



ELECTRONIC TUBE REFERENCE

TH558

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Hyper-Vapotron very-high-power ceramic-metal transmitting tetrode with approximately 500 kW anode-dissipation capability. Intended for exceptionally high-power transmitter service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	23 V / 520 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.4 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM SCREEN VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	500000 W
MAXIMUM SCREEN DISSIPATION	8000 W
MAXIMUM GRID DISSIPATION	3000 W
MAXIMUM CATHODE CURRENT	600 A
<i>Promoted maximum ratings/characteristics mapped semantically from the printed ratings tables; additional published electrical data are preserved in TUBE_SECTION_PARAMETER.</i>	

Hyper-Vapotron very-high-power ceramic-metal transmitting tetrode with 500 kW anode-dissipation

capability.

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	1500 A	—
Grid1-Cathode Capacitance	430 pF	—
Anode-Cathode Capacitance	1 pF	—
Grid2-Anode Capacitance	105 pF	—
Grid1-Grid2 Capacitance	730 pF	—
Frequency Maximum	10 MHz	—
Typical Anode Voltage	12000 V	—
Typical Anode Current	54 A	—
Anode Cooling Water Flow Minimum	180 L/min	—

TUBE TINKER

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and their source documents.

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