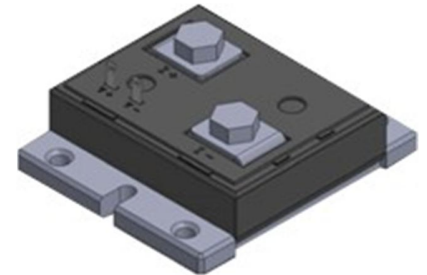




**RARA
ELECTRONICS
CORPORATION**

(100BL-11L) 666-19 Kojan-Dong, Namdong-Gu
Incheon, South Korea 405 310
Tel: 82-32-817-4325, Fax: 82-32-817-4329
Web: www.raraohm.com, Email: sg@raraohm.com

High Power Precision Shunt Resistor



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

GENERAL SPECIFICATIONS

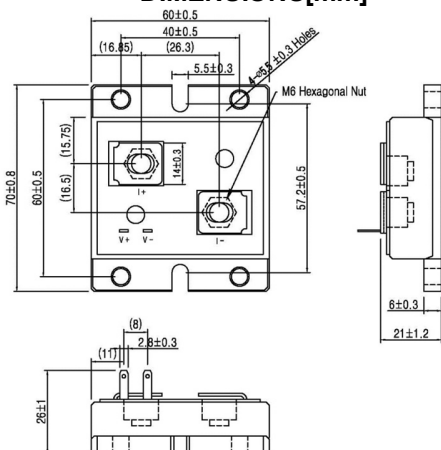
Model	*Rated Power [W]	**Resistance value [m Ω]	Tolerance [%]	Short term stability[%]
HPS	250	1, 2, 5, 10, 20, 50,100	± 0.05 (A), ± 0.1 (B) ± 0.5 (D), ± 1.0 (F)	$\leq \pm 0.02$ / $\leq \pm 0.03$ $\leq \pm 0.05$ / $\leq \pm 0.1$

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

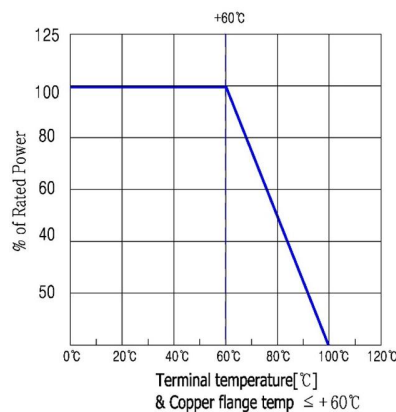
CHARACTERISTICS

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

DIMENSIONS[mm]



DERATING CURVE



ORDERING PROCEDURE



Model



Resistance value
ex) 1m Ω



Tolerance [%]
A : $\pm 0.05\%$ / B : $\pm 0.1\%$
D : $\pm 0.5\%$ / F : $\pm 1.0\%$



TK [ppm/°C]
3, 5