

# BLM18EG221TN1#

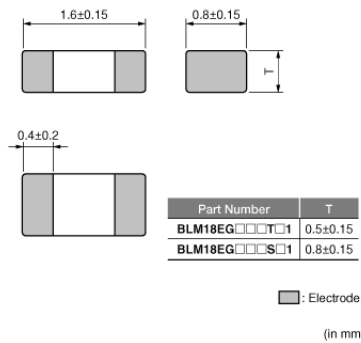
“#” indicates a package specification code.



< List of part numbers with package codes >

BLM18EG221TN1D BLM18EG221TN1J BLM18EG221TN1B

## Appearance & Shape



## Packaging Information

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

## Applications

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

**Attention**  
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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

BLM18H/BLM18E series has a modified internal electrode structure, that minimizes stray capacitance and increases the effective frequency range.

### Features (BLM18H series)

1. BLM18H series realizes high impedance at 1GHz and is suitable for noise suppression from 500MHz to GHz range. The impedance value of HG/HD-type is about three times as large as that of A/B-type at 1GHz, though the impedance characteristic of HG/HD-type is similar to A/B-type at 100MHz or less.
2. HG-type is effective in noise suppression in wide frequency range (several MHz to several GHz). HB/HD-type for high-speed signal line provides a sharper roll-off after the cut-off frequency. HK-type for digital interface and HE-type for optical pickup modules are effective in suppressing the ringing because resistance especially grows in the lower frequency.
3. The magnetic shielded structure minimizes crosstalk.

### Features (BLM18E series)

1. Low DC Resistance and a large Rated Current are suitable for noise suppression of the driver circuit.
2. Excellent direct current characteristics
3. Thin type ( $t=0.5\text{mm}$ ) is suitable for small and low profile equipment such as DSC, cellular phones.

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## Specifications

|                                 |                |
|---------------------------------|----------------|
| Shape                           | SMD            |
| Size Code (in mm)               | 1608           |
| Size Code (in inch)             | 0603           |
| Length                          | 1.6mm          |
| Length Tolerance                | ±0.15mm        |
| Width                           | 0.8mm          |
| Width Tolerance                 | ±0.15mm        |
| Thickness                       | 0.5mm          |
| Thickness Tolerance             | ±0.15mm        |
| Impedance (at 100MHz)           | 220Ω           |
| Impedance (at 100MHz) Tolerance | ±25%           |
| Impedance (at 1GHz)             | 300Ω           |
| Impedance (at 1GHz) Tolerance   | (Typ.)         |
| Rated Current (at 85°C)         | 1A             |
| Rated Current (at 125°C)        | 1A             |
| DC Resistance(max.)             | 0.15Ω          |
| Operating Temperature Range     | -55°C to 125°C |
| Mass(typ.)                      | 0.004g         |
| Number of Circuit               | 1              |

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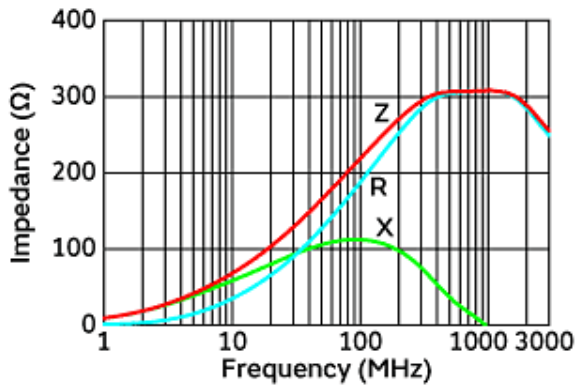
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## Product Data



Impedance-Frequency Characteristics



Equivalent Circuit

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