



ELECTRONIC TUBE REFERENCE

MC1316

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

High-voltage blue-violet very-short-persistence cathode-ray tube designed for flying-spot scanning, with magnetic focusing and deflection and approximately 25 kV operating voltage.

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	
MAXIMUM PLATE VOLTAGE	27000 V
<i>CRT-specific optical, focusing, deflection, accelerating-voltage, scan, capacitance, and safety data are retained in TUBE_SECTION_PARAMETER because the locked promoted fields primarily target conventional electrode sections.</i>	

Metal-backed flying-spot scanner CRT with blue-violet very-short-persistence screen, magnetic focusing, and magnetic 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	27000 V	—
Typical Anode Voltage	25000 V	—
Maximum Anode Voltage	27000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Magnetic	—
Deflection Method	Magnetic	—
Screen	Blue-violet, very 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
Heater voltage	6.3 V	CathodeRay

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	300 mA	CathodeRay
Useful screen diameter minimum	108 mm	FlyingSpotScanner
Anode and grid No.2 voltage	25 kV	FlyingSpotScanner
Beam current minimum	50 μ A	FlyingSpotScanner
Beam current maximum	150 μ A	FlyingSpotScanner
Grid No.1 cutoff voltage minimum	50 V	FlyingSpotScanner
Grid No.1 cutoff voltage maximum	100 V	FlyingSpotScanner
Resolution at screen center better than	1000 lines	FlyingSpotScanner
Anode and grid No.2 voltage maximum	27 kV	FlyingSpotScanner
Anode and grid No.2 voltage minimum	20 kV	FlyingSpotScanner

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing	Magnetic	CathodeRay
Deflection	Magnetic	CathodeRay



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful screen diameter	108 mm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum switch-on heater voltage in series chain	9.5 V	SeriesHeater

TUBE TINKER

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