

6J8-GA

TRIODE HEPTODE CONVERTER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	a.c. or d.c. volts
Current	0.45	amp.

Direct Interelectrode Capacitances (With Standard Shield)

Heptode Grid No. 1 to Heptode Plate	0.01 max.	uuF
Heptode Grid No. 1 to Triode Grid & Heptode Grid No. 3	0.13	uuF
Heptode Grid No. 1 to Triode Plate	0.015	uuF
Triode Grid & Heptode Grid No. 3 to Triode Plate	2.2	uuF
R.F. Input (Heptode Grid No. 1 to All Other Electrodes)	4.4	uuF
Osc. Output (Triode Plate to All Other Electrodes)	5.5	uuF
Osc. Input (Triode Grid & Heptode Grid No. 3 to All Other Electrodes)	11.7	uuF
Mixer Output (Heptode Plate to All Other Electrodes)	8.8	uuF

Mechanical:

Mounting Position	Any
Maximum Overall Length	4-15/32"
Maximum Seated Height	3-29/32"
Maximum Diameter	1- 9/16"
Bulb	ST-12
Cap	Skirted Miniature
Base	Small Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW	G8H

Pin 1 - No Connection

Pin 2 - Heater

Pin 3 - Heptode Plate

Pin 4 - Heptode Grids
No. 2 & No. 4

Pin 5 - Heptode Grid
No. 3 & Triode Grid



Pin 6 - Triode

Plate

Pin 7 - Heater

Pin 8 - Cathode

Cap - Heptode

Grid No. 1

CONVERTER

Maximum Ratings, Design-Centre Values:

Heptode Plate Voltage	300 max. volts
Heptode Screen (Grids No. 2 & No. 4) Voltage	100 max. volts
Heptode Screen Supply Voltage	300 max. volts
Heptode Control-Grid (Grid No. 1) Voltage	0 min. volts
Triode Plate Supply Voltage	250 max. volts
Heptode Plate Dissipation	0.9 max. watt
Heptode Screen Dissipation	0.4 max. watt
Triode Plate Dissipation	0.8 max. watt
Cathode Current	14.0 mA

6J8-GA

TRIODE HEPTODE CONVERTER

Typical Operation:

Heptode Plate Voltage	100	250	volts
Heptode Screen Voltage	100	100	volts
Heptode Control-Grid Voltage	-3	-3	volts
Triode Plate Voltage	100	250	volts
Triode Grid Resistor	50000	50000	ohms
Heptode Plate Resistance	0.9	4.0	megohms
Conversion Transconductance	250	290	umhos
Heptode Control Grid Bias for Conver. Transcond. = 2 umhos	-20	-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 No. 3 Current	0.3	0.4	mA

TRIODE SECTION

Plate Voltage	100	volts
Grid Voltage	0	volts
Amplification Factor	17	
Plate Resistance	10600	ohms
Transconductance	1600	umhos
Plate Current	7	mA

△ Applied through a 20000 ohm dropping resistor.

6J8-G OPERATION CHARACTERISTICS

