

General Electric high-power L-band metal-ceramic traveling-wave amplifier with periodic permanent-magnet focusing, designed for pulsed radar and electronic-countermeasures service with kilowatt-class peak output.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 TravelingWave

No fixed ratings recorded.

Traveling-wave-tube RF performance is stored as condition-aware parameters from the supplied General Electric family datasheet.

General Electric ZM3397 is a high-power L-band traveling-wave tube using periodic permanent-magnet focusing and metal-ceramic construction. The supplied data gives a 1.2-1.5 GHz range, at least 10 kW peak saturated output, 36 dB minimum saturated gain, 0.05 maximum duty cycle, and 20 us maximum pulse width. Applications include radar and electronic countermeasures.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Traveling Wave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OperatingFrequencyMinimum	1.2 GHz	—
OperatingFrequencyMaximum	1.5 GHz	—
MinimumPeakSaturatedPowerOutput	10 kW	Pulsed
MinimumSaturatedGain	36 dB	—
DataGroup	L-6	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumDutyCycle	0.05	Pulsed
MaximumPulseWidth	20 us	Pulsed

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and their source documents.

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