

ELECTRONIC TUBE REFERENCE

TH3543

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Long-life low-noise C-band traveling-wave amplifier for advanced line-of-sight microwave links, combining low-noise operation with watt-level RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.5 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	2800 V
MAXIMUM CATHODE CURRENT	40 mA

Long-life low-noise C-band TWT for advanced line-of-sight microwave links.

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	5.925-6.425 GHz	—
Heater Voltage	5.5 V	—
Heater Current	0.5-0.7 A	—
RF Output Power	11.2 W	—
Gain	40.5 dBm output dB	—
Helix Voltage	2.5 kV	—
Collector Voltage	1.2 kV	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Helix/Beam/Anode Voltage	2800 V	—
Cathode/Beam Current	40 mA	—
Warm-up Time	3 min	—
Collector Dissipation Maximum	80 W	—