

BLF03RD501GNE#

“#” indicates a package specification code.

In Production

New

RoHS

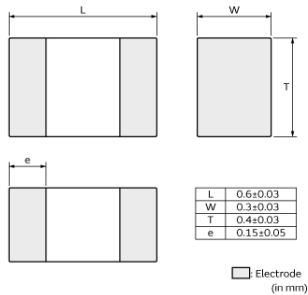
REACH

< List of part numbers with package codes >

BLF03RD501GNEB

BLF03RD501GNED

Appearance & Shape



Features

1. Frequency specified filters are designed to reduce noise greatly at specified frequency, which greatly reduces the possibility of resonance and leaves signal wave forms undistorted. BLF series is effective in circuits without stable ground lines because BLF series does not need a connection to ground.
2. The nickel barrier structure of the external electrodes provides excellent solder heat resistance.
3. BLF03RD series is designed to have high impedance at 2.4GHz. Suitable for immunity noise suppression for LTE band, WiFi band.

Applications

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

Packaging Information

| Packaging | Specifications | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B | Bulk(Bag) | 1000 |
| D | 180mm Paper Tape | 15000 |

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) | 0201 |
| Length | 0.6mm |
| Length Tolerance | ±0.03mm |
| Width | 0.3mm |
| Width Tolerance | ±0.03mm |
| Thickness | 0.4mm |
| Thickness Tolerance | ±0.03mm |
| Operating Temperature Range | -55°C to 125°C |
| Mass(typ.) | 0.4mg |
| Number of Circuit | 1 |
| Rated Current (at 85°C) | 500mA |
| Rated Current (at 125°C) | 380mA |
| DC Resistance(max.) | 0.36Ω |
| Impedance (at Target Frequency) | 500Ω(Typ.) (at 2.4GHz) |
| Size Code (in mm) | 0603 |

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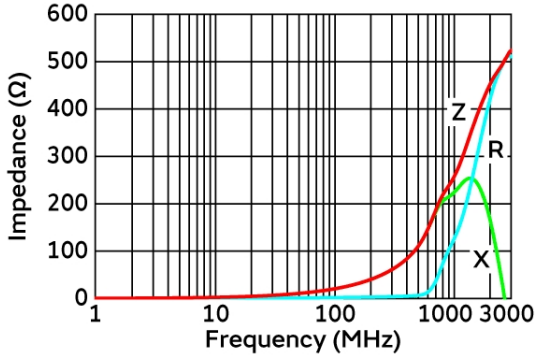
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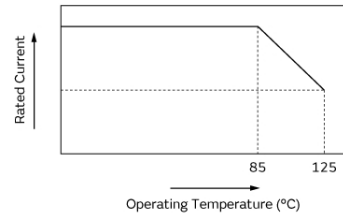
Product Data



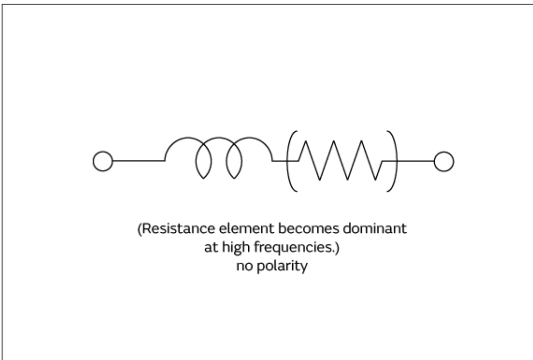
Impedance-Frequency Characteristics

In operating temperature exceeding +85°C, derating of current is necessary for BLF03RD501G□E. 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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