

T2000-1
Radiation cooled triode

6 kW

- Output power:
6 kW in CW mode
- Anode voltage: 6 kV
- Anode dissipation:
2 kW max.
- Frequency up to 50 MHz





T 2000-1

The T 2000-1 is a RF power triode glass construction with a ruggedly constructed graphite anode. It is used as class C RF oscillator for industrial applications.

For operation in pulse mode, the parameters depends on each equipment characteristics. Contact us for specific information. This product is designed, developed and manufactured at an ISO 9002 registered production site.

Electrical characteristics

Cathode	thoriated tungsten		
Heating	direct		
Filament voltage (+ 5%, - 10%)	7.5	V	
Filament current	50	A	
Interelectrode capacitances:			
• grid-anode	20	pF	
• grid-cathode	26	pF	
• cathode-anode	1.1	pF	
Amplification factor	20		
Transconductance (Va: 2 kV, Ia: 1 A)	13	mA/V	

Mechanical characteristics

Operating position	vertical		
Weight	1.7	kg	approx.
Dimensions	see outline drawing		

Maximum ratings

Frequency	50	MHz	
Anode voltage	6	kV	
Peak cathode current	11	A	
Anode dissipation	2	kW	
Grid dissipation	220	W	
Grid voltage	- 1 000	V	

Cooling

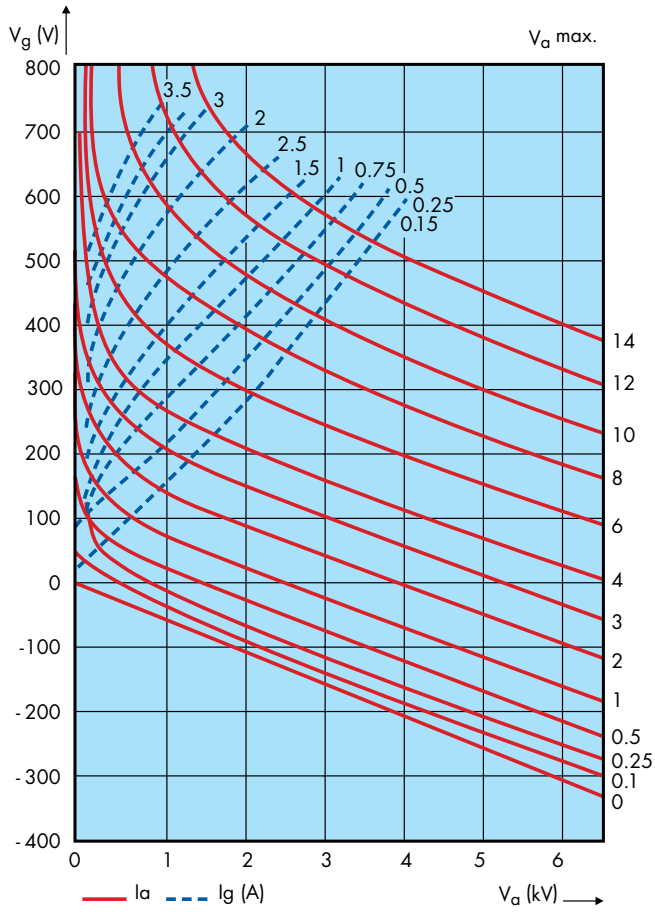
Cooling method	radiation / low velocity air flow		
Temperature of the bulb	300	°C	max.
Temperature of the glass-metal seals	160	°C	max.

Typical operation

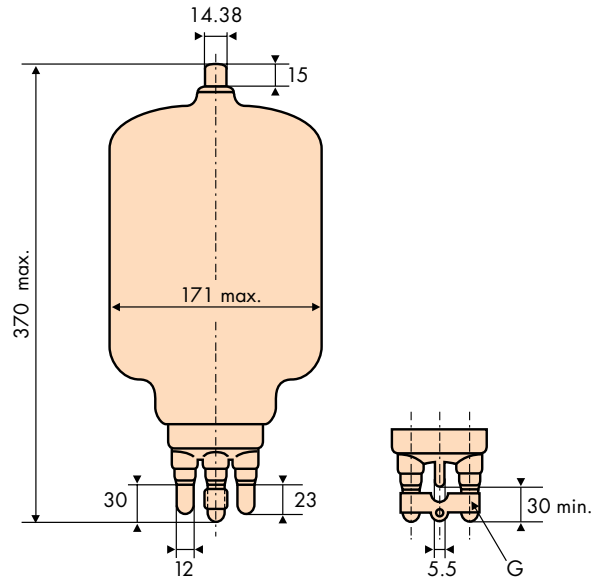
Examples	RF oscillator Class C, up to 50 MHz			
	1	2	3	
Anode voltage	6	5	4	kV
Anode current	1.35	1.50	1.75	A
Anode input power	8.1	7.5	7	kW
Anode output power (1)	6.5	5.7	5	kW
Anode dissipation	1.6	1.7	2	kW
Grid current	350	350	400	mA
Grid dissipation	155	160	215	W
Grid resistance	2.2	2.2	1.8	kΩ
Efficiency	74	71	65	%

(1) Circuit losses not included.

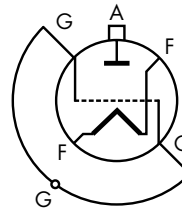
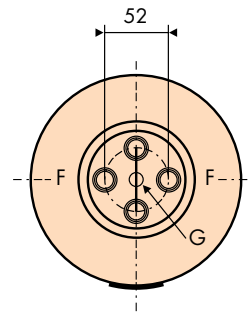
Constant current characteristics



Outline drawing (dimensions in mm)



Bottom view (dimensions in mm)



Accessories

- Anode connector 100P1 NBT 400100P1
- Socket 205P1 NBT 400205P1



This document cannot be considered to be a contractual specification. The information given herein may be modified without notice due to product improvement or further development. Consult Thales Electron Devices before making use of this information for equipment design.

For further information, please contact:

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