

ELECTRONIC TUBE REFERENCE

ZM5182

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Ruggedized broadband traveling-wave amplifier covering approximately 12-18 GHz with periodic permanent-magnet focusing and hundreds of milliwatts continuous-wave RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	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 microwave amplifier section; helix, collector, gain, noise, and RF data retained as parameters.	

Ruggedized broadband traveling-wave tube covering 12-18 GHz with PPM focusing and hundreds of milliwatts CW 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 · TravelingWave

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Device class	Traveling-wave tube	—
Focusing method	Periodic permanent magnet	—
Ruggedized construction	Yes	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	Microwave amplification	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	12000 MHz	—
Frequency maximum	18000 MHz	—
Saturation gain minimum	30 dB	—
Saturation power output minimum	300 mW	CW
Saturation power output maximum	500 mW	CW

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Collector dissipation	12 W	—
Cathode voltage minimum	-2100 V	—
Cathode voltage maximum	-1700 V	—
Collector voltage	170 V	—

TUBE TINKER

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

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