

ELECTRONIC TUBE REFERENCE

HT611

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	6 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.017 S
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM GRID DISSIPATION	0.7 W
MAXIMUM CATHODE CURRENT	72 mA
Published ratings and characteristics promoted where clearly stated. RFT HT611 metal-ceramic microwave power triode with integral heatsink, for amplifiers, multipliers and oscillators to approximately 6 GHz. Indirectly heated metal-capillary cathode, nominal 6 V at 0.9 A. Maximum plate voltage 600 V, plate dissipation 25 W, cathode current 72 mA and grid dissipation 0.7 W. Typical gm 17 mA/V at plate 400 V and current 60 mA. Heater voltage reduction is recommended for prolonged low-cathode-current dynamic operation.	

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
Frequenzen von 6& GHz bei der HT 611 bzw	7 GHz	Frequenzen von 6& GHz bei der HT 611 bzw. 7 GHz bei der HT 711.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heizstrom If	900 mA	Heizstrom If 0,9 A
Anheizdauer N ca,	2 min	Anheizdauer N ca, 2 min
Ik<	70 mA	Ik<70 mA erfolgt.
Ua	400 V	Ua 400 V Ue MAX. 600 V
Ia 60 mA Pa maxX	25 W	Ia 60 mA Pa maxX. 25 W
Ugb	20 V	Ugb 20 V U max. 50 V
Rk	380 Ohm	Rk 380 Ohm --Ug min. O Y
s	17 mA	s 17 mA/V I8 maxX, 10 mA
} 60 Pin maX,	0.7 W	} 60 Pin maX, 0,7 W
Ix maX	72 mA	Ix maX. 72 mA
Betriebswerte '8'mk max	180 °c	Betriebswerte '8'mk max. 180 °c
f	6 GHz	f 6 GHz
U,	400 V	U, 400 V cgk
U	20 v	U 20 v Ca * 0,02 pF
I8	7 mA	I8 7 mA
Pout	1.8 W	Pout 1,8 W
PublishedValue	20 °C	20 °C bei einem Luftdruck von 760 Torr erforderlich,.