

SPECIFICATION

1. Drawing number	SH-D6037
2. Rated Current	1~150A
3. Output voltage	60mV
4. Accuracy	± 1%
5. Continuous use of current	≤ 2/3 of rated current
6. Temperature Coefficient	± 20 ppm / °C
7. Ambient temperature	0 ~ 60 °C
8. Material	Resistance bars: manganin End blocks: high conductivity brass Base : Bakelite

GENERAL INFORMATION:

Shunt is a resistor designed to be connected in parallel with a measuring device. The shunt is used for current measurement beyond the measuring devices range.

CONTINUOUS OPERATION:

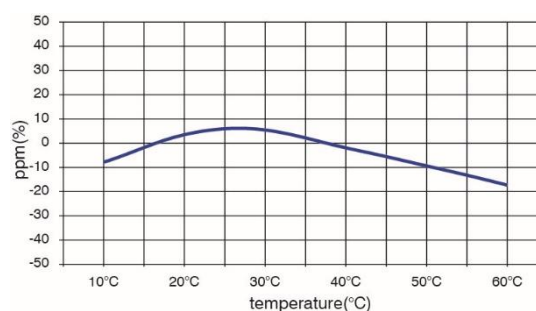
For continuous operation, it is recommended that shunts are not run at more than two-thirds (2/3) the rated current under normal conditions of use as per IEEE standards.

The shunt is defined as a resistive element. and will generate heat with passage of current, but even so, under no condition should the material exceed 145°C, as this will cause a permanent change in resistance. When the ambient temperature exceeds 40°C, the current must be further derated to prevent damage.

MOUNTING:

- Shunt should be mounted in a vertical position to promote free convection flow of air. Where the shunt is in a confined location , forced air cooling should be provided.
- Mounting plate for input current should be fully contacted and bolted tightly over brass blocks to avoid temperature increase because of improper contact.
- Installation may be required the use of long wire leads for measurement , and longer leads will cause additional voltage drops.

Characteristics of Manganin



*Applies to resistance element only