

ELECTRONIC TUBE REFERENCE

TH3522

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

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	3200 V
MAXIMUM CATHODE CURRENT	55 mA

Conduction-cooled C-band TWT for microwave radio 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	5.9-7.2 GHz	—
Heater Voltage	6.3 V	—
Heater Current	0.3-0.6 A	—
RF Output Power	>7 W	—
Gain	>=30 dB	—
Anode Voltage	0.6-1.2 kV	—
Helix Voltage	2.7-3.2 kV	—
Collector Voltage	1.3-1.55 kV	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Helix/Beam/Anode Voltage	3200 V	—
Cathode/Beam Current	55 mA	—
Warm-up Time	3 min	—
Typical Output Power	9.2 W	—