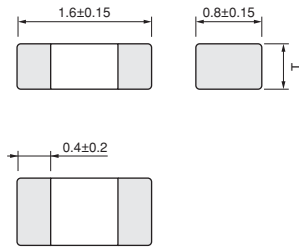


# For Automotive Chip Ferrite Bead for Automotive

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

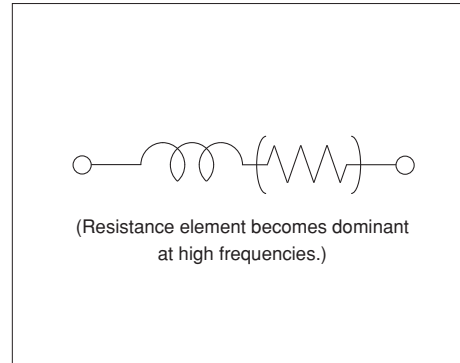
### ■ Dimensions



| T             |          |
|---------------|----------|
| BLM18EG□□□TH1 | 0.5±0.15 |
| BLM18EG□□□SH1 | 0.8±0.15 |

(in mm)

### ■ 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:

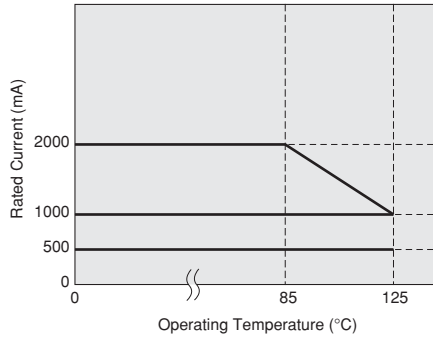
- This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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**Derating of Rated Current**

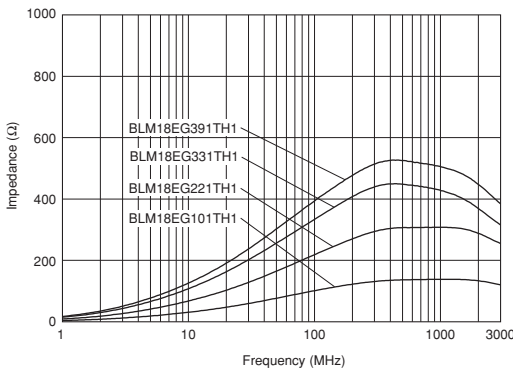
In operating temperature exceeding +85°C, derating of current is necessary for BLM18EG series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



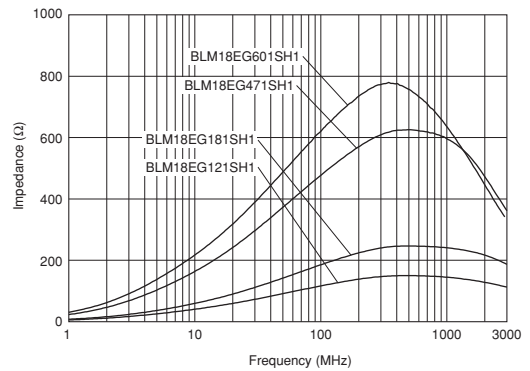
**Impedance-Frequency Characteristics (Main Items)**

BLM18EG\_TH1 Series



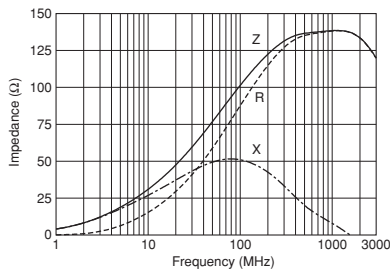
**Impedance-Frequency Characteristics (Main Items)**

BLM18EG\_SH1 Series



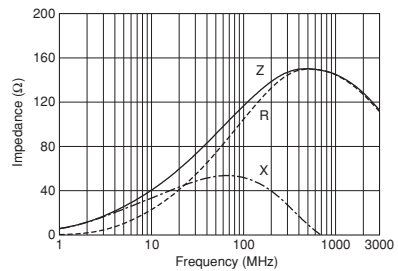
**Impedance-Frequency Characteristics**

BLM18EG101TH1



**Impedance-Frequency Characteristics**

BLM18EG121SH1



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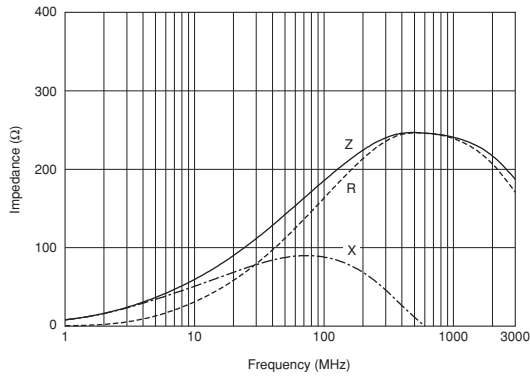
This data sheet is applied for CHIP FERRITE BEAD used for Automotive Electronics equipment for your design.

**Note:**

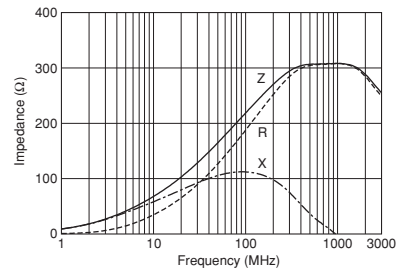
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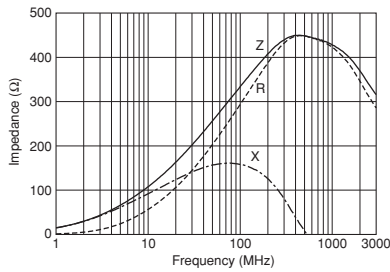
**Impedance-Frequency Characteristics**  
**BLM18EG181SH1**



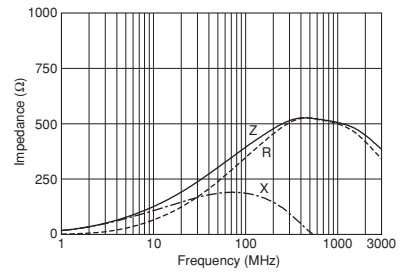
**Impedance-Frequency Characteristics**  
**BLM18EG221TH1**



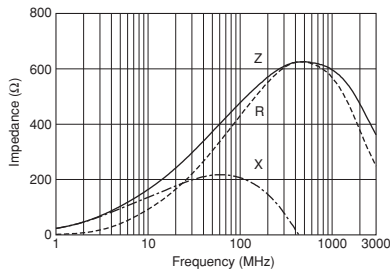
**Impedance-Frequency Characteristics**  
**BLM18EG331TH1**



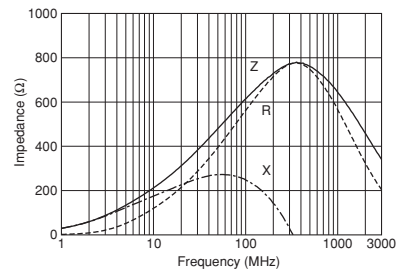
**Impedance-Frequency Characteristics**  
**BLM18EG391TH1**



**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 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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