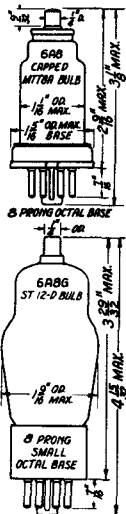


6A8 6A8G

RAYTHEON

6A8 6A8G



HEPTODE
PENTAGRID CONVERTER
Heater Type
Metal Bulb-6A8 Glass Bulb-6A8G

The 6A8 is a pentagrid type converter tube designed for service as a combined oscillator and mixer in storage battery or a-c operated superheterodyne receivers. The ratings and electrical characteristics are identical with those of the type 6A7.

RATINGS

Heater Voltage (a-c or d-c)	6.3 volts
Heater Current	0.3 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	14 ma

DIRECT INTERELECTRODE CAPACITANCES

	6A8*	6A8G**	
Grid #4 to Plate	0.05	0.5	μuf
Grid #4 to Grid #2	0.1	0.2	μuf
Grid #4 to Grid #1	0.09	0.2	μuf
Grid #1 to Grid #2	0.08	1.3	μuf
Grid #4 to all other El. (r-f input)	12.5	10	μuf
Grid #1 to all other El. (osc. input)	6.5	6	μuf
Grid #2 to all other El. (osc. output)	5	5	μuf
Plate to all other El. (mix. output)	12.5	10	μuf

FREQUENCY CONVERTER - SUPERHETERODYNE CIRCUIT

Plate Voltage	100	250	volts
Screen (Grids #3 and #5) Voltage	50	100	volts
Anode Grid (#2) Voltage	100		volts
Anode Grid Supply Voltage		250†	volts
Control Grid (#4) Bias	-1.5	-3	volts
Oscillator Grid Resistor	50000	50000	ohms
Plate Resistance	0.6	0.3	megohm
Conversion Transconductance	360	550	μmhos
Plate Current	1.1	3.5	ma
Screen Current	1.3	2.7	ma
Anode Grid Current	2.0	4.0	ma
Oscillator Grid Current	0.25	0.4	ma
Control Grid Bias (approximate)	-20	-45	volts

(For Conversion Transconductance = 2 μmhos)

The voltage between heater and cathode should be kept as low as possible where they are not directly connected.

*With shell connected to cathode.

**With tube shield connected to cathode.

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

