

Traveling-wave microwave amplifier for broadband communications, radar, satellite, or other high-frequency RF amplification.

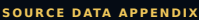
GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	TravelingWave
No fixed ratings recorded.	
Published ratings/characteristics audited; detailed numeric data retained in parameter table.	

The TH9131 is a traveling-wave-tube power amplifier designed for continuous-wave microwave operation and broadband high-frequency amplification.



SOURCE PDF

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1972 THOMSON CSF

Section 1 · TravelingWave

TUBE TINKER · TH9131

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage given on the Test Data Sheet should be applied for at least	5 V	Heater voltage given on the Test Data Sheet should be applied for at 5 mi=-
minutes before applying beam voltage. Heater surge current should never exceed	2 V	minutes before applying beam voltage. Heater surge current should never exceed 2 amperes.
An overvoltage relay should be provided to limit the beam voltage to	2.5 V	An overvoltage relay should be provided to limit the beam voltage to kV dc.
Grid VOLTAGEEesesseosvroessassssscnsvscsasssossnssssssssasnsoscnsoss +	100	Grid VOLTAGEEesesseosvroessassssscnsvscsasssossnssssssssasnsoscns + 100 v
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© + COLLECTOR POWER (	160 W	© + COLLECTOR POWER (160 W) f" + v
room temperature + INPUT TEMPERATURE (	20	room temperature + INPUT TEMPERATURE (20°C) {
TVL : COLLECTOR POWER (	230 W	TVL : COLLECTOR POWER (230 W) -
Published value	1 A	1 - Apply focus coils current.
Published value	4 V	4 - Apply heater voltage (the exact value is given on the Test Performance Sheet
Published value	3 V	3 - Apply beam voltage, step by step, (at least for the first time).
Published value	4 V	4 - Apply voltage to the grid, and at the same time :
Published value	6 W	6 - Apply RF drive power.
RF	1	RF Input RF output
Published value	3 A	3ias Overcurrent

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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