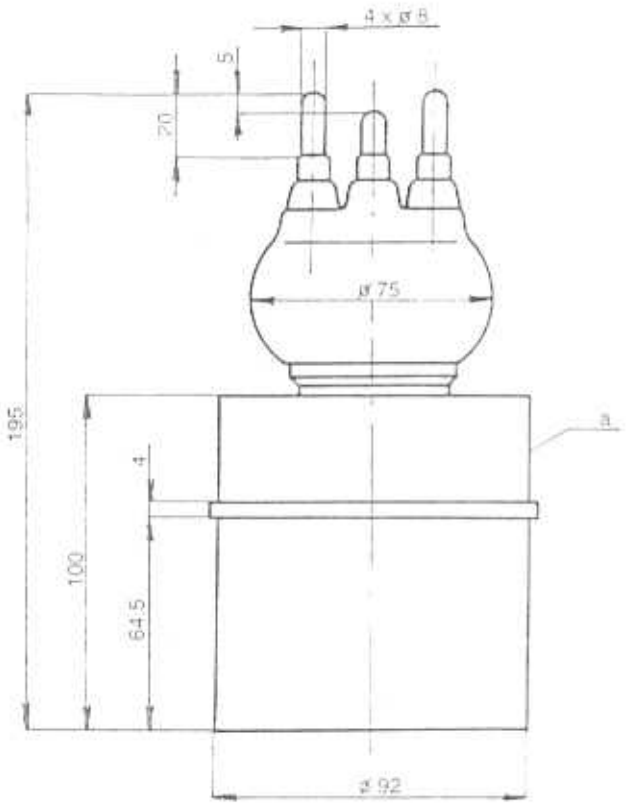
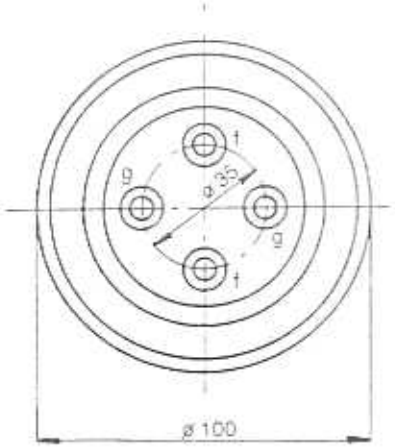
TESLA - ECIMEX a. s.





The RD 2 XH 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 XH is primarily intended for use as an R.F. or A.F. power amplifier in broadcast transmitters or an oscillator in industrial generators.

RD 2 XH

RD 2 XH

HEATING DATA

Filament voltage	V_f	7,5	V
Filament current	I_f	30	A
Cathode	thoriated 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	kV1)
(up to 40 MHz)	V_a	5	kV2)
Anode current	I_a	1	A
Grid voltage	V_g	−500	V
Grid current	I_g	300	mA
Anode dissipation	W_a	2	kW
Grid dissipation	W_g	130	W
Operating frequency	f	150	MHz

1) 2,5 kV with anode modulation
2) 3,5 kV with anode modulation.

GENERAL DATA

Electrical

Interelectrode capacitances	C_{k-g}		11	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)	μ	approx.	24	
Emission current (at V_a = V_g = 1 kV)	I_a	min.	9	A

Mechanical

Mounting position	vertical		
Weight	approx.	3,3	kg

Cooling

anode	forced air
electrode terminals	low velocity air flow

Inlet air temperature	−15 to +40		°C
Air flow at maximum ratings		2,6	m^3/min
Pressure drop		400	Pa
Maximum temperature of glass bulb and electrode terminals		170	°C
of anode		140	°C
Increase of outlet cooling air temperature	max.	60	°C

For other limitations see the General part.

CONSTANT CURRENT CHARACTERISTICS