

Product Search Data Sheet

Note: This datasheet may be out of date. Please download the latest datasheet of NCP18XQ471J03RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=NCP18XQ471J03RB

NCP18XQ471J03RB











Applications

Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
Specific Applications	Consumer equipment	
	Please refer to Our Website and	
	specifications, etc. for information about	
	the performance, functions, quality,	
	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 Packing 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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NCP18XQ471J03RB



Specifications

Resistance (25°C) 470Ω Resistance Value Tolerance (at 25°C) ±5% B-Constant (25/50°C) 3650K B-Constant (25/50°C) ±2% Tolerance ±2% B-Constant(25/80°C) 3688K Reference Value) 3693K B-Constant(25/85°C) 3693K Reference Value) 3706K Max. Voltage 5V Maximum Operating Current (25°C) 0.609mA Typical Dissipation Constant (25°C) 1mW/°C Operating Temperature 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		I	
#5% B-Constant (25/50°C) 3650K B-Constant (25/50°C) #2% B-Constant (25/50°C) #2% B-Constant (25/50°C) #2% B-Constant(25/80°C) 3688K B-Constant(25/85°C) 3693K B-Constant(25/100°C) 3706K B-Constant(25/100°C) 3706K Max. Voltage 5V Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Ange 40°C to 125°C Size Code (in inch) 0.6x0.3inch Shape SMD Mass 0.0047g	Resistance (25°C)	470Ω	
(at 25°C) 3650K B-Constant (25/50°C) ±2% Tolerance ±2% B-Constant(25/80°C) 3688K (Reference Value) 3693K B-Constant(25/85°C) 3693K (Reference Value) 3706K B-Constant(25/100°C) 3706K (Reference Value) 5V Max. Voltage 5V Maximum Operating Current (25°C) 0.609mA Typical Dissipation Constant (25°C) 1mW/°C Operating Temperature 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	Resistance Value Tolerance	±5%	
B-Constant (25/50°C) Tolerance B-Constant(25/80°C) (Reference Value) B-Constant(25/85°C) (Reference Value) B-Constant(25/100°C) (Reference Value) 3693K B-Constant(25/100°C) (Reference Value) Max. Voltage 5V Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) 1.6x0.8mm Size Code (in inch) 0.60047g Mass 0.0047g	(at 25°C)		
Tolerance B-Constant(25/80°C) (Reference Value) B-Constant(25/85°C) (Reference Value) B-Constant(25/100°C) (Reference Value) 3706K Max. Voltage 5V Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass 0.0047g	B-Constant (25/50°C)	3650K	
Tolerance B-Constant(25/80°C) (Reference Value) B-Constant(25/85°C) (Reference Value) B-Constant(25/100°C) (Reference Value) B-Constant(25/100°C) (Reference Value) Max. Voltage Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) 1.6x0.8mm Size Code (in inch) Shape SMD Mass 0.0047g	B-Constant (25/50°C)	+2%	
Reference Value) B-Constant(25/85°C) (Reference Value) B-Constant(25/100°C) (Reference Value) Max. Voltage Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass Mass 3693K 3693K 3693K 3706K 3706K 3706K 1706	Tolerance	1270	
B-Constant(25/85°C) (Reference Value) B-Constant(25/100°C) (Reference Value) Max. Voltage Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass 0.609mA 1mW/°C -40°C to 125°C SMD Mass 0.0047g	` ′	3688K	
(Reference Value) B-Constant(25/100°C) (Reference Value) Max. Voltage 5V Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) 1.6x0.8mm Size Code (in inch) Shape SMD Mass 0.0047g			
B-Constant(25/100°C) (Reference Value) Max. Voltage 5V Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) 1.6x0.8mm Size Code (in inch) 0.6x0.3inch Shape SMD Mass 0.0047g	` ′	3693K	
(Reference Value) Max. Voltage 5V Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass 3706K 5V 0.609mA 1mW/°C -40°C to 125°C 1.6x0.8mm 0.6x0.8mm 0.6x0.3inch SMD	/		
Max. Voltage 5V Maximum Operating Current (25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass 5V 0.609mA 1mW/°C -40°C to 125°C 1.6x0.8mm 0.6x0.3inch SMD	` ′	3706K	
Maximum Operating Current (25°C) 0.609mA Typical Dissipation Constant (25°C) 1mW/°C Operating Temperature 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	(Reference Value)		
(25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass 0.609mA 1mW/°C 1mW/°C -40°C to 125°C 8.609mA 1.609mA 1.609mmA 1.609mm 1.609mmA 1.609mm 1.609mm		5V	
(25°C) Typical Dissipation Constant (25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass Mass Mass	Maximum Operating Current	0.609mA	
(25°C) Operating Temperature Range Size Code (in mm) Size Code (in inch) Shape Mass 1mW/°C -40°C to 125°C 1.6x0.8mm 0.6x0.3inch SMD	(25°C)	0.00011111	
(25°C) Operating Temperature Range Size Code (in mm) 1.6x0.8mm Size Code (in inch) 0.6x0.3inch Shape SMD Mass 0.0047g	Typical Dissipation Constant	1mW/°C	
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			
Size Code (in mm) 1.6x0.8mm Size Code (in inch) 0.6x0.3inch Shape SMD Mass 0.0047g		-40°C to 125°C	
Size Code (in inch) 0.6x0.3inch Shape SMD Mass 0.0047g	Range		
Shape SMD Mass 0.0047g	Size Code (in mm)	1.6x0.8mm	
Mass 0.0047g	Size Code (in inch)	0.6x0.3inch	
	Shape	SMD	
MSL 1	Mass	0.0047g	
	MSL	1	

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

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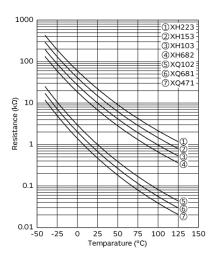
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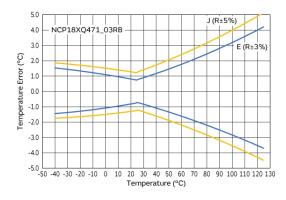
NCP18XQ471J03RB



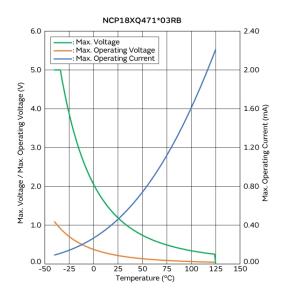
Product Data



Resistance-Temperature Characteristics



Temperature Error Characteristics



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

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