ELECTRONIC TUBE REFERENCE

D7190GH

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Seven-centimeter flat-faced monoaccelerator Philips instrument CRT for oscilloscopes and monitoring equipment, using electrostatic deflection. The GH screen provides green fluorescence with medium-short persistence.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	14
NOMINAL HEATER	6.3 V / 300 mA	**PARALLEL HEATER**	– / –
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Cathode Ray

MAXIMUM PLATE VOLTAGE	2200 V
MAXIMUM HEATER-CATHODE VOLTAGE	125 V

Published ratings and characteristics promoted where a locked-schema field is semantically applicable; additional values retained as parameters.

Philips D7190GH is a 7 cm flat-faced monoaccelerator instrument cathode-ray tube for oscilloscopes and monitoring equipment. It uses a 6.3 V heater and electrostatic deflection; the GH screen is green with medium short persistence.

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**
Accelerator voltage typical	**1000 V**	Published datasheet value
Accelerator voltage maximum	**——2200 V**	Published datasheet value
Accelerator voltage minimum	**900—— V**	Published datasheet value
Focusing electrode voltage typical	**100–180 V**	Published datasheet value
Focusing electrode voltage maximum	**——2200 V**	Published datasheet value
Deflection linearity deviation maximum	**——1 %**	Published datasheet value
Control grid circuit resistance maximum	**——1 MΩ**	Published datasheet value
Control grid drive average maximum	**——20 V**	Published datasheet value
Screen dissipation maximum	**——3 mW/cm²**	Published datasheet value

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Horizontal deflection coefficient	**29 V/cm**	Published datasheet value
Horizontal deflection coefficient maximum	**——31 V/cm**	Published datasheet value
Vertical deflection coefficient	**11.5 V/cm**	Published datasheet value
Vertical deflection coefficient maximum	**——12.6 V/cm**	Published datasheet value
Useful scan horizontal minimum	**60—— mm**	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful scan vertical minimum	**50–– mm**	Published datasheet value
Line width	**0.28 mm**	Published datasheet value
X1 to all except X2 capacitance	**4 pF**	Published datasheet value
X2 to all except X1 capacitance	**4 pF**	Published datasheet value
Y1 to all except Y2 capacitance	**3.5 pF**	Published datasheet value
Y2 to all except Y1 capacitance	**3 pF**	Published datasheet value
X1-X2 capacitance	**1.6 pF**	Published datasheet value
Y1-Y2 capacitance	**1.1 pF**	Published datasheet value
Control grid capacitance	**5.5 pF**	Published datasheet value
Cathode capacitance	**4 pF**	Published datasheet value
Screen color	**green**	Published datasheet value
Screen persistence	**medium short**	Published datasheet value

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