



ELECTRONIC TUBE REFERENCE

TOP117

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Water-cooled high-power X-band traveling-wave amplifier for demanding microwave service, providing approximately 1 kW RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7 V / 4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave	
MAXIMUM CATHODE CURRENT	850 mA
<i>Traveling-wave electron-beam device; helix, anode, collector and beam values are preserved in parameters.</i>	

The Thomson-CSF TOP117 is a water-cooled high-power x-band traveling-wave amplifier with about 1 kw output.

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	8–12 GHz	—
Heater voltage	7 V	—
Heater current	4 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rated/minimum output power	1000 W	—
Gain at rated/saturated output	35 dB	—
Helix voltage	10.4–11.3 kV	—
Helix current	10–20 mA	—
Anode voltage	7–8.5 kV	—
Anode current	0.1–3 mA	—
Collector voltage	10.4–11.4 kV	—
Cathode current	760–850 mA	—
Collector dissipation	9000 W	—