

Note: This datasheet may be out of date. Please download the latest datasheet of BLM03EB500SH1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=BLM03EB500SH1%23

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

In Production AEC-Q200 RoHS REACH

BLM03EB500SH1#

< List of part numbers with package codes > BLM03EB500SH1B BLM03EB500SH1D BL

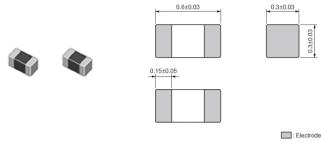
BLM03EB500SH1J



### 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



(in mm)



# Packaging Information

Packaging	Specifications	Standard Packing Quantity
В	Bulk(Bag)	1000
D	180mm Paper Tape	15000
J	330mm Paper Tape	50000



### Features

such as cellular phones.

- 1. Horizontal winding inner coil structure enables low storage capacitance which result to high noise suppression performance.
- Effective in LTE range up to 2.6GHz from 700MHz. 2. Low DC Resistance. Large Rated Current.
- 3. The small size of BLM03E series (0.6x0.3mm) is suitable for noise suppression in small equipment

1 of 3

#### 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





Note: This datasheet may be out of date. Please download the latest datasheet of BLM03EB500SH1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=BLM03EB500SH1%23

# BLM03EB500SH1#

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



# Specifications

Shape	SMD
Size Code (in inch)	0201
Length	0.6mm
Length Tolerance	±0.03mm
Width	0.3mm
Width Tolerance	±0.03mm
Thickness	0.3mm
Thickness Tolerance	±0.03mm
Operating Temperature Range	-55°C to 125°C
Mass(typ.)	0.3mg
Number of Circuit	1
Rated Current (at 85°C)	400mA
Rated Current (at 125°C)	300mA
DC Resistance(max.)	0.58Ω
Impedance (at 100MHz)	50Ω
Impedance (at 100MHz) Tolerance	±25%
Impedance (at 1GHz)	255Ω
Impedance (at 1GHz) Tolerance	±40%
Size Code (in mm)	0603

2 of 3

#### 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.





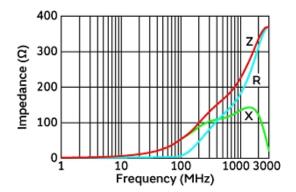
Note: This datasheet may be out of date. Please download the latest datasheet of BLM03EB500SH1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=BLM03EB500SH1%23

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

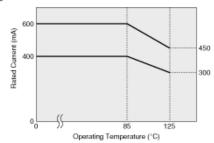


BLM03EB500SH1#



In operating temperature exceeding +85°C, derating of current is necessary for BLM03E 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

(Resistance element becomes dominant at high frequencies.)

**Equivalent Circuit** 

3 of 3

#### 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.

