

ELECTRONIC TUBE REFERENCE

TOP1401

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

C-band PPM-focused traveling-wave power amplifier for satellite earth stations, providing approximately 25 W output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM CATHODE CURRENT	56 mA
Traveling-wave electron-beam device; helix, anode, collector and beam values are preserved in parameters.	

The Thomson-CSF TOP1401 is a c-band 25 w ppm-focused traveling-wave tube for satellite earth stations.

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	6.3 V	—
Heater current	1 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rated/minimum output power	25 W	—
Gain at rated/saturated output	35 dB	—
Helix voltage	3.6–3.95 kV	—
Helix current	0–5 mA	—
Anode voltage	0–1.8 kV	—
Anode current	0–2 mA	—
Collector voltage	2.3–2.4 kV	—
Cathode current	45–56 mA	—
Collector dissipation	160 W	—