

Note: This datasheet may be out of date. Please download the latest datasheet of PRF18AR471QB1RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=PRF18AR471QB1RB

## PRF18AR471QB1RB









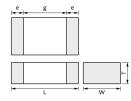
### **Applications**

| Unsuitable               | Please be sure to read and comply with     |  |  |
|--------------------------|--|--|--|
| Applications             | these "Precautions for use."               |  |  |
| Specific<br>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 400 |                           |  |



#### **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 resistance to mechanical vibration and impact resistance.
- 4. Contactless operation provides noiseless operation.
- 5. UL/cULcertified product. (UL1434, File No. E137188)

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## **Specifications**

| Max. Voltage                                   | 32V            |
|--|----------------|
| Sensing Temperature                            | 135°C          |
| Sensing Temperature Tolerance                  | ±5°C           |
| Measure Condition of<br>Sensing Temperature    | at 4.7k ohm    |
| Sensing Temperature(2)                         | 150℃           |
| Sensing Temperature (2) Tolerance              | ±7°C           |
| Measure Condition of<br>Sensing Temperature(2) | at 47k ohm     |
| Resistance (25°C)                              | 470Ω           |
| Resistance Value Tolerance (at 25°C)           | ±50%           |
| Operating Temperature<br>Range                 | -20°C to 160°C |
| Size Code (in mm)                              | 1.6x0.8mm      |
| Size Code (in inch)                            | 0.6x0.3inch    |
| Shape  | SMD            |
| Mass   | 0.004g         |
| MSL  | 1              |

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#### Product Search Data Sheet

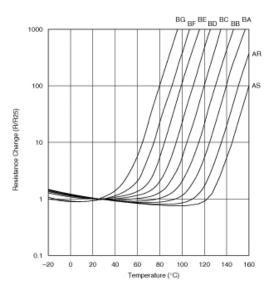
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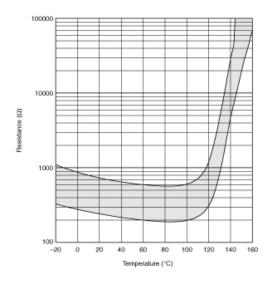
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#### **Product Data**



Resistance-Temperature Characteristics



Resistance-Temperature Characteristics Range (Reference)

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