

HEPTODE
PENTAGRID CONVERTER

Heater Type

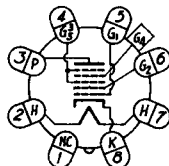
Glass Bulb



The 6D8G is a pentagrid type converter tube designed for service as a combined oscillator and mixer in storage battery or a-c operated receivers requiring a low heater current tube.

RATINGS

Heater Voltage (a-c or d-c)	6.3 volts
Heater Current	0.150 amp
Max. Plate Voltage	250 volts
Max. Screen Voltage	100 volts
Max. Grid #2 Voltage	200 volts
Max. Grid #2 Supply	250† volts
Min. Grid #4 Bias	-3 volts
Max. Cathode Current	13 ma



BOTTOM VIEW OF SOCKET

DIRECT INTERELECTRODE CAPACITANCES*

Grid #4 to Plate	0.3	μf
Grid #4 to Grid #2	0.2	μf
Grid #4 to Grid #1	0.2	μf
Grid #1 to Grid #2	1.3	μf
Grid #4 to all other Elements (R-F input)	8.8	μf
Grid #1 to all other Elements (Osc. input)	6	μf
Grid #2 to all other Elements (Osc. output)	5	μf
Plate to all other Elements (Mixer output)	11	μf

FREQUENCY CONVERTER - SUPERHETERODYNE CIRCUIT

Plate Voltage	135	250	volts
Screen (Grids #3 and #5) Voltage	67.5	100	volts
Anode Grid (#2) Voltage	135		volts
Anode Grid Supply Voltage		250†	volts
Control Grid (#4) Bias	-3	-3	volts
Oscillator Grid (#1) Resistor	50000	50000	ohms
Plate Resistance	0.4	0.32	megohm
Conversion Transconductance	325	500	μmhos
Plate Current	1.2	3.3	ma
Screen Current	2	3.2	ma
Anode Grid Current	3.4	4	ma
Oscillator Grid Current	0.45	0.5	ma
Control Grid Bias	-25	-38.5	volts
(For Conversion Transconductance = 10 μmhos)			
Grid #1 to Grid #2 Transconductance	1150	1000	μmhos
(At 0 volts bias on Grid #1)			

†Applied through a 20000 ohm series resistor, bypassed by a 0.1 μf. condenser.

*With tube shield connected to cathode.

