

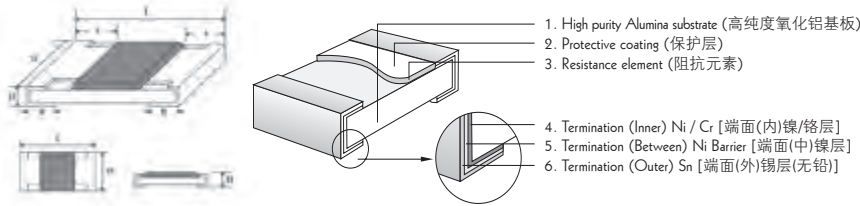
Feature (特性)

- Thin film NiCr Resistance element 薄膜镍铬阻抗元件
- Very tight tolerance from 精密的公差从 $\pm 0.10\%$, $\pm 0.25\%$
- Extremely low TCR from 极低的 TCR从 $\pm 5 \sim \pm 50 \text{ PPM}^\circ\text{C}$
- Totally Lead-free 完全无铅产品

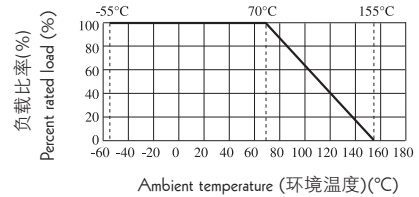
Application (应用)

- Medical Equipment 医疗器材
- Testing / Measurement Equipment 检测仪器
- Communication Device, Cell Phone, GPS, PDA. 通讯用具, 手机, GPS, PDA
- Automatic equipment controller 自动化设备控制器
- Printer Equipment 打印器材
- Converters 变频器

Figures (型状)



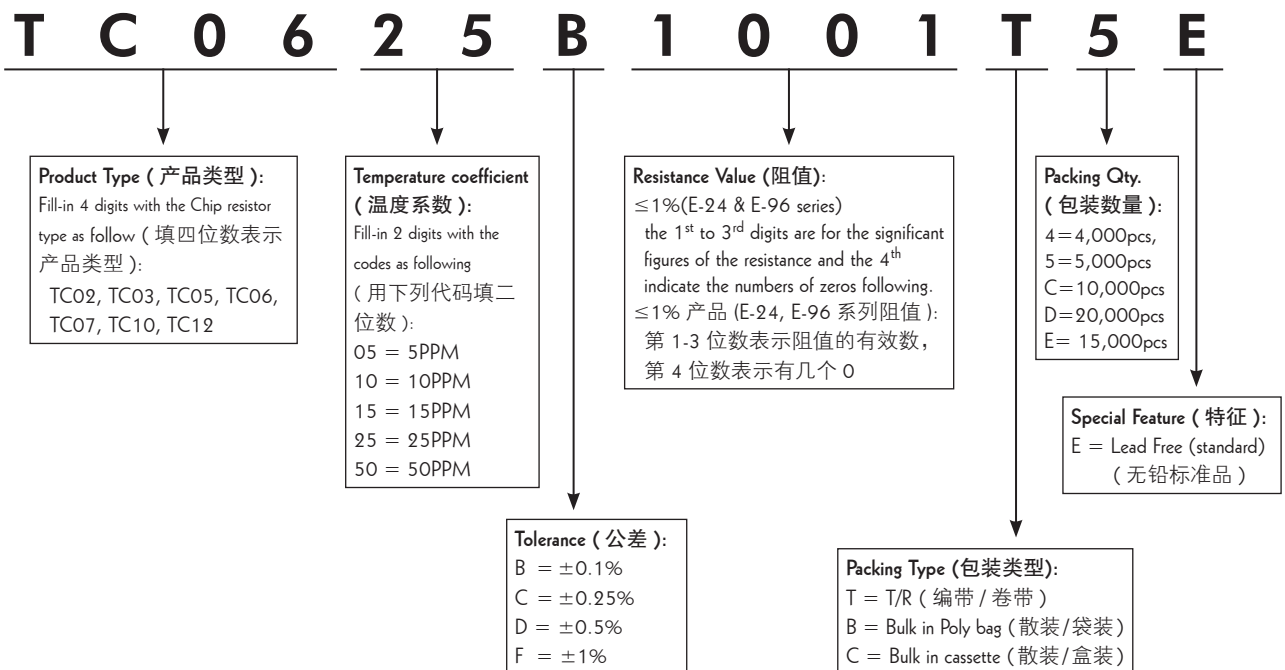
Derating Curve (降功率曲线)



Type 类型	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)
TC02	1.00±0.10	0.50 ±0.05	0.35±0.05	0.20±0.10	0.25±0.10
TC03	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20
TC05	2.00±0.15	1.25 ^{+0.15} _{-.0.10}	0.55±0.10	0.40±0.20	0.40±0.20
TC06	3.10±0.15	1.55 ^{+0.15} _{-.0.10}	0.55±0.10	0.45±0.20	0.45±0.20
TC07	3.10±0.10	2.60±0.20	0.55±0.10	0.45±0.20	0.45±0.20
TC10	5.00±0.10	2.50±0.20	0.55±0.10	0.60±0.25	0.50±0.20
TC12	6.35±0.10	3.20±0.20	0.55±0.10	0.60±0.25	0.50±0.20

Ordering Procedure (Example: Thin Film TC06 1/8W 0.1% 25PPM 1KΩ T/R-5000)

订购方式(例如: 薄膜TC06 1/8W 0.1% 25PPM 1KΩ T/R-5000)



Performance Specification (性能)

Short-time overload	短时间过负荷	$\Delta R \leq \pm 0.5\%$
Insulation Resistance	绝缘电阻	$\geq 1000M\Omega$
Load life	负载寿命	$\Delta R \leq \pm 0.2\%$ >7K Ω $\Delta R \leq \pm 0.5\%$
Humidity (Steady State)	恒定湿热	$\Delta R \leq \pm 0.3\%$
Terminal bending	端子弯曲	$\Delta R \leq \pm 0.2\%$
Solderability	可焊性	Min 95% coverage (最少 95% 覆盖率)
Soldering heat	耐焊接热	$\Delta R \leq \pm 0.2\%$

Characteristics (特性)

Type 类型	Power Rating 功率 at 70°C	Operating Temperature 工作温度范围	Max. Working Voltage 最大工作电压	Max. Overload Voltage 最大过负荷电压	Resistance Range 阻值范围				TCR 温度系数
					$\pm 0.10\%$	$\pm 0.25\%$	$\pm 0.5\%$	$\pm 1\%$	
TC02	1/16W	-55°C~+155°C	25V	50V	100 Ω ~2K Ω	100 Ω ~2K Ω	100 Ω ~2K Ω	± 5 PPM/°C	
					50 Ω ~12K Ω	50 Ω ~12K Ω	50 Ω ~12K Ω	± 10 PPM/°C	
					10 Ω ~332K Ω	10 Ω ~332K Ω	10 Ω ~332K Ω	± 25 PPM/°C	
					10 Ω ~332K Ω	10 Ω ~332K Ω	10 Ω ~332K Ω	± 50 PPM/°C	
TC03	1/16W	-55°C~+155°C	50V	100V	100 Ω ~4K Ω	100 Ω ~4K Ω	100 Ω ~4K Ω	± 5 PPM/°C	
					50 Ω ~50K Ω	50 Ω ~50K Ω	50 Ω ~50K Ω	± 10 PPM/°C	
					4.7 Ω ~1M Ω	1.5 Ω ~1M Ω	1 Ω ~1M Ω	± 25 PPM/°C	
					4.7 Ω ~1M Ω	1.5 Ω ~1M Ω	1 Ω ~1M Ω	± 50 PPM/°C	
TC05	1/10W	-55°C~+155°C	100V	200V	100 Ω ~10K Ω	100 Ω ~10K Ω	100 Ω ~10K Ω	± 5 PPM/°C	
					50 Ω ~100K Ω	50 Ω ~100K Ω	50 Ω ~100K Ω	± 10 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 25 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 50 PPM/°C	
TC06	1/8W	-55°C~+155°C	150V	300V	100 Ω ~15K Ω	100 Ω ~15K Ω	100 Ω ~15K Ω	± 5 PPM/°C	
					50 Ω ~200K Ω	50 Ω ~200K Ω	50 Ω ~200K Ω	± 10 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 25 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 50 PPM/°C	
TC07	1/5W	-55°C~+155°C	150V	300V	100 Ω ~25K Ω	100 Ω ~25K Ω	100 Ω ~25K Ω	± 5 PPM/°C	
					50 Ω ~200K Ω	50 Ω ~200K Ω	50 Ω ~200K Ω	± 10 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 25 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 50 PPM/°C	
TC10	1/4W	-55°C~+155°C	150V	300V	100 Ω ~25K Ω	100 Ω ~25K Ω	100 Ω ~25K Ω	± 5 PPM/°C	
					50 Ω ~200K Ω	50 Ω ~200K Ω	50 Ω ~200K Ω	± 10 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 25 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 50 PPM/°C	
TC12	1/2W	-55°C~+155°C	150V	300V	100 Ω ~25K Ω	100 Ω ~25K Ω	100 Ω ~25K Ω	± 5 PPM/°C	
					50 Ω ~200K Ω	50 Ω ~200K Ω	50 Ω ~200K Ω	± 10 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 25 PPM/°C	
					4.7 Ω ~1M Ω	1 Ω ~1M Ω	1 Ω ~1M Ω	± 50 PPM/°C	