

ELECTRONIC TUBE REFERENCE

TH537

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Hyper-Vapotron high-power transmitting tetrode with integral boiler-condenser and more than 300 kW RF output capability. Designed for extremely high-power professional transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	20 V / 480 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.3 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM SCREEN VOLTAGE	1200 V
MAXIMUM PLATE DISSIPATION	300000 W
MAXIMUM SCREEN DISSIPATION	5000 W
MAXIMUM GRID DISSIPATION	2000 W
MAXIMUM CATHODE CURRENT	400 A
Promoted maximum ratings/characteristics mapped semantically from the printed ratings tables; additional published electrical data are preserved in TUBE_SECTION_PARAMETER.	

Hyper-Vapotron high-power transmitting tetrode with integral boiler-condenser; over 300 kW RF output.

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
Filament Starting Current Maximum	1300 A	—
Cathode Current Test	250 A	—
Grid1-Cathode Capacitance	300 pF	—
Anode-Cathode Capacitance	1 pF	—
Grid2-Anode Capacitance	72 pF	—
Grid1-Grid2 Capacitance	500 pF	—
Frequency Maximum	30 MHz	—
Typical Anode Voltage	11000 V	—
Typical Anode Current	36 A	—
Typical Output Power	300 kW	—

TUBE TINKER

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and their source documents.

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