

# BLM18BD421BH1#

"#" indicates a package specification code.



< List of part numbers with package codes >  
BLM18BD421BH1D BLM18BD421BH1B

## Appearance & Shape



## Features

The chip ferrite beads BLM series is designed to function nearly as a resistor at noise frequencies, which greatly reduces the possibility of resonance and leaves signal wave forms undistorted. BLM series is effective in circuits without stable ground lines because BLM series does not need a connection to ground. The nickel barrier structure of the external electrodes provides excellent solder heat resistance. Also it can be used up to 150 °C. BLM\_BD series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency.

## Applications

Automotive Usage	Powertrain/Safety
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## Packaging Information

Packaging	Specifications	Minimum Order Quantity
D	180mm Paper Tape	4000
B	Bulk(Bag)	1000

### 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	Number of Circuit	1
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	0.8mm		
Thickness Tolerance	±0.15mm		
Impedance (at 100MHz)	420Ω		
Impedance (at 100MHz) Tolerance	±25%		
Rated Current (at 85°C)	250mA		
Rated Current (at 125°C)	250mA		
Rated Current (at 150°C)	10mA		
DC Resistance(max.)	0.55Ω		
Operating Temperature Range	-55°C to 150°C		
Mass(typ.)	0.005g		

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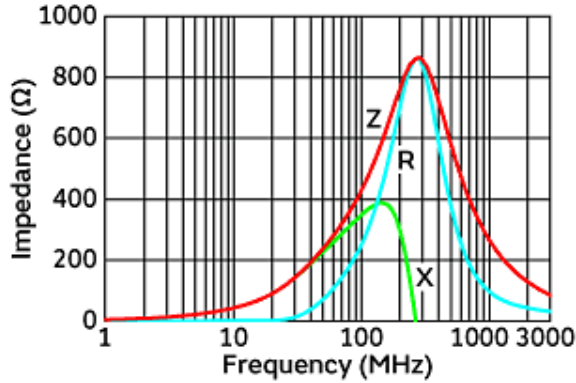
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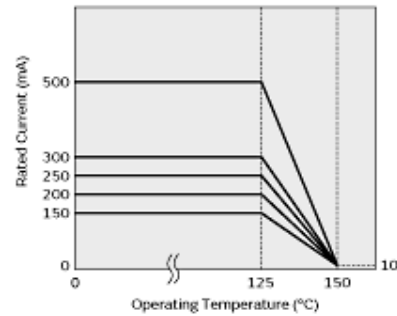
## Product Data



Impedance-Frequency Characteristics

In operating temperature exceeding +125°C, derating of current is necessary for BLM18BD\_BH1 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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