ELECTRONIC TUBE REFERENCE

M8081

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

> Special-quality VHF double triode for equipment exposed to severe vibration and shock, with statistically controlled characteristics and operation extending to approximately 250 MHz.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	6.3 V / 450 mA	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

PLATE RESISTANCE	6800 Ω
TRANSCONDUCTANCE	0.0056 S
AMPLIFICATION FACTOR	38
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.6 W

Representative of two identical special-quality VHF triode sections.

SECTION2 Triode

PLATE RESISTANCE	6800 Ω
TRANSCONDUCTANCE	0.0056 S
AMPLIFICATION FACTOR	38
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.6 W

Second physical triode section; identical twin section represented explicitly.

Special-quality VHF double triode for equipment subject to vibration and shock with statistically controlled characteristics.

SOURCE OPERATING CONDITIONS

1963 Mullard

SOURCE PDF

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	**450 mA**	—
Plate Voltage	**100 V**	EachSection
Plate Current	**9 mA**	EachSection
Cathode Voltage	**0.9 V**	EachSection
Transconductance	**5600 uS**	EachSection
Amplification Factor	**38 ratio**	EachSection
Plate Resistance	**6800 ohm**	EachSection
Plate-Grid Capacitance	**1.6 pF**	EachSection
Input Capacitance	**2.1 pF**	EachSection

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum Operating Frequency	**250 MHz**	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1967 Mullard Receiving Tubes for Maintenance

SOURCE PDF

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**
* Ca - g 1	**6 pF**	Published in approved M8081.pdf target datasheet; Section1
* Ci n	**2.1 pF**	Published in approved M8081.pdf target datasheet; Section1
Cou t '	**0.45 pF**	Published in approved M8081.pdf target datasheet; Section1
Cout "	**0.35 pF**	Published in approved M8081.pdf target datasheet; Section1
Cll - I<	**4 pF**	Published in approved M8081.pdf target datasheet; Section1
(in 1.4	**2.8 pF**	Published in approved M8081.pdf target datasheet; Section1
250	**0.55 pF**	Published in approved M8081.pdf target datasheet; Section1
(a - I{ 1.2	**1.8 pF**	Published in approved M8081.pdf target datasheet; Section1

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
la	**9 mA**	Published in approved M8081.pdf target datasheet; Section1
gm	**5.6 mA**	Published in approved M8081.pdf target datasheet; Section1

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
II< max	**25 mA**	Published in approved M8081.pdf target datasheet; Section1
i. max. 2 x	**4.5 mA**	Published in approved M8081.pdf target datasheet; Section1
Maximum acce lerati o n (con ti nu o us op erat io n)	**2.5 g**	Published in approved M8081.pdf target datasheet; Section1
Max imum shock (short d u rat ion)	**500 g**	Published in approved M8081.pdf target datasheet; Section1
Heater current 0.65 420	**480 mA**	Published in approved M8081.pdf target datasheet; Section1
Anode cu rrent 0.65 6.5	**11.5 mA**	Published in approved M8081.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rk = 1, 5kQ , Rg • = Rg • = on. 2.5	**15 mV**	Published in approved M8081.pdf target datasheet; Section1
oth e r voltages appli ed ,	**2 g**	Published in approved M8081.pdf target datasheet; Section1
No app lied volt ages,	**500 g**	Published in approved M8081.pdf target datasheet; Section1

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker