

ELECTRONIC TUBE REFERENCE

D7190GM

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 GM screen provides yellowish-green fluorescence with long persistence.

GENERAL CHARACTERISTICS

BASE DESIGNATION	14-pin all glass	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 D7190GM 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 GM screen is yellowish green with long persistence.

SOURCE OPERATING CONDITIONS

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
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/cm ²	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	yellowish green	Published datasheet value
Screen persistence	long	Published datasheet value