

ELECTRONIC TUBE REFERENCE

EF37

Voltage Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-gain low-microphony pentode for RF, IF, and sensitive audio preamplifier stages, with very high plate resistance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	2500000 Ω
TRANSCONDUCTANCE	0.0018 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	6 mA
Published source values promoted where applicable; additional published values retained as parameters.	

The Mullard EF37 is a high-gain low-microphony pentode for RF, IF, and AF preamplifier stages.



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

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	Audio-frequency voltage amplification	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Low-microphony construction	Yes	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	RForIFAmplifier
Screen Voltage	100 V	RForIFAmplifier
Plate Current	3 mA	RForIFAmplifier
Screen Current	0.8 mA	RForIFAmplifier
Grid Voltage	-2 V	—
Maximum Plate Voltage	300 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Screen Voltage	125 V	—
Maximum Plate Dissipation	1 W	—
Maximum Screen Dissipation	0.3 W	—
Triode-Connected Plate Voltage	150 V	TriodeConnection

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1800 uS	—
Plate Resistance	2500000 ohm	—
Plate-Grid Capacitance Maximum	0.02 pF	—
Input Capacitance	5.5 pF	—
Output Capacitance	8.5 pF	—
Triode-Connected Transconductance	2800 uS	TriodeConnection
Triode-Connected Plate Resistance	10000 ohm	TriodeConnection
Triode-Connected Amplification Factor	28 ratio	TriodeConnection