



ELECTRONIC TUBE REFERENCE

D1321BE

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Philips or Telefunken D-series cathode-ray instrument tube designed for oscillographic and measurement display, with manufacturer-defined electrostatic beam control, deflection, screen, and accelerating characteristics for type D1321BE.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray*No fixed ratings recorded.**Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.*

D1321BE is a Philips high-frequency high-writing-speed metal-backed oscilloscope CRT. The supplied datasheet provides electrostatic-deflection, focusing, acceleration, screen and operating characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V2

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating
Screen fluorescence	Blue	Screen
Screen phosphorescence	Blue	Screen
Screen persistence	Medium short	Screen
Horizontal deflection factor	27 to 33 V/cm	OscilloscopeCRT
Vertical deflection factor	5.7 to 7.1 V/cm	OscilloscopeCRT

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Post-accelerator voltage	10 kV	OscilloscopeCRT
Isolation-shield voltage	1670 V	OscilloscopeCRT
Deflection-plate shield voltage	1670 V	OscilloscopeCRT
Second-accelerator voltage	1670 V	OscilloscopeCRT
Focusing-electrode voltage	180 to 590 V	OscilloscopeCRT
First-accelerator voltage	1670 V	OscilloscopeCRT
Grid No.1 voltage	-50 to -80 V	OscilloscopeCRT
Maximum horizontal linearity deviation	1.5 %	OscilloscopeCRT
Maximum vertical linearity deviation	1 %	OscilloscopeCRT

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 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Horizontal deflection coefficient	19.8 V/cm	—
Vertical deflection coefficient	7.1 V/cm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final/accelerator voltage	10000 V	—
Focusing electrode voltage	180–590 V	—
First accelerator voltage	1670 V	—
Screen dissipation maximum	3 mW/cm2	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid	6.4 pF	—
Cathode	3.9 pF	—
except	3 pF	—
except	3 pF	—
except	2.8 pF	—
except	2.8 pF	—
X1	1.9 pF	—
¥¢	1.5 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