

#### Product Search Data Sheet

Please download the latest datasheet of PRG21AR420MS1RA from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=PRG21AR420MS1RA

Note: This datasheet may be out of date.

# PRG21AR420MS1RA













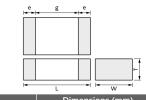
## **Applications**

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





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Part Number	Dimensions (mm)				
Part Nulliber	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)

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#### Attention

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.

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Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering





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# **Specifications**

Max. Voltage	20V
Hold Current(25°C)	54mA
Hold Current (2)	25mA
Measure Condition of Hold Current (2)	(at +85°C)
Hold Current (3)	15mA
Measure Condition of Hold Current (3)	(at +105°C)
Trip Current(25°C)	100mA
Trip Current(2)	130mA
Measure Condition of Trip Current(2)	(at -40°C)
Max. Current	590mA
Resistance (25°C)	42Ω
Resistance Value Tolerance (at 25°C)	±20%
Curie Point(typ.)	120°C
Operating Temperature Range	-40°C to 105°C
Size Code (in mm)	2.0x1.25mm
Size Code (in inch)	0.8x0.5inch
Shape	SMD
Mass	0.011g
MSL	1

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

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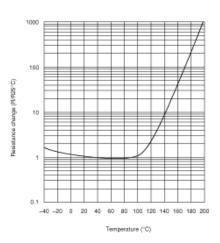
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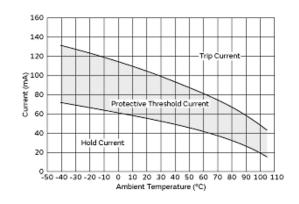
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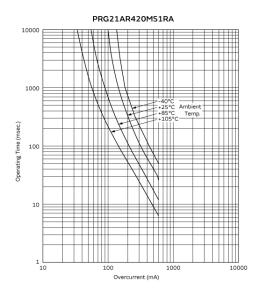


## **Product Data**





### Resistance-Temperature Charac.



## Operating Time (Typical Curve)

## Protective Threshold Current Range

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