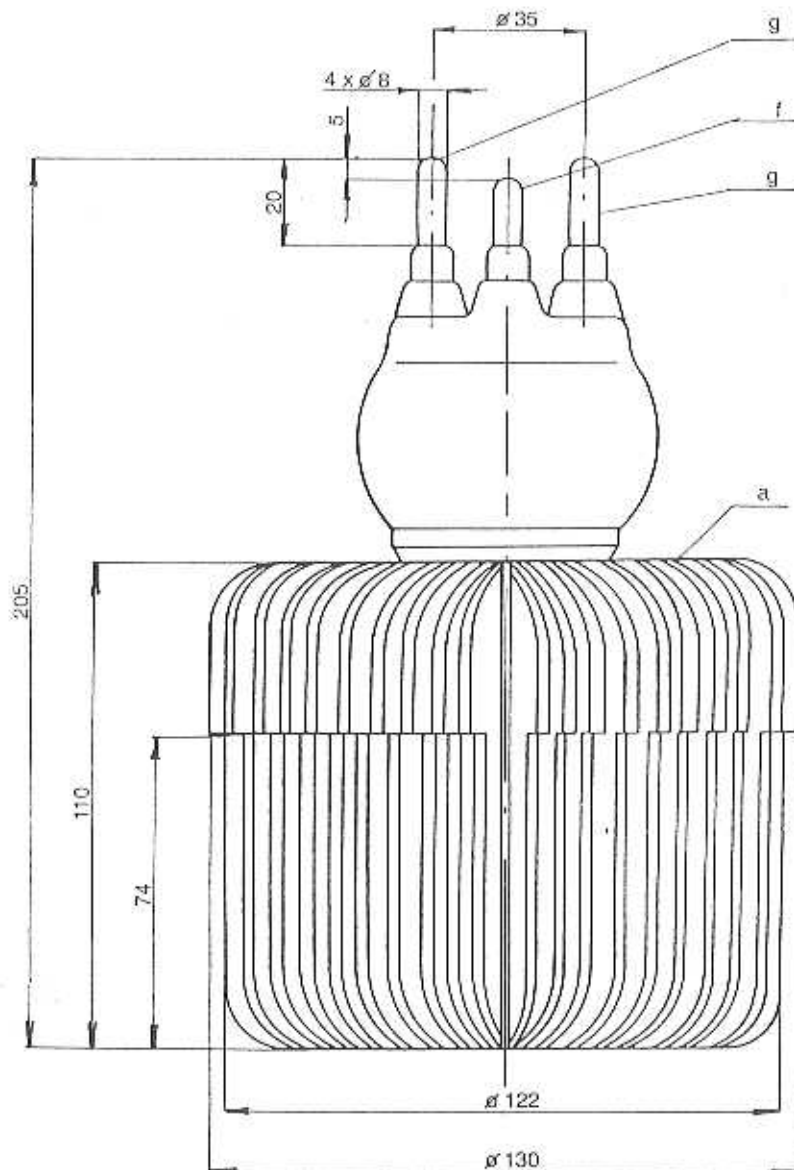




TESLA - ECIMEX a. s.



The RD 2 XG is a forced-air cooled, glass/metal power triode for frequencies up to 150 MHz. The maximum anode dissipation rating is 2 kW. The RD 2 XG is primarily intended for use as a power oscillator in industrial heating applications.

**RD 2 XG**

# RD 2 XG

## HEATING DATA

Filament voltage	$V_f$	12	V
Filament current	$I_f$	51	A
Cathode	tungsten, direct heating		

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

## MAXIMUM RATINGS

Anode voltage (f= 150 MHz)	$V_a$	3,6	kV
(up to 40 MHz)	$V_a$	5	kV
Anode current	$I_a$	1	A
Grid voltage	$V_g$	-500	V
Grid current	$I_g$	200	mA
Anode dissipation	$W_a$	2	kW
Grid dissipation	$W_g$	130	W
Operating frequency	f	150	MHz

## GENERAL DATA

### Electrical

Interelectrode capacitances	$C_{k,g}$	10	pF
	$C_{a,g}$	10	pF
	$C_{a,k}$	1	pF
Transconductance (at $V_a = 3$ kV, $I_a = 0,4$ A)	S	approx. 5,5	mA/V
Amplification factor (at $V_a = 5$ kV, $I_a = 0,4$ A)	$\mu$	approx. 24	
Emission current (at $V_a = V_g = 1$ kV)	$I_e$	min. 5	A

### Mechanical

Mounting position	vertical		
Weight	approx.	4,2	kg

### Cooling

anode	forced air		
electrode terminals	low velocity air flow		
Inlet air temperature		-15 to +45	°C
Air flow at maximum ratings		6,5	m <sup>3</sup> /min
Pressure drop		500	Pa
Maximum temperature of electrode terminals		180	°C
of glass bulb		170	°C
of anode		140	°C
Increase of outlet cooling air temperature	max.	40	°C

For other limitations see the General part.

# CONSTANT CURRENT CHARACTERISTICS

