

ELECTRONIC TUBE REFERENCE

TH297

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Forced-air-cooled ceramic-metal coaxial transmitting tetrode designed for television, FM, and linear RF service. Its professional construction supports high-power broadband output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.2 V / 80 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	4500 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM SCREEN DISSIPATION	20 W
MAXIMUM GRID DISSIPATION	10 W
Promoted from printed general-characteristics and maximum-ratings tables.	

The Thomson-CSF TH297 is a forced-air-cooled ceramic/metal coaxial transmitting tetrode for television, fm and linear rf 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 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	20	—
Transconductance	20000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	4500 V	—
Maximum screen-grid voltage	800 V	—
Maximum anode dissipation	1500 W	—
Maximum screen-grid dissipation	20 W	—
Maximum grid dissipation	10 W	—
Maximum operating frequency	1200 MHz	—
Maximum anode dissipation	1500 W	—
Maximum screen dissipation	20 W	—
Maximum control-grid dissipation	10 W	—
Maximum frequency	1200 MHz	—
Typical FM-service anode voltage	4500 V	—
Typical FM-service anode current	1.2 A	—
Typical FM-service output power	1200 W	—
Typical linear-amplifier anode voltage	6000 V	—
Typical screen voltage	800 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical heater voltage	3 V	—
Typical gain	13 dB	—