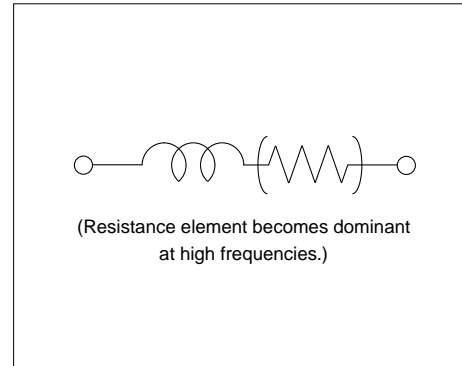


■ Features (BLM_P Series)

The chip ferrite bead BLM series comprises ferrite beads in the shape of a chip. This ferrite bead generates a high impedance which at high frequencies mainly consists of a resistance element. The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection to ground.

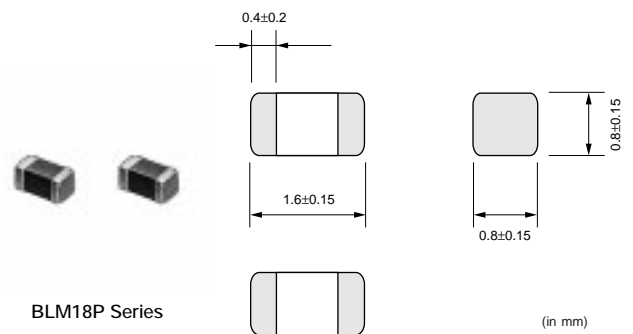
The nickel barrier structure of the external electrodes provides excellent solder heat resistance. The BLM_P series can be used in high current circuits due to its low DC resistance. It can match power lines to a maximum of 6A DC (BLM41P).

■ Equivalent Circuit



1

BLM18P Series (0603 Size)

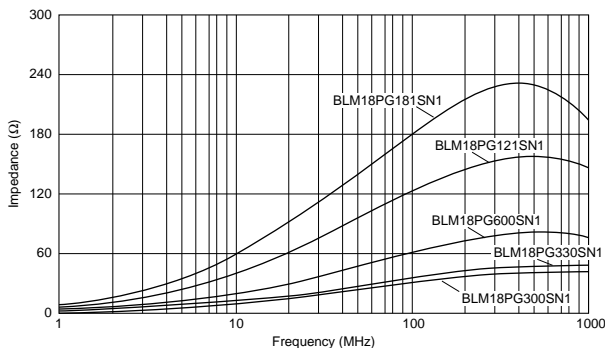


| Part Number | Impedance (at 100MHz, 20 degree C) (ohm) | Rated Current (mA) | DC Resistance (max.) (ohm) | Operating Temperature Range (°C) |
|---------------|--|--------------------|----------------------------|----------------------------------|
| BLM18PG300SN1 | 30 (Typ.) | 1000 | 0.05 | -55 to 125 |
| BLM18PG330SN1 | 33 ±25% | 3000 | 0.025 | -55 to 125 |
| BLM18PG600SN1 | 60 (Typ.) | 500 | 0.10 | -55 to 125 |
| BLM18PG121SN1 | 120 ±25% | 2000 | 0.05 | -55 to 125 |
| BLM18PG181SN1 | 180 ±25% | 1500 | 0.09 | -55 to 125 |

At rated current upper than 1500mA, derating is required.
Please refer P. 51, "Derating of Rated Current".

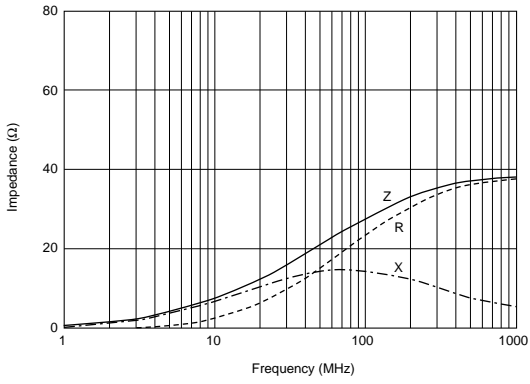
■ Impedance-Frequency (Typical)

BLM18P Series

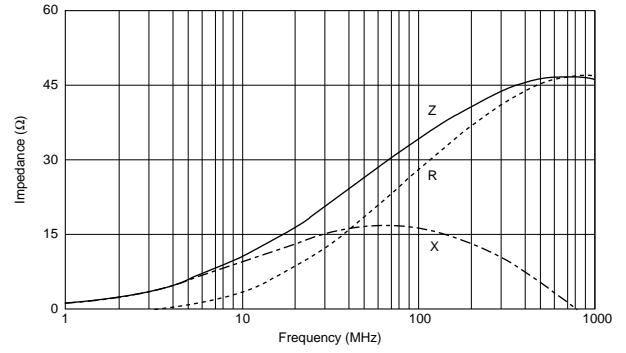


■ Impedance-Frequency Characteristics

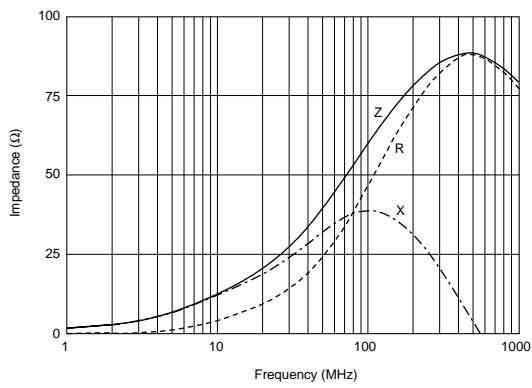
BLM18PG300SN1



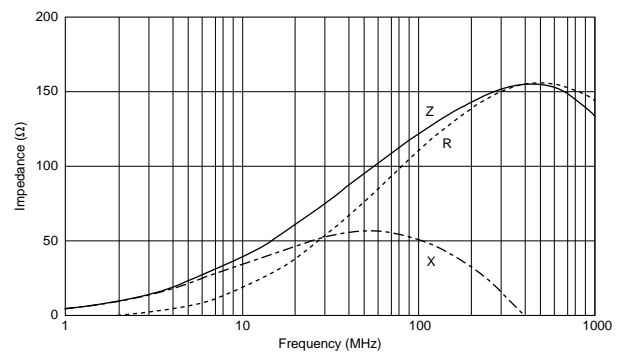
BLM18PG330SN1



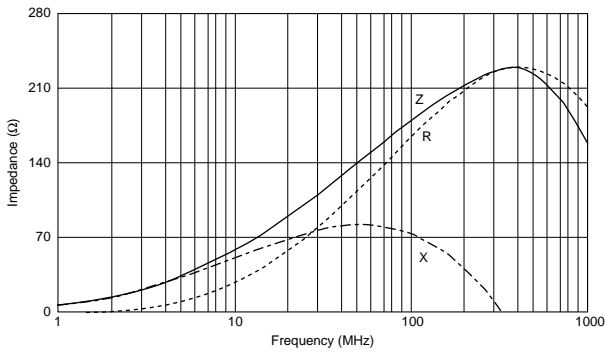
BLM18PG600SN1



BLM18PG121SN1

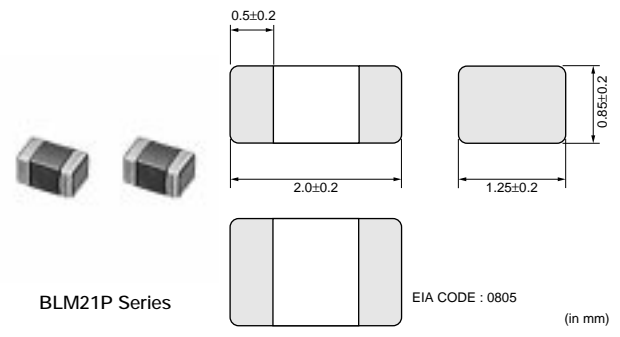


BLM18PG181SN1



1

BLM21P Series (0805 Size)

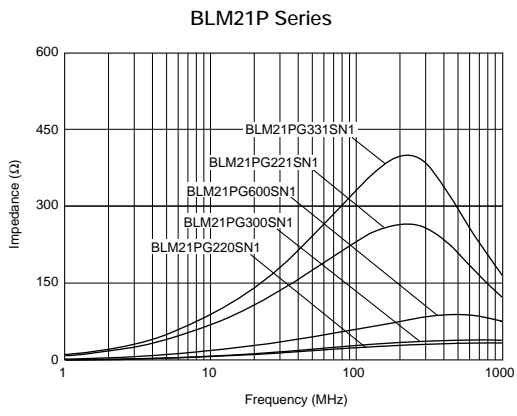


1

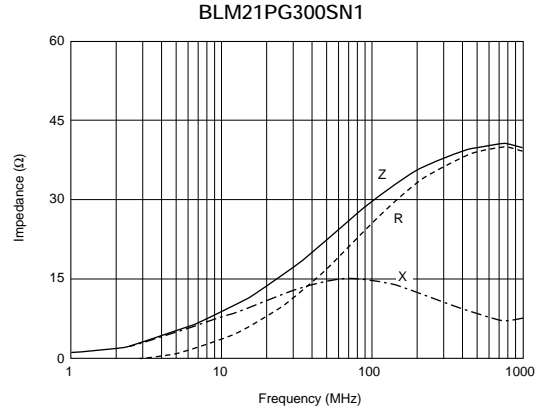
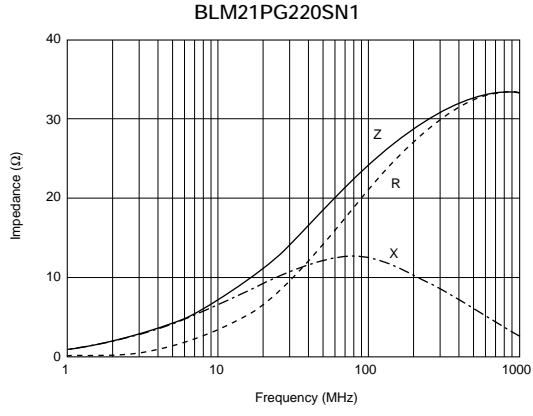
| Part Number | Impedance (at 100MHz, 20 degree C) (ohm) | Rated Current (mA) | DC Resistance (max.) (ohm) | Operating Temperature Range (°C) |
|----------------------|--|--------------------|----------------------------|----------------------------------|
| BLM21PG220SN1 | 22 ±25% | 6000 | 0.01 | -55 to 125 |
| BLM21PG300SN1 | 30 (Typ.) | 3000 | 0.015 | -55 to 125 |
| BLM21PG600SN1 | 60 ±25% | 3000 | 0.025 | -55 to 125 |
| BLM21PG221SN1 | 220 ±25% | 2000 | 0.050 | -55 to 125 |
| BLM21PG331SN1 | 330 ±25% | 1500 | 0.09 | -55 to 125 |

At rated current upper than 1500mA, derating is required.
Please refer P. 51, "Derating of Rated Current".

■ Impedance-Frequency (Typical)



■ Impedance-Frequency Characteristics

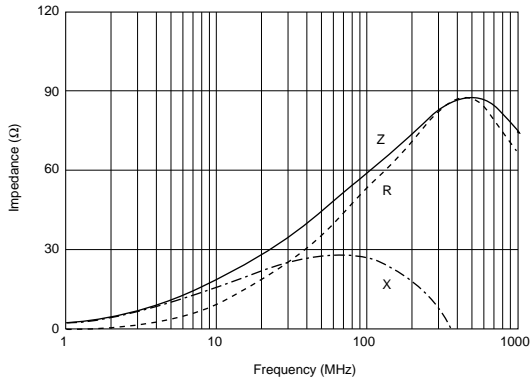


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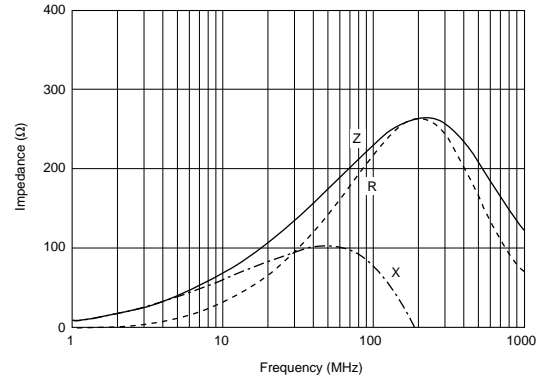
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Impedance-Frequency Characteristics

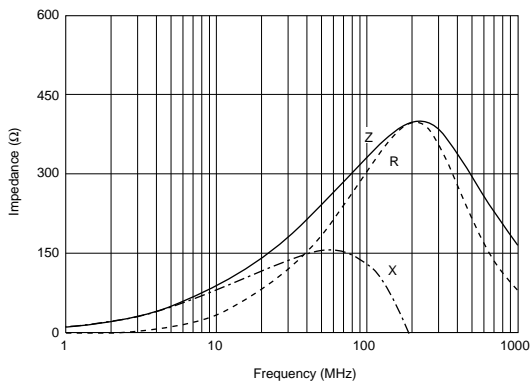
BLM21PG600SN1



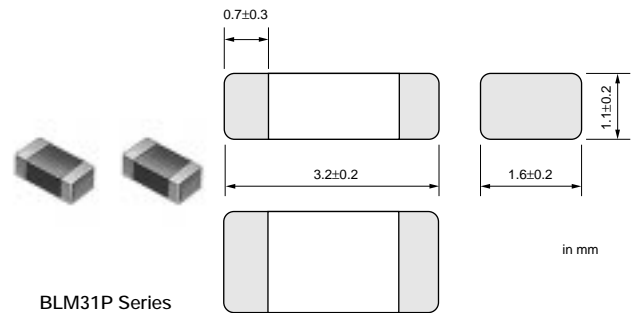
BLM21PG221SN1



BLM21PG331SN1



BLM31P Series (1206 Size)

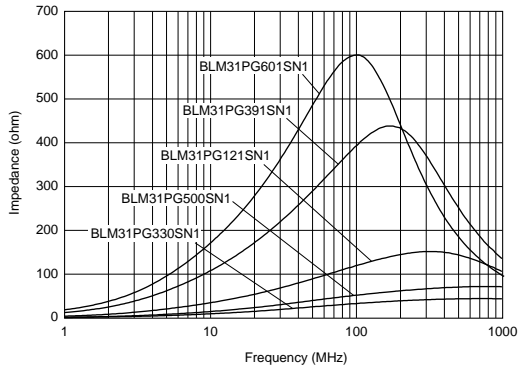


| Part Number | Impedance (at 100MHz, 20 degree C) (ohm) | Rated Current (mA) | DC Resistance (max.) (ohm) | Operating Temperature Range (°C) |
|---------------|--|-----------------------|-------------------------------|--|
| BLM31PG330SN1 | 33 ±25% | 6000 | 0.01 | -55 to 125 |
| BLM31PG500SN1 | 50 (Typ.) | 3000 | 0.025 | -55 to 125 |
| BLM31PG121SN1 | 120 ±25% | 3000 | 0.025 | -55 to 125 |
| BLM31PG391SN1 | 390 ±25% | 2000 | 0.05 | -55 to 125 |
| BLM31PG601SN1 | 600 ±25% | 1500 | 0.09 | -55 to 125 |

At rated current upper than 1500mA, derating is required.
Please refer P. 51, "Derating of Rated Current".

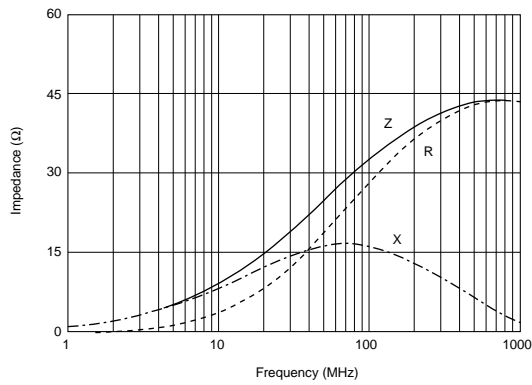
■ Impedance-Frequency (Typical)

BLM31P Series

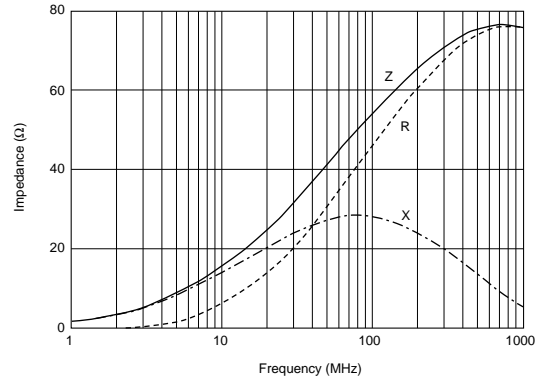


■ Impedance-Frequency Characteristics

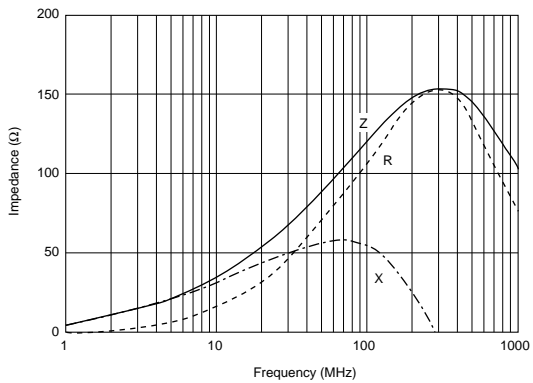
BLM31PG330SN1



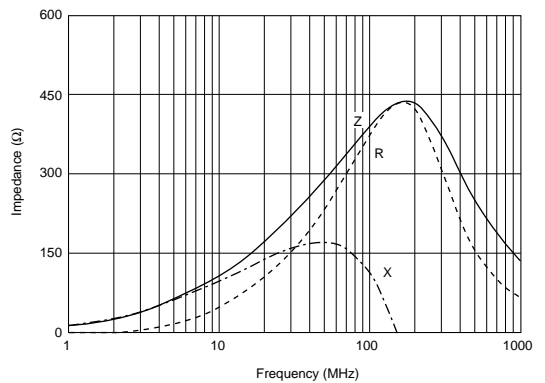
BLM31PG500SN1



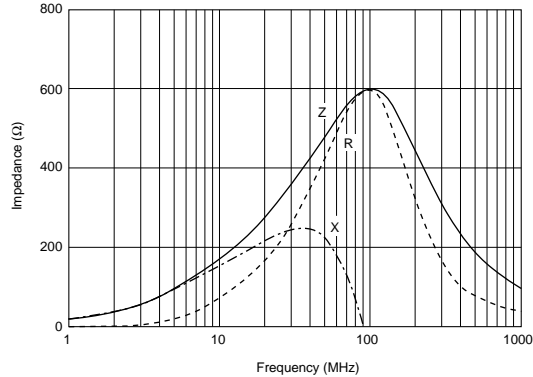
BLM31PG121SN1



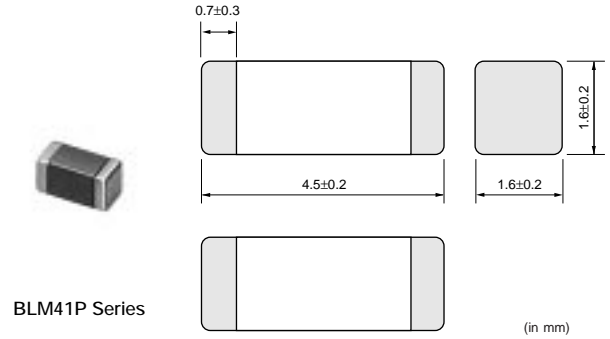
BLM31PG391SN1



BLM31PG601SN1



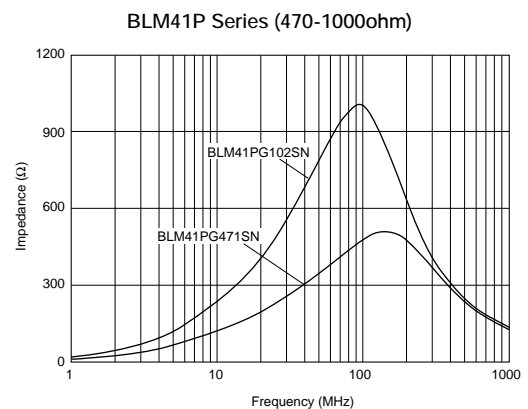
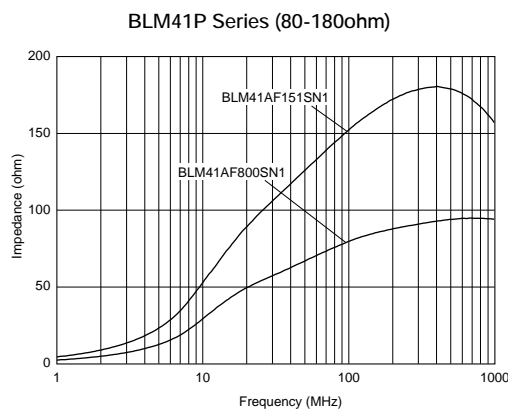
BLM41P Series (1806 Size)



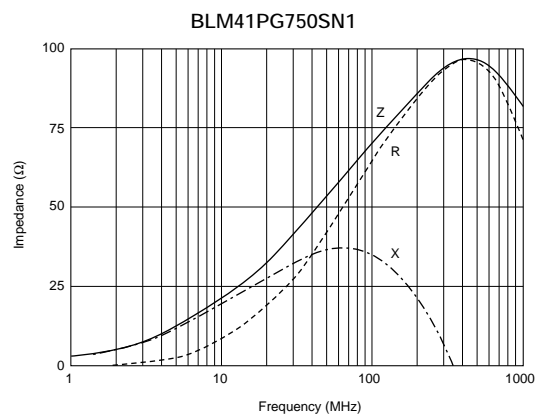
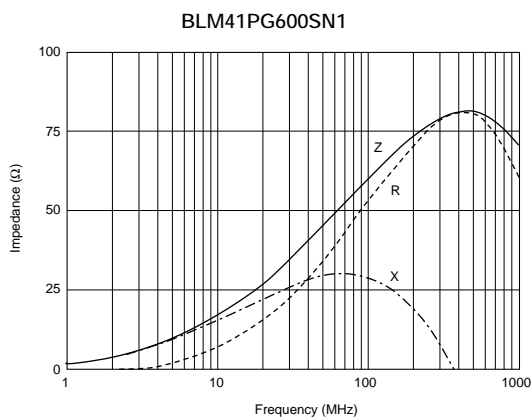
| Part Number | Impedance (at 100MHz, 20 degree C) (ohm) | Rated Current (mA) | DC Resistance (max.) (ohm) | Operating Temperature Range (°C) |
|---------------|--|--------------------|----------------------------|----------------------------------|
| BLM41PG600SN1 | 60 (Typ.) | 6000 | 0.01 | -55 to 125 |
| BLM41PG750SN1 | 75 (Typ.) | 3000 | 0.025 | -55 to 125 |
| BLM41PF800SN1 | 80 (Typ.) | 1000 | 0.10 | -55 to 125 |
| BLM41PG181SN1 | 180 ±25% | 3000 | 0.025 | -55 to 125 |
| BLM41PG471SN1 | 470 ±25% | 2000 | 0.05 | -55 to 125 |
| BLM41PG102SN1 | 1000 ±25% | 1500 | 0.09 | -55 to 125 |

At rated current upper than 1500mA, derating is required.
Please refer P. 51, "Derating of Rated Current".

■ Impedance-Frequency (Typical)



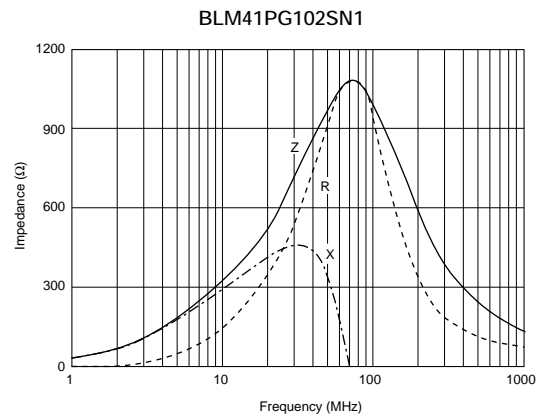
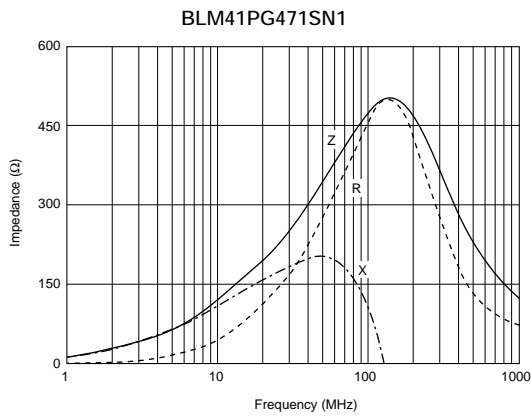
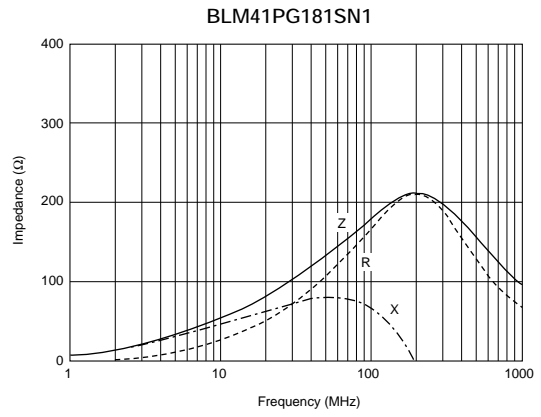
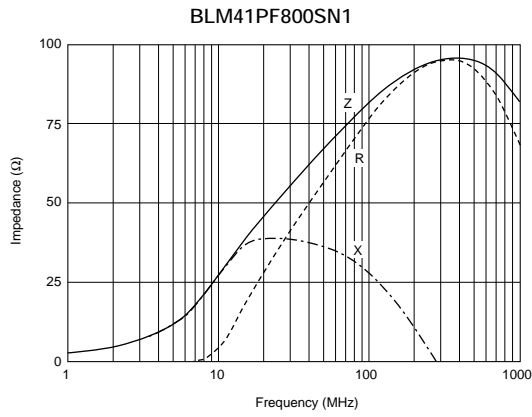
■ Impedance-Frequency Characteristics



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Impedance-Frequency Characteristics



Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for chip Ferrite Beads for which rated current is 1.5A or over. Please apply the derating curve shown below according to the operating temperature.

