

# BLM18SG221TZ1#

“#” indicates a package specification code.

In Production

RoHS

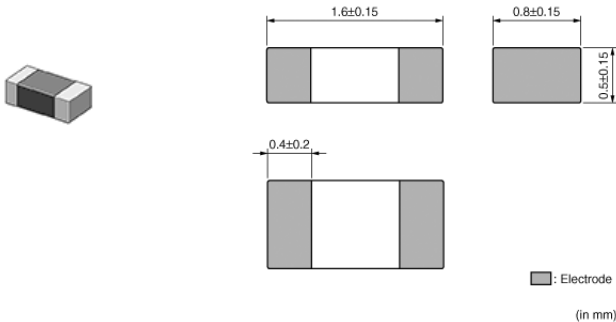
REACH

AEC-Q200

< List of part numbers with package codes >

BLM18SG221TZ1J BLM18SG221TZ1B BLM18SG221TZ1D

## Appearance & Shape



## Features

1. Low DC Resistance/Large Rated Current.
2. BLM18S series can be used in high current circuits due to its low DC resistance.  
It can match power lines to a maximum of 6ADC.
3. Ni+Sn plating structure of the external electrodes provides excellent solder heat resistance.

## Applications

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

## Packaging Information

| Packaging | Specifications   | Minimum Order Quantity |
|-----------|------------------|------------------------|
| J         | 330mm Paper Tape | 30000                  |
| 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.  
 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 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%           |
| Rated Current (at 85°C)         | 2.5A           |
| Rated Current (at 125°C)        | 1A             |
| DC Resistance(max.)             | 0.04Ω          |
| Operating Temperature Range     | -55°C to 125°C |
| Mass(typ.)                      | 0.004g         |
| Number of Circuit               | 1              |

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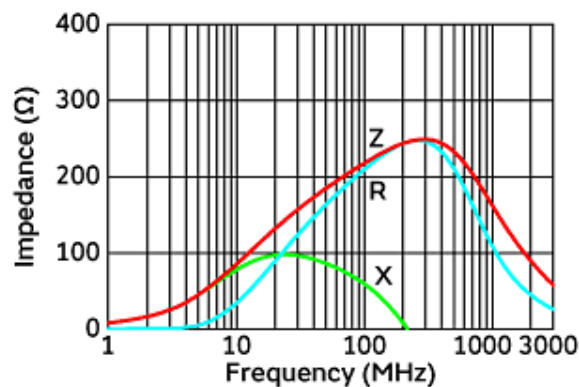
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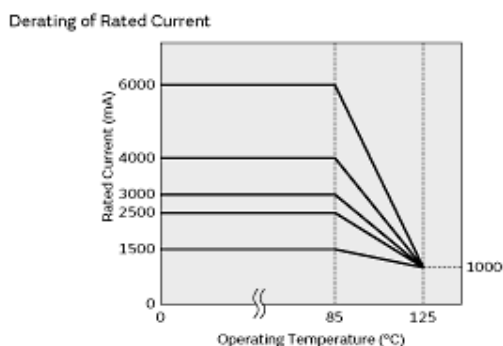
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## Product Data

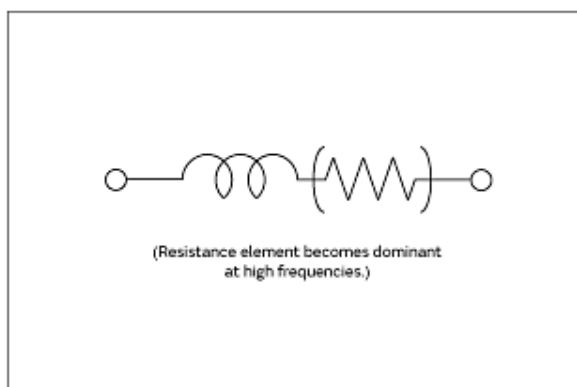


Impedance-Frequency Characteristics

In operating temperature exceeding +85°C, derating of current is necessary for BLM18SG\_T□1 series. Please apply the derating curve shown in chart according to the operating temperature.



Derating of Rated Current



Equivalent Circuit

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