

## BLM21SP181SH1#

Note: This datasheet may be out of date

Please download the latest datasheet of BLM21SP181SH1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=BLM21SP181SH1%23

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









< List of part numbers with package codes >

BLM21SP181SH1B

BLM21SP181SH1D

BLM21SP181SH1J



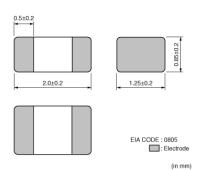
### **Applications**

Unsuitable	Please be sure to read and comply with		
Applications	these "Precautions for use."		
	Automotive powertrain/safety equipment,		
	Automotive infotainment/comfort		
	equipment,Consumer equipment,		
	Medical equipment [GHTF A/B/C]		
	except for implant & surgery & auto		
	injector,Industrial Equipment		
Specific	Please refer to Our Website and		
Applications	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 powertrain/safety equipment		
Applications			



## 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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2. This datasheet has only typical specifications because there is no space for detailed specifications.

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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)	4A
Rated Current (at 125°C)	2.6A
DC Resistance(max.)	0.02Ω
Impedance (at 100MHz)	180Ω
Impedance (at 100MHz) Tolerance	±25%
Size Code (in mm)	2012

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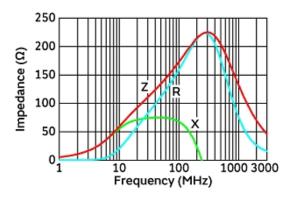
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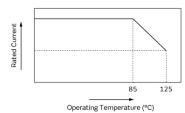
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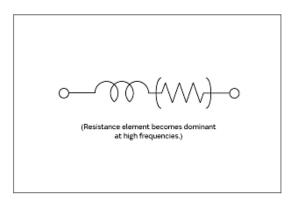


In operating temperature exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Impedance-Frequency Characteristics



**Derating of Rated Current** 

**Equivalent Circuit** 

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