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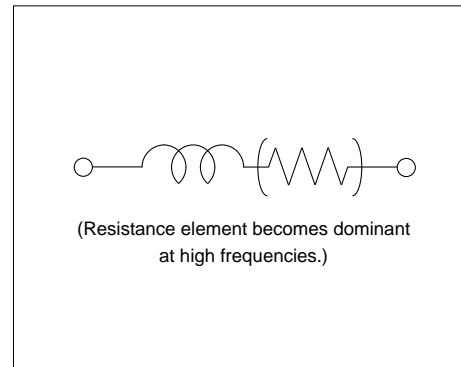
### ■ Features (BLM\_P Series)

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.

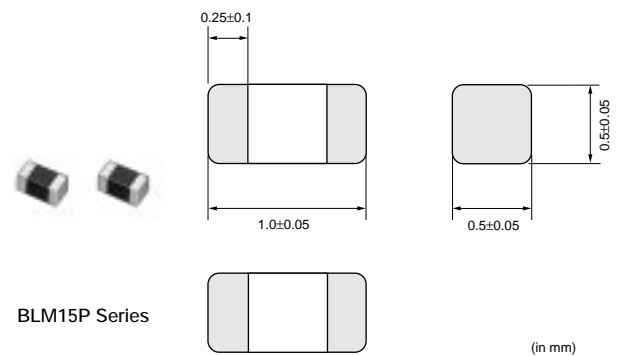
The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection to ground.

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.

### ■ Equivalent Circuit

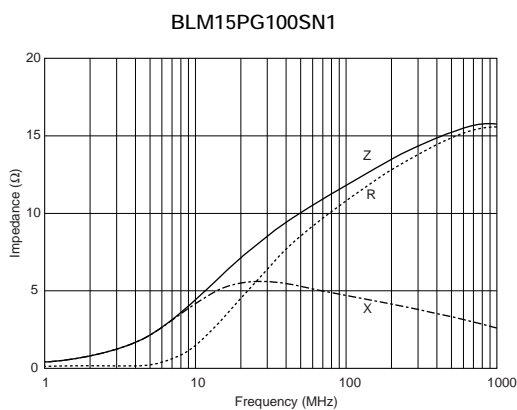


### BLM15P Series (0402 Size)

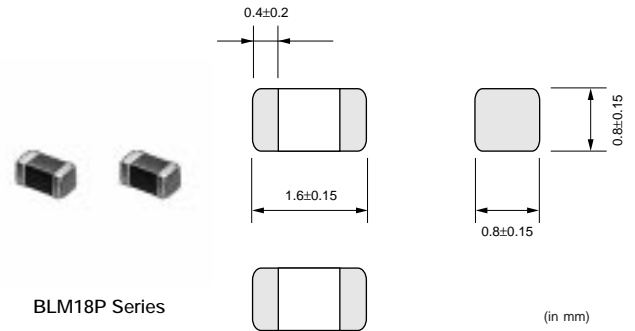


Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM15PG100SN1	10 (Typ.)	1000	0.05	-55 to +125

### ■ Impedance-Frequency Characteristics



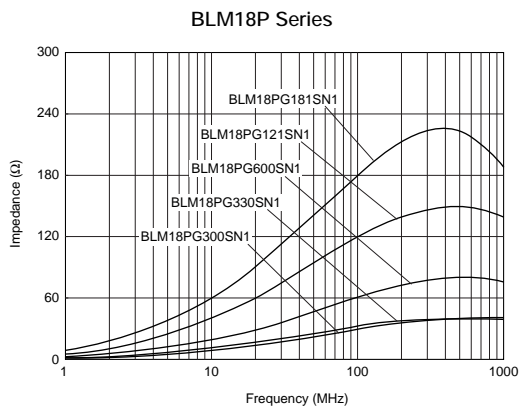
## BLM18P Series (0603 Size)



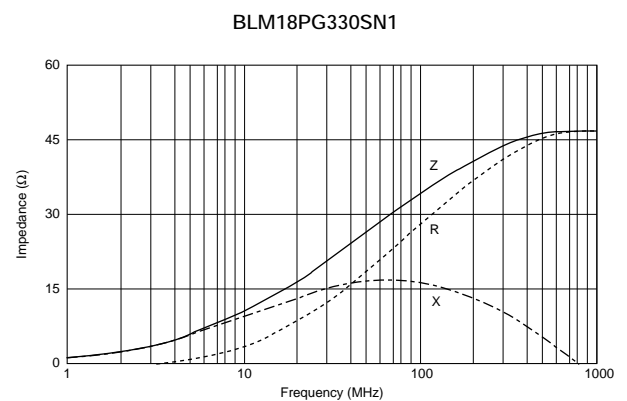
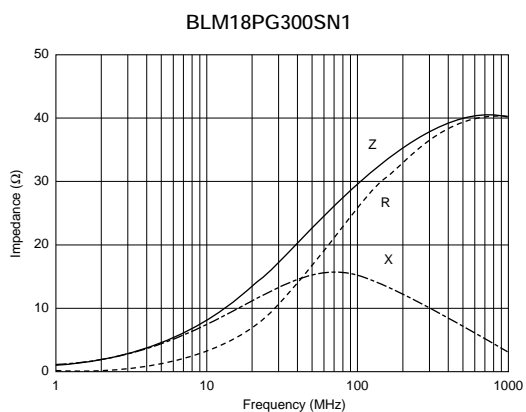
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM18PG300SN1</b>	30 (Typ.)	1000	0.05	-55 to +125
<b>BLM18PG330SN1</b>	33 ±25%	3000	0.025	-55 to +125
<b>BLM18PG600SN1</b>	60 (Typ.)	500	0.10	-55 to +125
<b>BLM18PG121SN1</b>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

At rated current higher than 1500mA, derating is required.  
Please refer p. 55, "Derating of Rated Current".

### ■ Impedance-Frequency (Typical)



### ■ Impedance-Frequency Characteristics

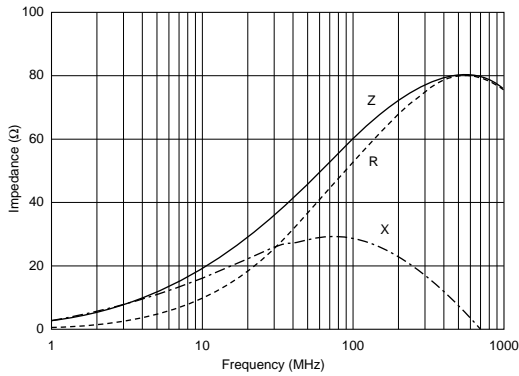


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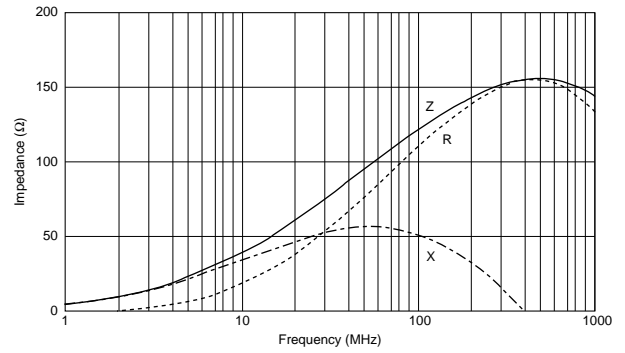
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## Impedance-Frequency Characteristics

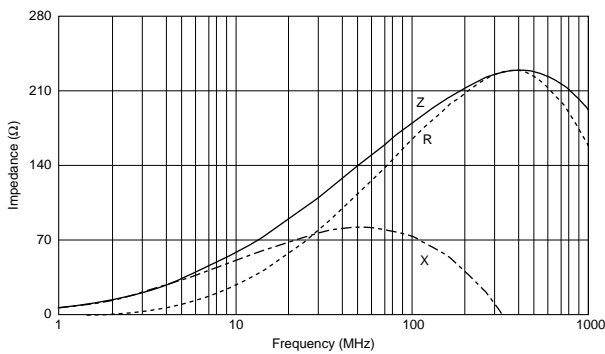
BLM18PG600SN1



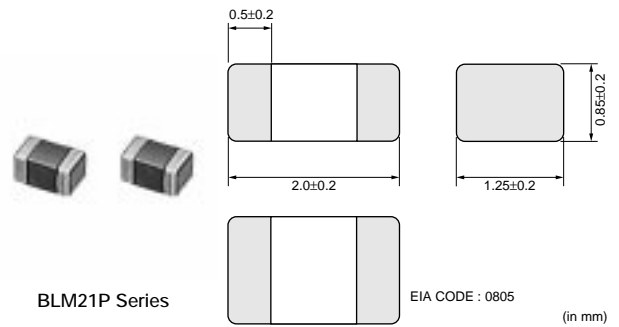
BLM18PG121SN1



BLM18PG181SN1



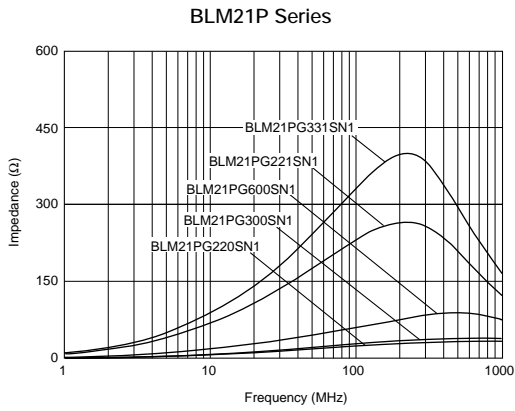
## BLM21P Series (0805 Size)



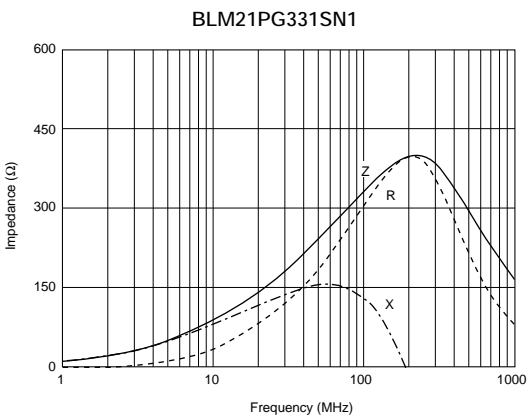
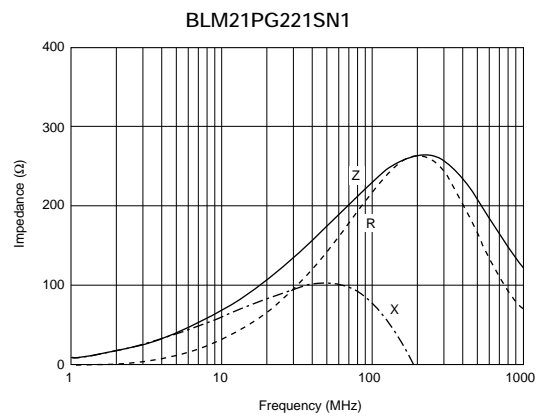
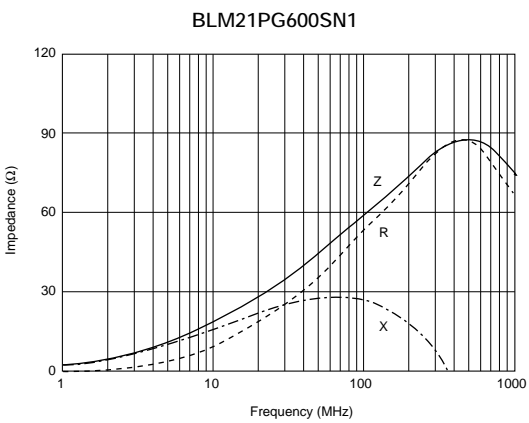
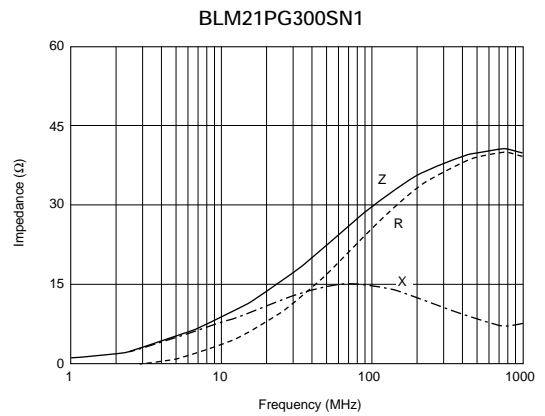
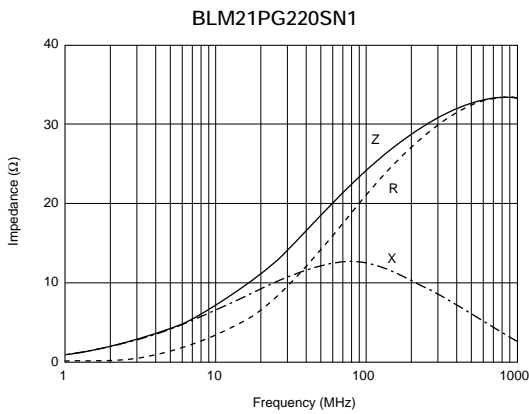
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21PG220SN1	22 ±25%	6000	0.01	-55 to +125
BLM21PG300SN1	30 (Typ.)	3000	0.015	-55 to +125
BLM21PG600SN1	60 ±25%	3000	0.025	-55 to +125
BLM21PG221SN1	220 ±25%	2000	0.050	-55 to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

At rated current higher than 1500mA, derating is required.  
Please refer p. 55, "Derating of Rated Current".

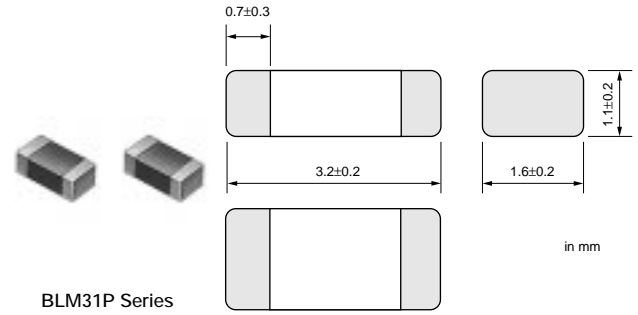
## ■ Impedance-Frequency (Typical)



## ■ Impedance-Frequency Characteristics



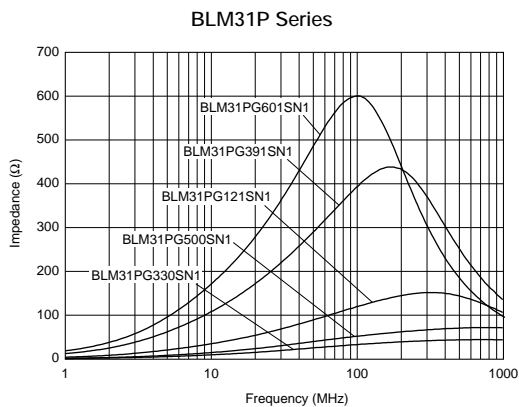
## BLM31P Series (1206 Size)



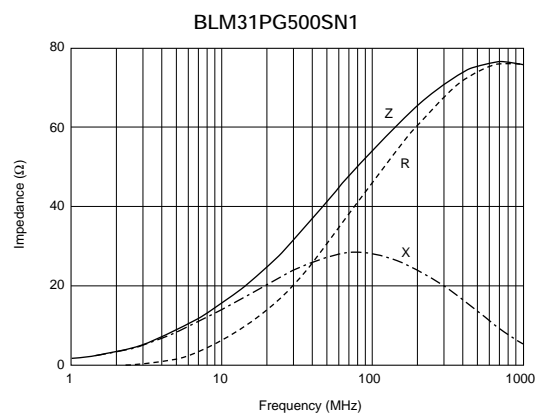
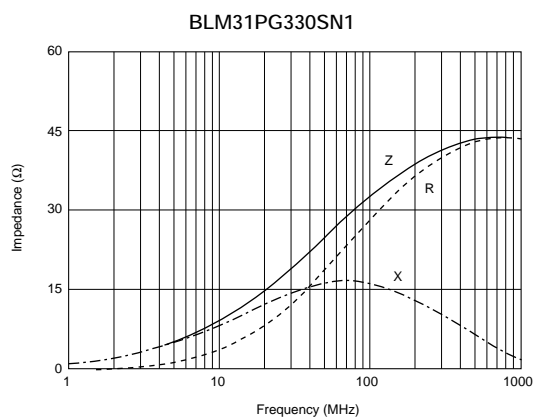
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM31PG330SN1</b>	33 ±25%	6000	0.01	-55 to +125
<b>BLM31PG500SN1</b>	50 (Typ.)	3000	0.025	-55 to +125
<b>BLM31PG121SN1</b>	120 ±25%	3000	0.025	-55 to +125
<b>BLM31PG391SN1</b>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

At rated current higher than 1500mA, derating is required.  
Please refer p. 55, "Derating of Rated Current".

### ■ Impedance-Frequency (Typical)



### ■ Impedance-Frequency Characteristics

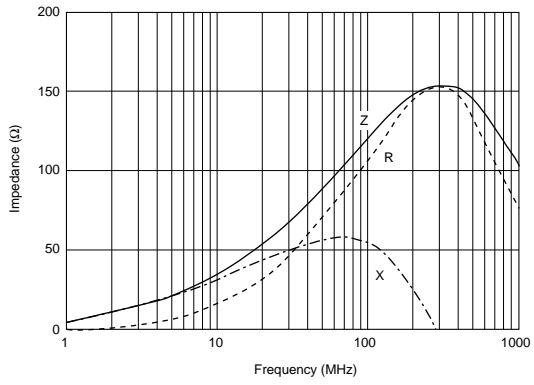


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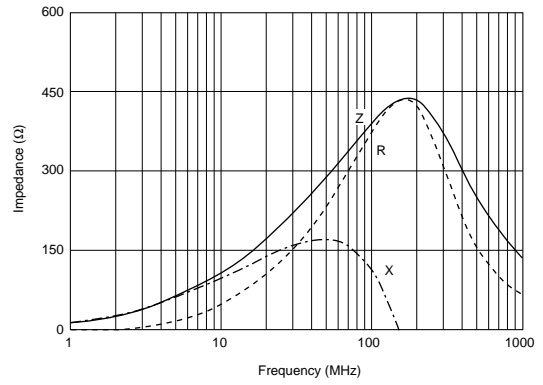
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**Impedance-Frequency Characteristics**

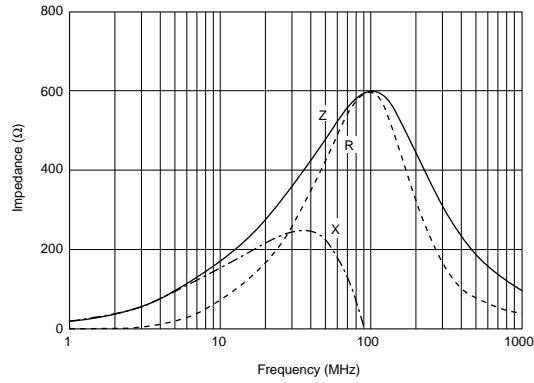
**BLM31PG121SN1**



**BLM31PG391SN1**

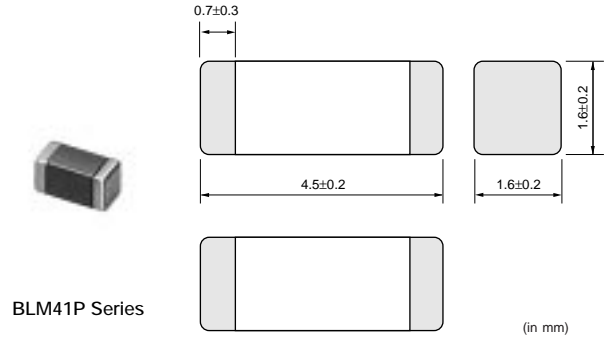


**BLM31PG601SN1**



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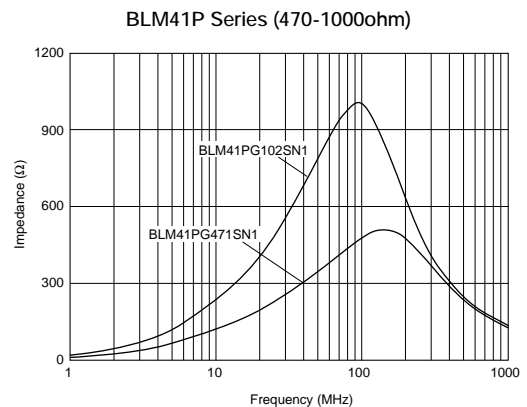
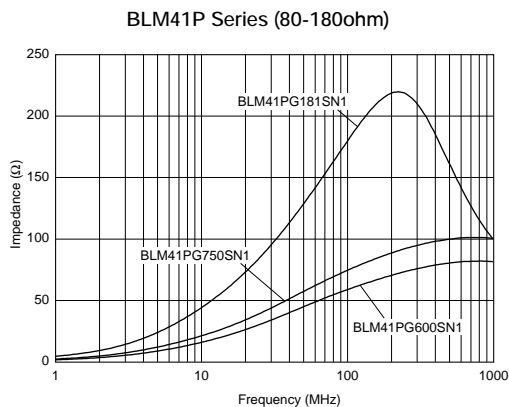
## BLM41P Series (1806 Size)



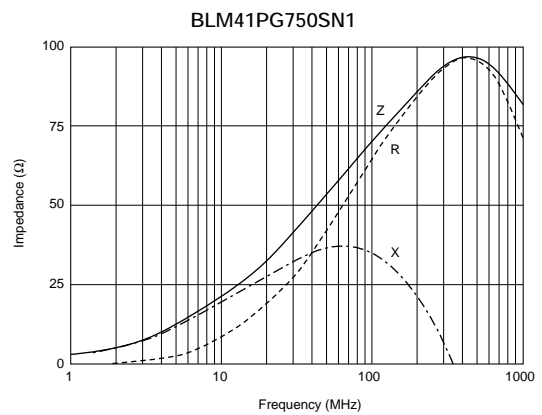
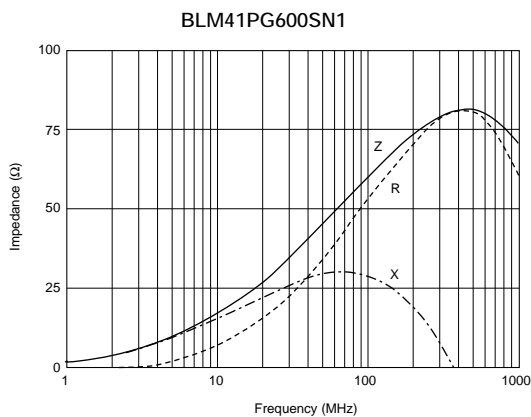
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM41PG600SN1</b>	60 (Typ.)	6000	0.01	-55 to +125
<b>BLM41PG750SN1</b>	75 (Typ.)	3000	0.025	-55 to +125
<b>BLM41PG181SN1</b>	180 ±25%	3000	0.025	-55 to +125
<b>BLM41PG471SN1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

At rated current higher than 1500mA, derating is required.  
Please refer p. 55, "Derating of Rated Current".

### ■ Impedance-Frequency (Typical)



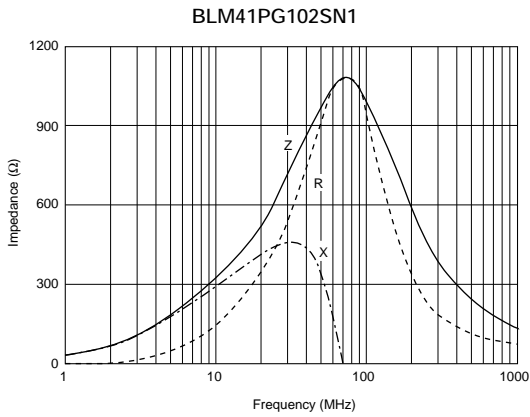
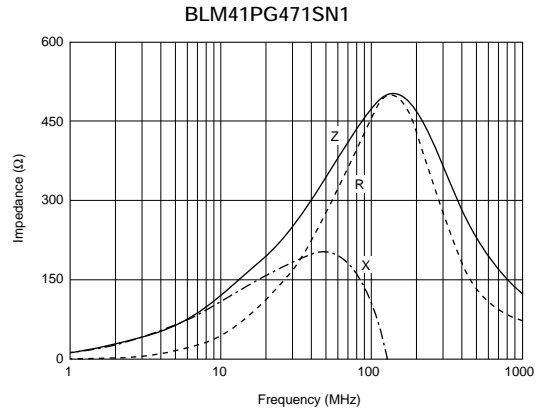
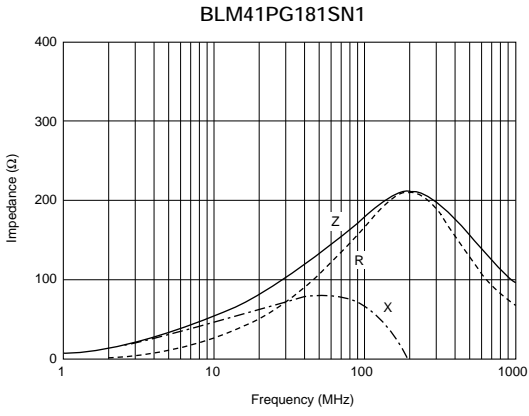
### ■ Impedance-Frequency Characteristics



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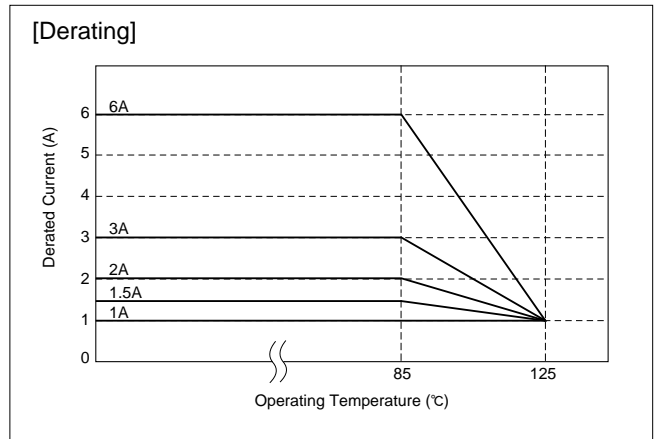
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### Impedance-Frequency Characteristics



### Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for chip Ferrite Beads for which rated current is 1500mA or over. Please apply the derating curve shown in chart according to the operating temperature.



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