



ELECTRONIC TUBE REFERENCE

DB71

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

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	800 V
<i>Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.</i>	

High-vacuum oscillography cathode-ray tube with 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4 V	—
Heater Current	1 A	—
DeflectionMethod	Electrostatic	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Second-anode voltage	800 V	—
First-anode voltage	150–350 V	—
Maximum second-anode voltage	800 V	—
Maximum first-anode voltage	350 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity N1	0.22 mm/V	—
Deflection sensitivity N2	0.14 mm/V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Chauffage: indirect par C.A. ou C.C. Vf	4 V	Published datasheet condition
Published value	2 a	Published datasheet condition
Kepazititen ®p4	65 PF	Published datasheet condition
cD	1 v	Published datasheet condition
cD1v	6.5 pF	Published datasheet condition
CDZ'	6.4 pF	Published datasheet condition
Cpip1s	7 pF	Published datasheet condition
Cpapa	0.85 pF	Published datasheet condition
®Dip1r - pepar	3.7 PF	Published datasheet condition
Va2	800 V	Published datasheet condition
Vai = 150	350 V	Published datasheet condition
Vg = 0	30 V	Published datasheet condition
N1	0.22 mm	Published datasheet condition
) Measured on a circle of	50 mm	Published datasheet condition
Mesuré & un cercle de	50 mm	Published datasheet condition
Gemessen an einem Kreis von	50 mm	Published datasheet condition
lo2	800 V	Published datasheet condition
Published value	3 A	Published datasheet condition

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ot	1 ma	Published datasheet condition
Va2 = max. 800 V vD1D1'p	450 V	Published datasheet condition
Va1	350 V	Published datasheet condition
Va1 = max. 350 V VD2D2'p	750 V	Published datasheet condition
Vg =max. 0V W,	3 mW	Published datasheet condition
--Vg	200 V	Published datasheet condition

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