



ELECTRONIC TUBE REFERENCE

PC150

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Directly heated oxide-cathode transmitting pentode designed for oscillator, RF amplifier, and frequency-doubler service. Its construction supports both power generation and harmonic multiplication.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	3
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	35 W
MAXIMUM SCREEN DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	110 mA

Directly heated oxide-cathode transmitting pentode for oscillator, RF amplifier and frequency-doubler service. The supplied Philips source was read for heater/filament data, ratings, characteristics, RF/television operating conditions, and capacitances where published.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	1000 V	—
Maximum screen voltage	300 V	—
Maximum plate dissipation	35 W	—
Maximum screen dissipation	10 W	—
Maximum cathode current	110 mA	—
Operating plate voltage	1000 V	ClassC;Telegraphy
Operating screen voltage	300 V	ClassC;Telegraphy
Operating plate current	80 mA	ClassC;Telegraphy
RF output power	50 W	ClassC;Telegraphy
Efficiency	62.5 %	ClassC;Telegraphy

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1500 μ S	—
Screen-grid amplification factor	3	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	19 pF	—
Grid-cathode capacitance	14 pF	—
Plate-grid capacitance	0.04 pF	—

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

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