

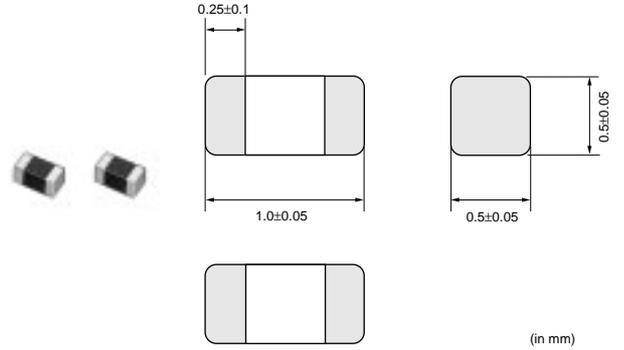
## BLM15B Series

### ■ Features

The chip ferrite beads BLM series is designed to function nearly as a resistor at noise frequencies, which greatly reduces the possibility of resonance and leaves signal wave forms undistorted.

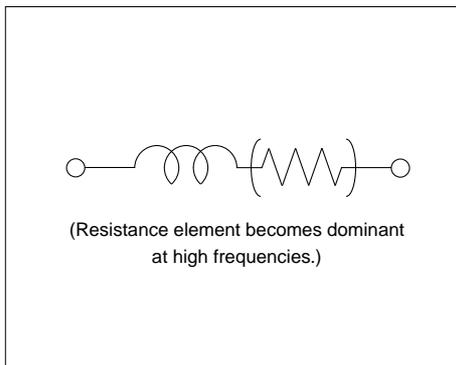
BLM series is effective in circuits without stable ground lines because BLM series does not need a connection to ground.

The nickel barrier structure of the external electrodes provides excellent solder heat resistance. BLM\_B series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency.

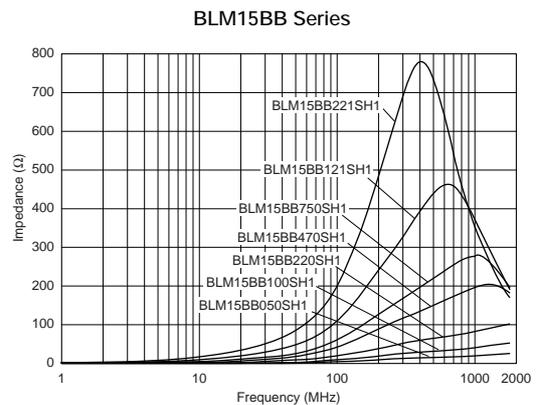


| Part Number   | Impedance (at 100MHz/20°C) (ohm) | Rated Current (mA) | DC Resistance (max.) (ohm) | Operating Temperature Range (°C) |
|---------------|----------------------------------|--------------------|----------------------------|----------------------------------|
| BLM15BB050SH1 | 5 ±25%                           | 500                | 0.08                       | -55 to +125                      |
| BLM15BB100SH1 | 10 ±25%                          | 300                | 0.10                       | -55 to +125                      |
| BLM15BB220SH1 | 22 ±25%                          | 300                | 0.20                       | -55 to +125                      |
| BLM15BB470SH1 | 47 ±25%                          | 300                | 0.35                       | -55 to +125                      |
| BLM15BB750SH1 | 75 ±25%                          | 300                | 0.40                       | -55 to +125                      |
| BLM15BB121SH1 | 120 ±25%                         | 300                | 0.55                       | -55 to +125                      |
| BLM15BB221SH1 | 220 ±25%                         | 200                | 0.80                       | -55 to +125                      |
| BLM15BD471SH1 | 470 ±25%                         | 200                | 0.60                       | -55 to +125                      |
| BLM15BD601SH1 | 600 ±25%                         | 200                | 0.65                       | -55 to +125                      |
| BLM15BD102SH1 | 1000 ±25%                        | 200                | 0.90                       | -55 to +125                      |
| BLM15BD182SH1 | 1800 ±25%                        | 200                | 1.40                       | -55 to +125                      |

### ■ Equivalent Circuit



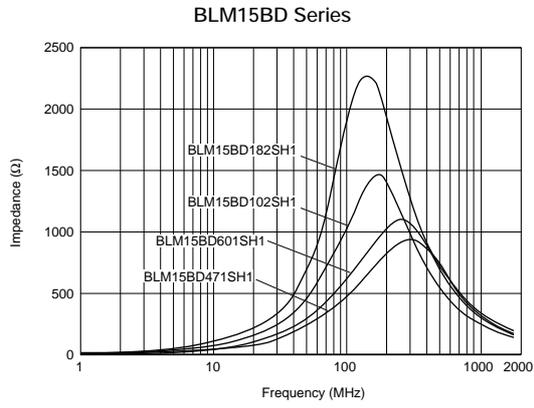
### ■ Impedance - Frequency (Typical)



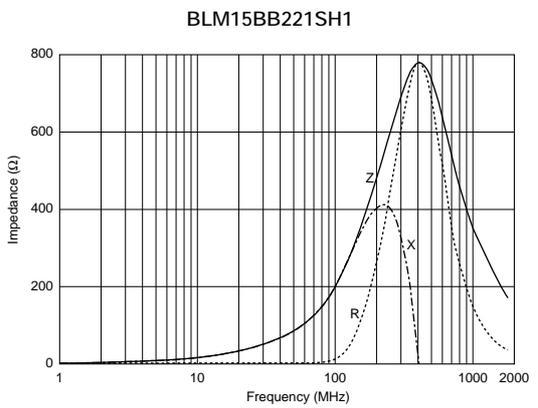
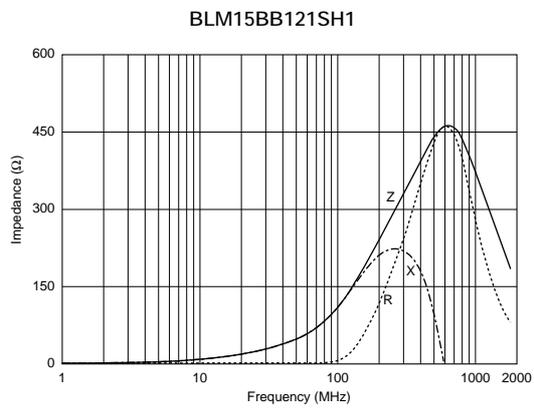
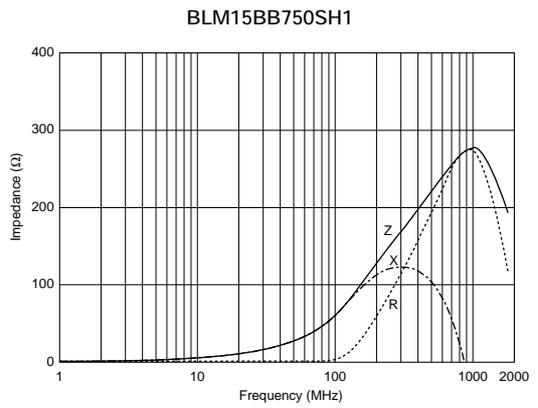
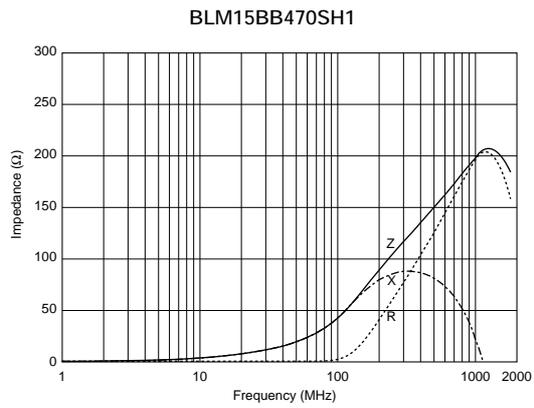
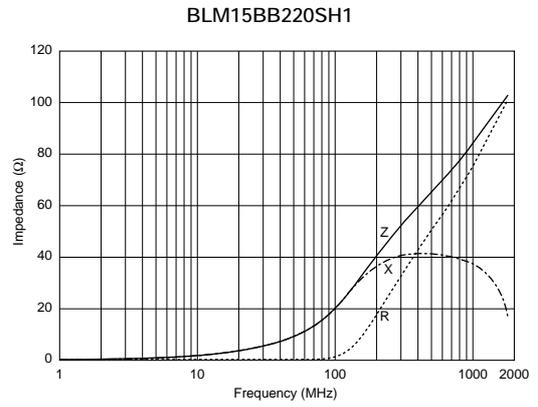
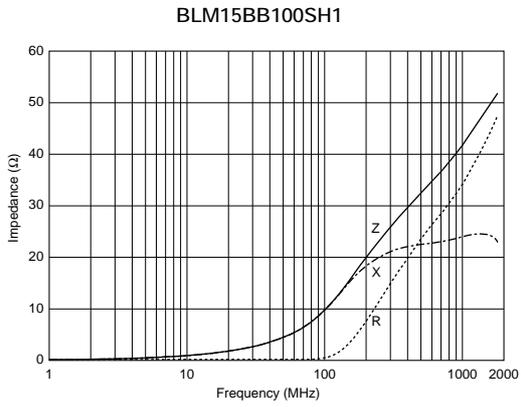
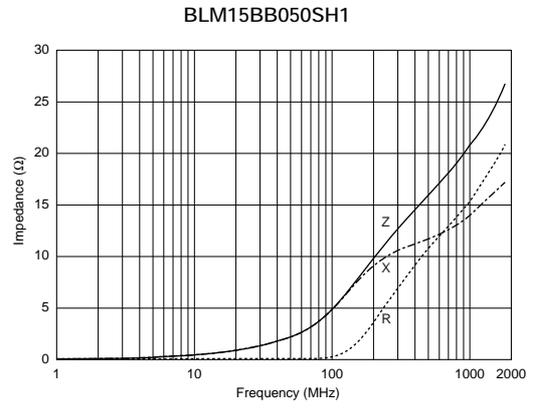
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### ■ Impedance - Frequency (Typical)



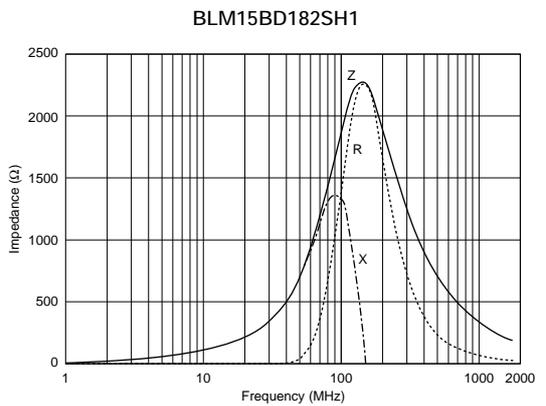
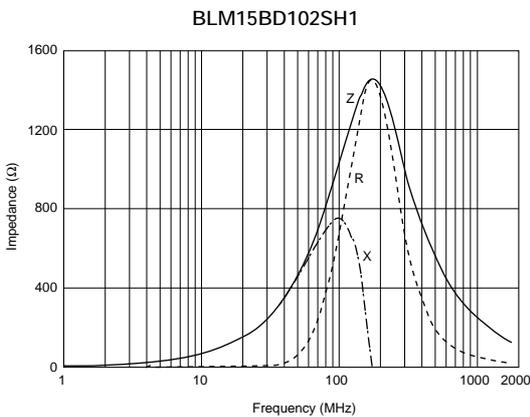
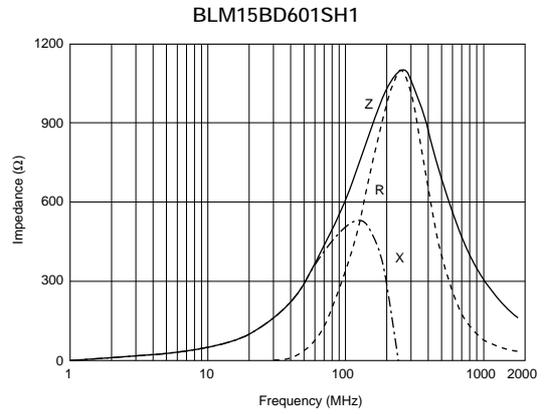
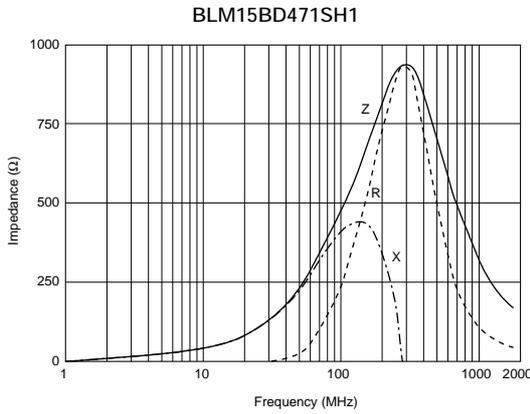
### ■ Impedance - Frequency Characteristics



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## Impedance - Frequency Characteristics



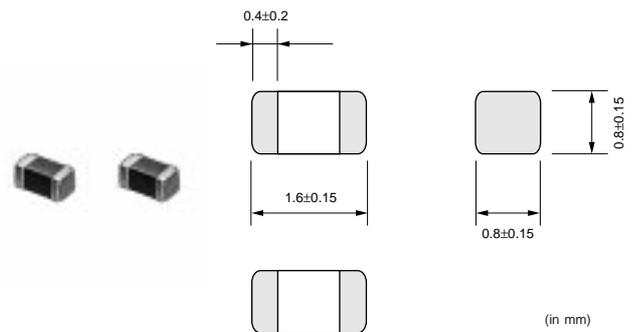
## BLM18B Series

### Features

The chip ferrite beads BLM series is designed to function nearly as a resistor at noise frequencies, which greatly reduces the possibility of resonance and leaves signal wave forms undistorted.

BLM series is effective in circuits without stable ground lines because BLM series does not need a connection to ground.

The nickel barrier structure of the external electrodes provides excellent solder heat resistance. BLM\_B series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency.



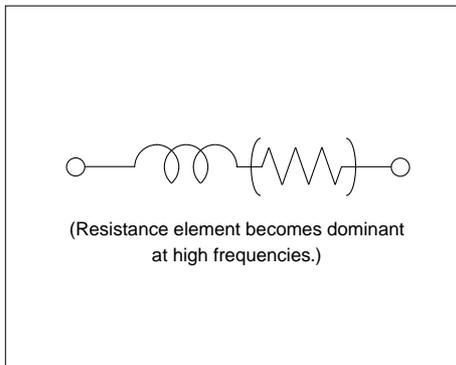
| Part Number   | Impedance (at 100MHz/20°C) (ohm) | Rated Current (mA) | DC Resistance (max.) (ohm) | Operating Temperature Range (°C) |
|---------------|----------------------------------|--------------------|----------------------------|----------------------------------|
| BLM18BA050SH1 | 5 ±25%                           | 500                | 0.20                       | -55 to +125                      |
| BLM18BB050SH1 | 5 ±25%                           | 700                | 0.10                       | -55 to +125                      |
| BLM18BA100SH1 | 10 ±25%                          | 500                | 0.25                       | -55 to +125                      |
| BLM18BB100SH1 | 10 ±25%                          | 500                | 0.15                       | -55 to +125                      |
| BLM18BA220SH1 | 22 ±25%                          | 500                | 0.35                       | -55 to +125                      |
| BLM18BB220SH1 | 22 ±25%                          | 500                | 0.25                       | -55 to +125                      |
| BLM18BA470SH1 | 47 ±25%                          | 300                | 0.55                       | -55 to +125                      |
| BLM18BB470SH1 | 47 ±25%                          | 500                | 0.30                       | -55 to +125                      |
| BLM18BB600SH1 | 60 ±25%                          | 200                | 0.35                       | -55 to +125                      |
| BLM18BA750SH1 | 75 ±25%                          | 300                | 0.70                       | -55 to +125                      |

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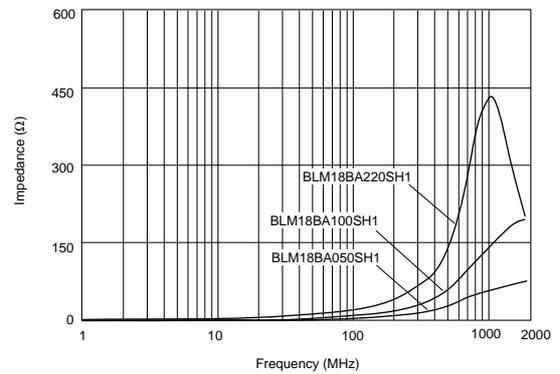
| Part Number   | Impedance (at 100MHz/20°C) (ohm) | Rated Current (mA) | DC Resistance (max.) (ohm) | Operating Temperature Range (°C) |
|---------------|----------------------------------|--------------------|----------------------------|----------------------------------|
| BLM18BB750SH1 | 75 ±25%                          | 200                | 0.35                       | -55 to +125                      |
| BLM18BA121SH1 | 120 ±25%                         | 200                | 0.90                       | -55 to +125                      |
| BLM18BB121SH1 | 120 ±25%                         | 200                | 0.50                       | -55 to +125                      |
| BLM18BD121SH1 | 120 ±25%                         | 200                | 0.40                       | -55 to +125                      |
| BLM18BB141SH1 | 140 ±25%                         | 200                | 0.55                       | -55 to +125                      |
| BLM18BB151SH1 | 150 ±25%                         | 200                | 0.55                       | -55 to +125                      |
| BLM18BD151SH1 | 150 ±25%                         | 200                | 0.40                       | -55 to +125                      |
| BLM18BB221SH1 | 220 ±25%                         | 200                | 0.65                       | -55 to +125                      |
| BLM18BD221SH1 | 220 ±25%                         | 200                | 0.45                       | -55 to +125                      |
| BLM18BB331SH1 | 330 ±25%                         | 200                | 0.75                       | -55 to +125                      |
| BLM18BD331SH1 | 330 ±25%                         | 200                | 0.50                       | -55 to +125                      |
| BLM18BD421SH1 | 420 ±25%                         | 200                | 0.55                       | -55 to +125                      |
| BLM18BB471SH1 | 470 ±25%                         | 50                 | 1.00                       | -55 to +125                      |
| BLM18BD471SH1 | 470 ±25%                         | 200                | 0.55                       | -55 to +125                      |
| BLM18BD601SH1 | 600 ±25%                         | 200                | 0.65                       | -55 to +125                      |
| BLM18BD102SH1 | 1000 ±25%                        | 100                | 0.85                       | -55 to +125                      |
| BLM18BD152SH1 | 1500 ±25%                        | 50                 | 1.20                       | -55 to +125                      |
| BLM18BD182SH1 | 1800 ±25%                        | 50                 | 1.50                       | -55 to +125                      |
| BLM18BD222SH1 | 2200 ±25%                        | 50                 | 1.50                       | -55 to +125                      |
| BLM18BD252SH1 | 2500 ±25%                        | 50                 | 1.50                       | -55 to +125                      |

■ Equivalent Circuit

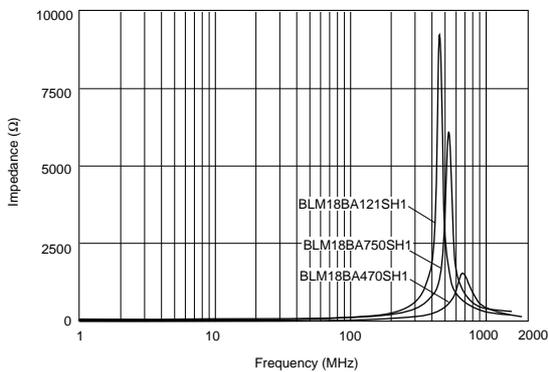


■ Impedance - Frequency (Typical)

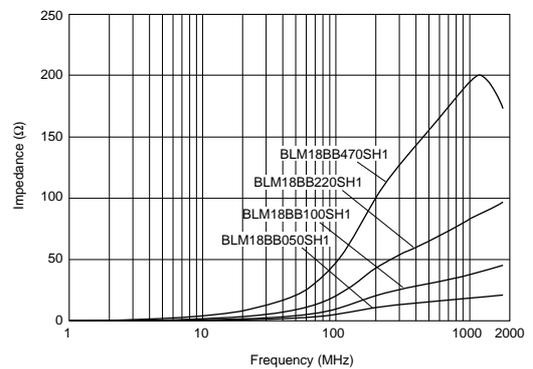
BLM18BA Series



BLM18BA Series



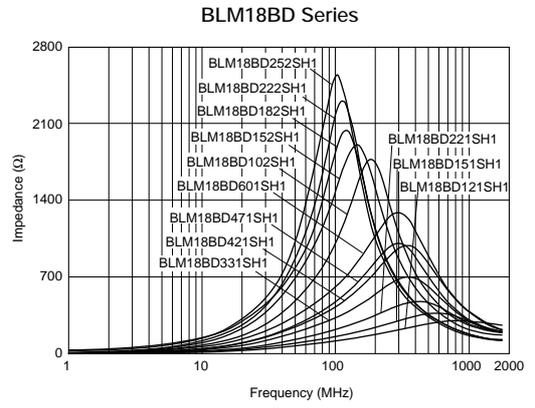
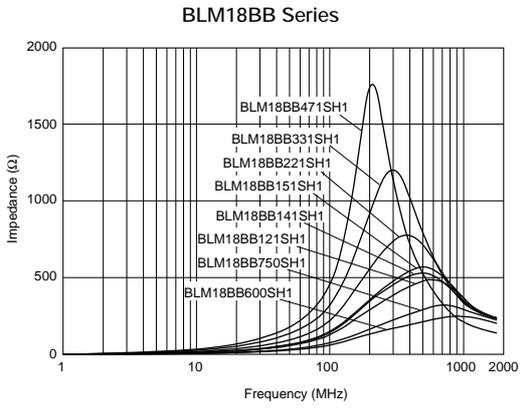
BLM18BB Series



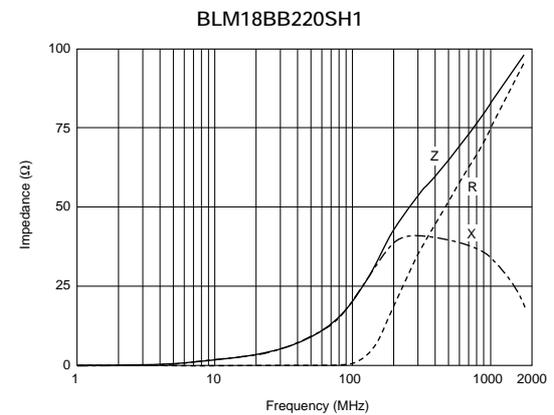
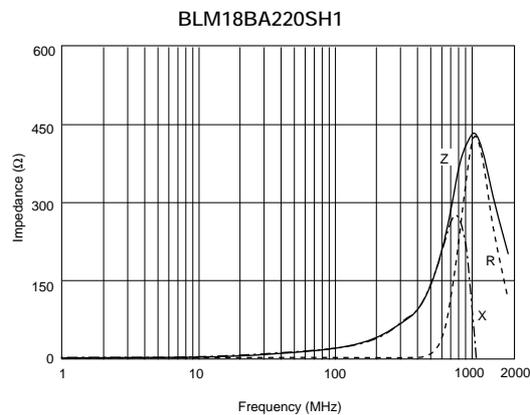
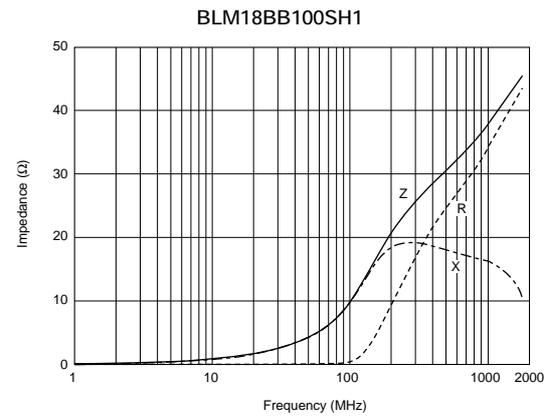
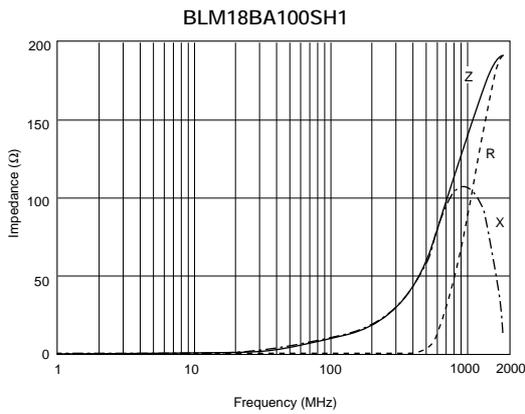
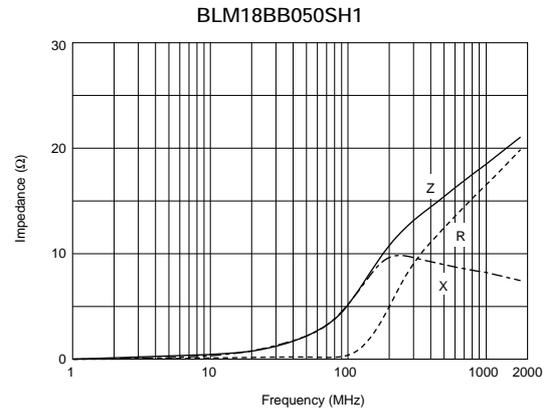
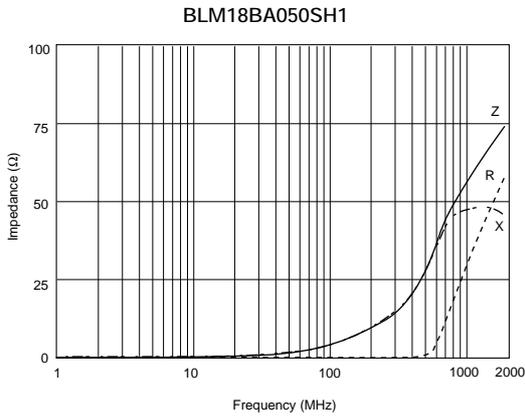
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**Impedance - Frequency (Typical)**



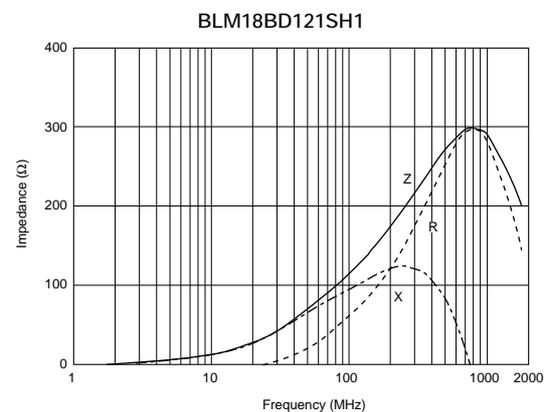
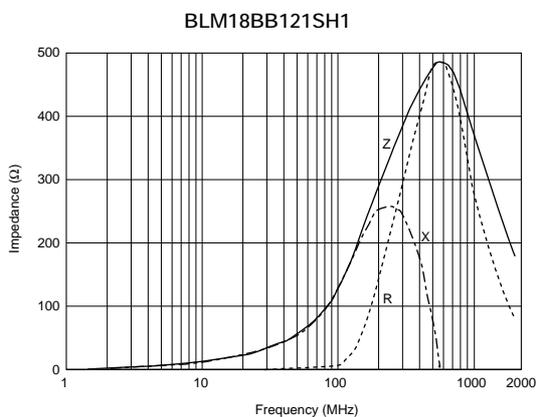
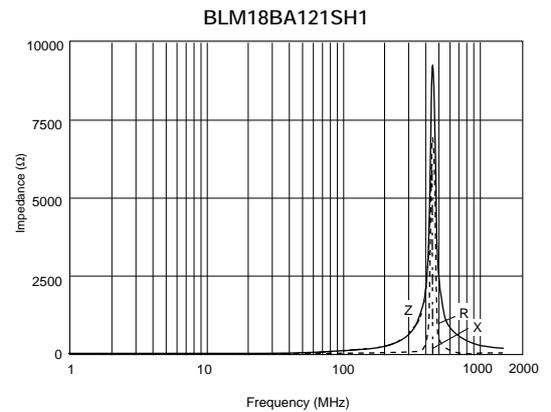
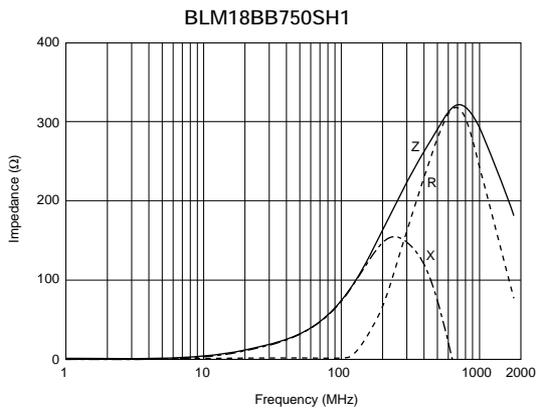
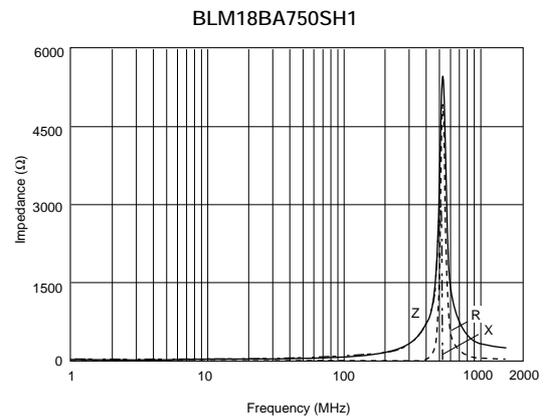
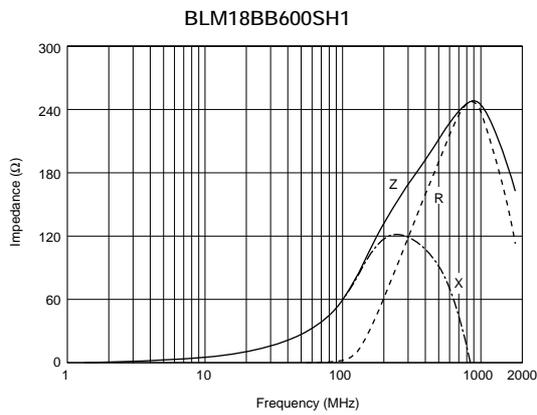
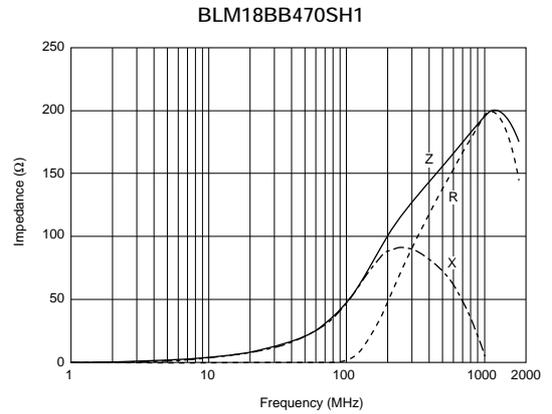
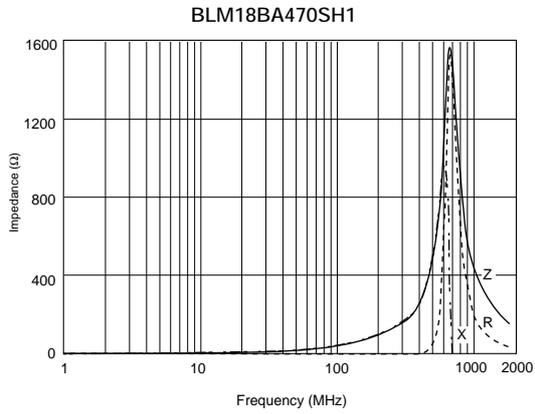
**Impedance - Frequency Characteristics**



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## Impedance - Frequency Characteristics

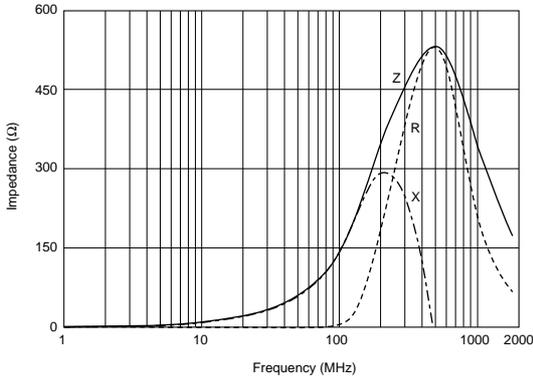


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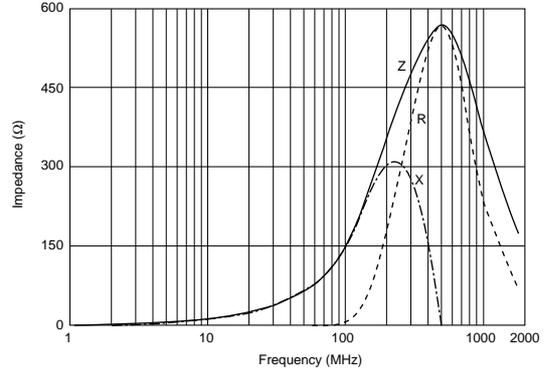
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Impedance - Frequency Characteristics

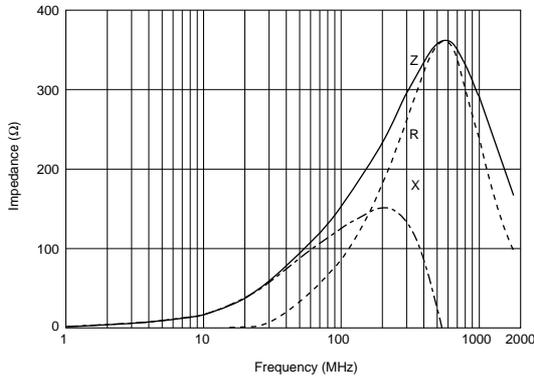
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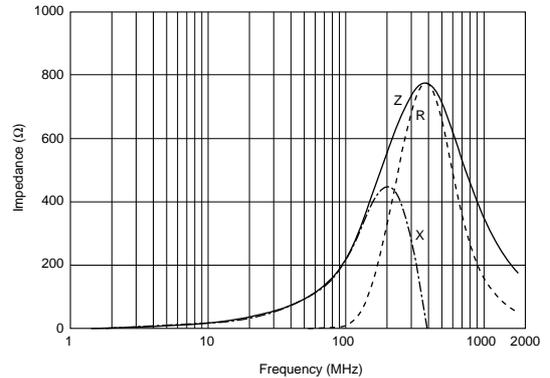
BLM18BB151SH1



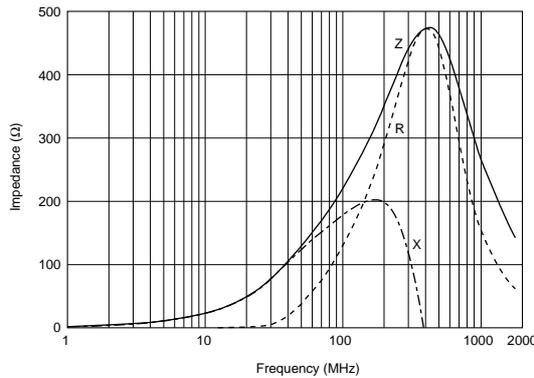
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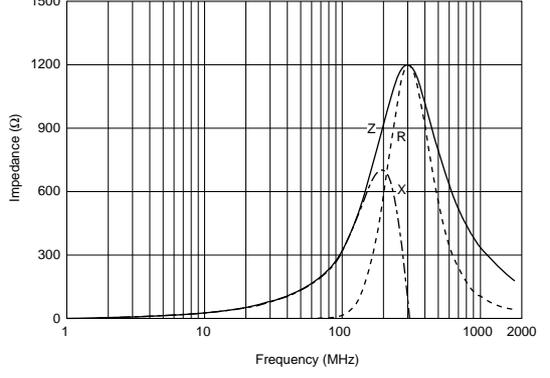
BLM18BB221SH1



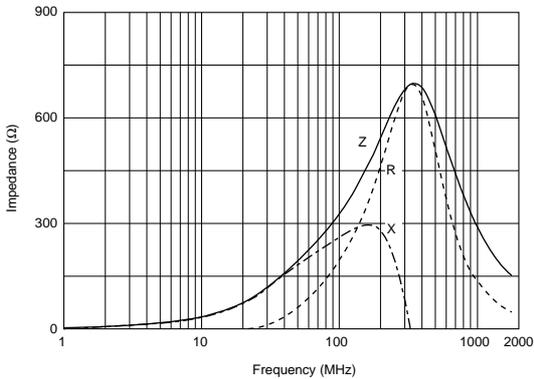
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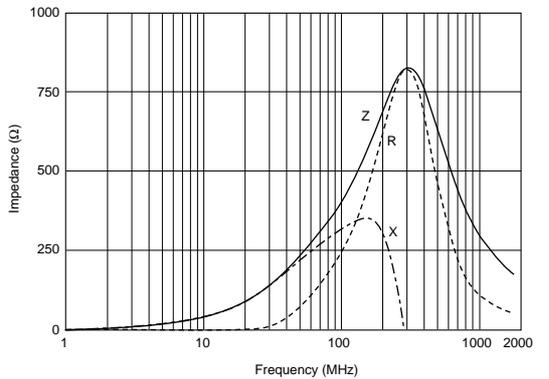
BLM18BB331SH1



BLM18BD331SH1



BLM18BD421SH1



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## Impedance - Frequency Characteristics

