

ELECTRONIC TUBE REFERENCE

TOP1091

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	4.9 V / 230 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM CATHODE CURRENT	30 mA

The TOP1091 is a compact broadband traveling-wave amplifier covering 3 to 6 GHz with more than 40 dB saturation gain and at least 3 W saturated output power.

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	3.0-6.0 GHz	—
Minimum Saturated Output Power	3 W	—
Saturation Gain Minimum	40 dB	—
Typical Output Power	4.2 W	—
Drive Power	0.1 mW	—
Helix Voltage Adjustment Range	±200 V	—
Helix Current Maximum	3 mA	—
Anode Voltage Adjustment Range	0 to +200 V	—
Anode Current Maximum	2 mA	—
Collector Voltage Adjustment Range	±200 V	—
Cathode Current Maximum	30 mA	—