

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 ZM3409 is a low-noise broadband traveling-wave tube using SRPM focusing and an integral solid-state power supply. The supplied data gives a 7.5–8.5 GHz range, 6.5 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 · Traveling Wave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OperatingFrequencyMinimum	7.5 GHz	—
OperatingFrequencyMaximum	8.5 GHz	—
MinimumSmallSignalGain	30 dB	—
MinimumSaturatedPowerOutput	10 mW	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumNoiseFigure	6.5 dB	—

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