

#### Product Search Data Sheet

Note: This datasheet may be out of date. Please download the latest datasheet of NCP18XQ681J03RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=NCP18XQ681J03RB

## NCP18XQ681J03RB











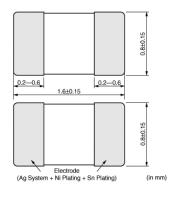
## **Applications**

| 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     | management, and safety required for        |
| Applications | 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 |
|-----------|------------------|---------------------------------|
| RB        | 180mm Paper 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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## **Specifications**

| Resistance (25°C)                         | 680Ω           |
|-------------------------------------------|----------------|
| Resistance Value Tolerance (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)          | 0.383mA        |
| Typical Dissipation Constant (25°C)       | 1mW/°C         |
| Operating Temperature<br>Range            | -40°C to 125°C |
| Size Code (in mm)                         | 1.6x0.8mm      |
| Size Code (in inch)                       | 0.6x0.3inch    |
| Shape                                     | SMD            |
| Mass                                      | 0.0047g        |
| MSL                                       | 1              |

- Glossary of NTC thermistors
- > Related documents (UL, RoHS, etc.)

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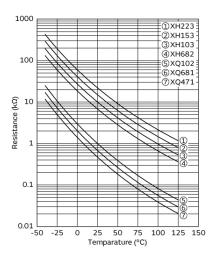
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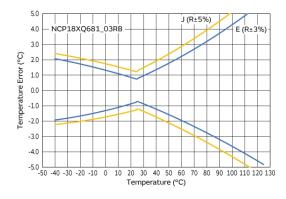
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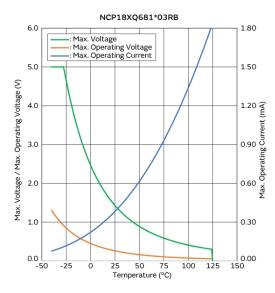


## **Product Data**



Resistance-Temperature Characteristics





Max. Voltage, Max. Operating Voltage/Current **Reduction Curve** 

Temperature Error Characteristics

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