**muRata**
INNOVATOR IN ELECTRONICS

Product Search Data Sheet

# BLM21SP181SH1#

"#" indicates a package specification code.
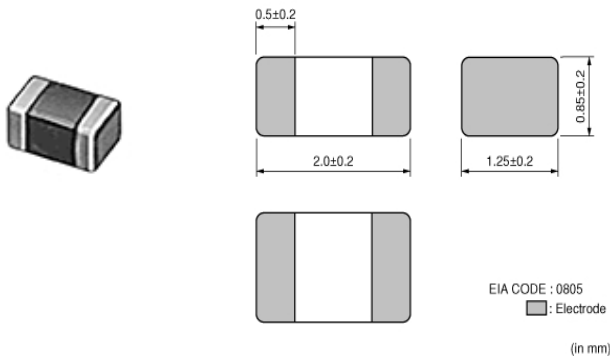
In Production | AEC-Q200 | RoHS | REACH

## < List of part numbers with package codes >

BLM21SP181SH1B          BLM21SP181SH1D          BLM21SP181SH1J

## Appearance & Shape



0.5±0.2
0.85±0.2
2.0±0.2
1.25±0.2

EIA CODE : 0805
▪ : Electrode

(in mm)

## Packaging Information

| Packaging | Specifications | Standard Packing Quantity |
|---|---|---|
| B | 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.

## Applications

| Automotive Usage | Powertrain/Safety |
|---|---|

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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℃ to 125℃ |
| Mass(typ.) | 0.01g |
| Number of Circuit | 1 |
| Rated Current (at 85℃) | 4A |
| Rated Current (at 125℃) | 2.6A |
| DC Resistance(max.) | 0.02Ω |
| Impedance (at 100MHz) | 180Ω |
| Impedance (at 100MHz) Tolerance | ±25% |
| Size Code (in mm) | 2012 |

**Attention**

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Product Search Data Sheet

Note: This datasheet may be out of date.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-us/products/productdetail?partno=BLM21SP181SH1%23
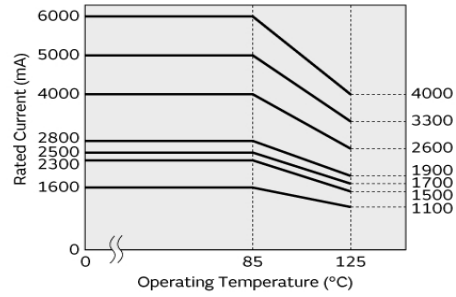
# BLM21SP181SH1#

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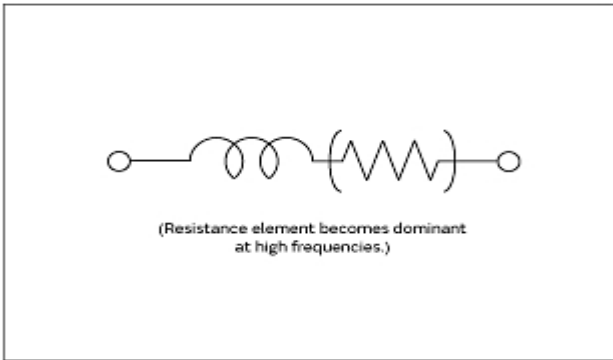# Product Data

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.
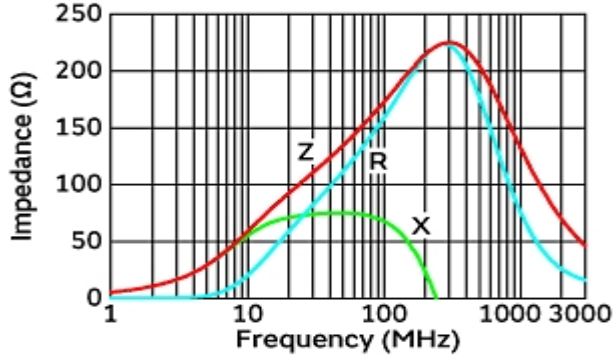


Impedance-Frequency Characteristics



Derating of Rated Current



Equivalent Circuit

**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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