

ELECTRONIC TUBE REFERENCE

TH3529

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Traveling-wave microwave amplifier for broadband communications, radar, satellite, or other high-frequency RF amplification.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1	TravelingWave
No fixed ratings recorded.	

High-gain long-life 12-GHz TWT for communications satellites.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Thomson CSF

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

1972 THOMSON CSF

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	11.7-12.2 GHz	—
RF Output Power	>20 W	—
Gain	>=55 dB	—
Saturation Gain Minimum	55 dB	—
Small-Signal Gain Minimum	60 dB	—
Overall Efficiency Typical	30 percent	—
Useful Cathode Life	200000 h	—
MTTF Minimum	500000 h	60 percent confidence