



ELECTRONIC TUBE REFERENCE

TH318

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled Thomson-CSF planar ceramic-metal power triode for RF oscillator, amplifier, and pulse service. High transconductance, substantial plate dissipation, and multi-kilovolt capability support demanding professional RF applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 5.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.045 S
AMPLIFICATION FACTOR	90
MAXIMUM PLATE VOLTAGE	6200 V
MAXIMUM PLATE DISSIPATION	700 W
MAXIMUM GRID DISSIPATION	3 W
<i>Promoted from printed general-characteristics and maximum-ratings tables.</i>	

The Thomson-CSF TH318 is a forced-air-cooled planar ceramic/metal triode for rf oscillator/amplifier and pulse service.

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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	90	—
Transconductance	45000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	6200 V	—
Maximum anode dissipation	700 W	—
Maximum grid dissipation	3 W	—
Maximum operating frequency	1500 MHz	—
Pulse repetition rate	1500 Hz	—
Pulse width	1.5 μ s	—
Typical frequency minimum	1250 MHz	—
Typical frequency maximum	1350 MHz	—
Peak anode voltage	6000 V	—
Peak anode current	11 A	—
Peak grid current	4 A	—
Peak output power	40000 W	—
Average output power	90 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode/input capacitance	8.5 pF	—
Grid-cathode/output capacitance	15 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-anode capacitance	0.1 pF	—

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