

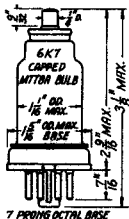
6K7
6K7G

RAYTHEON

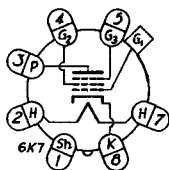
6K7
6K7G

PENTODE
REMOTE CUTOFF AMPLIFIER
Heater Type

Metal Bulb-6K7 Glass Bulb-6K7G



The 6K7 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 type 78.



BOTTOM VIEW OF SOCKET
6K7G - NO CONNECTION
TO #1 PIN

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	Input	Output	
6K7*	0.005 max.	7	12	μf
6K7G**	0.005 max.	4.5	12	μf

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.

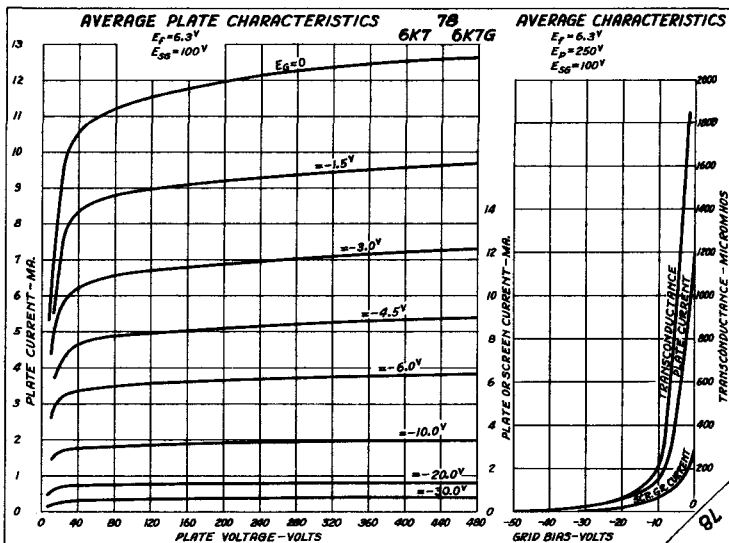
The internal shield in the 6K7G is connected to the cathode within the tube.

* With shell connected to cathode.

**With tube shield connected to cathode.

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

For additional curves refer to the type 78.



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