



Ultra High Power Precision Shunt Resistor

- Up to 100W on heat sink - (Forced cooling condition, Terminal temp. & Copper flange temp. $\leq 50^{\circ}\text{C}$) Max. current limit 707A (At. $0.2\text{m}\Omega$)
- Excellent short 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

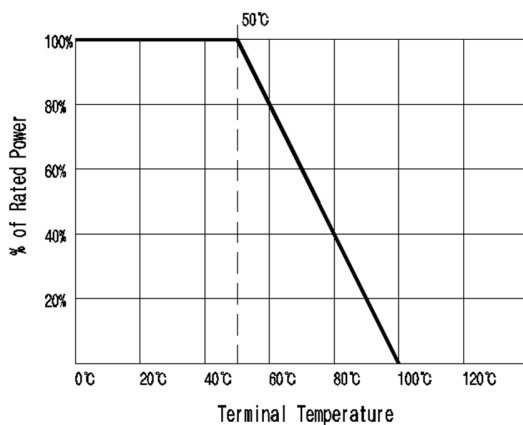
Model	*Rated Power	Resistance	Tolerance
UHPS	100W	$0.2\text{m}\Omega$, $1\text{m}\Omega$	A [$\pm 0.05\%$], B [$\pm 0.1\%$] D [$\pm 0.5\%$], F [1.0%]

* Terminal temp. & Copper flange temp. $\leq 50^{\circ}\text{C}$ on Heatsink

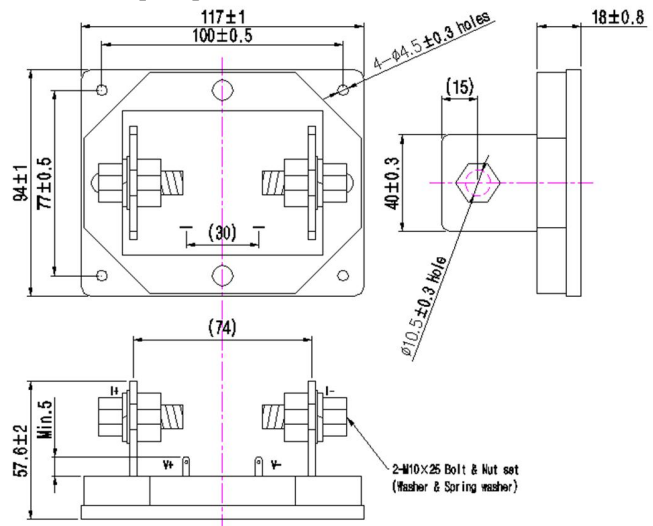
CHARACTERISTICS

Applicable temperature range	-55 $^{\circ}\text{C}$ ~+100 $^{\circ}\text{C}$
Max. working current	707A at $0.2\text{m}\Omega$
TCR	Max. $\pm 10\text{ppm}/^{\circ}\text{C}$
Dielectric withstanding voltage	AC 500V (Max. leakage current 2mA)
Short term stability	$\Delta R \leq 0.1\%$ Current load for 1hr. at terminal temp. & Copper flange temp. $\leq 50^{\circ}\text{C}$

DERATING CURVE



DIMENSIONS [mm]



ORDERING PROCEDURE

UHPS	R0002	A	TK10
#Model	Resistance Value Ex) R0002 = $0.2\text{m}\Omega$ R0010 = $1.0\text{m}\Omega$	Tolerance A : $\pm 0.05\%$ B : $\pm 0.10\%$ D : $\pm 0.50\%$ F : $\pm 1.00\%$	TK [ppm/ $^{\circ}\text{C}$] 10ppm/ $^{\circ}\text{C}$