

ELECTRONIC TUBE REFERENCE

PB2200

Power - Pentode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated thoriated-tungsten RF power pentode for HF amplification, telegraphy, telephony, and modulation. Philips industrial documentation identifies it as a versatile professional transmitting tube.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12 V / 3.35 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0033 S
AMPLIFICATION FACTOR	5.9
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	110 W
MAXIMUM SCREEN DISSIPATION	25 W
MAXIMUM GRID DISSIPATION	12 W
MAXIMUM CATHODE CURRENT	285 mA
Directly heated thoriated-tungsten RF power pentode for HF amplifier, telegraphy, telephony, and modulation service.	

PB2200 is a Pentode device in the supplied Philips industrial literature. Directly heated thoriated-tungsten

RF power pentode for HF amplifier, telegraphy, telephony, and modulation service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	14 pF	—
Grid-1 capacitance	13.7 pF	—
Anode-to-grid1 capacitance	0.15 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor grid2-grid1	5.9	—
Transconductance at 55mA	3300 uS	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	2000 V	ClassC; Telegraphy
Grid1 voltage	-150 V	ClassC; Telegraphy
Screen voltage	300 V	ClassC; Telegraphy
Plate current	190 mA	ClassC; Telegraphy
RF output power	270 W	ClassC; Telegraphy
Plate voltage	2000 V	ClassB; Telephony
Grid1 voltage	-65 V	ClassB; Telephony
Screen voltage	400 V	ClassB; Telephony
Plate current	77.5 mA	ClassB; Telephony
RF output power	45 W	ClassB; Telephony
Maximum grid1 dissipation	12 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode current	285 mA	—
Maximum peak cathode current	1400 mA	—



SOURCE DATA APPENDIX

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	2000 V	—
Maximum screen voltage	400 V	—
Maximum plate dissipation	110 W	—
Maximum screen dissipation	25 W	—
Maximum cathode current	285 mA	—
Maximum peak cathode current	1.4 A	—
Operating plate voltage	2000 V	ClassC;Telegraphy
Operating screen voltage	300 V	ClassC;Telegraphy
Operating plate current	190 mA	ClassC;Telegraphy
RF output power	270 W	ClassC;Telegraphy
Efficiency	71 %	ClassC;Telegraphy

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3300 μ S	—
Screen-grid amplification factor	5.9	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	14 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	13.7 pF	—
Plate-grid capacitance	0.15 pF	—

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