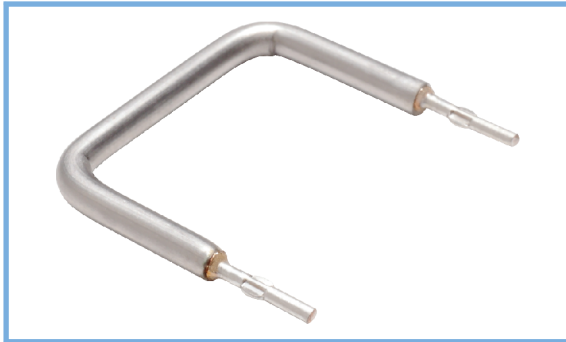


PRECISION CURRENT SENSING RESISTORS

精密型電流精測電阻器



Features

1. Low inductance.
2. Low temperature coefficient.
3. Very low resistance value.
4. Resistance tolerance : $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 5\%$.
5. Suitable for all kinds current sense application.

特色

1. 低感性。
2. 低溫度係數。
3. 超低電阻值範圍。
4. 高精密電阻值： $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 5\%$ 。
5. 適合各種類型的電流感應器之應用。

ELECTRICAL AND MECHANICAL PERFORMANCE

電氣及機械特性

特性 Characteristics	規格值 Standards	試驗方法 Test Methods
阻值容許誤差 Resistance Tolerance	$\pm 5\%$ (J)、 $\pm 2\%$ (G)、 $\pm 1\%$ (F)	-
溫度係數 Resistance Temp. Coeff.	± 100 ppm / °C	-55°C ~ 200°C
額定負載 Power Rating Load	Surface temp. 275°C Max. 最高表面溫度 275°C, $\Delta R/R \leq \pm 1\%$	Rated voltage for 30 minutes 額定電壓 / 30分鐘
電感量 Inductance	< 10nH	-
焊錫性 Solder-ability	Minimum 95% coverage 焊錫面積 $\geq 95\%$	235°C ± 5 °C for 2 seconds
浸錫耐熱性 Resistance to Soldering Heat	No evidence of mechanical damage. 無機械性能損壞現象, $\Delta R/R \leq \pm 1\%$	270 ± 5 °C for 10 ± 1 seconds 350 ± 10 °C for 3.5 ± 0.5 seconds

ENVIRONMENTAL CHARACTERISTICS

耐環境特性

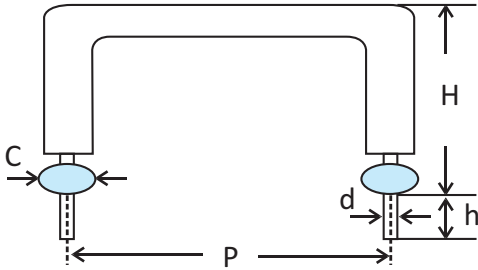
特性 Characteristics	規格值 Standards	試驗方法 Test Methods
溫度週率 Temp. Cycle	$\Delta R/R \leq \pm 1\%$	-55°C (30 min.) → Room Temp. (3 min.) → +200°C (30 min.) → Room Temp. (3 min.) / (5 cycles)
負載壽命 Load Life	$\Delta R/R \leq \pm 1\%$	Rated power load 90 minutes ON 30 minutes OFF 70°C 1000 hours
耐濕壽命 Moisture-proof Load Life	$\Delta R/R \leq \pm 1\%$	Rated power load 90 minutes ON 30 minutes OFF 40°C 95% RH 1000 hours

※ 參考規格 Reference Standards
JIS C 5201-1

Dimensions

尺寸

Unit : mm



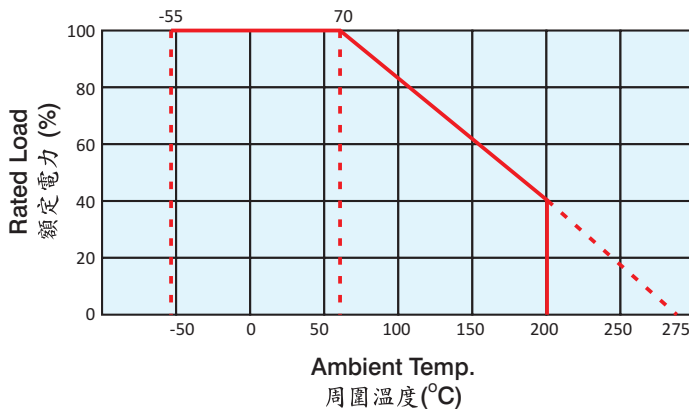
Rated Wattage	H(max.)	h±0.3	C±0.2	d±0.05	P±0.5	Resistance Range(mΩ)
1W	25	3.2	1.6	1	12	5~25
3W	25	3.2	1.6	1	15	5~25
5W	30	3.2	1.6	1	20	10~25

Note: Too low or too high ohmic values can be supplied only case by case.

Derating Curve

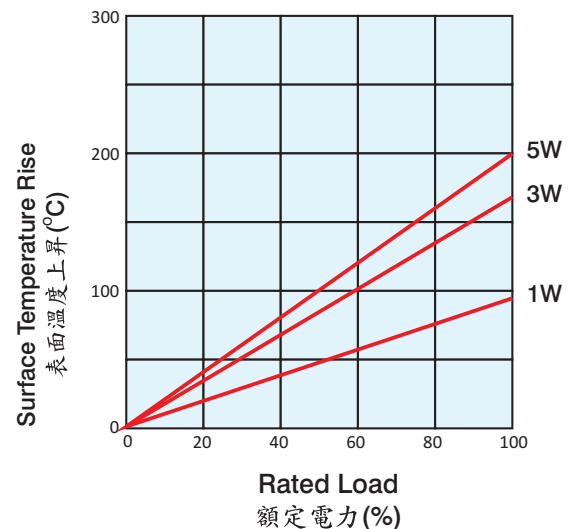
電力輕減曲線

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.



Surface Temperature Rise

表面溫度上昇曲線



How to order

訂貨方式

It is composed by Type, Rated Wattage, Nominal Resistance and Tolerance .

CSR 1W 10mR F
 a. b. c. d.

- a. : Type(種類) : Precision Current Sensing Resistors are called "CSR".
- b. : Rated Wattage(額定電力) : Shown by "W" ,such as 1W, 3W, 5W.
- c. : Nominal Resistance(公稱電阻值) : 10mΩ.
- d. : Tolerance(容許誤差): F= ±1% , G= ±2% , J= ±5% .