

### Product Search Data Sheet

Note: This datasheet may be out of date.

Please download the latest datasheet of NCP21XQ102J03RA from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=NCP21XQ102J03RA

# NCP21XQ102J03RA









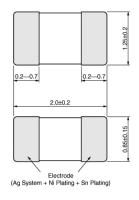
## **Applications**

| Unsuitable               | Please be sure to read and comply with     |
|--------------------------|--|
| Applications             | these "Precautions for use."               |
|                          | Consumer equipment                         |
|                          | Please refer to Our Website and            |
|                          | specifications, etc. for information about |
| Specific                 | the performance, functions, quality,       |
| Specific<br>Applications | management, and safety required for        |
|                          | the above applications, and use            |
|                          | Products after confirming the              |
|                          | performance and reliability of the actual  |
|                          | Product.                                   |



## Appearance & Shape







## Packaging Information

| Packaging | Specifications      | Standard<br>Packing<br>Quantity |
|-----------|---------------------|---------------------------------|
| RA        | 180mm Embossed Tape | 4000                            |



### **Features**

- 1. Excellent solderability and high stability in environment
- 2. Excellent long time aging stability
- 3. High accuracy in resistance and B-constant
- 4. Flow / Reflow soldering possible
- 5. Same B-Constant in the same resistance in the three sizes (0805 size / 0603 size / 0402 size)

Easy to use smaller size in the circuits

- 6. Lead is not contained in the product.
- 7. UL/cULcertified product. (UL1434, File No. E137188)

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### Attention

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(in mm)

2. This datasheet has only typical specifications because there is no space for detailed specifications.

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# **Specifications**

| Resistance (25°C)                         | 1kΩ            |
|---|----------------|
| Resistance Value Tolerance<br>(at 25°C)   | ±5%            |
| B-Constant (25/50°C)                      | 3650K          |
| B-Constant (25/50°C)<br>Tolerance         | ±3%            |
| B-Constant(25/80°C)<br>(Reference Value)  | 3688K          |
| B-Constant(25/85°C)<br>(Reference Value)  | 3693K          |
| B-Constant(25/100°C)<br>(Reference Value) | 3706K          |
| Max. Voltage                              | 5V             |
| Maximum Operating Current (25°C)          | 0.447mA        |
| Typical Dissipation Constant (25°C)       | 2mW/°C         |
| Operating Temperature<br>Range            | -40°C to 125°C |
| Size Code (in mm)                         | 2.0x1.25mm     |
| Size Code (in inch)                       | 0.8x0.5inch    |
| Shape                                     | SMD            |
| Mass                                      | 0.0094g        |
| MSL                                       | 1              |

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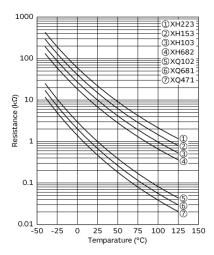
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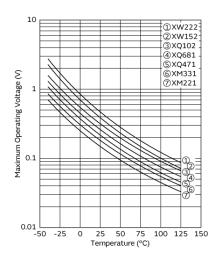
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## **Product Data**







Maximum Operating Voltage Reduction Characteristics

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