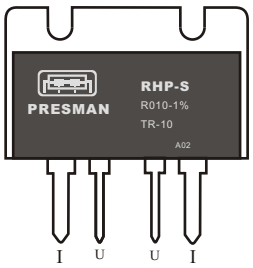
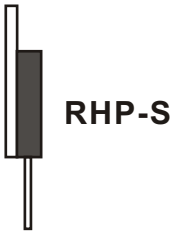
PRESMAN PRECISION RESISTORS

RHP-S





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

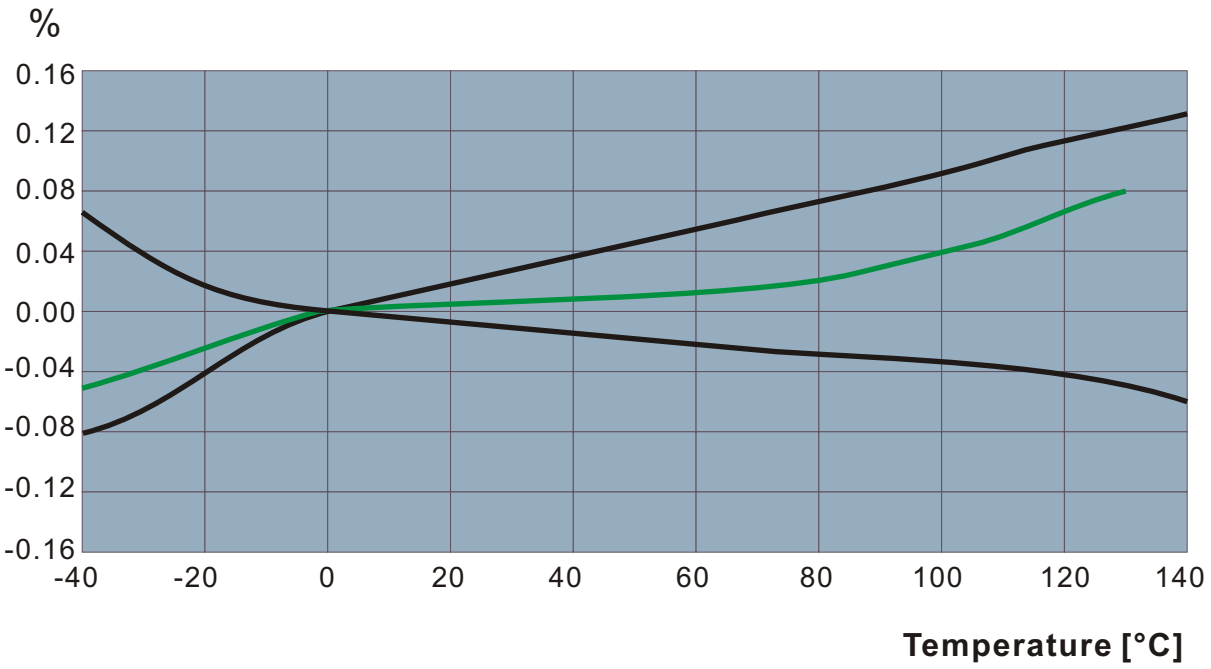
Technical data

Resistance values	**Ohm**	0.002 to 0.1
Tolerance	**%**	0.1 / 1
Temperature coefficien (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 than80°C.

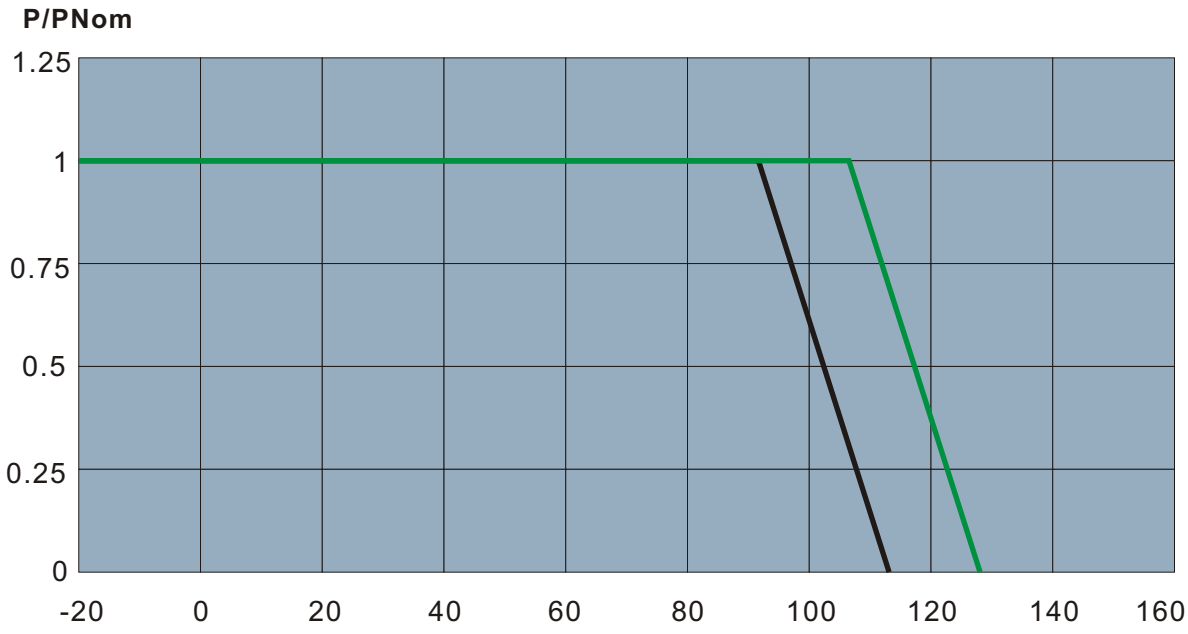
RHP-S

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 <0.1% heatsink mounted
Stability <0.2% heatsink mounted

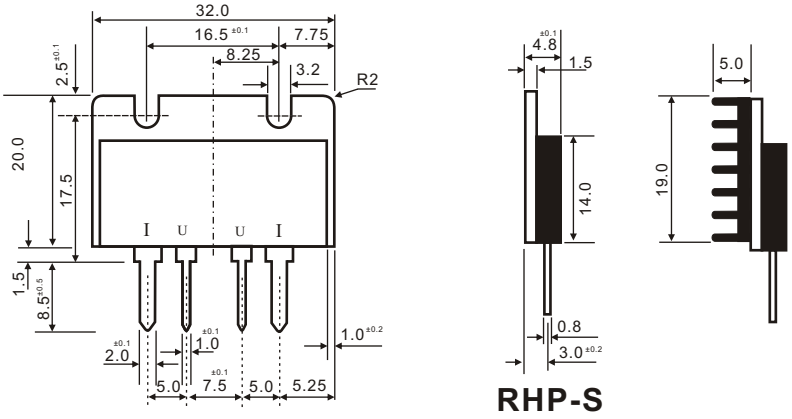
RHP-S Standard resistance values and tolerances

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]



RHP-S