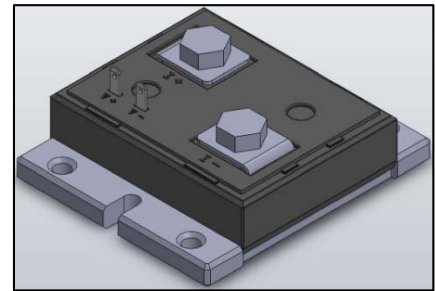


## High Power Precision Shunt Resistor

- Up to 250W on heat sink  
(Forced cooling , Terminal temp. & copper flange temp.  $\leq +60\text{C}$ )
- Max. current limit 387 A (At.  $1\text{m}\Omega$ )
- Excellent long term stability & short term stability
- Low temperature coefficient of resistance(TCR)
- High current sensing & reference resistors in laboratories.
- Charge – discharge test equipment for high capacity batteries
- Current sources & laboratory power supplies



### GENERAL SPECIFICATIONS

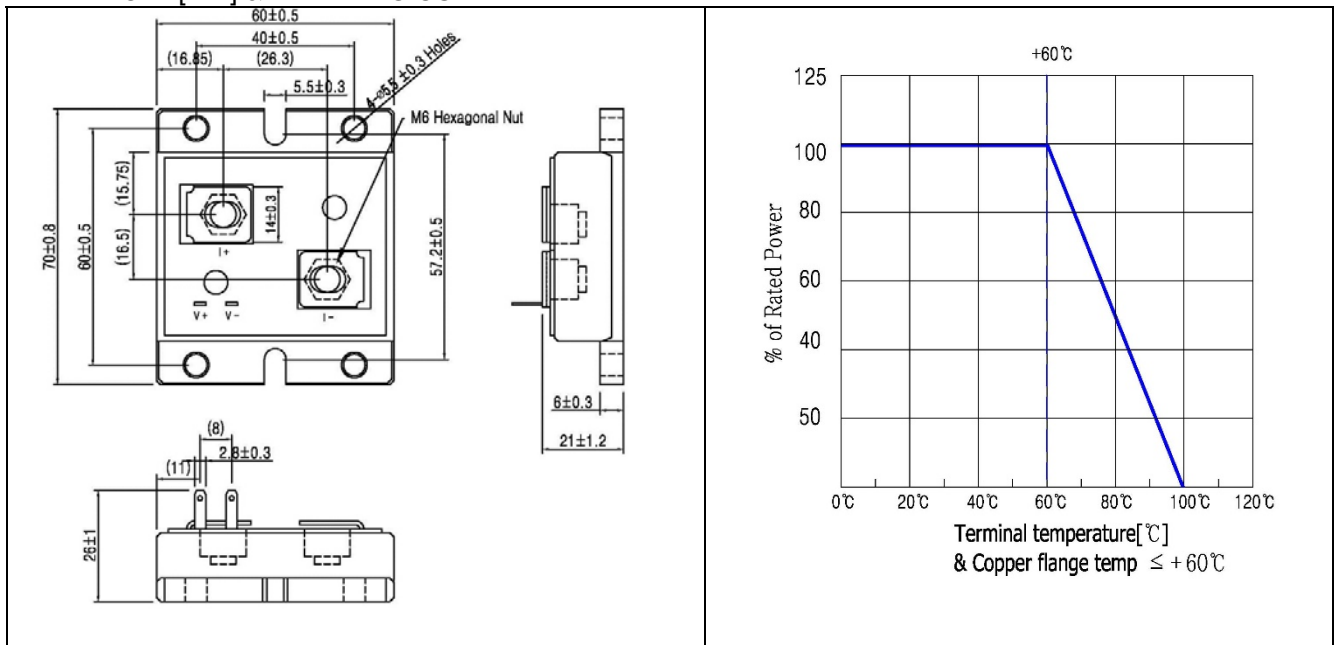
Model	*Rated Power [W]	**Resistance value [ $\text{m}\Omega$ ]	Tolerance [%]	Short term stability[%]
HPS	250	1, 2, 5, 10, 20, 50, 100	$\pm 0.05\text{(A)}$ , $\pm 0.1\text{(B)}$ $\pm 0.5\text{(D)}$ , $\pm 1.0\text{(F)}$	$\leq \pm 0.02$ / $\leq \pm 0.03$ $\leq \pm 0.05$ / $\leq \pm 0.1$

\*: Terminal temp.&copper flange temp.  $\leq +60\text{C}$  \*\*: The resistance values of 20/50/100m $\Omega$  are under development

### CHARACTERISTICS

Applicable temperature range	-55C ~ +100C
Rated power	250[W]
Resistance values	1,2,5,10,20,50,100 [ $\text{m}\Omega$ ]
Tolerance	A( $\pm 0.05\%$ ) / B( $\pm 0.1\%$ ) / D( $\pm 0.5\%$ ) / F ( $\pm 1\%$ )
Max. working current	387A at 1m $\Omega$
Dielectric withstanding voltage	AC 500V for 1Min. (Max. leakage current 2m A)
TCR	Max. $\pm 5$ [ppm/C]
Short term Stability	Current load for 1hour at terminal temp & copper flange temp. $\leq +60\text{C}$ $\Delta R \leq \pm 0.02\% / \leq \pm 0.03\% / \leq \pm 0.05\% / \leq \pm 0.1\%$
Long Term Stability	$\leq \pm 0.2\%$ after 1,000 hours (Terminal temp $\leq +60\text{C}$ and copper flange. temp $\leq +60\text{C}$ )

### DIMENSIONS[mm] & DERATING CURVE



### ORDERING PROCEDURE

# Model	# Resistance value ex) 1m $\Omega$	# Tolerance [%] A : $\pm 0.05\%$ / B : $\pm 0.1\%$ D : $\pm 0.5\%$ / F : $\pm 1.0\%$	# TK [ ppm/°C ] 3, 5