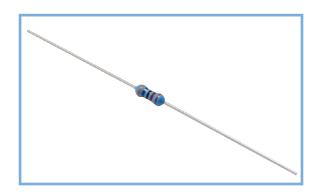


PRECISION METAL FILM RESISTORS

精密型金屬皮膜電阻器



Features

- 1. Low T.C.: 25ppm \ 50ppm \ 100ppm.
- 2. High precision : $\pm 0.25\% \times \pm 0.5\% \times \pm 1\% \times \pm 5\%$.
- 3. Temperature stable, low noise, good reliability.
- 4. 0.1% / 25ppm : case by case.

特色

- 1. 低溫度係數: 25ppm、50ppm、100ppm。
- 2. 高精密度: ±0.25%、±0.5%、±1%、±5%。
- 3. 溫度穩定,低雜音,可靠性良好。
- 4. 可客製化 0.1% / 25ppm。

ELECTRICAL AND MECHANICAL PERFORMANCE

電氣及機械特性

特性 Characteristics	規格値 Standards	試驗方法 Test Methods
阻值容許誤差 Resistance Tolerance	±1%(F) or ±0.5%(D)	-
溫度係數 Resistance Temp. Coeff.	±25 ppm / °C \ ±50 ppm / °C \ ±100 ppm / °C \	-65°C ~ 175°C
額定負載 Power Rating Load	Surface temp. 175°C Max. 最高表面溫度 175°C,△R/R≦±1 %	Rated voltage for 30 minutes 額定電壓 / 30分鐘
短時間過負載 Short Time Overload	±0.5%	2.5 times of rated valtage for 5 seconds. 2.5 倍額定電壓 / 5秒
耐電壓 Dielectric Withstanding Voltage	No evidence of mechanical damage or insulation breakdown. 無機械性能損壞及絕緣擊穿現象	Max. Overload Voltage for 1 min. 施加最高過負載電壓 1 分鐘 (RN 1 W & 1 WL : AC 350V ; RN 1/4 WS : AC 300V)
絶緣電阻 Insulation Resistance	10,000ΜΩ	DC 100V or 500V megger
端子強度 Terminal Strength	No evidence of mechanical damage. 無機械性能損壞現象	1 kg
焊錫性 Solder-ability	Minimum 95% coverage 焊錫面積 ≧ 95%	235±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,△R/R≦±1%	270±5°C for 10 ±1 seconds 350±10°C for 3.5 ±0.5 seconds

ENVIRONMENTAL CHARACTERISTICS

耐環境特性

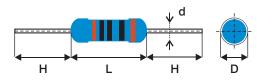
特性 Characteristics	規格値 Standards	試驗方法 Test Methods
溫度週率 Temp. Cycle	△R/R≦±0.25%	-65°C(30 min.) → Room Temp.(3 min.) → +175°C(30 min.) → Room Temp.(3 min.) / (5 cycles)
負載壽命 Load Life	△R/R≦±2%	Rated power load 90 minutes ON 30 minutes OFF 70°C 1000 hours
耐濕壽命 Moisture-proof Load Life	△R/R≦±1.5%	Rated power load 90 minutes ON 30 minutes OFF 40°C 95% RH 1000 hours
不燃性 Nonflammability	not flamed	16 times of rated wattage for 5 min. (RN 1W & RN 1WL).



Unit: mm

Dimensions

アオ



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Rated Wattage	D±1	L±1	H±3	d±0.1	Resistance Range(Ω)	Max. Working Voltage
1/8W	1.7±0.2	3.7max.	28	0.45	10~1M	150V
1/4WS	1.7±0.2	3.7max.	28	0.45	10~1M	200V
1/4W	2.4 ± 0.5	6.4	28	0.6	10~2M	250V
1/2WS	2.4 ± 0.5	6.4	28	0.6	10~2M	300V
0.6W	2.4 ± 0.5	6.4	28	0.6	10~2M	350V
1/2W	3.5	9	28	0.65	10~2M	350V
1W	4.5	11	28	0.8	10~2M	500V
1WL	5.0	15	28	0.8	10~2M	500V

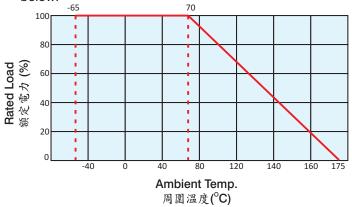
Note: 1. To prevent electric corrosion, the resistance over $100K\Omega$ should be limited at 50V.

- 2. Too low or too high ohmic values can be supplied only case by case.
- 3. Max. Overload Voltage is 2 times of Max. Working Voltage.
- 4. RN 1W & RN 1WL is coated by flameproof paint.

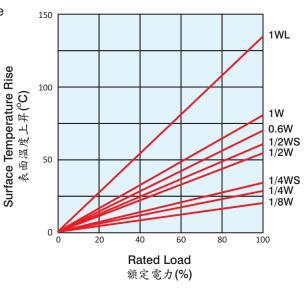
Derating Curve

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, Tolerance, Temperature Coefficient and Package. e.g.

RN	1/4W	10Ω	F	50ppm	T/B
a.	b.	C.	d.	e.	f.

- a.: Type(種類): Precision Metal Film Resistohrs are Called "RN".
- b.: Rated Wattage(額定電力): Shown by "W", such as 1/8W,1/4WS, 1/4W,1/2WS,0.6W,1/2W,1W,1WL.
- c.: Nominal Resistance(公稱電阻值): 10Ω.
- d.: Tolerance(容許誤差): ±0.5%(D), ±1%(F).
- e.: Temperature Coefficient (溫度係數): ±25ppm/°C, ±50ppm/°C, Nil: ±100ppm/°C
- f.: Package (包裝方式):

T/R=tape & reel (捲裝); T/B=tape in box(帶裝); Nil=Bulk(散裝).

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Click to view products by Tyohm manufacturer:

Other Similar products are found below:

FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA H87K5DYA RLR05C1501GPB14 RLR05C6201GS RLR20C3240FRB14 RLR20C51R0GMB14 RLR32C7R50FMB14 RNC55H4642FPB14 HR01623J HR01682J 270-1.69M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F51R LR2F910R ERX-2SZJR20E SQMR74K7J FMF-25FTF52-100K FRN50J100RS FRN50J470RS H4100RBZA H414R3BZA