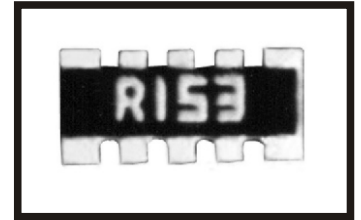
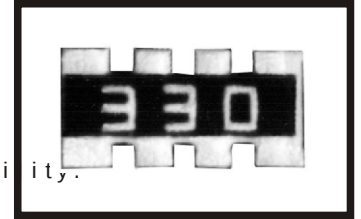


厚膜片式网络电阻器

THICK FILM CHIP NETWORK RESISTOR

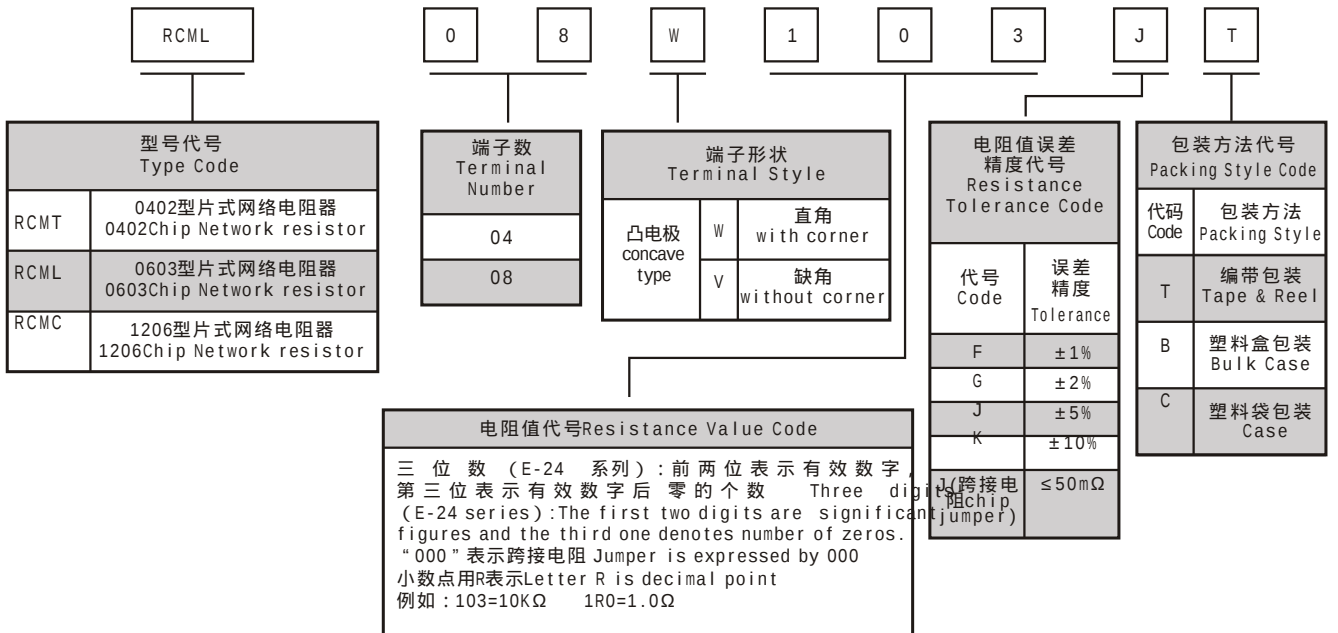
特性 FEATURES

- * 体积小、重量轻。
- * 适应再流焊与波峰焊。
- * 电性能稳定，可靠性高。
- * 装配成本低，并与自动装贴设备匹配。
- * 机械强度高、高频特性优越。
- Miniature and light weight.
- Suit for reflow and wave flow solder.
- Stable electrical capability, high reliability.
- Low assembly cost, suit for automatic SMT equipment.
- Superior mechanical and frequency characteristics.

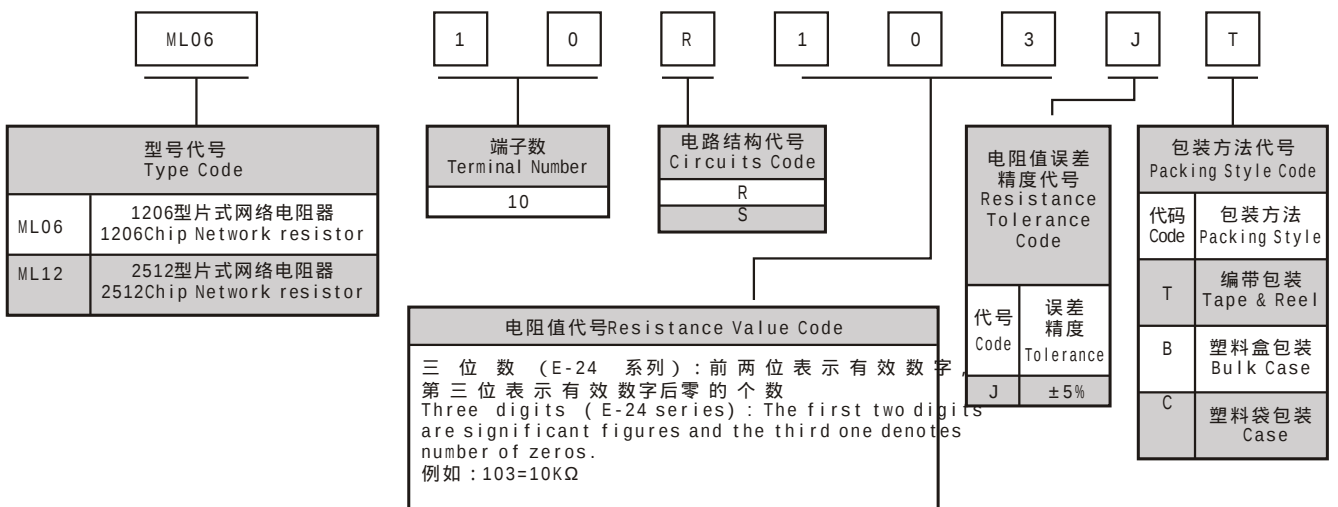


品名构成 Type Designation

* 例1 Example 1



* 例2 Example 2



● 参考标准 REFERENCE STANDARD

GB/T 5729-94
GB/T 9546-1995
JIS C 5223-1989
JIS C 5201-1994
JIS C 5202-1985

● IEC E-24 系列电阻值代码对照表

IEC E-24 Series Resistance Cross-reference List

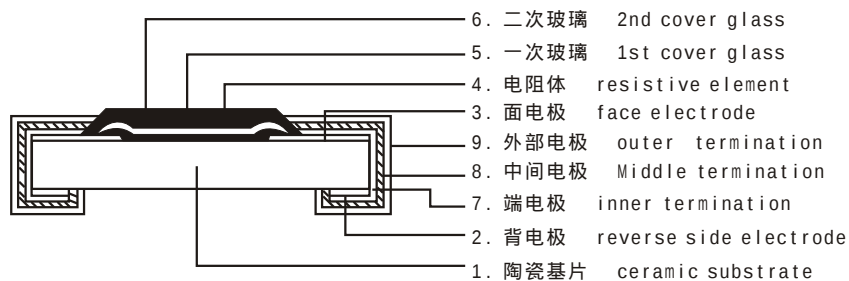
E-24 系列 E-24 Series ($\times 10^n \Omega$)

(单位unit: 1 Ω 、10 Ω 、100 Ω 、1K Ω 、10K Ω 、100K Ω 、1M Ω)

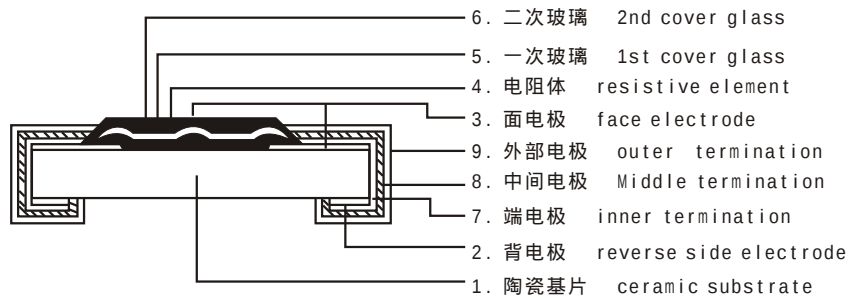
1.0	1.5	2.2	3.3	4.7	6.8
1.1	1.6	2.4	3.6	5.1	7.5
1.2	1.8	2.7	3.9	5.6	8.2
1.3	2.0	3.0	4.3	6.2	9.1

● 结构图 CONSTRUCTION

* 例1 Example 1: RCMT/RCML/RCMC:

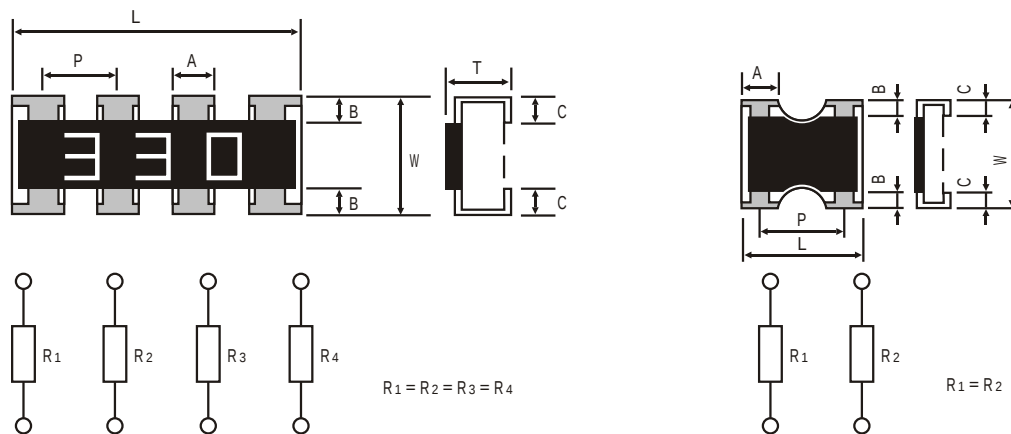


* 例2 Example 2: ML06/ML12:



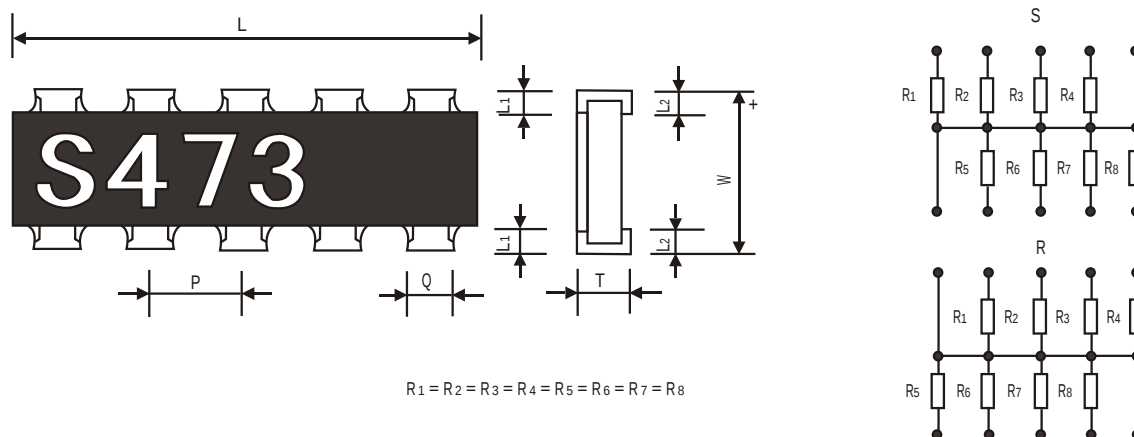
• 规格尺寸及等效电路 DIMENSIONS AND EQUIVALENT CIRCUIT

* 例1 Example 1: RCMT/RCML/RCMC:



型号 Type	L	W	T	P	A	B	C
RCMT04	1.00 ± 0.10	1.00 ± 0.10	0.35 ± 0.10	0.65 ± 0.05	0.35 ± 0.10	0.15 ± 0.05	0.25 ± 0.10
RCMT08	2.00 ± 0.10	1.00 ± 0.10	0.45 ± 0.10	0.50 ± 0.05	0.20 ± 0.15	0.15 ± 0.05	0.25 ± 0.20
RCML08	3.20 ± 0.15	1.60 ± 0.15	0.50 ± 0.10	0.80 ± 0.10	0.50 ± 0.15	0.30 ± 0.20	0.30 ± 0.15
RCMC08	5.08 ± 0.20	3.10 ± 0.20	0.60 ± 0.10	1.27 ± 0.10	1.10 ± 0.15	0.50 ± 0.20	0.50 ± 0.15

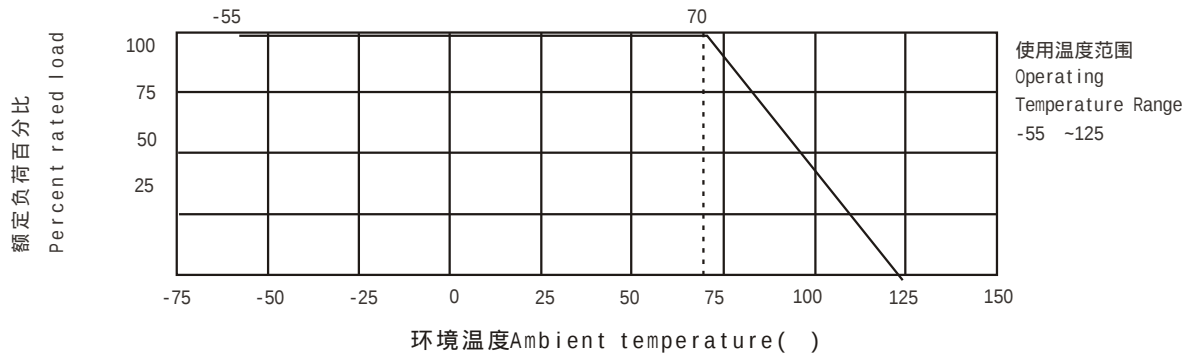
* 例2 Example 2: ML06/ML12:



型号 Type	L	W	T	L1	L2	P	Q
ML06	3.20 ± 0.20	1.60 ± 0.15	0.55 ± 0.10	0.30 ± 0.15	0.30 ± 0.15	0.64 ± 0.10	0.32 ± 0.10
ML12	6.40 ± 0.20	3.10 ± 0.20	0.55 ± 0.10	0.50 ± 0.20	0.50 ± 0.20	1.27 ± 0.10	0.80 ± 0.10



• 负荷下降曲线 DERATING CURVE



* 当电阻使用的环境温度超过70 时，其额定负荷(额定功率或额定电流)按上述曲线下降。
For resistors operated in ambient over 70 , rated load (power rating or current rating) shall be derated in accordance with above figure.

• 额定值 RATINGS

项 目 Item	标 准 Specifications					
	RCMT04	RCMT08	RCML08	RCMC08	ML-06	ML-12
额定功率 Power Rating	1/16W		1/16W	1/8W	1/32W	1/16W
最大工作电压 Max. Working Voltage	50V		50V	200V	25V	50V
最大过负荷电压 Max. Overload Voltage	100V		100V	400V	50V	100V
跨接电阻额定电流 Jumper Rated Current	1A		1A	2A	/	/
电阻温度系数 Resistance Temperature Coefficient	±200ppm/		10Ω ≤ R ≤ 1MΩ : ±100ppm/ 1Ω ≤ R < 10Ω, 1MΩ Ω < R ≤ 10M : ±250ppm/		±250ppm/	
阻值误差精度 Resistance Tolerance	±5% 跨接电阻Chip jumper: ≤50mΩ		±1%, ±2%, ±5%, ±10%, 跨接电阻Chip jumper: ≤50mΩ		±5%	
阻值范围 Resistance Range	0Ω(跨接电阻chip jumper) , 1Ω~10MΩ(E-24 系列 series)		0Ω(跨接电阻chip jumper) , 1Ω~10MΩ(E-24 系列 series)		33Ω~470KΩ(E-24系列series)	
使用温度范围 Operating Temperature Range	- 55 ~125					
额定温度 Rated Temperature	+ 70					

* 注：额定电压 = $\sqrt{\text{额定功率} \times \text{标称电阻值}}$ 或最大工作电压中的较小值。
Note: Rated Voltage = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$ or Max. Working Voltage, whichever is lower.

THICK FILM CHIP NETWORK RESISTOR

● 特性 CHARACTERISTICS

项目 Item	标准 Specifications	测试方法 (JIS C 5202 标准) Test Methods (JIS C 5202)
端头强度 Bending Strength	无可见损伤, No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05\Omega)$ 跨接电阻 Chip jumper: $R \leq 50m\Omega$	弯曲速度 (Speed): 1mm/S 弯曲距离 (Bending Distance): 3mm
温度循环 Temperature Cycling	无可见损伤, No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05\Omega)$ 跨接电阻 Chip jumper: $R \leq 50m\Omega$	-55 (30分钟) ~ 常温 (5分钟) ~ 125 (30分钟) 5个循环 -55 (30min) ~ normal temperature (5min) ~ 125 (30min) 5cycles
短时间过负载 Short Time Overload	无可见损伤, No mechanical damage $\Delta R \leq \pm (2.0\%R + 0.05\Omega)$ 跨接电阻 Chip jumper: $R \leq 50m\Omega$	2.5倍额定电压或最大过负荷电压 (取最小者) 保持5秒 2.5×Rated voltage or Max. Overload Voltage, (choose the lower), for 5 seconds
耐焊接热 Resistance to Soldering Heat	无可见损伤, No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05\Omega)$ 跨接电阻 Chip jumper: $R \leq 50m\Omega$	260 ± 5 10 ± 1 秒 260 ± 5 10s ± 1 s
稳态湿热 Steady state humidity	无可见损伤, No mechanical damage $\Delta R \leq \pm (3.0\%R + 0.1\Omega)$ 跨接电阻 Chip jumper: $R \leq 100m\Omega$	40 ± 2 90%~95%RH1000小时 40 ± 2 90%~95%RH1000h
70 耐久性 Load Life	无可见损伤, No mechanical damage $\Delta R \leq \pm (3.0\%R + 0.1\Omega)$ 跨接电阻 Chip jumper: $R \leq 100m\Omega$	70 ± 2 1000小时 额定电压 通1.5小时, 断0.5小时 70 ± 2 1000h Rated voltage 1.5h on/0.5h off
上限类别温度耐久性 Endurance at upper temperature	无可见损伤, No mechanical damage $\Delta R \leq \pm (3.0\%R + 0.1\Omega)$ 跨接电阻 Chip jumper: $R \leq 100m\Omega$	125 ± 2 1000小时 125 ± 2 1000h
耐溶剂性 Resistance to Solvent	无可见损伤, No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05\Omega)$ 跨接电阻 Chip jumper: $R \leq 50m\Omega$	浸入三氯乙烯 10 ± 1 小时 Dip in chloroethylene for 10h ± 1 h.
耐电压 Dielectric Withstand Voltage	无可见损伤, No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05\Omega)$ 跨接电阻 Chip jumper: $R \leq 50m\Omega$	施加 (40~60) Hz, 峰值等于1.42倍绝缘电压 (即耐电压) 的交流电压, 并以大约100V/S的速率从零升到规范规定的电压, 然后保持1min ± 5 s Applying voltage from 0V to peak insulation resistance value at the speed of 100V/S, 1min ± 5 s.
可焊性 Solderability	可焊面积 $\geq 95\%$ 95% Cover Min	235 ± 5 2 ± 0.5 秒 235 ± 5 2s ± 0.5 s
附着力 Adhesion	外观无可见损伤 No mechanical damage	施加力5N 10 ± 1 秒 Applying 5N 10s ± 1 s

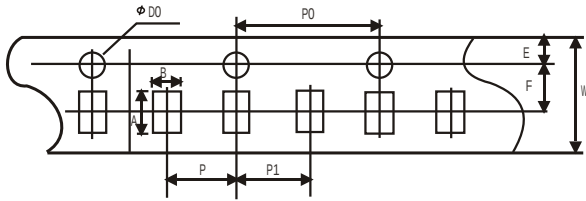


● 包装 PACKAGING

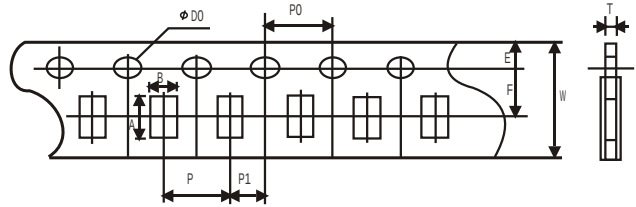
* 编带包装 Tape and reel

纸带编带 Paper taping

RCMT04、RCMT08



RCML08、ML06



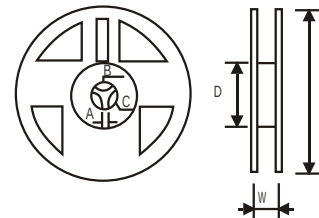
unit:mm

型号 Type	A	B	W	F	E
RCMT04	1.20±0.05	1.20±0.05	8.00±0.20	3.50±0.05	1.75±0.10
RCMT08	1.20±0.05	2.20±0.10	8.00±0.20	3.50±0.05	1.75±0.10
RCML08	3.50±0.20	1.90±0.20	8.00±0.20	3.50±0.05	1.75±0.10
ML06	3.50±0.20	1.90±0.20	8.00±0.20	3.50±0.05	1.75±0.10

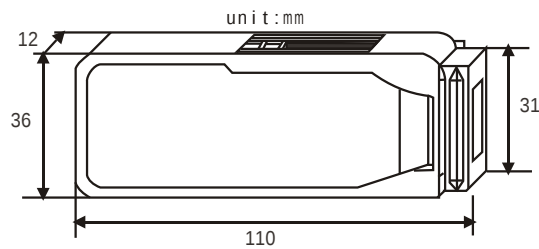
型号 Type	P	P0	P1	φ D0	T
RCMT04	2.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.45±0.05
RCMT08	2.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.45±0.05
RCML08	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.75±0.10
ML06	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.75±0.10

卷盘 Reel

型号Type	M	W	T	A	B	C	D
RCMT04/RCMT08	178.00	9.50	12.50	2.00	13.00	21.00	80.00
/RCML08ML06	±2.00	±1.00	±1.50	±0.50	±0.50	±0.50	±2.00



* 塑料盒包装 Bulk case



* 包装数量 Packaging quantity

包装方法 Packaging style	编带 Tape and reel		塑料盒 Bulk case		塑料袋散装 Case	
型号 Type	RCMT04 RCMT08	RCML08 ML06	RCML08 ML06	RCMC08 ML12	RCMT04/RCMT08 RCML08/ML06	RCMC08 ML12
数量 (PCS) Quantity	10000	5000	5000	1000	≤10000	≤4000