ELECTRONIC TUBE REFERENCE

DB74

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Philips DB-series electrostatic cathode-ray instrument tube for oscillographic and measurement display, with manufacturer-defined screen persistence, focusing, deflection, and accelerating characteristics for type DB74.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	6.3 V / 400 mA	**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

Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.

Oscillography cathode-ray tube with electrostatic focusing and double electrostatic deflection; blue, persistent.

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	**800 V**	—
Anode 2 Voltage	**800 V**	—
Anode 1 Voltage Minimum	**200 V**	—
Anode 1 Voltage Maximum	**300 V**	—

CHARACTERISTIC

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

SOURCE DATA APPENDIX

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**
Capacitances Cg	**9 pF**	Capacitances Cg 9.0 pF

TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1999 Philips 0-D

SOURCE PDF

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**
Chauffages; indirect par C.A. ou C.C. Vf	**6.3 V**	Published datasheet condition
Heizung: indirekt durch Wechsel- If	**400 mA**	Published datasheet condition
D2' est & connecter	**3 a**	Published datasheet condition
Capacitances Cg	**9 pF**	Published datasheet condition
Kapazitdten o	**4.4 PF**	Published datasheet condition
cD2	**5 pF**	Published datasheet condition
cD1D1!	**0.5 pF**	Published datasheet condition
cD2Dp2!	**0.8 pF**	Published datasheet condition
CD1D1' - D2Dp2'	**0.1 pF**	Published datasheet condition
Epaisseur de la ligne Eg%Q - gog X%	**0.7 mm**	Published datasheet condition
Va2	**800 v**	Published datasheet condition
Va1l = 200	**300 V**	Published datasheet condition
Vg 0	**50 V**	Published datasheet condition
N1	**0.26 mm**	Published datasheet condition
N2	**0.16 mm**	Published datasheet condition
Grenzdaten Vaz = Dax	**1000 V**	Published datasheet condition

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
1) Measured on a circle of	**50 mm**	Published datasheet condition
Mesuré 3 un cercle de	**50 mm**	Published datasheet condition
Gemessen an einem Kreis von	**50 mm**	Published datasheet condition
Published value	**-40 V**	Published datasheet condition
10	**10.1949 A**	Published datasheet condition
Published value	**3 A**	Published datasheet condition

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value	**800 v**	Published datasheet condition
Vai = maxX	**400 v**	Published datasheet condition
Vg = max. o	**0 v**	Published datasheet condition
Vg	**100 v**	Published datasheet condition
VYD1D1?	**450 v**	Published datasheet condition
VD2D2*	**750 v**	Published datasheet condition

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