

Product Search Data Sheet

Note: This datasheet may be out of date. Please download the latest datasheet of BLM21SP331SZ1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=BLM21SP331SZ1%23

## "#"at the end indicates the package specification code.

BLM21SP331SZ1#

In Production AEC-Q200 RoHS REACH

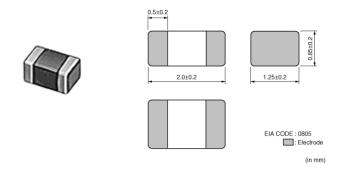
< List of part numbers with package codes > BLM21SP331SZ1B BLM21SP331SZ1D BLM21SP331SZ1J

Applications

Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
Specific Applications	Automotive infotainment/comfort equipment,Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector,Industrial equipment except for transportation & facility & energy equipment 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.	
Recommended	Automotive infotainment/comfort	
Applications	equipment	



Appearance & Shape





# **Packaging Information**

Packaging	Specifications	Standard Packing Quantity
В	Bulk(Bag)	1000
D	180mm Paper Tape	4000
J	330mm Paper Tape	10000



## Features

The chip ferrite beads BLM series is designed to function nearly as a resistor at noise frequencies, which greatly reduces the possibility of resonance and leaves signal wave forms undistorted.

BLM series is effective in circuits without stable ground lines because BLM series does not need a connection to ground.

The nickel barrier structure of the external electrodes provides excellent solder heat resistance. BLM21SP series can be used in high current circuits due to its low DC resistance.

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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.

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

Shape	SMD
Size Code (in inch)	0805
Length	2.0mm
Length Tolerance	±0.2mm
Width	1.25mm
Width Tolerance	±0.2mm
Thickness	0.85mm
Thickness Tolerance	±0.2mm
Operating Temperature Range	-55°C to 125°C
Mass(typ.)	0.01g
Number of Circuit	1
Rated Current (at 85°C)	2.8A
Rated Current (at 125°C)	1.9A
DC Resistance(max.)	0.04Ω
Impedance (at 100MHz)	330Ω
Impedance (at 100MHz) Tolerance	±25%
Size Code (in mm)	2012

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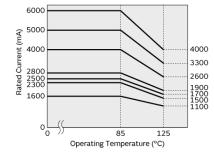
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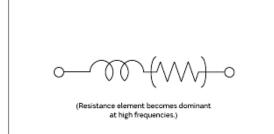
In operating temperature exceeding +85°C, derating of current is necessary for BLM21SP series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Impedance-Frequency Characteristics

### Derating of Rated Current



**Equivalent Circuit** 

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