

GENERAL-PURPOSE POWER SHUNT RESISTORS

RXM

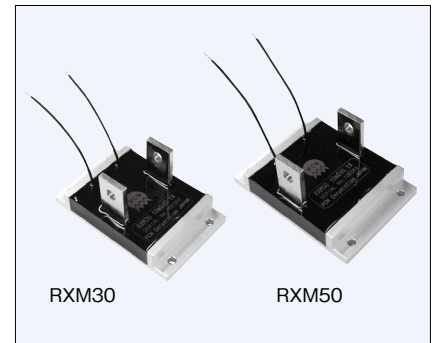
Features

- General-purpose power shunt resistor with 4-terminal structure developed for power conditioner of solar power generation
- Precision resistance rod (manganin) used as the resistance element, making it ideal for current sensing applications

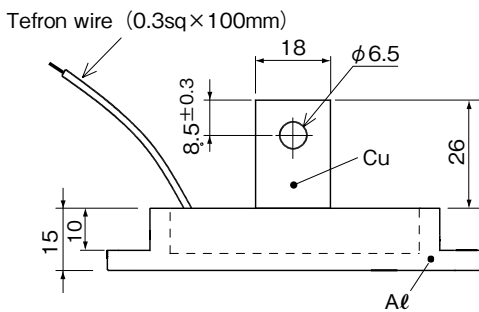
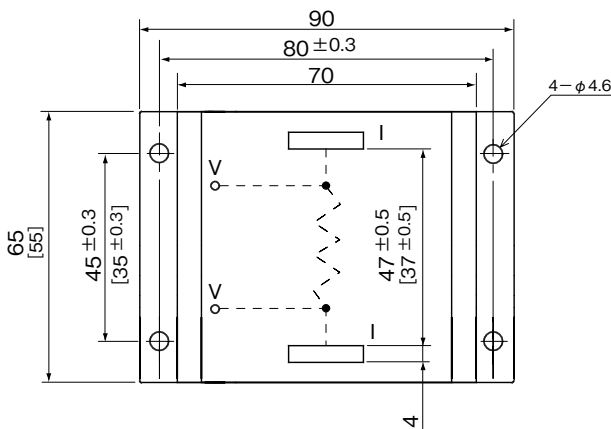
Max. Current (Continuous) : 220A (RXM50 1mΩ)

Type	Wattage Rating (W)		Standard Resistance (Ω)	Tolerance (%)	Temp. Coefficient (25°C~100°C)	Thermal EMF (0~100°C)
	Chassis Mounted	Free air				
RXM30	30	15	1m, 2m, 5m 10m, 20m	±0.05 (A) ±0.1 (B) ±0.5 (D) ±1 (F)	±30ppm/°C	2μV/°C MAX
RXM50	50	20	50m, 100m			

Operating Temp. -50°C~+125°C
 Weight : RXM30 185g
 RXM50 215g



Dimensions []:RXM30



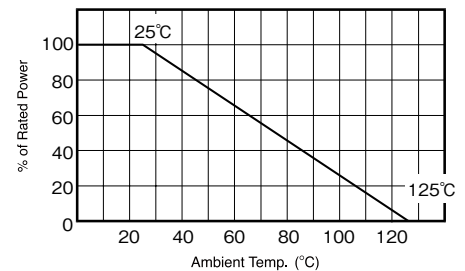
Performance

Parameters	Test Condition	Specification
Dielectric Strength	AC1000V 1min.	±0.02%
Insulation Resistance	DC500V	1000MΩMIN
Short Time Over Load	2×Wattage Rating 5sec	±0.05%
High Temperature Exposure	Temp.+85°C 1000Hr (Moisture 85%)	±0.05%
Load Life	Load Rating 1.5Hr ON 0.5Hr OFF Repeat 2000Hr	±0.2%

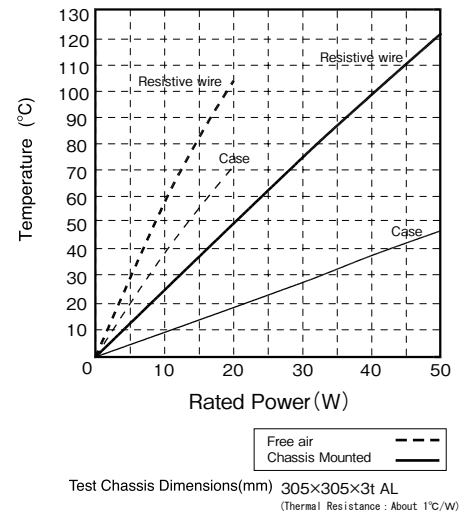
Standard Resistance (Stock)

- RXM50 1mΩA (±0.05%)
- RXM50 5mΩA (±0.05%)
- RXM50 10mΩA (±0.05%)

Power Derating Curve



Surface Temp. Versus Power Load. (RXM50 1mΩ)



Chassis Mounted AWG4 Cable 2 × 2
 Free Air AWG4 Cable 1 × 2

Precautions

This RXM series is designed for mounting on chassis and note the followings.

- (1) Select a chassis of which resistor mounting area is free from asperity and good for surface adhesion. Also, apply grease with good thermal conductivity between the chassis and the resistor.
- (2) When using in a vibrating environment, the vibration will be transmitted through the connection cable and can cause damage to the terminals. Install relay terminals so that vibrations are not transmitted to the terminals of the resistor directly.

How to order

RXM50	1mΩ	A
Type	Resistance	Tolerance

●Order for a single piece acceptedd

