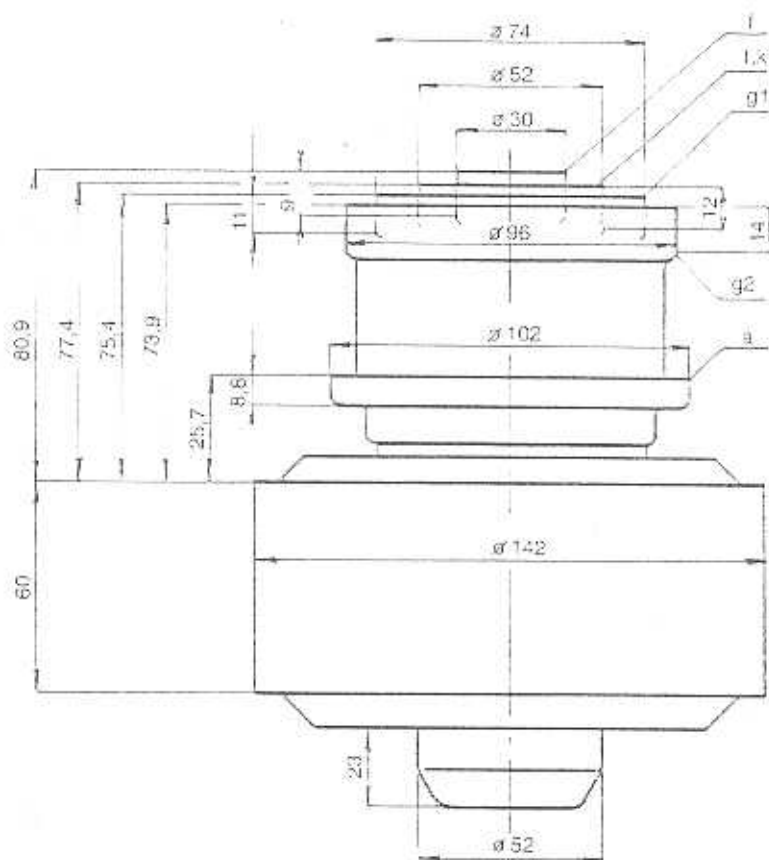




TESLA - ECIMEX a. s.



The RE 8 XM is a forced-air cooled, ceramic/metal power tetrode for frequencies up to 300 MHz, with coaxial arrangement of electrode terminals. The maximum anode dissipation rating is 8 kW. The RE 8 XM is primarily intended for applications in R. F. and TV transmitters.

RE 8 XM

RE 8 XM

HEATING DATA

Filament voltage	V_f	10	V
Filament current	I_f	90	A
Cathode	thoriated tungsten, direct heating, mesh type		

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

MAXIMUM RATINGS

Anode voltage	V_a	5	kV
Screen grid voltage	V_{g2}	1000	V
Cathode peak current	I_{kp}	35	A
Anode dissipation	W_a	8	kW
Screen grid dissipation	W_{g2}	250	W
Control grid dissipation	W_{g1}	50	W
Operating frequency	f	300	MHz

GENERAL DATA

Electrical

Interelectrode capacitances	$C_{k/g1}$	75	pF
	$C_{k/g2}$	5,5	pF
	$C_{a/g2}$	23	pF
	$C_{p1/g2}$	120	pF
	$C_{a/g1}^{*)}$	0,8	pF
	$C_{a/k}^{*)}$	0,08	pF

*) Measured with a shield disc (300 mm dia.) mounted on the screen grid terminal.

Transconductance (at $V_c = 2$ kV, $V_{g2} = 800$ V, $I_a = 3$ A)	S	67	mA/V
Amplification factor (at $V_a = 2$ kV, $I_a = 3$ A, $V_{g2} = 800$ V)	$\mu_{g2/g1}$	8	
Emission current (at $V_a = V_{g2} = V_{g1} = 300$ V)	I_e	35	A

Mechanical

Mounting position	vertical		
Weight	approx.	4,8	kg

Cooling

	forced air		
Inlet air temperature		-15 to +45	°C
Air flow at maximum ratings		8	m ³ /min
Pressure drop		1030	Pa
Maximum temperature of anode and the smallest electrode terminal		250	°C
of any other part		220	°C

For other limitations see the General part.

CONSTANT CURRENT CHARACTERISTICS

$V_{g_2} = 800V$

- $I_{g_1}(A)$
- $I_{g_2}(A)$
- $I_a(A)$

