



ELECTRONIC TUBE REFERENCE

AW2111

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Eight-and-one-half-inch rectangular portable-television picture tube with electrostatic focusing and approximately 90-degree magnetic deflection, designed for compact direct-view monochrome receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11.5 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	16000 V
<i>Published Mullard ratings, characteristics, capacitances, and operating data promoted where applicable; additional electrical values retained as parameters.</i>	

8.5-inch rectangular portable-TV CRT with electrostatic focus and 90-degree deflection.

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	90 deg	—
Heater voltage nominal	11.5 V	—
Grid cutoff range	-32 to -69 V	—
Cathode cutoff range	29 to 62 V	—

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
Heater voltage minimum	9.25 V	—
Heater voltage maximum	13.8 V	—
Final-anode operating voltage	12 kV	—
Focus-electrode control range	0 to 400 V	—
First-anode operating voltage	400 V	—
Final-anode voltage maximum	16 kV	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final-anode voltage minimum	8 kV	—
Focus-electrode positive voltage maximum	1000 V	—
Focus-electrode negative voltage maximum	-500 V	—
First-anode voltage maximum	800 V	—
Focus-electrode current maximum	25 uA	—
First-anode current maximum	15 uA	—
First-anode resistance maximum	1 Mohm	—
Focus-electrode resistance maximum	3 Mohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-all capacitance	7 pF	—
Cathode-to-all capacitance	4 pF	—
Final-anode-to-coating capacitance	250 pF	—

TUBE TINKER

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

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