

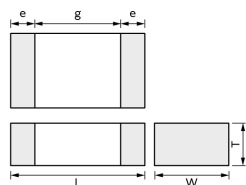
# PRF18BB471RS5RB



## Applications

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                               |
| Specific Applications   | Automotive infotainment/comfort equipment<br>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) |          |          |            |          |
|-------------|-----------------|----------|----------|------------|----------|
|             | L               | W        | T        | e          | 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. Sensing accuracy +/-3 deg.C which is highest of PTC Thermistor and the same level as NTC at sensing point.
2. Same resistance - temperature characteristics as PRF18\_QS series. Easy to use higher accurate sensing type.
3. SMD type is helpful for miniaturizing circuits because of its small size and light weight.
4. Excellent thermal response due to small size
5. Solid - state construction provides excellent mechanical vibration and impact resistance.
6. Contactless operation provides noiseless operation.
7. Lead is not contained in the terminations.
8. UL/cULcertified product. (UL1434, File No. E137188)

### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its 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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## Specifications

|                                             |                |
|---------------------------------------------|----------------|
| Max. Voltage                                | 32V            |
| Sensing Temperature                         | 115°C          |
| Sensing Temperature Tolerance               | ±3°C           |
| Measure Condition of Sensing Temperature    | at 4.7k ohm    |
| Sensing Temperature(2)                      | 130°C          |
| 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                 | -40°C to 150°C |
| Size Code (in mm)                           | 1.6x0.8mm      |
| Size Code (in inch)                         | 0.6x0.3inch    |
| Shape                                       | SMD            |
| Mass                                        | 0.004g         |
| MSL                                         | 1              |

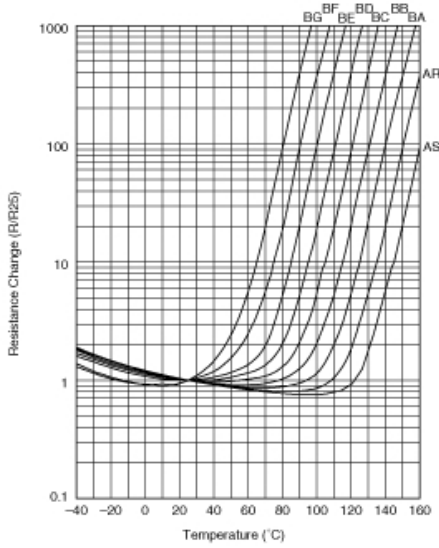
- > Glossary of PTC thermistors
- > Related documents (UL, RoHS, etc.)

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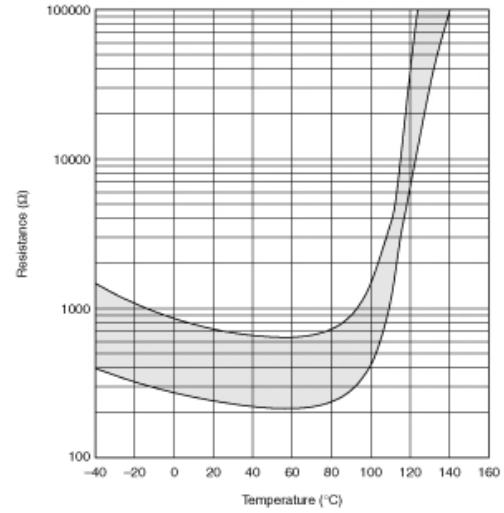
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## Product Data



Resistance-Temperature Characteristics



Resistance-Temperature Characteristics Range (Reference)

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