



ELECTRONIC TUBE REFERENCE

M8082

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Special-quality rugged output pentode for professional equipment exposed to shock and vibration.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	130000 Ω
TRANSCONDUCTANCE	0.0025 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	4.75 W
MAXIMUM SCREEN DISSIPATION	0.8 W
MAXIMUM CATHODE CURRENT	23 mA
<i>Special-quality output pentode.</i>	

Special-quality output pentode for equipment subject to vibration and shock and requiring controlled electrical characteristics.

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	200 mA	—
Plate Voltage	250 V	—
Screen Voltage	250 V	—
Plate Current	16 mA	—
Screen Current	2.3 mA	—
Grid Voltage	-13.5 V	—
Transconductance	2500 μ S	—
Plate Resistance	130000 ohm	—
Input Capacitance	3.8 pF	—
Output Capacitance	6.5 pF	—
Plate-Grid Capacitance Maximum	0.3 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	100 MHz	—

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 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ctn	3.8 pF	Published in approved M8082.pdf target datasheet; Section1
Co ut	6.5 pF	Published in approved M8082.pdf target datasheet; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
t,	16 mA	Published in approved M8082.pdf target datasheet; Section1
1. 2	2.3 mA	Published in approved M8082.pdf target datasheet; Section1
gm	2.5 mA	Published in approved M8082.pdf target datasheet; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vg	2 mA	Published in approved M8082.pdf target datasheet; Section1
P g2 max	800 mW	Published in approved M8082.pdf target datasheet; Section1
Ig 1 max	3.3 mA	Published in approved M8082.pdf target datasheet; Section1
Ik max	23 mA	Published in approved M8082.pdf target datasheet; Section1
Max im um acce leration (co nt in uous ope ration)	2.5 g	Published in approved M8082.pdf target datasheet; Section1
Maxim um shock (s hort d urat io n)	500 g	Published in approved M8082.pdf target datasheet; Section1
Heater current 0.65 184	216 mA	Published in approved M8082.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode cu r re nt { 0~ 15 12	18 mA	Published in approved M8082.pdf target datasheet; Section1
13.9 16.1	0.86 mA	Published in approved M8082.pdf target datasheet; Section1
Screen -grid cu rren t { 0~ 2.0 1.3	2.7 mA	Published in approved M8082.pdf target datasheet; Section1
1.74 2.26	0.2 mA	Published in approved M8082.pdf target datasheet; Section1
J 500 hou rs 2.5 1 .7	3.2 mA	Published in approved M8082.pdf target datasheet; Section1
"(1000 hou rs 4.0 1 .6	3.2 mA	Published in approved M8082.pdf target datasheet; Section1
othe r vo ltages appl ied,	5 g	Published in approved M8082.pdf target datasheet; Section1

TUBE TINKER

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