



## ELECTRONIC TUBE REFERENCE

## TH555

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

CONSOLIDATED TECHNICAL  
DATA

**1 SECTION**  
CONSTRUCTION  
**TETRODE**

Hyper-Vapotron high-power ceramic-metal transmitting tetrode with integral boiler and approximately 200 kW output capability. Designed for very-high-power professional RF service.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 16 V / 320 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                    |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| SECTION1 Tetrode                                                                                                                                                                   |          |
| TRANSCONDUCTANCE                                                                                                                                                                   | 0.25 S   |
| AMPLIFICATION FACTOR                                                                                                                                                               | 4.5      |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                              | 12000 V  |
| MAXIMUM SCREEN VOLTAGE                                                                                                                                                             | 1200 V   |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                          | 250000 W |
| MAXIMUM SCREEN DISSIPATION                                                                                                                                                         | 4000 W   |
| MAXIMUM GRID DISSIPATION                                                                                                                                                           | 1500 W   |
| MAXIMUM CATHODE CURRENT                                                                                                                                                            | 300 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 high-power ceramic-metal transmitting tetrode with integral boiler; about 200 kW 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 | 900 A           | —                |
| Grid1-Cathode Capacitance         | 225 pF          | —                |
| Anode-Cathode Capacitance         | 0.75 pF         | —                |
| Grid2-Anode Capacitance           | 55 pF           | —                |
| Grid1-Grid2 Capacitance           | 380 pF          | —                |
| Frequency Maximum                 | 30 MHz          | —                |
| Typical Anode Voltage             | 11000 V         | —                |
| Typical Anode Current             | 27 A            | —                |
| Typical Output Power              | 225 kW          | —                |