

# BLM18DN381SH1#

Note: This datasheet may be out of date

Please download the latest datasheet of BLM18DN381SH1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=BLM18DN381SH1%23

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









< List of part numbers with package codes >

BLM18DN381SH1B

BLM18DN381SH1D

BLM18DN381SH1J



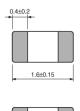
### **Applications**

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	Automotivo powartrain/cafety equipment		
Applications	Automotive powertrain/safety equipment		



# Appearance & Shape











(in mm)



## Packaging Information

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



### **Features**

Chip ferrite beads for high frequency noise suppression over a wide frequency range.

#### Features

- High impedance characteristic in 1GHz or higher frequency
- 2. High impedance characteristic over a wide frequency band range of 100MHz to 6GHz
- 3. Low DC Resistance enables large Rated Current

### Applications

1. Noise suppression for Automotive LED Lighting.

1 of 3

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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)	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 125°C
Mass(typ.)	0.004g
Number of Circuit	1
Rated Current (at 85°C)	850mA
Rated Current (at 125°C)	550mA
DC Resistance(max.)	0.325Ω
Impedance (at 100MHz)	380Ω
Impedance (at 100MHz) Tolerance	±25%
Impedance (at 1GHz)	1100Ω
Impedance (at 1GHz) Tolerance	±30%
Size Code (in mm)	1608

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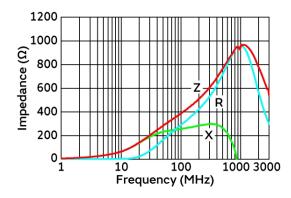
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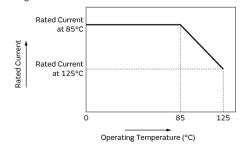




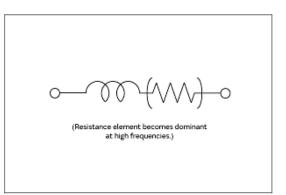
In operating temperature exceeding +85°C, derating of current is necessary for this series.

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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