

# BLF03RD501GZE#

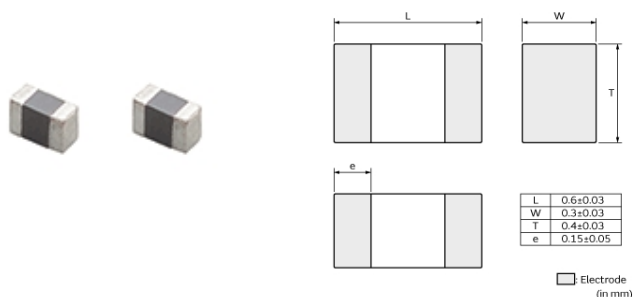
“#” indicates a package specification code.



## < List of part numbers with package codes >

BLF03RD501GZEB      BLF03RD501GZED

## 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

Automotive Usage	Infotainment
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## 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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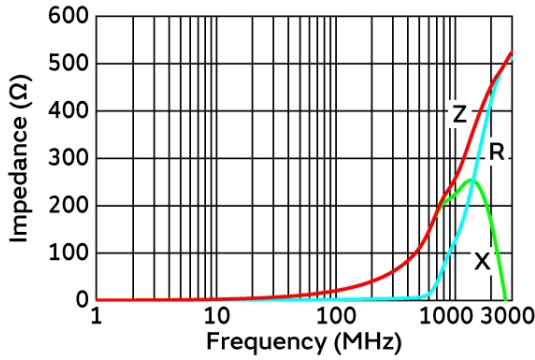
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## Product Data



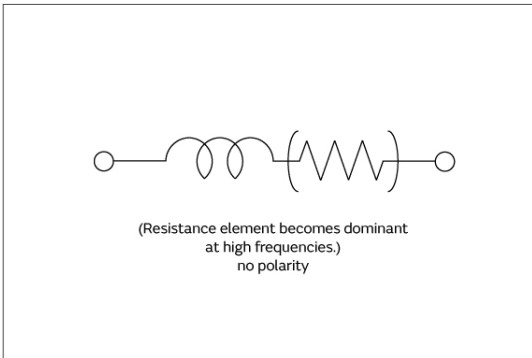
Impedance-Frequency Characteristics

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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