

# BLM15EX221SN1#

“#” indicates a package specification code.

In Production

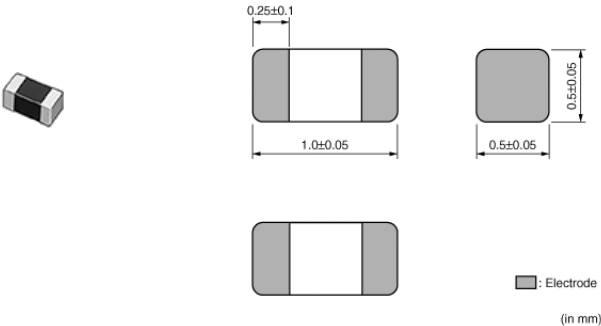
RoHS

REACH

< List of part numbers with package codes >

BLM15EX221SN1J BLM15EX221SN1B BLM15EX221SN1D

## Appearance & Shape



## Features

Excellent high frequency impedance characteristics with 0402 (EIA) size.

### Features

1. Small size: 1.0x0.5mm (0402)
2. Suitable for noise suppression in 1GHz or higher frequency
3. Low DC Resistance/Large Rated Current (BLM15E) Realize a Low DC Resistance than conventional products.
4. No Lead production using Ni+Sn plating in termination

### Applications

1. EMI suppression for Note PC and DSC
2. Noise suppression for data line in mobile phone
3. Copying machines, communications equipment, digital TV / VTR noise suppression.
4. Noise suppression in mobile wireless machine.

## Applications

|             |             |
|-------------|-------------|
| Other Usage | For general |
|-------------|-------------|

## Packaging Information

| Packaging | Specifications   | Minimum Order Quantity |
|-----------|------------------|------------------------|
| J         | 330mm Paper Tape | 50000                  |
| B         | Bulk(Bag)        | 1000                   |
| D         | 180mm Paper Tape | 10000                  |

### 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.  
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## Specifications

|                                 |                |                   |        |
|---------------------------------|----------------|-------------------|--------|
| Shape                           | SMD            | Mass(typ.)        | 0.001g |
| Size Code (in mm)               | 1005           | Number of Circuit | 1      |
| Size Code (in inch)             | 0402           |                   |        |
| Length                          | 1.0mm          |                   |        |
| Length Tolerance                | ±0.05mm        |                   |        |
| Width                           | 0.5mm          |                   |        |
| Width Tolerance                 | ±0.05mm        |                   |        |
| Thickness                       | 0.5mm          |                   |        |
| Thickness Tolerance             | ±0.05mm        |                   |        |
| Impedance (at 100MHz)           | 220Ω           |                   |        |
| Impedance (at 100MHz) Tolerance | ±25%           |                   |        |
| Impedance (at 1GHz)             | 300Ω           |                   |        |
| Impedance (at 1GHz) Tolerance   | ±40%           |                   |        |
| Rated Current (at 85°C)         | 1.3A           |                   |        |
| Rated Current (at 125°C)        | 850mA          |                   |        |
| DC Resistance(max.)             | 0.14Ω          |                   |        |
| Operating Temperature Range     | -55°C to 125°C |                   |        |

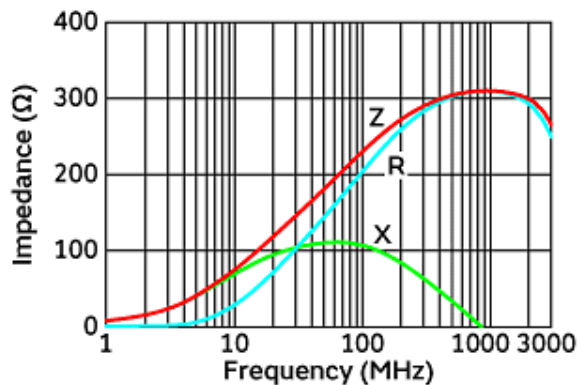
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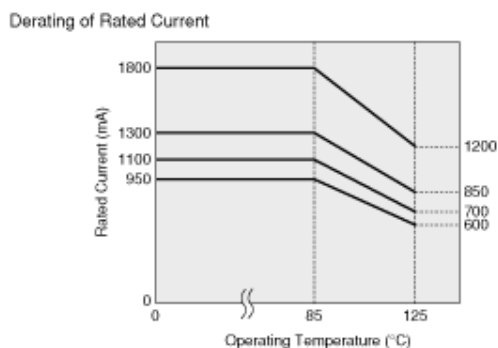
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## Product Data

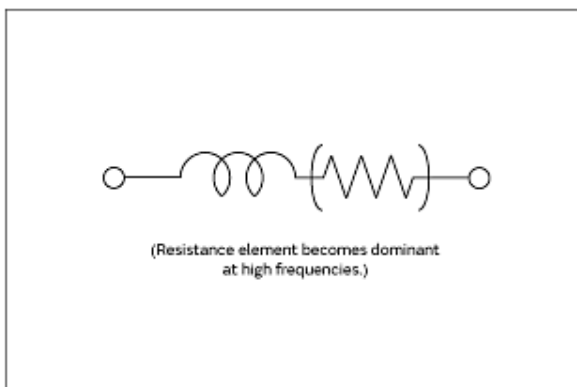


Impedance-Frequency Characteristics

In operating temperature exceeding +85°C, derating of current is necessary for BLM15EX series.  
Please apply the derating curve shown in chart according to the operating temperature.



Derating of Rated Current



Equivalent Circuit

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