

ELECTRONIC TUBE REFERENCE

D10160GH

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Philips instrument cathode-ray tube for oscilloscope or precision display service, using electrostatic beam control and manufacturer-specified focusing, acceleration, capacitance, screen, and deflection characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	14
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Published electrical ratings and operating data captured in promoted fields where directly applicable and additional parameter rows.

Philips cathode-ray tube intended for oscilloscope or instrument-display service. The datasheet specifies screen, heating, electrostatic deflection, accelerator/focusing voltages, capacitances, operating characteristics, and limiting values as applicable.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display area	0	Published datasheet specification
Deflection coefficient, horizontal My	2 V/cm	Published datasheet specification
vertical My	3.7 V/cm	Published datasheet specification
Useful screen diameter min	5 mm	Published datasheet specification
horizontal min,	0 mm	Published datasheet specification
vertical min,	0 mm	Published datasheet specification
Heater voltage V _h	3 V	Published datasheet specification
Heater current I _h	0 mA	Published datasheet specification
Overall length max	60 mm	Published datasheet specification
Face diameter max	2 mm	Published datasheet specification
x] to all other elements except x	1	Published datasheet specification
Published specification	2	Published datasheet specification
Published specification	9	Published datasheet specification
X] to Xy Cx	2	Published datasheet specification
Published specification	1.1 pF	Published datasheet specification
Control grid to all other elements C _{gl}	5 pF	Published datasheet specification
Line width l.w	27 mm	Published datasheet specification
adjust V _{gl} for a beam current of approx	0	Published datasheet specification
V _{yl}	2	Published datasheet specification
Measure the current on xg and adjust V _g for I _{xa}	10 uA	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
raster display with a true	0 uA	Published datasheet specification
Accelerator voltage V_{gz}	5.4 ma	Published datasheet specification
Focusing electrode voltage V_g	140	Published datasheet specification
extinction of focused spot V_{gl} max	50 V	Published datasheet specification
Grid drive for	0	Published datasheet specification
vertical y max	4.5 V/cm	Published datasheet specification
Useful scan, horizontal min	0 mm	Published datasheet specification
vertical min	0 mm	Published datasheet specification
Published specification	350 V	Published datasheet specification
Focusing electrode voltage V_g	2200 V	Published datasheet specification
$I_{e, max}$	0 V	Published datasheet specification
Cathode to heater voltage $V_{e, max}$	2	Published datasheet specification
$-V_{kt}$ max	25 V	Published datasheet specification
Screen dissipation W_i max	2	Published datasheet specification
Published specification	75	Published datasheet specification
from the sensitivity at a deflection of	5	Published datasheet specification
}} A graticule, consisting of concentric rectangles of	0 mm	Published datasheet specification

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
operating conditions, adjusted for optimum spot size at a beam current I_b	10 uA	Published datasheet specification

TUBE TINKER

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