

ELECTRONIC TUBE REFERENCE

DR75

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

High-vacuum electrostatic oscilloscope CRT with an approximately 2.5-inch screen and long-persistence phosphor, designed for compact waveform measurement and retained trace display.

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

The Mullard DR75 is a high-vacuum electrostatic oscilloscope tube with an approximately 2.5-inch screen and long persistence phosphor.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Colour / Persistence	Long persistence	—
Focusing Method	Electrostatic	—
Deflecting Method	Double Electrostatic	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	800 V	—
Focusing Electrode Voltage Minimum	200 V	—
Focusing Electrode Voltage Maximum	300 V	—

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	greenish-yellow, long 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 capacitance	7 pF	OscilloscopeCRT
D1 plate capacitance	3 pF	OscilloscopeCRT
D1 prime plate capacitance	3.3 pF	OscilloscopeCRT

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D2 plate capacitance	2.8 pF	OscilloscopeCRT



SOURCE OPERATING CONDITIONS

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
Heating: indirect by A.C. or D.C. Ve	6.3 V	Published datasheet condition
Heizung: indirekt durch Wechsel-~ If	400 mA	Published datasheet condition
DG 7	-5 v	Published datasheet condition
Heizung : indirekt 'durch Wechsel- Ifr	310 mA	Published datasheet condition
Published value	3 Ω	Published datasheet condition
Heating : indirect by A.C. or D.C. Ve	6.3 V	Published datasheet condition
Heizung : indirekt durch Wechsel- If	310 mA	Published datasheet condition
Chauffage: indirect par C.A. ou C.C. Ve	6.3 V	Published datasheet condition
Il est recommandé de mettre g	3 a	Published datasheet condition
Capacitances Cg	9 pF	Published datasheet condition
Kapazitdten €1	4.8 pF	Published datasheet condition
Cpi	4.8 pF	Published datasheet condition
Cp2	5 pF	Published datasheet condition
Cp21	5.4 pF	Published datasheet condition
CD1D1*	0.6 pF	Published datasheet condition
Cp2D2*	0.8 pF	Published datasheet condition

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cpip1'-D2p2'	0.1 pF	Published datasheet condition
Dpaisseur de la ligne €¥a' - gog ZAg	0.7 mm	Published datasheet condition
Va2	800 A	Published datasheet condition
Va1 = 200	-300 V	Published datasheet condition
Vg = 0	50 V	Published datasheet condition
Ia2 = 0	-100 MA	Published datasheet condition
Published value	0.26 w	Published datasheet condition
N2	0.16 mm	Published datasheet condition
Va2 = nin	800 V	Published datasheet condition
vp1D1 p= mBX	450 V	Published datasheet condition
Vp2p2 'p = BOX	750 v	Published datasheet condition
1) Measured on a circle of	50 mm	Published datasheet condition
Mesuré & un cercle de	50 mm	Published datasheet condition
Gemessen an einem Xreis von	50 mm	Published datasheet condition
Cgt	10 pF	Published datasheet condition
Cgt = 10 pF Cp2»	4.5 pF	Published datasheet condition
Cpy	5.3 pF	Published datasheet condition
Cpy = 5,3 pF CDID1!	0.6 pF	Published datasheet condition
Cpyv	5.3 pF	Published datasheet condition
Cpyv = 5,3 pF CD2D2'	0.8 pF	Published datasheet condition
Cpo	4.5 pF	Published datasheet condition
Cpo = 4,5 pF Cp1Dy'-D2D2'	0.1 pF	Published datasheet condition
Epaisseur de la ligne (Vg3	800 V	Published datasheet condition
Vg3	800 V	Published datasheet condition
Vg2 = 200	-300 V	Published datasheet condition
Vg1 = 0	-50 V	Published datasheet condition
N1	0.25 mm	Published datasheet condition
Gemessen an einem Kreis von	50 mm	Published datasheet condition
Cg1	10 pF	Published datasheet condition
Cg1 = 10 pF Cpar	4.5 pF	Published datasheet condition
Cpy = 5,3 pF Cp1D1	0.6 pF	Published datasheet condition

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cpyr	5.3 pF	Published datasheet condition
Cpyr = 5,3 pF Cpgpo	0.8 pF	Published datasheet condition
Cps	4.5 pF	Published datasheet condition
Cps = 4,5 pF Cpipyt-D2D2t	0.15 pF	Published datasheet condition
Epaisseur de la ligne (Vg3 = 7 mm 800 Vv ϕ ,		Published datasheet condition
Published value	0.16 mm	Published datasheet condition
Cgr	7 PF	Published datasheet condition
Cgr = 7,0 PF Cp2!	2.8 pF	Published datasheet condition
p1 = 3,0 PP CD1DY!	0.6 PF	Published datasheet condition
Cpyr	3.3 PF	Published datasheet condition
Cpyr = 3,3 PF Cpgpar	0.8 PF	Published datasheet condition
Cpz	2.8 pF	Published datasheet condition
Epaisseur de la ligne (Vs3	800 V	Published datasheet condition
VgB	800 v	Published datasheet condition

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grenzdaten }	1000 V	Published datasheet condition
Vat	400 V	Published datasheet condition
~Vg	100 V	Published datasheet condition
Wy	3 mw	Published datasheet condition
Vgy	1000 V	Published datasheet condition
Vgy = max. 1000 V VD1D1'p = maxX	450 V	Published datasheet condition
Vg3 =min. 800 V Vpep2'p	750 V	Published datasheet condition
Vgo	400 V	Published datasheet condition
Vg1 = max. oV Rp = maxX	5 M Ω	Published datasheet condition
Vgt	100 V	Published datasheet condition
Vg3 = max, 1000.V VD1D1'p	450 V	Published datasheet condition
Vg3 = min. 800 V Vpop2'p	750 V	Published datasheet condition
Vgo = max. 400V vip	3 mW	Published datasheet condition
Vg1 = max. ov Rp	5 M Ω	Published datasheet condition

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vg1	100 V	Published datasheet condition
Vg3 = max,	1000 V	Published datasheet condition
Vg3 = min. 800 V Vp2p2'p	750 V	Published datasheet condition
Vg2	400 V	Published datasheet condition
Vg2 = max. 400V L4	3 mW	Published datasheet condition
Vg1 = max,	100 V	Published datasheet condition

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and their source documents.

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