ELECTRONIC TUBE REFERENCE

ZM3394

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

High-power L-band periodic-permanent-magnet-focused traveling-wave tube with metal-ceramic construction for radar and electronic-countermeasures applications.

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 ZM3394 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 5 kW peak saturated output, 50 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 · TravelingWave

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OperatingFrequencyMinimum	**1.2 GHz**	—
OperatingFrequencyMaximum	**1.5 GHz**	—
MinimumPeakSaturatedPowerOutput	**5 kW**	Pulsed
MinimumSaturatedGain	**50 dB**	—
DataGroup	**L-3**	—

OTHER

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

Tube Tinker

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

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