



PENTAGRID CONVERTER

RENEWAL TYPE FOR MAJESTIC RECEIVERS

	NEWEUNE THE TON MINDESTTO NEOCHTERO										
	Heater •	Coated Unipotential	Cathode								
i	Voltage	6.3	a-c or d-c volts								
	Current	0.3	amp.								
	Overall Length		4-9/32" to 4-17/32"								
	Seated Height		3-21/32" to 3-29/32"								
	Maximum Diamete	r (without shield)	1-9/16"								
		-fitting shield)	ST-12								
	Cap	-	Small Metal								
	Cap Base ^*		Small 7-Pin								

- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

 Requires a different socket than the medium 7-pin base.

 * Basing arrangement is the same as for the 6A7, except that the external shield on the 6A7S is connected to cathode.

Typical Operating Conditions and Curves for the 6A7S are the same as for Type 648.



6A8, 6A8-G, 6A8-GT PENTAGRID CONVERTER

1	ed Unipotential		_		
Voltage	6.3	a-c or d-c volts			
Current	0.3	amp.			
Direct Interelectrode	Cap. 0 648	6 A8-G	648-GT		
Grid #4 to Plate	0.06	0.26	0.26 μμf		
Grid #4 to Grid #2	0.1	0.19	0.19 µµf		
Grid #4 to Grid #1	0.09	0.16	0.16 µµf		
Grid #1 to Grid #2	0.8	1.1	1.1 ppf		
Grid #4 to All Other					
Electrodes (R-F input) 12	9.5	9.5 µµf		
Grid #2 to All Other El	ectrodes				
Except Grid #1 (0sc.	Output) 5	4.6	4.6 µµf		
Grid #1 to All Other El	ectrodes				
Except Grid #2 (Osc.	Input) 6.5	6	6 µµf		
Plate to All Other		,			
Electrodes (Mixer Out	put) 12	12	12 µµf		
Overall Length	{3-1/8" max.	\begin{cases} \{4-7/32 \text{* to} \\ 4-15/32 \text{*} \end{cases}	{3-5/16* max.		
Seated Height	{2 -9 /16" max.	3-21/32 to 3-29/32	{2-3/4" max.		
Maximum Diameter	1-5/16	1-9/16*	1-5/16*		
Bulb	Metal Shell, MT-8	ST-12	T-9		
Сар	Miniature	Skirted Min.	{Skirted Min. Style C		

- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

 With shell of 6A8 connected to cathode, and with close-fitting shield on 6A8-G and 6A8-GT connected to cathode.

→ Indicates a change.

Dec. 1, 1941

DATA



6A8, 6A8-G, 6A8-GT

PENTAGRID CONVERTER

(continue	d from	precedi	ng pag	e)			1
64B 648-G						3-G1	
Base		Wafer 8-Pin	Small Octa	1 Shell 1 8-Pin	Small Octal Sle	Wafer 8-Pin, eeve	
Basing Designation	8	BA	G	-8A	GT	-8 A	
6A8, Shell					n 5 - G		-
Pln 1 6A8-G, No Con.	_	•	•		n 6 – G		1
[6A8-GT, Base Sleeve		180			n 7 - He		1
Pin 2 - Heater	96	\mathfrak{M}_{b}			n 8 – Ca		
Pin 3 - Plate	2	1 0		Ca	p G	rid #4	
Pin 4 - Grids #3 & #5	0.	Ó				A	
Mounting Position	BOTTOM	VIEW				Any	
CON	VERTER	SERVI	ICE				
Plate Voltage				300	max.	volts	l
Screen (Grids #3 & #5) Vo	ltage					volts	1
Screen Supply Voltage	5		ı			volts	
Anode-Grid (Grid #2) Vol	tage					volts	
Anode-Grid Supply Voltage	e *					volts	
Control-Grid (Grid #4) Vo				0	min.	volts	
Plate Dissipation	•			1.0	max.	watt	
Screen Dissipation				0.3	max.	watt	
Anode-Grid Dissipation				0.75	max.	watt	
Total Cathode Current				14	max.	ma.	
Typical Operation:						_	
Plate Voltage			100	250		volts	
Screen Voltage			50	100)	volts	l
Anode-Grid Voltage			1 00	-	.*	volts	
Anode-Grid Supply Volta	age		- 1.5	250		volts	l
Control-Grid Voltage			000	50000 50000		volts	
OscGrid (Grid #1) Re	sistor		0.6		approx	ohms	
Plate Resistance -	+ 0000		360	550		umhos	11
Conversion Transconduc Conver. Transcond. (ap			7 00	550	,	HIIIIOS	
with Control-Grid Bi							
-20 volts	as 01		3	_		µmhos	
Conver. Transcond. (ap	prox. 1					r03	
with Control-Grid Bi	•						ŀ
-35 volts			_	ϵ	5	µmhos	
Plate Current			1.1	3.5		ma.	
Screen Current			1.3	2.7		ma.	
Anode-Grid Current			2	4	ļ.	ma.	
Oscillator-Grid Curren	t		. 25	0.4		ma.	
Total Cathode Current			4.6	10.6	5	ma.	
NOTE: The transconductance of is 1150 micromhos under screen volts, 55; contr and oscillator—grid vol	ions: pla	ate vol	ts, 250;	-			
* Anode-grid supply voltages 20000-ohm voltage-dropping	in ex	cess o	f 200	volts r	equire	use of	
For Typical Circuit and Coil Design Details, refer to Type 2A7.							
Indicates a change.							1



