ELECTRONIC TUBE REFERENCE

DG93

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Philips/Mullard DG-series cathode-ray instrument tube for oscillographic and measurement display, with manufacturer-defined electrostatic beam focusing, deflection, screen, and accelerating characteristics for type DG93.

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	1200 V

High-vacuum CRT with electrostatic focusing and double electrostatic deflection. Screen variant: green.

The Philips DG93 is a high-vacuum 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	**103 mm**	—
Greatest overall length	**350 mm**	—
Greatest length without pins	**320 mm**	—
Maximum second-anode voltage	**1200 V**	—
Maximum first-anode voltage	**500 V**	—
Maximum grid bias for ray suppression	**-40 V**	—
Second-anode voltage	**1000 V**	—
First-anode voltage	**400 V**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Deflection sensitivity N1	**0.4 mm/V**	—
Deflection sensitivity N2	**0.3 mm/V**	—

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid capacitance	**6 pF**	—
Deflection-plate capacitance D1-D1'	**4 pF**	—
Deflection-plate capacitance D2-D2'	**5.5 pF**	—

SOURCE OPERATING CONDITIONS

1957 Philips Receiving and Amplifying Tubes

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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 DATA APPENDIX

SOURCE OPERATING CONDITIONS

1963 Philips Electron Tubes Handbook V2

SOURCE PDF

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**
Capacitances Cg	**8 pF**	Capacitances Cg = 8 pF

SOURCE DATA APPENDIX

1999 Philips 0-D

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1999 PHILIPS 0-D

Section 1 · Cathode Ray

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Anode voltage	**1000 V**	—
Auxiliary anode voltage	**400 V**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
First deflection sensitivity	**0.4 mm/V**	—
Second deflection sensitivity	**0.31 mm/V**	—
Grid-cathode capacitance	**7.5 pF**	—

Tube Tinker

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

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