

ELECTRONIC TUBE REFERENCE

DG162

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Philips/Mullard DG-series cathode-ray instrument tube intended for oscillographic and measurement display, with manufacturer-defined electrostatic focusing, deflection, screen, and accelerating characteristics for type DG162.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	2000 V
Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.	

The Philips DG162 is a high-vacuum 16 cm oscillography crt with green.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen diameter	167 mm	—
Greatest overall length	450 mm	—
Greatest length without pins	425 mm	—
Maximum second-anode voltage	2000 V	—
Maximum first-anode voltage	600 V	—
Maximum grid bias for ray suppression	-40 V	—
Second-anode voltage	2000 V	—
First-anode voltage	400 V	—
Second-anode voltage	1000 V	—
First-anode voltage	200 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity N1	0.27 mm/V	—
Deflection sensitivity N2	0.2 mm/V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance	12 pF	—
Deflection-plate capacitance D1-D1'	6 pF	—
Deflection-plate capacitance D2-D2'	7 pF	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4 V	—
Heater Current	1 A	—
Phosphor Variant	green text	Screen fluorescence and persistence

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacities Cg	7.3 pF	Capacities Cg 7.3 pF
Capacites CD	2.1 pF	Capacites CD1D1' 2.1 pF

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Spotsharpness at Vat	2000 V	Spotsharpness at Vat = 2000 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
Anode voltage	1000–2000 V	Published datasheet value
Auxiliary anode voltage	200–400 V	Published datasheet value
Grid bias	-35–0 V	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity first pair	0.27–0.54 mm/V	Published datasheet value
Deflection sensitivity second pair	0.2–0.4 mm/V	Published datasheet value
Grid-to-cathode capacitance	6 pF	Published datasheet value
First plate-pair capacitance	2.5 pF	Published datasheet value
Second plate-pair capacitance	3 pF	Published datasheet value
Maximum writing speed	2.5 km/s	Published datasheet value

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