

### Product Search Data Sheet

Please download the latest datasheet of PRG18BB221MB1RB from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=PRG18BB221MB1RB

Note: This datasheet may be out of date.

# PRG18BB221MB1RB











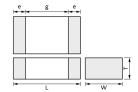
# **Applications**

| Unsuitable                          | Please be sure to read and comply with  |
|-------------------------------------|---|
| Applications                        | these "Precautions for use."  |
| Applications  Specific Applications | these "Precautions for use."  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) |           |           |              |          |  |
| Pait Nullibei | L               | W         | Т         | е            | g        |  |
| PRG03_RL      | 0.60±0.05       | 0.30±0.05 | 0.30±0.05 | 0.10 to 0.20 | -        |  |
| PRG15_RC      | 1.0±0.05        | 0.5±0.05  | 0.5±0.05  | 0.15 to 0.40 | -        |  |
| PRG18_RB      | 1.6±0.15        | 0.8±0.15  | 0.8±0.15  | 0.1 to 0.6   | -        |  |
| PRG21_RA      | 2.0±0.2         | 1.25±0.2  | 0.9±0.2   | 0.2 min.     | 0.5 min. |  |
| PRG21_RK      | 2.0±0.2         | 1.25±0.2  | 1.25±0.2  | 0.2 min.     | 0.5 min. |  |



## Packaging Information

|  | Packaging | Specifications   | Standard<br>Packing<br>Quantity |
|--|-----------|------------------|---------------------------------|
|  | RB        | 180mm Paper Tape | 4000                            |



### **Features**

1. Rapid operation to protect the circuit in an overcurrent condition abnormality such as a short circuit.

By removing the overcurrent condition, these products automatically return to the initial condition and can be used repeatedly.

- 2. Suitable for countermeasure to short circuit test in safety
- 3. Stable resistance after operation due to ceramic PTC
- 4. Similar size (0603 size) is possible due to the large capacity for electric power.
- 5. Possible to use these products as current limiting resistors with overcurrent protection functions
- 6. SMD type is helpful for miniaturizing circuits because of its small size and light weight
- 7. UL/cULcertified product.(UL1434, File No. E137188)

1 of 3

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# **Specifications**

| Max. Voltage                             | 24V           |
|--|---------------|
| Hold Current(25°C)                       | 14mA          |
| Hold Current (2)                         | 8mA           |
| Measure Condition of Hold<br>Current (2) | (at +75°C)    |
| Trip Current(25°C)                       | 29mA          |
| Trip Current(2)                          | 36mA          |
| Measure Condition of Trip<br>Current(2)  | (at -20°C)    |
| Max. Current                             | 130mA         |
| Resistance (25°C)                        | 220Ω          |
| Resistance Value Tolerance (at 25°C)     | ±20%          |
| Curie Point(typ.)                        | 100°C         |
| Operating Temperature<br>Range           | -20°C to 75°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

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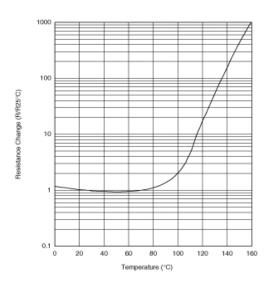
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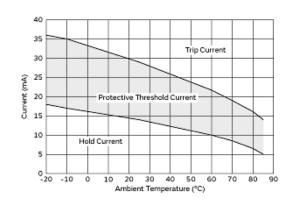
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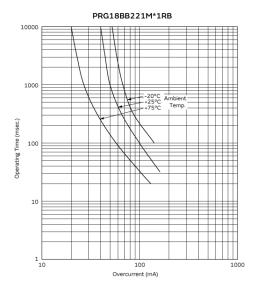


### **Product Data**





### Resistance-Temperature Charac.



### Operating Time (Typical Curve)

Protective Threshold Current Range

3 of 3

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