

ELECTRONIC TUBE REFERENCE

DG75

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 DG75.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 310 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	400 V
Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.	

The Mullard DG75 is a high-vacuum electrostatic oscilloscope tube with an approximately 2.5-inch screen and green medium persistence phosphor.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Colour / Persistence	Green, medium persistence	—
Focusing Method	Electrostatic	—
Deflecting Method	Double Electrostatic	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	800 V	—
Focusing Electrode Voltage Minimum	200 V	—
Focusing Electrode Voltage Maximum	300 V	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	400 V	—
Grid 2 Operating Voltage Minimum	200 V	—
Grid 2 Operating Voltage Maximum	300 V	—
Maximum Grid 2 Voltage	400 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Electrostatic	—
Deflection Method	Double electrostatic	—
Screen Variant	green, medium 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

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing	Electrostatic	OscilloscopeCRT
Deflection	Double electrostatic	OscilloscopeCRT
Screen fluorescence	Green	OscilloscopeCRT
Screen persistence	Medium	OscilloscopeCRT
Screen variant	DG7-5	OscilloscopeCRT

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	OscilloscopeCRT
Heater current	300 mA	OscilloscopeCRT
Accelerator voltage	800 V	OscilloscopeCRT
Focusing voltage minimum	200 V	OscilloscopeCRT
Focusing voltage maximum	300 V	OscilloscopeCRT
Grid No.1 extinction voltage maximum	50 V	OscilloscopeCRT
Accelerator voltage maximum	1000 V	OscilloscopeCRT

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity D1	0.25 mm/V	OscilloscopeCRT
Deflection sensitivity D2	0.16 mm/V	OscilloscopeCRT

TUBE TINKER

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

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