muRata
INNOVATOR IN ELECTRONICS

Product Search Data Sheet

Note: This datasheet may be out of date.
Please download the latest datasheet of BLM18KG700TH1# from the official website of Murata Manufacturing Co., Ltd.
https://www.murata.com/en-global/products/productdetail?partno=BLM18KG700TH1%23

BLM18KG700TH1#

"#" indicates a package specification code.

In Production RoHS REACH AEC-Q200

< List of part numbers with package codes >
BLM18KG700TH1D   BLM18KG700TH1J   BLM18KG700TH1B

Appearance & Shape

Part Number	T
BLM18KG_T□	0.6±0.15
BLM18KG_S□	0.8±0.15

□ : Electrode

(in mm)
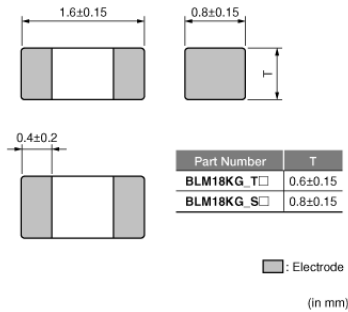
Features

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.
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 6ADC.

Applications

Automotive Usage	Powertrain/Safety

Packaging Information

Packaging	Specifications	Minimum Order Quantity
D	180mm Paper Tape	4000
J	330mm Paper Tape	10000
B	Bulk(Bag)	1000

BLM18KG700TH1#

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Specifications

Shape	SMD
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	0.6mm
Thickness Tolerance	±0.15mm
Impedance (at 100MHz)	70Ω
Impedance (at 100MHz) Tolerance	±25%
Rated Current (at 85℃)	3.5A
Rated Current (at 125℃)	2.2A
DC Resistance(max.)	0.022Ω
Operating Temperature Range	-55℃ to 125℃
Mass(typ.)	0.004g
Number of Circuit	1

URL : https://www.murata.com/

BLM18KG700TH1#
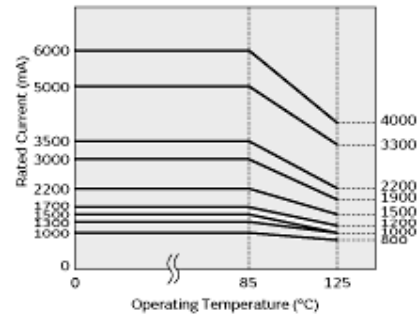
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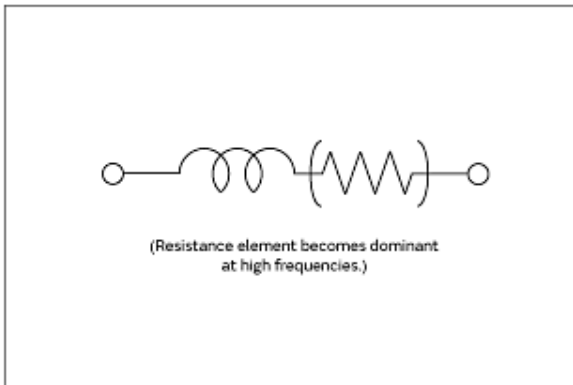
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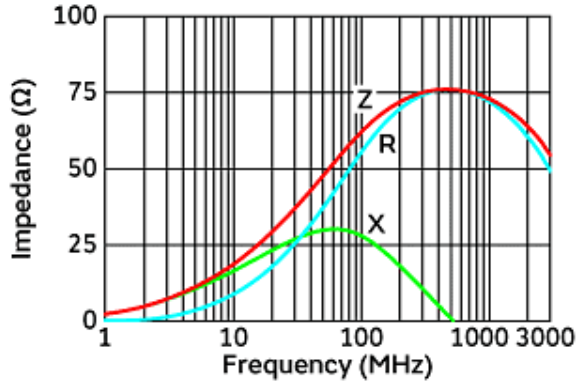
Impedance-Frequency Characteristics

In operating temperature exceeding +85°C, derating of current is necessary for BLM18KG series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current

Equivalent Circuit

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Last updated : 2019/07/18