



ELECTRONIC TUBE REFERENCE

D2013

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Rugged continuous-wave traveling-wave amplifier covering approximately 8–9.6 GHz, using a helix slow-wave structure and providing about 5 W output with at least 33 dB gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave

No fixed ratings recorded.

Applicable promoted fields mapped semantically from the printed ratings; device-specific electrical limits and operating conditions are preserved densely in TUBE_SECTION_PARAMETER.

Rugged 5-watt CW traveling-wave amplifier, 8.0–9.6 GHz, with helix slow-wave structure.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	8000–9600 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-Electrode Capacitance	10 pF	—
Gun-Elements-to-Shell Capacitance	4.8 pF	—
Anode Voltage Maximum	3400 V	—
Shell Current Maximum	3 mA	—
Collector Voltage Maximum	3500 V	—
Collector Dissipation Maximum	200 W	—
Control Electrode Voltage Maximum	-250 V	—
Typical Anode Voltage	3200 V	—
Typical Power Output	5 W	—
Gain Minimum	33 dB	—