



ELECTRONIC TUBE REFERENCE

TH54

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Ceramic-metal industrial power triode designed principally for Class C high-power oscillator service in dielectric-heating equipment. Approximately 4 kW plate dissipation and 6 kV capability provide rugged industrial RF generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 51.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	22
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM PLATE DISSIPATION	4000 W
MAXIMUM GRID DISSIPATION	150 W
MAXIMUM CATHODE CURRENT	2.5 A
Section values promoted from published characteristics and maximum ratings.	

High-performance ceramic/metal industrial power triode principally for Class C high-power oscillator service in dielectric-heating equipment.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

199X Svetlana

Published test conditions and operating points. Values on this page are preserved as reported by this source.

199X SVETLANA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) 7.50 ±	0.37 V	SourcePage1-2
Current	51.5 A	SourcePage1-2
Maximum frequency	110 MHz	SourcePage1-2
Input	35 pF	SourcePage1-2
Output	0.9 pF	SourcePage1-2
Feedback	20 pF	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC plate voltage	6000 V	SourcePage1-2
Maximum-signal DC plate current	2.5 A	SourcePage1-2
Plate Dissipation	4000 W	SourcePage1-2
Grid Dissipation	150 W	SourcePage1-2
DC grid voltage	-1000 V	SourcePage1-2
Typical Operation, Class C (Frequencies to	30 MHz	TypicalOperation
DC plate voltage 4,000 5,000	6000 V	TypicalOperation
DC grid voltage -300 -450	-500 V	TypicalOperation
Peak grid voltage 580 750	765 V	TypicalOperation
Plate current 2,500 2,500	2.08 A	TypicalOperation
DC grid current -245 -265	-80 mA	TypicalOperation
Grid dissipation 68 78	46 W	TypicalOperation
Power output 7,500 10,000	10000 W	TypicalOperation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate dissipation 2,500 2,500	2500 W	TypicalOperation

TUBE TINKER

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