



ELECTRONIC TUBE REFERENCE

D1012GM

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Philips flat-face oscilloscope CRT with helical post-deflection acceleration. Electrostatic focusing and deflection combine with added final acceleration for a bright, accurately controlled waveform trace.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	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.**Electrostatic deflection, accelerator/focus/grid voltages, sensitivities and limiting values reviewed.*

D1012GM is a Philips flat-face oscilloscope CRT with helical post-deflection acceleration. The supplied datasheet provides electrostatic-deflection, focusing, acceleration, screen and operating characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V2

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating
Screen fluorescence	Purplish blue	Screen
Screen phosphorescence	Yellowish green	Screen
Screen persistence	Long	Screen
Useful screen diameter	90 mm	DisplayGeometry
Useful vertical scan	60 mm	DisplayGeometry
Horizontal deflection factor	31 V/cm	Maximum
Vertical deflection factor	11.2 V/cm	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Post-accelerator voltage	4000 V	OscilloscopeCRT
Isolation-shield voltage	1000 ± 100 V	OscilloscopeCRT
Second-accelerator voltage	1000 ± 50 V	OscilloscopeCRT
Focusing-electrode voltage	20 to 200 V	OscilloscopeCRT
First-accelerator voltage	1000 V	OscilloscopeCRT
Grid No.1 voltage	-25 to -67 V	OscilloscopeCRT
Maximum deflection-linearity deviation	2 %	OscilloscopeCRT
Maximum pattern distortion	2 %	OscilloscopeCRT

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker