

ELECTRONIC TUBE REFERENCE

DB41

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	6.3 V / 310 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	1000 V
Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.	

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	400 V	—
Grid 2 Operating Voltage Minimum	200 V	—
Grid 2 Operating Voltage Maximum	300 V	—
Maximum Grid 2 Voltage	400 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Electrostatic	—
Deflection Method	Double electrostatic	—
Screen Variant	blue, short 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerating-grid voltage	800 V	—
Focusing-grid voltage	200–300 V	—
Maximum accelerating-grid voltage	1000 V	—
Maximum focusing-grid voltage	400 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection sensitivity N1	0.25 mm/V	—
Deflection sensitivity N2	0.16 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
DG 4	-1 v	Published datasheet condition
Heating indirect by A.C. or D.C. VE	6.3 V	Published datasheet condition
I1 est recommandé de mettre g	3 a	Published datasheet condition
Heating ¢ indirect by A.C. or D.C, Ve	6.3 V	Published datasheet condition
Cg1	10 pF	Published datasheet condition
Cg1 = 10 pF CDZ'	4.5 pF	Published datasheet condition
Cp1	5.3 pF	Published datasheet condition
Cp1 = 5,3 pF Cpip1	0.6 pF	Published datasheet condition

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cpt'	5.3 pF	Published datasheet condition
Cpt' = 5,3 pF Cpar	0.8 pF	Published datasheet condition
Cpz2	4.5 pF	Published datasheet condition
Cpz2 = 4,5pF CpiD1'-D2D2'	0.1 pF	Published datasheet condition
Epaisseur de la ligne (v83 = goo VA	0.7 mm	Published datasheet condition
Vg3	800 V	Published datasheet condition
Vg? 200	-300 V	Published datasheet condition
_Vg1 0	-50 V	Published datasheet condition
N4	0.25 mm	Published datasheet condition
1) Measured on a circle of	30 mm	Published datasheet condition
Mesuré & un cercle de	30 mm	Published datasheet condition
Gemessen an einem Kreis von	30 mm	Published datasheet condition
Cg1	7 pF	Published datasheet condition
Cg1 = 7,0 pF Cp2s	2.8 pF	Published datasheet condition
Cpq	3 pF	Published datasheet condition
Cpq = 3,0 pF Cpipy?	0.6 pF	Published datasheet condition
Cp4'	3.3 PF	Published datasheet condition
Cp4' = 3,3 PF Cp2p2!	0.8 pF	Published datasheet condition
CD2 = 2'	8 pF	Published datasheet condition
Epaisseur de la ligne (Vg3 = goo vAg	0.7 mm	Published datasheet condition
Vg2 200--	300 V	Published datasheet condition
Vg1 0	-50 v	Published datasheet condition
Published value	0.25 mm	Published datasheet condition
N2	0.16 mm	Published datasheet condition
Gemesgen an einem Kreis von	30 mm	Published datasheet condition
Vog	600 V	Published datasheet condition
Published value	7.1953 A	Published datasheet condition
Published value	5 A	Published datasheet condition

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vg3	1000 V	Published datasheet condition
Vg3 = max. 1000 V VD1D1'p	450 V	Published datasheet condition
Vg3 = min. 800 V Vp2p2tp	750 V	Published datasheet condition
Vg2	400 V	Published datasheet condition
Vg2 = max. 400 V We'	3 mW	Published datasheet condition
Vg1 = max. 0V Rp = max,	5 MΩ	Published datasheet condition
Vg1	100 V	Published datasheet condition
Vg1 = MaX. 100 Vv Rg1	0.5 MΩ	Published datasheet condition
Vg3 = max. 1000 V VD1D1'p maxXe	450 v	Published datasheet condition
Vg3 =min. 800V VD2D2'p maxe	750 V	Published datasheet condition
Vg2 = max. 400 V We	3 mW	Published datasheet condition
~Vg1	100 V	Published datasheet condition
~Vg1 = max. 100V Rg	1 ma	Published datasheet condition

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