

ELECTRONIC TUBE REFERENCE

TH3523

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	5.5 V / 650 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	4200 V
MAXIMUM CATHODE CURRENT	50 mA

High-gain 14-GHz traveling-wave tube.

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	14-14.5 GHz	—
Heater Voltage	5.5 V	—
Heater Current	650 mA	—
RF Output Power	≥ 2 W	—
Gain	55-61 dB	—
Anode Voltage	1300 $\pm$ 300 V	—
Helix Voltage	3950 $\pm$ 150 V	—
Collector Voltage	1500 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Helix/Beam/Anode Voltage	4200 V	—
Cathode/Beam Current	50 mA	—
Warm-up Time	3 min	—
Collector Dissipation Maximum	130 W	—