

6K6G

RAYTHEON

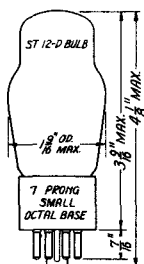
6K6G

PENTODE

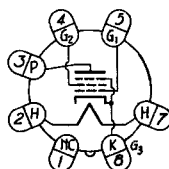
POWER AMPLIFIER

Heater Type

Glass Bulb



The 6K6G is a pentode type power amplifier tube designed for service in the output stage of storage battery or a-c operated receivers. The ratings and electrical characteristics are identical with those of the type 41.



BOTTOM VIEW OF SOCKET

RATINGS

Heater Voltage (a-c or d-c)	6.3	volts
Heater Current	0.4	amp
Maximum Plate Voltage	250	volts
Maximum Screen Voltage	250	volts

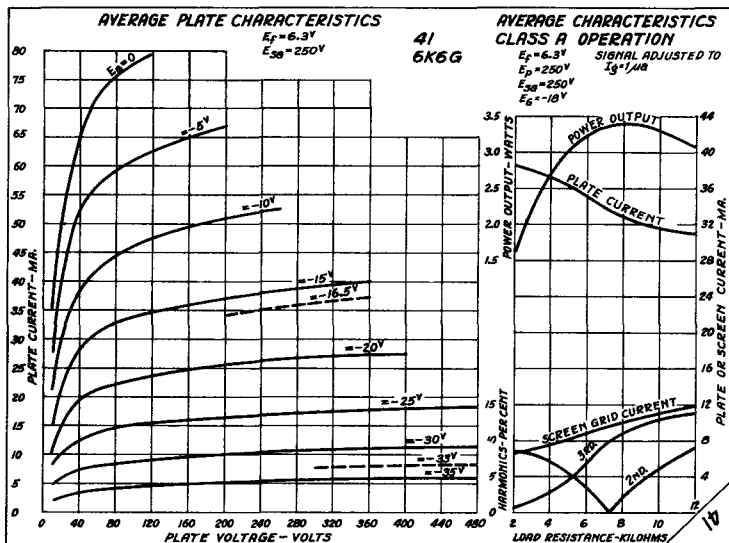
AMPLIFIER - CLASS A

Plate Voltage	100	135	180	250	volts
Screen Voltage	100	135	180	250	volts
Grid Bias	-7	-10	-13.5	-18 †	volts
Amplification Factor (approx.)	150	150	150	150	
Plate Resistance (approx.)	103500	94000	81000	68000	ohms
Transconductance	1450	1600	1850	2200	μmhos
Plate Current	9	12.5	18.5	32	ma
Screen Current	1.6	2.2	3	5.5	ma
Load Resistance	12000	10400	9000	7600	ohms
Total Harmonic Distortion	10	10	10	10	percent
Power Output	0.33	0.75	1.5	3.4	watts

Transformer or impedance input coupling devices are recommended. If resistance coupling is used, the d-c resistance in the grid circuit should not exceed 1 megohm with self-bias, or 0.1 megohm with fixed-bias.

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

†A bias of -16.5 volts and a load resistance of 7000 ohms will give power output of 3.2 watts with 7% total harmonic distortion.



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