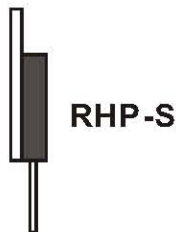
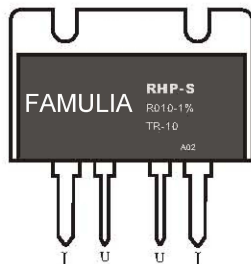


PRECISION RESISTORS

RHP-S

Features



- # Up to 12 W permanent power
- # Max. permanent current: 77.5 A(2mOhm)
- # 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

Technical data

Resistance values	Ohm	0.002 to 0.1
Tolerance	%	0.1 / 1
Temperature coefficient (0-80°C)	ppm/K	<3 / 10
Applicable temperature range	°C	-55 to +130
Power rating	W	5 / 12 (on a heatsink)
Thermal resistance to ambient(Rth)	K/W	<10
Thermal resistance to aluminium substrat (Rthi)	K/W	<3
Dielectric withstanding voltage	V	AC/DC 2000
Inductance	nH	<10

***The radiator is arranged**

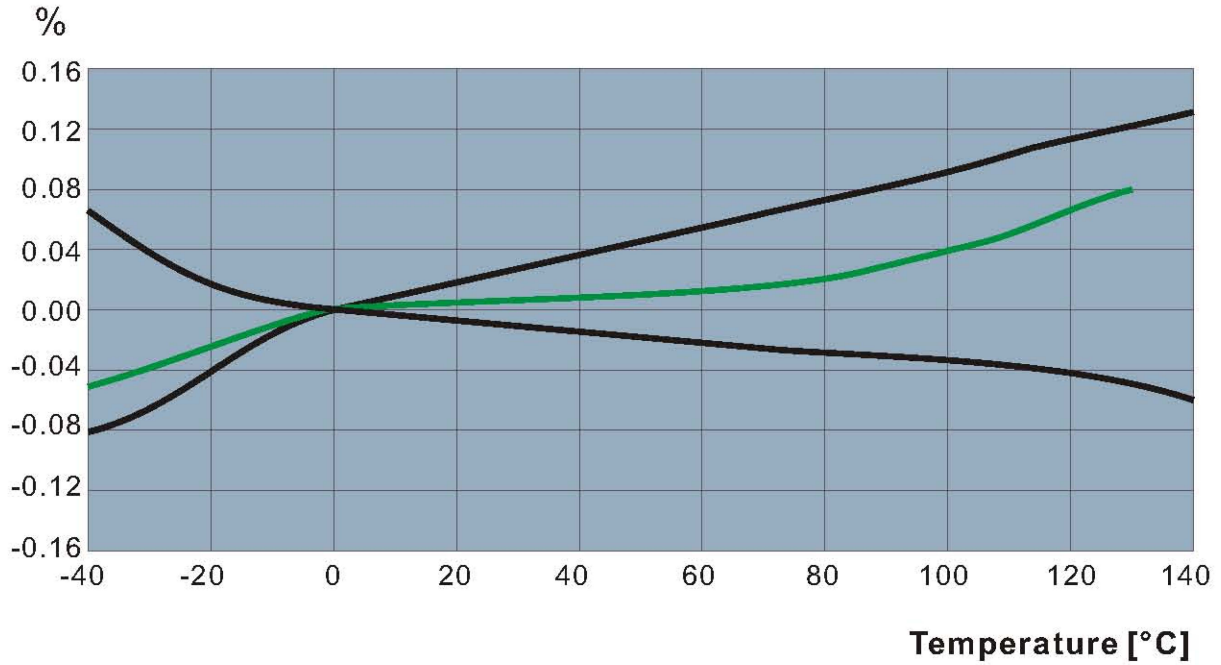
According to the maximum power used to measure the temperature of radiator, the maximum not more than 80°C.

PRECISION RESISTORS



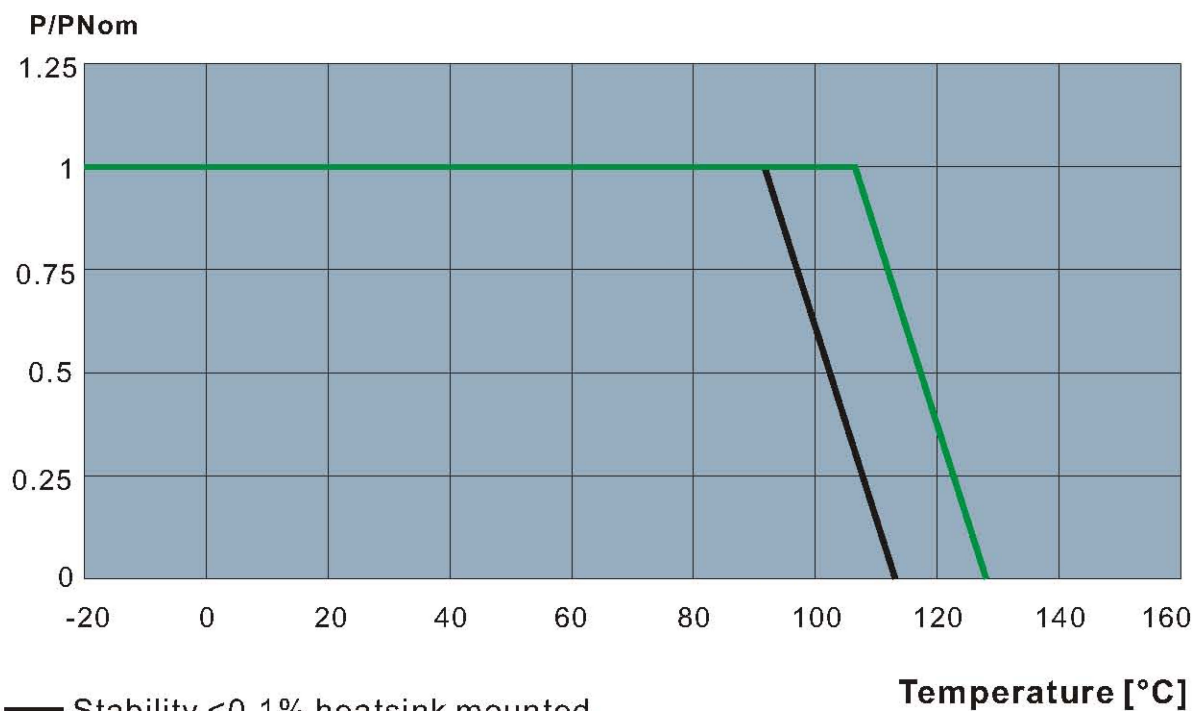
RHP-S

Temperature dependence of the electrical resistance of RHP-S resistors (range ± 10 ppm/K)



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

Power derating curve



- Stability <math>< 0.1\%</math> heatsink mounted
- Stability <math>< 0.2\%</math> heatsink mounted

PRECISION RESISTORS

RHP-S Standard resistance values and tolerances

Resistance values	Tolerance		
	0.1%	0.5%	1%
R002			✓
R004			✓
R005		✓	✓
R008		✓	✓
R010	✓	✓	✓
R020	✓	✓	✓
R050	✓	✓	✓
R100	✓	✓	

standard Temperature coefficient and tolerances (ppm/K)

Resistance values	Temperature coefficient		
	3PPM/K	5PPM/K	10PPM/K
R002			✓
R004		✓	✓
R005	✓	✓	✓
R008	✓	✓	✓
R010	✓	✓	✓
R020	✓	✓	✓
R050	✓	✓	✓
R100	✓	✓	✓

Mechanical dimensions [mm]

