



ELECTRONIC TUBE REFERENCE

TH312

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled Thomson-CSF coaxial ceramic-metal power triode for highly linear television-translator amplification. High transconductance and roughly kilowatt-class plate dissipation support professional television RF power with strong linearity.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.5 V / 35 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.04 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	1200 W
Promoted from printed general-characteristics and maximum-ratings tables.	

The Thomson-CSF TH312 is a forced-air-cooled coaxial ceramic/metal triode for highly linear television-translator amplification.

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	65	—
Transconductance	40000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	3000 V	—
Maximum anode dissipation	1200 W	—
Maximum operating frequency	1000 MHz	—
Typical frequency	780 MHz	—
Typical anode voltage	2800 V	—
Typical anode current	380 mA	—
Gain	13 dB	—
Video output power	200 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode/input capacitance	8.5 pF	—
Grid-cathode/output capacitance	27 pF	—
Cathode-anode capacitance	0.15 pF	—

TUBE TINKER

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

