



ELECTRONIC TUBE REFERENCE

4041

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Traveling-wave microwave amplifier providing broadband RF gain through interaction between an electron beam and a slow-wave structure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 700 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave	
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	2000 V
MAXIMUM CATHODE CURRENT	15 mA
8-12 GHz periodic-permanent-magnet TWT.	

Periodic-permanent-magnet traveling-wave tube for 8 to 12 GHz RF power amplification.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	700 mA	—
Small-signal / rated gain	34 dB	—
Saturated power output	1.5 W	—
Maximum collector voltage	3000 V	—
Maximum helix voltage	2950 V	—
Maximum grid No.2 voltage	2000 V	—
Maximum collector current	15 mA	—
Minimum cathode heating time	3 min	BeforeHighVoltage

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range minimum	8 GHz	—
Frequency range maximum	12 GHz	—
Cold insertion loss	60 dB	—

TUBE TINKER

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

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