Note: This datasheet may be out of date.

Please download the latest datasheet of BLM31SN500SN1# from the official website of Murata Manufacturing

https://www.murata.com/en-us/products/productdetail?partno=BLM31SN500SN1%23

## BLM31SN500SN1#

"#" indicates a package specification code.



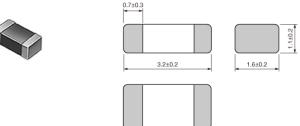




< List of part numbers with package codes > BLM31SN500SN1B BLM31SN500SN1L



## Appearance & Shape





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. BLM31SN series can be used in high current circuits due to its low DC resistance.

It can match power lines to a maximum of 12ADC.



| Other Usage | For general   |  |
|-------------|---------------|--|
| Other Osage | i or gericiai |  |



## Packaging Information

| Packaging | Specifications      | Minimum<br>Order Quantity |
|-----------|---------------------|---------------------------|
| В         | Bulk(Bag)           | 1000                      |
| L         | 180mm Embossed Tape | 3000                      |

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.

: Electrode

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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Co., Ltd. https://www.murata.com/en-us/products/productdetail?partno=BLM31SN500SN1%23

# BLM31SN500SN1#

"#" indicates a package specification code.



| Shape                           | SMD          |
|---------------------------------|--------------|
| Size Code (in mm)               | 3216         |
| Size Code (in inch)             | 1206         |
| Length                          | 3.2mm        |
| Length Tolerance                | ±0.2mm       |
| Width                           | 1.6mm        |
| Width Tolerance                 | ±0.2mm       |
| Thickness                       | 1.1mm        |
| Thickness Tolerance             | ±0.2mm       |
| Impedance (at 100MHz)           | 50Ω          |
| Impedance (at 100MHz) Tolerance | ±12.5Ω       |
| Rated Current (at 85°C)         | 12A          |
| Rated Current (at 125°C)        | 10A          |
| DC Resistance(max.)             | 0.0016Ω      |
| Operating Temperature Range     | -55℃ to 125℃ |
| Mass(typ.)                      | 0.025g       |
| Number of Circuit               | 1            |

2 of 3

#### Attention

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



URL: https://www.murata.com/

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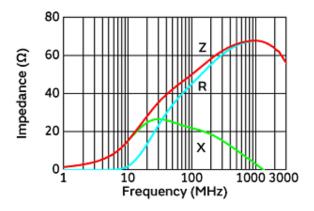
https://www.murata.com/en-us/products/productdetail?partno=BLM31SN500SN1%23

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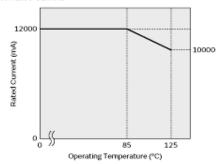
Note: This datasheet may be out of date





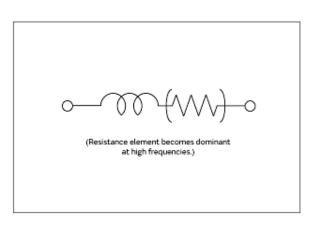
In operating temperature exceeding +85°C, derating of current is necessary for BLM31SN series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Impedance-Frequency Characteristics





**Equivalent Circuit** 

3 of 3

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URL: https://www.murata.com/

## **ПОСТАВКА** ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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#### Офис по работе с юридическими лицами:

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