

# PRF18BD471QS5RB



## 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. |

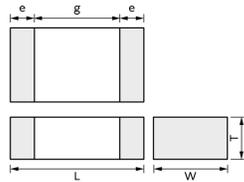
## Packaging Information

| 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)

## 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. |

**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                         | 95°C           |
| Sensing Temperature Tolerance               | ±5°C           |
| Measure Condition of Sensing Temperature    | at 4.7k ohm    |
| Sensing Temperature(2)                      | 110°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              |

### Attention

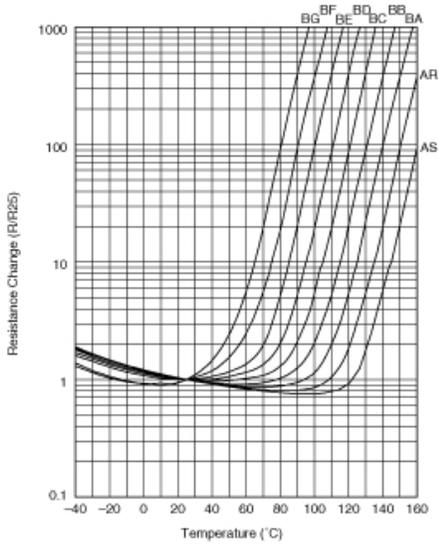
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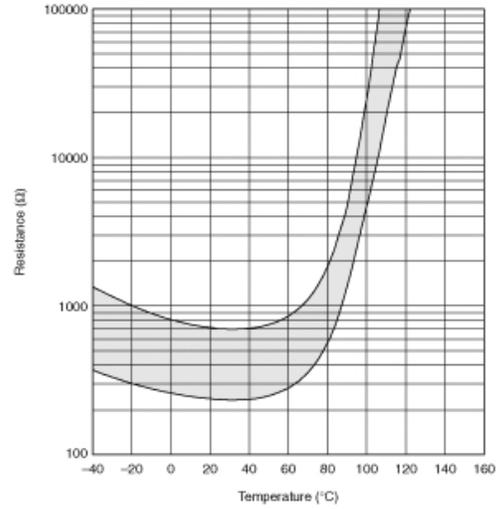
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## Product Data



Resistance-Temperature Characteristics



Resistance-Temperature Characteristics Range (Reference)

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