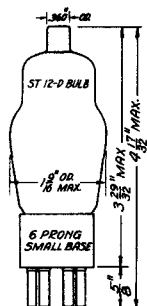
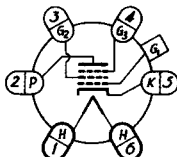


PENTODE
REMOTE CUTOFF AMPLIFIER
Heater Type Glass Bulb



The 78 is a pentode type amplifier tube with remote cutoff characteristics designed for service as a high frequency amplifier or mixer in storage battery or a-c operated receivers. The ratings and electrical characteristics are identical with those of the types 6K7 & 6K7G.



BOTTOM VIEW OF SOCKET

RATINGS

Heater Voltage (a-c or d-c)	6.3	volts
Heater Current	0.3	amp
Maximum Plate Voltage	250	volts
Maximum Screen Voltage	125	volts

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	0.007 max.*	μuf
Input	4.0	μuf
Output	11	μuf

AMPLIFIER - CLASS A

Plate Voltage	90	180	250	250	volts
Screen Voltage	90	75	100	125	volts
Grid Bias	-3	-3	-3	-3	min. volts
Suppressor				Connected to Cathode at Socket	
Amplification Factor	400	1100	1160	990	
Plate Resistance	0.315	1.0	0.8	0.6	megohm
Transconductance	1275	1100	1450	1650	μmhos
Plate Current	5.4	4	7	10.5	ma
Screen Current	1.3	1	1.7	2.6	ma
Grid Bias	-38.5	-32.5	-42.5	-52.5	volts

(For transconductance = 2 μmhos)

MIXER - SUPERHETERODYNE CIRCUIT

Plate Voltage	250	volts
Screen Voltage	100	volts
Grid Bias†	-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 internal shield is connected to the cathode within the tube.

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

*With tube shield.

For additional curves refer to the type 6K7G.

