



ELECTRONIC TUBE REFERENCE

7211

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Planar triode for high-frequency electronic service. Available source material does not establish a narrower application confidently.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.038 S
AMPLIFICATION FACTOR	80
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	150 mA
<i>Promoted fields populated from published ratings/characteristics; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

Forced-air rugged ceramic/metal planar triode for CW or pulsed oscillator/amplifier/frequency-multiplier service to 3 GHz.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Cathode Capacitance	8 pF	—
Grid-Plate Capacitance	2.25 pF	—
Plate-Cathode Capacitance Maximum	0.06 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cutoff Bias Maximum	-30 V	Ip=1mA; Ep=1kV

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency CW Maximum	2.5 GHz	—
Pulse Plate Voltage Maximum	3500 V	PlatePulsed
Pulse Plate Current Maximum	5 A	PlatePulsed
Typical CW Useful Output	45 W	Frequency=700MHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current Range	1.2 A–1.4 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Heating Time	60 s	—
Grid-Cathode Capacitance	8 pF	—
Grid-Plate Capacitance	2.25 pF	—
Plate-Cathode Capacitance Maximum	0.06 pF	—
Cutoff Bias Maximum	-30 V	—
CW Plate Voltage Maximum	2500 V	—
CW Plate Current Maximum	150 mA	—
CW Grid Current Maximum	45 mA	—
Frequency Full Rating Maximum	2.5 GHz	—
Pulse Plate Voltage Maximum	3500 V	—
Pulse Duration Maximum	6 us	—
Duty Factor Maximum	0.0033	—
Forced-Air Plate Dissipation Maximum	100 W	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	3000 MHz	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1975 Eimac Tube Manual

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

1975 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current Range	1.15 A–1.45 A	—
Cathode Heating Time	60 s	—
Cutoff Bias	-30 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	8 pF	—
Output Capacitance	0.06 pF	—
Grid-Plate Capacitance	2.25 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Maximum	3 GHz	—
Pulse Plate Voltage Maximum	3500 V	PlatePulsed
Pulse Current Maximum	4.8 A	PulseModulator
Pulse Duration Maximum	6 us	—
Duty Factor Maximum	0.0033	—
CW Plate Voltage Maximum	2500 V	—
CW Plate Current Maximum	150 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Current Maximum	45 mA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1976 Eimac Tube Manual

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

1976 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current Range	1.15 A–1.45 A	—
Cathode Heating Time	60 s	—
Cutoff Bias	-30 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	8 pF	—
Output Capacitance	0.06 pF	—
Grid-Plate Capacitance	2.25 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Maximum	3 GHz	—
Pulse Plate Voltage Maximum	3500 V	PlatePulsed
Pulse Current Maximum	4.8 A	PulseModulator
Pulse Duration Maximum	6 us	—
Duty Factor Maximum	0.0033	—
CW Plate Voltage Maximum	2500 V	—
CW Plate Current Maximum	150 mA	—
Grid Current Maximum	45 mA	—

TUBE TINKER

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and their source documents.

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