



ELECTRONIC TUBE REFERENCE

D10363GY125

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
for small oscilloscopes with up to	0 MHz	Published datasheet specification
Accelerator voltage Vg	4	Published datasheet specification
Minimum useful scan area	0 mm	Published datasheet specification
horizontal M,	7 V	Published datasheet specification
vertical My	5 V	Published datasheet specification
Useful screen area »	0 mm	Published datasheet specification
Useful scan area »	0 mm	Published datasheet specification
Heater voltage V _h	3 V	Published datasheet specification
Heater current i _h	0 mA	Published datasheet specification
Heating time to attain	0	Published datasheet specification
Overall length (including socket) ' ' ' «	66 mm	Published datasheet specification
Faceplate dimension& ' \	2	Published datasheet specification
Mu metal shield S _ "type	5463	Published datasheet specification
Published specification	1	Published datasheet specification
Published specification	3.4 pF	Published datasheet specification
Published specification	50	Published datasheet specification
pass through an opening of	5 mm	Published datasheet specification
Published specification	350 mm	Published datasheet specification
w wasn nnnw ognn vobtTranafanny pune wrruan (	3	Published datasheet specification
} Q //:a -IJI- i-l	4	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The reference points A1, A2 and A3 are for aligning the graticule with the faceplate (a1 - a2	0.25	Published datasheet specification
Published specification	0.15 mm	Published datasheet specification
Published specification	0.3 mm	Published datasheet specification
Mean deflection plate potential	2	Published datasheet specification
Published specification	4	Published datasheet specification
Focus voltage o VgS	0	Published datasheet specification
Gut-off voltage for visual extinction of focused spot - V a	221065 V	Published datasheet specification
in horizontal direction . <	9	Published datasheet specification
x-axis, outer graticule line ,	30	Published datasheet specification
Line width Lw. approx	25 mm	Published datasheet specification
Accelerator voltage ' ' Vgég	2.2 kV	Published datasheet specification
Shield voltage ' : VgE(fl) Cmax,	2 kV	Published datasheet specification
Focus electrode voltage ' ' Vg	2 kV	Published datasheet specification
Control grid voltage ' ' 'Vg	200 V	Published datasheet specification
positive Vig max	25 V	Published datasheet specification
negative ' - Vg max	25 V	Published datasheet specification
Heater voltage L _ Vi max	6 V	Published datasheet specification
graticule, application of an external passe-partout with an open area of max	0 mm	Published datasheet specification
A difference between mean x- and y-potentials up to	5 V	Published datasheet specification
range of f	0 V	Published datasheet specification
Optimum spot is obtained with V!g	2	Published datasheet specification
of f	5	Published datasheet specification
An actual focus range of	0 V	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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	8 mm	Published datasheet specification
Published specification	0	Published datasheet specification
conditions, adjusted for optimum spot size at beam current I,	10	Published datasheet specification