ELECTRONIC TUBE REFERENCE

ZM3415

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

General Electric low-noise broadband SRPM-focused traveling-wave amplifier with integral solid-state power supply for radar, ECM, communications, instrumentation, and radiometry.

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 ZM3415 is a low-noise broadband traveling-wave tube using SRPM focusing and an integral solid-state power supply. The supplied data gives a 9–10 GHz range, 7 dB maximum noise figure, 30 dB minimum small-signal gain, and 10 mW minimum saturated output. Applications include radar, ECM, instrumentation, communications, and radiometry.

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	**9 GHz**	—
OperatingFrequencyMaximum	**10 GHz**	—
MinimumSmallSignalGain	**30 dB**	—
MinimumSaturatedPowerOutput	**10 mW**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumNoiseFigure	**7 dB**	—

Tube Tinker

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

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