



ELECTRONIC TUBE REFERENCE

DB161

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Philips cathode-ray oscilloscope tube for oscillography, using electrostatic beam control. Manufacturer documentation provides screen, focusing and deflection, capacitance, sensitivity, rating, and operating data where published.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	2000 V
<i>Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.</i>	

High-vacuum oscillography cathode-ray tube with symmetrical double electrostatic deflection.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4 V	—
Heater Current	1 A	—
Phosphor Variant	blue persistent text	Screen fluorescence and persistence



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacities Cg	9.5 pF	Capacities Cg 9.5 pF
Capacites CD	1.2 pF	Capacites CD1D1' 1.2 pF



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
Anode voltage	1000–2000 V	Published datasheet value
Auxiliary anode voltage	175–500 V	Published datasheet value
Control-grid voltage	-40–0 V	Published datasheet value
Maximum anode voltage	—2000 V	Published datasheet value
Maximum auxiliary anode voltage	—600 V	Published datasheet value
Maximum D1D1 deflection voltage	—570 V	Published datasheet value
Maximum D2D2 deflection voltage	—850 V	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity first pair	0.25–0.5 mm/V	Published datasheet value
Deflection sensitivity second pair	0.17–0.35 mm/V	Published datasheet value
Grid capacitance	9.5 pF	Published datasheet value
D1D1 capacitance	1.2 pF	Published datasheet value
D2D2 capacitance	2 pF	Published datasheet value