

## Excellent Integrated System Limited

Stocking Distributor

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[Murata Electronics North America](#)  
[BLM18HD471SN1D](#)

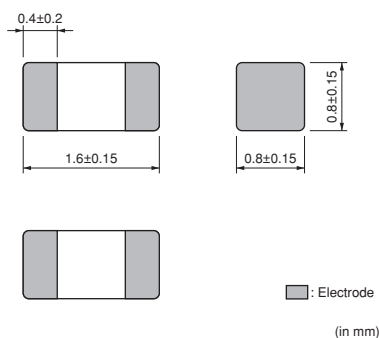
For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

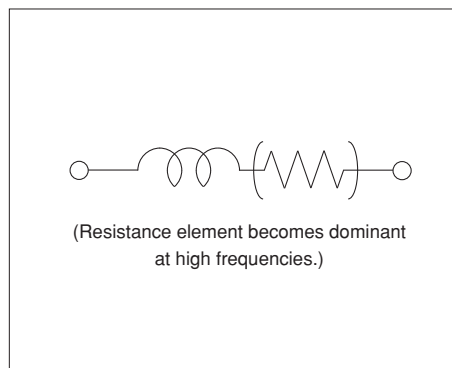
# EMIFIL® (Inductor type) Chip Ferrite Bead for GHz Noise

## BLM18H 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 |
|----------------|-------------------------------|-----------------------------|---------------|---------------|--------------------------------|
| BLM18HG471SN1□ | 470ohm ±25%                   | 600ohm (Typ.)               | 200mA         | 0.85ohm max.  | -55 to +125°C                  |
| BLM18HG601SN1□ | 600ohm ±25%                   | 700ohm (Typ.)               | 200mA         | 1.00ohm max.  | -55 to +125°C                  |
| BLM18HG102SN1□ | 1000ohm ±25%                  | 1000ohm (Typ.)              | 100mA         | 1.60ohm max.  | -55 to +125°C                  |
| BLM18HE601SN1□ | 600ohm ±25%                   | 600ohm (Typ.)               | 800mA         | 0.25ohm max.  | -55 to +125°C                  |
| BLM18HE102SN1□ | 1000ohm ±25%                  | 1000ohm (Typ.)              | 600mA         | 0.35ohm max.  | -55 to +125°C                  |
| BLM18HE152SN1□ | 1500ohm ±25%                  | 1500ohm (Typ.)              | 500mA         | 0.50ohm max.  | -55 to +125°C                  |
| BLM18HD471SN1□ | 470ohm ±25%                   | 1000ohm (Typ.)              | 100mA         | 1.20ohm max.  | -55 to +125°C                  |
| BLM18HD601SN1□ | 600ohm ±25%                   | 1200ohm (Typ.)              | 100mA         | 1.50ohm max.  | -55 to +125°C                  |
| BLM18HD102SN1□ | 1000ohm ±25%                  | 1700ohm (Typ.)              | 50mA          | 1.80ohm max.  | -55 to +125°C                  |
| BLM18HB121SN1□ | 120ohm ±25%                   | 500ohm ±40%                 | 200mA         | 0.50ohm max.  | -55 to +125°C                  |
| BLM18HB221SN1□ | 220ohm ±25%                   | 1100ohm ±40%                | 100mA         | 0.80ohm max.  | -55 to +125°C                  |
| BLM18HB331SN1□ | 330ohm ±25%                   | 1600ohm ±40%                | 50mA          | 1.20ohm max.  | -55 to +125°C                  |
| BLM18HK331SN1□ | 330ohm ±25%                   | 400ohm ±40%                 | 200mA         | 0.50ohm max.  | -55 to +125°C                  |
| BLM18HK471SN1□ | 470ohm ±25%                   | 600ohm ±40%                 | 200mA         | 0.70ohm max.  | -55 to +125°C                  |
| BLM18HK601SN1□ | 600ohm ±25%                   | 700ohm ±40%                 | 100mA         | 0.90ohm max.  | -55 to +125°C                  |
| BLM18HK102SN1□ | 1000ohm ±25%                  | 1200ohm ±40%                | 50mA          | 1.50ohm max.  | -55 to +125°C                  |

Number of Circuits: 1

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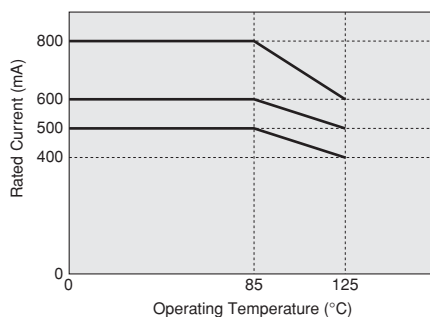
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## Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLM18HE series.

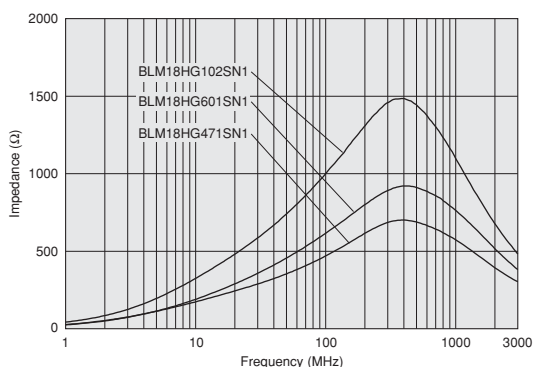
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



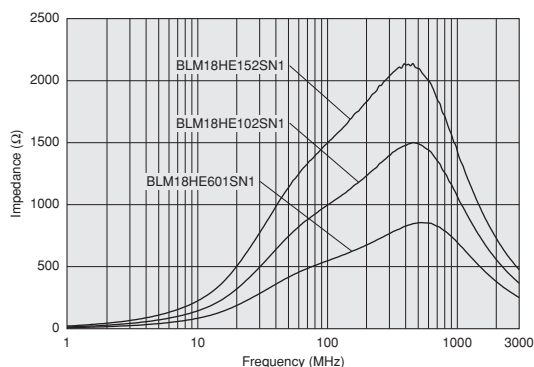
## Impedance-Frequency Characteristics (Main Items)

### BLM18HG Series



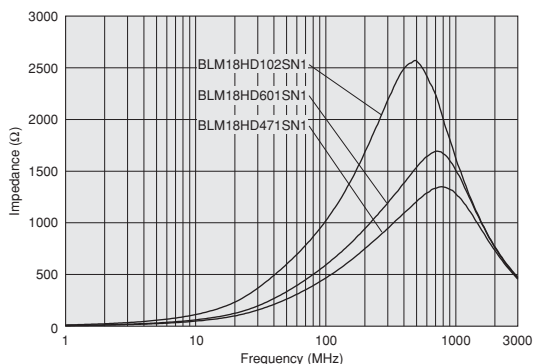
## Impedance-Frequency Characteristics (Main Items)

### BLM18HE Series



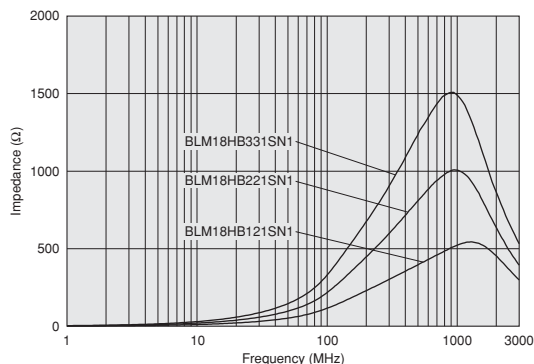
## Impedance-Frequency Characteristics (Main Items)

### BLM18HD Series



## Impedance-Frequency Characteristics (Main Items)

### BLM18HB Series



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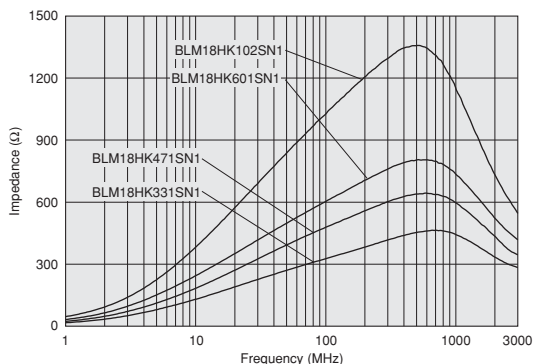
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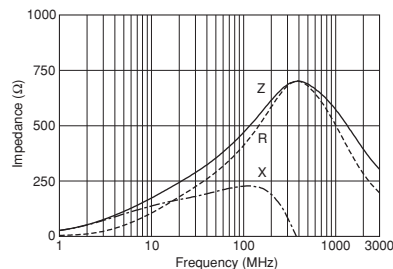
### Impedance-Frequency Characteristics (Main Items)

#### BLM18HK Series



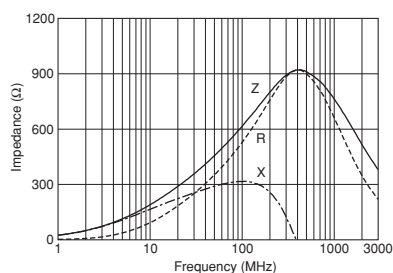
### Impedance-Frequency Characteristics

#### BLM18HG471SN1



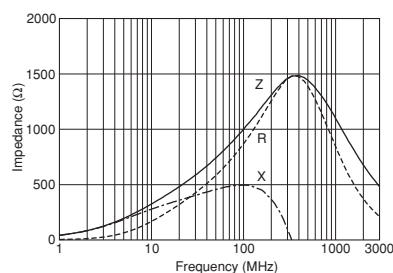
### Impedance-Frequency Characteristics

#### BLM18HG601SN1



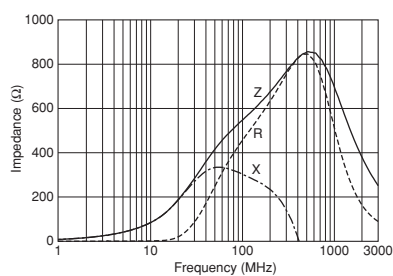
### Impedance-Frequency Characteristics

#### BLM18HG102SN1



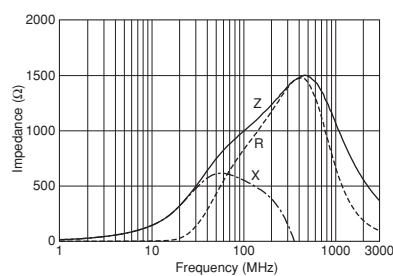
### Impedance-Frequency Characteristics

#### BLM18HE601SN1



### Impedance-Frequency Characteristics

#### BLM18HE102SN1



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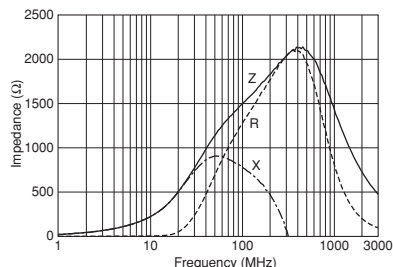
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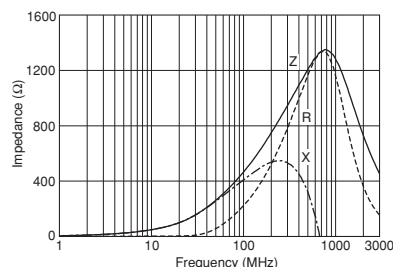
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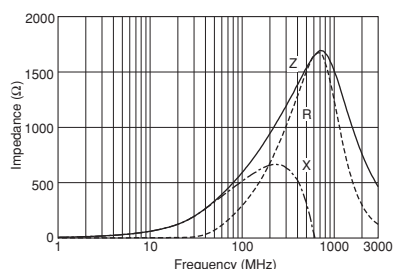
### Impedance-Frequency Characteristics BLM18HE152SN1



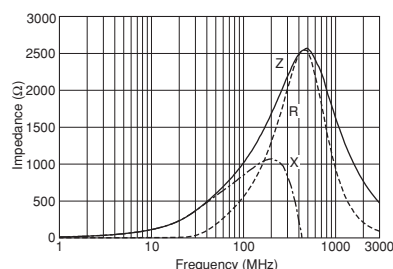
### Impedance-Frequency Characteristics BLM18HD471SN1



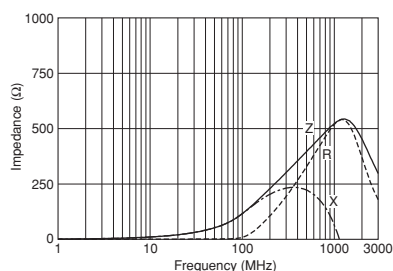
### Impedance-Frequency Characteristics BLM18HD601SN1



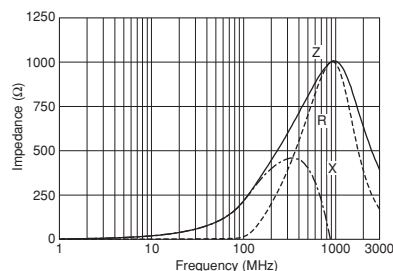
### Impedance-Frequency Characteristics BLM18HD102SN1



### Impedance-Frequency Characteristics BLM18HB121SN1



### Impedance-Frequency Characteristics BLM18HB221SN1



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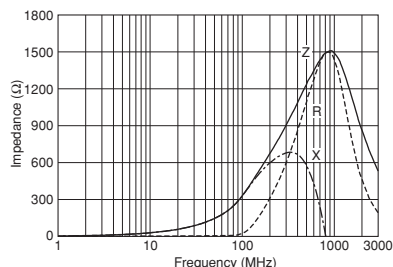
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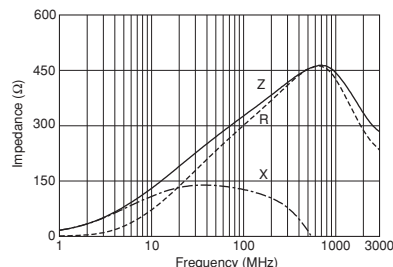
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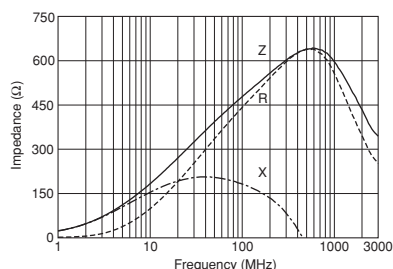
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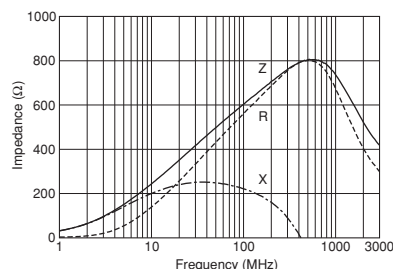
### Impedance-Frequency Characteristics BLM18HK331SN1



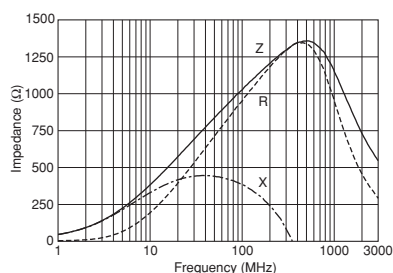
### Impedance-Frequency Characteristics BLM18HK471SN1



### Impedance-Frequency Characteristics BLM18HK601SN1



### Impedance-Frequency Characteristics BLM18HK102SN1




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### ■ ⚠ 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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