

Note: This datasheet may be out of date.

Please download the latest datasheet of BLM18KN331EH1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=BLM18KN331EH1%23

"#"at the end indicates the package specification code.









< List of part numbers with package codes >

BLM18KN331EH1B

BLM18KN331EH1D

BLM18KN331EH1J



### **Applications**

Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
	Automotive powertrain/safety equipment,	
	Automotive infotainment/comfort	
	equipment,Consumer equipment,	
	Medical equipment [GHTF A/B/C]	
	except for implant & surgery & auto	
	injector,Industrial Equipment	
Specific	Please refer to Our Website and	
Applications	specifications, etc. for information about	
	the performance, functions, quality,	
	management, and safety required for	
	the above applications, and use	
	Products after confirming the	
	performance and reliability of the actual	
	Product.	
Recommended		
Applications	Automotive powertrain/safety equipment	



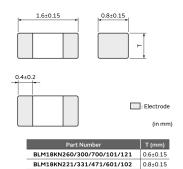
### Packaging Information

	Packaging	Specifications	Standard Packing
	rackaging		Quantity
	В	Bulk(Bag)	1000
	D	180mm Paper Tape	4000
	J	330mm Paper Tape	10000



# Appearance & Shape





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 $2. This \ data{sheet has only typical specifications because there is no \ space for \ detailed \ specifications.}$ 

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### **Features**

- 1.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.
- 2.The nickel barrier structure of the external electrodes provides excellent solder heat resistance. Also it can be used up to 175 °C.
- 3.BLM\_K series can be used in high current circuits due to its low DC resistance. It can match power lines to a maximum of 4ADC.

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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	0.8mm
Thickness Tolerance	±0.15mm
Operating Temperature Range	-55°C to 175°C
Mass(typ.)	0.005g
Number of Circuit	1
Rated Current (at 125°C)	1.1A
Rated Current (at 150°C)	790mA
Rated Current (at 175°C)	10mA
DC Resistance(max.)	0.08Ω
Impedance (at 100MHz)	330Ω
Impedance (at 100MHz) Tolerance	±25%
Size Code (in mm)	1608

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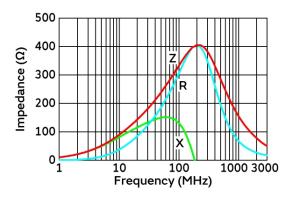
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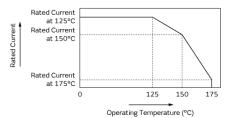




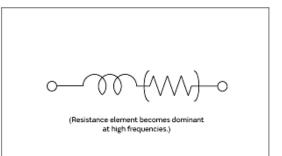
In operating temperature exceeding +125°C, derating of current is necessary for this series.

Please apply the derating curve shown in chart according to the operating temperature.

#### Derating of Rated Current



Impedance-Frequency Characteristics



**Derating of Rated Current** 

**Equivalent Circuit** 

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