



ELECTRONIC TUBE REFERENCE

8893

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Compact rugged ceramic-metal planar triode for continuous-wave or pulsed oscillator and amplifier service in demanding high-frequency equipment.

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

SECTION 1 Triode	
TRANSCONDUCTANCE	0.03 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM GRID DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	5 A
<i>Promoted values are taken from printed General Characteristics / Maximum Ratings. Additional published conditions and operating data are preserved in parameters.</i>	

The EIMAC 8893 is a compact rugged ceramic/metal planar triode for cw or pulsed oscillator and amplifier service.



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	2.35 pF	—
Plate-Cathode Capacitance	0.1 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Heating Time	60 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Voltage	3500 V	—
DC Plate Current	150 mA	—
Peak Plate Current	5 A	—
Peak Grid Current	1.5 A	—
Frequency	4 GHz	—
Representative Power Output	1000 W	GridPulsed;Frequency=2.5GHz



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

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current, at	6.3 A	Current, at 6.3 volts
Plate Dissipation (maximum)	2 W	Plate Dissipation (maximum)2
Published value	2	2. With forced air cooling or appropriate conduction and/or convection cooling.
Ceramic/Metal Seals	250	Ceramic/Metal Seals 250OC
Dc GRID cuFmENT Peak Plate Voltage	1.5 kV	Dc GRID cuFmENT Peak Plate Voltage 1.5kv
PEAK PLATE CURRENT Peak Plate Current	3 mA	PEAK PLATE CURRENT Peak Plate Current 3a maximum
PEAK GRID CURRENT Power Output(useful)	1 A	PEAK GRID CURRENT Power Output(useful) 1 kw, minimum
PULSE DURATION	1	PULSE DURATION 1
Published value	1	1. For applications requiring longer pulse duration
Published value	2	2. The heater is electrically isolated from the cathode.
R Q' [1]	86	R Q'86 0214 472 544 f ornanoe the Anode
R Q' [2]	214	R Q'86 0214 472 544 f ornanoe the Anode
R Q' [3]	472	R Q'86 0214 472 544 f ornanoe the Anode
R Q' [4]	544	R Q'86 0214 472 544 f ornanoe the Anode



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 voltage nominal	6.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current nominal	1.3 A	—
Transconductance	30000 μ S	—
Amplification factor	60	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	8 pF	—
Output/plate-cathode capacitance	2.35 pF	—
Grid-plate/feedback capacitance	0.1 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	3500 V	—
Maximum plate dissipation	100 W	—
Maximum grid dissipation	1.5 W	—
Maximum cathode or pulse plate current	5 A	—
Maximum rated frequency	4 GHz	—
DC plate voltage	2000 V	ClassC;Pulsed
Peak plate voltage	3500 V	ClassC;Pulsed
DC plate current	150 mA	—
DC grid current	45 mA	—
Peak grid current	1.5 A	—
DC grid voltage	-100 V	—
Pulse duration	6 μ s	—
Duty factor	0.004	—
Representative frequency	2.5 GHz	GridPulsedOscillator
Representative peak plate voltage	1500 V	GridPulsedOscillator
Representative peak plate current	3 A	GridPulsedOscillator
Useful output power minimum	1000 W	GridPulsedOscillator

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 voltage nominal	6.3 V	—
Heater current nominal	1.3 A	—
Transconductance	30000 μ S	—
Amplification factor	60	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	8 pF	—
Output/plate-cathode capacitance	2.35 pF	—
Grid-plate/feedback capacitance	0.1 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	3500 V	—
Maximum plate dissipation	100 W	—
Maximum grid dissipation	1.5 W	—
Maximum cathode or pulse plate current	5 A	—
Maximum rated frequency	4 GHz	—
DC plate voltage	2000 V	ClassC;Pulsed
Peak plate voltage	3500 V	ClassC;Pulsed
DC plate current	150 mA	—
DC grid current	45 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak grid current	1.5 A	—
DC grid voltage	-100 V	—
Pulse duration	6 us	—
Duty factor	0.004	—
Representative frequency	2.5 GHz	GridPulsedOscillator
Representative peak plate voltage	1500 V	GridPulsedOscillator
Representative peak plate current	3 A	GridPulsedOscillator
Useful output power minimum	1000 W	GridPulsedOscillator

TUBE TINKER

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