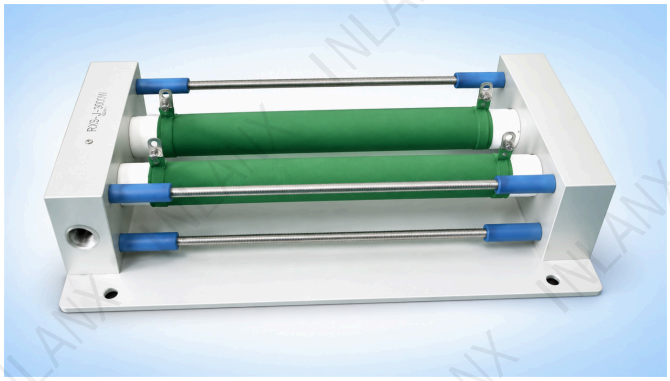
RXS-J Water-cooled Resistors

Product Overview

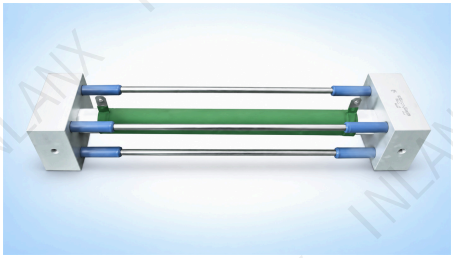
• Features: compact size and high power. Separate water and electrical paths; convenient installation and use.

• Applications: voltage division, current shunting and loads in high-power electronic circuits; also suitable for energy absorption.

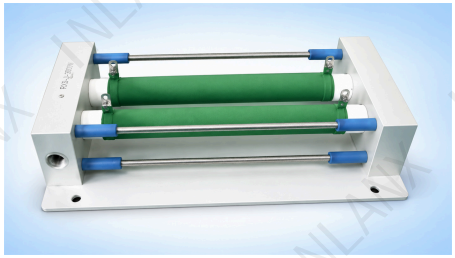
• Products meeting RoHS and REACH requirements can be manufactured.



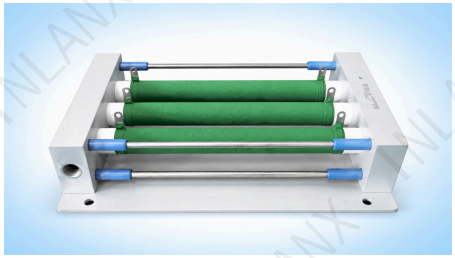
Product Configurations



RXS-J-2000W



RXS-J-3000W



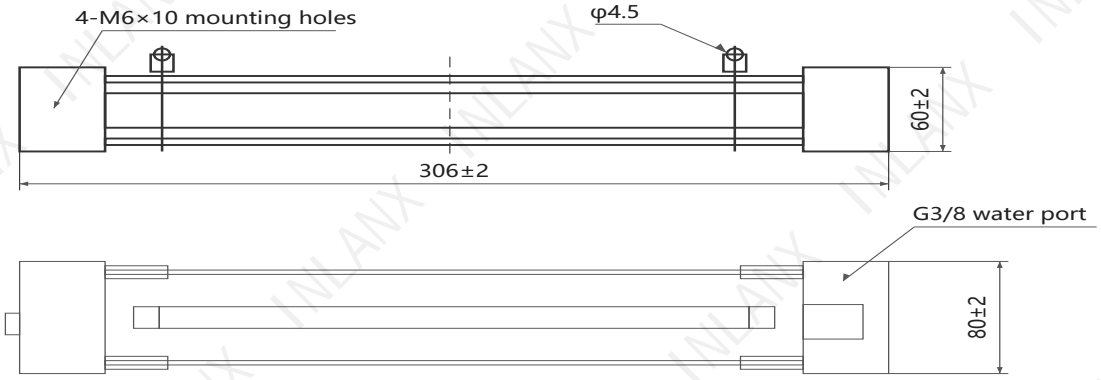
RXS-J-5000W

Specifications

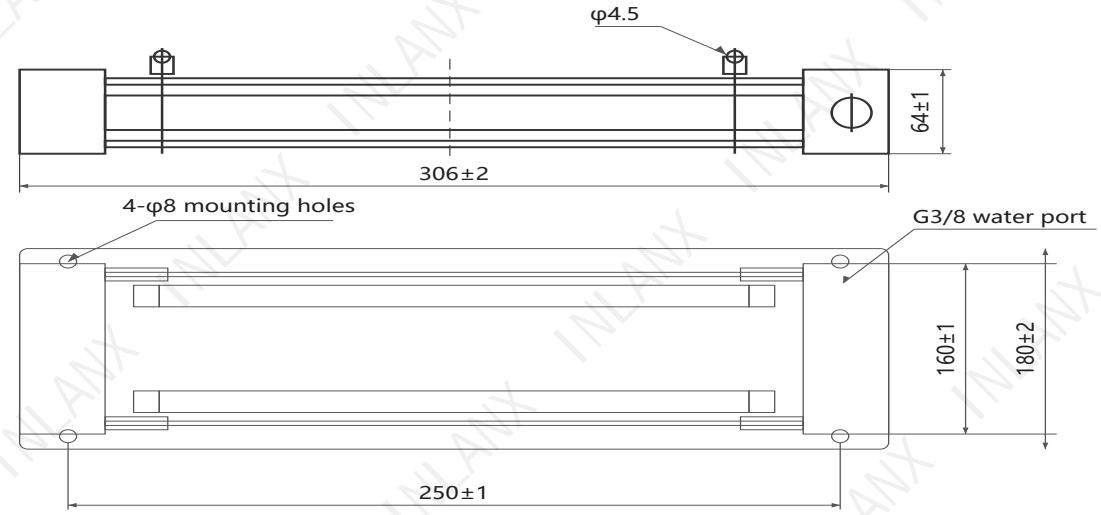
Model	Rated power (W)	Power (W) without cooling medium	Resistance range (Ω)	Cooling medium	Flow (L/min)	Operating environment
RXS-J-2000W	2000	80W	10 ~ 2K	Distilled water, deionized water, or a mixture of deionized water and coolant. Medium pressure: 0.4Mpa.	≥4	Temperature range: (-40 ~ +70)°C; altitude: ≤1000m
RXS-J-3000W	3000	150W	10 ~ 1.5K		≥8	
RXS-J-5000W	5000	200W	10 ~ 800		≥12	

Outline Dimensions • mm

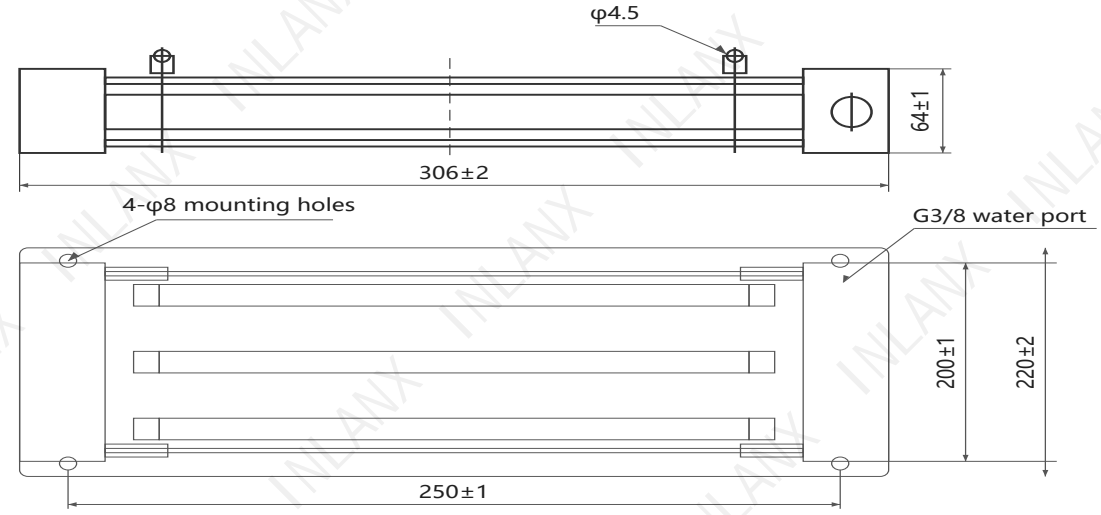
RXS-J-2000W



RXS-J-3000W



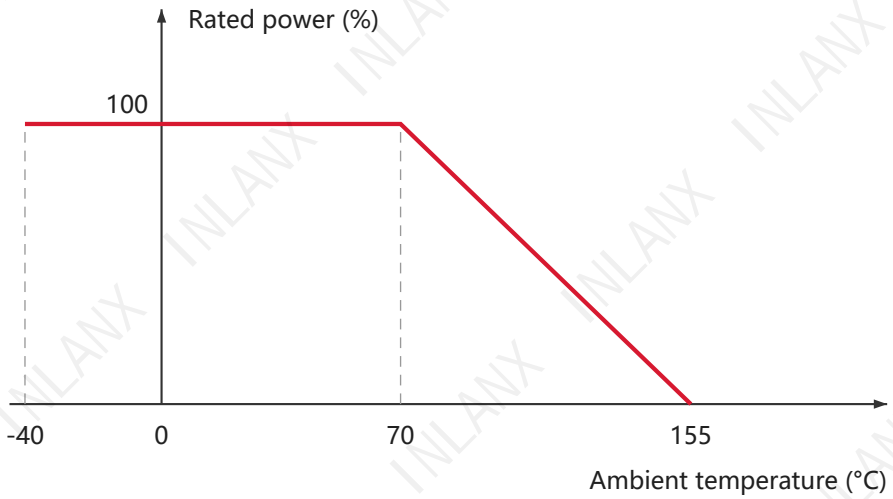
RXS-J-5000W



Main Test Items

Test item	Test conditions	Performance requirements	Test standard
Leak tightness	Pressure: 0.6Mpa, 2h	No water leakage	-
Insulation resistance	Voltage: (500±50)Vdc, 1min, between terminals and mounting plate	≥1GΩ	GB/T 5729-2003, 4.6
Voltage withstand	Voltage: 4000Vdc, 1min, between terminals and mounting plate	No breakdown or flashover	GB/T 5729-2003, 4.7
Temperature rise	Ambient: (15 ~ 35)°C; cooling medium; rated power	≤85°C	GB/T 5729-2003, 4.14
Vibration	Frequency: (150 ~ 300)Hz; acceleration spectral level: 0.02g²/Hz; 30min	Seal intact; ΔR≤±(1%R+0.05Ω)	GB/T 2423.11-1997
Damp heat, steady state	Temperature: (40±2)°C; relative humidity: (93±3)%; 96h	Seal intact; ΔR≤±(5%R+0.1Ω)	GB/T 2423.03-1993
Endurance at room temperature	Ambient: (15 ~ 30)°C; cooling medium; rated power; 1.5h on, 0.5h off; 12h	Seal intact; ΔR≤±(5%R+0.1Ω)	GB/T 5729-2003, 4.25

Derating Curve



Ordering Example

RXS-J	5KW	3X20Ω	±5%	1000 pcs
Model	Rated power	Nominal resistance	Resistance tolerance	Quantity