

ELECTRONIC TUBE REFERENCE

DB103

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Philips cathode-ray oscilloscope tube for oscillography, using electrostatic beam control. Manufacturer documentation provides screen, focusing and deflection, capacitance, sensitivity, rating, and operating data where published.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 560 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	1200 V
Electrostatic deflection, accelerator/focus/grid voltages, sensitivities and limiting values reviewed.	

DB103 is a Philips electrostatically deflected cathode-ray tube for oscillography. 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerating-grid voltage	1000 V	—
Focusing-grid voltage	200–340 V	—
Maximum accelerating-grid voltage	1200 V	—
Minimum accelerating-grid voltage	800 V	—
Maximum focusing-grid voltage	500 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity N2	0.55 mm/V	—



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

OTHER		

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerator voltage	1200 V	—

TUBE TINKER

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and their source documents.

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