



ELECTRONIC TUBE REFERENCE

7289

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 V / 1.05 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.024999999999999998 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	4.8 A
<i>Promoted only from clearly labeled printed ratings/characteristics; specialized and operating data retained in parameter rows.</i>	

Rugged ceramic/metal planar triode for CW/pulsed oscillator, amplifier, frequency multiplier, pulse modulator or regulator 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	900 mA–1.05 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Cathode Capacitance	5.6–7 pF	—
Grid-Plate Capacitance	1.95–2.15 pF	—
Plate-Cathode Capacitance Maximum	0.035 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	2.5 GHz	—
Pulse Plate Voltage Maximum	3500 V	PlatePulsed
Pulse Plate Current Maximum	3 A	PlatePulsed
Pulse Cathode Current Maximum	4.8 A	PulseModulator
Typical CW Useful Output	40 W	Frequency=500MHz

SOURCE OPERATING CONDITIONS

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

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6 V	—
Heater/filament current	1.05 A	—
Amplification factor	100	—
Transconductance	25000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	5.6 pF	—
Output/plate-cathode capacitance	7 pF	—
Feedback/grid-plate capacitance	0.35 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	3500 V	—
Maximum plate dissipation	100 W	—
Maximum grid dissipation	2 W	—
Maximum plate/cathode current	4.8 A	—
Frequency for maximum ratings	2500 MHz	—
CW plate voltage	1000 V	CW
Pulse peak plate voltage	3500 V	Pulse
Pulse cathode current	4.8 A	Pulse
Useful output at 500 MHz	27 W	500MHz
Useful output at 2900 MHz	9.5 W	2900MHz



SOURCE DATA APPENDIX

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
100 Watts Plate Dissipation	100 Watts	Published datasheet; semantic line recovery
as high as 2500 megacycles. In addition, it may be used as a plate-pulsed	2500 megacycles	Published datasheet; semantic line recovery
Heater Current at Ef =6.0 volts. 1.0t Amperes Cooling	6 volts	Published datasheet; semantic line recovery
Cathode Heating Time, minimum. 60 Seconds Plate and Plate Seal-- Conduction and Forced Air	60 Seconds	Published datasheet; semantic line recovery
Grid to Plate: (gtop)..... 2.0 pf Recommended Air Flow Cowling -157-JAN	2 pf	Published datasheet; semantic line recovery
Grid to Cathode: (gtok)..... 6.3 pf Recommended Air Flow on Plate Radiator at Sea Level	6.3 pf	Published datasheet; semantic line recovery
(p to k), maximum. 0.035 pf Dissipation 100 Watts.....12.5 Cu.Ft.PerMin.	0.035 pf	Published datasheet; semantic line recovery
(p to k), maximum. 0.035 pf Dissipation 100 Watts.....12.5 Cu.Ft.PerMin.	100 Watts	Published datasheet; semantic line recovery
Key-Down Conditions Per Tube Without Amplitude Peak Negative RF Grid Voltage. 400 Volts	400 Volts	Published datasheet; semantic line recovery
Modulation\$ DC Grid Current. 50 Milliamperes	50 Milliamperes	Published datasheet; semantic line recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage™. 4.5 to 5.7 Volts	5.7 Volts	Published datasheet; semantic line recovery
DC Cathode Current. 125 Milliamperes	125 Milliamperes	Published datasheet; semantic line recovery
Frequency..... ... 2500 Megacycles	2500 Megacycles	Published datasheet; semantic line recovery
DC Plate Voltage. 1000 Volts Plate Dissipation. 100 Watts	1000 Volts	Published datasheet; semantic line recovery
DC Plate Voltage. 1000 Volts Plate Dissipation. 100 Watts	100 Watts	Published datasheet; semantic line recovery
Negative DC Grid Voltage. 150 Volts Grid Dissipation.. 2.0 Watts	150 Volts	Published datasheet; semantic line recovery
Negative DC Grid Voltage. 150 Volts Grid Dissipation.. 2.0 Watts	2 Watts	Published datasheet; semantic line recovery
Peak Positive RF Grid Voltage. . . . 30 Volts Envelope Temperature at Hottest Point. 300 C	30 Volts	Published datasheet; semantic line recovery
Carrier Conditions Per Tube For Use With a Maximum Peak Negative RF Grid Voltage. 400 Volts	400 Volts	Published datasheet; semantic line recovery
Modulation Factor of 1.0 DC Grid Current. 50 Milliamperes	50 Milliamperes	Published datasheet; semantic line recovery
Heater Voltage*. 4.5 to 5.7 Volts	5.7 Volts	Published datasheet; semantic line recovery
DC Cathode Current.....100 Milliamperes	100 Milliamperes	Published datasheet; semantic line recovery
Frequency. 2500 Megacycles	2500 Megacycles	Published datasheet; semantic line recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Voltage 600 Volts Plate Dissipation. 70 Watts	600 Volts	Published datasheet; semantic line recovery
DC Plate Voltage 600 Volts Plate Dissipation. 70 Watts	70 Watts	Published datasheet; semantic line recovery
Negative DC Grid Voltage. 150 Volts Grid Dissipation. ceiee.. 2.0 Watts	150 Volts	Published datasheet; semantic line recovery
Negative DC Grid Voltage. 150 Volts Grid Dissipation. ceiee.. 2.0 Watts	2 Watts	Published datasheet; semantic line recovery
Peak Positive RF Grid Voltage.....30 Volts Envelope Temperature at Hottest Point 300 C	30 Volts	Published datasheet; semantic line recovery
Heater Voltage*. 5.7 to 6.0 Volts Negative Grid Voltage	6 Volts	Published datasheet; semantic line recovery
Frequency..... 3000 Megacycles Average During Plate Pulseff.. 150 Volts	3000 Megacycles	Published datasheet; semantic line recovery
Frequency..... 3000 Megacycles Average During Plate Pulseff.. 150 Volts	150 Volts	Published datasheet; semantic line recovery
Voltage. 3500 Volts	3500 Volts	Published datasheet; semantic line recovery
Average During Plate Pulse. 1.8 Amperes	1.8 Amperes	Published datasheet; semantic line recovery
Plate Dissipation A 27 Watts	27 Watts	Published datasheet; semantic line recovery
Pulse Duration. 3.0 Microseconds	3 Microseconds	Published datasheet; semantic line recovery
Average During Plate Pulse A**, ...3.0 Amperes Envelope Temperature at Hottest Point. 300 C	3 Amperes	Published datasheet; semantic line recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AVERAGE CHARACTERISTICS DC Plate Voltage. 1000 Volts	1000 Volts	Published datasheet; semantic line recovery
Heater Voltage. 6.0 Volts DC Grid Voltage, approximate. . . . -22 Volts	6 Volts	Published datasheet; semantic line recovery
Heater Voltage. 6.0 Volts DC Grid Voltage, approximate. . . . -22 Volts	22 Volts	Published datasheet; semantic line recovery
Plate Voltage. 600 Volts DC Plate Current. 90 Milliamperes	600 Volts	Published datasheet; semantic line recovery
Plate Voltage. 600 Volts DC Plate Current. 90 Milliamperes	90 Milliamperes	Published datasheet; semantic line recovery
Grid Voltage\$. . . .« Volts DC Grid Current. 10 Milliamperes	10 Milliamperes	Published datasheet; semantic line recovery
Amplification Factor..... 100 Useful Power Output..... 17 Watts	17 Watts	Published datasheet; semantic line recovery
Transconductance. 25000 Micromhos PLATE-PULSED OSCILLATOR	25000 Micromhos	Published datasheet; semantic line recovery
Plate Current. 70 Milliamperes	70 Milliamperes	Published datasheet; semantic line recovery



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

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	900 mA–1.05 A	—
Cathode Heating Time	60 s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	6.3 pF	—
Output Capacitance	0.035 pF	—
Grid-Plate Capacitance	1.98 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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse Duration Maximum	6 us	—
Duty Factor Maximum	0.0033	—
Grid-Pulsed Plate Voltage Maximum	1000 V	—
Plate-Pulsed Peak Plate Voltage Maximum	3500 V	—
Pulse Plate Current Maximum	3 A	—
Pulse Grid Current Maximum	1.8 A	—



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	900 mA–1.05 A	—
Cathode Heating Time	60 s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	6.3 pF	—
Output Capacitance	0.035 pF	—
Grid-Plate Capacitance	1.98 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	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Duty Factor Maximum	0.0033	—
Grid-Pulsed Plate Voltage Maximum	1000 V	—
Plate-Pulsed Peak Plate Voltage Maximum	3500 V	—
Pulse Plate Current Maximum	3 A	—
Pulse Grid Current Maximum	1.8 A	—

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