

Company Profile

For vehicle level current detection, the detection current value can be up to hundreds of amperes to thousands of amps. The shunt needs to work under large current, and the temperature rise on the resistance surface will lead to the change of the resistance value, thus affecting the detection accuracy. To minimize the influence of temperature on the detection accuracy, the shunt with low temperature drift, low current coefficient and low thermal potential must be used. The Precision Shunt is widely used in battery management system, power electronic equipment current detection frequency converter UPS motor control and electronic load equipment.

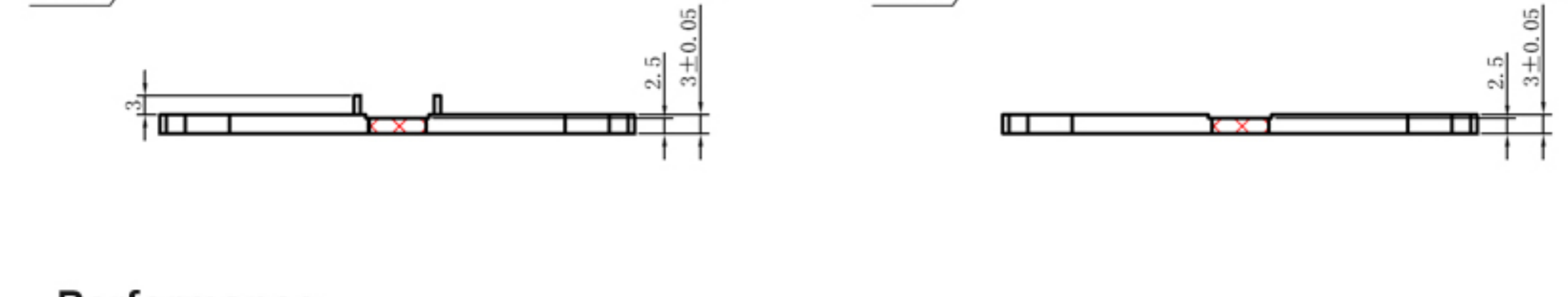


PRECISION SHUNT



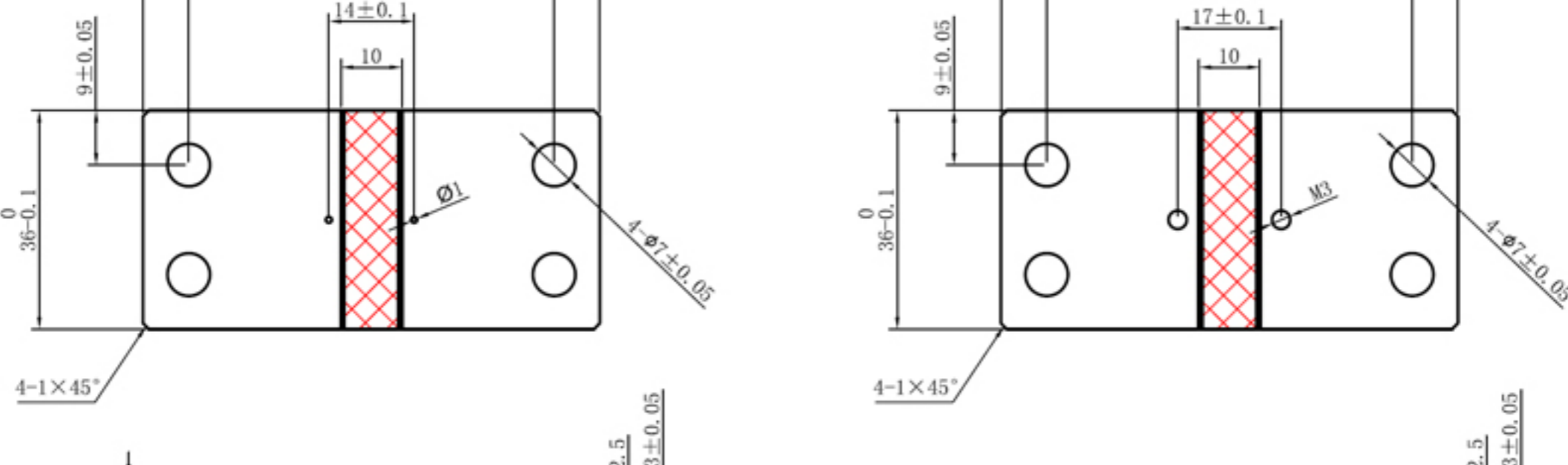
Specifications & Size

QE Series:



Performance

Part No.	Accuracy	Resistance	Manganin Temperature Drift	Rated Current	Current Coefficient	Rated Power	Output Structure
QE30050-75-18-7-60-01	±0.5%	50μΩ	100ppm/°C (-60°C~+175°C) 50ppm/°C (+20°C~+60°C)	1000A	<3ppm/A	50W	PIN / M3
	±1%						
	±3%						
	±5%						

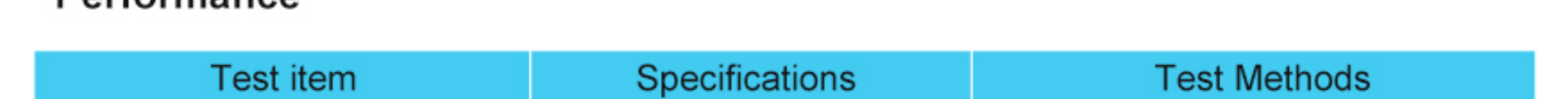


Performance

Part No.	Accuracy	Resistance	Manganin Temperature Drift	Rated Current	Current Coefficient	Rated Power	Output Structure
QE30100-75-18-7-60-01	±0.5%	100μΩ	100ppm/°C (-60°C~+175°C) 50ppm/°C (+20°C~+60°C)	600A	<3ppm/A	36W	PIN / M3
	±1%						
	±3%						
	±5%						

FL-2 Series:

10-20A		
30-50A		
75-100A		
150-250A		
300A		
400A		
500A		
600A		
750A		
1000A		
1500-2000A		
3000A		

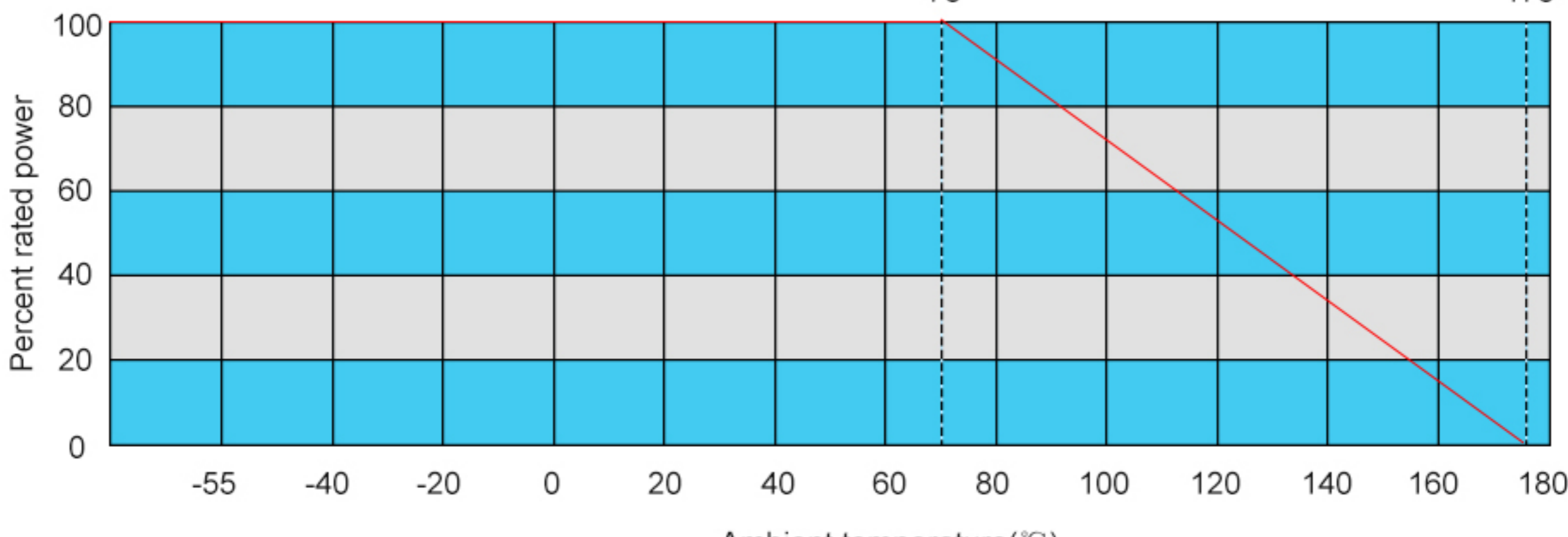


Parameters Characteristics

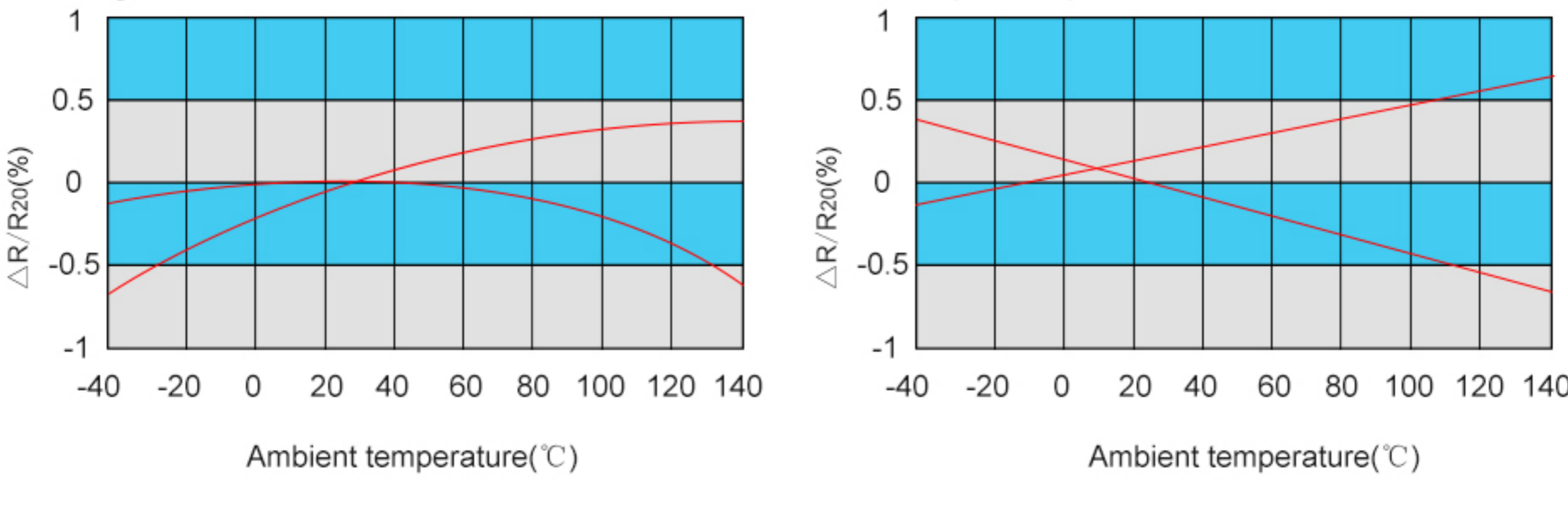
Performance

Test item	Specifications	Test Methods
Thermal Shock	$\Delta R \leq \pm 0.5\%R$	-55°C/175°C, 30min, 5cycles
Over Load	$\Delta R \leq \pm 0.5\%R$	5PR, 5S
Leaching	$\Delta R \leq \pm 0.5\%R$	260±2°C, 10±1S
Damp heat, Steady	$\Delta R \leq \pm 1.0\%R$	-55°C, RH93±3%, 56d
Vibration	$\Delta R \leq \pm 0.5\%R$	10~200Hz, 98m/s ² , 6H
Load life	$\Delta R \leq \pm 1.0\%R$	70°C, PR, 1000h
High temperature Exposure	$\Delta R \leq \pm 1.0\%R$	175°C, 1000h

Derating Curve



Resistance Change VS Temperature



Application

