

# BLM18EG101TZ1#

“#” indicates a package specification code.

In Production

AEC-Q200

RoHS

REACH

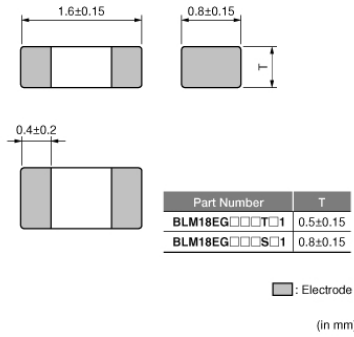
## < List of part numbers with package codes >

BLM18EG101TZ1B

BLM18EG101TZ1D

BLM18EG101TZ1J

## Appearance & Shape



## Packaging Information

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

## Applications

|                  |              |
|------------------|--------------|
| Automotive Usage | Infotainment |
|------------------|--------------|

### Attention

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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=0.5mm) is suitable for small and low profile equipment such as DSC, cellular phones.

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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                       | 0.5mm          |
| Thickness Tolerance             | ±0.15mm        |
| Operating Temperature Range     | -55°C to 125°C |
| Mass(typ.)                      | 0.004g         |
| Number of Circuit               | 1              |
| Rated Current (at 85°C)         | 2A             |
| Rated Current (at 125°C)        | 1A             |
| DC Resistance(max.)             | 0.045Ω         |
| Impedance (at 100MHz)           | 100Ω           |
| Impedance (at 100MHz) Tolerance | ±25%           |
| Impedance (at 1GHz)             | 140Ω           |
| Impedance (at 1GHz) Tolerance   | (Typ.)         |
| Size Code (in mm)               | 1608           |

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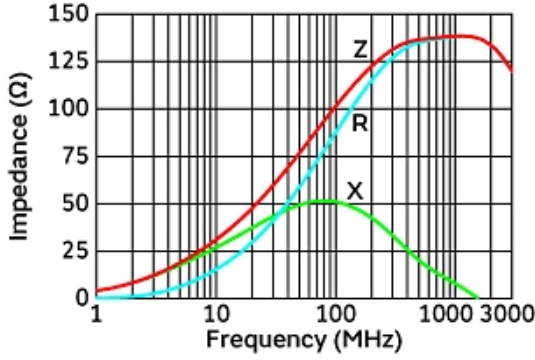
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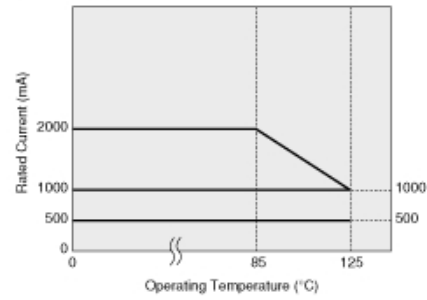
## Product Data



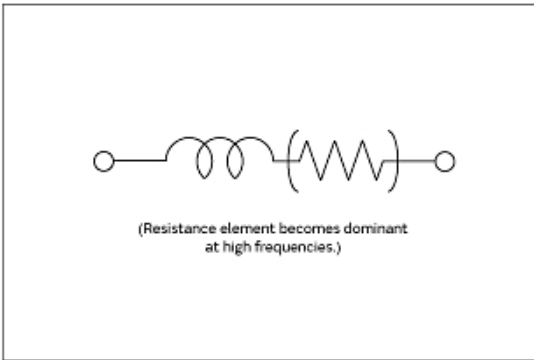
Impedance-Frequency Characteristics

In operating temperature exceeding +85°C, derating of current is necessary for BLM18EG series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Derating of Rated Current



Equivalent Circuit

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