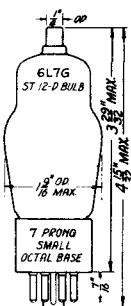
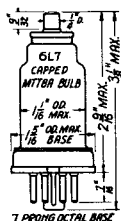


6L7 6L7G

RAYTHEON

6L7 6L7G



HEPTODE
PENTAGRID MIXER or AMPLIFIER
Heater Type
Metal Bulb-6L7 Glass Bulb-6L7G

The 6L7 is a pentagrid type tube designed for service as a mixer in storage battery or a-c operated superheterodyne receivers using a separate oscillator.

RATINGS

Heater Voltage	6.3	volts
Heater Current	0.3	amp
Max. Plate Voltage	250	volts

DIRECT INTERELECTRODE CAPACITANCES

	6L7*	6L7G**	
Grid #1 to Plate	0.0005	0.003 max.	μuf
Grid #1 to Grid #3	0.12	0.15	μuf
Grid #3 to Plate	0.025	0.25	μuf
Grid #1 to all other Elements	8.5	5.8	μuf
Grid #3 to all other Elements	11.5	11.5	μuf
Plate to all other Elements	12.5	9	μuf

AMPLIFIER - CLASS A

Plate Voltage	250	volts
Screen (Grids #2 & #4) Voltage	100	max. volts
Control Grid (#1) Bias	-3	min. volts
Control Grid (#3) Bias	-3	volts
Amplification Factor	880	
Plate Resistance	0.8	megohm
Transconductance	1100	μmhos
Plate Current	5.3	ma
Screen Current	6.5	ma
Transconductance	5	μmhos

(Grid #1 Bias = -15 volts; Grid #3 Bias = -15 volts)

MIXER - SUPERHETERODYNE CIRCUIT

Plate Voltage	250	250	volts
Screen (Grids #2 & #4) Voltage	100	150	max. volts
Signal Grid (#1) Bias	-3	-6	min. volts
Oscillator Grid (#3) Bias	-10	-15	volts
Oscillator Peak Voltage (Grid #3)	12	18	volts
Plate Resistance	Greater than 1	megohm	
Conversion Conductance	350	350	μmhos
Plate Current	2.4	3.3	ma
Screen Current	7.2	9.2	ma
Signal Grid (#1) Bias	-30	-45	volts

(Conversion Conductance = 5 μmhos)

* With Shell connected to cathode.

**With tube shield connected to cathode

The D-C resistance in the oscillator grid (#3) circuit should not exceed 50000 ohms.

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

