

PRECISION RESISTORS

RHP-M

Features

- # Up to 250 W permanent power
- # Max. permanent current: 420A(0.5mOhm)
- # Very high precision of tolerance and TCR
- # 4-terminal connection
- # Thermal design of reliability

Applications

- # Measurement equipment
- # reference resistors in laboratories
- # High precision current source
- # Laboratory power supplies
- # Electric vehicle charging equipments



Technical data

Resistance values	Ohm	0.0005 to 0.1
Tolerance	%	0.1 / 1
Temperature coefficient (0-80°C)	ppm/K	<3
Applicable temperature range	°C	-55 to +140
Power rating	W	250 (on a heatsink)
Thermal resistance to ambient(Rth)	K/W	<5
Thermal resistance to aluminium substrat (Rthi)	K/W	<0.2
Dielectric withstanding voltage	V	AC/DC 2000
Inductance	nH	<8

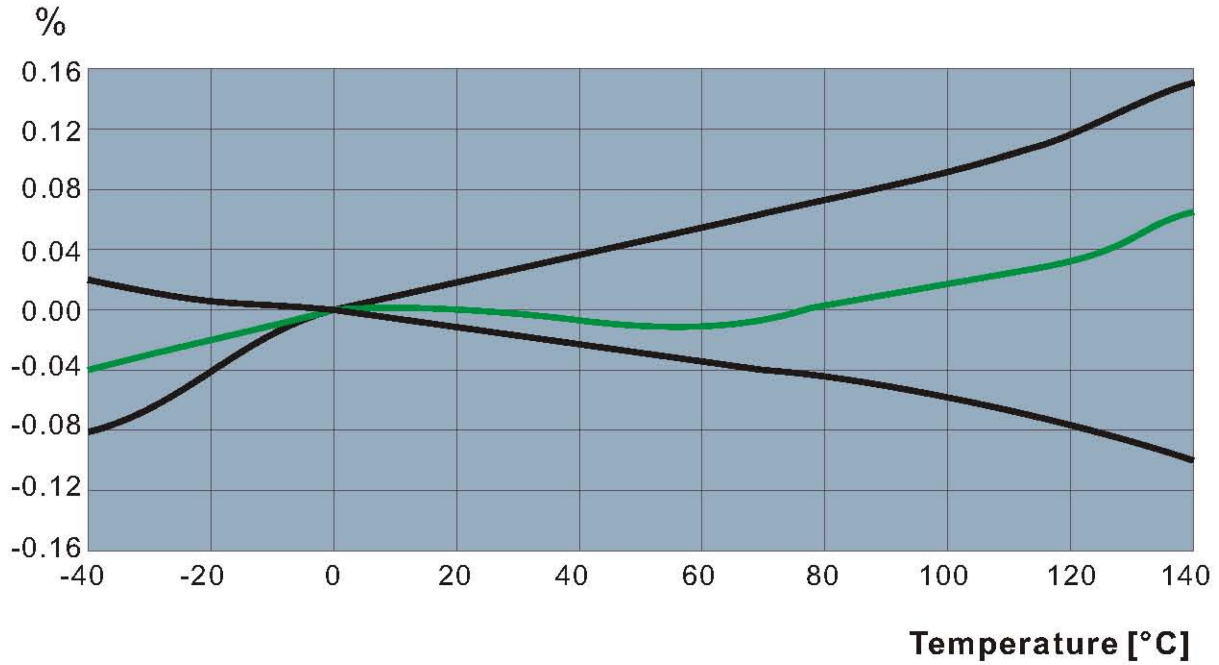
***The radiator is arranged**

According to the maximum power used to measure the temperature of radiator. the maximum not more than 90°C.

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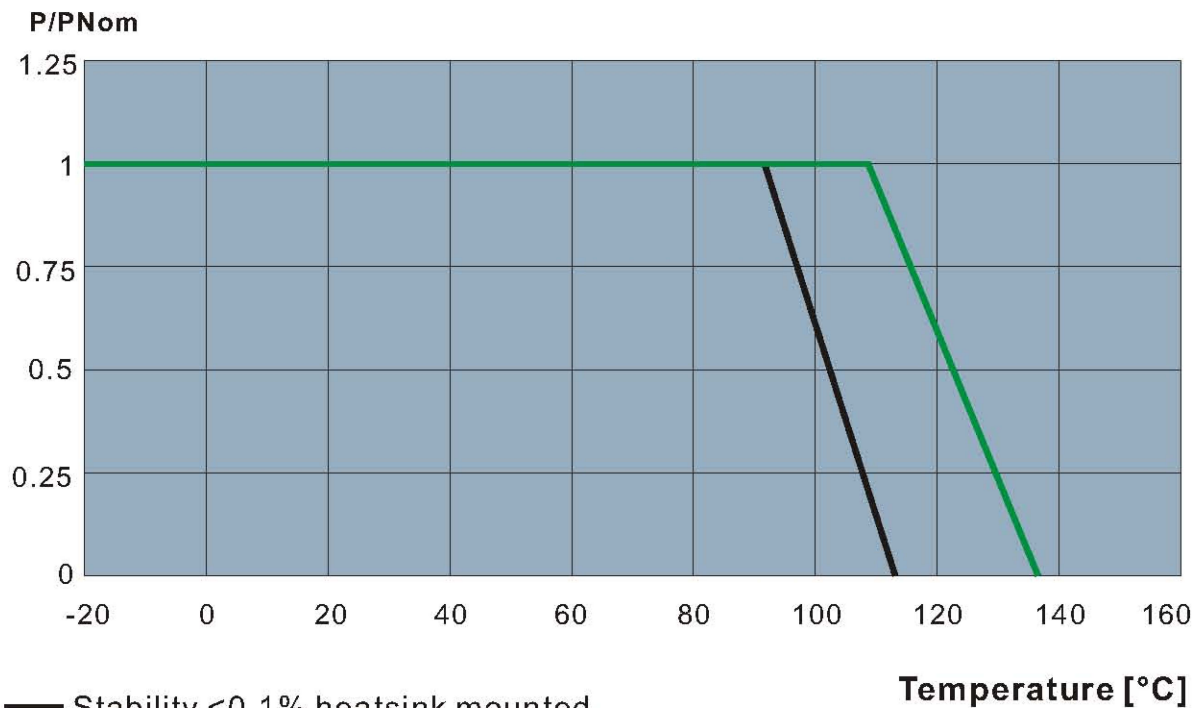
RHP-M

Temperature dependence of the electrical resistance of RHP resistors (range ± 5 ppm/K)



- Limiting curve
- typical temperature dependence of a RHP-M resistor

Power derating curve



- Stability < 0.1% heatsink mounted
- Stability < 0.2% heatsink mounted

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RHP-M Standard resistance values and tolerances

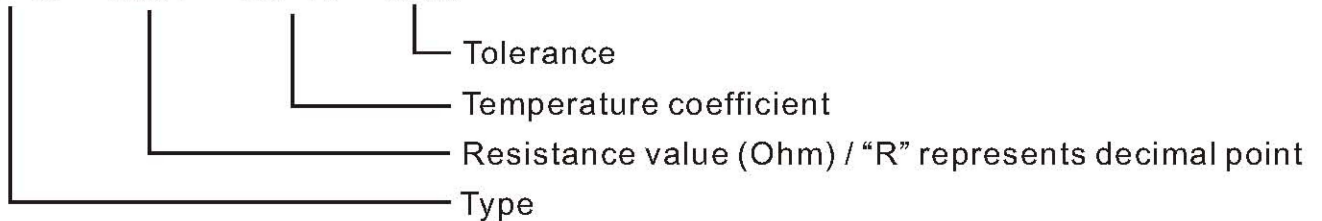
Resistance values	Tolerance		
	0.1%	0.5%	1%
R0005		√	√
R001	√	√	√
R002	√	√	√
R005	√	√	√
R010	√	√	√
R020	√	√	
R050	√	√	
R100	√	√	

Standard temperature coefficient and tolerances (ppm/K)

Resistance values	Temperature coefficient		
	3PPM/K	5PPM/K	10PPM/K
R0005		√	√
R001	√	√	√
R002	√	√	√
R005	√	√	√
R010	√	√	√
R020	√	√	√
R050	√	√	√
R100	√	√	√

Ordering code

RHP-M—R001—TR-10—0.5%



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RHP-M Mechanical dimensions [mm]

