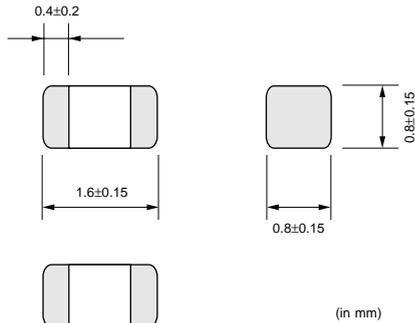


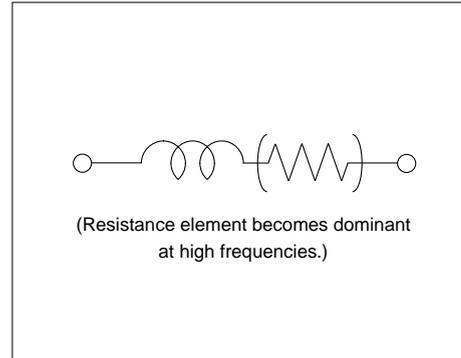
# Chip EMIFIL<sup>®</sup> Inductor Type Chip Ferrite Beads

## BLM18B Series (0603 Size)

### Dimension



### 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(max.) | Operating<br>Temperature Range | Number of Circuits |
|----------------|-------------------------------|-----------------------------|---------------|---------------------|--------------------------------|--------------------|
| BLM18BA050SN1□ | 5ohm±25%                      | -                           | 500mA         | 0.20ohm             | -55°C to +125°C                | 1                  |
| BLM18BB050SN1□ | 5ohm±25%                      | -                           | 700mA         | 0.10ohm             | -55°C to +125°C                | 1                  |
| BLM18BA100SN1□ | 10ohm±25%                     | -                           | 500mA         | 0.25ohm             | -55°C to +125°C                | 1                  |
| BLM18BB100SN1□ | 10ohm±25%                     | -                           | 500mA         | 0.15ohm             | -55°C to +125°C                | 1                  |
| BLM18BA220SN1□ | 22ohm±25%                     | -                           | 500mA         | 0.35ohm             | -55°C to +125°C                | 1                  |
| BLM18BB220SN1□ | 22ohm±25%                     | -                           | 500mA         | 0.25ohm             | -55°C to +125°C                | 1                  |
| BLM18BA470SN1□ | 47ohm±25%                     | -                           | 300mA         | 0.55ohm             | -55°C to +125°C                | 1                  |
| BLM18BB470SN1□ | 47ohm±25%                     | -                           | 500mA         | 0.30ohm             | -55°C to +125°C                | 1                  |
| BLM18BD470SN1□ | 47ohm±25%                     | -                           | 200mA         | 0.30ohm             | -55°C to +125°C                | 1                  |
| BLM18BB600SN1□ | 60ohm±25%                     | -                           | 200mA         | 0.35ohm             | -55°C to +125°C                | 1                  |
| BLM18BA750SN1□ | 75ohm±25%                     | -                           | 300mA         | 0.70ohm             | -55°C to +125°C                | 1                  |
| BLM18BB750SN1□ | 75ohm±25%                     | -                           | 200mA         | 0.35ohm             | -55°C to +125°C                | 1                  |
| BLM18BA121SN1□ | 120ohm±25%                    | -                           | 200mA         | 0.90ohm             | -55°C to +125°C                | 1                  |
| BLM18BB121SN1□ | 120ohm±25%                    | -                           | 200mA         | 0.50ohm             | -55°C to +125°C                | 1                  |
| BLM18BD121SN1□ | 120ohm±25%                    | -                           | 200mA         | 0.40ohm             | -55°C to +125°C                | 1                  |
| BLM18BB141SN1□ | 140ohm±25%                    | -                           | 200mA         | 0.55ohm             | -55°C to +125°C                | 1                  |
| BLM18BB151SN1□ | 150ohm±25%                    | -                           | 200mA         | 0.55ohm             | -55°C to +125°C                | 1                  |
| BLM18BD151SN1□ | 150ohm±25%                    | -                           | 200mA         | 0.40ohm             | -55°C to +125°C                | 1                  |
| BLM18BB221SN1□ | 220ohm±25%                    | -                           | 200mA         | 0.65ohm             | -55°C to +125°C                | 1                  |

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

### Note:

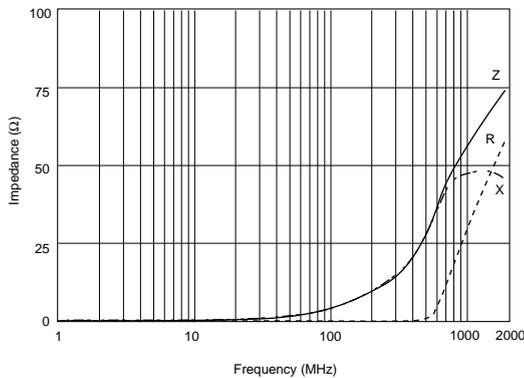
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Continued from the preceding page.

| Part Number    | Impedance (at 100MHz/20°C) | Impedance (at 1GHz/20°C) | Rated Current | DC Resistance(max.) | Operating Temperature Range | Number of Circuits |
|----------------|----------------------------|--------------------------|---------------|---------------------|-----------------------------|--------------------|
| BLM18BD221SN1□ | 220ohm±25%                 | -                        | 200mA         | 0.45ohm             | -55°C to +125°C             | 1                  |
| BLM18BB331SN1□ | 330ohm±25%                 | -                        | 200mA         | 0.75ohm             | -55°C to +125°C             | 1                  |
| BLM18BD331SN1□ | 330ohm±25%                 | -                        | 200mA         | 0.50ohm             | -55°C to +125°C             | 1                  |
| BLM18BD421SN1□ | 420ohm±25%                 | -                        | 200mA         | 0.55ohm             | -55°C to +125°C             | 1                  |
| BLM18BB471SN1□ | 470ohm±25%                 | -                        | 50mA          | 1.00ohm             | -55°C to +125°C             | 1                  |
| BLM18BD471SN1□ | 470ohm±25%                 | -                        | 200mA         | 0.55ohm             | -55°C to +125°C             | 1                  |
| BLM18BD601SN1□ | 600ohm±25%                 | -                        | 200mA         | 0.65ohm             | -55°C to +125°C             | 1                  |
| BLM18BD102SN1□ | 1000ohm±25%                | -                        | 100mA         | 0.85ohm             | -55°C to +125°C             | 1                  |
| BLM18BD152SN1□ | 1500ohm±25%                | -                        | 50mA          | 1.20ohm             | -55°C to +125°C             | 1                  |
| BLM18BD182SN1□ | 1800ohm±25%                | -                        | 50mA          | 1.50ohm             | -55°C to +125°C             | 1                  |
| BLM18BD222SN1□ | 2200ohm±25%                | -                        | 50mA          | 1.50ohm             | -55°C to +125°C             | 1                  |
| BLM18BD252SN1□ | 2500ohm±25%                | -                        | 50mA          | 1.50ohm             | -55°C to +125°C             | 1                  |

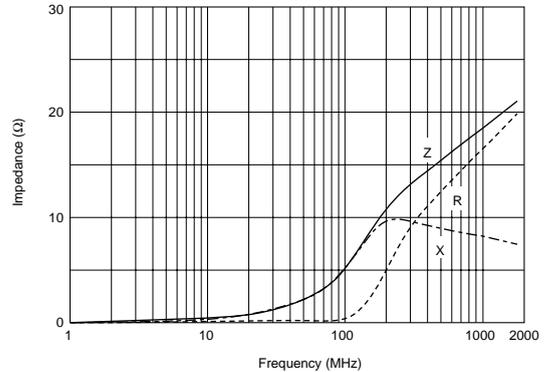
■ Impedance-Frequency Characteristics

BLM18BA050SN1



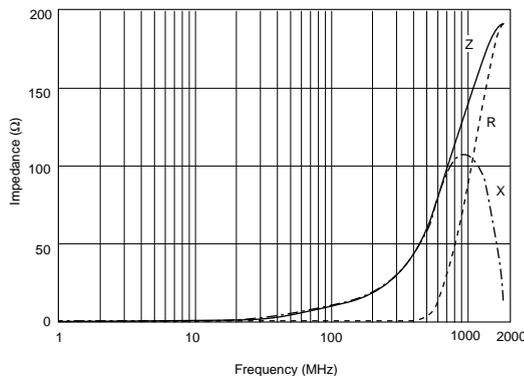
■ Impedance-Frequency Characteristics

BLM18BB050SN1



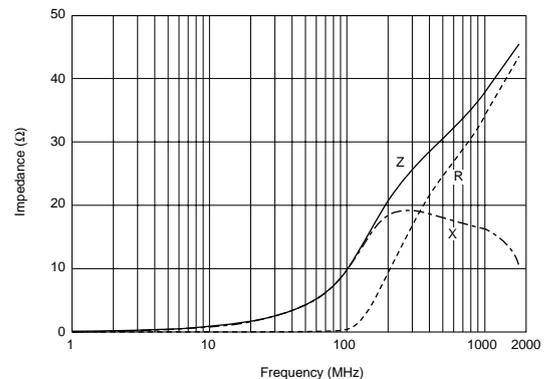
■ Impedance-Frequency Characteristics

BLM18BA100SN1



■ Impedance-Frequency Characteristics

BLM18BB100SN1



Continued on the following page. ↗

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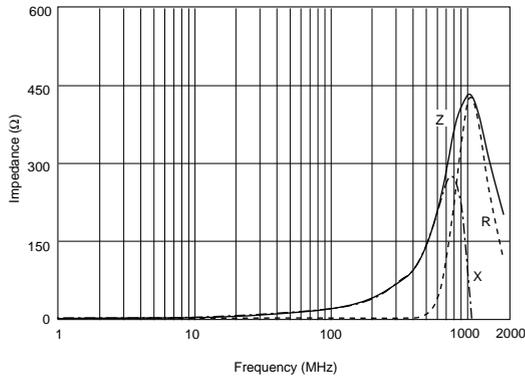
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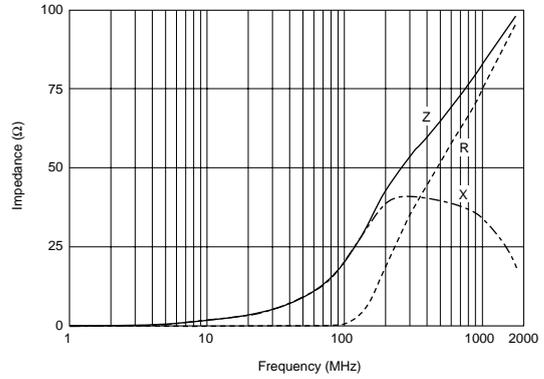
■ Impedance-Frequency Characteristics

BLM18BA220SN1



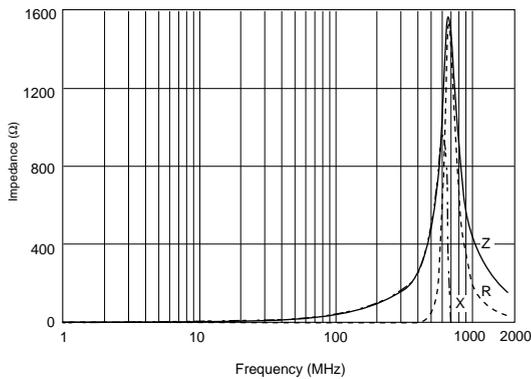
■ Impedance-Frequency Characteristics

BLM18BB220SN1



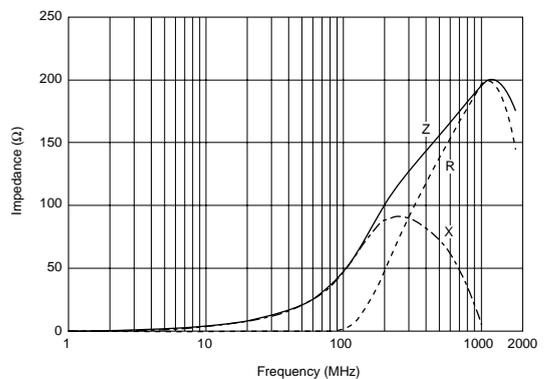
■ Impedance-Frequency Characteristics

BLM18BA470SN1



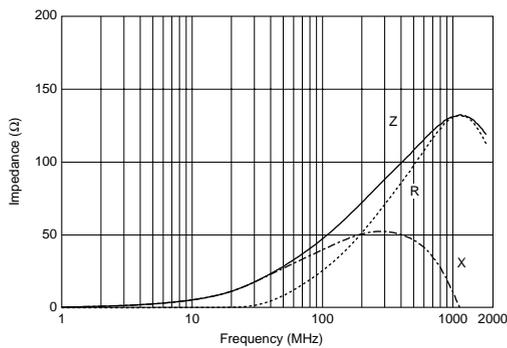
■ Impedance-Frequency Characteristics

BLM18BB470SN1



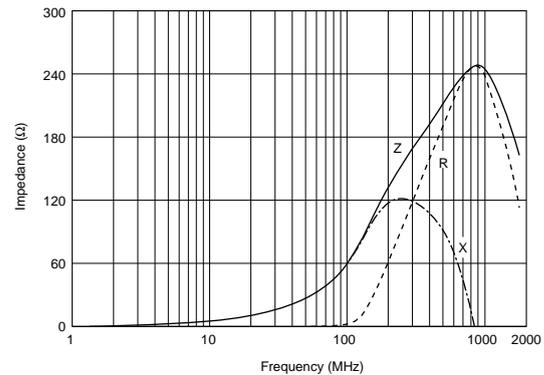
■ Impedance-Frequency Characteristics

BLM18BD470SN1



■ Impedance-Frequency Characteristics

BLM18BB600SN1



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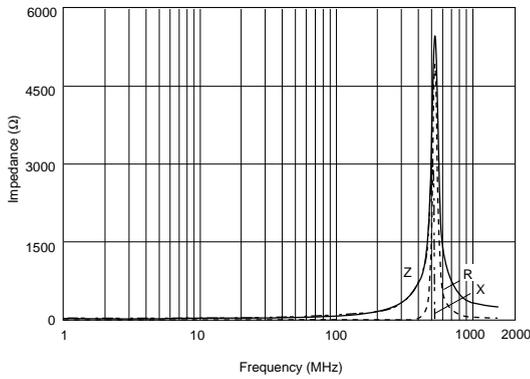
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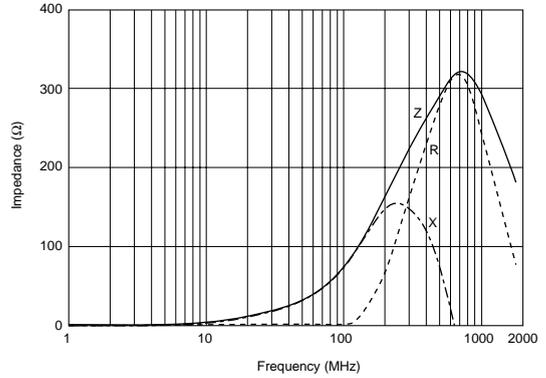
■ Impedance-Frequency Characteristics

**BLM18BA750SN1**



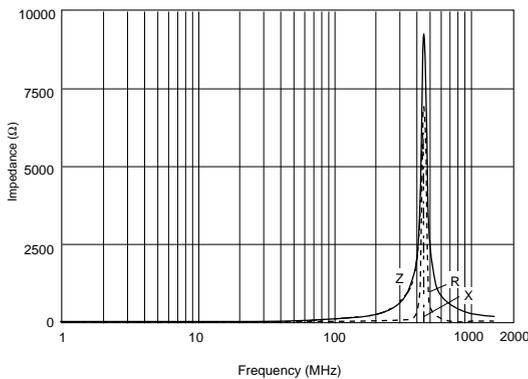
■ Impedance-Frequency Characteristics

**BLM18BB750SN1**



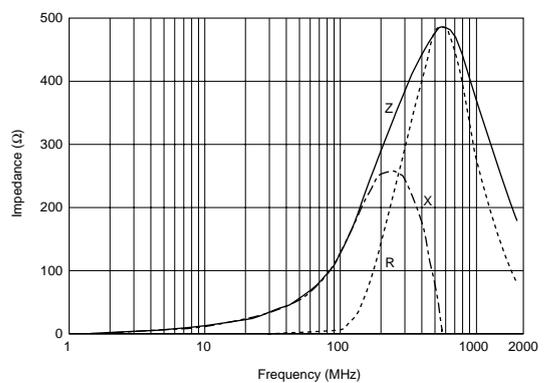
■ Impedance-Frequency Characteristics

**BLM18BA121SN1**



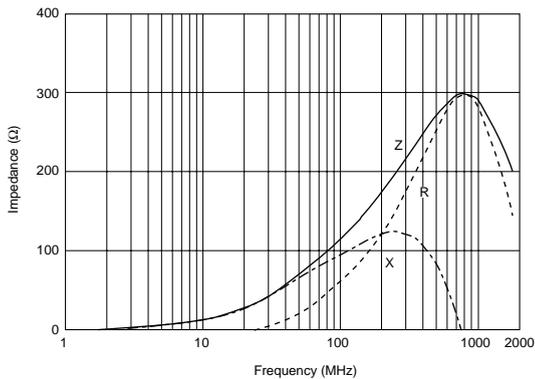
■ Impedance-Frequency Characteristics

**BLM18BB121SN1**



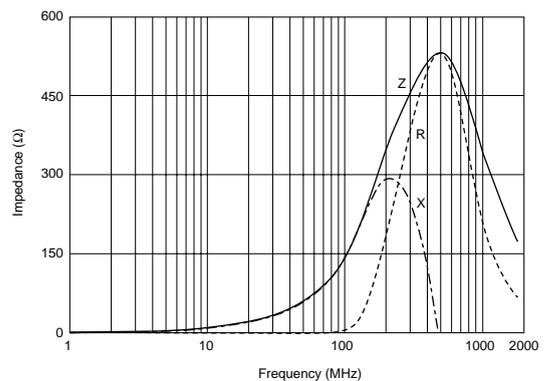
■ Impedance-Frequency Characteristics

**BLM18BD121SN1**



■ Impedance-Frequency Characteristics

**BLM18BB141SN1**



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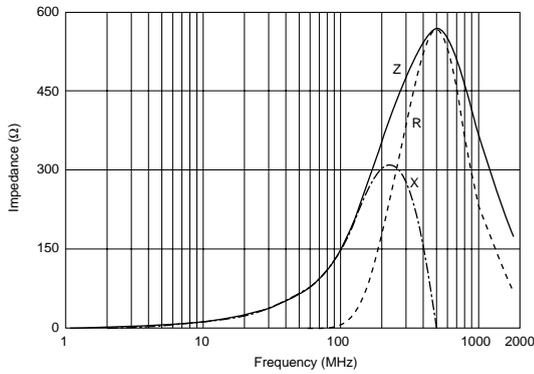
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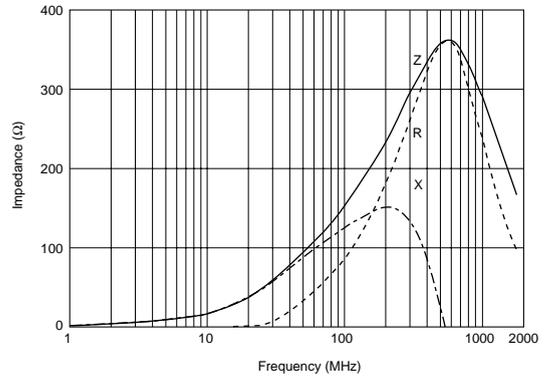
■ Impedance-Frequency Characteristics

**BLM18BB151SN1**



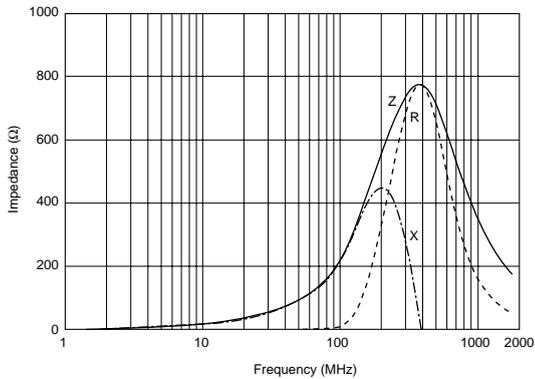
■ Impedance-Frequency Characteristics

**BLM18BD151SN1**



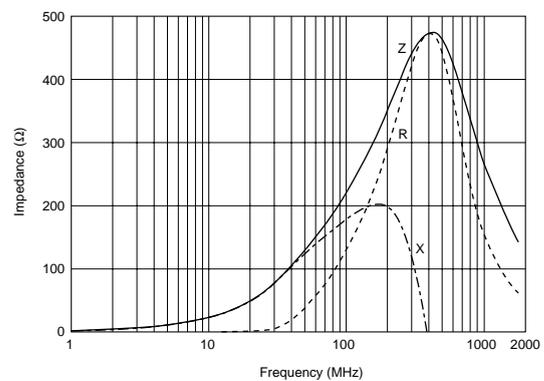
■ Impedance-Frequency Characteristics

**BLM18BB221SN1**



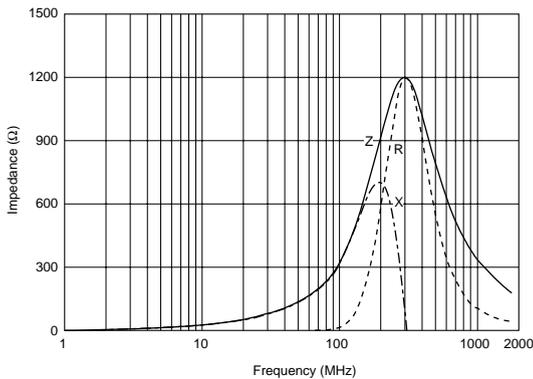
■ Impedance-Frequency Characteristics

**BLM18BD221SN1**



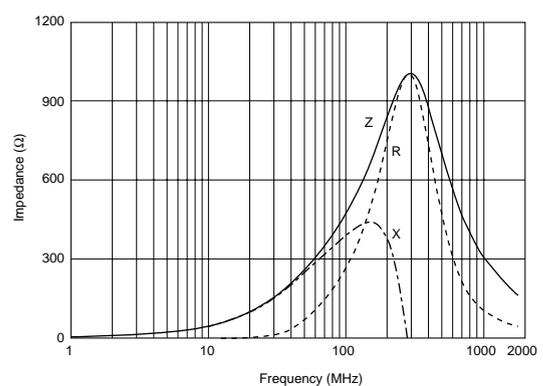
■ Impedance-Frequency Characteristics

**BLM18BB331SN1**



■ Impedance-Frequency Characteristics

**BLM18BD331SN1**



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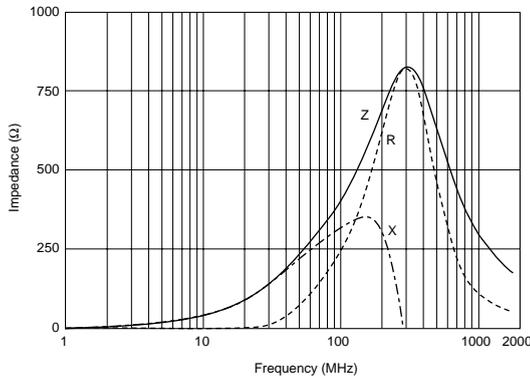
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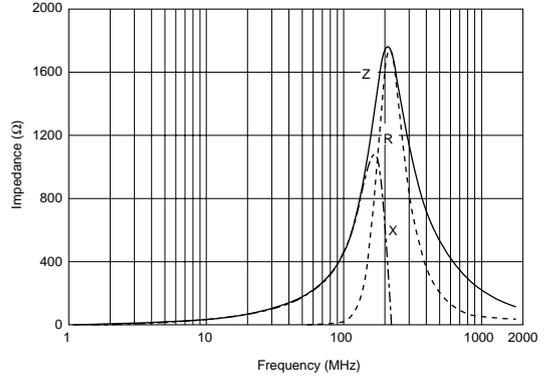
■ Impedance-Frequency Characteristics

**BLM18BD421SN1**



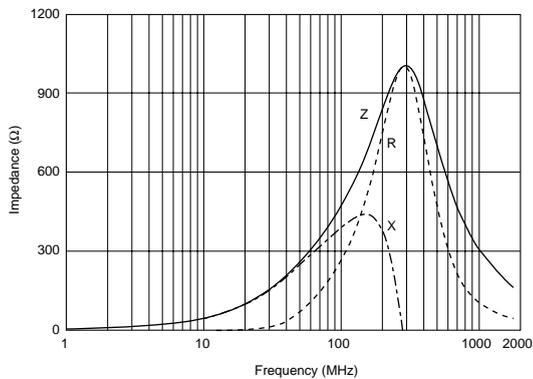
■ Impedance-Frequency Characteristics

**BLM18BB471SN1**



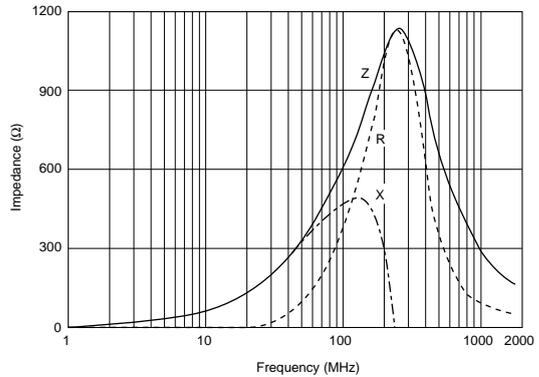
■ Impedance-Frequency Characteristics

**BLM18BD471SN1**



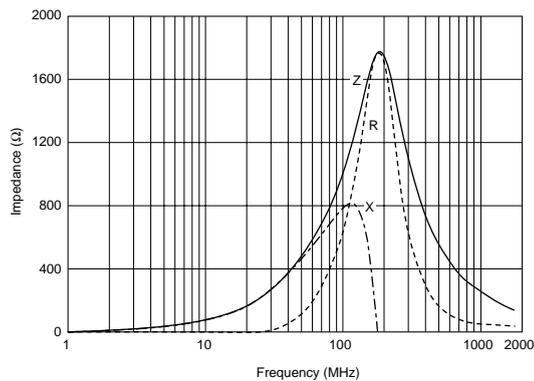
■ Impedance-Frequency Characteristics

**BLM18BD601SN1**



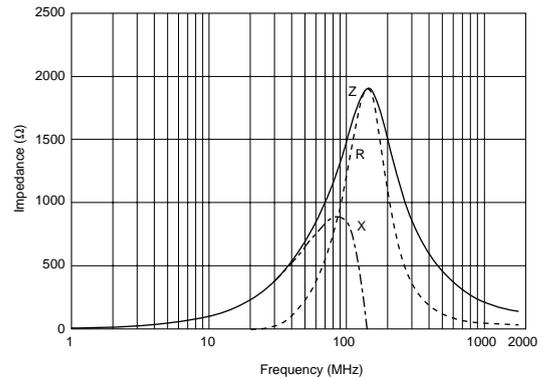
■ Impedance-Frequency Characteristics

**BLM18BD102SN1**



■ Impedance-Frequency Characteristics

**BLM18BD152SN1**



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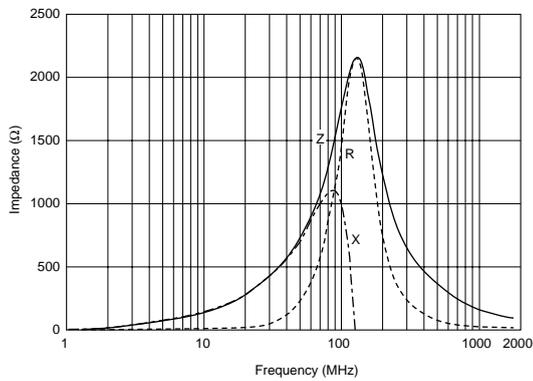
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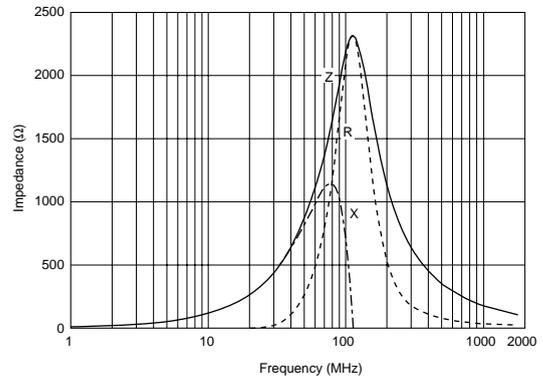
### ■ Impedance-Frequency Characteristics

**BLM18BD182SN1**



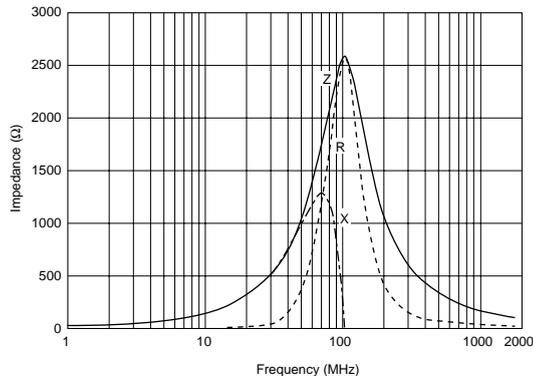
### ■ Impedance-Frequency Characteristics

**BLM18BD222SN1**



### ■ Impedance-Frequency Characteristics

**BLM18BD252SN1**



### ■ ⚠ Caution/Notice

#### ⚠ Caution (Rating)

Do not use products beyond the rated current and rated voltage 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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