厚膜片式網絡電阻器

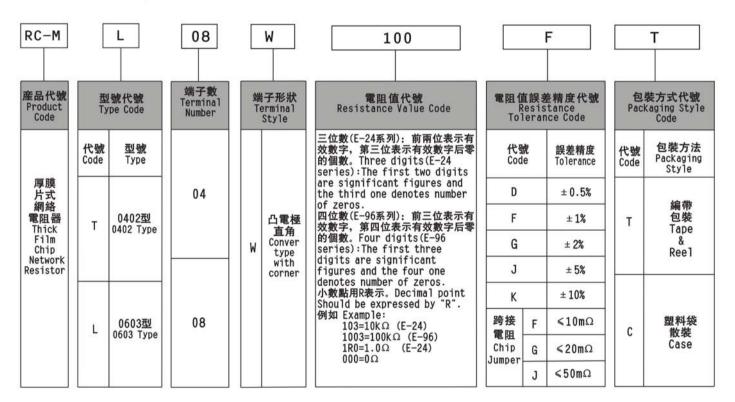
Thick Film Chip Network Resistor

■ 特點 Features

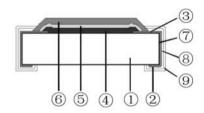
- 體積小、重量輕 Miniature and light weight
- 適應再流焊 Suit for reflow solder
- 電性能穩定,可靠性高 Stable electrical capability, high reliability
- 裝配成本低, 并與自動貼裝設備匹配 Low assembly cost, suit for automatic SMT equipment
- 機械强度高、高頻特性優越 Superior mechanical and frequency characteristics
- 符合RoHS指令要求 Compliant with RoHS directive



品名構成 Type Designation



■ 結構 Construction

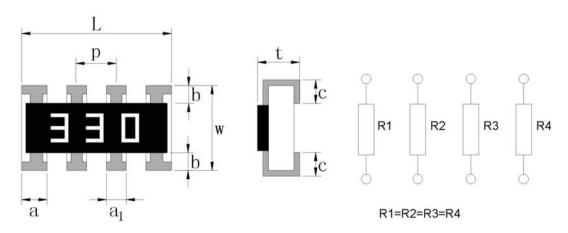


- ① 陶瓷基板 Ceramic Substrate
- ② 背電極 Bottom Electrode
- ③ 面電極 Top Electrode
- ④ 電阻體 Resistor Layer
- ⑤ 一次保護 Primary Overcoat
- ⑥ 二次保護 Secondary Overcoat
- ⑦ 端電極 Edge Electrode
- ® 中間電極 Barrier Layer
- ⑨ 外部電極 External Electrode



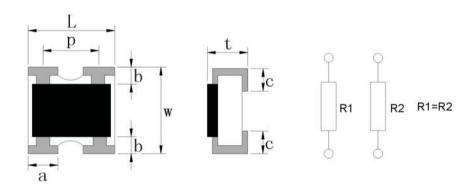
网华高科

■ 規格尺寸 Dimensions RCMT08/RCML08:



| 型號 Type | | 尺寸 Dimensions (mm) | | | | | | | | |
|------------|-------------|--------------------|-----------|-----------|-----------|----------------|-----------|-------------|--|--|
| | L | W | t | p | a | â ₁ | b | С | | |
| RCMT08 | 2.00 ± 0.10 | 1.00 ± 0.10 | 0.45±0.10 | 0.50±0.05 | 0.40±0.10 | 0.30±0.10 | 0.15±0.10 | 0.25 ± 0.10 | | |
| RCML08 | 3.20±0.15 | 1.60±0.15 | 0.50±0.10 | 0.80±0.10 | 0.60±0.10 | 0.40±0.10 | 0.30±0.20 | 0.30±0.15 | | |

RCMT04:



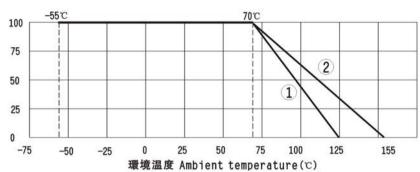
| 型號 Type | 尺寸 Dimensions (mm) | | | | | | | |
|------------|--------------------|-------------|-------------|-----------|-----------|-----------|-----------|--|
| Туре | L | W: | t | D | a | b | C | |
| RCMT04 | 1.00 ± 0.10 | 1.00 ± 0.10 | 0.35 ± 0.10 | 0.65±0.05 | 0.35±0.10 | 0.15±0.10 | 0.25±0.10 | |

厚膜片式網絡電阻器

Thick Film Chip Network Resistor

■負荷下降曲綫 Derating Curve

額定負荷百分比 Percent Rated Load



使用温度範圍: ①Operating Temperature Range: -55℃~125℃ ②Operating Temperature Range: -55℃~155℃

注1: 曲綫①適用于RCMT04、RCMT08産品; 曲綫②適用于RCML08産品。
Note1: RCMT04、RCMT08 product be the same with curve ①; RCML08 be the same with curve ②.
注2: 當電阻使用的環境温度超過70℃時,其額定負荷(額定功率或額定電流)按上述曲綫下降。
Note2: For resistors operated in ambient over 70℃, rated load (rated power or rated current) shall be derated in accordance with the above figure.

■ 額定值 Ratings

注 Note

| 型號 Type | 70℃下 額定功率 Rated Power at 70℃ (W) | 元件極限電壓 Limiting Element Voltage (V) | 最大過負荷 電壓 Max.Overload Voltage (V) | 跨接電阻70℃ 下額定電流 Rated Current for Chip Jumper at 70℃ (A) | 跨接電阻最大 過負荷電流 Max.Overload Current for Chip Jumper (A) | 端子 數目 Terminal Numbers | 電阻 個數 Resistor Numbers |
|------------|--|---|---|---|--|---------------------------------|---------------------------------|
| RCMT04 | 1/16 | 50 | 100 | 1 | 2 | 4 | 2 |
| RCMT08 | 1/16 | 50 | 100 | 1, | 2 | 8 | 4 |
| RCML08 | 1/16 | 50 | 100 | 1 | 3 | 8 | 4 |

1、電壓、電流爲直流或交流有效值。

Voltage, current of DC or AC RMS value.

2、E= /PR 或元件極限電壓兩者中的較小值。

 $\label{eq:energy} \mathsf{E} \text{=} \sqrt{\,\mathsf{PR}\,} \text{ or Limiting element voltage whichever is lower.}$

E: 額定電壓 Rated voltage(V)
P: 額定功率 Rated power(W)

R: 標稱阻值 Normal resistance(Ω)

| 型號 Type | 阻 值範圍 Resistance Range | 電阻温度系數 T.C.R (ppm/C) |
|------------------|---|-------------------------|
| | 1Ω <r<10ω< td=""><td>± 400</td></r<10ω<> | ± 400 |
| RCMT04 RCMT08 | 10Ω < R < 1MΩ | ± 200 |
| | 1MΩ < R < 10MΩ | ± 400 |
| | 1Ω ≤R<10Ω | ± 250 |
| RCML08 | 10Ω < R < 1MΩ | ±100 |
| | 1MΩ <r≤10mω< td=""><td>± 250</td></r≤10mω<> | ± 250 |

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■ 特性 Characteristics

| 項目 | 標 Specific | 准 ations | 測試方法 (IEC 60115-1) |
|--|--|---|---|
| Item | 片式電阻器 Resistor | 跨接電阻 Jumper | Test Methods (IEC 60115-1) |
| 可焊性 Solderability | 可焊面積 > 95% 95% Cover Min | 可焊面積 > 95% 95% Cover Min | IEC 60115-1 4.17 245℃±5℃錫槽,保持3s±0.3s. Lead-free solder bath at 245℃±5℃ for 3s±0.3s. |
| 耐焊接熱 Resistance to Soldering Heat | 無可見損傷 No mechanical damage △R≤±(1.0%R+0.05Ω) | 無可見損傷 No mechanical damage R < 50 mΩ (J級) R < 20 mΩ (G級) R < 10 mΩ (F級) | IEC 60115-1 4.18 270℃±5℃錫槽,保持10s±1s. Lead-free solder bath at 270℃±5℃ for 10s±1s. |
| 基板彎曲試驗 Substrate Bending Test | 外觀無可見損傷 No mechanical damage △R≤±(1.0%R+0.05Ω) | 無可見損傷 No mechanical damage R<50 mΩ(J級) R<20 mΩ(G級) R<10 mΩ(F級) | IEC 60115-1 4.33 彎曲距離(Bending distance): RCMT04、RCMT08: 5mm; RCML08: 4mm; 保持時間(Duration):60s±5s. |
| 剪切力試驗 Shear Test | 外觀無可見損傷 No mechanical damage | 外觀無可見損傷 No mechanical damage | IEC 60115-1 4.32 施加力(Applying force): 5 N. 保持時間(Duration): 10s±1s. |
| 電阻温度系數 T.C.R | 在規定值内 Within specified T.C.R | 1 | IEC 60115-1 4.8 +20°C/-55°C/+20°C/+125°C/+20°C |
| 温度快速變化 Rapid Change of Temperature | 無可見損傷 No mechanical damage △R≤±(1.0%R+0.05Ω) | 無可見損傷 No mechanical damage R < 50 mΩ(1級) R < 20 mΩ(G級) R < 10 mΩ(F級) | IEC 60115-1 4.19 RCMT04、RCMT08: -55℃(30分鐘)~常温(5分鐘)~125℃(30分鐘),300個循環。 RCMT04、RCMT08: -55℃(30min)~normal temperature (5min)~125℃(30min), 300 cycles. RCML08: -55℃(30分鐘)~常温(5分鐘)~155℃(30分鐘),300個循環。 RCML08: -55℃(30min)~normal temperature(5min)~155℃(30min), 300 cycles. |
| 短時間過負載 Short Time Overload | 無可見損傷 No mechanical damage 0.5%、1%: △R ≤ ± (1.0%R+0.05Ω) 2%、5%、10%; △R ≤ ± (2.0%R+0.05Ω) | 無可見損傷 No mechanical damage R<50 mΩ(J級) R<20 mΩ(G級) R<10 mΩ(F級) | IEC 60115-1 4.13 2.5倍額定電壓或最大過負荷電壓/電流(取最小值),持續5秒。 2.5 times rated voltage or max.overload voltage (current) whicheveris lower for 5s. |
| 斷續過負載 Periodic Pulse Overload Test | 無可見損傷 No mechanical damage △R≤±(5.0%R+0.05Ω) | 無可見損傷 No mechanical damage R<50 mΩ(J級) R<20 mΩ(G級) R<10 mΩ(F級) | IEC 60115-1 4.39 2.5倍額定電壓或最大過負荷電壓/電流(取最小值),通1秒/ 斷25秒,10000個循環。 2.5 times rated voltage or max. overload voltage (current) whichever is lower for 1s ON/ 25s OFF, 10000 cycles. |
| 穩態濕熱 Damp Heat, Steady State | 無可見損傷 No mechanical damage △R≤±(3.0%R+0.05Ω) | 無可見損傷 No mechanical damage R<100 mΩ(J級) R<40 mΩ(G級) R<20 mΩ(F級) | IEC $60115-1$ 4.24 $40\%\pm2\%$, $93\%\pm3\%$ RH, $1000h$, 額定電壓(電流)或元件極限電壓(取較小值)通1.5小時/斷0.5小時。 $40\%\pm2\%$, $93\%\pm3\%$ RH, $1000h$, rated voltage (current) or limiting element voltage whichever is lower for $1.5h$ $0N/0.5h$ $0FF$. |
| 70℃耐久性 Endurance at 70℃ | 無可見損傷 No mechanical damage 0.5% 、1%: $\triangle R \le \pm (1.0\%R + 0.05\Omega)$ 2%、5%、10%: $\triangle R \le \pm (2.0\%R + 0.05\Omega)$ | 無可見損傷 No mechanical damage R<100 mΩ(J級) R<40 mΩ(G級) R<20 mΩ(F級) | IEC $60115-1$ $4.25.1$ $70\% \pm 2\%$, $1000h$, 額定電壓(電流)或元件極限電壓(取較小值)通1.5小時/斷 0.5 小時。 $70\% \pm 2\%$, $1000h$, rated voltage (current) or limiting element voltage whichever is lower for 1.5h ON/ $0.5h$ OFF. |

厚膜片式網絡電阻器 Thick Film Chip Network Resistor

■ 特性 Characteristics

(續上頁 Continue)

| 項目 | 2.5 | [准 ications | 測試方法 (IEC 60115-1) |
|---|---|--|---|
| Item | 片式電阻器 Resistor | 跨接電阻 Jumper | Test Methods (IEC 60115-1) |
| 上限類别温度 耐久性 Endurance at Upper Temperature | 無可見損傷 No mechanical damage 0.5% , 1% : $\triangle R \le \pm (1.0\%R + 0.05\Omega)$ 2% , 5% , 10% : $\triangle R \le \pm (2.0\%R + 0.05\Omega)$ | 無可見損傷 No mechanical damage R < 100 m Ω (J級) R < 40 m Ω (G級) R < 20 m Ω (F級) | IEC 60115-1 4.25.3 RCMT04, RCMT08: 125℃ ±2℃ ,1000h. RCML08: 155℃ ±2℃,1000h. |
| 低温負載 Operation at Low Temperature | 無可見損傷 No mechanical damage 0.5% , 1% : $\triangle R \le \pm (1.0\%R + 0.05\Omega)$ 2% , 5% , 10% : $\triangle R \le \pm (2.0\%R + 0.05\Omega)$ | 無可見損傷 No mechanical damage R < 50 mΩ(J級) R < 20 mΩ(G級) R < 10 mΩ(F級) | IEC $60115-1$ 4.36 $-55\% \pm 5\%$, 無負載 1 小時,額定電壓(電流)或元件極限電壓(取較小值) 45 分鐘,無負載 15 分鐘。 $-55\% \pm 5\%$, 1h without load, rated voltage(current) or limitingelement voltage whichever is lower for 45 min, 15 min without load. |
| 絶緣電阻 Insulation Resistance | 1000MΩ Min | 1000MΩ Min | IEC 60115-1 4.6 在電極與基片間施加100V±15V直流電壓,保持1分鐘,然后 測絶緣電阻值。 Apply DC 100V±15V between substrate and terminations for 1 min, then check insulation resistance. |
| 耐電壓 Voltage Proof | 無擊穿或飛弧 No breakdown or flashover | 無擊穿或飛弧 No breakdown or flashover | IEC 60115-1 4.7 在電極與基片間以大約100V/s的速率施加有效值爲最大過負 荷電壓的交流電壓,保持60s±5s. Apply max. overload voltage of AC RMS at a rate of approximately 100V/s between substrate and terminations for 60s±5s. |
| 耐溶劑 Component Solvent Resistance | 無可見損傷 No mechanical damage △R≤±(1.0%R+0.05Ω) | 無可見損傷 No mechanical damage R < 50 mΩ(J級) R < 20 mΩ(G級) R < 10 mΩ(F級) | IEC 60115-1 4.29 异丙醇(IPA), 23℃±5℃, 浸10小時。 Iso-propyl alcohol (IPA), 23℃±5℃, 10h. |

■ 包裝 Packaging

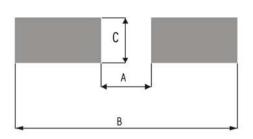
包裝方式見附録 Packaging see the appendix.

附録 Appendix

■ 推薦焊盤尺寸 Recommend Solder Pad Sire

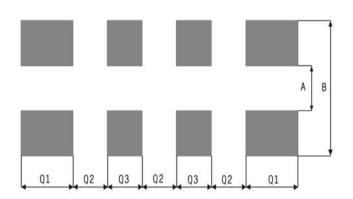
● 片式固定電阻器 Chip fixed resistor

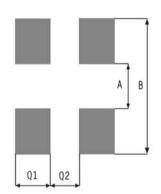
單位 unit: mm



| 型號Type | Α | В | С |
|--------|------|------|------|
| 01005 | 0.17 | 0.60 | 0.22 |
| 0201 | 0.23 | 0.84 | 0.38 |
| 0402 | 0.45 | 1.45 | 0.60 |
| 0603 | 0.80 | 2.50 | 0.95 |
| 0805 | 1.05 | 3.25 | 1.40 |
| 1206 | 1.90 | 4.50 | 1.75 |
| 1210 | 2.00 | 4.60 | 2.70 |
| 2010 | 3.50 | 6.50 | 2.70 |
| 2512 | 4.80 | 7.80 | 3.40 |

● 厚膜片式網絡電阻器 Thick film chip network resistor





單位 unit: mm

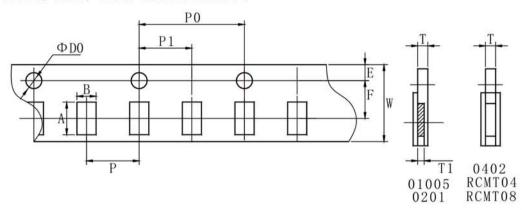
| 型號 Type | A | В | Q1 | Q2 | Q3 |
|---------|------|------|------|------|------|
| RCMT04 | 0.50 | 1.50 | 0.35 | 0.30 | / |
| RCMT08 | 0.38 | 1.60 | 0.40 | 0.20 | 0.30 |
| RCML08 | 0.80 | 2.70 | 0.60 | 0.40 | 0.40 |

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■ 包裝 Packaging

■ 紙帶編帶 Paper Taping

適用于01005、0201、0402、RCMT04、RCMT08: For 01005、0201、0402、RCMT04、RCMT08:



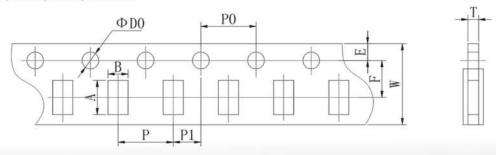
單位 unit: mm

| 型號 Type | A | В | W | F | E |
|---------|-------------|-------------|-------------|-------------|-----------------|
| 01005 | 0.45 ± 0.02 | 0.25±0.02 | 8.00 ± 0.02 | 3.50 ± 0.05 | 1.75 ± 0.05 |
| 0201 | 0.70 ± 0.10 | 0.40±0.10 | 8.00 ± 0.20 | 3.50 ± 0.05 | 1.75 ± 0.10 |
| 0402 | 1.20 ± 0.10 | 0.70±0.10 | 8.00 ± 0.20 | 3.50 ± 0.05 | 1.75 ± 0.10 |
| RCMT04 | 1.20 ± 0.10 | 1.20 ± 0.10 | 8.00 ± 0.20 | 3.50 ± 0.05 | 1.75 ± 0.10 |
| RCMT08 | 2.20 ± 0.10 | 1.20 ± 0.10 | 8.00 ± 0.20 | 3.50 ± 0.05 | 1.75 ± 0.10 |

單位 unit: mm

| 型號 Type | P | P0 | P1 | ФD0 | T1 | Ĭ. |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|
| 01005 | 2.00±0.05 | 4.00 ± 0.10 | 2.00 ± 0.05 | 1.55 ± 0.02 | 0.17 ± 0.02 | 0.31 ± 0.02 |
| 0201 | 2.00 ± 0.05 | 4.00 ± 0.10 | 2.00 ± 0.05 | 1.50 ± 0.10 | 0.28±0.04 | 0.42 ± 0.05 |
| 0402 | 2.00±0.05 | 4.00 ± 0.10 | 2.00 ± 0.05 | 1.50 ± 0.10 | 1 | 0.42±0.05 |
| RCMT04 | 2.00 ± 0.10 | 4.00±0.10 | 2.00 ± 0.05 | 1.50 ± 0.10 | 1 | 0.42±0.05 |
| RCMT08 | 2.00 ± 0.10 | 4.00 ± 0.10 | 2.00 ± 0.05 | 1.50 ± 0.10 | 1 | 0.60±0.10 |

適用于0603、0805、1206、1210、RCML08: For 0603、0805、1206、1210、RCML08:



附録 Appendix

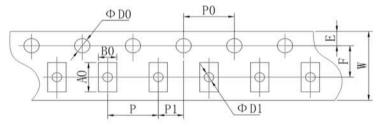
單位 unit: mm

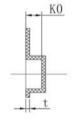
| 型號 Type | A | В | W | F | E |
|---------|-------------|-------------|-------------|-------------|-------------|
| 0603 | 1.85 ± 0.10 | 1.10±0.10 | 8.00 ± 0.20 | 3.50 ± 0.05 | 1.75 ± 0.10 |
| 0805 | 2.35 ± 0.10 | 1.65 ± 0.10 | 8.00 ± 0.20 | 3.50 ± 0.05 | 1.75 ± 0.10 |
| 1206 | 3.50 ± 0.20 | 1.90±0.20 | 8.00 ± 0.20 | 3.50±0.05 | 1.75 ± 0.10 |
| 1210 | 3.50 ± 0.20 | 2.80 ± 0.20 | 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 |

單位 unit: mm

| 型號 Type | P | P0 | P1 | ФD0 | Т |
|---------|-------------|-------------|-----------|-------------|-------------|
| 0603 | 4.00 ± 0.10 | 4.00 ± 0.10 | 2.00±0.05 | 1.50 ± 0.10 | 0.60 ± 0.10 |
| 0805 | 4.00 ± 0.10 | 4.00 ± 0.10 | 2.00±0.05 | 1.50 ± 0.10 | 0.75 ± 0.10 |
| 1206 | 4.00±0.10 | 4.00 ± 0.10 | 2.00±0.05 | 1.50 ± 0.10 | 0.75±0.10 |
| 1210 | 4.00±0.10 | 4.00 ± 0.10 | 2.00±0.05 | 1.50 ± 0.10 | 0.75 ± 0.10 |
| RCML08 | 4.00±0.10 | 4.00 ± 0.10 | 2.00±0.05 | 1.50 ± 0.10 | 0.75 ± 0.10 |

■ 塑料帶編帶 Embossed Taping 適用于2010、2512: For 2010、2512:





單位 unit: mm

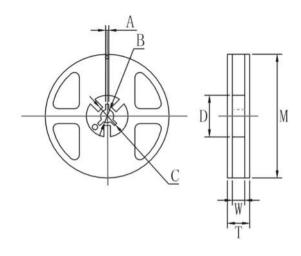
| 型號 Type | A0 | В0 | W | F | E | t |
|---------|-------------|-----------------|--------------|-------------|-------------|-------------|
| 2010 | 5.45 ± 0.10 | 2.77 ± 0.10 | 12.00 ± 0.10 | 5.50 ± 0.10 | 1.75 ± 0.10 | 0.24 ± 0.05 |
| 2512 | 6.73±0.10 | 3.40 ± 0.10 | 12.00 ± 0.10 | 5.50 ± 0.10 | 1.75 ± 0.10 | 0.24 ± 0.05 |

單位 unit: mm

| 型號 Type | P | PO | P1 | ФD0 | Ф D 1 | K0 |
|---------|-------------|-------------|-------------|--------------|--------------|-----------|
| 2010 | 4.00 ± 0.10 | 4.00 ± 0.10 | 2.00 ± 0.05 | 1.50+0.10/-0 | 1.50 ± 0.10 | 0.84±0.10 |
| 2512 | 4.00 ± 0.10 | 4.00 ± 0.10 | 2.00 ± 0.05 | 1.50+0.10/-0 | 1.50 ± 0.10 | 0.81±0.10 |

解 風華高科

● 卷盤 Reel



單位 unit: mm

| 型號 Type | М | W | Т | A | В | С | D |
|---|-----------|------------|----------|-----------|------------|------------|------------|
| 01005, 0201 0402, 0603 0805, 1206 1210, RCMT04 RCMT08, RCML08 | 178 ± 2.0 | 9.5±1.0 | 12.5±1.5 | 2.0 ± 0.5 | 13.0 ± 0.5 | 21.0 ± 0.5 | 58.0 ± 2.0 |
| 2010、2512 | 178 ± 2.0 | 13.0 ± 0.5 | 15.5±1.5 | 2.0 ± 0.5 | 13.0 ± 0.5 | 21.0 ± 0.5 | 57.0 ± 2.0 |

● 包裝數量 Packaging Quantity

| 包裝方法 Packaging style | | | i帶 & reel | 塑料袋散裝 Case | | | |
|-------------------------|-------|-------------------------------|----------------------------------|---------------|-----------------------|--|----------------------|
| 型號 Type | 01005 | 0201、0402 RCMT04 RCMT08 | 0603、0805 1206、1210 RCML08 | 2010 2512 | 01005 0201 0402 | 0603、0805 1206 RCMT04、RCMT08 RCML08 | 1210 2010 2512 |
| 數量 Quantity(pcs) | 20000 | 10000 | 5000 | 4000 | ≤50000 | <10000 | <4000 |

■ IEC E-24、E-96系列電阻值代碼對照表 IEC E-24、E-96 Series Resistance Cross-reference List

E-24 系列 E-24 series (×10°Ω)

(單位 unit: 0.001Ω 、 0.01Ω 、 0.1Ω 、 1Ω 、 1Ω 、 10Ω 、 10Ω 、 $1k\Omega$ 、 $10k\Omega$ 、 $100k\Omega$ 、 $1M\Omega$ 、 $100M\Omega$ 、 $100M\Omega$ 、 $1000M\Omega$)

| 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 |

附録

Appendix

● E-96系列 E-96 series (×10°Ω) (單位unit: 0.001Ω、0.01Ω、0.1Ω、1Ω、10Ω、100Ω、1kΩ、10kΩ、100kΩ、1MΩ、10MΩ、100MΩ、1000MΩ)

| 1.00 | 1.33 | 1.78 | 2.37 | 3.16 | 4.22 | 5.62 | 7.50 |
|------|------|------|------|------|------|------|------|
| 1.02 | 1.37 | 1.82 | 2.43 | 3.24 | 4.32 | 5.76 | 7.68 |
| 1.05 | 1.40 | 1.87 | 2.49 | 3.32 | 4.42 | 5.90 | 7.87 |
| 1.07 | 1.43 | 1.91 | 2.55 | 3.40 | 4.53 | 6.04 | 8.06 |
| 1.10 | 1.47 | 1.96 | 2.61 | 3.48 | 4.64 | 6.19 | 8.25 |
| 1.13 | 1.50 | 2.00 | 2.67 | 3.57 | 4.75 | 6.34 | 8.45 |
| 1.15 | 1.54 | 2.05 | 2.74 | 3.65 | 4.87 | 6.49 | 8.66 |
| 1.18 | 1.58 | 2.10 | 2.80 | 3.74 | 4.99 | 6.65 | 8.87 |
| 1.21 | 1.62 | 2.15 | 2.87 | 3.83 | 5.11 | 6.81 | 9.09 |
| 1.24 | 1.65 | 2.21 | 2.94 | 3.92 | 5.23 | 6.98 | 9.31 |
| 1.27 | 1.69 | 2.26 | 3.01 | 4.02 | 5.36 | 7.15 | 9.53 |
| 1.30 | 1.74 | 2.32 | 3.09 | 4.12 | 5.49 | 7.32 | 9.76 |

● E-96系列0603型號《乘數代碼對照表》及《電阻值代碼對照表》 E-96 series(0603) 《multiplied Cross-reference List》 And 《Resistance Cross-reference List》

| 乘數multiplied | × 10° | × 10 ¹ | × 10 ² | × 10 ³ | × 10 ⁴ | × 10 ⁵ | × 10 ⁶ | × 10 ⁷ | × 10 ⁻¹ | × 10 ⁻² | × 10 ⁻³ |
|--------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|
| 代碼 code | Α | В | С | D | E | F | G | Н | X | Υ | Z |

| 代號 Code | E-96系列電阻 E-96 resistance |
|------------|-----------------------------|------------|-----------------------------|------------|-----------------------------|------------|-----------------------------|
| 01 | 100 | 25 | 178 | 49 | 316 | 73 | 562 |
| 02 | 102 | 26 | 182 | 50 | 324 | 74 | 576 |
| 03 | 105 | 27 | 187 | 51 | 332 | 75 | 590 |
| 04 | 107 | 28 | 191 | 52 | 340 | 76 | 604 |
| 05 | 110 | 29 | 196 | 53 | 348 | 77 | 619 |
| 06 | 113 | 30 | 200 | 54 | 357 | 78 | 634 |
| 07 | 115 | 31 | 205 | 55 | 365 | 79 | 649 |
| 08 | 118 | 32 | 210 | 56 | 374 | 80 | 665 |
| 09 | 121 | 33 | 215 | 57 | 383 | 81 | 681 |
| 10 | 124 | 34 | 221 | 58 | 392 | 82 | 698 |
| 11 | 127 | 35 | 226 | 59 | 402 | 83 | 715 |
| 12 | 130 | 36 | 232 | 60 | 412 | 84 | 732 |
| 13 | 133 | 37 | 237 | 61 | 422 | 85 | 750 |
| 14 | 137 | 38 | 243 | 62 | 432 | 86 | 768 |
| 15 | 140 | 39 | 249 | 63 | 442 | 87 | 787 |
| 16 | 143 | 40 | 255 | 64 | 453 | 88 | 806 |
| 17 | 147 | 41 | 261 | 65 | 464 | 89 | 825 |
| 18 | 150 | 42 | 267 | 66 | 475 | 90 | 845 |
| 19 | 154 | 43 | 274 | 67 | 487 | 91 | 866 |
| 20 | 158 | 44 | 280 | 68 | 499 | 92 | 887 |
| 21 | 162 | 45 | 287 | 69 | 511 | 93 | 909 |
| 22 | 165 | 46 | 294 | 70 | 523 | 94 | 931 |
| 23 | 169 | 47 | 301 | 71 | 536 | 95 | 953 |
| 24 | 174 | 48 | 309 | 72 | 549 | 96 | 976 |

M 風華高科

■ 片式電阻器使用説明 Chip Resistor Instructions for Use

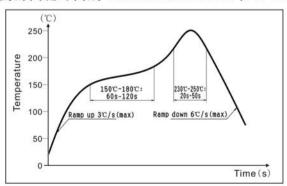
- 本産品在以下特殊環境下應用,性能可能會受到影響:
- 1、在各種類型的液體,包括水、油、化學品、有機溶劑的使用。
- 2、在户外直接暴露在陽光的地方,或在灰塵多的地方使用。
- 3、在産品暴露的地方,有海風或腐蝕性氣體,包括氯氣、硫化氫、氨氣、二氧化硫、二氧化氮。
- 4、在産品暴露于静電或電磁波的地方使用。
- 5、在産生熱量的部件、塑料綫,或其他易燃物品附近使用。
- 6、在用樹脂或其他塗層材料密封產品的情况下使用。
- 7、焊接后使用不潔焊料或使用水或水溶性清洗劑清洗產品。
- Application of the products in a special environment can deteriorate product performance:
- 1. Use in various types of liquid, including water, oils, chemicals, and organic solvents.
- 2. Use outdoors where the products are exposed to direct sunlight, or in dusty places.
- 3. Use in places where the products are exposed to sea winds or corrosive gases, including Cl₂, H₂S, NH₃, SO₂, and NO₂.
- 4. Use in places where the products are exposed to static electricity or electromagnetic waves.
- 5. Use in proximity to heat-producing components, plastic cords, or other flammable items.
- 6. Use involving sealing or coating the products with resin or other coating materials.
- 7. Use involving unclean solder or use of water or water-soluble cleaning agents for cleaning after soldering.

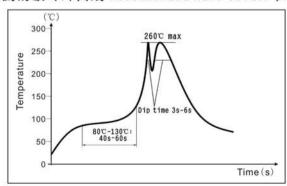
● 産品使用注意事項

- 1、避免采用超過正常額定功率的功率,超過額定功率的穩態負載條件下可能會對產品性能和可靠性產生負面影響。
- 2、用鑷子拿起産品時要小心,有可能會將保護或電阻體夾碎。
- 3、手動安裝產品時,烙鐵頭勿觸碰產品。
- 4、貯存條件:温度5℃~30℃,相對濕度30%~70%。
- Precautions on use of products
- 1. Avoid applying power exceeding normal rated power, exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- Be careful when pick up the products with tweezers. There may be a care that the overcoat and / or the body can be chipped.
- 3. Soldering tip shall not touch the product when install product manually.
- 4. Storage conditions: T: 5℃~30℃, RH: 30%~70%.

■ 焊接 Soldering

● 推薦的回流焊曲綫 Recommended reflow profile ● 推薦的波峰焊曲綫 Recommended wave solder profile





● 推薦的焊膏類型 Recommended solder alloy: 96.5Sn/3.0Ag/0.5Cu

单击下面可查看定价,库存,交付和生命周期等信息

>>FH(风华高科)