

ELECTRONIC TUBE REFERENCE

DG73101

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 DG73101.

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

SECTION1 Cathode Ray
No fixed ratings recorded. CRT-specific optical, focusing, deflection, accelerating-voltage, scan, and capacitance data are retained in TUBE_SECTION_PARAMETER because the locked promoted fields primarily target conventional electrode sections.

Low-voltage green-screen cathode-ray tube for oscilloscopes, with medium persistence and electrostatic focusing/deflection.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	OscilloscopeCRT
Heater current	300 mA	OscilloscopeCRT
Accelerator voltage	500 V	OscilloscopeCRT
Focusing voltage range	0 to 120 V	OscilloscopeCRT
Grid No.1 extinction voltage range	50 to 100 V	OscilloscopeCRT

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity D1 minimum	0.43 mm/V	OscilloscopeCRT
Deflection sensitivity D1 maximum	0.53 mm/V	OscilloscopeCRT
Deflection sensitivity D2 minimum	0.24 mm/V	OscilloscopeCRT
Deflection sensitivity D2 maximum	0.3 mm/V	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
Screen fluorescence	Green	Published datasheet value
Persistence	Medium	Published datasheet value
Deflection sensitivity first pair	0.43-0.53 mm/V	Published datasheet value
Deflection sensitivity second pair	0.24-0.30 mm/V	Published datasheet value
Grid No.1 capacitance	7.6 pF	Published datasheet value
Cathode capacitance	3.2 pF	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.2 and No.4 voltage	500 V	Published datasheet value
Grid No.3 voltage	0-120 V	Published datasheet value
Negative grid No.1 cut-off voltage	50-100 V	Published datasheet value
Maximum grid No.2 and No.4 voltage	-800 V	Published datasheet value
Minimum grid No.2 and No.4 voltage	400- V	Published datasheet value
Maximum grid No.3 voltage	-200 V	Published datasheet value
Maximum negative grid No.1 voltage	-160 V	Published datasheet value
Maximum cathode-heater voltage	-125 V	Published datasheet value
Grid No.2 and No.4 dissipation maximum	-0.5 W	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection plate circuit resistance maximum	—5 MΩ	Published datasheet value
Grid No.1 circuit resistance maximum	—0.5 MΩ	Published datasheet value

TUBE TINKER

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