

Eimac pulsed traveling-wave power amplifier designed for severe environments, providing approximately 500 W output under published pulse operating conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave

No fixed ratings recorded.

Promoted fields populated only where the published value maps directly to the schema; device-specific values retained as parameters.

operation in extreme enviro for 500 watts is obtained over the of Cathode Voltage . 7.0 Volts Peak Cathode Current —5000 vdc Pulse Grid Volitage 1.0 adc Filament Current 6.3 Volts Cathode Voitage 3.0 Amperes

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 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
frequency range of [1]	2.7	frequency range of 2.7-2.9 Ge.
frequency range of [2]	-2.9	frequency range of 2.7-2.9 Ge.
Cathode Voltage	7 V	Cathode Voltage . 7.0 Volts
Peak Cathode Current	-5000 V	Peak Cathode Current —5000 vdc
Pulse Grid Volitage	1 A	Pulse Grid Volitage 1.0 adc
Filament Current	6.3 V	Filament Current 6.3 Volts
Peak Cathode Current ~	4700 V	Peak Cathode Current ~4700 Vdc
Pulse Grid Voltage (Beam off)	4200 V	Pulse Grid Voltage (Beam off) 4200 Vdc
Duty Cycle . =~ = o	-90 V	Duty Cycle . =~ = o -90 Vdc
Frequency Range o	2	Frequency Range o 2%
Small Signal Gain—Minimum [1]	2.7	Small Signal Gain—Minimum 2.7-2.9 Ge
Small Signal Gain—Minimum [2]	-2.9	Small Signal Gain—Minimum 2.7-2.9 Ge
Grid Capacitance	40 dB	Grid Capacitance 40 db

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