



ELECTRONIC TUBE REFERENCE

EE50

Specialized - Uncategorized electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
OTHER

Single-ended secondary-emission valve designed for television-frequency amplification, exploiting secondary-electron multiplication to provide useful gain at wide video and television bandwidths.

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 Other	
PLATE RESISTANCE	250000 Ω
TRANSCONDUCTANCE	0.014 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.2 W
Secondary-emission television amplifier section.	

The Mullard EE50 is a single-ended secondary-emission valve intended for television-frequency amplification.



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 · Other

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Supply Voltage	550 V	—
Maximum Plate Voltage	250 V	—
Maximum Plate Dissipation	2.5 W	—
Maximum Screen Supply Voltage	550 V	—
Maximum Screen Voltage	250 V	—
Maximum Screen Dissipation	0.2 W	—
Maximum Secondary-Emission Electrode Supply Voltage	550 V	—
Maximum Secondary-Emission Electrode Voltage	150 V	—
Maximum Secondary-Emission Electrode Dissipation	1.5 W	—
Plate Voltage	250 V	TelevisionAmplifier
Screen Voltage	250 V	TelevisionAmplifier
Secondary-Emission Electrode Voltage	-150 V	TelevisionAmplifier



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 · Other

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Transconductance	14000 μ S	—
Plate resistance	0.25 Mohm	—
Equivalent noise resistance	3000 ohm	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube construction	Secondary-emission amplifier system	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	250 V	—
Typical grid 2 voltage	250 V	—
Secondary cathode voltage	150 V	—
Grid 1 voltage	-3 V	—
Plate current	10 mA	—
Grid 2 current	0.6 mA	—
Secondary cathode current	-8 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cold plate-grid capacitance maximum	0.003 pF	—
Cold grid input capacitance	7.7 pF	—
Cold plate capacitance	7.7 pF	—
Hot grid input capacitance	9.1 pF	—

TUBE TINKER

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