



ELECTRONIC TUBE REFERENCE

6G8G

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Diode variable-mu pentode for detector and gain-controlled receiver amplification. The pentode supports automatic gain regulation while the associated diode supplies complementary detector or control-voltage rectification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Published ratings and characteristics promoted where clearly stated; identical repeated diode/triode sections compressed where applicable.

SECTION2 Pentode

PLATE RESISTANCE	800000 Ω
TRANSCONDUCTANCE	0.001 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V

Published ratings and characteristics promoted where clearly stated; identical repeated diode/triode sections compressed where applicable.

The BRIMAR 6G8G is a double-diode vari-mu pentode with a 6.3 V, 0.3 A heater and published pentode characteristics at 250 V anode voltage.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1940 RCA

Section 1 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode grid-to-plate capacitance	0.007 pF	With shield can

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Detector, AVC, RF/IF amplifier	Published function

1940 RCA

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1948 BRIMAR RADIO VALVE MANUAL

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	250 V	—
Anode Current	6.5 mA	—
Screen Voltage	100 V	—
Screen Current	1.4 mA	—
Control Grid Voltage	-3 V	—
Control Grid Voltage for Low Transconductance	-40 V	Transconductance=0.005mA/V

TUBE TINKER

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