

600 A – Large Current Shunt

NEW



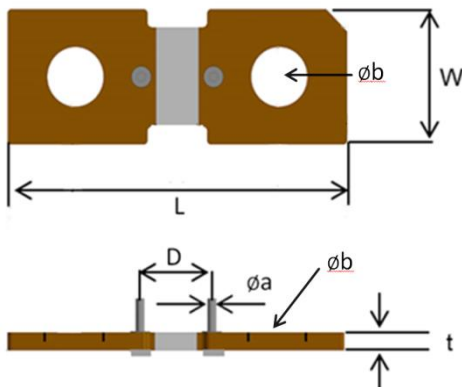
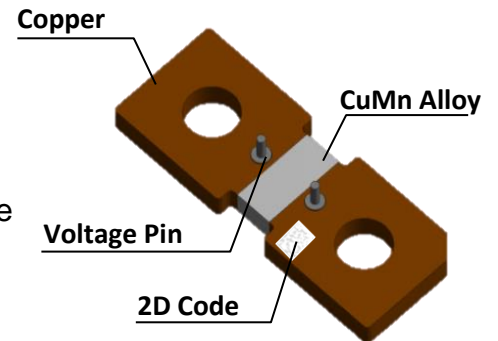
HS-Series



The new HS series from KOA is ideal for sensing currents up to 600 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 100 $\mu\Omega$
- High accuracy sensing with dedicated detection terminals
- 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



Dimensions of Basic Type (0.1 m Ω)

HSAN2P4015M5PTL10J [mm]

R-value	L	W
100 $\mu\Omega$	40 \pm 0.25	15 \pm 0.25

D	ϕa	ϕb	t
8.5 \pm 0.2	1.0 \pm 0.2	5.4 \pm 0.1	2.0 \pm 0.2

Ratings

Type	Resistance Value	Current Rating	Power Rating	Rated Terminal Part Temperature	Resistance Tolerance	T.C.R. (+25/+100 °C)
HSAN2P	100 $\mu\Omega$	600 A	36 W	+105 °C	\pm 5%	50 \pm 25 ppm/K**
	200 $\mu\Omega$ *	300 A*	18 W*			

* Under Development (MP: 2018)

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

** Using Voltage Pins

For more information, please contact:

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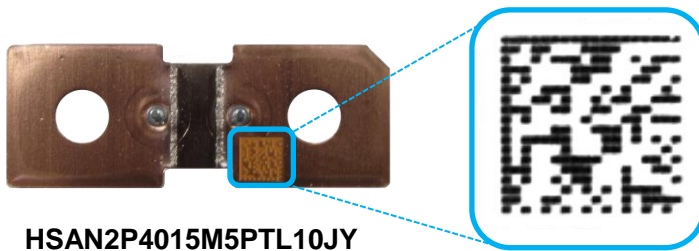
Special Feature 2D Code (optional)

Content Examples

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

Application examples

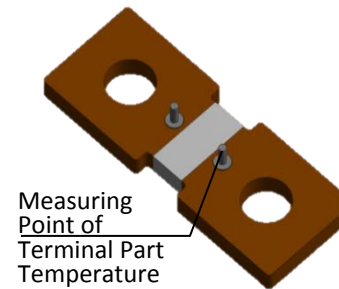
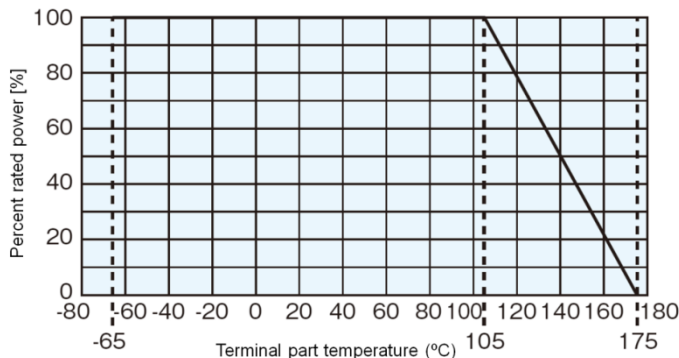
- EV / HEV
- Battery Monitoring
- Home Energy Management
- Building Energy Management
- etc.



HSAN2P4015M5PTL10JY

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

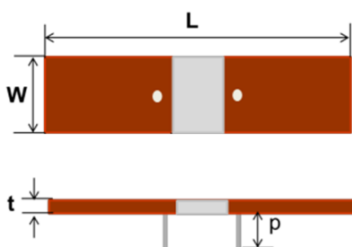
Derating Curve



Size Capability

Besides the basic type 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”.



Type	Resistance Value	L	W	t	p
HS	100 $\mu\Omega$ 200 $\mu\Omega^*$	35 ~ 80	15 ~ 18	2 1*	4 or 10

* Under Development (MP: 2018)

Screwed hole (\varnothing 3~8.3mm)
Voltage pin (\varnothing 1mm)

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