

ELECTRONIC TUBE REFERENCE

D1012BB

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Flat-face oscilloscope CRT with blue screen, double electrostatic deflection, and post-deflection acceleration. Its electrostatic beam system provides precise waveform positioning with increased final trace brightness.

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

SECTION1 Cathode Ray

No fixed ratings recorded.

CRT-specific electrical, optical, deflection, focusing, capacitance, and mechanical data are retained in TUBE_SECTION_PARAMETER because the locked promoted fields primarily target conventional electrode sections.

Flat-face post-deflection-accelerator oscilloscope CRT with blue screen and double electrostatic deflection.

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

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen color	Blue	OscilloscopeCRT
Screen persistence	Medium short	OscilloscopeCRT
Focusing	Electrostatic	OscilloscopeCRT
Deflection	Double electrostatic	OscilloscopeCRT

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful screen diameter	90 mm	OscilloscopeCRT
Useful vertical scan	60 mm	OscilloscopeCRT
Post accelerator voltage	4000 V	OscilloscopeCRT
Isolation shield voltage	1000 V	OscilloscopeCRT
Second accelerator voltage	1000 V	OscilloscopeCRT
Focusing electrode voltage minimum	20 V	OscilloscopeCRT
Focusing electrode voltage maximum	200 V	OscilloscopeCRT
First accelerator voltage	1000 V	OscilloscopeCRT
Grid No.1 voltage minimum	-67 V	OscilloscopeCRT
Grid No.1 voltage maximum	-25 V	OscilloscopeCRT
Post accelerator voltage maximum	5000 V	OscilloscopeCRT
Grid No.1 negative voltage maximum	200 V	OscilloscopeCRT

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Horizontal deflection factor maximum	31 V/cm	OscilloscopeCRT
Vertical deflection factor maximum	11.2 V/cm	OscilloscopeCRT
Line width	0.35 mm	BeamCurrent10uA
Deflection linearity deviation maximum	2 %	OscilloscopeCRT
Pattern distortion maximum	2 %	OscilloscopeCRT

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 capacitance	4 pF	Section1
Cathode capacitance	3 pF	Section1
X plate capacitance	4 pF	Section1
Y plate capacitance	3 pF	Section1

TUBE TINKER

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