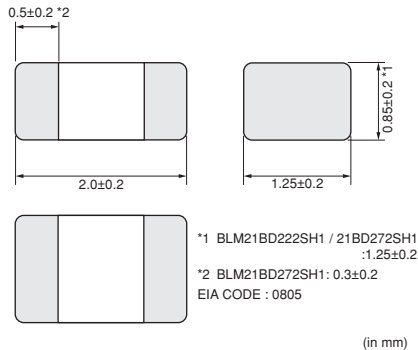


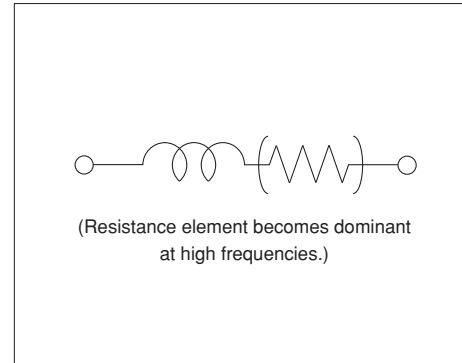
# For Automotive chip Ferrite Bead for Automotive

## BLM21B Series (0805 Size)

### ■ Dimensions



### ■ Equivalent Circuit



### ■ Packaging

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

#### • Only applied to BLM21BD222SH1/21BD272SH1

| Code | Packaging          | Minimum Quantity |
|------|--------------------|------------------|
| L    | 180mm Plastic Tape | 3000             |
| K    | 330mm Plastic 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 |
|----------------|-------------------------------|-----------------------------|---------------|---------------|--------------------------------|
| BLM21BD121SH1□ | 120ohm ±25%                   | -                           | 200mA         | 0.25ohm max.  | -55 to +125°C                  |
| BLM21BD151SH1□ | 150ohm ±25%                   | -                           | 200mA         | 0.25ohm max.  | -55 to +125°C                  |
| BLM21BD221SH1□ | 220ohm ±25%                   | -                           | 200mA         | 0.25ohm max.  | -55 to +125°C                  |
| BLM21BD331SH1□ | 330ohm ±25%                   | -                           | 200mA         | 0.30ohm max.  | -55 to +125°C                  |
| BLM21BD421SH1□ | 420ohm ±25%                   | -                           | 200mA         | 0.30ohm max.  | -55 to +125°C                  |
| BLM21BD471SH1□ | 470ohm ±25%                   | -                           | 200mA         | 0.35ohm max.  | -55 to +125°C                  |
| BLM21BD601SH1□ | 600ohm ±25%                   | -                           | 200mA         | 0.35ohm max.  | -55 to +125°C                  |
| BLM21BD751SH1□ | 750ohm ±25%                   | -                           | 200mA         | 0.40ohm max.  | -55 to +125°C                  |
| BLM21BD102SH1□ | 1000ohm ±25%                  | -                           | 200mA         | 0.40ohm max.  | -55 to +125°C                  |
| BLM21BD152SH1□ | 1500ohm ±25%                  | -                           | 200mA         | 0.45ohm max.  | -55 to +125°C                  |
| BLM21BD182SH1□ | 1800ohm ±25%                  | -                           | 200mA         | 0.50ohm max.  | -55 to +125°C                  |
| BLM21BD222TH1□ | 2200ohm ±25%                  | -                           | 200mA         | 0.60ohm max.  | -55 to +125°C                  |
| BLM21BD222SH1□ | 2250ohm (Typ.)                | -                           | 200mA         | 0.60ohm max.  | -55 to +125°C                  |
| BLM21BD272SH1□ | 2700ohm ±25%                  | -                           | 200mA         | 0.80ohm max.  | -55 to +125°C                  |
| BLM21BB050SH1□ | 5ohm ±25%                     | -                           | 1000mA        | 0.02ohm max.  | -55 to +125°C                  |
| BLM21BB600SH1□ | 60ohm ±25%                    | -                           | 800mA         | 0.13ohm max.  | -55 to +125°C                  |
| BLM21BB750SH1□ | 75ohm ±25%                    | -                           | 700mA         | 0.16ohm max.  | -55 to +125°C                  |
| BLM21BB121SH1□ | 120ohm ±25%                   | -                           | 600mA         | 0.19ohm max.  | -55 to +125°C                  |
| BLM21BB151SH1□ | 150ohm ±25%                   | -                           | 600mA         | 0.21ohm max.  | -55 to +125°C                  |
| BLM21BB201SH1□ | 200ohm ±25%                   | -                           | 500mA         | 0.26ohm 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:

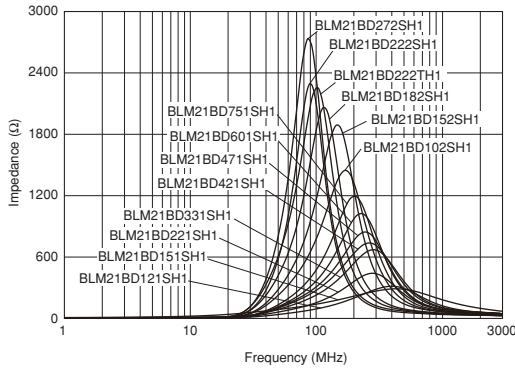
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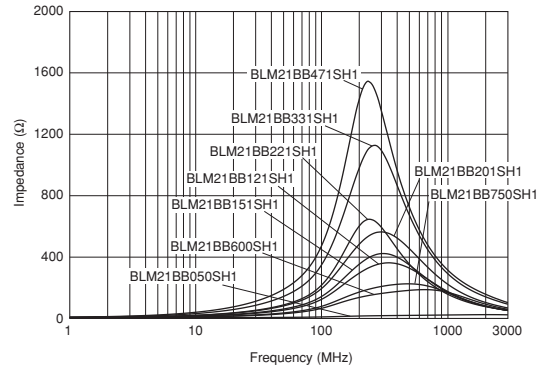
| Part Number    | Impedance<br>(at 100MHz/20°C) | Impedance<br>(at 1GHz/20°C) | Rated Current | DC Resistance | Operating<br>Temperature Range |
|----------------|-------------------------------|-----------------------------|---------------|---------------|--------------------------------|
| BLM21BB221SH1□ | 220ohm ±25%                   | -                           | 500mA         | 0.26ohm max.  | -55 to +125°C                  |
| BLM21BB331SH1□ | 330ohm ±25%                   | -                           | 400mA         | 0.33ohm max.  | -55 to +125°C                  |
| BLM21BB471SH1□ | 470ohm ±25%                   | -                           | 400mA         | 0.4ohm max.   | -55 to +125°C                  |

Number of Circuits: 1

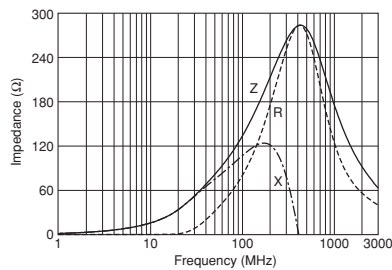
### ■ Impedance-Frequency Characteristics (Main Items) BLM21BD Series



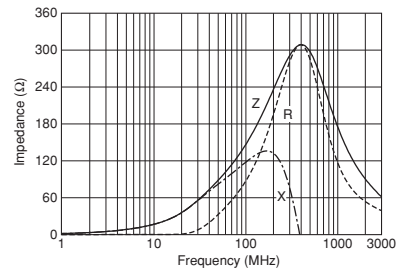
### ■ Impedance-Frequency Characteristics (Main Items) BLM21BB Series



### ■ Impedance-Frequency Characteristics BLM21BD121SH1



### ■ Impedance-Frequency Characteristics BLM21BD151SH1



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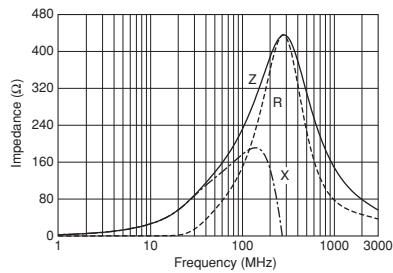
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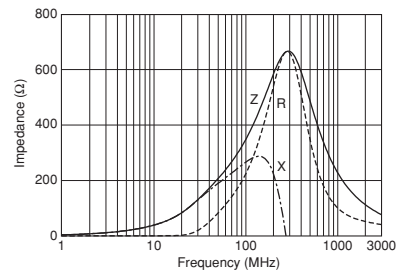
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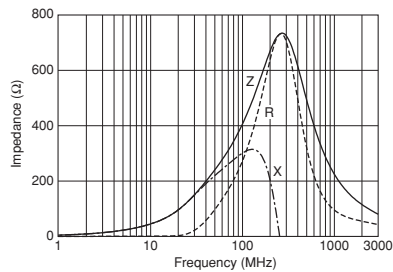
### Impedance-Frequency Characteristics BLM21BD221SH1



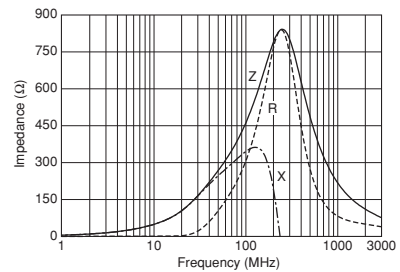
### Impedance-Frequency Characteristics BLM21BD331SH1



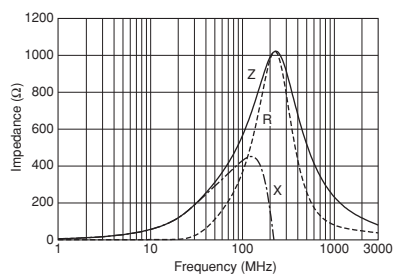
### Impedance-Frequency Characteristics BLM21BD421SH1



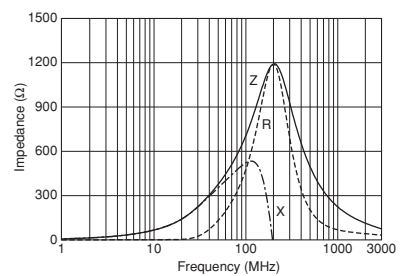
### Impedance-Frequency Characteristics BLM21BD471SH1



### Impedance-Frequency Characteristics BLM21BD601SH1



### Impedance-Frequency Characteristics BLM21BD751SH1



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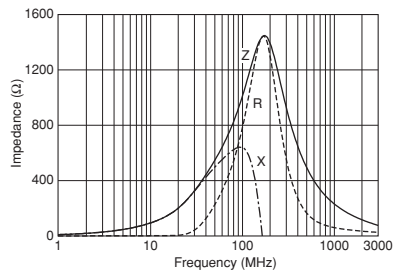
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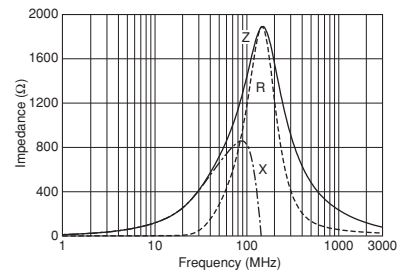
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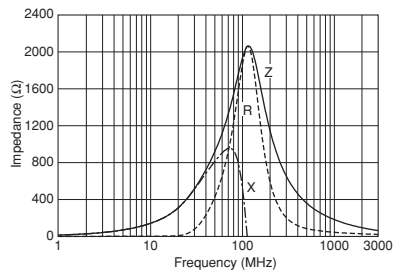
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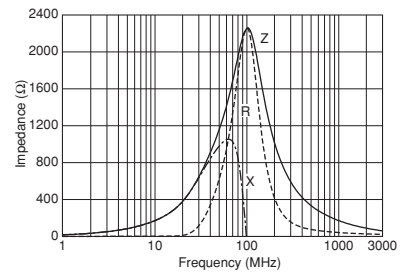
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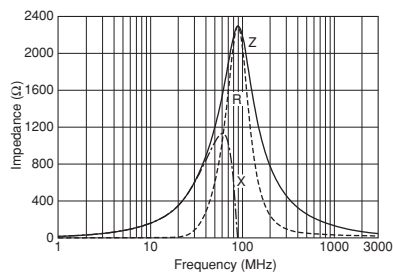
### Impedance-Frequency Characteristics BLM21BD182SH1



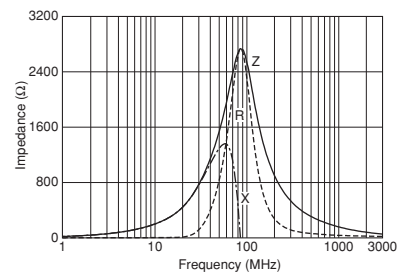
### Impedance-Frequency Characteristics BLM21BD222TH1



### Impedance-Frequency Characteristics BLM21BD222SH1



### Impedance-Frequency Characteristics BLM21BD272SH1



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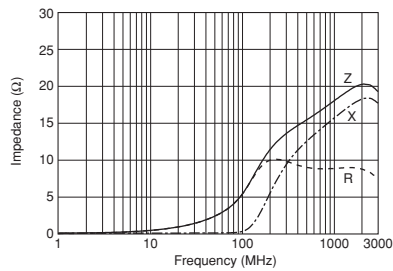
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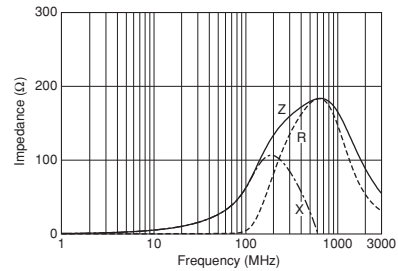
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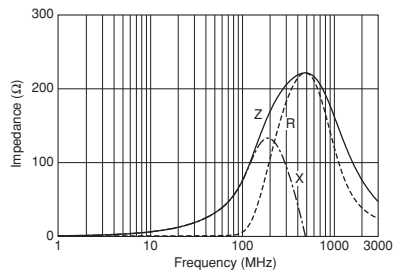
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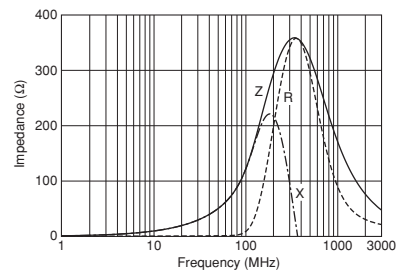
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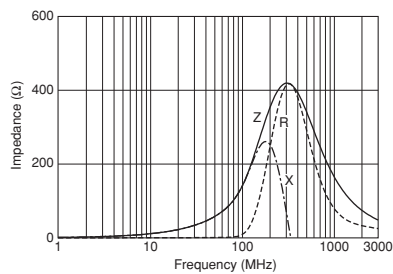
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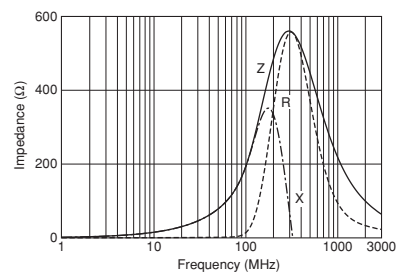
### Impedance-Frequency Characteristics BLM21BB121SH1



### Impedance-Frequency Characteristics BLM21BB151SH1



### Impedance-Frequency Characteristics BLM21BB201SH1



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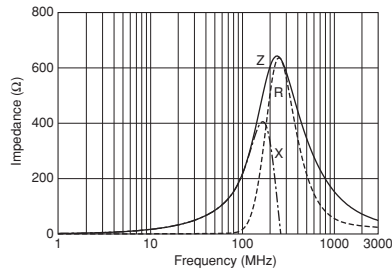
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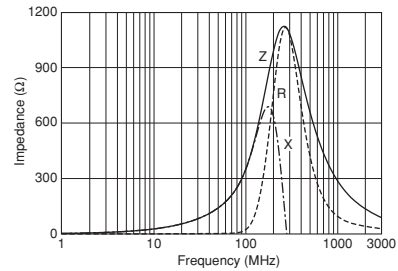
### Impedance-Frequency Characteristics

BLM21BB221SH1



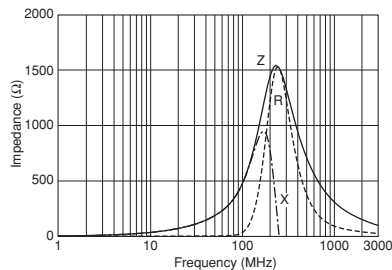
### Impedance-Frequency Characteristics

BLM21BB331SH1



### Impedance-Frequency Characteristics

BLM21BB471SH1



### ⚠ 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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