

ELECTRONIC TUBE REFERENCE

DG736

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Philips/Mullard DG-series cathode-ray instrument tube for oscillographic and measurement display, with manufacturer-defined electrostatic beam focusing, deflection, screen, and accelerating characteristics for type DG736.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Electrostatic focusing/deflection CRT section; electrical/screen/deflection data retained in parameter rows.

The Philips DG736 is a high-sensitivity oscilloscope crt with green, medium persistence.



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	6.3 V	—
Heater Current	300 mA	—
Phosphor Variant	green, medium persistence 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage y_c	6.3 V	Heater voltage y_c = 6.3 V
Heater current I_f	300 mA	Heater current I_f = 0.3 A
Grid No	5.7 pF	Grid No. 1 to all other electrodes C_{g1} = 5.7 pF
Cathode to all other electrodes CE	3.3 pF	Cathode to all other electrodes C_E = 3.3 pF
LINE WIDTH measured on a circle of	50 mm	LINE WIDTH measured on a circle of 50 mm diameter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Beam current Ij	0.5 uA	Beam current Ij = 0.5 μA
Line width	0.4 mm	Line width = 0.4 mm
Negative grid No	1 V	Negative grid No.1 voltage for
Grid No	1 V	Grid No.1 voltage
cathode V _{kf}	180 V	cathode V _{kf} 180 V
Negative grid No	1 V	Negative grid No.1 voltage per kV of
focused spot -V _g	27–53 V	focused spot -V _{g1} 27-53 V V82.44

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection factor	24.5–30 V	Deflection factor 4x plates Mx = 24.5-30.0 V/cm

TUBE TINKER

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