



ELECTRONIC TUBE REFERENCE

D2014

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Rugged 8–9.6 GHz pulsed traveling-wave power amplifier with control grid, capable of approximately 1.8 kW peak output and about 33 dB gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 5.2 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 1-kilowatt pulsed traveling-wave amplifier, 8.0–9.6 GHz, with control grid.

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-Grid Capacitance	13 pF	—
Anode Voltage Maximum	12000 V	—
Shell Current Maximum	1.5 A	—
Collector Dissipation Maximum	18 W	—
RF Input Power Maximum	10 W	—
RF Output Power Maximum	10 W	—
Duty Cycle Maximum	0.005	—
Pulse Width Maximum	10 us	—
Cathode Current Maximum	3 A	—
Grid Voltage Negative Maximum	-300 V	—
Grid Voltage Positive Maximum	450 V	—
Grid Current Maximum	27 A	—
Typical Frequency	9000 MHz	—
Typical Power Output	1.8 kW	—
Gain Minimum	33 dB	—