

Product Search Data Sheet

Note: This datasheet may be out of date.

Please download the latest datasheet of PRF18BD471QB5RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=PRF18BD471QB5RB

PRF18BD471QB5RB











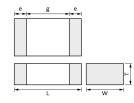
Applications

| Unsuitable | Please be sure to read and comply with | | |
|--------------------------|--------------------------------------------|--|--|
| Applications | these "Precautions for use." | | |
| Specific Applications | Consumer equipment,Industrial | | |
| | Equipment,Medical equipment [GHTF | | |
| | A/B] | | |
| | 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





| Part Number | Dimensions (mm) | | | | |
|-------------|-----------------|----------|----------|------------|----------|
| Part Number | L | W | Т | е | g |
| PRF03_RL | 0.6±0.05 | 0.3±0.05 | 0.3±0.05 | 0.1 to 0.2 | - |
| PRF15_RC | 1.0±0.05 | 0.5±0.05 | 0.5±0.05 | 0.1 to 0.4 | 0.3 min. |
| PRF18_RB | 1.6±0.15 | 0.8±0.15 | 0.8±0.15 | 0.1 to 0.6 | - |
| PRF21_RA | 2.0±0.2 | 1.25±0.2 | 0.9±0.2 | 0.2 min. | 0.5 min. |



Packaging Information

| Packaging | Specifications | Standard Packing Quantity |
|-----------|-----------------------|---------------------------------|
| RB | 180mm Paper Tape 4000 | |



Features

- 1. SMD type is helpful for miniaturizing circuits because of its small size and light weight.
- 2. Excellent thermal response due to small size
- 3. Solid-state construction provides excellent mechanical vibration and impact resistance.
- 4. Contactless operation provides noiseless operation.
- 5. Lead is not contained in the terminations.
- 6. UL/cULcertified product. (UL1434, File No. E137188)

1 of 3

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.





PRF18BD471QB5RB

Note: This datasheet may be out of date.

Please download the latest datasheet of PRF18BD471QB5RB from the official website of Murata

Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=PRF18BD471QB5RB



Specifications

| Max. Voltage | 32V |
|------------------------------------------------|----------------|
| Sensing Temperature | 95℃ |
| Sensing Temperature Tolerance | ±5°C |
| Measure Condition of Sensing Temperature | at 4.7k ohm |
| Sensing Temperature(2) | 110℃ |
| Sensing Temperature (2) Tolerance | ±7°C |
| Measure Condition of Sensing Temperature(2) | at 47k ohm |
| Resistance (25°C) | 470Ω |
| Resistance Value Tolerance (at 25°C) | ±50% |
| Operating Temperature Range | -20°C to 120°C |
| Size Code (in mm) | 1.6x0.8mm |
| Size Code (in inch) | 0.6x0.3inch |
| Shape | SMD |
| Mass | 0.004g |
| MSL | 1 |

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

2 of 3

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.

 $2. This \ data{sheet has only typical specifications because there is no \ space for \ detailed \ specifications.}$

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.



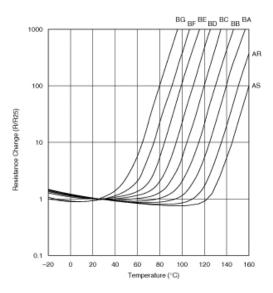
Note: This datasheet may be out of date. Please download the latest datasheet of PRF18BD471QB5RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=PRF18BD471QB5RB

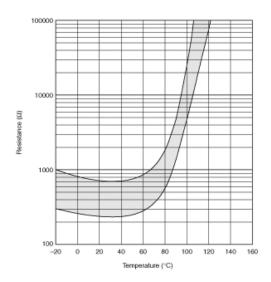
PRF18BD471QB5RB



Product Data



Resistance-Temperature Characteristics



Resistance-Temperature Characteristics Range (Reference)

3 of 3

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.

