



ELECTRONIC TUBE REFERENCE

D10181GY

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
Minimum useful scan area	0 mm	Published datasheet specification
horizontal ' M,	6 V	Published datasheet specification
vertical My	3 V	Published datasheet specification
oo Useful screen area	70 mm	Published datasheet specification
Useful scan area	70 mm	Published datasheet specification
in vertical direction - f	2	Published datasheet specification
Overall length (including socket) . <	40 mm	Published datasheet specification
if use is made of thizs dynamic correction, a negative voltage proportional to, and approx	0	Published datasheet specification
Published specification	10	Published datasheet specification
Published specification	1	Published datasheet specification
Xp o all other elements except X, Cx	1	Published datasheet specification
Y, to all other elements except y, ' Cyg(Yfl	5 pF	Published datasheet specification
Xy to X	2.2 pF	Published datasheet specification
y,toys Cy	2	Published datasheet specification
Control grid to all other elements ' Gg	6 pF	Published datasheet specification
Cathode to all other elements Cy	7 pF	Published datasheet specification
Dynamic correction electrode to all other elements : Cge	1 pF	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
resistance of	65	Published datasheet specification
maximum required voltage is approx	1 V	Published datasheet specification
pass through an opening of	5 mm	Published datasheet specification
Published specification	350 mm	Published datasheet specification
Accelerator voltage	1	Published datasheet specification
Focus electrode voltage g	220	Published datasheet specification
horizontal	70 mm	Published datasheet specification
vertical	56	Published datasheet specification
horizontal - '	36	Published datasheet specification
veHical 23	5	Published datasheet specification
Line width at	0 uA	Published datasheet specification
horizontal	4 mm	Published datasheet specification
Foclsing electrade voltage Vga ' 'max	2 KV	Published datasheet specification
Voltage between accelerator electrode and grid	500 V	Published datasheet specification
and any deflection plate Vgzfx/y max. +	0 V	Published datasheet specification
Control grid voltage ' - \.afg	200 V	Published datasheet specification
negative	125 V	Published datasheet specification
Girid drive, averaged over	20 V	Published datasheet specification
Published specification	2 KV	Published datasheet specification
N?{aasurethe current on X, and adjust Vg.[for ,	10	Published datasheet specification
Published specification	75	Published datasheet specification
at a deflection of	5	Published datasheet specification
Published specification	70 mm	Published datasheet specification

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
*The tube has a trace rotation coil, fixad onto the lower cone part. The coil has	0	Published datasheet specification