ELECTRONIC TUBE REFERENCE

D18180GY127

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

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

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.

Primary physical section.

Instrument cathode-ray tube with electrostatic beam control/deflection data, screen characteristics, heater ratings, and operating/limiting information documented in the supplied datasheet.

SOURCE OPERATING CONDITIONS

1999 Philips 0-D

SOURCE PDF

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**
Heater voltage	**6.3 V**	Nominal
Heater current	**100 mA**	Nominal

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
for oscilloscopes and general display up to	**25 MHz**	Published datasheet value
Accelerator voltage Vg2,g4	**95 V**	Published datasheet value
Minimum useful scan area	**120 mm**	Published datasheet value
horizontal My	**21 V/em**	Published datasheet value
vertical My	**15 V/em**	Published datasheet value
Useful screen area	**2 mm**	Published datasheet value
Useful scan area	**2120 mm**	Published datasheet value
Heater voltage V¢	**63 V**	Published datasheet value
Heater current If	**100 mA**	Published datasheet value
Heating time to attain	**10 a**	Published datasheet value
current at equilibrium conditions approx	**7 s**	Published datasheet value
Overall length (socket included) <	**324 mm**	Published datasheet value
Faceplate dimensions	**142 mm**	Published datasheet value
Base	**12 a**	Published datasheet value
The correction-circuit impedance must be <	**100 S**	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
If no correction is required, grid	**6 s**	Published datasheet value
x1 to all other elements except x2 Cx1(x2	**45 pF**	Published datasheet value
x2 to alt other elements except x4 Cx2(x1	**45 pF**	Published datasheet value
y1 to all other elements except yo Cyily2	**3.5 pF**	Published datasheet value
y2 to all other elements except yq Cy2(y1	**35 pF**	Published datasheet value
X1 t0 X9 Cx1x2	**2 pF**	Published datasheet value
y1toyp Cy1y2	**1 pF**	Published datasheet value
Control grid to all other elements Cg1	**5 pF**	Published datasheet value
Cathode to all other elements Ck	**2.7 pF**	Published datasheet value
Grid	**6 a**	Published datasheet value
— @	**87 ma**	Published datasheet value
pass through an opening of	**146 mm**	Published datasheet value
mean x- plate	**1 v**	Published datasheet value

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