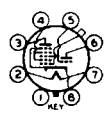
6J8-G

TRIODE-HEPTODE CONVERTER

Heater ■	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances:		
Heptode Grid #1 to Heptode Plate●	0.01 max.	μμf
Heptode Grid #1 to Triode Plate●	0.015 max.	μμf
Heptode Grid #1 to Triode Grid & Heptode Grid #3○	0.13	μμf
Triode Grid to Triode Plate	2.2	μμf
Heptode Grid #1 to All Other Electrodes (R-F Input)	4.4	μμf
Triode Plate to All Other Electrodes (Osc. Output)	5.5	μμf
Triode Grid & Heptode Grid #3 to All Other Electrodes (Osc. Input)	11.7	μμf
Heptode Plate to All Other Electrodes (Mixer Output)	8.8	μμf
Overall Length	4-7/32" to 4-15/32"	
Seated Height	3-21/32" to 3-29/32"	
Maximum Diameter	1-9/16"	
Bulb	ST-12	
Cap	Skirted Miniature	
Base	Small Shell Octal 8-Pin	

Pin 1 – No Connection
Pin 2 – Heater
Pin 3 – Heptode Plate
Pin 4 – Heptode Grids #2 & #4
Pin 5 – Triode Grid & Heptode Grid #3
Pin 6 – Triode Plate
Pin 7 – Heater
Pin 8 – Cathode



BOTTOM VIEW (G-8H)

Mounting Position: Any

CONVERTER SERVICE

Heptode Plate Voltage		250 max.	volts
Heptode Screen (Grids #2 & #4) Voltage		100 max.	volts
Triode Plate Supply Voltage*		250 max.	volts
Typical Operation and Characteristics:			
Heptode Plate Voltage	100	250	volts
Heptode Screen Voltage	100	100	volts
Heptode Control-Grid Voltage (Grid #1)	-3	-3	volts
Triode Plate Voltage	100	-	volts
Triode Plate Supply Voltage*	-	250	volts
Triode Grid Resistor	50000	50000	ohms
Heptode Plate Resistance	0.9	4.0	approx. megohms
Conversion Transconductance	250	290	μmhos
Heptode Control-Grid Bias for Conversion Transcond. of 2 μmhos	-	-20	volts
Heptode Plate Current	1.4	1.3	ma.
Heptode Screen Current	3.0	2.9	ma.
Triode Plate Current	3.0	5.0	ma.
Triode Grid & Heptode Grid #3 Current	0.3	0.4	ma.

NOTE: The transconductance of the triode unit (not oscillating) is approximately 1600 μmhos under the following conditions: triode plate volts, 150; triode grid volts, -3.

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

● With shield-can connected to cathode.

* Applied through 20000-ohm dropping resistor.

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OPERATION CHARACTERISTIC