

ELECTRONIC TUBE REFERENCE

TH298

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Forced-air-cooled ceramic-metal coaxial transmitting tetrode for continuous-wave oscillator, grounded-grid RF, television, and FM service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.2 V / 50 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.04 S
AMPLIFICATION FACTOR	7
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM SCREEN DISSIPATION	60 W
MAXIMUM GRID DISSIPATION	40 W
Promoted from printed general-characteristics and maximum-ratings tables.	

The Thomson-CSF TH298 is a forced-air-cooled ceramic/metal coaxial transmitting tetrode for cw oscillator, grounded-grid rf and television/fm 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	7	—
Transconductance	40000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	5000 V	—
Maximum screen-grid voltage	800 V	—
Maximum anode dissipation	5000 W	—
Maximum screen-grid dissipation	60 W	—
Maximum grid dissipation	40 W	—
Maximum operating frequency	300 MHz	—
Typical frequency	260 MHz	—
Typical anode voltage	3200 V	—
Typical screen voltage	600 V	—
Typical anode current	1.2 A	—
Typical drive power	90 W	—
Typical output power	2000 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode/input capacitance	40 pF	—
Grid-cathode/output capacitance	11 pF	—
Cathode-anode capacitance	0.04 pF	—