



WATER COOLED HIGH POWER RESISTORS

RXP2000 Water Power Resistors

Specifications:

2K Watts High Power Thick Film, Direct Water Cooling

Rongtech general models of high power resistors. Direct water cooling with normal water (or other cooling medium), shows better results compared to traditional cooling method.

For power supply, control device, electric drive , electric transmission and distribution system etc.

Technical characteristics:

- ✧ Thick film resistor, non-inductive design,
- ✧ Direct cooling, with normal cooling water.
- ✧ Resistance from 0.5Ω to 1MΩ, high reliability.
- ✧ High voltage and pulse loading, “Rongtech power resistor pulse load characteristics”
- ✧ Special resin-filled cover with large creeping distance and air distance.
- ✧ Case material: CTI≥600, in compliance with UL94-V0
- ✧ Cooling size:
L: 68mm; W: 65mm; H: 10mm

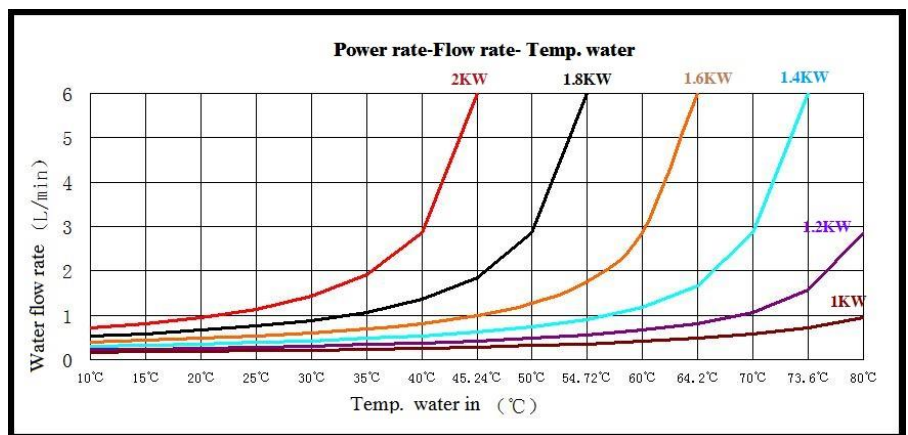
Dimensions:

Dim.	Min (mm)	Max (mm)
A	59.20	60.80
B	35.80	36.20
C	4.50	5.50
D	33.80	34.20
E	56.80	57.40
F	64.20	65.80
G	17.50	18.50
H	4.05	4.30
J	6.50	7.50
K	4.50	5.50
L	14.50	15.50
M	24.50	25.50
N	24.50	25.50
O	56.80	57.20

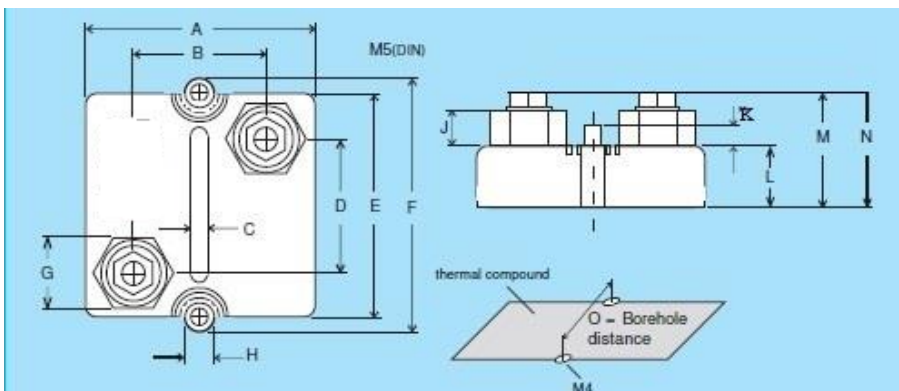


- Resistance: 0.5Ω ~ 1MΩ
- ✧ Tolerance: ±5% ~ ±10%
- ✧ TCR: ±150ppm/°C (25°C ~ 105°C) other values on request.
- ✧ Power rating: Max. 2000Watts
- ✧ Max operating voltage: 5,000VDC.
- ✧ Short time overload: 3000W, 10S, ΔR ≤ ±(0.4%R + 0.001Ω).
- ✧ Peak current: up to 1500Amp. Depending on pulse length and frequency.
- ✧ Dielectric strength: 6kVrms, 50Hz, 1min, 10kVrms on request.
- ✧ Partial discharge: 4kVrms, <10pC; 7kVrms on request.
- ✧ Insulation resistance: 10GΩ, Min at 500V.
- ✧ Creeping distance: Min. 42mm. Up to 85mm as request
- ✧ Air distance: 14mm, Min.
- ✧ Inductance: ≤ 80nH
- ✧ Capacitance /Mass: ≤ 110pF
- ✧ Capacitance /Parallel: ≤ 40pF
- ✧ Working temperature: Up to the condition of cooling medium
- ✧ Cooling water: Normal cooling water (high purity water , Oil or other medium)
- ✧ Power rate -Flow rate- Temp. water Graph as bellow
- ✧ Contact terminal: M5 screw, Max torque 2Nm.
- ✧ Resistor installation: M4 screw, Max torque 1.8Nm

Power rate -Flow rate- Temp. water Graph :



Note: The above graph is based on the normal cooling water, other mediums please contact Rongtech to confirm.



✧ Applicable standard:
IEC60115-1: 2001 (GB/T5729-2003)
MIL-STD-202
MIL - R - 39009D

✧ Order example:
Model R TOL TCR
UXP2000 50R 5% 150PPM