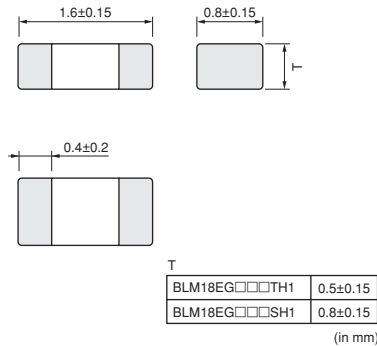


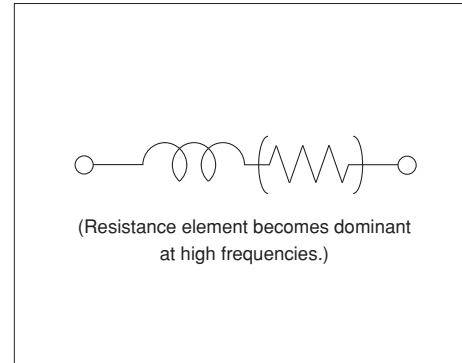
# For Automotive chip Ferrite Bead for Automotive

## BLM18E\_SH/TH Series (0603 Size)

### ■ Dimensions



### ■ Equivalent Circuit



### ■ Packaging

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

### ■ Rated Value (□: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range
BLM18EG101TH1□	100ohm ±25%	140ohm (Typ.)	2000mA	0.045ohm max.	-55 to +125°C
BLM18EG121SH1□	120ohm ±25%	145ohm (Typ.)	2000mA	0.04ohm max.	-55 to +125°C
BLM18EG181SH1□	180ohm ±25%	260ohm (Typ.)	2000mA	0.05ohm max.	-55 to +125°C
BLM18EG221TH1□	220ohm ±25%	300ohm (Typ.)	1000mA	0.15ohm max.	-55 to +125°C
BLM18EG331TH1□	330ohm ±25%	450ohm (Typ.)	500mA	0.21ohm max.	-55 to +125°C
BLM18EG391TH1□	390ohm ±25%	520ohm (Typ.)	500mA	0.30ohm max.	-55 to +125°C
BLM18EG471SH1□	470ohm ±25%	550ohm (Typ.)	500mA	0.21ohm max.	-55 to +125°C
BLM18EG601SH1□	600ohm ±25%	700ohm (Typ.)	500mA	0.35ohm max.	-55 to +125°C

Number of Circuits: 1

Continued on the following page.

● This data sheet is applied for CHIP FERRITE BEAD used for Automotive Electronics equipment for your design.

### ⚠ Note:

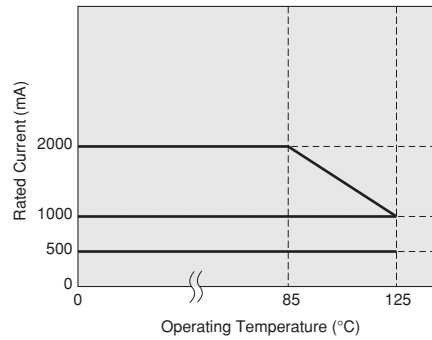
1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
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## Derating of Rated Current

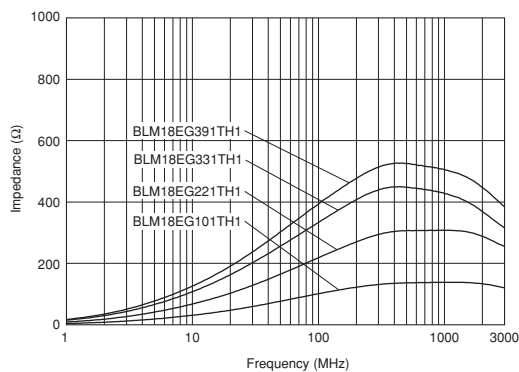
In operating temperature exceeding +85°C, derating of current is necessary for BLM18EG series.  
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



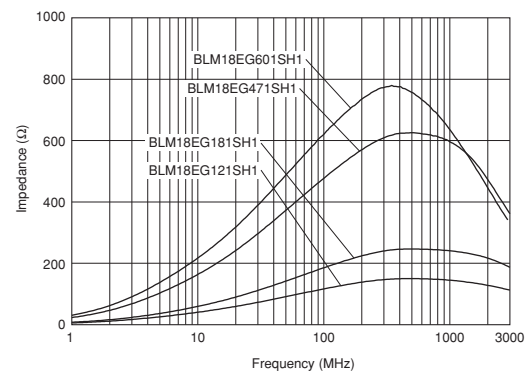
## Impedance-Frequency Characteristics (Main Items)

BLM18EG\_TH1 Series



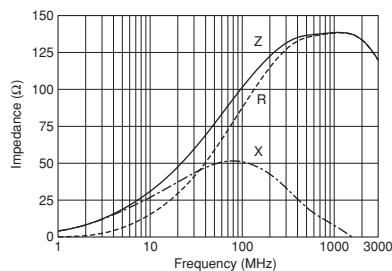
## Impedance-Frequency Characteristics (Main Items)

BLM18EG\_SH1 Series



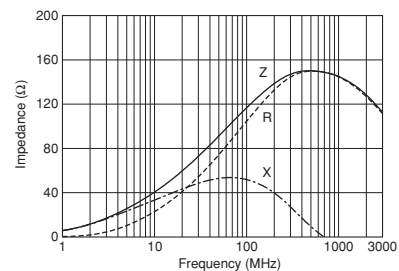
## Impedance-Frequency Characteristics

BLM18EG101TH1



## Impedance-Frequency Characteristics

BLM18EG121SH1



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● This data sheet is applied for CHIP FERRITE BEAD used for Automotive Electronics equipment for your design.

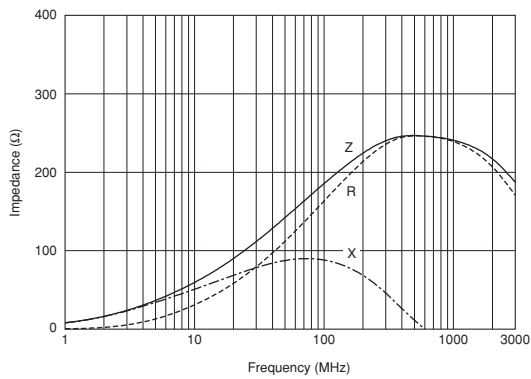
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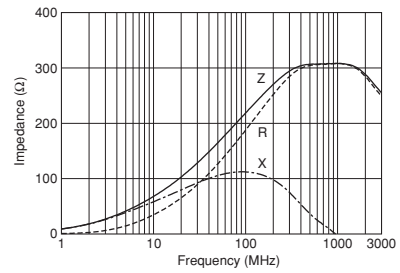
### Impedance-Frequency Characteristics

**BLM18EG181SH1**



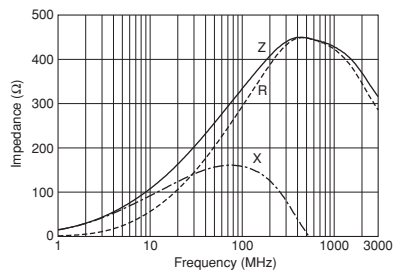
### Impedance-Frequency Characteristics

**BLM18EG221TH1**



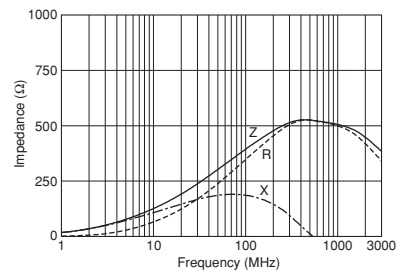
### Impedance-Frequency Characteristics

**BLM18EG331TH1**



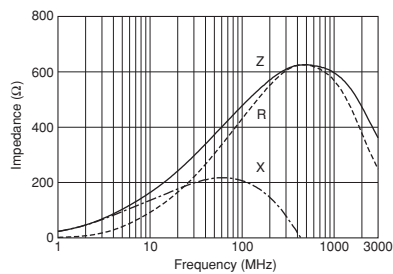
### Impedance-Frequency Characteristics

**BLM18EG391TH1**



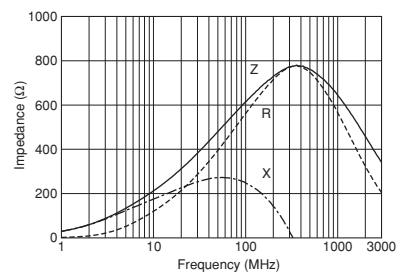
### Impedance-Frequency Characteristics

**BLM18EG471SH1**



### Impedance-Frequency Characteristics

**BLM18EG601SH1**




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### ■ ⚠ Caution/Notice

#### ⚠ Caution (Rating)

1. Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.
2. Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

#### Notice

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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