

ELECTRONIC TUBE REFERENCE

DH711

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 DH711.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 95 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 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	68 mm	Useful screen diameter 68 mm
Heater voltage Vp	6.3 V	Heater voltage Vp = 6.3 V
Heater current If	95 mA	Heater current If = 95 mA
Grid No	5.7 pF	Grid No.1 to all other electrodes CB1 = 5.7 pF
Cathode to all other electrodes Ck	3 pF	Cathode to all other electrodes Ck = 3.0 pF
Post accelerator voltage VB	1200 V	Post accelerator voltage VB6 = 1200 V
Second accelerator voltage VB	300 V	Second accelerator voltage VB4 = 300V
First accelerator voltage V	1200 V	First accelerator voltage V82 = 1200 V
Beam current IL	10 A	Beam current IL = 10A
Line width l.w	0.65 mm	Line width l.w. = 0.65 mm
Post accelerator voltage Vg b	1200 V	Post accelerator voltage Vg b = 1200 V
Focusing voltage Vg	20–150 V	Focusing voltage Vg3 = 20 to 150 V
First accelerator voltage Vg	1200 V	First accelerator voltage Vg2 = 1200 V
Negative grid No	1 V	Negative grid No.1 volt-
of focused spot -Vg	30–80 V	of focused spot -Vg1 = 30 to 80 V
Grid No	1 V	Grid No.1 voltage
Useful screen diameter	68 mm	Useful screen diameter
Post-deflection acceleration present	1	Source explicitly describes post-deflection acceleration

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Post• accelerator = max	2500 V	Post• accelerator = max. 2500 V
Second accelerator = max	2100 V	Second accelerator = max. 2100 V
Focusing voltage = max	1000 V	Focusing voltage = max. 1000 V
First accelerator = max	1600 V	First accelerator = max. 1600 V
grid No	4 A	grid No.4 and any de- = max. 500 V
grid No	500 V	grid No.4 and any de- = max. 500 V
cathode positive V _{kf} (k pos.) = max	100 V	cathode positive V _{kf} (k pos.) = max. 100 V
cathode negative V _{kf} (k neg.) = max	15 V	cathode negative V _{kf} (k neg.) = max.. 15 V
Cathode current I _k = max	200 uA	Cathode current I _k = max. 200 μARMS)
Mrel =Re	7 A	Mrel =Re7a five deflection factor

TUBE TINKER

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and their source documents.

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