

ELECTRONIC TUBE REFERENCE

AW4380

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

European rectangular monochrome television picture tube with electrostatic focusing, magnetic deflection, and a metal-backed or aluminized screen. Manufacturer documentation supports high-voltage direct-view receiver service with compact wide-angle geometry.

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	16000 V
CRT section; source publishes screen, focusing, deflection and high-voltage operating data.	

43 cm monochrome cathode-ray picture tube with magnetic deflection, electrostatic focusing and clear screen.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—
Deflection Angle	90 degree	—
DeflectionMethod	Magnetic	—
FocusMethod	Electrostatic	—
UsefulDiagonalMinimum	390 mm	—
UsefulWidthMinimum	362 mm	—
UsefulHeightMinimum	273 mm	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitances	Published	See source sheet for electrode-specific capacitance values

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Monochrome television picture tube	Television receiver service


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen color	White	TelevisionCRT
Focusing	Electrostatic	TelevisionCRT
Deflection	Double magnetic	TelevisionCRT

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen useful dimension	390 mm	TelevisionCRT
Final accelerator voltage	16 kV	TelevisionCRT
Grid No.2 voltage	300 V	TelevisionCRT
Heater voltage	6.3 V	TelevisionCRT
Heater current	300 mA	TelevisionCRT


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 Mazda Belvu

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

1968 MAZDA BELVU

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ScreenDiagonal	43 cm	—
Deflection	Magnetic text	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 capacitance	7 pF	—
External conductive coating to final accelerator capacitance	1400 pF	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final accelerator operating voltage	16000 V	—
Grid No.2 operating voltage	300 V	—
Grid No.1 cutoff voltage range	40–80 V	—
Final accelerator minimum voltage	12000 V	—
Final accelerator maximum voltage	18000 V	—
Maximum grid No.2 voltage	500 V	—
Maximum negative grid No.1 voltage	150 V	—



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and their source documents.

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