



ELECTRONIC TUBE REFERENCE

A5911W

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Large 59 cm-class monochrome television picture tube for high-voltage direct-view service, using manufacturer-specified magnetic deflection, focusing, screen, and beam-control characteristics.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM SCREEN VOLTAGE	700 V
<i>Published Mullard ratings, characteristics, capacitances, and operating data promoted where applicable; additional electrical values retained as parameters.</i>	

59 cm direct-view monochrome television CRT, 110-degree deflection, electrostatic focus, metal-backed 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
Focusing method	Electrostatic	—
Deflection method	Magnetic	—
Deflection angle	110 deg	—
Light transmission	50 %	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen construction	Metal-backed	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Direct-view television / radar display	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final-anode voltage maximum	20 kV	—
Final-anode voltage operating	16 kV	—
First-anode voltage maximum	800 V	—
Focus-electrode positive voltage maximum	1000 V	—
Focus-electrode negative voltage maximum	-500 V	—
Heater surge voltage maximum	9.5 V rms	SeriesHeater
Grid positive excursion maximum	2 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply source impedance maximum	1.5 Mohm	—



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 capacitance	6 pF	—
Cathode capacitance	4 pF	—
Useful screen diagonal	566 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	—

TUBE TINKER

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