



ELECTRONIC TUBE REFERENCE

HT322

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

RFT high-frequency triode intended for amplification, oscillation, measurement, or microwave-frequency electronic service, with published heater and electrical characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 800 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	90
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	80 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	125 mA
Published ratings and characteristics promoted where clearly stated. RFT HT322 indirectly heated, air-cooled metal-ceramic microwave power triode intended primarily for oscillators up to about 2.75 GHz. Typical static characteristics at plate 400 V and 15 mA: gm 10 mA/V and amplification factor 90. Continuous operating maximum plate voltage 1000 V, plate dissipation 80 W, grid dissipation 2 W and cathode current 125 mA. The 2000 V anode limit is pulse-only (5 microseconds). For continuous-wave service, reduce heater from nominal 12.6 V to 12.1 V at 400–1000 MHz, 11.5 V at 1–2 GHz, and 10.8 V above 2 GHz. Forced-air cooling 60 L/min specified under rated conditions.	

A triode intended for amplification, oscillation, measurement, or microwave-frequency service, with source-published heater and electrical characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
den Einsatz in Oszillatoren bis zu Frequenzen von etwa	2.75 GHz	den Einsatz in Oszillatoren bis zu Frequenzen von etwa 2,75 GHz.
Bei Frequenzen oberhalb	400 MHz	Bei Frequenzen oberhalb 400 MHz

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I ₉	800 mA	I ₉ 0,8 A N
Tr	22 min	Tr 22 min
reduziert werden. Bei maximaler N]	8 S	reduziert werden. Bei maximaler N] [8S] ®]
PublishedValue	1000 MHz	. . 1000 MHz 12,1 v
PublishedValue	2000 MHz	. .2000 MHz 11,5 V
>	2000 MHz	> 2000 MHz 10,8 v
U,	400 V	U, 400 V
1,	15 mA	1, 15 mA
S	10 mA	S 10 mA/V
£ 2,31 0,79 2,31	0.79 GHz	£ 2,31 0,79 2,31 0,79 GHz Uap (tp = 5 ps) max. 2000
U, 500 500 800	800 V	U, 500 500 800 800 V Ua mod max., %600
I 100 100 100	100 mA	I 100 100 100 100 mA (100% moduliert)
I, 22 22 15 15 m *g8 max,	30 V	I, 22 22 15 15 m *g8 max, 30 V
Pout 4# 12 8	20 W	Pout 4# 12 8 20 W e max. 400 V
Pa max	80 W	Pa max. 80 W
Kapazitäten Ik max	125 mA	Kapazitäten Ik max. 125 mA