

ELECTRONIC TUBE REFERENCE

A4711W

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

47 cm monochrome television picture tube with electrostatic focusing, magnetic deflection, approximately 110-degree scanning, and high-voltage direct-view operation around 18-20 kV.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Small-button neo	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	20000 V
MAXIMUM SCREEN VOLTAGE	700 V
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.	

47 cm 110-degree self-protected monochrome television picture tube with tinted aluminized screen.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—
Focusing Method	Electrostatic text	—
Deflection Method	Magnetic text	—
Deflection Angle	110 deg	—
Light Transmission	50 percent	Approximate
Grid Cutoff Voltage Range	-40 to -77 V	AtFirstAnode=400V
Grid Cutoff Voltage Range	-50 to -93 V	AtFirstAnode=500V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final Anode Voltage	20000 V	—
Focus Electrode Voltage Minimum	0 V	—
Focus Electrode Voltage Maximum	400 V	—
First Anode Voltage	400 V	OperatingOption1
First Anode Voltage	500 V	OperatingOption2
Maximum Heater Surge Voltage	9.5 V	SeriesHeaterOperation

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	300 mA	Published nominal value
Screen diagonal	47 cm	Published
Deflection angle	110 deg	Published



SOURCE DATA APPENDIX

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
Grid 1 capacitance	6 pF	—
Cathode capacitance	4 pF	—
Useful screen diagonal	446 mm	—
Deflection angle	110 deg	—
Final accelerator voltage	18 kV	—
Final accelerator voltage minimum	11 kV	—
Grid 2 voltage maximum	700 V	—
Cathode-to-heater voltage maximum	250 V	—