



ELECTRONIC TUBE REFERENCE

6CT7

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Single detector diode combined with a remote-cutoff RF pentode for receiver radio-frequency amplification and detection.

GENERAL CHARACTERISTICS

BASE DESIGNATION	OCTAL	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1400000 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	10 mA
SECTION2 Diode	
MAXIMUM PLATE VOLTAGE	200 V
NOMINAL OUTPUT CURRENT	0.8 mA

Single-diode remote-cutoff RF pentode. The supplied Philips/JETEC/RTMA sheet was read for heater data, section ratings, characteristics, operating conditions, and capacitances, with repeated identical sections compressed only where the locked workflow allows.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Plate voltage	250 V	—
Screen voltage	85 V	—
Plate current	5 mA	—
Screen current	1.5 mA	—
Grid voltage	-2 V	—
Transconductance	2000 μ S	—
Plate resistance	1.4 Mohm	—
Screen-grid amplification factor	18	—

1999 PHILIPS 0-D

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum diode plate voltage	200 V	—
Maximum diode current	0.8 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode plate-cathode capacitance	3.8 pF	—

TUBE TINKER

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and their source documents.

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