

# PRG21BC4R7MM1RA

Note: This datasheet may be out of date.

Please download the latest datasheet of PRG21BC4R7MM1RA from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=PRG21BC4R7MM1RA

In Production









### **Applications**

Unsuitable	Please be sure to read and comply with		
Applications	these "Precautions for use."		
Applications  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





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Part Number	Dimensions (mm)					
Part Number	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 Packing Quantity
RA	180mm Embossed 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       30V         Hold Current(25°C)       155mA         Measure Condition of Hold Current (2)       (at +85°C)         Trip Current(25°C)       330mA         Trip Current(2)       420mA         Measure Condition of Trip Current(2)       (at -20°C)         Max. Current       8000mA         Resistance (25°C)       4.7Ω         Resistance Value Tolerance (at 25°C)       ±20%         Curie Point(typ.)       90°C         Operating Temperature Range       -20°C to 85°C         Size Code (in mm)       2.0x1.25mm         Size Code (in inch)       0.8x0.5inch         Shape       SMD         Mass       0.009g         MSL       1		
Hold Current (2) 60mA   Measure Condition of Hold Current (2) (at +85°C)   Trip Current(25°C) 330mA   Measure Condition of Trip Current(2) (at -20°C)   Max. Current 8000mA   Resistance (25°C) 4.7Ω   Resistance Value Tolerance (at 25°C) ±20%   Curie Point(typ.) 90°C   Operating Temperature Range -20°C to 85°C   Size Code (in mm) 2.0x1.25mm   Size Code (in inch) 0.8x0.5inch   Shape SMD   Mass 0.009g	Max. Voltage	30V
Measure Condition of Hold Current (2) (at +85°C)   Trip Current(25°C) 330mA   Measure Condition of Trip Current(2) (at -20°C)   Max. Current 8000mA   Resistance (25°C) 4.7Ω   Resistance Value Tolerance (at 25°C) ±20%   Curie Point(typ.) 90°C   Operating Temperature Range -20°C to 85°C   Size Code (in mm) 2.0x1.25mm   Size Code (in inch) 0.8x0.5inch   Mass 0.009g	Hold Current(25°C)	155mA
Current (2)       (at +85°C)         Trip Current(25°C)       330mA         Measure Condition of Trip Current(2)       (at -20°C)         Max. Current       8000mA         Resistance (25°C)       4.7Ω         Resistance Value Tolerance (at 25°C)       ±20%         Curie Point(typ.)       90°C         Operating Temperature Range       -20°C to 85°C         Size Code (in mm)       2.0x1.25mm         Size Code (in inch)       0.8x0.5inch         Shape       SMD         Mass       0.009g	Hold Current (2)	60mA
Trip Current(2)       420mA         Measure Condition of Trip Current(2)       (at -20°C)         Max. Current       8000mA         Resistance (25°C)       4.7Ω         Resistance Value Tolerance (at 25°C)       ±20%         Curie Point(typ.)       90°C         Operating Temperature Range       -20°C to 85°C         Size Code (in mm)       2.0x1.25mm         Size Code (in inch)       0.8x0.5inch         Shape       SMD         Mass       0.009g	modelar o corruntation or riord	(at +85°C)
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Current(2)       (at -20°C)         Max. Current       8000mA         Resistance (25°C)       4.7Ω         Resistance Value Tolerance (at 25°C)       ±20%         Curie Point(typ.)       90°C         Operating Temperature Range       -20°C to 85°C         Size Code (in mm)       2.0x1.25mm         Size Code (in inch)       0.8x0.5inch         Shape       SMD         Mass       0.009g	Trip Current(2)	420mA
Resistance (25°C)  Resistance Value Tolerance (at 25°C)  Curie Point(typ.)  Operating Temperature Range  Size Code (in mm)  Size Code (in inch)  Shape  Mass  4.7Ω  ±20%  ±20%  ±20%  2.0x1.25mm  0.8x0.5inch  SMD	'	(at -20°C)
Resistance Value Tolerance (at 25°C)  Curie Point(typ.)  Operating Temperature Range  -20°C to 85°C  Size Code (in mm)  2.0x1.25mm  Size Code (in inch)  0.8x0.5inch  Shape  SMD  Mass  0.009g	Max. Current	8000mA
(at 25°C)       ±20%         Curie Point(typ.)       90°C         Operating Temperature Range       -20°C to 85°C         Size Code (in mm)       2.0x1.25mm         Size Code (in inch)       0.8x0.5inch         Shape       SMD         Mass       0.009g	Resistance (25°C)	4.7Ω
Operating Temperature Range  Size Code (in mm)  Size Code (in inch)  Shape  SMD  Mass  0.009g		±20%
-20°C to 85°C	Curie Point(typ.)	90℃
Size Code (in inch)         0.8x0.5inch           Shape         SMD           Mass         0.009g		-20°C to 85°C
Shape SMD  Mass 0.009g	Size Code (in mm)	2.0x1.25mm
Mass 0.009g	Size Code (in inch)	0.8x0.5inch
	Shape	SMD
MSL 1	Mass	0.009g
	MSL	1

- Glossary of PTC thermistors
- Related documents (UL, RoHS, etc.)

2 of 3

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### Product Search Data Sheet

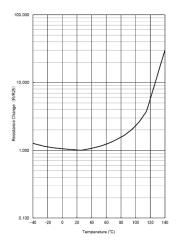
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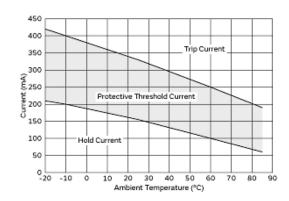
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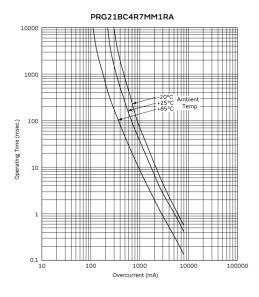
# PRG21BC4R7MM1RA







### Resistance-Temperature Charac.



# Protective Threshold Current Range

Operating Time (Typical Curve)

3 of 3

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