



ELECTRONIC TUBE REFERENCE

8933

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Miniature rugged ceramic-metal planar triode for airborne and space pulsed-RF, modulator, switch, and regulator service.

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	0.038 S
AMPLIFICATION FACTOR	120
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	150 W
MAXIMUM GRID DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	7.5 A
<i>Promoted from printed general-characteristics and absolute-maximum-ratings blocks.</i>	

The EIMAC 8933 is a miniature rugged ceramic/metal planar triode for airborne and space pulsed rf, modulator, switch, and regulator 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	120	—
Transconductance	38000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	8000 V	—
Maximum plate dissipation	150 W	—
Maximum grid dissipation	1.5 W	—
Maximum pulse cathode current	7.5 A	—



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	—
Heater current nominal	1.3 A	—
Transconductance	38000 μ S	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	120	—
Cut-off bias	-30 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	9.5 pF	—
Output/plate-cathode capacitance	0.06 pF	—
Grid-plate/feedback capacitance	1.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	10000 V	—
Maximum plate dissipation	150 W	—
Maximum grid dissipation	1.5 W	—
Maximum cathode or pulse plate current	7.5 A	—
Maximum rated frequency	3 GHz	—
Grid-pulsed DC plate voltage	8000 V	GridPulsed
Plate-pulsed peak plate voltage	10000 V	PlatePulsed
Pulse plate current	5 A	—
Pulse grid current	2.5 A	—
Pulse duration	6 us	—
Duty factor	0.0033	—
Representative useful output	8000 W	PulsedAmplifier
Representative gain	6 dB	PulsedAmplifier



SOURCE DATA APPENDIX

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	38000 μ S	—
Amplification factor	120	—
Cut-off bias	-30 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	9.5 pF	—
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OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	10000 V	—
Maximum plate dissipation	150 W	—
Maximum grid dissipation	1.5 W	—
Maximum cathode or pulse plate current	7.5 A	—
Maximum rated frequency	3 GHz	—
Grid-pulsed DC plate voltage	8000 V	GridPulsed
Plate-pulsed peak plate voltage	10000 V	PlatePulsed
Pulse plate current	5 A	—
Pulse grid current	2.5 A	—
Pulse duration	6 μ s	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Duty factor	0.0033	—
Representative useful output	8000 W	PulsedAmplifier
Representative gain	6 dB	PulsedAmplifier