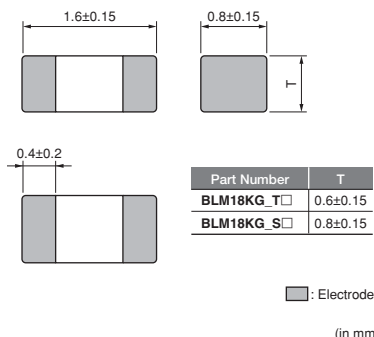


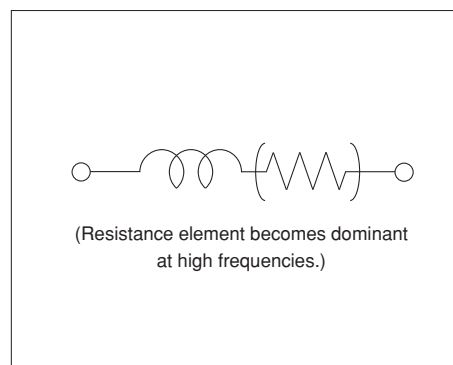
# EMIFIL® (Inductor type) chip Ferrite Bead

## BLM18K 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<br>(at 100MHz/20°C) | Impedance<br>(at 1GHz/20°C) | Rated Current | DC Resistance | Operating<br>Temperature Range |
|----------------|-------------------------------|-----------------------------|---------------|---------------|--------------------------------|
| BLM18KG260TN1□ | 26ohm ±25%                    | -                           | 6000mA        | 0.007ohm max. | -55 to +125°C                  |
| BLM18KG300TN1□ | 30ohm ±25%                    | -                           | 5000mA        | 0.010ohm max. | -55 to +125°C                  |
| BLM18KG700TN1□ | 70ohm ±25%                    | -                           | 3500mA        | 0.022ohm max. | -55 to +125°C                  |
| BLM18KG101TN1□ | 100ohm ±25%                   | -                           | 3000mA        | 0.030ohm max. | -55 to +125°C                  |
| BLM18KG121TN1□ | 120ohm ±25%                   | -                           | 3000mA        | 0.030ohm max. | -55 to +125°C                  |
| BLM18KG221SN1□ | 220ohm ±25%                   | -                           | 2200mA        | 0.050ohm max. | -55 to +125°C                  |
| BLM18KG331SN1□ | 330ohm ±25%                   | -                           | 1700mA        | 0.080ohm max. | -55 to +125°C                  |
| BLM18KG471SN1□ | 470ohm ±25%                   | -                           | 1500mA        | 0.130ohm max. | -55 to +125°C                  |
| BLM18KG601SN1□ | 600ohm ±25%                   | -                           | 1300mA        | 0.150ohm 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 General Electronics equipment for your design.

### ⚠ Note:

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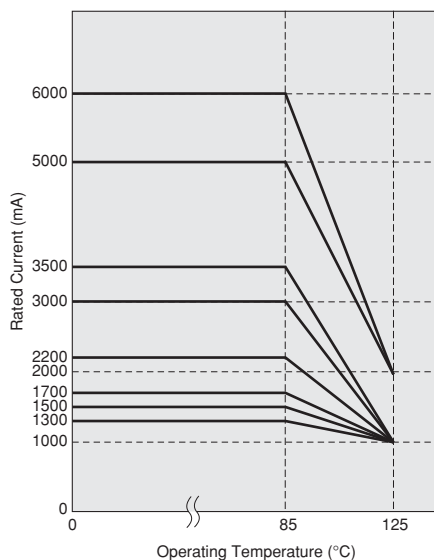
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## Derating of Rated Current

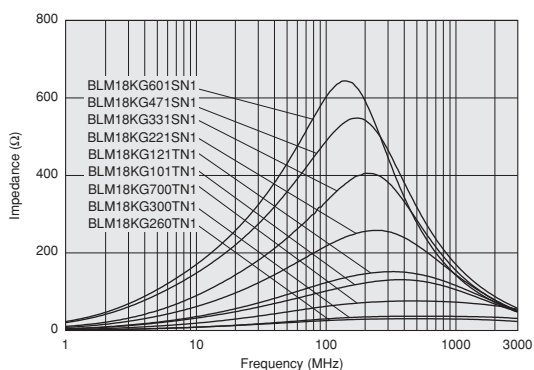
In operating temperature exceeding +85°C, derating of current is necessary for BLM18KG series.

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

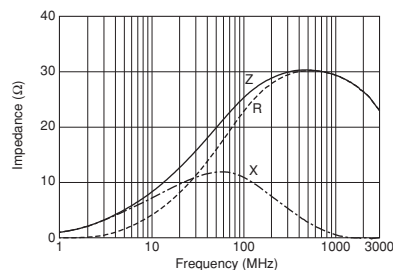
Derating of Rated Current



## Impedance-Frequency Characteristics (Main Items)



## Impedance-Frequency Characteristics BLM18KG260TN1



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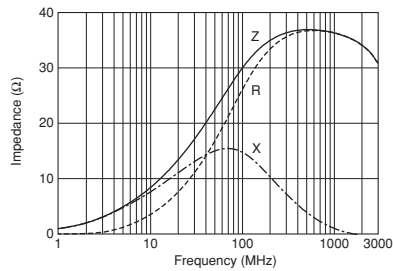
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### Note:

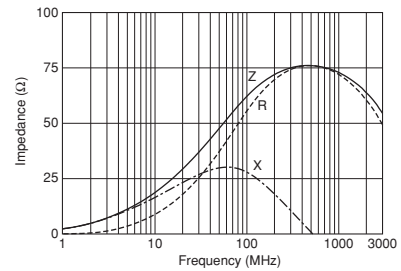
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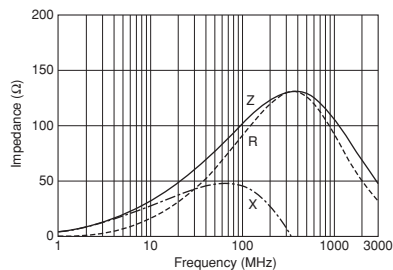
### Impedance-Frequency Characteristics BLM18KG300TN1



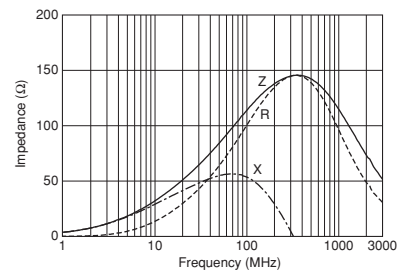
### Impedance-Frequency Characteristics BLM18KG700TN1



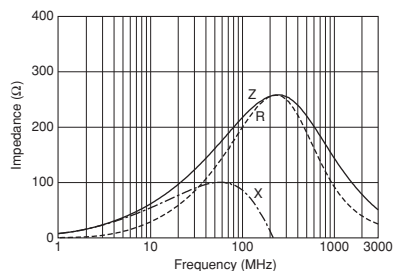
### Impedance-Frequency Characteristics BLM18KG101TN1



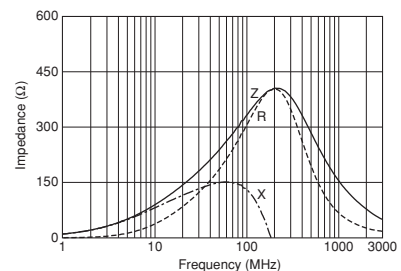
### Impedance-Frequency Characteristics BLM18KG121TN1



### Impedance-Frequency Characteristics BLM18KG221SN1



### Impedance-Frequency Characteristics BLM18KG331SN1



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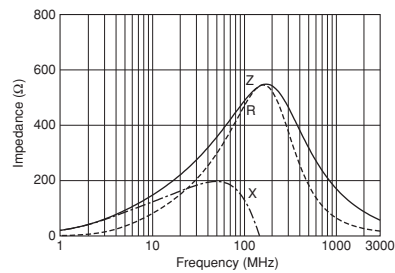
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#### Note:

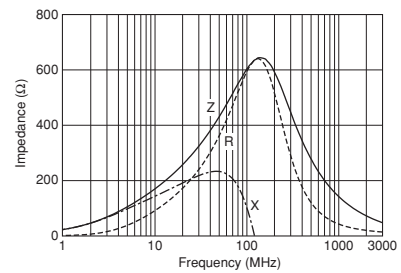
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Continued from the preceding page.

### ■ Impedance-Frequency Characteristics BLM18KG471SN1



### ■ Impedance-Frequency Characteristics BLM18KG601SN1



### ■ ⚠ Caution/Notice

#### ⚠ Caution (Rating)

Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.

#### 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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