



ELECTRONIC TUBE REFERENCE

EF1

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Versatile Philips pentode explicitly usable for RF/IF amplification, biased radio detection, and AF amplification. Its documented detector role keeps it within the radio detector family despite its broader amplifier capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	1700000 Ω
TRANSCONDUCTANCE	0.0032 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	6 mA

RF/IF pentode also usable as biased detector and AF amplifier. The supplied Philips source was read for heater data, ratings, characteristics, operating conditions, and capacitances; special secondary-emission quantities are retained as parameters where standard section fields do not apply.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	400 mA	—
Typical plate voltage	250 V	—
Typical grid 2 voltage	100 V	—
Typical plate current	3 mA	—
Transconductance	3200 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum no-current plate voltage	400 V	—
Maximum plate voltage	250 V	—
Maximum plate dissipation	1 W	—

TUBE TINKER

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and their source documents.

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