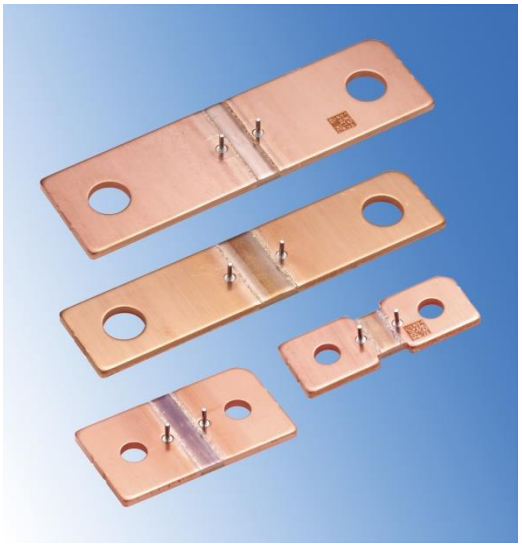
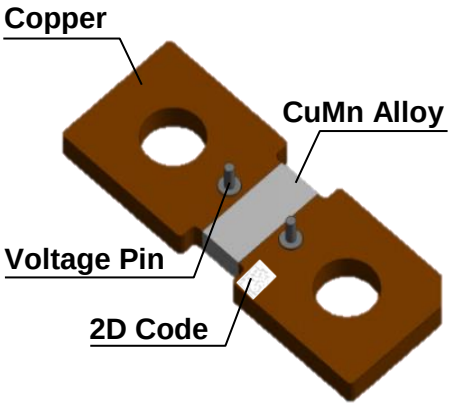
1000 A – Large Current Shunt

HS-Series



The new HS series from KOA is ideal for sensing currents up to 1000 A.
Constructed using a solid metal alloy resistance element with copper terminations the device provides superior corrosion and heat resistance and has excellent pulse resistance.



Product Features

- Large current detection by ultra-low resistance of **50 µΩ** NEW
- High accuracy sensing with dedicated detection terminals
- Bus bar and cable can be screwed on
- High reliability by robust construction
- Small size (40 mm x 15 mm) and high performance
- 2D code marking for individual resistance information is possible
- Custom specific shapes on request
- EU-RoHS compliant
- AEC-Q200 qualified

Ratings

Type	Size L x W x t (mm)	Resistance Value & Tolerance	Rated Power (Rated Current)	T.C.R.	Rated Terminal Part Temperature
HSAN2P4022M5	40 x 22 x 2	NEW 50 µΩ ±5 %	50 W (1000 A)	75±50 ppm/K*	+105 °C
HSAN2P8022M8	80 x 22 x 2				
HSAN2P4015M5	40 x 15 x 2	100 µΩ ±5 %	36 W (600 A)	50±25 ppm/K**	
HSBN2P8018M8	80 x 18 x 2				
HSAN2P4015M5	40 x 15 x 1	200 µΩ ±5 %	18 W (300 A)		

* +25 / +125 °C ** +25 / +100 °C

Operating Temperature Range: -65 °C ~ +175 °C

For more information, please contact:
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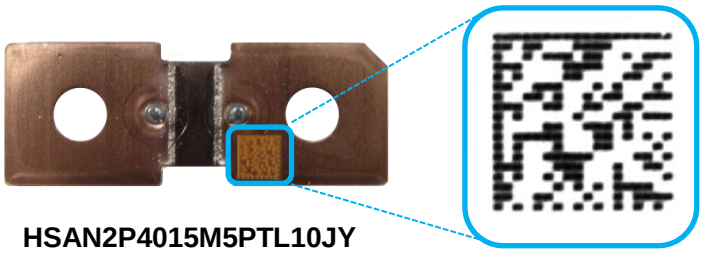
Special Feature: 2D - Data Matrix Code (optional – 25 digits max.)

Content Examples

- Resistance value
- Customer part number
- Part name
- Lot number
- TCR



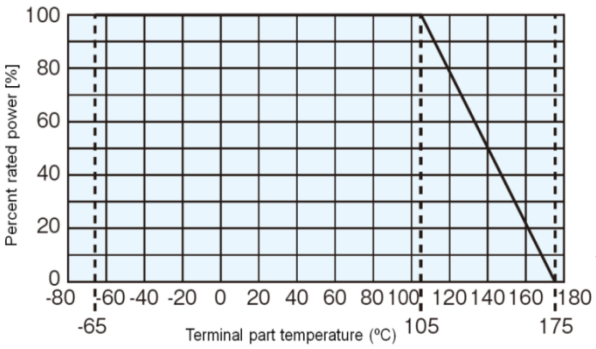
HSAN2P4015M5PTL10JY

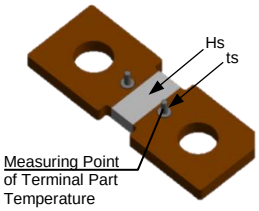
Application Examples

- Automotive and Industrial devices
- EV / HEV
- Battery Monitoring
- DC-DC Converters
- Home Energy Management
- Building Energy Management

The actual resistance value of each individual part can be displayed in the 2D data matrix code. Measuring accuracy 0.01 µΩ.

Derating Curve





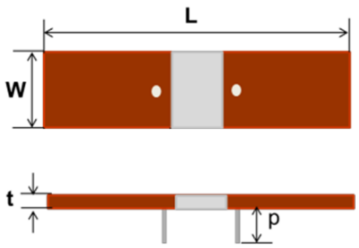
Thermal Resistance

Type	Resistance Value	Rth
HSAN2P4022	50 µΩ	0.57 K/W
HSAN2P8022		0.51 K/W
HSAN2P4015	100 µΩ	1.2 K/W
HSBN2P8018		
HSAN2P4015	200 µΩ	2.3 K/W

Rth = (Hs-ts) / Power

Size Capability

Besides the basic types shown on the reverse, also other custom specific shapes are available upon request. Below are the outlines for the HS-series.
If bending or other dimensions are required, please refer to KOAs **"Shunt on Busbar"**.



[mm]

Type	Resistance Value	L	W	t	P
HS	50 µΩ	40 ~ 80	18 ~ 36	2	4 or 10
	100 µΩ	35 ~ 80	15 ~ 18		
	200 µΩ			1	

Screwed hole (Ø3~8.3mm)
Voltage pin (Ø1mm)

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