

# BLA31AG221SN4#

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

In Production

RoHS

REACH

|                                             |                |                |
|---------------------------------------------|----------------|----------------|
| < List of part numbers with package codes > |                |                |
| BLA31AG221SN4B                              | BLA31AG221SN4D | BLA31AG221SN4J |

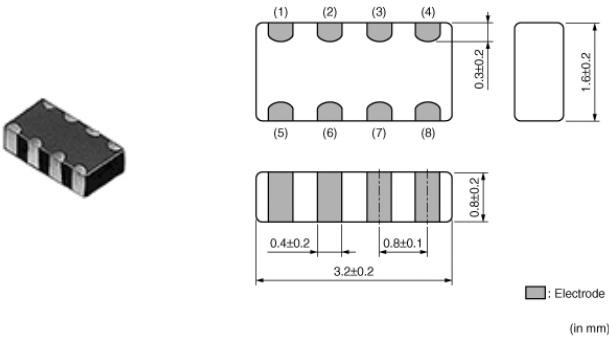
## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specific Applications    | <p>Consumer equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector, Industrial equipment except for transportation &amp; facility &amp; energy equipment</p> <p>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.</p> |
| Recommended Applications | Consumer equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Packaging Information

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

## Appearance & Shape



### 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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## Features

The miniaturization of electronic equipment requires high performance EMI filters which enable high density mounting. BLA31A/B series consists of 4 circuits of ferrite beads.

BLA31A/B is suitable for EMI suppression in smaller digital equipment.

### Features

1. BLA31A/B has 4 circuits in 3.2x1.6mm body with 0.8mm pitch.
2. Provides attenuation across a broad frequency range.  
Two types of impedance are available which meet general signal line and high speed signal line.
3. Original inner electrode structure enables extra low crosstalk.
4. The nickel barrier structure of the external electrodes provides excellent solder heat resistance. Both flow and reflow soldering methods can be employed.

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## Specifications

|                                 |                |
|---------------------------------|----------------|
| Shape                           | SMD            |
| Size Code (in inch)             | 1206           |
| Length                          | 3.2mm          |
| Length Tolerance                | ±0.2mm         |
| Width                           | 1.6mm          |
| Width Tolerance                 | ±0.2mm         |
| Thickness                       | 0.8mm          |
| Thickness Tolerance             | ±0.2mm         |
| Operating Temperature Range     | -55°C to 125°C |
| Mass(typ.)                      | 0.018g         |
| Number of Circuit               | 4              |
| Rated Current (at 125°C)        | 150mA          |
| DC Resistance(max.)             | 0.25Ω          |
| Impedance (at 100MHz)           | 220Ω           |
| Impedance (at 100MHz) Tolerance | ±25%           |
| Size Code (in mm)               | 3216           |

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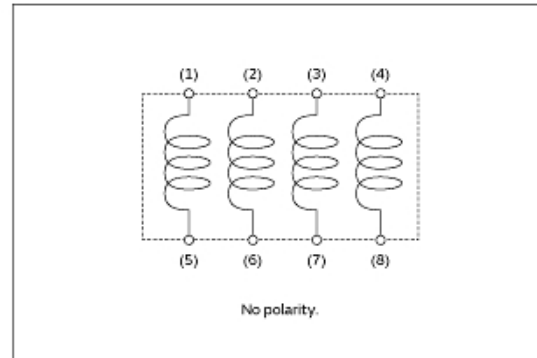
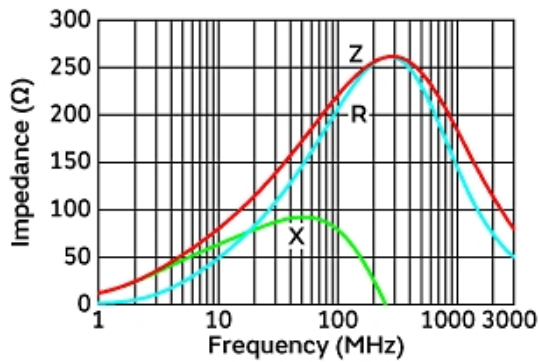
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## Product Data



Impedance-Frequency Characteristics

Equivalent Circuit

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