

# BLM18BB221SH1#

“#” at the end indicates the package specification code.



## < List of part numbers with package codes >

BLM18BB221SH1B      BLM18BB221SH1D      BLM18BB221SH1J

## Applications

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

## Packaging Information

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B         | Bulk(Bag)        | 1000                      |
| D         | 180mm Paper Tape | 4000                      |
| J         | 330mm Paper Tape | 10000                     |

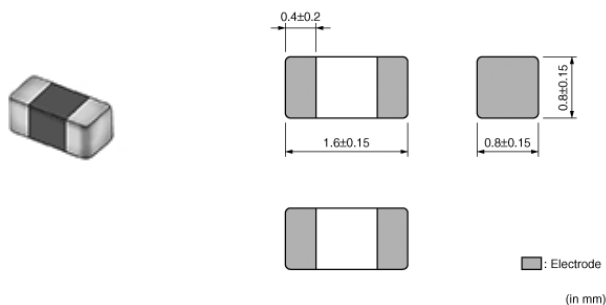
## Features

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. BLM\_B series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency.

## Appearance & Shape



### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its 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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## Specifications

|                                 |                |
|---------------------------------|----------------|
| Shape                           | SMD            |
| Size Code (in inch)             | 0603           |
| Length                          | 1.6mm          |
| Length Tolerance                | ±0.15mm        |
| Width                           | 0.8mm          |
| Width Tolerance                 | ±0.15mm        |
| Thickness                       | 0.8mm          |
| Thickness Tolerance             | ±0.15mm        |
| Operating Temperature Range     | -55°C to 125°C |
| Mass(typ.)                      | 0.005g         |
| Number of Circuit               | 1              |
| Rated Current (at 125°C)        | 450mA          |
| DC Resistance(max.)             | 0.45Ω          |
| Impedance (at 100MHz)           | 220Ω           |
| Impedance (at 100MHz) Tolerance | ±25%           |
| Size Code (in mm)               | 1608           |

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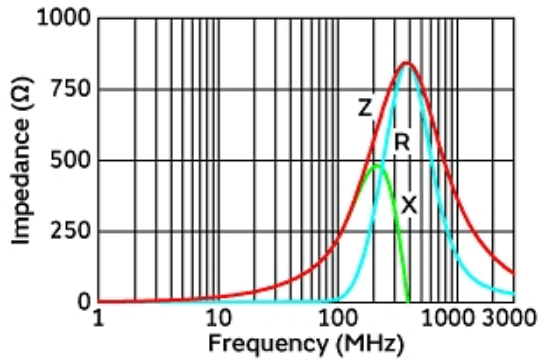
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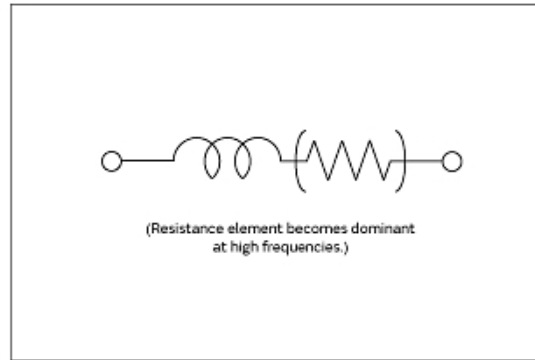
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## Product Data



Impedance-Frequency Characteristics



Equivalent Circuit

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