



ELECTRONIC TUBE REFERENCE

TH491H

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Hypervapotron vapor/high-temperature-water-cooled transmitting tetrode designed for UHF television service. Its advanced cooling system supports very high broadcast power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.2 V / 180 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.1 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	30000 W
MAXIMUM SCREEN DISSIPATION	200 W
MAXIMUM GRID DISSIPATION	100 W
MAXIMUM CATHODE CURRENT	40 A
<i>Promoted maximum ratings/characteristics mapped semantically from the printed ratings tables; additional published electrical data are preserved in TUBE_SECTION_PARAMETER.</i>	

Hypervapotron vapor/high-temperature-water-cooled transmitting tetrode for UHF television 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	110 pF	—
Output Capacitance	23 pF	—
Cathode-Anode Capacitance Maximum	0.1 pF	—
DC Anode Current Maximum	10 A	—
Frequency Maximum	870 MHz	—
Typical Frequency	700 MHz	—
Typical Average Anode Current	7.3 A	—
Typical Grid 2 Current	80 mA	—