



ELECTRONIC TUBE REFERENCE

D2009

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Pulsed traveling-wave amplifier covering approximately 3.95–8 GHz, with integral solenoid and control grid, roughly 35 dB gain, and multiwatt peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2.5 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.

Pulse traveling-wave amplifier tube, 3.95–8.0 GHz, with integral solenoid and 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	3950–8000 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gain	33 dB	—
Peak Power Output	2 W	—
Grid-All-Electrodes Capacitance	25 pF	—
Shell/Cathode Voltage Maximum	-2500 V	—
Peak Cathode Current Maximum	65 mA	—
Beam-On Duty Cycle Maximum	0.04	—
RF Input Power Maximum	1 W	—
Typical Frequency	4500 MHz	—
Typical Cathode Voltage	2350 V	—
Typical Peak Cathode Current	55 mA	—
Typical Peak Power Output	4 W	—
Typical Gain	35 dB	—

TUBE TINKER

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and their source documents.

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