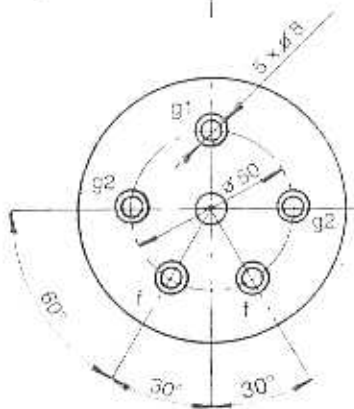
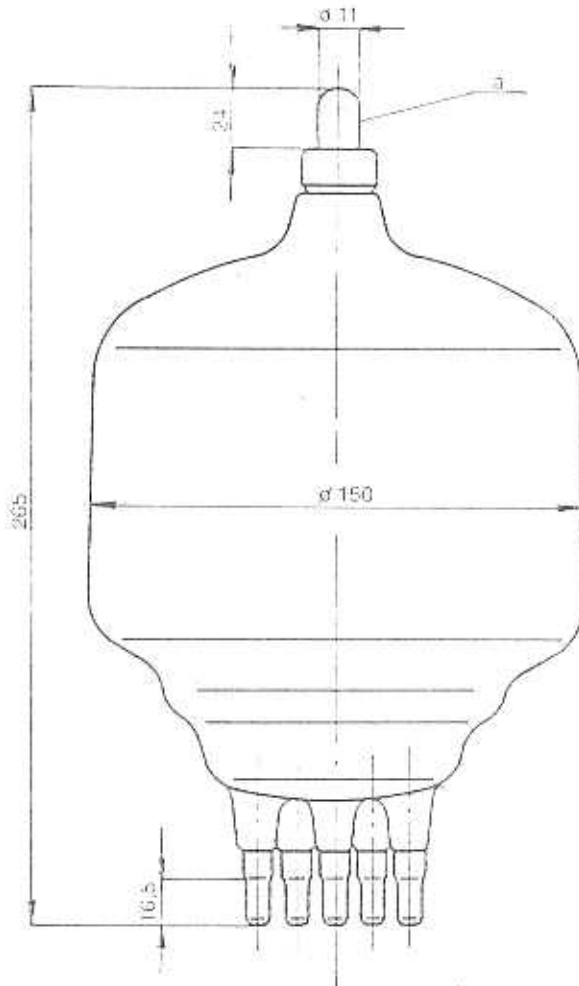




TESLA - ECIMEX a. s.



The RE 1000 F is a radiation-cooled power tetrode with glass envelope for frequencies up to 150 MHz.

The maximum anode dissipation rating is 1000 W.

The RE 1000 F is primarily intended for use as an A.F. or B.F. power amplifier or an oscillator.

**RE 1000 F**

# RE 1000 F

## HEATING DATA

Filament voltage	$V_f$	7,5	V
Filament current	$I_f$	28,5	A
Cathode	thoriated tungsten, direct heating		

For allowed tolerances and other limitations see the General part of the catalogue.

## MAXIMUM RATINGS

Anode voltage (f = 150 MHz)	$V_a$	3,5	kV
(up to 60 MHz)	$V_a$	6	kV
Screen grid voltage	$V_{g2}$	800	V
Control grid voltage	$V_{g1}$	-500	V
Anode mean current	$I_{am}$	0,7	A
Anode dissipation	$W_a$	1	kW
Screen grid dissipation	$W_{g2}$	110	W
Control grid dissipation	$W_{g1}$	25	W
Operating frequency	f	150	MHz

## GENERAL DATA

### Electrical

Interelectrode capacitances	$C_{k-g1}$	max. 26	pF
	$C_{a-g2}$	max. 10	pF
	$C_{a-g1}$	max. 0,8	pF
Transconductance (at $V_a = 3$ kV, $V_{g2} = 600$ V, $I_a = 300$ mA)	S	min. 5,2	mA/V
Amplification factor (at $V_a = 1,5$ kV, $I_a = 0,2$ A, $V_{g2} = 550$ V)	$\mu_{g2g1}$	6	
Emission current (at $V_a = V_{g2} = V_{g1} = 1000$ V)	$I_e$	7,5	A

### Mechanical

Mounting position	vertical		
Weight	approx.	0,75	kg

### Cooling

radiation / low velocity air flow

Ambient temperature	-15 to +40	°C
Air flow at maximum ratings	2	m <sup>3</sup> /min
Maximum temperature of envelope	170	°C
of electrode terminals	180	°C

The anode terminal must be provided with a heat dissipating connector, when the anode dissipation exceeds 500 W.

It is necessary to operate the tube inside a glass air chimney which concentrates the air flow.

For other limitations see the General part.

# CONSTANT CURRENT CHARACTERISTICS

