



ELECTRONIC TUBE REFERENCE

PC033A

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

PC03/3A directly heated transmitting pentode variant using a 2 V oxide filament. Designed for RF power amplification and related transmitter service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 240 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0014 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	25 mA

PC03/3A transmitting pentode variant with 2 V oxide filament. 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	300 V	—
Maximum screen voltage	300 V	—
Maximum plate dissipation	3 W	—
Maximum screen dissipation	1.5 W	—
Maximum cathode current	25 mA	—
Operating plate voltage	300 V	ClassC;Telegraphy;NoGridCurrent
Operating screen voltage	125 V	ClassC;Telegraphy;NoGridCurrent
Operating plate current	25 mA	ClassC;Telegraphy;NoGridCurrent
RF output power	3 W	ClassC;Telegraphy;NoGridCurrent
Efficiency	52.5 %	ClassC;Telegraphy;NoGridCurrent

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1400 μ S	—
Screen-grid amplification factor	3.3	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	11 pF	—
Grid-cathode capacitance	8.5 pF	—
Plate-grid capacitance	0.2 pF	—

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

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