



ELECTRONIC TUBE REFERENCE

8280

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Periodic-permanent-magnet traveling-wave continuous-wave amplifier for 2.1-2.5 GHz broadband microwave service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.2 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	TravelingWave
No fixed ratings recorded.	
Published ratings/characteristics promoted from supplied source; additional conditions retained in parameter table.	

Periodic-permanent-magnet traveling-wave CW amplifier for 2100-2500 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1964 RMA EIA

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	7.2 V	—
Heater Current	1 A	—
OperatingFrequencyMinimum	2100 MHz	—
OperatingFrequencyMaximum	2500 MHz	—
Heater Voltage Minimum	6.9 V	—
Heater Voltage Maximum	7.5 V	—
HeaterCurrentMinimum	800 mA	—
HeaterCurrentMaximum	1.2 A	—
CathodeCurrentMinimum	15 mA	—
Cathode Current Maximum	25 mA	—
HelixVoltageMinimum	800 V	—
HelixVoltageMaximum	1100 V	—
AnodeVoltageMinimum	160 V	—
AnodeVoltageMaximum	450 V	—
AnodeCurrentMaximum	0.05 mA	—
CollectorVoltageMinimum	800 V	—
CollectorVoltageMaximum	1100 V	—
PowerOutputMinimum	30 dBm	—
PowerOutputMaximum	35 dBm	—
NoiseFigureMaximum	20 dB	—
InputOutputImpedance	50 ohm	—

TUBE TINKER

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

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