ELECTRONIC TUBE REFERENCE

DH1379

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 DH1379.

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.

Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.

Flat-face post-deflection-acceleration high-sensitivity cathode-ray oscilloscope tube. The source provides CRT heater, focusing/deflection, capacitance, scan/sensitivity and operating data where published.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful screen diameter min	**108 mm**	Useful screen diameter min. 108 mm
Heater voltage Vf	**6.3 V**	Heater voltage Vf = 6.3 V
Heater current If	**300 mA**	Heater current If = 0.3 A
Cathode to all other electrodes Ck	**3.9 pF**	Cathode to all other electrodes Ck = 3.9 pF
The post-accelerator helix is connected between g	**7 A**	The post-accelerator helix is connected between g7 and g6.
LINE WIDTH measured on a circle of	**30 mm**	LINE WIDTH measured on a circle of 30 mm diameter
Post accelerator voltage VB	**10 kV**	Post accelerator voltage VB7 10 kV
Grid No	**4 V**	Grid No.4 voltage Vg4 1670 V
Grid No	**1670 V**	Grid No.4 voltage Vg4 1670 V
Grid No	**2 V**	Grid No.2 voltage VB2 = 1670 V
Grid No	**1670 V**	Grid No.2 voltage VB2 = 1670 V
Beam current IQ	**0.5 uA**	Beam current IQ = 0.5 µA
Line width l.w	**0.4 mm**	Line width l.w. = 0.4 mm
Post accelerator voltage	**10 kV**	Post accelerator voltage = 10 kV
Second accelerator voltage	**1670 V**	Second accelerator voltage = 1670 V 1)
Focusing electrode voltage Vg	**180–590 V**	Focusing electrode voltage Vg3 = 180 to 590 V
First accelerator voltage Vg	**1670 V**	First accelerator voltage Vg2 = 1670v
Grid No	**-50–-80 V**	Grid No.1 voltage Vg1 = -50 to -80 V 2)
Grid No	**1 V**	Grid No.1 voltage Vg1 = -50 to -80 V 2)

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No	**1 V**	Grid No.1 voltage
Focusing voltage V	**110–355 V**	Focusing voltage V63 = 110 to 355 V per kV of Vg4
Grid No	**30–48 V**	Grid No.1 voltage 2) -V81 = 30 to 48 V per kV of Vg2
Grid No	**1 V**	Grid No.1 voltage 2) -V81 = 30 to 48 V per kV of Vg2
Useful screen diameter	**108 mm**	Useful screen diameter
Post-deflection acceleration present	**1**	Source explicitly describes post-deflection acceleration

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The useful scan may vertically be shifted max	**3 mm**	The useful scan may vertically be shifted max. 3 mm with
Second accelerator voltage Vg	**2100 V**	Second accelerator voltage Vg4 = max. 2100 V
Focusing electrode voltage V	**1500 V**	Focusing electrode voltage V83 = max. 1500 V
cathode positive Vkf(k pos) = max	**200 V**	cathode positive Vkf(k pos) = max. 200 V
cathode negative Vkf(k neg) = max	**125 V**	cathode negative Vkf(k neg) = max. 125 V

Tube Tinker

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