

PSS

Precision Power Shunt Resistors

- Resistance from 50uOhm to 1mOhms
- Power Rating to 100Watt
- Resistance Tolerance to $\pm 0.1\%$
- TCR to $\pm 5\text{ppm/K}$



GENERAL SPECIFICATIONS (Fig.1)

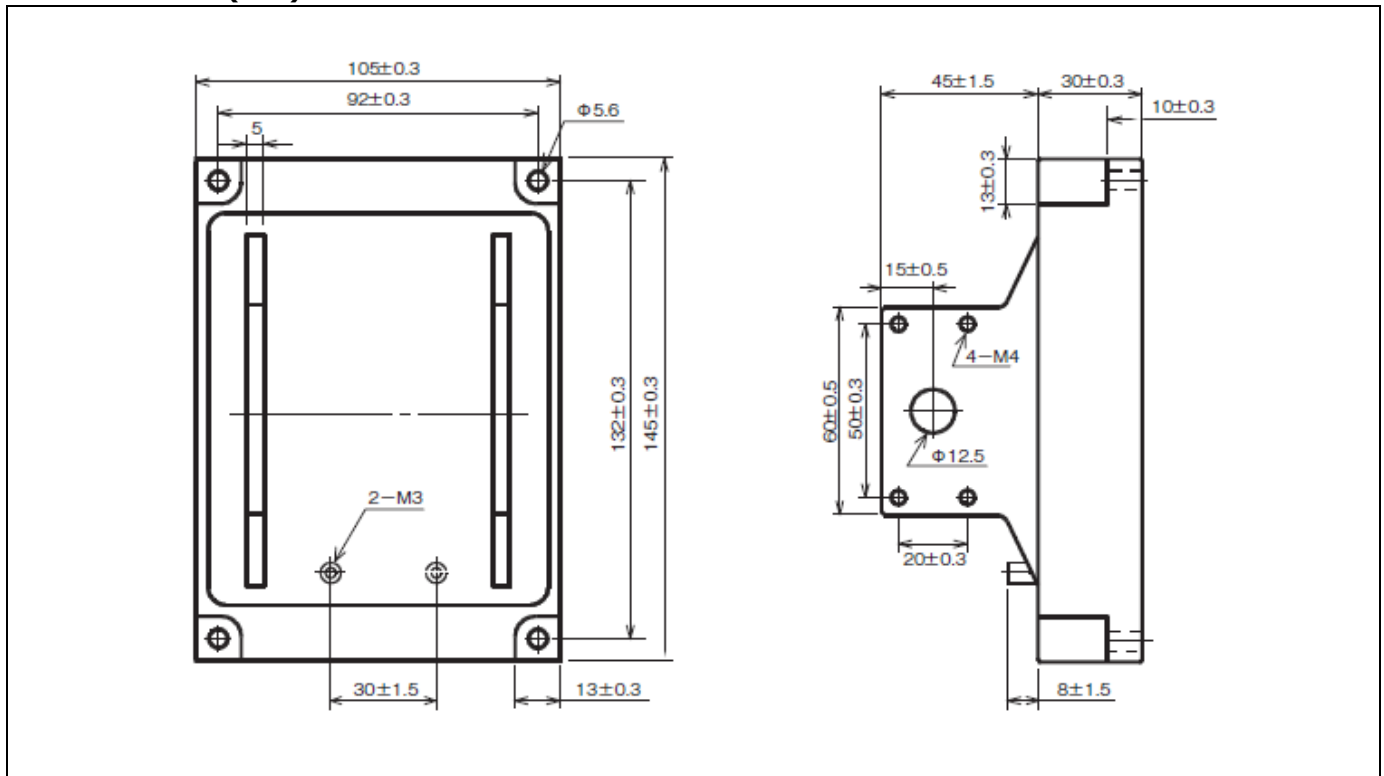
Model	Power Rating		Resistance	Tolerance	T.C.R (20°C~60°C)	Thermal EMF (0~100°C)	Operating Temperature
	Chassis Mounted	Free Air					
PSS	100W	40W	50uΩ, 0.1mΩ, 0.2mΩ, 0.5mΩ, 1mΩ	$\pm 0.1\%$ $\pm 0.5\%$ $\pm 1.0\%$	$\pm 5 \text{ ppm/}^\circ\text{C}$ $\pm 10 \text{ ppm/}^\circ\text{C}$	2 Uv/°C Max	-55°C~+125°C

- Max. Current : 1400A (50uΩ)
- Restriction on Temp. of Resistance Element : $\pm 125^\circ\text{C}$
- Internal Thermal Resistance : 0.4°C/W (100uΩ)

CHARACTERISTICS

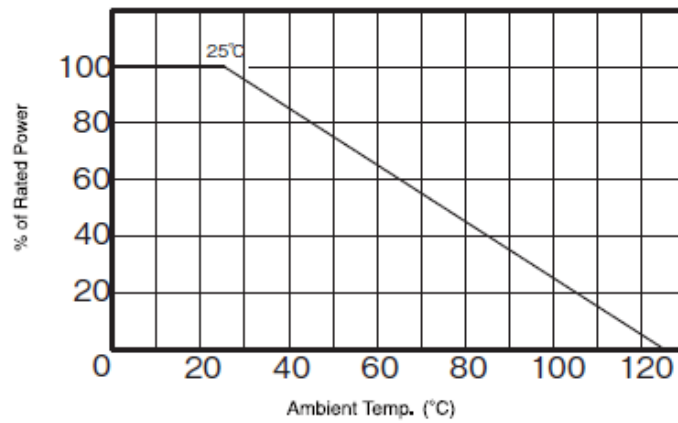
Short Time Overload	$\pm 0.05\%$	2 x Power rating, 5sec.
High Temperature Exposure	$\pm 0.05\%$	Temp. +85°C, 1000hr. (Moisture 85%)
Dielectric Strength	$\pm 0.02\%$	AC 1000V for 1min.
Insulation Resistance	1GΩ	DC 500V
Temp. Coefficient	Fig.1	Standard Temp. +25°C, Test Temp. +100°C
Load Life	$\pm 0.2\%$	Load Rating 1.5hr On, 0.5hr Off, Repeat 2000hr

DIMENSIONS (mm)

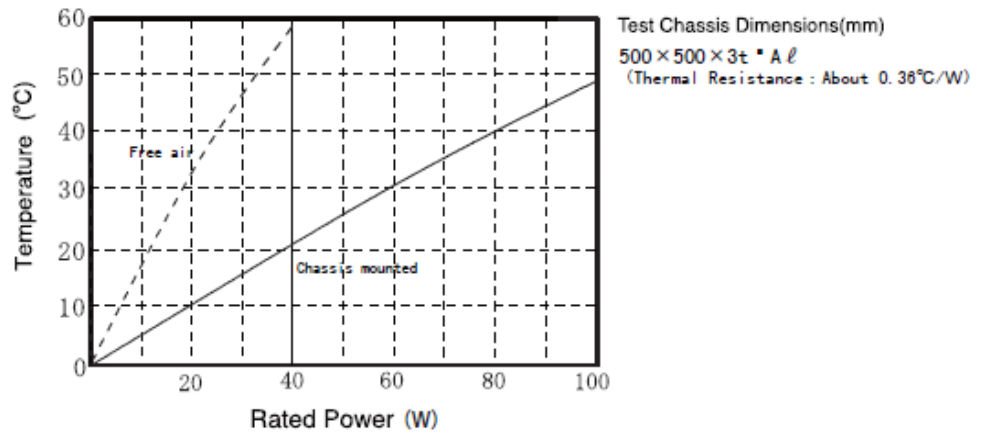




■ DERATING CURVE



■ SURFACE TEMPERATURE VERSUS POWER LOAD



■ ORDERING PROCEDURE EXAMPLE

<u>PSS</u>	<u>50 μ Ω</u>	<u>B</u>	<u>TC05</u>
Type	Resistance	Tolerance	Temp.Coefficient
	50 μ Ω 100 μ Ω 200 μ Ω 500 μ Ω 1000 μ Ω	B : ±0.1% D : ±0.5% F : ±1%	TC05 : ±5ppm/°C TC10 : ±10ppm/°C