



ELECTRONIC TUBE REFERENCE

D12160GY119

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

SECTION RATINGS

SECTION 1 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
o for portable oscilloscopes with up to	6 MHz	Published datasheet specification
Minimum useful scan area	0 mm	Published datasheet specification
horizontal My	9 V	Published datasheet specification
vertical My	1 V	Published datasheet specification
Useful screen area >	2 mm	Published datasheet specification
Useful scan area	80 mm	Published datasheet specification
W fiuly	987	Published datasheet specification
Overall length (socket included) <	92 mm	Published datasheet specification
Published specification	2	Published datasheet specification
Published specification	1	Published datasheet specification
yi{toy?o Cy	2	Published datasheet specification
pass through an opening of	1 mm	Published datasheet specification
Published specification	350 mm	Published datasheet specification
Published specification	0.8	Published datasheet specification
Published specification	64	Published datasheet specification
Line thickness	0.2 mm	Published datasheet specification
dot diameter	0.4 mm	Published datasheet specification
Focusing voltage Vga	0	Published datasheet specification
Published specification	9 V	Published datasheet specification
Published specification	13.8 V/cm	Published datasheet specification
useful scan (	0 mm	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid drive voltage for	0 uA	Published datasheet specification
Line width lLw	25 mm	Published datasheet specification
Focusing electrode voltage Vg	2200 A	Published datasheet specification
Heater voltage Vç min	0	Published datasheet specification
application of an external passe-partout with open area of max	2 mm	Published datasheet specification
A difference between mean x- and y-potentials up to	5 V	Published datasheet specification
of £	0 V	Published datasheet specification
Optimum spot is obtained with Vg	4	Published datasheet specification
ance of +	2	Published datasheet specification
An actual focus range of	0 V	Published datasheet specification
maximum acceptable line width. The corresponding cathode current or lgz g	500 uA	Published datasheet specification
The sensitivity at a deflection of less than	5	Published datasheet specification
at a deflection of	5	Published datasheet specification
A graticule consisting of concentric rectangles of	0 mm	Published datasheet specification
Published specification	0	Published datasheet specification
Approx	19	Published datasheet specification
conditions, adjusted for optimum spot size at a beam current g	10 uA	Published datasheet specification

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker