



Ultra High Power Precision Shunt Resistor [Preliminary version]

- Up to 100W on heat sink (Forced cooling condition, Terminal temp. $\leq 70^\circ\text{C}$ & Aluminum case temp. $\leq 60^\circ\text{C}$)
- Max. current limit 707A (At. $0.2\text{m}\Omega$)
- Excellent short term stability
- Low temperature coefficient of resistance (T.C.R)
- High current sensing & reference resistors in laboratories.
- Charge – discharge test equipment for high capacity batteries
- Current sources & laboratory power supplies



■ GENERAL SPECIFICATIONS

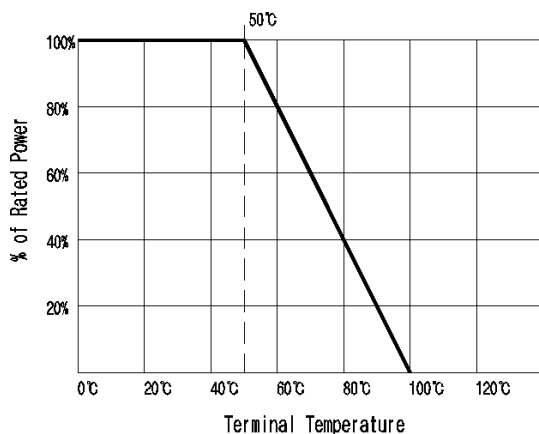
Model	*Rated Power	Resistance	Tolerance
UHPS	100W	$0.2\text{m}\Omega$, $1\text{m}\Omega$	A [$\pm 0.05\%$], B [$\pm 0.1\%$] D [$\pm 0.5\%$], F [1.0%]

* Terminal temp. $\leq 70^\circ\text{C}$ & Aluminum case temp. $\leq 60^\circ\text{C}$ on Heatsink

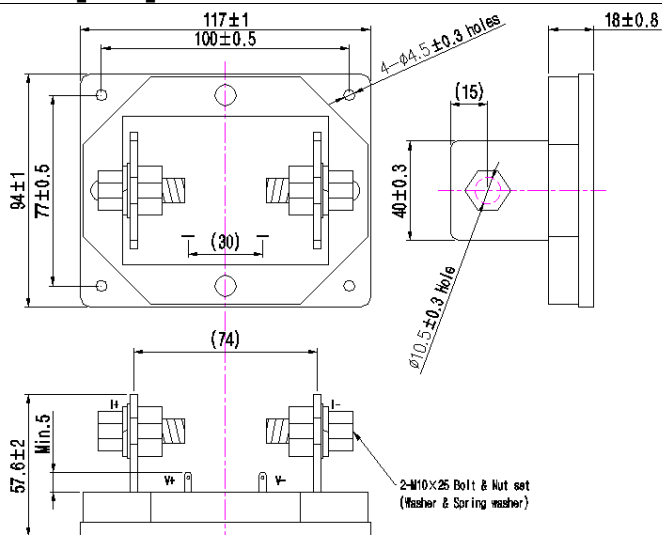
■ CHARACTERISTICS

Applicable temperature range	$-55^\circ\text{C} \sim +100^\circ\text{C}$
Max. working current	707A at $0.2\text{m}\Omega$
Temperature Coefficient Resistance	Max. $\pm 10\text{ppm}/^\circ\text{C}$
Dielectric withstanding voltage	AC 500V (Max. leakage current 2mA)
Short term stability	Current load for 1 hour at terminal temperature $\leq 70^\circ\text{C}$, $\Delta R \leq 0.1\%$

■ DERATING CURVE



■ DIMENSION [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 [$\text{ppm}/^\circ\text{C}$] 10ppm/ $^\circ\text{C}$