



ELECTRONIC TUBE REFERENCE

6CG8

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Triode oscillator plus sharp-cutoff pentode mixer designed for television tuner frequency-converter service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6900 Ω
TRANSCONDUCTANCE	0.0058 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
Published source values promoted where applicable.	

SECTION2 Pentode

PLATE RESISTANCE	750000 Ω
TRANSCONDUCTANCE	0.0046 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	2 W

Published source values promoted where applicable.

The Westinghouse 6CG8 combines a triode oscillator with a sharp-cutoff pentode mixer for television tuner service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	450 mA	—
Plate Voltage	100 V	—
Cathode Bias Resistor	100 ohm	—
Amplification Factor	40 ratio	—
Plate Resistance	6900 ohm	—
Transconductance	5800 uS	—
Grid-Plate Capacitance	1.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Oscillator Frequency	250 MHz	Oscillator

1965 WESTINGHOUSE DATA BOOK

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	—
Screen Voltage	150 V	—
Cathode Bias Resistor	200 ohm	—
Plate Resistance	750000 ohm	—
Transconductance	4600 uS	—
Grid-Plate Capacitance	0.016 pF	Shielded
Input Capacitance	5 pF	Shielded

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output Capacitance	1.6 pF	Shielded

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker