

### **Product Search Data Sheet**

Note: This datasheet may be out of date. Please download the latest datasheet of PRF18BD471RB5RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=PRF18BD471RB5RB

# PRF18BD471RB5RB











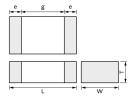
### **Applications**

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		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 QB5RB 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)

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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	±3°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	-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.)

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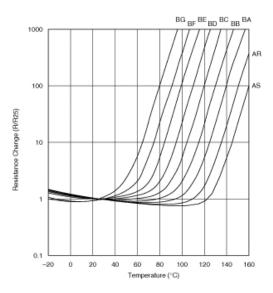
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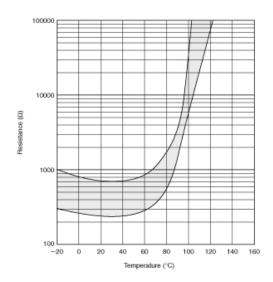
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## **Product Data**



Resistance-Temperature Characteristics



Resistance-Temperature Characteristics Range (Reference)

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