

ELECTRONIC TUBE REFERENCE

DH791

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Philips DH-series cathode-ray instrument tube designed for oscillographic and measurement display, with manufacturer-defined high-performance focusing, deflection, screen, and accelerating characteristics for type DH791.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 550 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.

Direct-view high-sensitivity oscilloscope CRT with green-to-blue short-persistence screen.

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 to blue	OscilloscopeCRT
Screen persistence	Short	OscilloscopeCRT

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	OscilloscopeCRT
Heater current	550 mA	OscilloscopeCRT
Accelerator voltage	1000 V	OscilloscopeCRT
Focusing voltage minimum	210 V	OscilloscopeCRT
Focusing voltage maximum	320 V	OscilloscopeCRT
Grid No.1 voltage minimum	-65 V	OscilloscopeCRT
Grid No.1 voltage maximum	-28 V	OscilloscopeCRT

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D1 sensitivity	0.87 mm/V	OscilloscopeCRT
D2 sensitivity	0.5 mm/V	OscilloscopeCRT
Sensitivity limit D2 minimum	410 mm/V per kV	OscilloscopeCRT
Sensitivity limit D2 maximum	610 mm/V per kV	OscilloscopeCRT
Sensitivity limit D1 minimum	685 mm/V per kV	OscilloscopeCRT
Sensitivity limit D1 maximum	1050 mm/V per kV	OscilloscopeCRT

TUBE TINKER

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and their source documents.

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