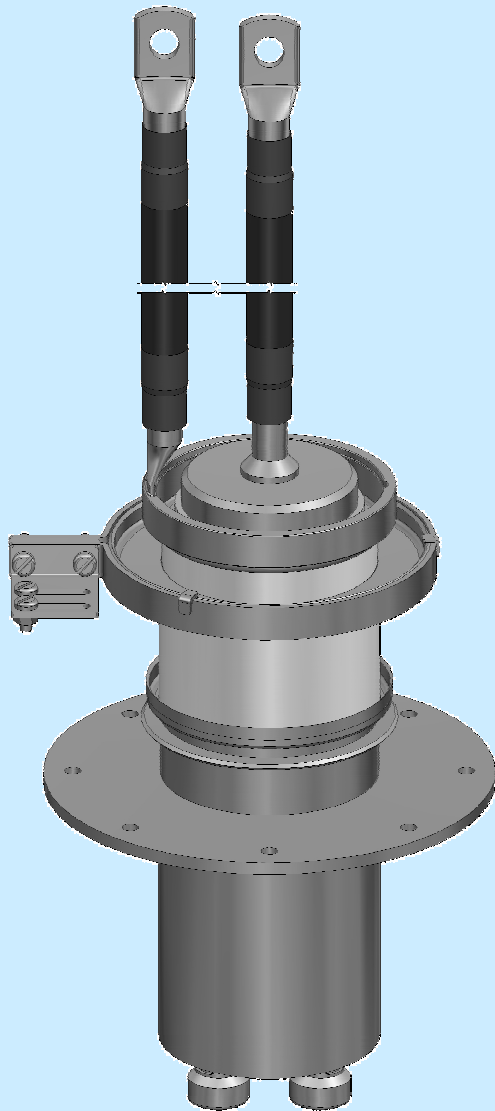


RD12ZMF / ITK12-1

Water-cooled power triode

Output power: 40 kW



RD12ZMF is water-cooled triode, made by metal-ceramic technology. This electron tube is intended for industrial generators up to 120 MHz. Application – RF heating, welding, hardening or gluing.

Maximum plate dissipation can be 15 kW. Output power is 40 kW in CW mode.

For operation in pulse mode, the parameters depends on equipment characteristics. Contact us for specific information.

RD12ZMF / ITK12-1

Water-cooled power triode

Output power: 40 kW



Technical specifications

Cathode	WTh	
Filament voltage	5.8	V
Filament current	145	A
Amplification factor	23	
Transconductance	50	mA/V
Capacitance		
• grid-anode	21	pF
• grid-cathode	55	pF
• cathode-anode	1	pF

Maximum ratings

Frequency	120	MHz
Anode voltage		
• < 30 MHz	12	kV
• ≥ 30 MHz	9-6	kV
Grid voltage	-1500	V
Grid current	1.5	A
Grid dissipation	350	W
Anode dissipation	15	kW
Peak cathode current	28	A

Mechanical characteristics and cooling

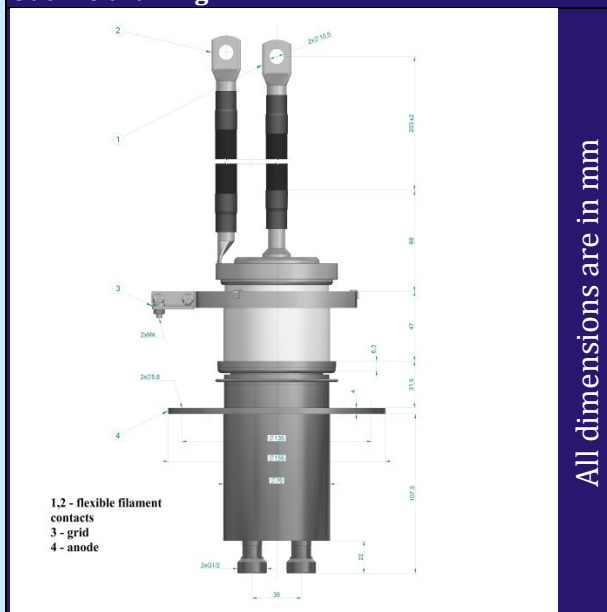
Anode cooling	water	
Water inlet temperature	35	°C
Temperature (any point of envelope)	220	°C
Min. water pressure at inlet	8	bar
Outlet water temperature	45	°C
Mounting position	vertical	
Weight	3,1	kg

Additional accessories*

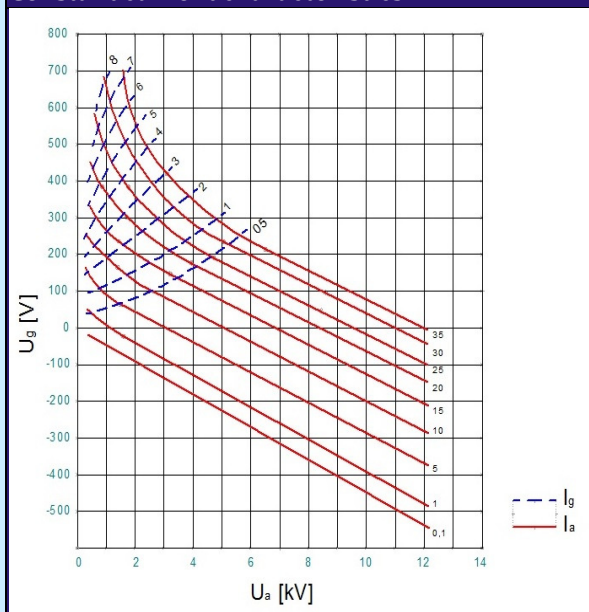
- Grid contact ring

*for detailed information please contact our sales department

Outline drawing



Constant current characteristics



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