

ELECTRONIC TUBE REFERENCE

M8080

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Special-quality RF power triode for amplifier or oscillator service in equipment subject to vibration and shock.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.8 W
MAXIMUM CATHODE CURRENT	21 mA
Special-quality RF power triode.	

Special-quality RF power triode for power-amplifier or oscillator service in equipment subject to vibration and shock.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	150 mA	—
Plate Voltage	250 V	—
Plate Current	10.5 mA	—
Transconductance	2200 μ S	—
Amplification Factor	17 ratio	—
Plate Resistance	7700 ohm	—
Output Capacitance	1.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	150 MHz	—
Maximum Plate Supply Voltage	550 V	—
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	3.8 W	—
Maximum Negative Grid Voltage	-110 V	—
Maximum Grid Current	55 mA	—
Maximum Cathode Current	21 mA	—

1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cout	1.2 pF	Published in approved M8080.pdf target datasheet; Section1
Cin – 1.35	2.25 pF	Published in approved M8080.pdf target datasheet; Section1
Cout –_ 098	1.62 pF	Published in approved M8080.pdf target datasheet; Section1
e – 1.2	2 pF	Published in approved M8080.pdf target datasheet; Section1
3.25. 25	4 mA	Published in approved M8080.pdf target datasheet; Section1
2.82 3.68	0.33 mA	Published in approved M8080.pdf target datasheet; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ig max	5.5 mA	Published in approved M8080.pdf target datasheet; Section1
Ik max	21 mA	Published in approved M8080.pdf target datasheet; Section1
Maximum acceleration (continuous operation)	2.5 g	Published in approved M8080.pdf target datasheet; Section1
Maximum shock (short duration)	500 g	Published in approved M8080.pdf target datasheet; Section1
T b u 1b max	170 °C	Published in approved M8080.pdf target datasheet; Section1
Anode curre nt { - - - 9.0 12	1.22 mA	Published in approved M8080.pdf target datasheet; Section1
Mutual co nductance - - 2.0 2.4	0.157 mA	Published in approved M8080.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current. $V_y = \pm 30V$ 2.5	50 μA	Published in approved M8080.pdf target datasheet; Section1
f =	150 MHz	Published in approved M8080.pdf target datasheet; Section1
No other voltages applied,	5 g	Published in approved M8080.pdf target datasheet; Section1
No applied voltages ,	500 g	Published in approved M8080.pdf target datasheet; Section1