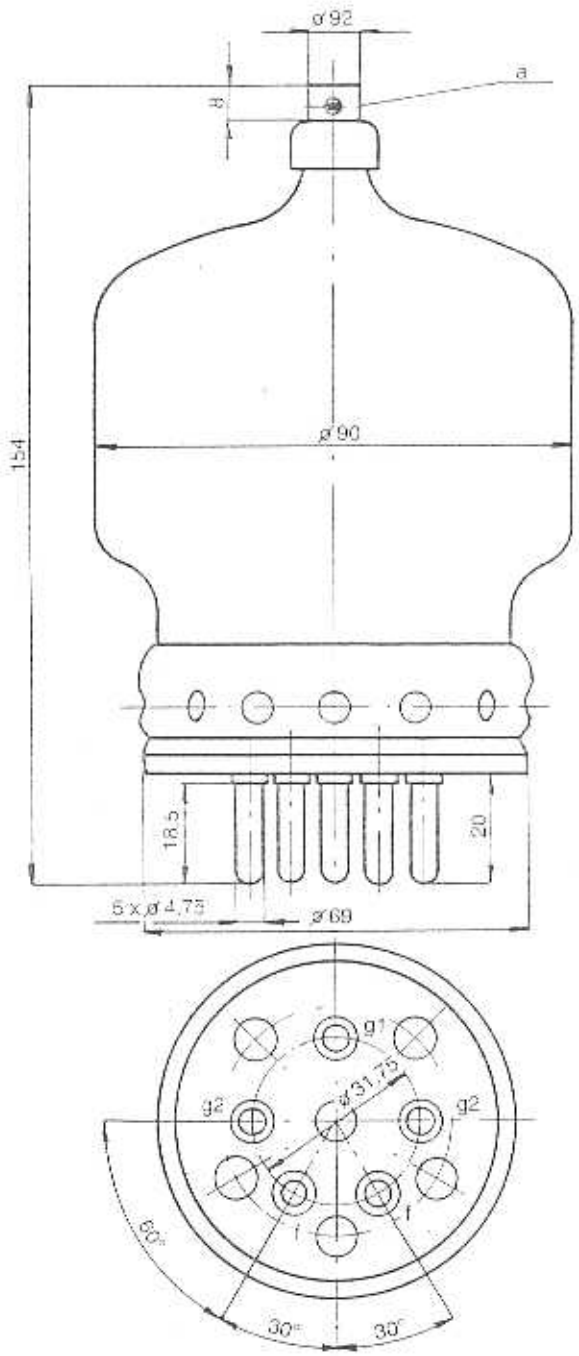
TESLA - ECIMEX a. s.



The RE 400 A is a radiation-ccoled power tetrode with glass envelope for frequencies up to 235 MHz.
The maximum anode dissipation rating is 400 W.
The RE 400 A is primarily intended for use as an A.F. or R.F. power amplifier in VHF TV, FM, or HF transmitters or an oscillator.

RE 400 A

RE 400 A

HEATING DATA

Filament voltage	V_f	5	V
Filament current	I_f	15	A
Cathode	thoriated tungsten, direct heating		

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

MAXIMUM RATINGS

Anode voltage (f = 235 MHz)	V_a	2,5	kV
(up to 120 MHz)	V_a	4	kV
Screen grid voltage	V_{g2}	600	V
Control grid voltage	V_{g1}	−500	V
Anode mean current	$I_{a/n}$	350	mA
Anode dissipation	W_a	400	W
Screen grid dissipation	W_{g2}	40	W
Control grid dissipation	W_{g1}	15	W
Operating frequency	f	235	MHz

GENERAL DATA

Electrical

Interelectrode capacitances	$C_{k/g1}$	5,7	pF
	$C_{a/g2}$	5,6	pF
	$C_{a/k}$	0,20	pF
Transconductance (at V_a = 2000 V, V_{g2} = 450 V, I_a = 200 mA)	S	min. 4,5	mA/V
Amplification factor (at V_a = 2 kV, I_a = 0,2 A, V_{g2} = 465 V)	$\mu_{g2/g1}$	5	
Emission current (at $V_a = V_{g2} = V_{g1}$ = 800 V)	I_e	2,5	A

Mechanical

Mounting position	vertical		
Weight	approx.	2,5	kg

Cooling

radiation / low velocity air flow

Ambient temperature	−15 to +45	°C
Air flow at maximum ratings	1	m^3/min
Maximum temperature of surface	170	°C

In cases when the maximum permissible temperature is likely to be exceeded, a low velocity air flow has to be directed onto the anode seal and the bottom of the envelope.
It is recommended to operate the tube inside a glass air chimney which concentrates the air flow.
For other limitations see the General part.

CONSTANT CURRENT CHARACTERISTICS