



ELECTRONIC TUBE REFERENCE

TH504

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Glass-envelope Vapotron very-high-power transmitting triode for demanding RF power service. Approximately 150 kW plate dissipation, 15 kV capability, and very high transconductance support exceptionally large transmitter applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	17.5 V / 310 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.13 S
AMPLIFICATION FACTOR	80
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	150000 W
MAXIMUM GRID DISSIPATION	3500 W
MAXIMUM CATHODE CURRENT	180 A
Promoted maximum ratings/characteristics mapped semantically from the printed ratings tables; additional published electrical data are preserved in TUBE_SECTION_PARAMETER.	

Glass-envelope Vapotron high-power transmitting triode; shared TH504/TH504C electrical specification.



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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Starting Current Maximum	1000 A	—
Cathode-Grid Capacitance	230 pF	—
Grid-Anode Capacitance	100 pF	—
Anode-Cathode Capacitance	2 pF	—
Frequency Maximum	30 MHz	—
Typical Anode Voltage	12000 V	—
Typical Output Power	250 kW	—
Typical Anode Current	26.7 A	—

TUBE TINKER

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and their source documents.

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