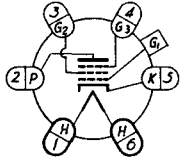


PENTODE
REMOTE CUTOFF AMPLIFIER
Heater Type Glass Bulb

The 58 is a pentode type amplifier tube with remote cutoff characteristics designed for service as a high frequency amplifier or mixer in a-c operated receivers.



BOTTOM VIEW OF SOCKET

RATINGS

Heater Voltage (a-c or d-c)	2.5	volts
Heater Current	1.0	amp
Maximum Plate Voltage	250	volts
Maximum Screen Voltage	100	volts

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	0.007 max*	μmf
Input	5.0	μmf
Output	6.5	μmf

AMPLIFIER - CLASS A

Plate Voltage	100	250	volts
Screen Voltage	100	100	volts
Grid Bias	-3	-3	volts
Suppressor	Connected to Cathode at Socket		
Amplification Factor	375	1280	
Plate Resistance	0.25	0.8	megohm
Transconductance	1500	1600	μmhos
Plate Current	8	8.2	ma
Screen Current	2.2	2	ma
Grid Bias for Transconductance = 2 μmhos	-50	-50	volts

MIXER - SUPERHETERODYNE CIRCUIT

Plate Voltage	100	250	volts
Screen Voltage	100	100	volts
Grid Bias †	-10	-10	volts
Suppressor	Connected to Cathode at Socket		

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

The shield in the dome of the tube is connected internally to the cathode.

†The grid bias is not critical with an oscillator peak voltage 1 volt less than the grid bias.

*With tube shield.

For characteristic curves refer to the types 6D6 and 6U7G. The characteristics of the 58 are the same as those of the 6D6 and the 6U7G.