

ELECTRONIC TUBE REFERENCE

MW221

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Mullard cathode-ray tube with published electrical ratings and operating data. The available extracted source does not establish a sufficiently specific television, radar, or instrumentation role for a narrower classification.

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
No fixed ratings recorded.
Ratings and characteristics extracted from supplied source.

CathodeRay; electrical ratings and operating data extracted from the supplied Mullard datasheet.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	4 V	—
HeaterOrFilamentCurrent	1 A	—
DeflectionMethod	Magnetic	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FinalAnodeVoltageMaximum	5000 V	—
FinalAnodeVoltage	5000 V	—
BeamCurrentMaximum	100 uA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4 V	—
Heater current	1 A	—
Grid No.1 cutoff voltage	0 to -100 V	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful screen diameter	220 mm	—
Deflection method	Magnetic	—
Focusing method	Magnetic	—
Screen construction	Metal-backed	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating anode voltage	5000 V	—
Grid No.2 / auxiliary anode voltage	250 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	13 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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