

Note: This datasheet may be out of date. Please download the latest datasheet of PRF18BC471RS5RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=PRF18BC471RS5RB

# PRF18BC471RS5RB













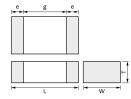
### **Applications**

Unsuitable	Please be sure to read and comply with		
Applications	these "Precautions for use."		
	Automotive infotainment/comfort		
	equipment		
	Please refer to Our Website and		
	specifications, etc. for information about		
Specific	the performance, functions, quality,		
Applications	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. 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)

1 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





Note: This datasheet may be out of date. Please download the latest datasheet of PRF18BC471RS5RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=PRF18BC471RS5RB

# PRF18BC471RS5RB



# **Specifications**

Max. Voltage	32V		
Iviax. Voltage	02.0		
Sensing Temperature	105°C		
Sensing Temperature	±3°C		
Tolerance			
Measure Condition of	at 4.7k ohm		
Sensing Temperature	4.77. 611111		
Sensing Temperature(2)	120℃		
Sensing Temperature (2)	±7°C		
Tolerance			
Measure Condition of	at 47k ohm		
Sensing Temperature(2)	at 47 K OHHI		
Resistance (25°C)	470Ω		
Resistance Value Tolerance	±50%		
(at 25°C)			
Operating Temperature	-40°C to 150°C		
Range	1-40 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.)

2 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.



### Product Search Data Sheet

Please download the latest datasheet of PRF18BC471RS5RB from the official website of Murata Manufacturing Co., Ltd.

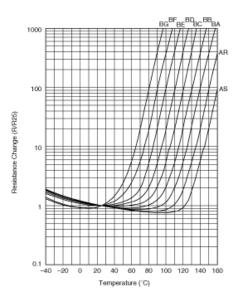
http://www.murata.com/en/products/productdetail?partno=PRF18BC471RS5RB

Note: This datasheet may be out of date.

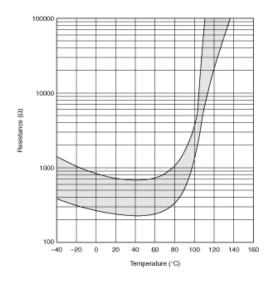
# PRF18BC471RS5RB



### **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.

