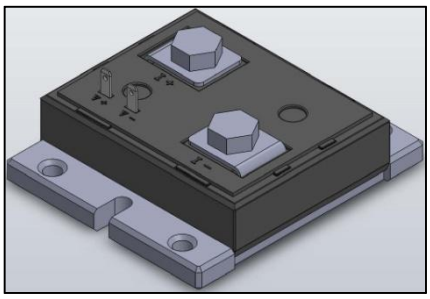
Tel: 82-32-817-4325
Fax: 82-32-817-4329

Resistors And
Resistive Applications

High Power Precision Shunt Resistor [Preliminary version]

- Up to 250W on heat sink
  (Force air cooling condition, Terminal temp≤+70C)
- Max. current limit 387 A (At. 1mΩ)
- 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

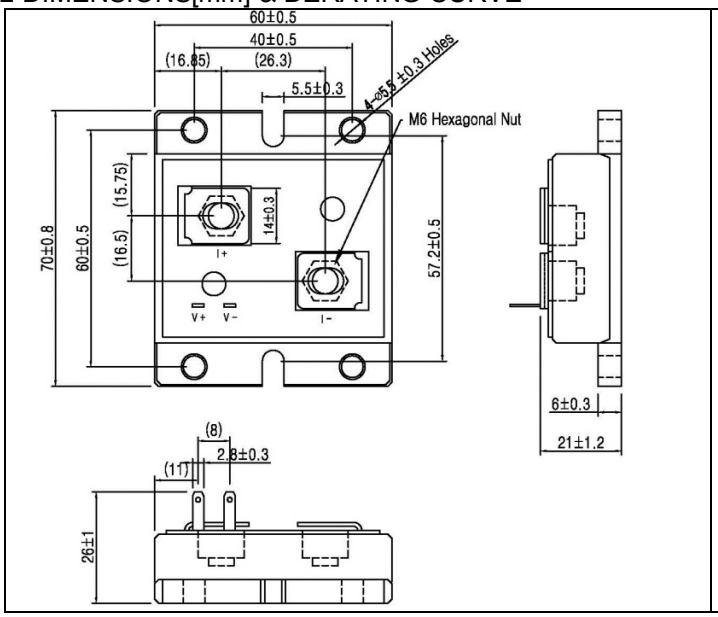
Model	*Rated Power [W]	**Resistance value [mΩ]	Tolerance [%]	Short term stability[%]
HPS	250	1, 2, 5, 10, 20, 50,100	±0.05(A), ±0.1(B) ±0.5(D), ±1.0(F)	≤±0.02 / ≤±0.03 ≤±0.05 / ≤±0.1

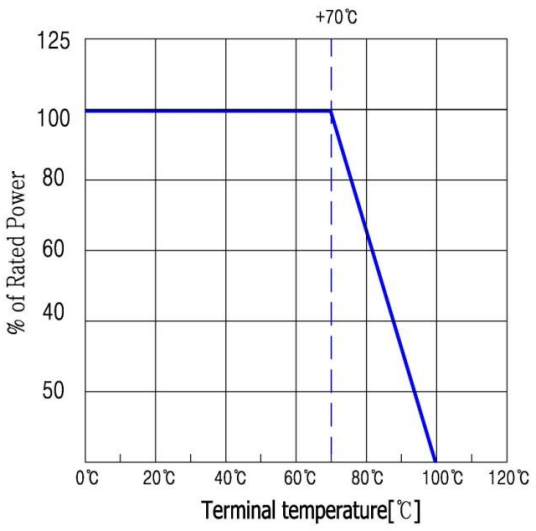
*: Terminal temp. ≤ +70C **: The resistance values of 2/5/20/50/100mΩ are under development

■ CHARACTERISTICS

Applicable temperature range	-55C ~ +100C
Rated power	250[W]
Resistance values	1,2,5,10,20,50,100 [mΩ]
Tolerance	A(±0.05%) / B(±0.1%) / D(±0.5%)/ F (±1%)
Max. working current	387A at 1mΩ
Dielectric withstanding voltage	AC 500V (Max. leakage current 2m A)
TCR	Max.±5 [ppm/C] (+20C and +80C)
Thermal resistance to copper base plate	R(thi) < 0.2[C/W] (Resistive element /Copper base plate)
Short term Stability	Current load for 1hour at terminal temp ≤+70C ΔR ≤±0.02%/≤±0.03%/≤±0.05%/≤±0.1%
Long Term Stability	≤±0.2[%] after 2,000 hours (Terminal temp≤+70C and element temp≤+100C)

■ DIMENSIONS[mm] & DERATING CURVE





■ ORDERING PROCEDURE