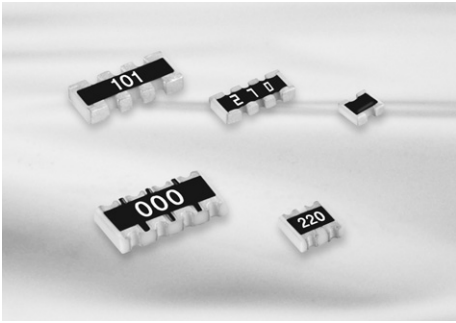# Array

## Feature

- Reducing SMD surface area (40% reduced).
- Reducing SMD costs (75% reduced).
- Both flow and reflow soldering are applicable.
- Convex & concave type.

The product of lead-free terminal is RoHS compliant.
PhO(lead oxide) is included in the glass of our product which is prescribed on RoHS appendix as an exception.
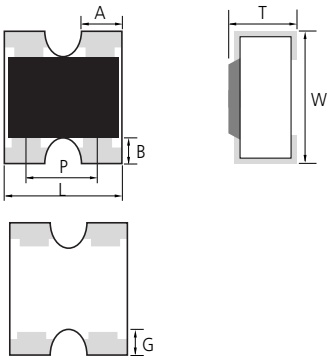
## Application

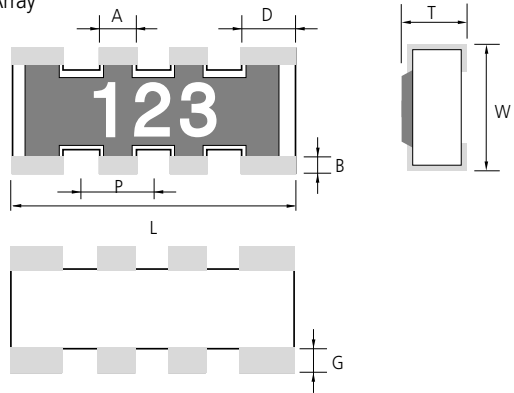- For semiconductor devices.
- For computers, digital circuits.

## Structure and Dimensions
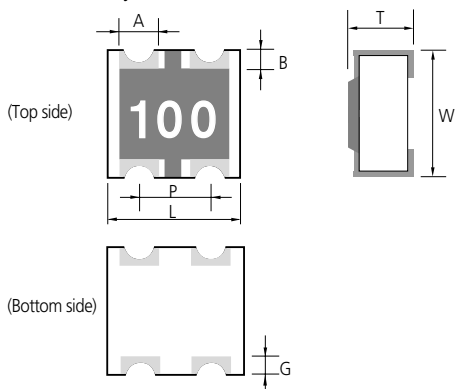
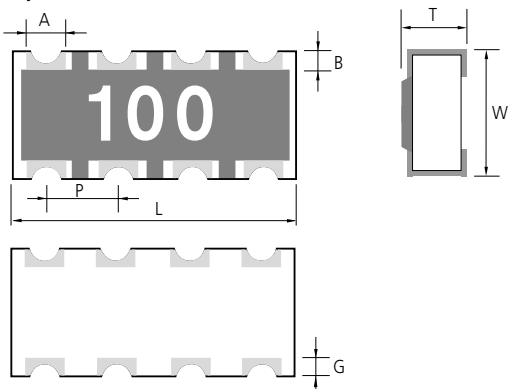(1) CONVEX TERMINAL TYPE

- 2 Array

- 4 Array

(UNIT: mm)

| Type | L | W | T | A | D | B | G | P | Average Weight |
|------|---|---|---|---|---|---|---|---|----------------|
| RP102P | 1.00±0.10 | 1.00±0.10 | 0.35±0.10 | 0.33±0.05 | - | 0.20±0.10 | 0.25±0.10 | 0.65±0.10 | 1.1mg |
| RP104P | 2.00±0.10 | 1.00±0.10 | 0.35±0.10 | 0.30±0.15 | 0.40±0.15 | 0.15±0.10 | 0.25±0.15 | 0.50±0.15 | 2.2mg |
| RP164P | 3.20±0.10 | 1.60±0.10 | 0.50±0.10 | 0.40±0.15 | 0.60±0.15 | 0.30±0.15 | 0.30±0.15 | 0.80±0.15 | 8.9mg |

(2) CONCAVE TERMINAL TYPE

- 2 Array

(Top side)

(Bottom side)

- 4 Array

(UNIT: mm)

| Type | L | W | T | A | B | G | P | Unit Weight |
|------|---|---|---|---|---|---|---|-------------|
| RN102P | 1.00±0.10 | 1.00±0.10 | 0.35±0.10 | 0.30±0.10 | 0.15±0.10 | 0.25±0.15 | 0.5±0.10 | 1.2mg |
| RN104P | 2.00±0.10 | 1.00±0.10 | 0.40±0.10 | 0.30±0.10 | 0.15±0.10 | 0.25±0.15 | 0.5±0.10 | 2.8mg |
| RN162P | 1.60±0.10 | 1.60±0.10 | 0.60±0.10 | 0.45±0.10 | 0.30±0.15 | 0.40±0.15 | 0.80±0.10 | 4.7mg |
| RN164P | 3.20±0.10 | 1.60±0.10 | 0.60±0.10 | 0.45±0.10 | 0.30±0.15 | 0.40±0.15 | 0.80±0.10 | 9.9mg |

## Parts Numbering System

• The part number system shall be in the following format

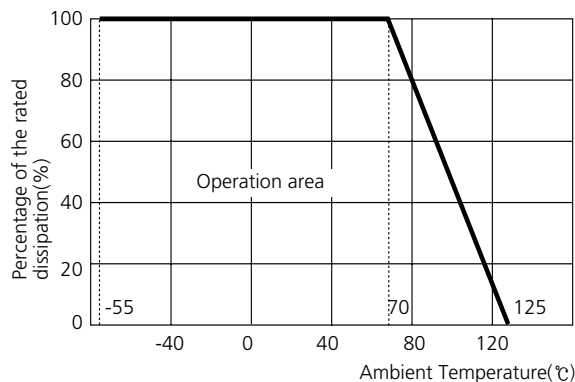| RN | 16 | 4P | J | 1 0 0 | FS |
|---|---|---|---|---|---|
| Code Designation | Dimension | Resistors | Tolerance | Resistance Value | Packaging Code |
| RP: Convex type array<br>RN: Concave type array | 10: 1005<br>16: 1608 | 2P: 2 Pieces<br>4P: 4 Pieces | J: ±5%<br>※Jumper:' J' | 3 digit coding system<br>(IEC coding system)<br>E-24 series | CS : Tape Packaging 7"<br>ES : Tape Packaging 10"<br>FS : Tape Packaging 13"<br>AS : Tape Packaging 13" |

## Specification

| Type | Power Rating (W) | Working Voltage (MAX) | Overload Voltage (MAX) | TCR (ppm/℃) | Resistance Range (Ω) | Rated Ambient Temperature | Rated Working Temperature |
|---|---|---|---|---|---|---|---|
| 102P, 104P | 1/16 | 25(V) | 50(V) | ±250ppm | 1Ω~1MΩ | 70℃ | -55℃~+125℃ |
| 162P, 164P | | 50(V) | 100(V) | ±200ppm | | | |

• Rated voltage (V) = $\sqrt{\text{Rated power(W)} \times \text{Normal resistance value (R)}}$
Rated voltage should be lower than (MAX) working voltage.

## Power Derating Curve

The rated power is the maximum continuous loading power at 70℃ ambient temperature.
For ambient temperature above 70℃, the loading power follows the below power derating curve.
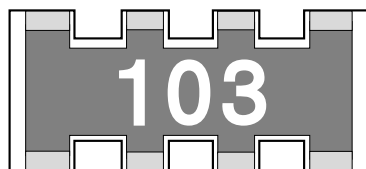(The load current shall be derated according to Derating curve in case of the 'Jumper')



## Jumper Resistors

| Type | Resistance | Current Rating | Rated Ambient Temperature | Rated Working Temperature |
|---|---|---|---|---|
| 102P, 104P | 50mΩ Max. | 1.0(A) | 70℃ | -55℃~+125℃ |
| 162P, 164P | | | | |

## Marking

• 3 digits indication(E-24 series)

  - Left 2 digits represent significant figures.
  - Last 1 digit represents exponential number of 10.
  - Example: 103
        Left 2 digit: 10
        Last 1 digits: 3
              103 = $10 \times 10^3$ =10000 Ω =10kΩ

• RP102P, RN102P, RN104P type : No marking.



※Jumper chip is printed as "000".

Design and Specifications are subject to change without prior notice.
Please ask the manufacturer for technical Specifications before you order and/or use.

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for* samsung *manufacturer:*

Other Similar products are found below :

DA61-04475B  DA97-17194A  RC2012F2001CS  CL10B472JB8NNND  KM44C4100BK-60  CL05C160JB5NCNC  CL21C151FBANNWC  M471B5673EH1-CH900  K4H510838B-TCB3  RC1608F86R6CS  CL31C120JBCNNNC  CL21CR47BBANNNC  CL10B104JO8NNNC  CL32C103JBFNNNE  CL31B223JBCNNNC  CL21C221JDCNFNC  CL21B223KBANNWC  CL10B563KB8NFNC  CL10B473KB8SFNC  CL10B122KB8NFNC  SI-B8T171550WW  SL-B8V2N70LAWW  BN96-35590A  BN96-31876D  DC97-15103A  DA67-02638B  BN96-32239D  BN39-02189A  BN39-02190A  DA61-08574A  DA97-17215A  DC47-00027F  AH59-02748B  3903-001209  RC1005F103CS  RF062PJ150CS  CL10A335MQ8NNNC  CL10B823KA8NNNC  CL10C680JB8NFNC  CL31B681KHFNFNE  CL31C101JCCNFNC  RC1608F753CS  RC1005FR100CS  CL10F334ZO8NNNC  CL31C331KBCNBNC  CL31B683KBCNNNC  CL21C2R4CBANNNC  CL05B104MP5NNNC  DC97-16350E  AH81-09068A