



ELECTRONIC TUBE REFERENCE

ZM3389

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

High-power pulsed S-band traveling-wave amplifier covering 2.7–3.1 GHz, delivering at least 5 kW peak saturated output with 37 dB gain.

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

SECTION 1 TravelingWave

No fixed ratings recorded.

Traveling-wave interaction structure; conventional receiving-tube promoted plate/grid fields are not applicable.

The ZM3389 is a high-power S-band traveling-wave tube covering 2.7 to 3.1 GHz, with at least 37 dB saturated gain and 5 kW minimum peak saturated output.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range Minimum	2.7 GHz	Published RF range
Frequency Range Maximum	3.1 GHz	Published RF range
Small Signal Gain	37 dB	Minimum published gain
Saturation Power Output	5 kW	Minimum published saturated output

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Duty	0.01 ratio	Pulsed operation
Maximum Pulse Width	20 us	Pulsed operation

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