

TECH-MEN ELECTRONICS COMPONENTS

Supply * Sub Assemblies * Taping/ Forming Components Co. Reg. No: 45730100K



THICK FILM CHIP RESISTORS **NETWORKS - CRN164**

晶片排阻

Feature

- 1. High reliability and stability.
- 2. Reduced size of final equipment.
- 3. Lower assembly cost and higher surface mounted efficiency. 3. 低裝配費用 · 高面積的鑲嵌效能。
- 4. Higher component and equipment reliability.

Application

- 1. Consumer electrical equipment, PDA, Digital Camcoder.
- 2. EDP, Computer application.
- 3. Mobile phone Telecom.
- 4. DIMM.

Description and Physical Dimensions

The resistors array is constructed in a high grade ceramic bod (aluminum oxide) Internal metalElectrodes are added at eachend connected by a resistive paste that is applied to the top surface Of the substrate The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance by laser cutting of this resistive layer.

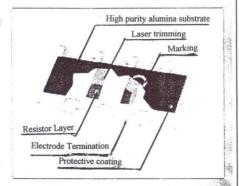
The resistive layer is covered with a protective coat Finally the two external end terminations are Added For ease of soldering the outer layer of these end terminations is Lead-tin or Tin solder alloy Marking code description is depended on component size and tolerance Following figure shown the Construction of a Chip-R array.

特性

- 1. 性能極安定,具高度性賴性。
- 2. 體積小適用高精密電子產品。
- 4. 較精密的電子零件和高產品穩定性。

應用

- 1. 消費性電子產品,如個人數位助理(PDA) 數位攝錄影機。
- 2. 電子資料處理器(EDP)電腦週邊產品。
- 3. 手機、電性。
- 4. 記憶體模組(DIMM)。



SPECIFICATION

| REQUIREMENTS | CHARACTERISTICS | TEST METHOD | | | | |
|-------------------------|-----------------|---------------------------------------------------------------|--|--|--|--|
| Short time Over-load | ±(2%+0.05O) | Rated Voltage ∞.5,5 seconds | | | | |
| Soldering Heat | ±(1%+0.05O) | 260±5°C,10±1 seconds | | | | |
| Temperature Cycling | ±(1%+0.05O) | 125°C(30min)→normal(15min)→-30°C(30min) normal(15min),5cycles | | | | |
| Moisture Load-Life | ±(2%+0.05O) | Rated Voltage,40°±2°C,90~95%RH,1000 ⁺⁴⁸ Hrs | | | | |
| Load-Life | ±(3%+0.10) | Rated Voltage,70°±3°C,1000 ⁺⁴⁸ Hrs | | | | |

RATINGS

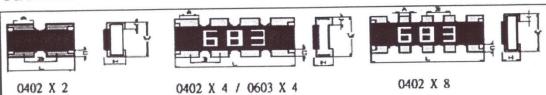
| TYPE | POWER RATING AT 70°C | RATE CURRENT OF JUMPER(A) | MAX WORKING VOLTAGE(VW) | MAX OVER LOAD VOLTAGE(V0) | TCR (PPM/°C) | RESISTANCE TOLERANCE (%) | RESISTANCE RANGE (0) | OPERATING TEMPERATURE ('C) |
|--------------|----------------------------|---------------------------------|-------------------------------|---------------------------------|-----------------|--------------------------------|----------------------------|----------------------------------|
| 0402*2 1/16W | 1A | 25V | 50V | ±200 | Jumper | 50m以下 | -55℃ ~+125℃ | |
| | | | | | 5% | 100~1M | | |
| 0402*4 1/16W | 1A | 25V | 50V | ±200 | Jumper | 50m以下 | 55°C ~+125°C | |
| | | | | | 5% | 100~1M | | |
| 0402*8 1/32W | 0.5A | 25V | 50V | ±200 | Jumper | 50m 以下 | -55℃ ~+125℃ | |
| | | | | | 5% | 100~560K | | |
| 0603*4 1/16W | 1A | 50V | 100V | ±200 | Jumper | 50m以下 | -55℃ ~+125℃ | |
| | | | | | 5% | 100~1M | | |



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Outline

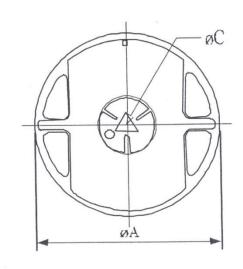


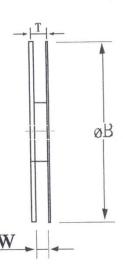
Dimension

| Туре | L(mm) | W(mm) | H(mm) | A(mm) | B(mm) | C(mm) | Y(mm) |
|--------|----------|----------|-----------|----------|-----------|-----------|-----------|
| 0402×2 | 1.00±0.1 | 1.00±0.1 | 0.35±0.1 | 0.25±0.1 | 0.65±0.05 | 0.2±0.1 | 0.25±0.1 |
| 0402×4 | 2.00±0.1 | 1.00±0.1 | 0.45±0.1 | 0.3±0.1 | 0.5±0.05 | 0.22±0.15 | 0.22±0.15 |
| 0402×8 | 3.2±0.15 | 1.6±0.15 | 0.55±0.1 | 0.5±0.15 | 0.8±0.05 | 0.3±0.15 | 0.3±0.15 |
| 0603×4 | 3.2±0.15 | 1.6±0.15 | 0.55±0.15 | 0.35±0.1 | 0.64±0.05 | 0.4±0.15 | 0.4±0.15 |

Real Specification







Unit: mm

| Style | Packing | Tape width | Reel Diameter | ? A | ? B | ? C | w | т |
|------------------|---------|---------------|------------------|-----------|---------|----------|---------|--------|
| 0402×2 0402×4 | Paper | 8mm | 7 inch | 180+0 /-3 | 60+0/-0 | 13.0±0.2 | 9.0±0.3 | 11.4±1 |
| 0402×8 0603×4 | | | 10 inch | 254±1 | 100±1 | 13.0±0.2 | 9.5±0.5 | 13.5±1 |