



ELECTRONIC TUBE REFERENCE

EC53

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Miniature ultra-short-wave triode for low-power oscillator service to approximately 600 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 250 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	11400 Ω
TRANSCONDUCTANCE	0.0029 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3.6 W
<i>Published Mullard ratings and characteristics promoted from the supplied source.</i>	

Miniature ultra-short-wave triode for low-power oscillator service to about 600 MHz.



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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	250 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	600 MHz	Oscillator



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 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	UHF/VHF oscillator or amplifier	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.3 pF	—
Output capacitance	0.13 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage characteristic	200 V	—
Plate current	7.5 mA	—
Plate resistance	1400 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum operating frequency	600 MHz	—
Oscillator plate voltage	250 V	110MHz
Oscillator plate current	14.5 mA	110MHz
RF output power	1.3 W	110MHz
Oscillator plate voltage	250 V	165MHz
Oscillator plate current	14.5 mA	165MHz
RF output power	1.2 W	165MHz
Oscillator plate voltage	250 V	210MHz
Oscillator plate current	12.5 mA	210MHz
RF output power	0.8 W	210MHz
Oscillator plate voltage	250 V	285MHz
Oscillator plate current	12.5 mA	285MHz
RF output power	0.5 W	285MHz
Oscillator plate voltage	200 V	335MHz
Oscillator plate current	12.5 mA	335MHz
RF output power	0.35 W	335MHz
Oscillator plate voltage	200 V	400MHz
Oscillator plate current	12.5 mA	400MHz
RF output power	0.3 W	400MHz

TUBE TINKER

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and their source documents.

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