

Note: This datasheet may be out of date.

Please download the latest datasheet of BLM18KN700EH1# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=BLM18KN700EH1%23

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









< List of part numbers with package codes >

BLM18KN700EH1B

BLM18KN700EH1D

BLM18KN700EH1J



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 nowartrain/aafaty aguinment | |
| Applications | Automotive powertrain/safety equipment | |



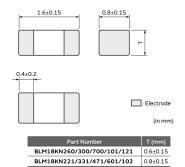
Packaging Information

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



Appearance & Shape





1 of 4

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

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.





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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 | 0.6mm |
| Thickness Tolerance | ±0.15mm |
| Operating Temperature Range | -55°C to 175°C |
| Mass(typ.) | 0.004g |
| Number of Circuit | 1 |
| Rated Current (at 125°C) | 2.2A |
| Rated Current (at 150°C) | 1.5A |
| Rated Current (at 175°C) | 10mA |
| DC Resistance(max.) | 0.022Ω |
| Impedance (at 100MHz) | 70Ω |
| Impedance (at 100MHz) Tolerance | ±25% |
| Size Code (in mm) | 1608 |

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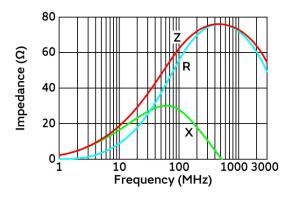
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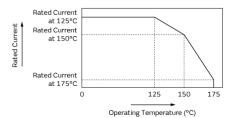




In operating temperature exceeding +125°C, derating of current is necessary for this series.

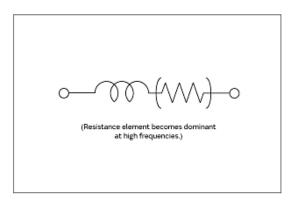
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Impedance-Frequency Characteristics





Equivalent Circuit

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