

NCU18XH103D6SRB

Recommended

In Production

NCU18XH103D6SRB



There is also "narrow pitch paper taping" that halves the amount of packaging material used by halving the pocket pitch of taping. Please refer to the packaging information for details.

Applications

Unsuitable Applications	Please be sure to read and comply with these " Precautions for use ".
Specific Applications	<u>Automotive powertrain/safety equipment</u> 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.

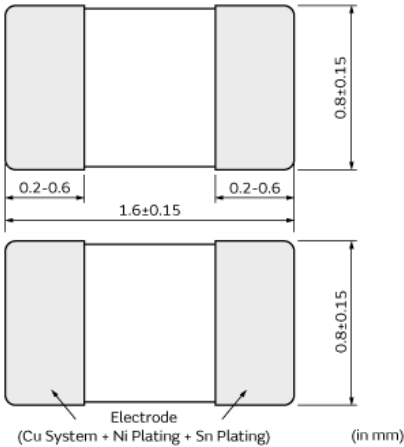
Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2. This datasheet has only typical specifications because there is no space for detailed specifications.
- Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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Appearance & Shape



LW Size (in inch)

0.6x0.3inch

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Specifications

Resistance (25°C)	10kΩ
Resistance Value Tolerance (at 25°C)	±0.5%
B-Constant (25/50°C)	3,380K
B-Constant (25/50°C) Tolerance	±0.5%
B-Constant(25/80°C)(Reference Value)	3,428K
B-Constant(25/85°C)(Reference Value)	3,434K
B-Constant(25/100°C)(Reference Value)	3,455K
Max. Voltage	5V
Maximum Operating Current (25°C)	0.1mA
Typical Dissipation Constant (25°C)	1mW/°C
Operating Temperature	-55 ~ 150°C
Shape	SMD
MSL	1

Glossary of NTC thermistors

Related documents (UL, RoHS, etc.)

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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 (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)

References

Packaging	Specifications ?	Standard Packing Quantity
RB	180mm Paper Tape (Pitch width 4mm)	4000
NB	180mm narrow pitch paper tape (Pitch width 2mm)	8000

Mass(Typ.)	
1 piece	0.0047g

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Figure 10 is a line graph titled "Temperature Error vs. Temperature for NCU18XH103_RB". The y-axis is labeled "Temperature Error (°C)" and ranges from -5.0 to 5.0 in increments of 1.0. The x-axis is labeled "Temperature (°C)" and ranges from -60 to 150 in increments of 10. The graph shows six data series representing different temperature error ranges:

- J (R±5%)
- E (R±3%)
- F (R±1%)
- F (R±1%, B±0.5%)
- D (R±0.5%)
- Unlabeled series (R±1%)

The graph illustrates how the temperature error varies with the actual temperature. The error generally increases with temperature, with the J series showing the largest positive error and the D series showing the largest negative error at high temperatures.

The graph shows the relationship between temperature and three key electrical parameters for the NCU18XH103*6S/B5RB device. The x-axis represents Temperature in degrees Celsius, ranging from -60 to 160. The left y-axis represents both Maximum Voltage (V) and Maximum Operating Voltage (V), ranging from 0.0 to 6.0. The right y-axis represents Maximum Operating Current (mA), ranging from 0.00 to 0.60. The legend indicates three data series: Max. Voltage (green line), Max. Operating Voltage (orange line), and Max. Operating Current (blue line).

Temperature (°C)	Max. Voltage (V)	Max. Operating Voltage (V)	Max. Operating Current (mA)
-60	5.0	5.0	0.00
-40	5.0	4.0	0.01
-20	5.0	2.5	0.02
0	5.0	1.5	0.04
20	5.0	1.0	0.07
40	5.0	0.7	0.12
60	5.0	0.5	0.18
80	5.0	0.35	0.25
100	5.0	0.25	0.35
120	5.0	0.18	0.45
140	1.5	0.12	0.55
160	0.0	0.0	0.60

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