

ELECTRONIC TUBE REFERENCE

8533

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Metal-ceramic planar triode for grid- or plate-pulsed oscillator, amplifier, frequency-multiplier, and switching service to roughly 3 GHz. It combines 8 kV plate capability with pulse cathode current to about 7.5 A.

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	0.03 S
AMPLIFICATION FACTOR	145
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM GRID DISSIPATION	1.5 W
General characteristics and applicable CW/pulsed maximum ratings promoted semantically.	

The Eimac 8533 is a high-voltage metal-ceramic planar triode for grid- or plate-pulsed oscillator, amplifier, frequency-multiplier, and switch service up 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

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Voltage Grid Pulsed	8000 V	GridPulsed



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
Amplification factor	145	—
Transconductance	30000 μ S	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	8000 V	—
Maximum plate dissipation	100 W	—
Maximum grid dissipation	1.5 W	—
Maximum pulse/cathode current	7.5 A	—

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

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