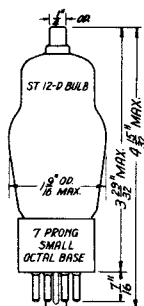


6B6G

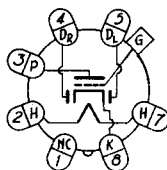
RAYTHEON

6B6G

DUO-DIODE TRIODE
DETECTOR AMPLIFIER
Heater Type Glass Bulb



The 6B6G is a duo-diode triode type amplifier tube designed for service as a combined diode detector, AVC rectifier and resistance coupled audio frequency amplifier in storage battery or a-c operated receivers. The ratings and electrical characteristics are identical with those of the type 75.



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

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	1.3	μf
Input	2.7	μf
Output	4.5	μf

AMPLIFIER - CLASS A - TRIODE SECTION

Plate Voltage	250	volts
Grid Bias	-2	volts
Amplification Factor	100	
Plate Resistance	91000	ohms
Transconductance	1100	μmhos
Plate Current	1	ma

DIODE SECTION

The two diodes are independent of each other and of the triode section except for the common cathode. The diodes may be used as a half wave or as a full wave rectifier; or one diode may be used as a half wave rectifier for detection and the other diode used as a rectifier to obtain delayed AVC voltage.

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

