

Mullard high-slope RF pentode for demanding radio, radar, television, and wideband signal-amplifier applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9G	BASE PINS	9
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 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.0065 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	1.7 W
MAXIMUM CATHODE CURRENT	15 mA
Published ratings and characteristics promoted from the supplied Brimar source.	

The Mullard EF50 is a single-ended RF pentode with dual control-grid operating modes.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cutoff characteristic	Sharp cutoff	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Short-wave RF amplification	—



SOURCE OPERATING CONDITIONS

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1958 Mullard Receiving Tubes

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

1958 MULLARD RECEIVING TUBES

Section 1 · Pentode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—



1963 Mullard

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

1963 MULLARD
Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—
Plate Voltage	250 V	—
Screen Voltage	250 V	—
Plate Current	10 mA	—
Screen Current	3 mA	—
Transconductance	6500 uS	—
Plate Resistance	1000000 ohm	—
Plate-Grid Capacitance Maximum	0.007 pF	—
Input Capacitance Average	8.3 pF	—
Output Capacitance Average	5.2 pF	—
Grid1-Grid2 Capacitance	2.4 pF	—
Input Damping Resistance	4000 ohm	50MHz
Output Damping Resistance	50000 ohm	50MHz
Grid Voltage for 10:1 Transconductance Reduction	-4.5 V	ControlledByGrid1
Grid Voltage for 10:1 Transconductance Reduction	-53 V	ControlledByGrid3

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	300 V	—
Maximum Screen Voltage	300 V	—
Maximum Plate Dissipation	3 W	—
Maximum Screen Dissipation	1.7 W	—

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 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Typical plate voltage	250 V	—
Typical screen voltage	250 V	—
Typical grid voltage	-1.55 V	—
Typical plate current	10 mA	—
Typical screen current	3 mA	—
Transconductance	6500 μ S	—
Plate resistance	1 Mohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	5.2 pF	—
Grid input capacitance	8.3 pF	—
Plate-grid capacitance maximum	0.007 pF	—
Grid-cathode capacitance maximum	0.01 pF	—

TUBE TINKER

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and their source documents.

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