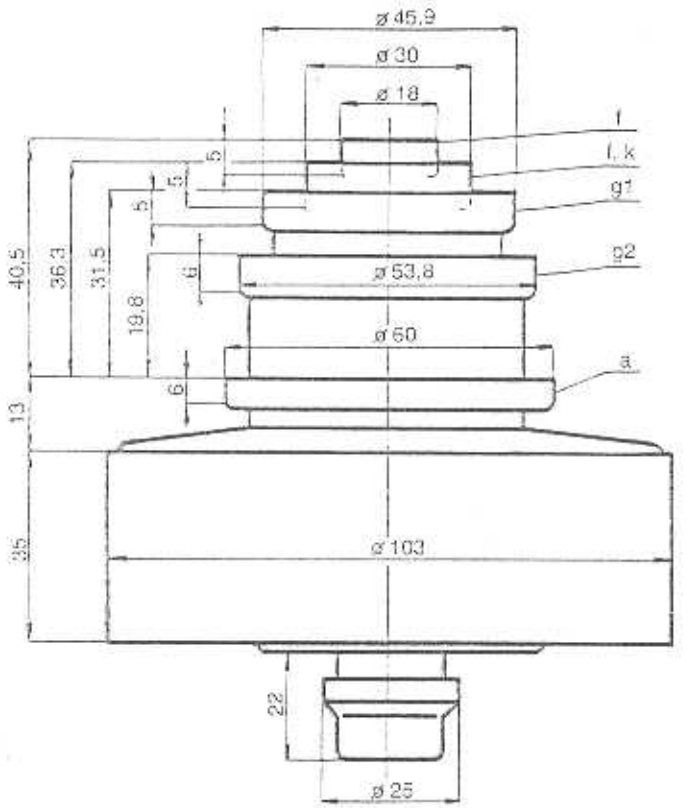
TESLA - ECIMEX a. s.



The RE 3 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 3 kW.
The RE 3 XM is primarily intended for applications in radio and TV transmitters.

RE 3 XM

RE 3 XM

HEATING DATA

Heating voltage	V_f	22	V
Heating current	I_f	2,7	A
Cathode	oxide, indirect heating		
Cathode heating time (minimum)	t_f	3	min

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

MAXIMUM RATINGS

Anode voltage	V_a	4,5	kV
Screen grid voltage	V_{g2}	350	V
Control grid voltage	V_{g1}	−100	V
Cathode mean current	I_{km}	1,2	A
Anode dissipation	W_a	3	kW
Screen grid dissipation	W_{g2}	30	W
Control grid dissipation	W_{g1}	10	W
Operating frequency	f	300	MHz

GENERAL DATA

Electrical

Interelectrode capacitances	$C_{k/g1}$	60	pF
	$C_{k/g2}$	3,7	pF
	$C_{a/g2}$	12,7	pF
	$C_{g1/g2}$	54	pF
	$C_{a/g1}$ *)	0,15	pF
	$C_{a/k}$ *)	0,04	pF

*) Measured with a shield disc (170 mm dia) mounted on the screen grid terminal.

Transconductance (average) (at V_a = 2 kV, V_{g2} = 300 V, I_a = 0,2 to 6 A)	S	90	mA/V
Amplification factor (at V_a = 2 kV, I_a = 0,5 A, V_{g2} = 300 V)	$\mu_{g2/g1}$	4,2	

Mechanical

Mounting position	vertical		
Weight	approx.	1,3	kg

Cooling

forced air

Inlet air temperature	−15 to +45	°C
Air flow at maximum ratings	4,3	m^3/min
Pressure drop	410	Pa
Maximum temperature of anode	250	°C
of any other part	220	°C

For other limitations see the General part.

CONSTANT CURRENT CHARACTERISTICS