

ELECTRONIC TUBE REFERENCE

D12390GH119

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	6.3 V / 100 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. 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
far portable oscilloscopes with up to	0 MHz	Published datasheet specification
Final accelerator voltage Varn	0 kV	Published datasheet specification
Minimum ugeful scan area	0	Published datasheet specification
Uzeful screen area	82 mm	Published datasheet specification
Useful scan area	80 mm	Published datasheet specification
Heater voltage V;	3 V	Published datasheet specification
Heater current I	1 A	Published datasheet specification
Overall Ieng'.t_h (socket included) max	66 mm	Published datasheet specification
X, to all other elements except x; CH" fx	3.7 pF	Published datasheet specification
X, to all other elements except X, Cx	1	Published datasheet specification
¥, to all other elements except Y, C'p'-'i.' A	3 pF	Published datasheet specification
Published specification	10	Published datasheet specification
Final accelerator eléqtrude to all other elements Cor	40 pF	Published datasheet specification
Published specification	2	Published datasheet specification
pass through an opening of	1 mm	Published datasheet specification
Published specification	350 mm	Published datasheet specification
(B} The centre of the final accelerator contact is situated within a square of	0 mm	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published specification	0 s	Published datasheet specification
Reference points A1, A2 and A3 are for aligning the graticule with the facuplate ([al-a2	25	Published datasheet specification
mm). Lme thickness	0.16 mm	Published datasheet specification
First accelerétor and astigmatism control voltage - V	4	Published datasheet specification
Cut-off voltage for viginal extinction of focfised spot - V g	451090 V	Published datasheet specification
Vertical deflection coefficient N " 7.5 Wcm. +	5	Published datasheet specification
Shi'gld voltage * . - - ' Vs F max	2 kV	Published datasheet specification
Focusing electrode voltage ' Vs _ max	2 kV	Published datasheet specification
positive : N Vi max	25 V	Published datasheet specification
negative	125 V	Published datasheet specification
Heater, \oltage C : A" P - max,	6 V	Published datasheet specification
graticule, application of ap external passe-partout with open area of max	2 mm	Published datasheet specification
" For some applications a mean x-potential up to	0 V	Published datasheet specification
is inevitable. In this case V,s must be made equal to mean x-potential, and a range of 0 to	5	Published datasheet specification
The semsltn:y at a deflectmn of less than	5	Published datasheet specification
sensitivity at a deflection of	5	Published datasheet specification
A gratitule consisting of concentric rectangles of	0	Published datasheet specification
resistance of	60	Published datasheet specification
(£ 5"} and earth magnetic field with reasonable shielding (	2	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
July 1994	9	Published datasheet specification
ZEEFDrukken: Afmeting	4	Published datasheet specification
LISMNDIRTE	15	Published datasheet specification

Characteristic		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
at V	1000 V	Published datasheet specification