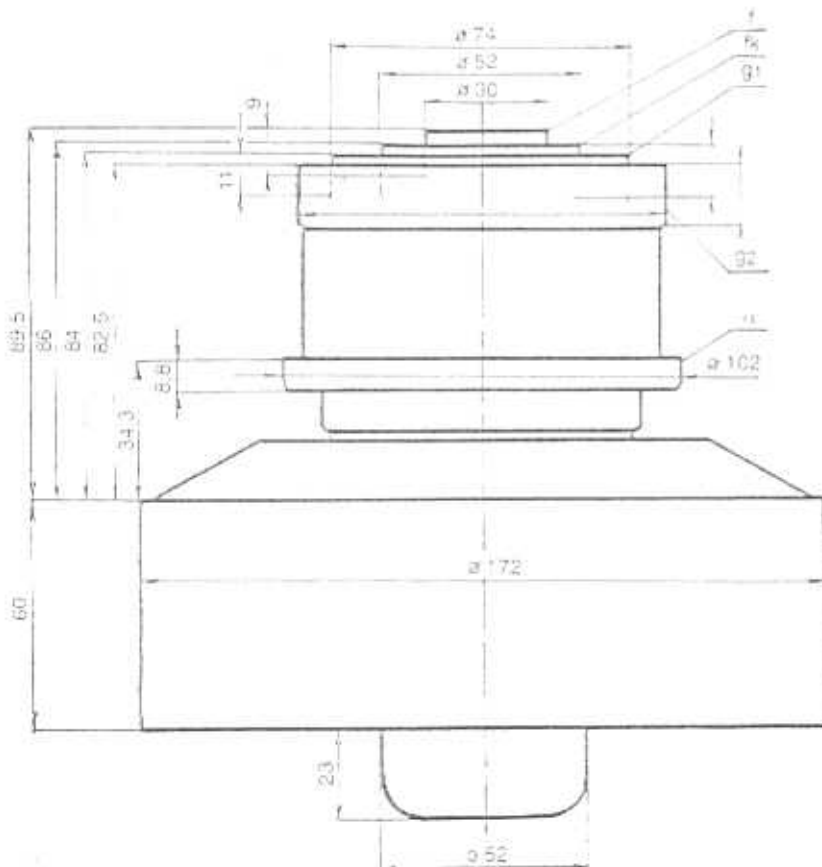




TESLA - ECIMEX a. s.



The RE 12 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 12 kW. The RE 12 XM is primarily intended for applications in radio and TV transmitters.

RE 12 XM

RE 12 XM

HEATING DATA

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

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_{cp}	35	A
Anode dissipation	W_a	12	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	$C_{a,g2}$	5,5	pF
$C_{a,g2}$	23	pF	$C_{g1,g2}$	120	pF
$C_{a,g1}^*)$	0,8	pF	$C_{ak}^*)$	0,08	pF

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

Transconductance (at $V_a = 2$ kV, $V_{g2} = 800$ V, $I_a = 3$ A)	S	67	mA / V
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Amplification factor (at $V_a = 2$ kV, $I_a = 3$ A, $V_{g2} = 800$ V)	μ_{g2g1}	8	
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Emission current (at $V_a = V_{g2} = V_{g1} = 300$ V)	I_e	35	A
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Mechanical

Mounting position	vertical		
Weight	approx.	6,7	kg

Cooling

Inlet air temperature	-15 to +45	°C	forced air
Air flow	12	m ³ /min.	
Pressure drop	870	Pa	
Maximum temperature of anode	250	°C	
of any other part	220	°C	

For other limitation see the General part.

CONSTANT CURRENT CHARACTERISTICS

$V_{G_2} = 800V$

--- $I_{G_1}(A)$
- - - $I_{G_2}(A)$
— $I_a(A)$

