

**6V6
6V6G**

RAYTHEON

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TETRODE
POWER AMPLIFIER
Heater Type

Metal Bulb-6V6 Glass Bulb-6V6G

The 6V6 is a tetrode type power amplifier tube designed for service in the output stage of storage battery or a-c operated receivers.

RATINGS

Heater Volt. (a-c or d-c)	6.3	volts
Heater Current	0.45	amp
Max. Plate Voltage	300	volts
Max. Screen Voltage	300	volts
Max. Plate and Screen		
Dissipation (total)	12.5	watts

AMPLIFIER - CLASS A

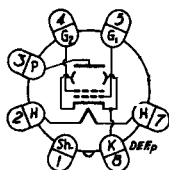
Plate Voltage	180	250	max. volts
Screen Voltage	180	250	max. volts
Grid Bias*	-8.5	-12.5	volts
Signal Peak Voltage	8.5	12.5	volts
Amplification Factor		218	
Plate Resistance		52000	ohms
Transconductance		4100	umhos
No-Signal Plate Current	29	45	ma
Max.-Signal Plate Current	30	47	ma
No-Signal Screen Current	3	4.5	ma
Max.-Signal Screen Current	4	6.5	ma
Load Resistance	5500	5000	ohms
Power Output	2	4.25	watts
Second Harmonic	5.5	4.5	percent
Third Harmonic	2.5	3.5	percent

AMPLIFIER - PUSH-PULL - CLASS AB - TWO TUBES

Plate Voltage	250	300	volts
Screen Voltage	250	300	volts
Grid Bias*	-15	-20	volts
Signal Peak Voltage (grid to grid)	30	40	volts
No-Signal Plate Current	70	78	ma
Max.-Signal Plate Current	79	90	ma
No-Signal Screen Current	5	5	ma
Max.-Signal Screen Current	12	13.5	ma
Load Resistance (plate to plate)	10000	8000	ohms
Power Output	8.5	13	watts
Third Harmonic	3.5	3.5	percent
Total Harmonics	4	4	percent

*Transformer or impedance input systems are recommended. If resistance coupling is used, the d-c resistance in the grid circuit should not exceed 0.5 megohm with self-bias, or 0.05 megohm with fixed-bias.

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



**BOTTOM VIEW OF SOCKET
6V6G-NO CONNECTION
TO #1 PIN**

