



ELECTRONIC TUBE REFERENCE

ZM3159

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Microwave traveling-wave amplifier covering 3.4–3.6 GHz, with at least 30 dB gain, 1 mW saturated output, and 6 dB noise figure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 400 mA	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 plate/grid promoted fields are not applicable.

The ZM3159 is a traveling-wave tube covering 3.4 to 3.6 GHz, with published gain of at least 30 dB and RF output of 1 mW.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range Minimum	3.4 GHz	—
Frequency Range Maximum	3.6 GHz	—
Gain	30 dB	Minimum published gain
Saturation Power Output	1 mW	Published RF output
Noise Figure	6 dB	Maximum published noise figure