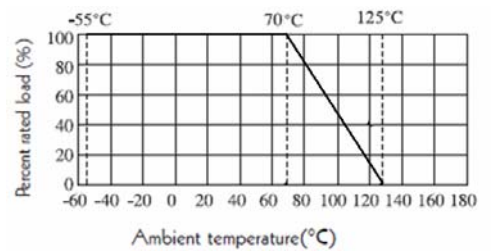




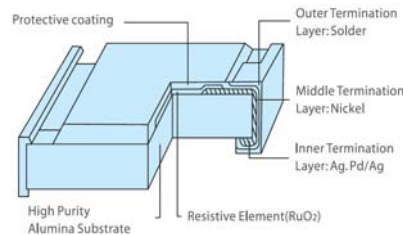
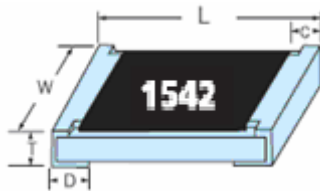
● 特性 Feature

- 薄膜鎳鉻阻抗元件
Thin film NiCr Resistance element
- 精密的誤差從±0.01%~±0.5%
Very tight tolerance from ±0.01%~ ±0.5%
- 極低的溫度係數±5~±50PPM/°C
Extremely low TCR from ±5~±50 PPM/°C

● 降功率曲線 Derating Curve



● 形狀 & 構造 Figures & Construction



● 尺寸 Dimension

| Type | | TC 02 (0402 size) | TC 03 (0603 size) | TC 05 (0805 size) | TC 06 (1206 size) | TC 10 (2010 size) | TC 12 (2512 size) |
|-------------------|---|----------------------|--|--|--|--|--|
| Dimension (mm) | L | 1.00 ± 0.10 | 1.60 ± 0.10 | 2.00 ± 0.15 | 3.10 ± 0.15 | 5.00 ± 0.10 | 6.35 ± 0.10 |
| | W | 0.50 ± 0.05 | 0.80 ^{+0.15} _{-0.10} | 1.25 ^{+0.15} _{-0.10} | 1.55 ^{+0.15} _{-0.10} | 2.50 ^{+0.15} _{-0.10} | 3.20 ^{+0.15} _{-0.10} |
| | T | 0.35 ± 0.05 | 0.45 ± 0.10 | 0.55 ± 0.10 | 0.55 ± 0.10 | 0.55 ± 0.10 | 0.55 ± 0.10 |
| | C | 0.20 ± 0.10 | 0.30 ± 0.20 | 0.40 ± 0.20 | 0.45 ± 0.20 | 0.60 ± 0.25 | 0.60 ± 0.25 |
| | D | 0.25 ± 0.10 | 0.30 ± 0.20 | 0.40 ± 0.20 | 0.45 ± 0.20 | 0.50 ± 0.20 | 0.50 ± 0.20 |

● 性能和測試要求 Specification And Test Methods

| | |
|---------------------------------|---|
| Short-time overload | $\Delta R \leq \pm(0.5\% + 0.05\Omega)$ |
| Insulation resistance | $\geq 1,000$ Mega Ohm |
| Dielectric withstanding voltage | No evidence of flashover, mechanical damage, arcing or insulation breakdown |
| Terminal bending | $\pm(0.25\% + 0.05\Omega)$ Max. |
| Soldering heat | $\pm(0.25\% + 0.05\Omega)$ Max. |
| Solder ability | Min 95% coverage |
| Humidity (Steady State) | $\Delta R \leq \pm(0.3\% + 0.1\Omega)$ |
| Load life | $\Delta R \leq \pm(0.2\% + 0.1\Omega)$, $>7K\Omega$ $\Delta R \leq \pm(0.5\% + 0.1\Omega)$ |



● 性能 Specification

| Type | Power rating (70°C) | Operating Temperature | Max.Working Voltage | Max.Overload Voltage | Resistance Tolerance | Resistance Range | TCR (ppm/°C) |
|----------------------|------------------------|--------------------------|------------------------|-------------------------|------------------------------------|---------------------|-----------------|
| TC 02 (0402 size) | 1/16W | -55~+125°C | 25V | 50V | ±0.01% ±0.25% ±0.1% ±0.5% | 100Ω~2KΩ | ±5 ppm/°C |
| | | | | | | 50Ω~12KΩ | ±10 ppm/°C |
| | | | | | | 10Ω~100KΩ | ±25 ppm/°C |
| | | | | | | 10Ω~100KΩ | ±50 ppm/°C |
| TC 03 (0603 size) | 1/16W | -55~+125°C | 50V | 100V | ±0.01% ±0.25% ±0.1% ±0.5% | 100Ω~4KΩ | ±5 ppm/°C |
| | | | | | | 50Ω~50KΩ | ±10 ppm/°C |
| | | | | | | 10Ω~332KΩ | ±25 ppm/°C |
| | | | | | | 10Ω~332KΩ | ±50 ppm/°C |
| TC 05 (0805 size) | 1/10W | -55~+125°C | 100V | 200V | ±0.01% ±0.25% ±0.1% ±0.5% | 100Ω~10KΩ | ±5 ppm/°C |
| | | | | | | 50Ω~100KΩ | ±10 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±25 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±50 ppm/°C |
| TC 06 (1206 size) | 1/8W | -55~+125°C | 150V | 300V | ±0.01% ±0.25% ±0.1% ±0.5% | 100Ω~15KΩ | ±5 ppm/°C |
| | | | | | | 50Ω~200KΩ | ±10 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±25 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±50 ppm/°C |
| TC 10 (2010 size) | 1/4W | -55~+125°C | 150V | 300V | ±0.01% ±0.25% ±0.1% ±0.5% | 100Ω~25KΩ | ±5 ppm/°C |
| | | | | | | 50Ω~200KΩ | ±10 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±25 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±50 ppm/°C |
| TC12 (2512 size) | 1/2W | -55~+125°C | 150V | 300V | ±0.01% ±0.25% ±0.1% ±0.5% | 100Ω~25KΩ | ±5 ppm/°C |
| | | | | | | 50Ω~200KΩ | ±10 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±25 ppm/°C |
| | | | | | | 4.7Ω~1MΩ | ±50 ppm/°C |

* 訂購此類產品時請注明所需產品型號、阻值、誤差、TCR 要求