

Mullard short-wave sharp-cutoff RF pentode with high mutual conductance. Its substantial transconductance and fixed-control characteristic provide strong gain in short-wave high-frequency signal stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	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	500000 Ω
TRANSCONDUCTANCE	0.0077 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	1.7 W
Published source values promoted where applicable; additional published values retained as parameters.	

The Mullard EF54 is a short-wave sharp-cutoff RF pentode with high mutual conductance.



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	VHF 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 · 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	1.45 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7700 μ S	—
Plate Resistance	500000 ohm	—
Input Capacitance	6.2 pF	—
Output Capacitance	4.9 pF	—
Plate-Grid Capacitance	0.02 pF	—
Grid1-Grid2 Capacitance	2.2 pF	—
Equivalent Noise Resistance	700 ohm	—
Input Resistance	10000 ohm	50MHz

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	—
Maximum Operating Frequency	250 MHz	—