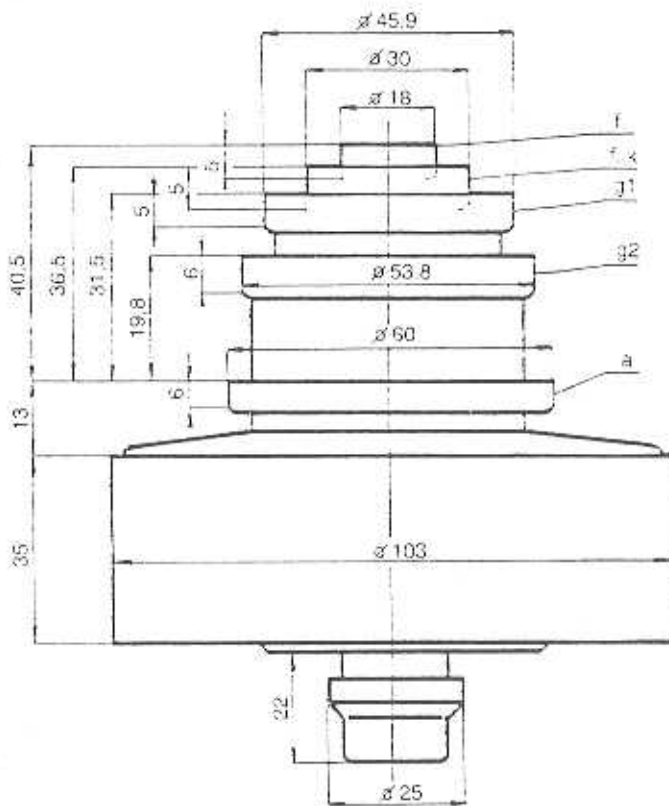




TESLA - ECIMEX a. s.



The RE 3 XO is a forced-air cooled, ceramic/metal power tetrode for frequencies up to 800 MHz, with coaxial arrangement of electrode terminals. The maximum anode dissipation rating is 3 kW. The RE 3 XO is primarily intended for use in TV transmitters.

RE 3 XO

RE 3 XO

HEATING DATA

Heating voltage	V_h	22	V
Heating current	i_h	2,7	A
Cathode		oxide, indirect heating	
Cathode heating time (minimum)	t_h	3	min

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

MAXIMUM RATINGS

Anode voltage ($f = 800$ MHz)	$V_a^{(1)}$	3,6	kV
(TV band III)	$V_a^{(2)}$	3,8	kV
Screen grid voltage	V_{g2}	600	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}	5	W
Operating frequency	f	800	MHz

¹⁾ The anode voltage must not exceed 4 200 V in band III, and lower one, and 3 800 V in band IV - V, at zero anode current.

GENERAL DATA

Electrical

Interelectrode capacitances	$C_{k/g1}$	64	pF
	$C_{k/g2}$	2,6	pF
	$C_{a/g2}$	12	pF
	$C_{g1/g2}$	63	pF
	$C_{a/g1}^{(1)}$	0,07	pF
	$C_{a/k}^{(2)}$	0,016	pF

¹⁾ Measured with a shield disc (170 mm dia) mounted on the screen grid terminal.

Transconductance (average) (at $V_a = 2$ kV, $V_{g2} = 500$ V, $I_a = 0,2 \div 9$ A)	S	150	mA/V
---	---	-----	------

Amplification factor (at $V_a = 2$ kV, $I_a = 0,6$ A, $V_{g2} = 400 \div 500$ V)	$\mu_{g2/g1}$	10	
---	---------------	----	--

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.



TESLA - ECIMEX, n. s.
Pod plynojemem 1603/17
180 77 Praha 8 - Czech Republic

Phone : 02-66311519
Fax : 02-66311546
02-6849213