, Surge Ik = 10A†; Max Ic <sub>1</sub> = 10ma.; Max Ec <sub>2</sub> = -10 to -100V*; Max. Ic <sub>2</sub> = 0.01A														
= 360V	-10 & -250*	Ik = 0.2A†, Peak Ik = 1.0A, Surge Ik = 10A†; Max Ic <sub>1</sub> = 10ma.; Max Ec <sub>2</sub> = -10 to -100V*; Max. Ic <sub>2</sub> = 0.01A														

ion 0.1 sects.





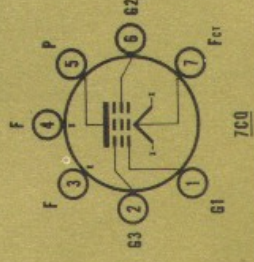
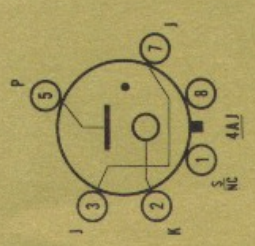
<b>OA2 †</b>	Glow Tube—150 Volts	5B0	7-pin Min.	75	5
<b>OA2WA † ‡</b>	Glow Tube—150 Volts	5B0	7-pin Min.		S
<b>OA3 (VR75)</b>	Glow Tube— 75 Volts	4AJ	6-pin Octal	100	5
<b>OB2 †</b>	Glow Tube—105 Volts	5B0	7-pin Min.	75	5
<b>OB2WA † ‡</b>	Glow Tube—105 Volts	5B0	7-pin Min.		S
<b>OB3 (VR90)</b>	Glow Tube— 90 Volts	4AJ	6-pin Octal		5
<b>OC3 (VR105) †</b>	Glow Tube—105 Volts	4AJ	6-pin Octal	100	5
<b>OD3 (VR150) †</b>	Glow Tube—150 Volts	4AJ	6-pin Octal	100	5
<b>6626</b> <b>6626/OA2WA † ‡</b>	Glow Tube—150 Volts	5B0	7-pin Min.	75	5
<b>6627</b> <b>6627/OB2WA † ‡</b>	Glow Tube—105 Volts	5B0	7-pin Min.	75	5
				—	6
				75	5
				—	6

\* Use sufficient series resistance to limit current to not more than the rated value.  
 † JAN version is also available. ‡ USN version is also available tested to U. S. N.

**DESCRIPTION CONSTR. CATHODE**

TYPE	Class	Base	Type	Volts	Amperes	Connection	Anode Volt
<b>6792</b>	Beam Tetrode	6792 8-pin Octal	Heater	6.3	0.45	Tetrode Triode	25KV 25KV
<b>2050</b>	Thyratron	6BS 8-pin Octal	Heater	6.3	0.6	Tetrode	650V Inv. 180V Inv.

\* During conduction and before conduction. † Averaging time = 30 secs. ‡ Durat





# RECTIFIERS

MAXIMUM RATINGS			F-W CIRCUIT			INPUT		SPECIAL NOTES	
Plate Ma., D-C	Peak Inverse Volts	Voltage Drop	Max. RMS Volts, Plate to Plate	Output		Microfarads	TYPE		
				Volts	Ma.				
175 (cap.)	2400**		900	950	150	4	5R4GY	Capacitor input.	
250 (choke)*		950	950	750	175	10		Choke input.	
62.5 (cap.)	1400	60	400	345	125	4	5Y3WGTA	Tested for military use. Operation permitted up to 50,000 ft. altitude.	
75.0 (choke)			500	390	125	10			
125	7500		5300	2390	250		816	Choke input required.	
250	10,000	15	6000	2700	500	1.5	866A	Choke input required.	
			4000	1800	500	4.5			
			3000	1350	500	3.4			

Reliable version of type 6AL5. Ratings and characteristics same as those for type 6AL5.

62.5 (cap.)	1400	60	400	345	125	4	6004	High-altitude version of 5Y3GT. JAN approved.
75.0 (choke)			500	390	125	10		

# LOW, MEDIUM, AND HIGH-MU

CAPACITY MAX. RATINGS				SERVICE				APPLICATION										CHARACTERISTICS & TYPICAL OPERATION																
Plate Volts	Grid Volts	Plate Ma.	Grid Ma., D-C	Plate Volts	Grid Volts	Plate Ma.	Grid Ma., D-C	Plate Volts	Grid Volts	Plate Ma.	Grid Ma., D-C	Grid Drive Watts	Plate Res. Ohms.	Trans-Conductance	Load Resistance	Amp. Factor	Output Watts	TYPE																
																			135	5	15	2.5	90	-2.5	3.7	0.2	8300	1800	15	2	3A5			
135	-30	15	2.5	135	-20	30	5.0	—	—	—	—	—	—	—	—	—	—	—	—															
250	125			135	250▲	125		280	7000	2										6A57G														
150				150	100▲	15		4500	12000	55										6J4														
1500	peak = +125	175		1500	-4.5	350		88	6.5											5514														
1500				1500	-4.5	200		46	2.0																									
1500				1250	0	350		84	5.5																									
1500				1000	0	350		88	6.0																									
1500	-200	175		1500	-106	175		60	12																									
1250				1250	-84	175		60	9.9																									
1250	-200	175		1000	-60	175		60	8.7																									
1250				1250	-84	142		60	10.0																									
1000				1000	-37	100		37	3.3																									
150				150	240▲	8.2		6400	5500	35											5670													
1.0	300							Reliable version of 2C51																										



TYPE	DESCRIPTION			CONSTR.			CATHODE		
	Class	Basing	Base	Heater Filament	Volts	Amperes	Peak Plate		
5R4GY	Full-Wave	5T	5-pin Octal	Fil.	5.0	2.0	650		
5Y3WGTA	Full-Wave	5T	5-pin Octal	Fil.	5.0	2	400 400		
816	Half-Wave, Gaseous	4P	4-pin	Fil.	2.5	2	500		
866A	Half-Wave, Gaseous	4P	4-pin	Fil.	2.5	5	1000		
5726	Full-Wave	6BT	7-pin Min.	Htr.	6.3	0.3			
6004	Full-Wave	2AJ	5-pin Octal	Fil.	5.0	2	400 400		

\* For choke of not less than 5 henrys.  
 \*\* No load condition for operation up to 40,000 feet altitude.

## TRIODES...LO

TYPE	DESCRIPTION			CONSTR.			CATHODE		
	Class	Max. Plate Dis. Watts	Base	Heater Filament	Volts	Amperes	Cgp		
3A5	Med.-Mu Duotriode	0.5 1.0	7BC	Fil.	1.4 2.8	0.22 0.11	3.2 0.9		
6AS7G	Low-Mu Duotriode	13	8BD	Heater	6.3	2.5	10.5 6.8		
6J4	High Freq. Triode		7BQ	Heater	6.3	0.4			
5514	Power Triode (supplants the HY30Z, HY40 HY40Z, HY51A, HY51B, and HY51Z)	65 65	4B0	Thor. Fil.	7.5	3.0	7.9 7.1		
5670	High Freq. Duotriode	43	8CJ	Heater	6.3	0.35	1.1 2.2		



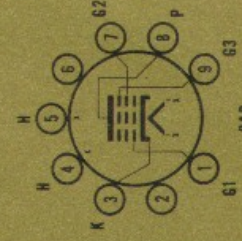
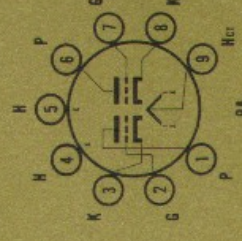
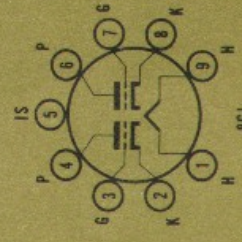
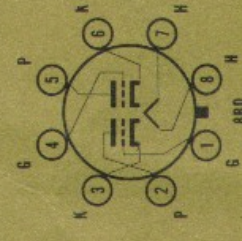
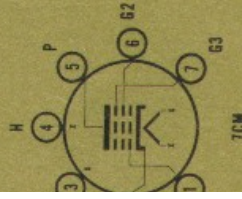
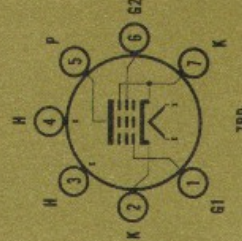
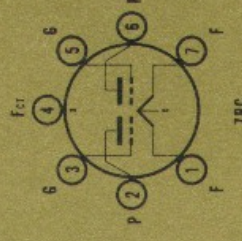
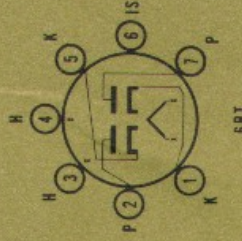
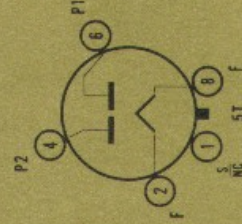
0.5	300	20	Class A Amp. (tested for military use)	100 250	0 -8.5	11.8 10.5	6250 7700	3100 2200	19.5 17	<b>5814A</b>
0.5			Same as 5814A. Tested for military aircraft use. JAN version of 12AU7.							<b>5814WA</b>
0.4	300	15	Class A <sub>1</sub> Amp.	100	50▲	8.5	7100	5300	38	<b>6099</b>
300	300	-40	Class C Amp. & Osc.*	150	-10	30	10200	Gc=1900, osc peak=3.0V	3.5	
300	300		Mixer	150	810▲	4.8				

or military aircraft use. Electrically identical to 6099 except sections not balanced.

**6101/6J6WA**

# MODES...RECEIVING

Feature	MAX. RATINGS			SERVICE	CHARACTERISTICS & TYPICAL OPERATION								
	Plate Volts	Screen Volts	Plate Watts		Screen Watts	Plate Volts	Grid Volts	Plate Ma.	Screen Ma.	Plate Res. Megohms	Trans-Conductance	Cutoff Volts (Approx.)	TYPE
	180	140	1.7	0.5	Class A <sub>1</sub> Amp.	28	28	28	1.0	1.0	2500	-4.5	<b>6AJ5</b>
Control	180	140	1.7	0.75	Class A <sub>1</sub> Amp. (Ec3=0V) Class A <sub>1</sub> Amp. (Ec3=-3V)	120	120	120	3.5	0.11	3200	-7.5	<b>6AS6</b>
					Reliable version of type 6AK5.	Ratings and Characteristics identical to type 6AK5.							<b>5654</b>
					Reliable version of type 6BA6.	Ratings and Characteristics identical to type 6BA6.							<b>5749</b>
10 stages	300	150	1.25	0.25	Pentode Class A	250	100	100	2.0	0.014	1000	-8.0	<b>5879</b>
	250	150	1.5		Triode Class A	250	100	100	0.017	1240			



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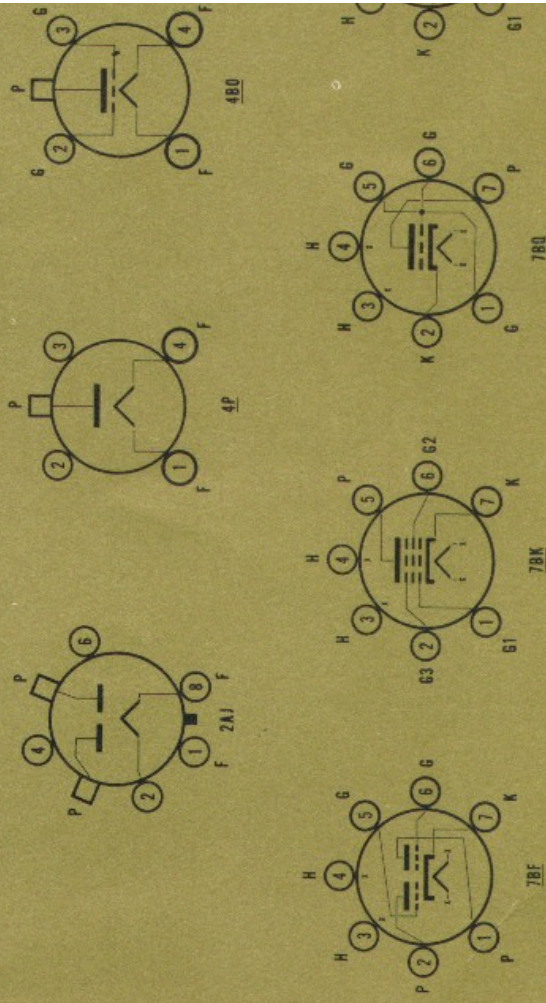


<b>5814A</b>	Med.-Mu Duotriode	2.75	9A	9-pin Min.	Heater	6.3 12.6	1.75 0.35	1.5	1.6
<b>5814WA</b>	Med.-Mu Duotriode	2.75	9A	9-pin Min.	Heater	6.3 12.6	1.75 0.35	1.5	1.6
<b>6099</b>	Med.-Mu Duotriode (balanced sections) Reliable 6J6	1.5 1.5	7BF	7-pin Min.	Heater	6.3	0.45	1.6	2.2
<b>6101/6J6WA</b>	Med.-Mu Duotriode								Reliable 6J6 f

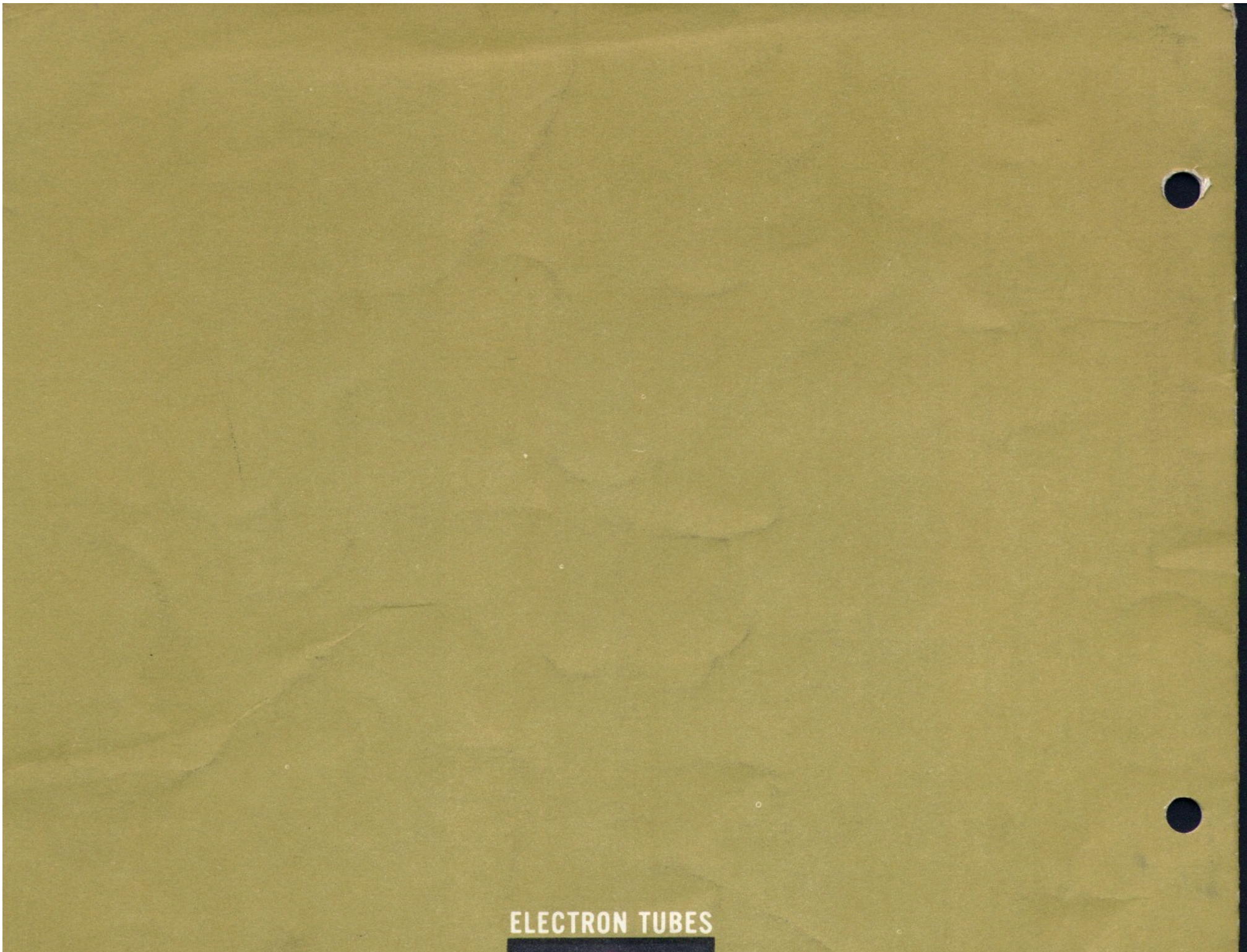
\* Values are for two tubes.  
▲ Cathode bias resistor.

# PENTOD

TYPE	CONSTRUCTION			CATHODE			CAPACITY		
	Basing	Base	Heater Filament	Volts	Amperes	Cgp Max.	Cin	Cout	
<b>6AJ5</b>	7BD	7-pin Min.	Heater	6.3	0.17	0.02	4.0	2.8	Low B+
<b>6AS6</b>	7CM	7-pin Min.	Heater	6.3	0.175	0.07	3.9	2.2	G3 Cont
<b>5654</b>	7BD	7-pin Min.	Heater	6.3	0.175				
<b>5749</b>	7BK	7-pin Min.	Heater	6.3	0.3				
<b>5879</b>	9AD	9-pin Min.	Heater	6.3	0.15	0.11	2.7	2.4	For Aud Input Si







ELECTRON TUBES





SEMICONDUCTORS

**CBS-HYTRON**, Danvers, Massachusetts

A DIVISION OF COLUMBIA BROADCASTING SYSTEM, INC.

PA-5