

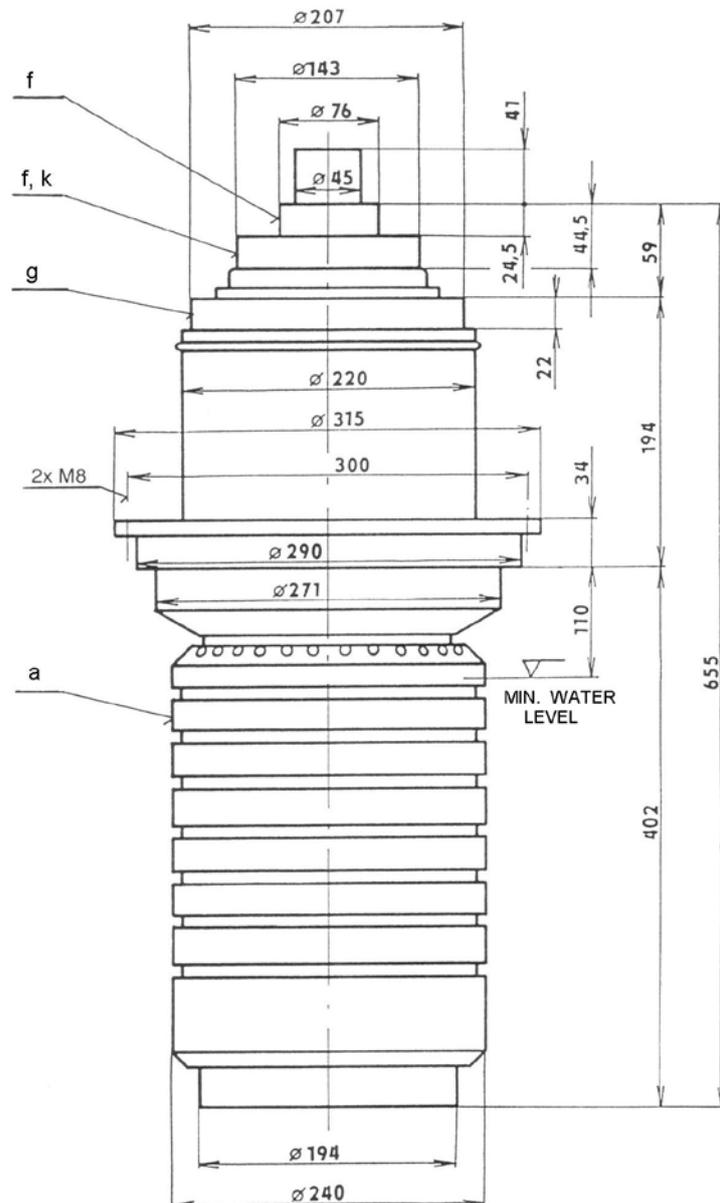


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RD 250 VM

The RD 250 VM is a vapour cooled high-power triode with coaxial arrangement of electrode terminals, manufactured in a metal-ceramic technology, suitable for use at frequencies up to 100 MHz. The maximum anode dissipation rating is 250 kW. The RD 250 VM is primarily intended for use as an R.F. or A.F. power amplifier or oscillator in broadcast transmitters and in industrial generators.



RD 250 VM

HEATING DATA

Filament voltage	V_f	17	V
Filament current	I_f	approx. 520	A
Cathode		thoriated tungsten, direkt heating	

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

MAXIMUM RATINGS

Anode voltage ($f = 30$ MHz)	V_a	11	kV
(up to 10 MHz)	V_a	13	kV
Cathode peak current	I_{kp}	380	A
Anode dissipation	W_a	250	kW
Grid dissipation	W_{g1}	3	kW
Operatin frequency	f	30	MHz

GENERAL DATA

Electrical

Interelectrode capacitances

C_{kg}	440	pF
C_{ag}	170	pF
C_{ak}	5	pF

Transconductance

(at $V_a = 4$ kV, $I_a = 10$ A)

S	min. 180	mA/V
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Amplification factor

(at $V_a = 6$ to 15 kV, $I_a = 5$ A)

μ	40
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Emission current

(at $V_a = V_g = 1000$ V)

I_e	min. 380	A
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Mechanical

Mounting position

vertical (anode down)

Weight

approx. 69 kg

Cooling - water

Anode

vapour cooled

Electrode terminals

forced air

Reverse water flow for maximum ratings

7 l/min.

(at reverse flow water temperature of 90 °C)

Air flow to the electrode terminals

3 m³/min.

Maximum temperature of ceramic parts and electrode terminals

250 °C

Safety precautions

To protect the tube from damage in case of sparkover a high - speed trip is required, which disconnects the anode voltage and limits the energy released during arcing. For this purpose the connected anode voltage is short - circuited by a copper wire with diameter 0,3 mm which is directly applied at the tube supply lines. If the wire does not fuse, the tripcircuit complieswith the requirements.

For other limitations see the General part.

CONSTANT CURRENT CHARACTERISTICS

RD 250 VM

