

ELECTRONIC TUBE REFERENCE

ZM3178

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Low-power broadband traveling-wave amplifier covering 7-11 GHz, with at least 25 dB gain, 5 mW saturated output, and 9 dB noise figure.

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
<i>No fixed ratings recorded.</i>
<i>Traveling-wave interaction structure; conventional plate/grid promoted fields are not applicable.</i>

The ZM3178 is a traveling-wave tube covering 7 to 11 GHz, with published gain of at least 25 dB and RF output of 5 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	7 GHz	—
Frequency Range Maximum	11 GHz	—
Gain	25 dB	Minimum published gain
Saturation Power Output	5 mW	Published RF output
Noise Figure	9 dB	Maximum published noise figure