



ELECTRONIC TUBE REFERENCE

TOP1304

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

High-power pulsed S-band traveling-wave amplifier for modern radar systems, producing roughly 170 kW peak RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8.5 V / 1.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave	
MAXIMUM CATHODE CURRENT	15 mA
<i>Traveling-wave electron-beam device; helix, anode, collector and beam values are preserved in parameters.</i>	

The Thomson-CSF TOP1304 is a high-power pulsed s-band traveling-wave tube for modern radar systems.

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	2.85–3.15 GHz	—
Heater voltage	8.5 V	—
Heater current	1.25 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rated/minimum output power	170000 W	—
Gain at rated/saturated output	30 dB	—
Helix voltage	20–30 kV	—
Helix current	0–1.5 mA	—
Anode voltage	20–30 kV	—
Anode current	0–15 mA	—
Collector voltage	20–30 kV	—
Cathode current	0–15 mA	—
Collector dissipation	25000 W	—