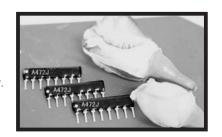
THICK FILM NETWORK RESISTOR

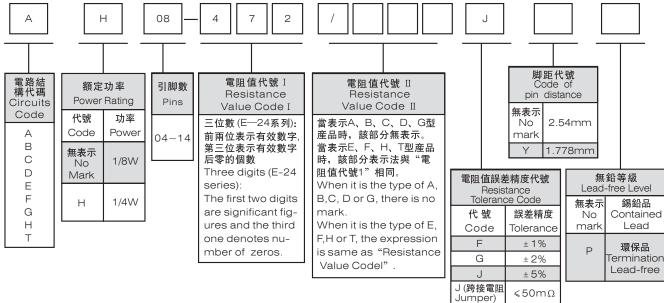
■ 厚膜網絡電阻器

THICK FILM NETWORK RESISTOR

- 産品簡介 BRIEF INTRODUCTION
- * 小型化、高密度組裝
- * 電性能穩定,可靠性高
- * 可得到不同電阻值組合
- * 符合RoHS指令
- · Miniature, high density assembly.
- Stable electrical capability, high reliability.
- Combinations of different ohmic value are available
- RoHS compliant



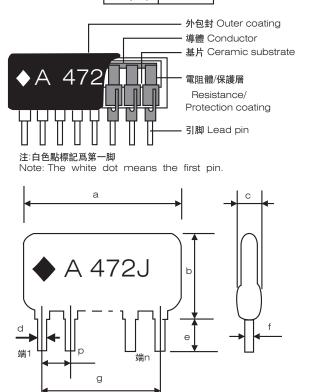




● 結構圖和外形尺寸 CONSTRUCTION AND DIMENSIONS

單位 unit:mm

| 代號 Code | 常規尺寸 Normal dimension | | 特殊尺寸 Special dimension | | |
|------------|-------------------------------|---------|-------------------------------|---------|--|
| а | 2.54 × (n-1)+2.50max | | 1.778×(n-1)+3.20max | | |
| b | A、B、C、D、 E、F、G、H 型 Type | 5.08max | A、B、C、D、 E、F、G、H 型 Type | 5.08max | |
| | T 型 Type | 8.50max | T 型 Type | 8.50max | |
| С | 3.00max | | 3.00max | | |
| d | 0.50 ± 0.1 | | 0.50±0.1 | | |
| е | 3.50±0.5 | | 3.50 ± 0.5 | | |
| f | 0.25 ± 0.1 | | 0.30 ± 0.1 | | |
| g | 2.54 × (n-1) ± 0.3 | | 1.778 × (n-1) ± 0.3 | | |
| р | 2.54±0.1 | | 1.778±0.1 | | |





● 等效電路 EQUIVALENT CIRCUIT

| 型 號 Type | 等 效 電 路 Equivalent Circuit | 型 號 Type | 等 效 電 路 Equivalent Circuit |
|-------------|--|-------------|---|
| А | $R_1 \cap R_2 \cap R_n $ | В | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| С | R_1 R_2 R_n | D | R_1 R_2 R_2 R_3 R_4 R_5 R_6 R_6 R_7 R_8 R_8 R_8 R_8 R_8 R_8 R_9 |
| Е | R_1 R_2 R_2 R_2 R_3 R_4 R_5 R_5 R_6 R_7 R_8 R_8 R_8 R_8 R_8 R_8 R_9 | F | R_1 R_2 R_2 R_3 R_4 R_5 R_6 R_7 R_8 R_8 R_8 R_8 R_8 R_8 R_8 R_9 |
| G | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Н | R1 R1 R1 R1 R2 R2 R2 R2 R2 R2 R3 R1 R2 R2 R3 R1 R2 R2 R3 R1 R2 R2 R3 R1 R2 R2 R3 |
| Т | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | |

• 參考標准 REFERENCE STANDARD

GB/T 15654-1995 GB/T 2828.1-2003 GB/T 2829-2002

● IEC E-24 系列電阻值代碼對照表

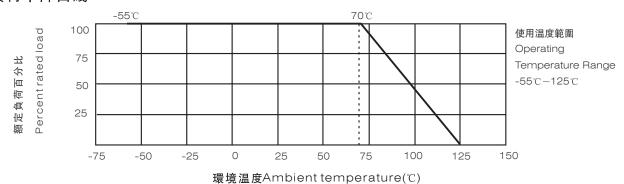
IEC E-24 Series Resistance Cross-reference List

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

(單位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 |

● 負荷下降曲綫 DERATING CURVE



* 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。

For resistors operated in ambient over 70° C, rated load (power rating or current rating) shall be derated in accordance with above figure.

● 額定值 RATINGS

| 項 目 Item | 標 准 Specification | |
|---|---|--|
| 額定功率 Power Rating | 1/8W (1/4w) | |
| 最大工作電壓 Max. Working Voltage | 200V | |
| 最大過負荷電壓 Max. Overload Voltage | 280V | |
| 跨接電阻額定電流 Jumper Rated Current | 2A | |
| 電阻温度系數 Resistance Temperature Coefficient | $10\Omega \leqslant R \leqslant 1M\Omega$: ± 100 ppm/°C $1\Omega \leqslant R \leqslant 10\Omega$, $1M\Omega \leqslant R \leqslant 10M$: ± 250 ppm/°C | |
| 阻值誤差精度 Resistance Tolerance | ±1%, ±2%, ±5%, 跨接電阻 Jumper: ≤50mΩ | |
| 阻值範圍 Resistance Range | 0Ω (跨接電阻Jumper)、 $1.0\Omega{\sim}10M\Omega$ E $-24系列$ | |
| 使用温度範圍 Operating Temperature Range | −55℃~125℃ | |
| 額定温度 Rated Temperature | +70℃ | |

* 注: 額定電壓 = √額定功率 × 標稱電阻值 或最大工作電壓中的較小值。

Note: Rated Voltage= $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$ or Max. Working Voltage, whichever is lower.



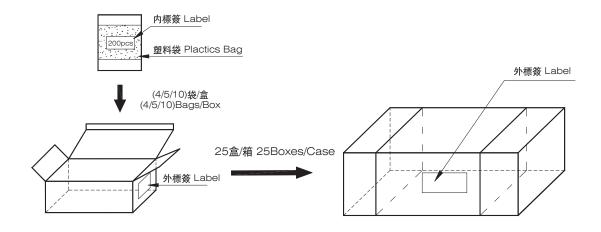
• 特性 CHARACTERISTICS

| 項目 Item | 標 准 Specifications | 測試方法(GB/T 15654-1995) Test Methods (GB/T 15654-1995) |
|--|--|--|
| 電阻温度系數 T. C. R | 在規定值内 Within the specified T.C.R | 測定範圍: -55℃~125℃ measure between-55℃~125℃ |
| 短時間過負載 Short Time Overload | 無可見損傷,No mechanical damage $\Delta R \leqslant \pm (2.0\% R + 0.05 \Omega)$ 跨接電阻 Jumper; $R \leqslant 50 \text{m}\Omega$ | 2.5倍額定電壓或最大過負荷電壓(取最小者) 保持5秒 2.5×Rated voltage or Max. Overload Voltage, choose the lower, for 5 seconds |
| 包封絶緣阻抗 Coating Insulation Resistane | 100MΩ Min | 施加 500V DC Apply 500V DC |
| 包封絶緣耐電壓 Coating Insulation Withstand Voltage | 無弧光,燃燒及本體被擊穿 No arc, inflammation and damage | 施加500V DC 保持1min Apply 500V DC 1min |
| 可焊性 Solderability | 可焊面積≥95% 95%Cover Min | 260℃±5℃ 2±0.5秒 260℃±5℃ 2±0.5S |
| 耐溶劑性 Resistance to Solvent | 無可見損傷,No mechanical damage Δ R \leq ±(1.0%R+0.05 Ω) 跨接電阻 Jumper: R \leq 50m Ω | 浸入异丙醇溶液 10±1小時,溶液温度爲23±2℃ Dip in isopropyl alcohol solution of 10h ± 1 h the solution temperature of 23 ± 2 ℃. |
| 引綫强度 Pin strength | 無可見損傷, No mechanical damage ΔR< ±(1.0%R+0.05Ω) 跨接電阻 Jumper: R<50mΩ | 將引綫焊接在網絡電阻的受試引出端后, 以10mm/s平挂,拉力到500g止 Speed:10mm/s, pull strength:500g. |
| 抗彎强度 Bending strength | 無可見損傷 No mechanical damage | 端子綫末端負重0.5kg,使電阻器本體與端子綫彎成90°,保持5s,爲一個循環,做2個循環 Force with 0.5kg on the terminal pin,between the resistor and the terminal pin is 90 degree,duration: 5s for 1 cycle。total 2 cycles |
| 耐焊接熱 Resistance to Soldering Heat | 無可見損傷,No mechanical damage ΔR < ±(1.0%R+0.05Ω) 跨接電阻 Jumper: R < 50mΩ | 270℃±5℃ 10±1秒 270℃±5℃ 10s±1s |
| 温度循環 Temperature Cycling | 無可見損傷,No mechanical damage Δ R \leqslant \pm (1.0 %R $+0.05\Omega$) 跨接電阻 Jumper: R \leqslant 50m Ω | -55℃(30分鐘)~常温(2~3分鐘)~125℃ (30分鐘)5個循環 -55℃(30min)~normal temperature (2~3min)~125℃(30min)5cycles |

| 項目 Item | 標 准 Specifications | 測試方法(GB/T 15654-1995) Test Methods (GB/T 15654-1995) |
|--|---|---|
| 穩態濕熱 Steady state humidity | 無可見損傷,No mechanical damage Δ R \leqslant \pm (3.0% R $+$ 0.1 Ω) 跨接電阻 Jumper: R \leqslant 100m Ω | 40℃±2℃ 90%~95%RH1000小時 40℃±2℃ 90%~95%RH1000h |
| 70℃耐久性 Load Life(70℃) | 無可見損傷,No mechanical damage ΔR<±(3.0%R+0.1Ω) 跨接電阻 Jumper: R<100mΩ | 70℃±2℃,1000小時,額定電壓或最大工作電壓兩者中的 較小值, 1.5小時/斷0.5小時 70℃±2℃,1000h,Rated Voltage or Max. Working Voltage, whichever is lower. 1.5h on/0.5h off |
| 上限類别温度耐久性 Endurance at upper temperature | 無可見損傷,No mechanical damage Δ R \leqslant \pm (3.0% R $+0.1$ Ω) 跨接電阻 Jumper: R \leqslant 100m Ω | 125℃ ±2℃ 1000小時 125℃ ±2℃ 1000h |

PACKAGING ● 包裝

* 包裝形式 Packaging style



* 包裝數量 Packaging quantity

| 塑料袋散包裝 Bag | 袋 | 盒 Box | | | 箱 |
|---------------|--------|------------|-------------|--------------|---------------|
| | Bag | 4、5 脚 Pins | 6~11 脚 Pins | 12~14 脚 Pins | Case |
| | 200pcs | 10 Bags | 5 Bags | 4 Bags | 25 boxes Max. |

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