

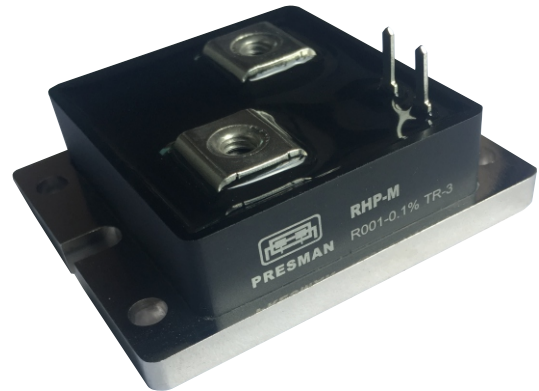
RHP-M Ver:1.11

Features

- # Up to 250 W permanent power
- # Max. Peak 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

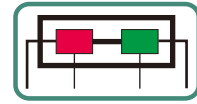


Technical data

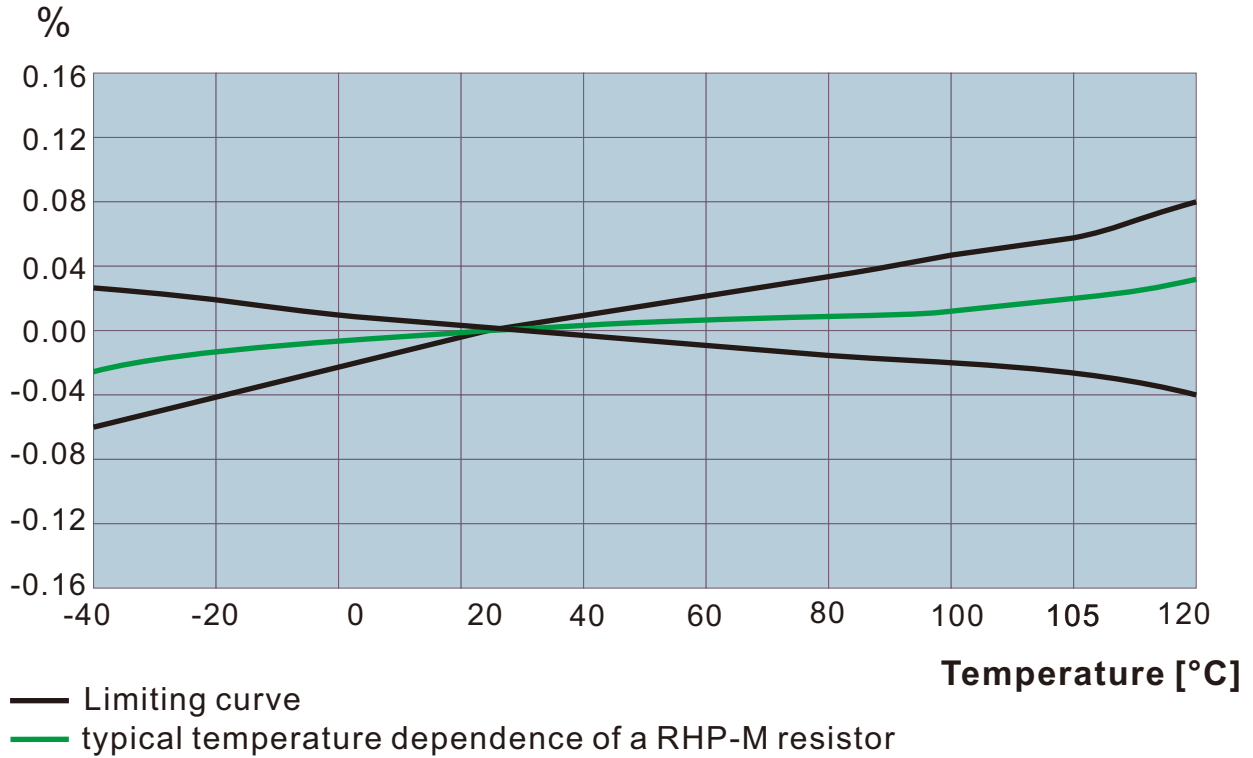
Resistance values	Ohm	R0005 to 100R0
Tolerance	%	0.05 / 1
Temperature coefficient (0-80°C)	ppm/K	<3
Applicable temperature range	°C	-55 to +140
Power rating	W	250 (on a heatsink)
Thermal resistance to ambient(Rth)	K/W	<5
Thermal resistance to aluminium substrat (Rthi)	K/W	<0.2
Dielectric withstanding voltage	V	AC/DC 2000
Inductance	nH	<8
Load Life Stability	±0.05%MaxΔR,50w on heat sink at +25°C,2000 hours ±0.01%MaxΔR,25w on heat sink at +25°C,2000 hours	

*The radiator is arranged

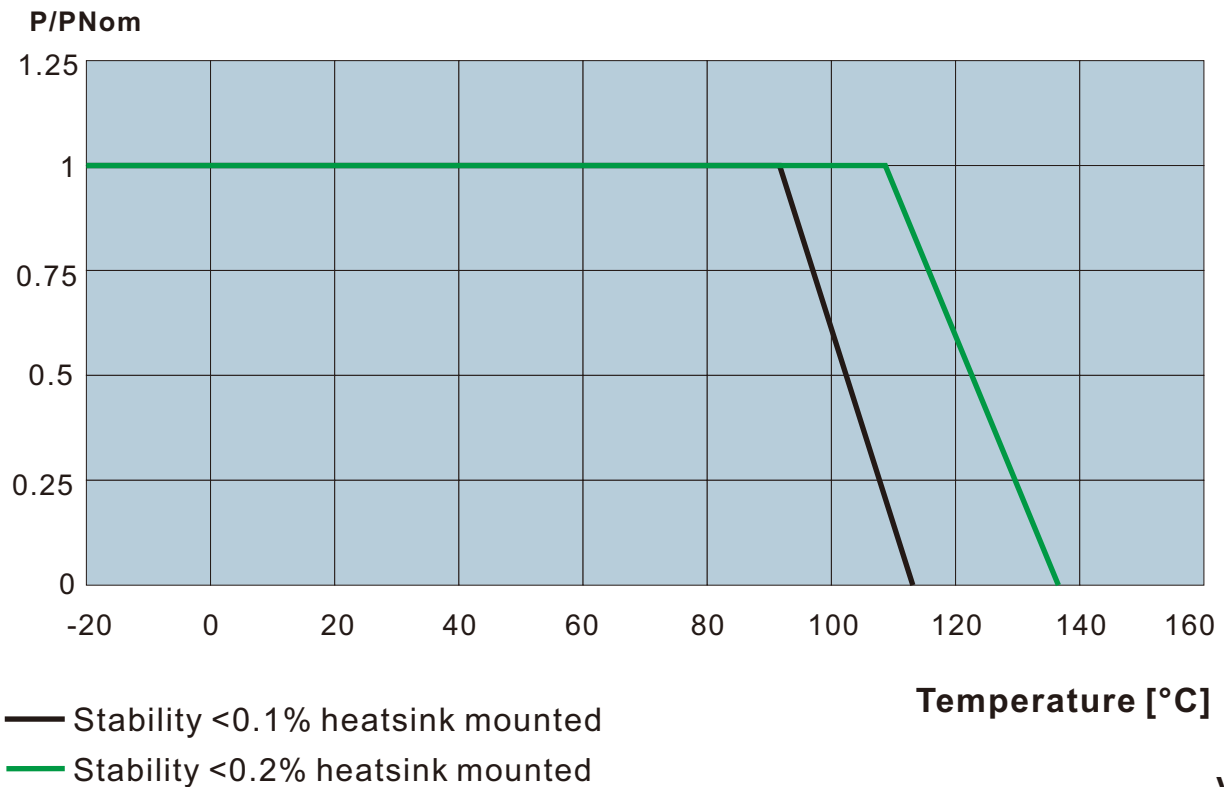
According to the maximum power used to measure the temperature of radiator. the maximum not more than 90°C.



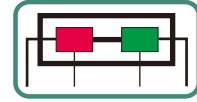
RHP-M Temperature dependence of the electrical resistance of RHP resistors (range ± 5 ppm/K)



Power derating curve



Ver:1.11



RHP-M Standard resistance values and tolerances

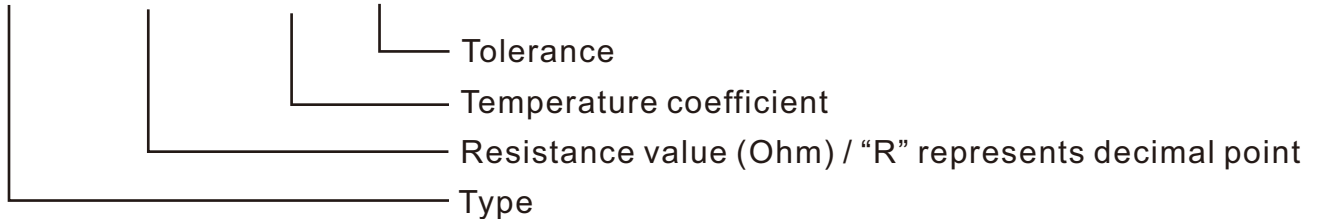
Resistance values	Tolerance			
	0.05%	0.1%	0.5%	1%
R0005		√	√	√
R001-R010	√	√	√	√
R020-R100	√	√	√	√
R200-1R00	√	√	√	√
2R00	√	√	√	√
4R00	√	√	√	√
10R0	√	√	√	√
100R	√	√	√	√

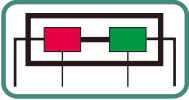
Standard temperature coefficient and tolerances (ppm/K)

Resistance values	Temperature coefficient		
	3PPM/K	5PPM/K	10PPM/K
R0005	√	√	√
R001-R010	√	√	√
R020-R100	√	√	√
R200-1R00	√	√	√
2R00	√	√	√
4R00	√	√	√
10R0	√	√	√
100R	√	√	√

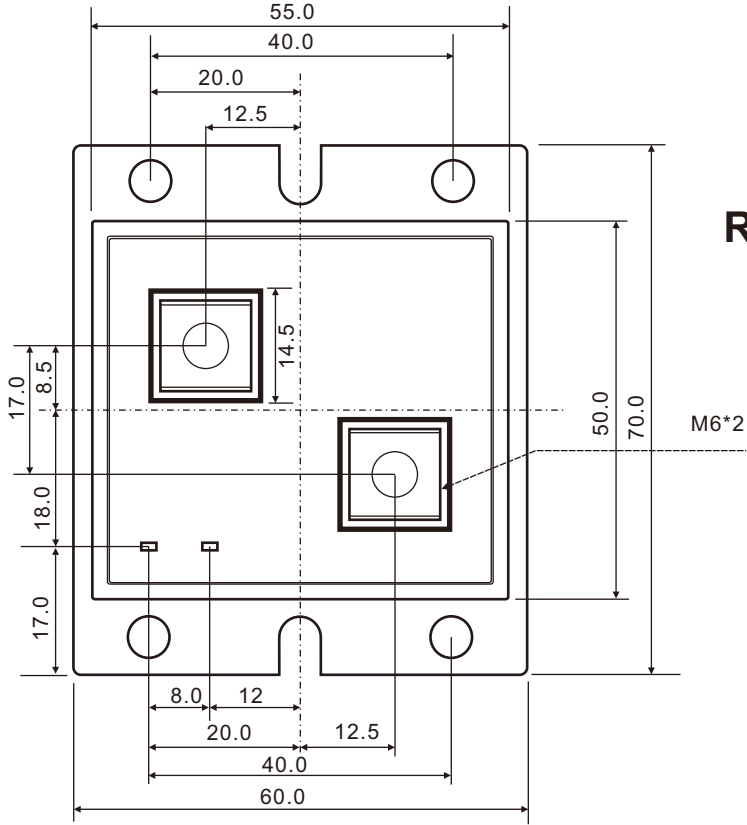
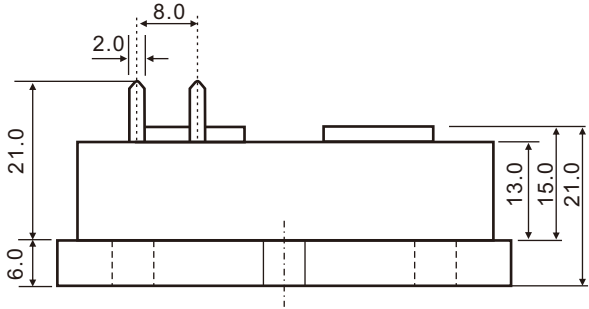
Ordering code

RHP-M—R001—TR3—0.1%





RHP-M Mechanical dimensions [mm]



RHP-M