

# On-Board Type (DC) EMI Suppression Filters (EMIFIL®)

**muRata**

## Chip Ferrite Beads BLM03/BLM15/BLM18/BLM21/BLM31/BLM41 Series

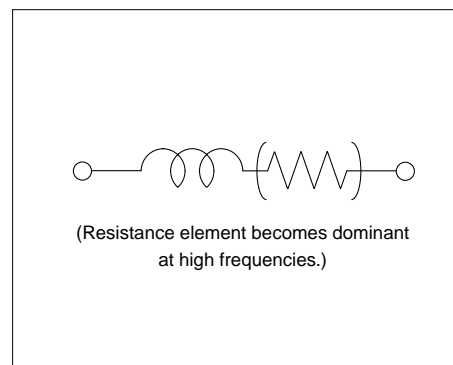
### ■ Features (BLM\_A Series)

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 frequency 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.

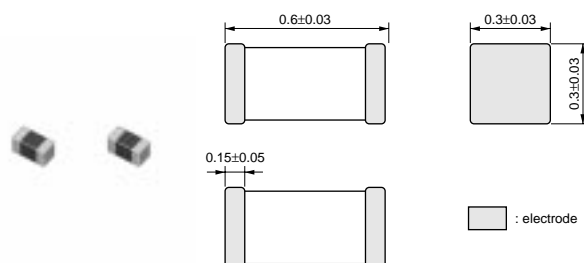
The nickel barrier structure of the external electrodes provides excellent solder heat resistance. BLM\_A series generates an impedance from the relatively low frequencies. Therefore BLM\_A series is effective in noise suppression in a wide frequency range (30MHz - several hundred MHz).

The small size of BLM03 series (0.6x0.3mm) is suitable for noise suppression in small equipment such as PA modules for cellular phones.

### ■ Equivalent Circuit



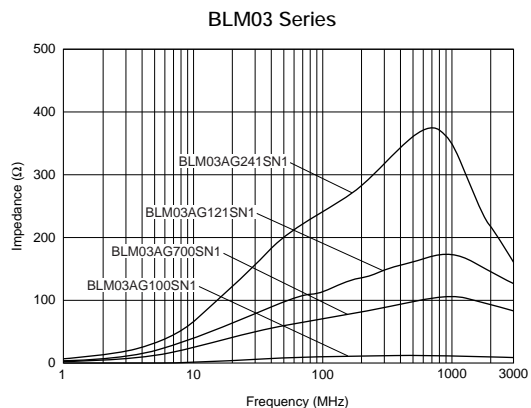
### BLM03A Series (0201 Size)



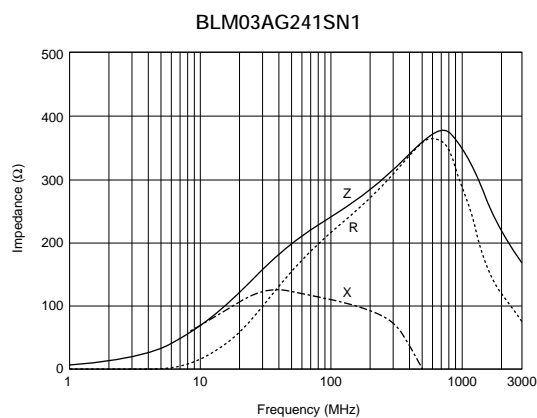
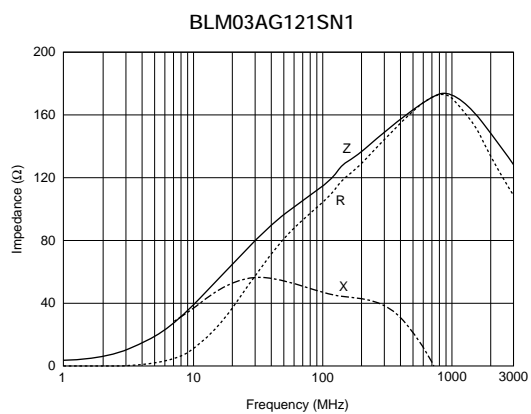
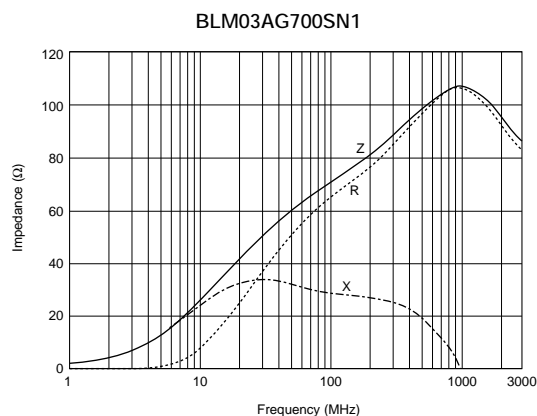
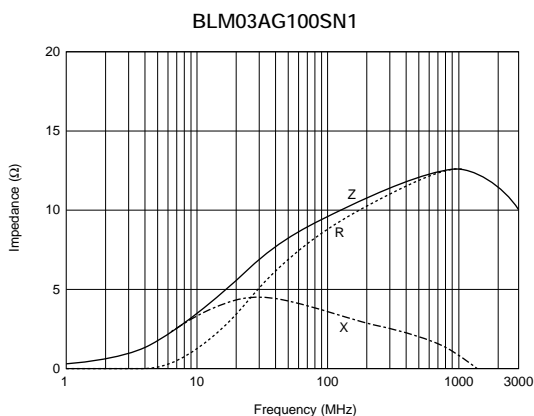
(in mm)

Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM03AG100SN1	10 (Typ.)	500	0.1	-55 to +125
BLM03AG700SN1	70 (Typ.)	200	0.5	-55 to +125
BLM03AG121SN1	120 ±25%	200	0.8	-55 to +125
BLM03AG241SN1	240 ±25%	100	1.0	-55 to +125

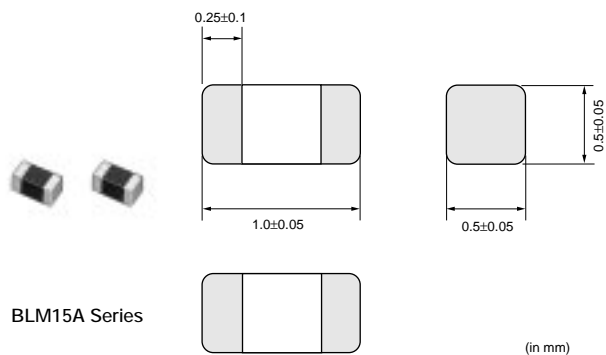
## ■ Impedance-Frequency (Typical)



## ■ Impedance-Frequency Characteristics



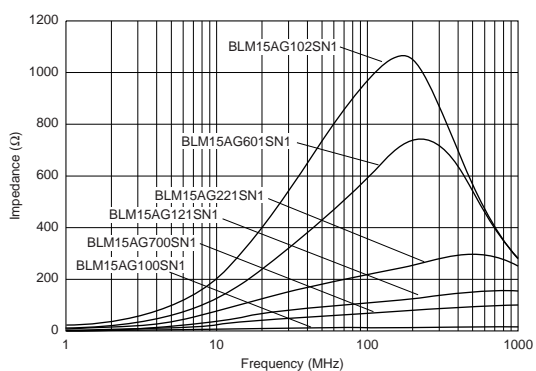
## BLM15A Series (0402 Size)



Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM15AG100SN1</b>	10 (Typ.)	1000	0.05	-55 to +125
<b>BLM15AG700SN1</b>	70 (Typ.)	500	0.15	-55 to +125
<b>BLM15AG121SN1</b>	120 ±25%	500	0.25	-55 to +125
<b>BLM15AG221SN1</b>	220 ±25%	300	0.35	-55 to +125
<b>BLM15AG601SN1</b>	600 ±25%	300	0.6	-55 to +125
<b>BLM15AG102SN1</b>	1000 ±25%	200	1.0	-55 to +125

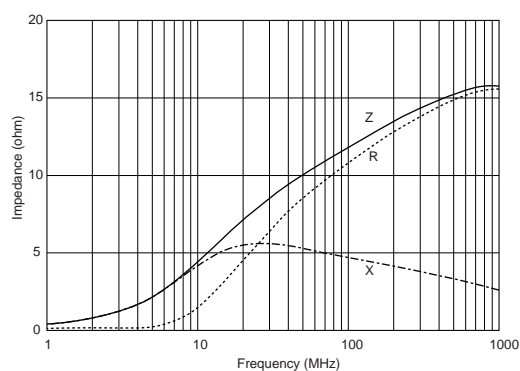
## ■ Impedance-Frequency (Typical)

BLM15A Series

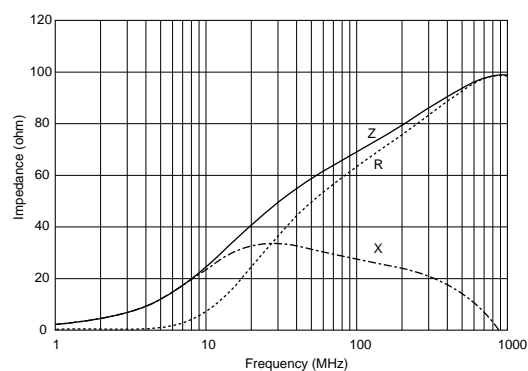


## ■ Impedance-Frequency Characteristics

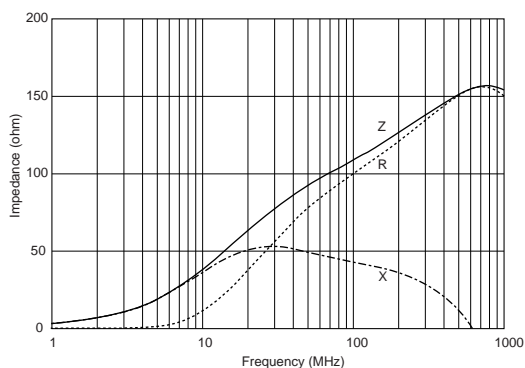
BLM15AG100SN1



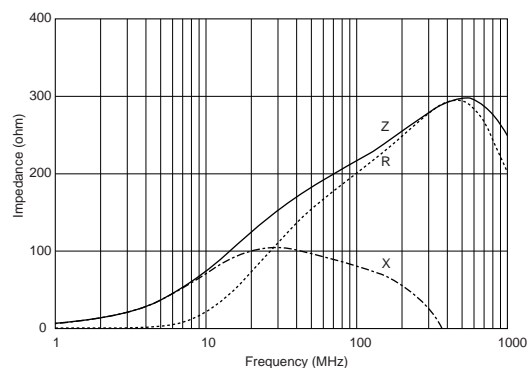
BLM15AG700SN1



BLM15AG121SN1



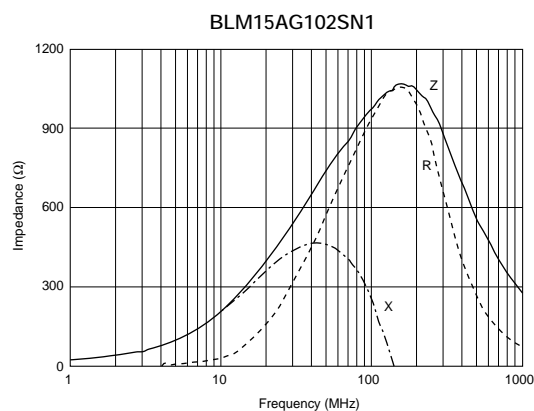
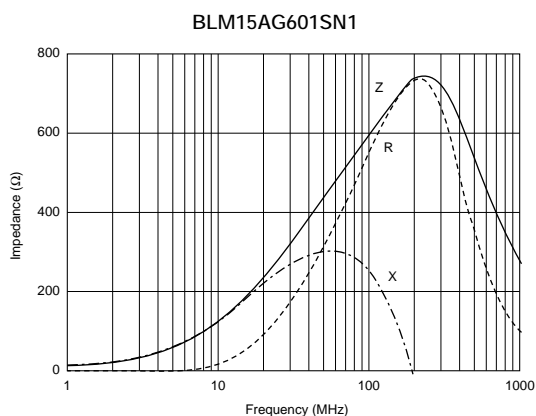
BLM15AG221SN1



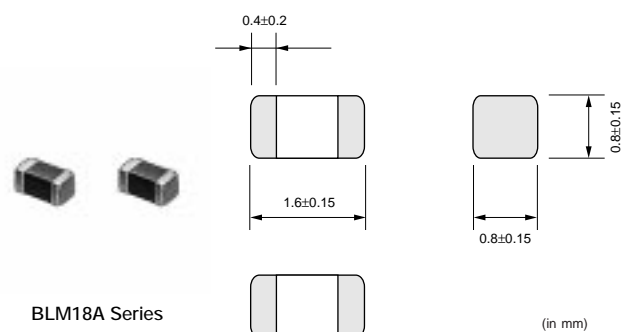
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## ■ Impedance-Frequency Characteristics

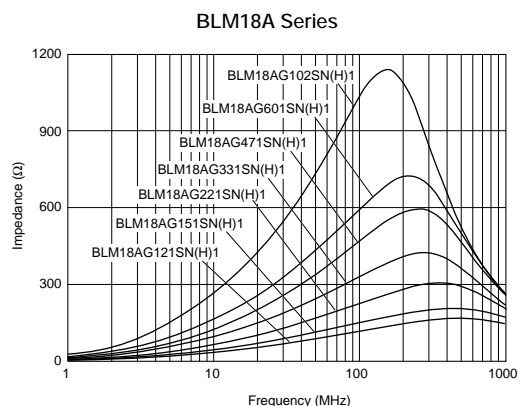


## BLM18A Series (0603 Size)



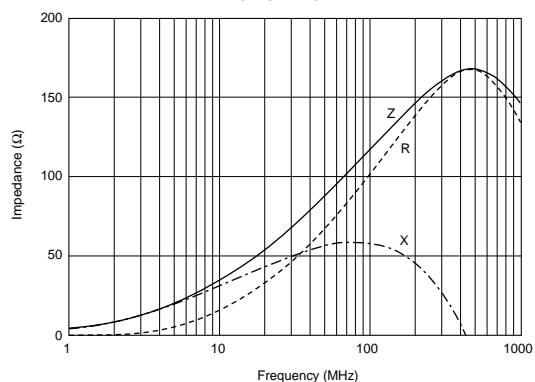
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM18AG121SN1</b>	120 ±25%	200	0.20	-55 to +125
<b>BLM18AG151SN1</b>	150 ±25%	200	0.25	-55 to +125
<b>BLM18AG221SN1</b>	220 ±25%	200	0.30	-55 to +125
<b>BLM18AG331SN1</b>	330 ±25%	200	0.45	-55 to +125
<b>BLM18AG471SN1</b>	470 ±25%	200	0.50	-55 to +125
<b>BLM18AG601SN1</b>	600 ±25%	200	0.50	-55 to +125
<b>BLM18AG102SN1</b>	1000 ±25%	100	0.70	-55 to +125

## ■ Impedance-Frequency (Typical)

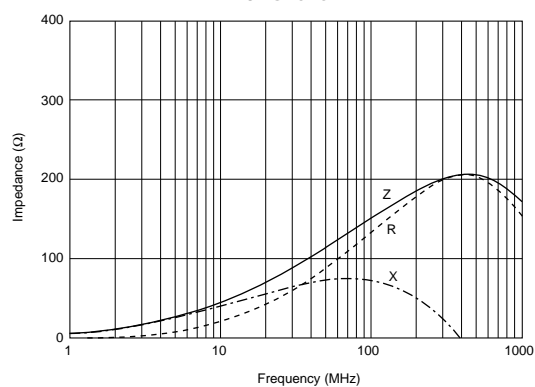


## ■ Impedance-Frequency Characteristics

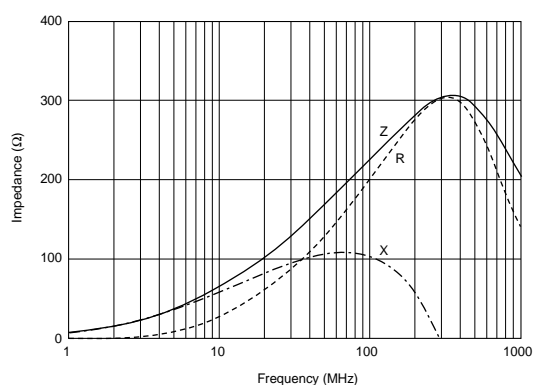
BLM18AG121SN1



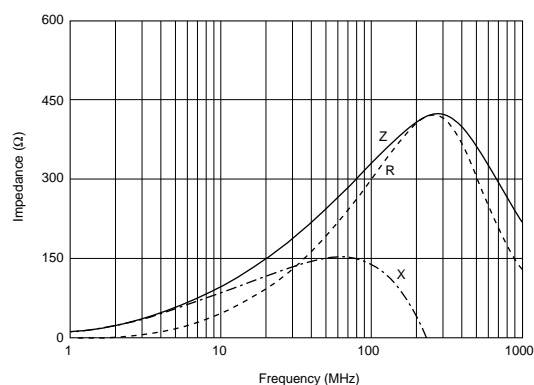
BLM18AG151SN1



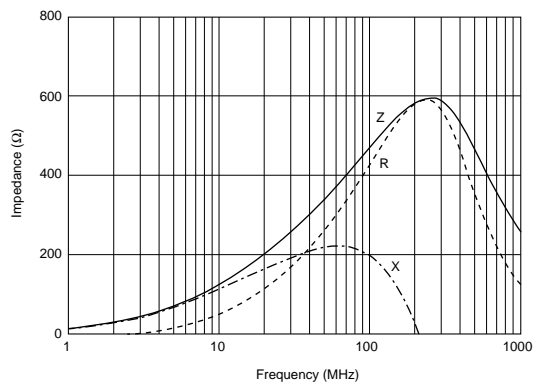
BLM18AG221SN1



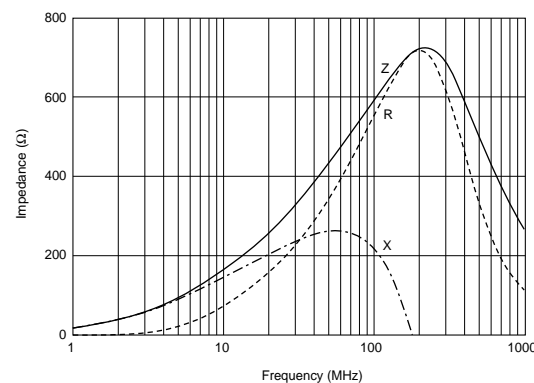
BLM18AG331SN1



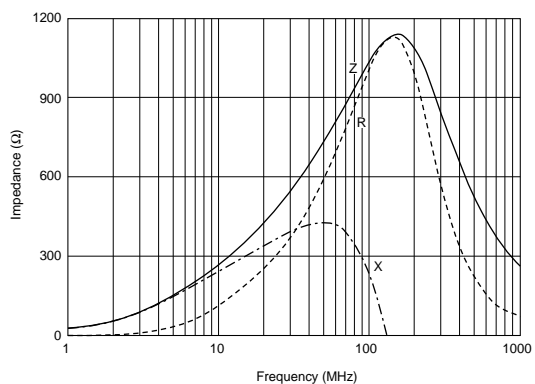
BLM18AG471SN1



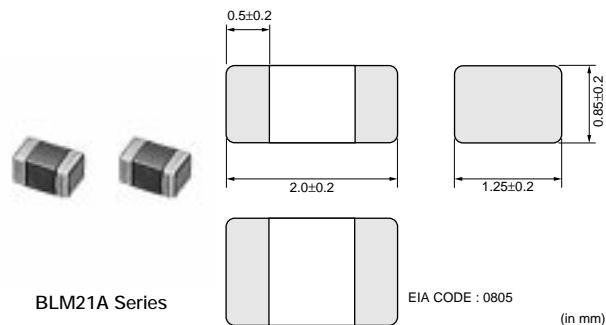
BLM18AG601SN1



BLM18AG102SN1

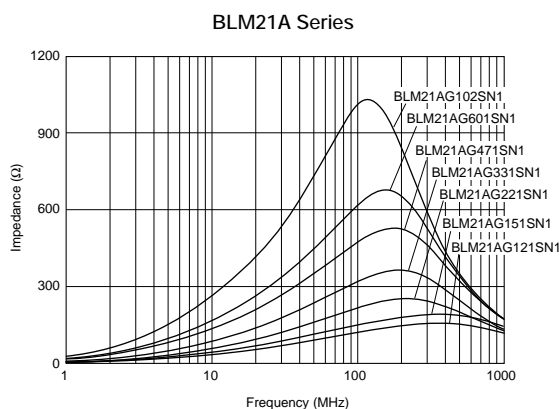


## BLM21A Series (0805 Size)

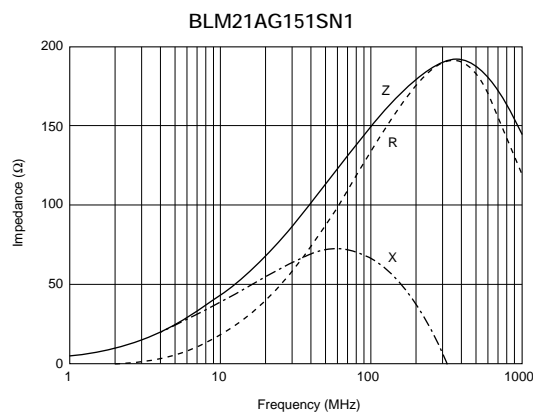
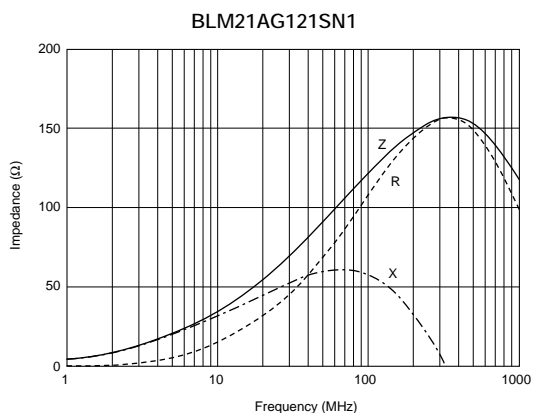


Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21AG121SN1	120 ±25%	200	0.15	-55 to +125
BLM21AG151SN1	150 ±25%	200	0.15	-55 to +125
BLM21AG221SN1	220 ±25%	200	0.20	-55 to +125
BLM21AG331SN1	330 ±25%	200	0.25	-55 to +125
BLM21AG471SN1	470 ±25%	200	0.25	-55 to +125
BLM21AG601SN1	600 ±25%	200	0.30	-55 to +125
BLM21AG102SN1	1000 ±25%	200	0.45	-55 to +125

### ■ Impedance-Frequency (Typical)



### ■ Impedance-Frequency Characteristics

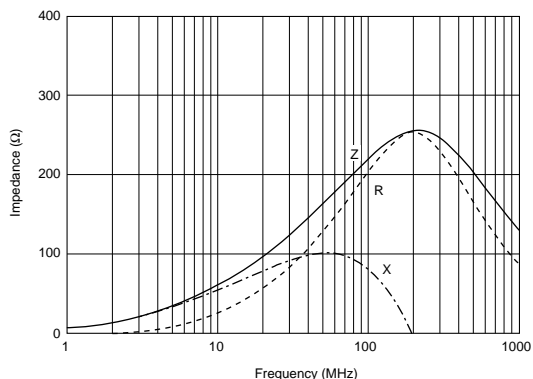


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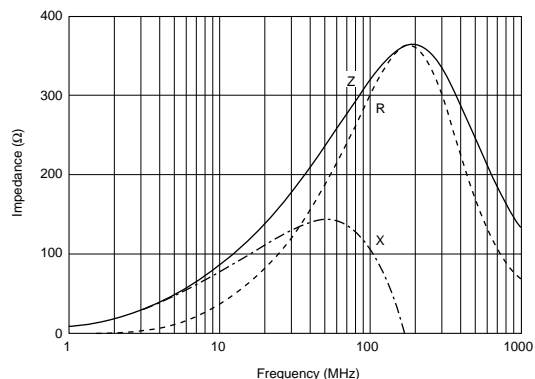
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## ■ Impedance-Frequency Characteristics

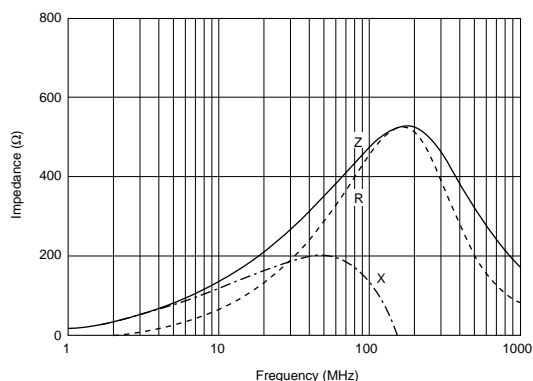
BLM21AG221SN1



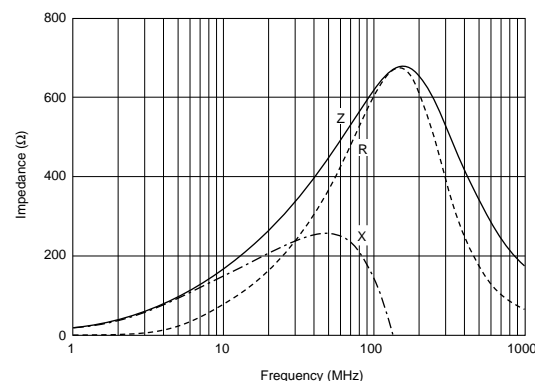
BLM21AG331SN1



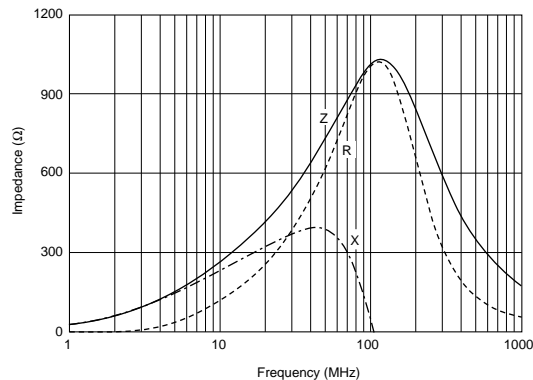
BLM21AG471SN1



BLM21AG601SN1



BLM21AG102SN1



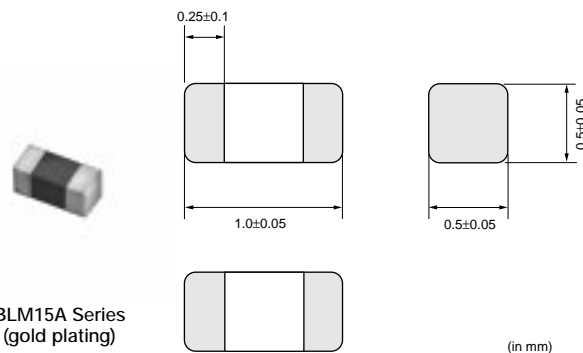
## BLM15A Series Gold Plating (0402 Size)

### ■ Features

1. Au plating for wire bonding mounting
2. BLM\_A series generates an impedance from the relatively low frequencies. Therefore BLM\_A series is effective in noise suppression in a wide frequency range (30MHz - several hundred MHz).

### ■ Applications

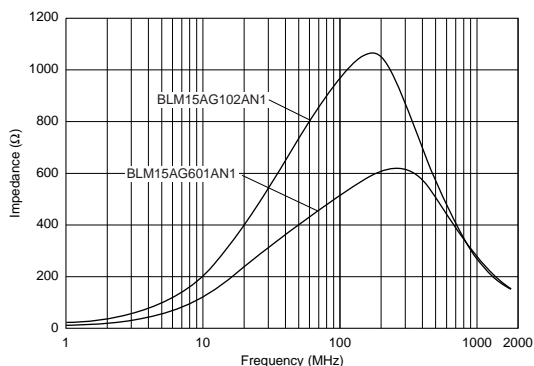
1. Optical transceiver modules
2. Optical pickup modules



Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM15AG601AN1</b>	600 ±25%	300	0.6	-55 to +125
<b>BLM15AG102AN1</b>	1000 ±25%	200	1.0	-55 to +125

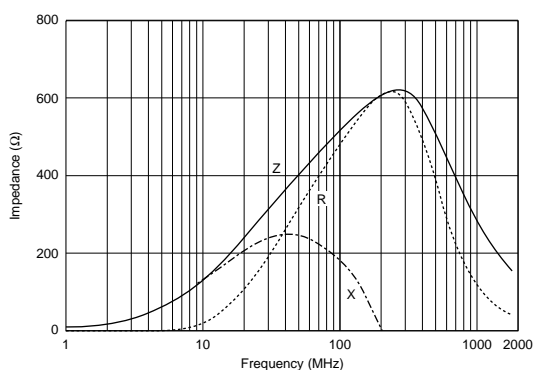
### ■ Impedance-Frequency (Typical)

BLM15A Series (gold plating)

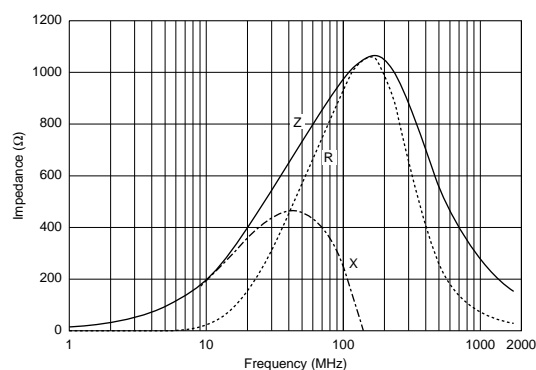


### ■ Impedance-Frequency Characteristics

BLM15AG601AN1



BLM15AG102AN1



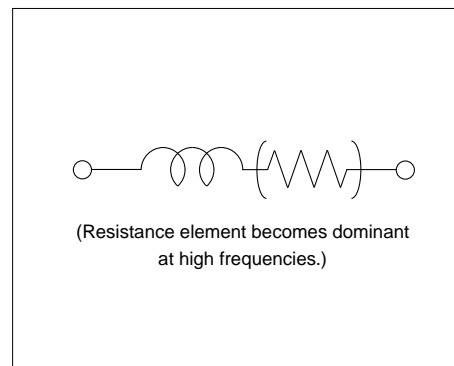


## ■ Features (BLM\_B Series)

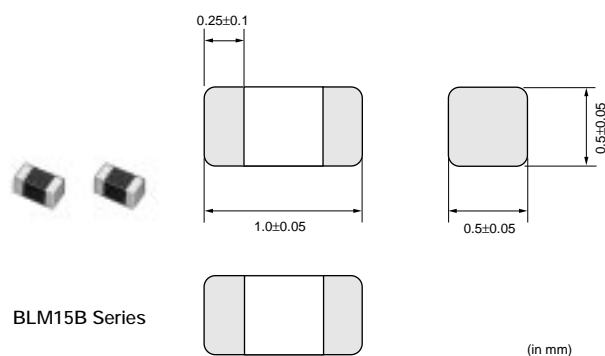
The chip ferrite bead BLM series comprises ferrite beads in the shape of a chip. This ferrite bead generates a high impedance which at high frequencies mainly consists of a resistance element. The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection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

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

## ■ Equivalent Circuit



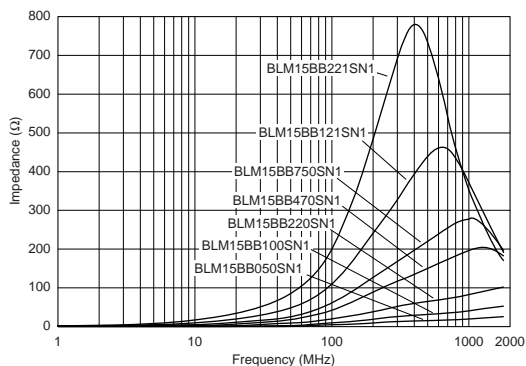
## BLM15B Series (0402 Size)



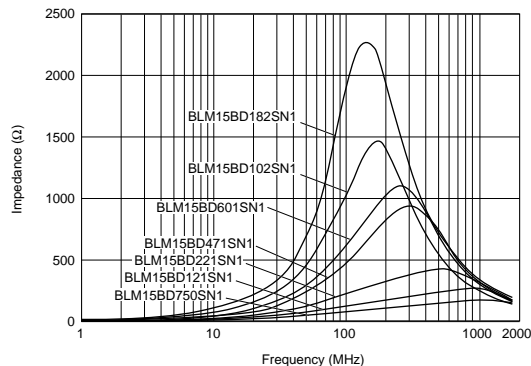
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM15BB050SN1	5 ±25%	500	0.08	-55 to +125
BLM15BB100SN1	10 ±25%	300	0.10	-55 to +125
BLM15BB220SN1	22 ±25%	300	0.20	-55 to +125
BLM15BB470SN1	47 ±25%	300	0.35	-55 to +125
BLM15BB750SN1	75 ±25%	300	0.40	-55 to +125
BLM15BD750SN1	75 ±25%	300	0.20	-55 to +125
BLM15BB121SN1	120 ±25%	300	0.55	-55 to +125
BLM15BD121SN1	120 ±25%	300	0.30	-55 to +125
BLM15BB221SN1	220 ±25%	200	0.80	-55 to +125
BLM15BD221SN1	220 ±25%	300	0.40	-55 to +125
BLM15BD471SN1	470 ±25%	200	0.60	-55 to +125
BLM15BD601SN1	600 ±25%	200	0.65	-55 to +125
BLM15BD102SN1	1000 ±25%	200	0.90	-55 to +125
BLM15BD182SN1	1800 ±25%	100	1.40	-55 to +125

## ■ Impedance-Frequency (Typical)

BLM15BB Series

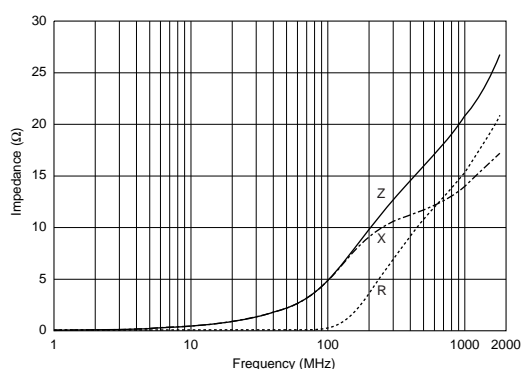


BLM15BD Series

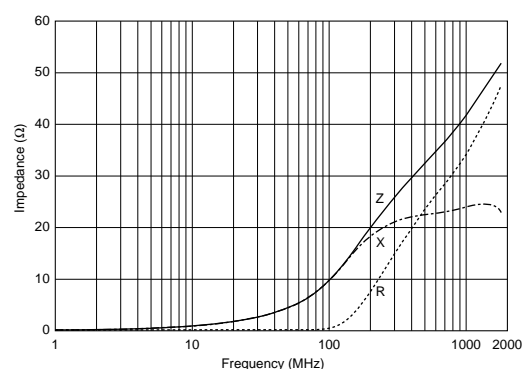


## ■ Impedance-Frequency Characteristics

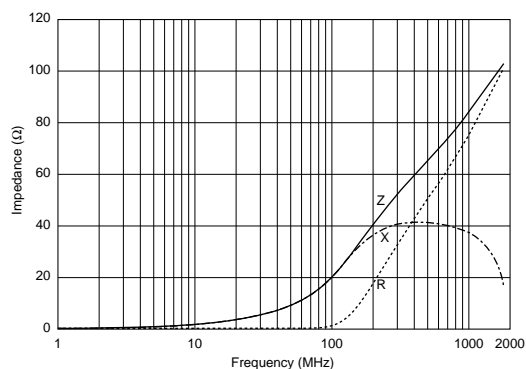
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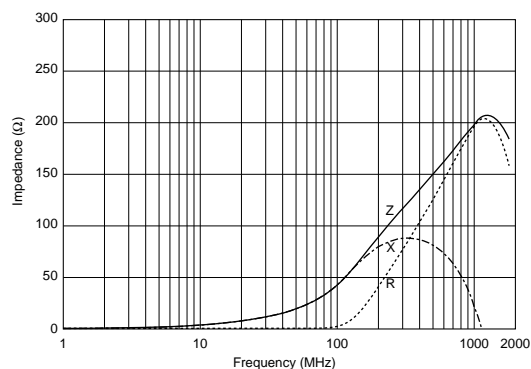
BLM15BB100SN1



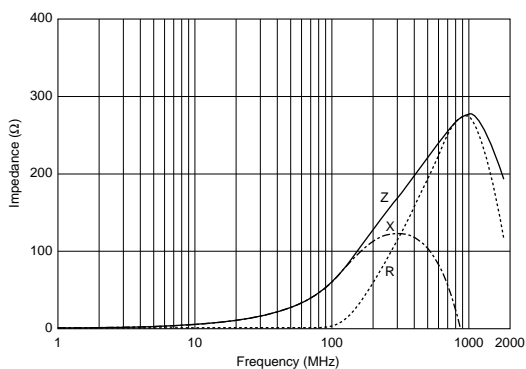
BLM15BB220SN1



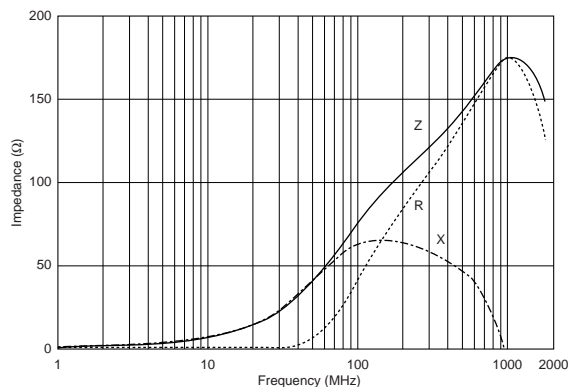
BLM15BB470SN1



BLM15BB750SN1



BLM15BD750SN1

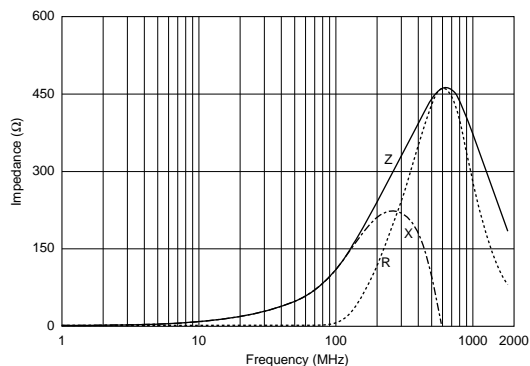


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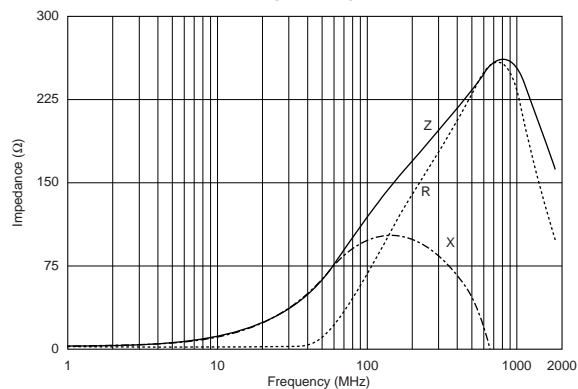
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## ■ Impedance-Frequency Characteristics

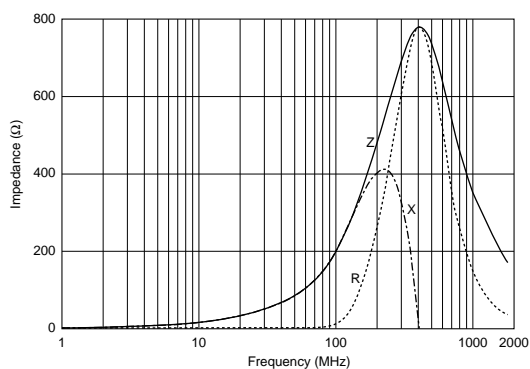
BLM15BB121SN1



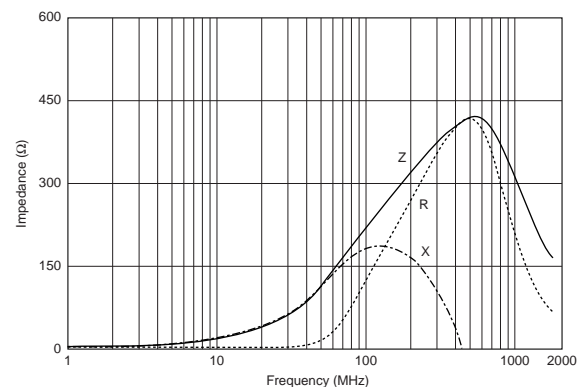
BLM15BD121SN1



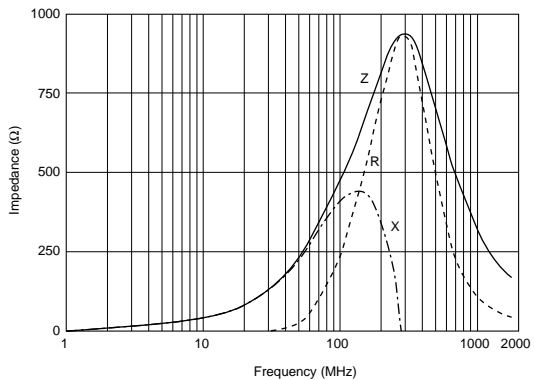
BLM15BB221SN1



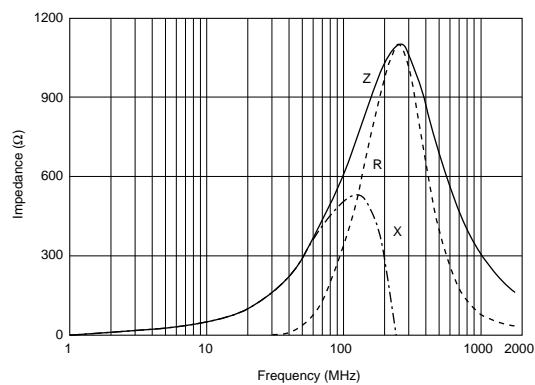
BLM15BD221SN1



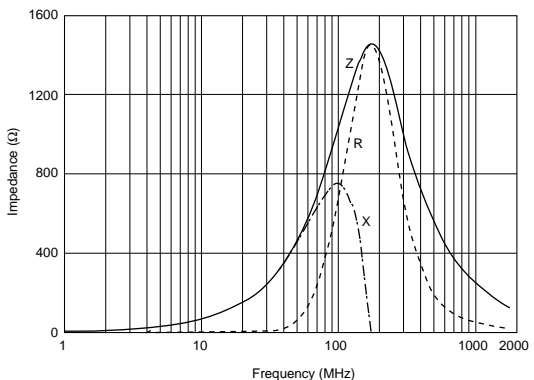
BLM15BD471SN1



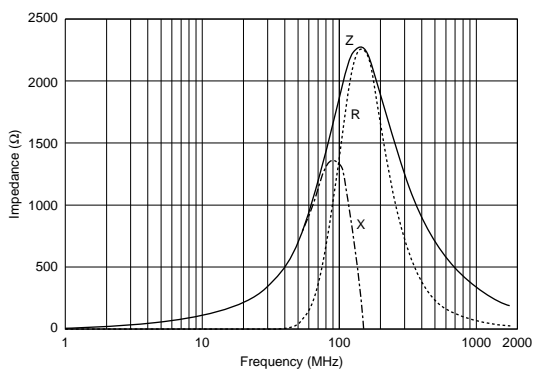
BLM15BD601SN1



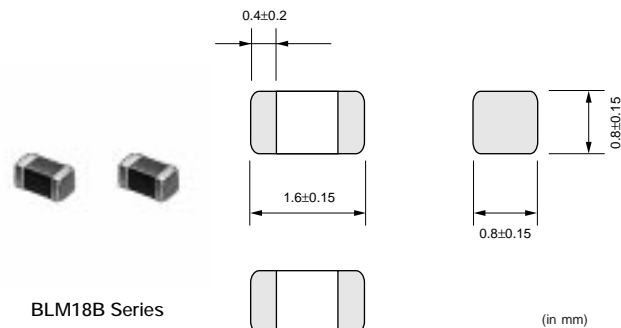
BLM15BD102SN1



BLM15BD182SN1



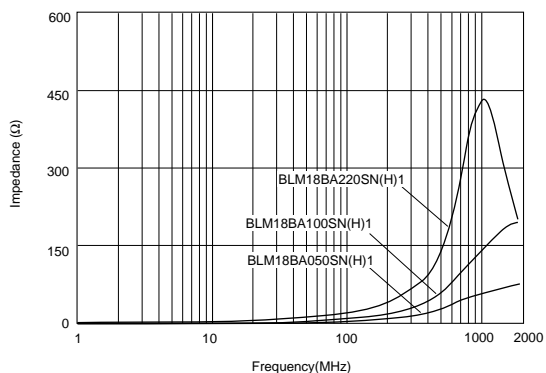
## BLM18B Series (0603 Size)



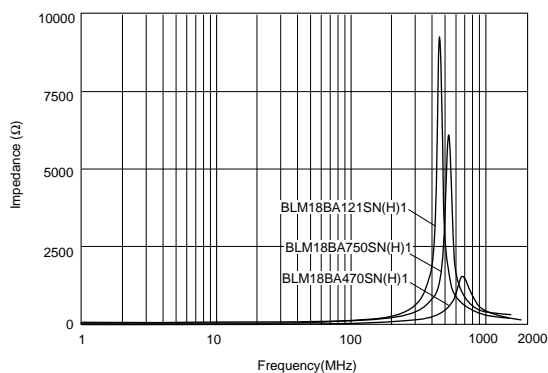
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM18BA050SN1	5 ±25%	500	0.20	-55 to +125
BLM18BB050SN1	5 ±25%	700	0.10	-55 to +125
BLM18BA100SN1	10 ±25%	500	0.25	-55 to +125
BLM18BB100SN1	10 ±25%	500	0.15	-55 to +125
BLM18BA220SN1	22 ±25%	500	0.35	-55 to +125
BLM18BB220SN1	22 ±25%	500	0.25	-55 to +125
BLM18BA470SN1	47 ±25%	300	0.55	-55 to +125
BLM18BB470SN1	47 ±25%	500	0.30	-55 to +125
BLM18BB600SN1	60 ±25%	200	0.35	-55 to +125
BLM18BA750SN1	75 ±25%	300	0.70	-55 to +125
BLM18BB750SN1	75 ±25%	200	0.35	-55 to +125
BLM18BA121SN1	120 ±25%	200	0.90	-55 to +125
BLM18BB121SN1	120 ±25%	200	0.50	-55 to +125
BLM18BD121SN1	120 ±25%	200	0.40	-55 to +125
BLM18BB141SN1	140 ±25%	200	0.55	-55 to +125
BLM18BB151SN1	150 ±25%	200	0.55	-55 to +125
BLM18BD151SN1	150 ±25%	200	0.40	-55 to +125
BLM18BB221SN1	220 ±25%	200	0.65	-55 to +125
BLM18BD221SN1	220 ±25%	200	0.45	-55 to +125
BLM18BB331SN1	330 ±25%	200	0.75	-55 to +125
BLM18BD331SN1	330 ±25%	200	0.50	-55 to +125
BLM18BD421SN1	420 ±25%	200	0.55	-55 to +125
BLM18BB471SN1	470 ±25%	50	1.00	-55 to +125
BLM18BD471SN1	470 ±25%	200	0.55	-55 to +125
BLM18BD601SN1	600 ±25%	200	0.65	-55 to +125
BLM18BD102SN1	1000 ±25%	100	0.85	-55 to +125
BLM18BD152SN1	1500 ±25%	50	1.20	-55 to +125
BLM18BD182SN1	1800 ±25%	50	1.50	-55 to +125
BLM18BD222SN1	2200 ±25%	50	1.50	-55 to +125
BLM18BD252SN1	2500 ±25%	50	1.50	-55 to +125

## ■ Impedance-Frequency (Typical)

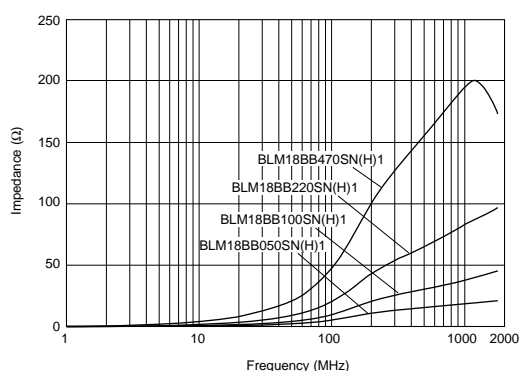
BLM18BA Series



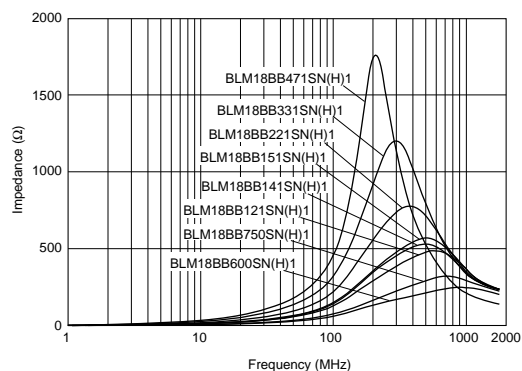
BLM18BA Series



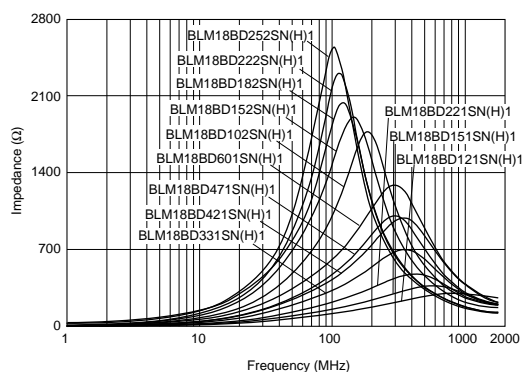
BLM18BB Series



BLM18BB Series

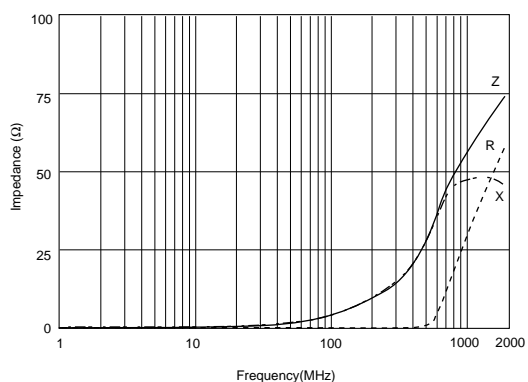


BLM18BD Series

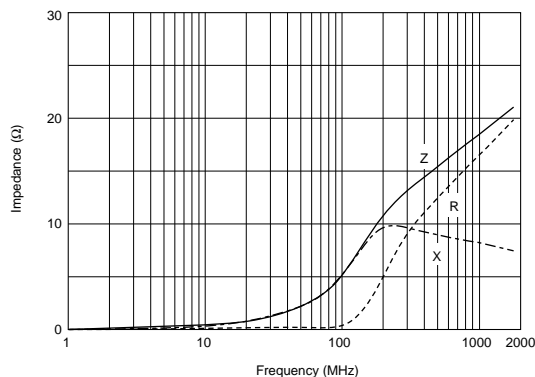


## ■ Impedance-Frequency Characteristics

BLM18BA050SN1



BLM18BB050SN1

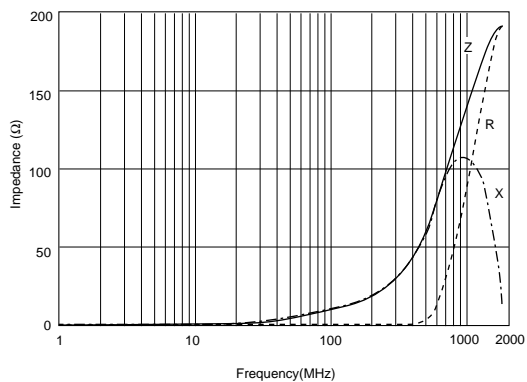


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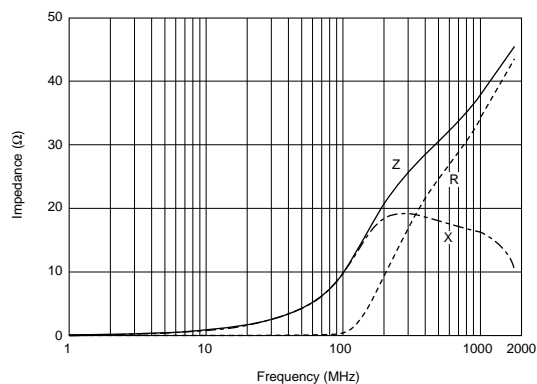
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## ■ Impedance-Frequency Characteristics

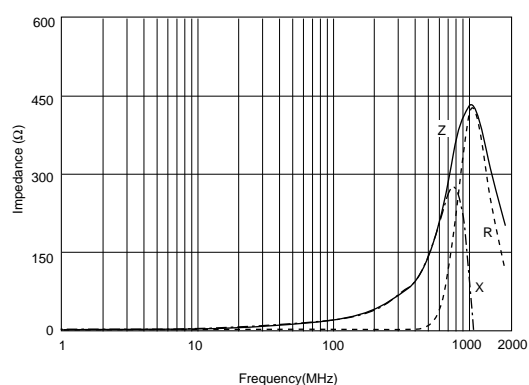
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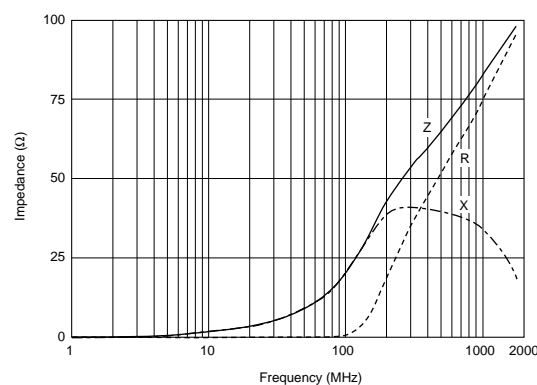
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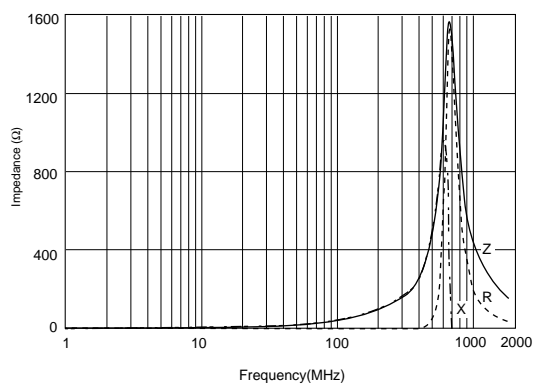
BLM18BA220SN1



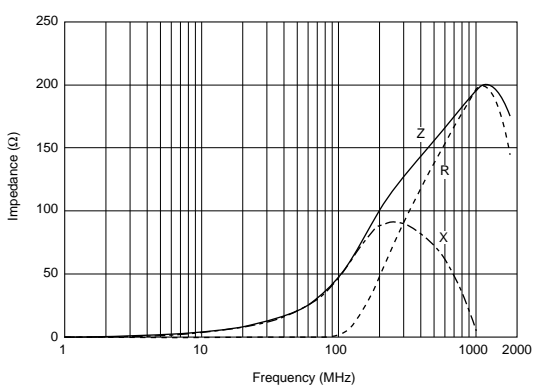
BLM18BB220SN1



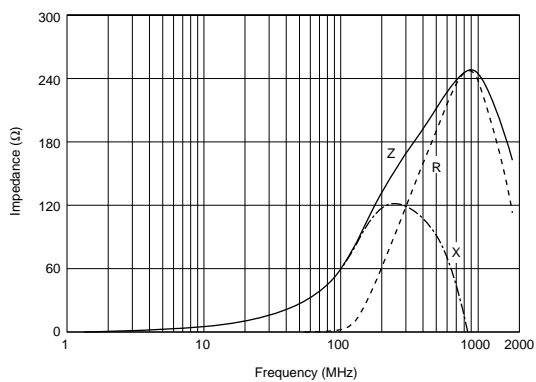
BLM18BA470SN1



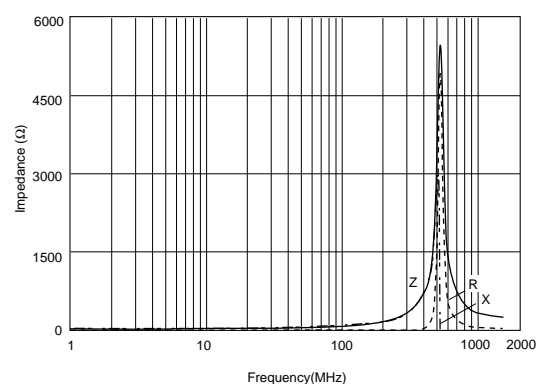
BLM18BB470SN1



BLM18BB600SN1



BLM18BA750SN1

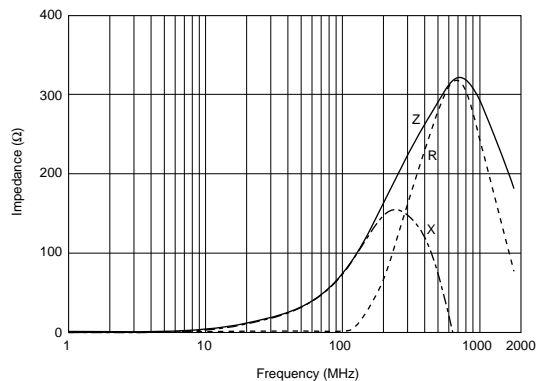


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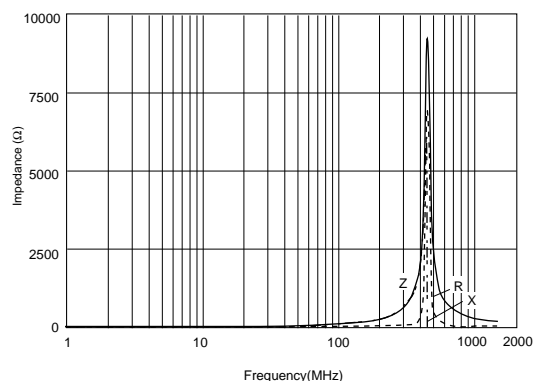
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## Impedance-Frequency Characteristics

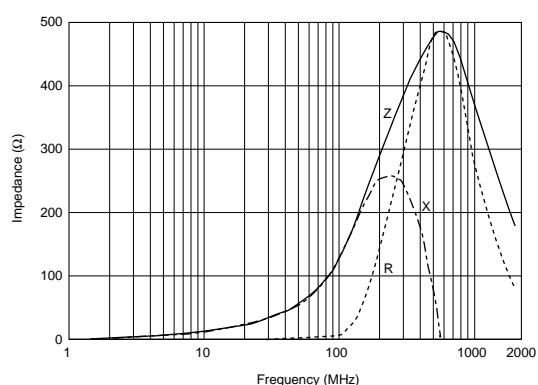
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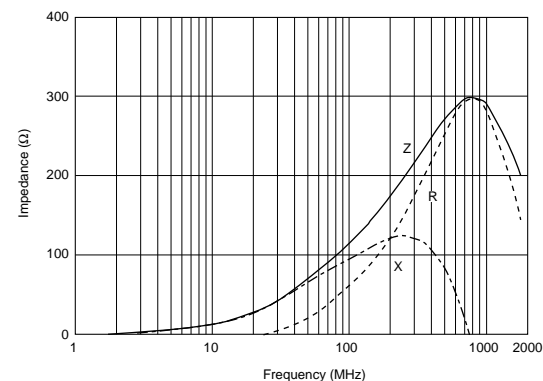
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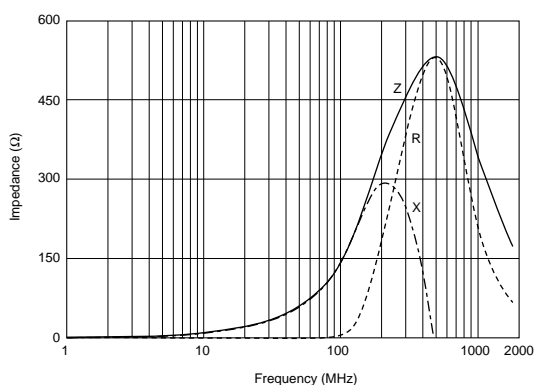
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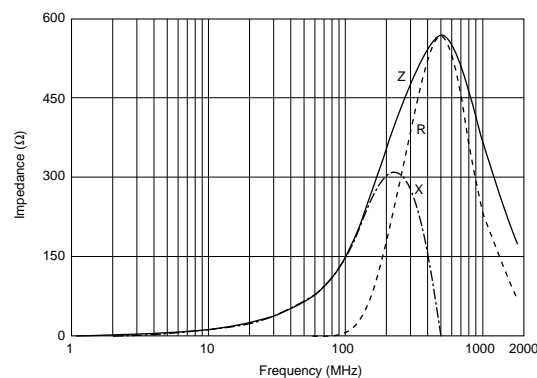
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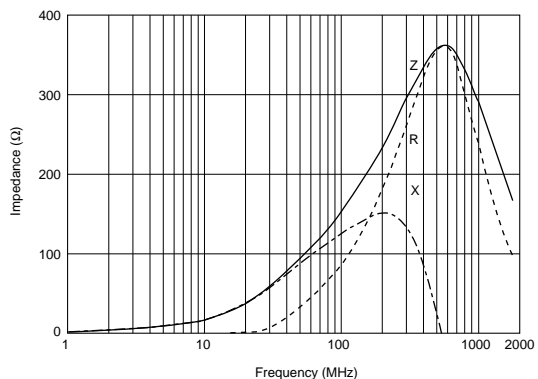
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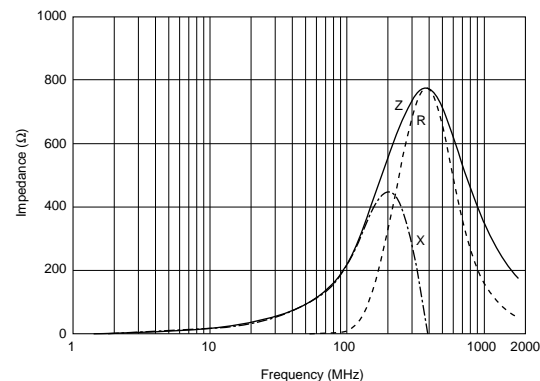
BLM18BB151SN1



BLM18BD151SN1



BLM18BB221SN1

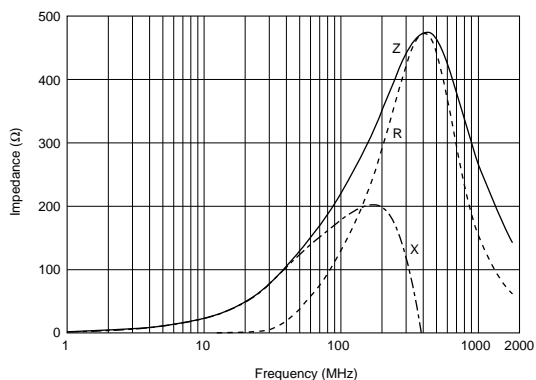


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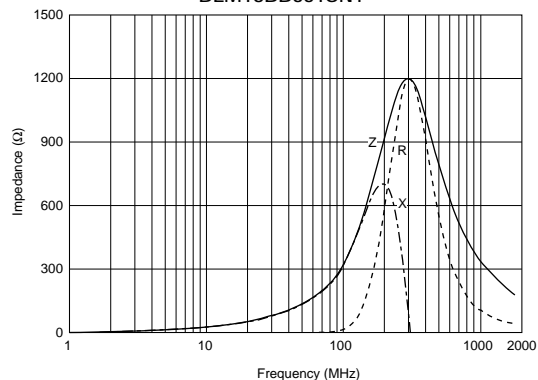
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## ■ Impedance-Frequency Characteristics

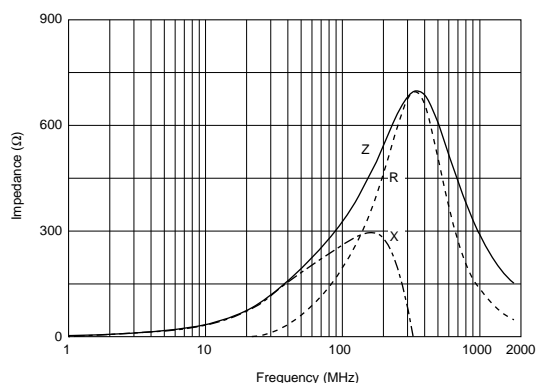
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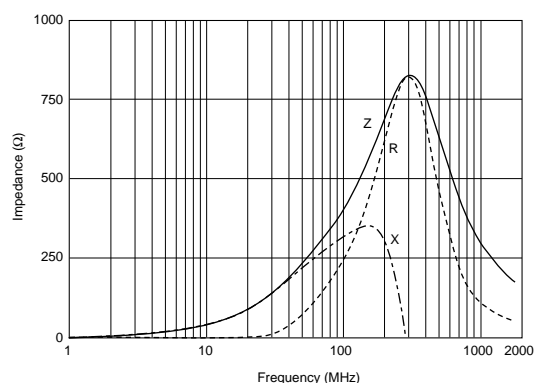
BLM18BB331SN1



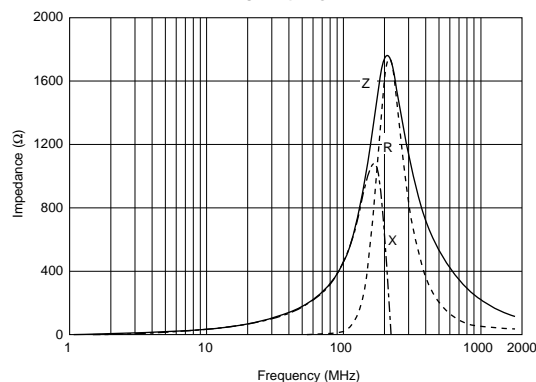
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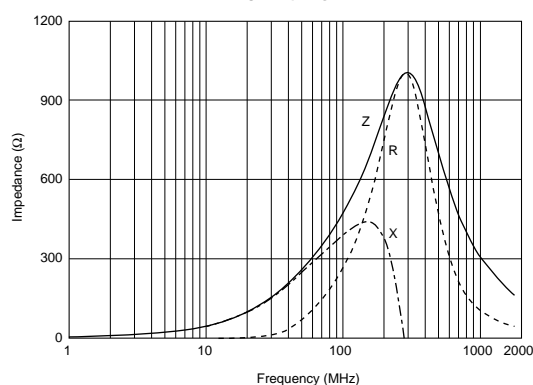
BLM18BD421SN1



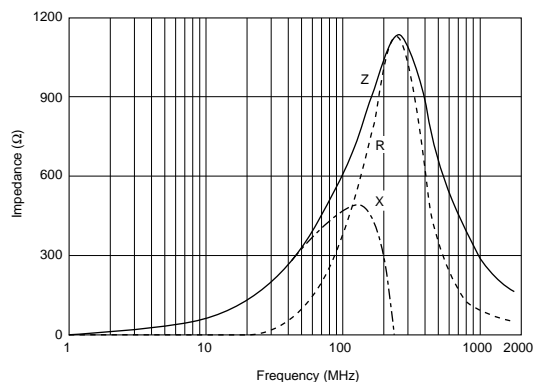
BLM18BB471SN1



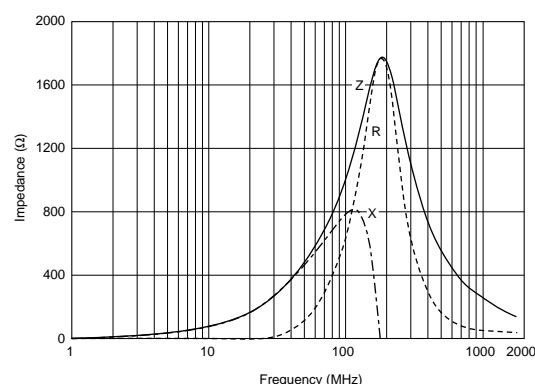
BLM18BD471SN1



BLM18BD601SN1



BLM18BD102SN1



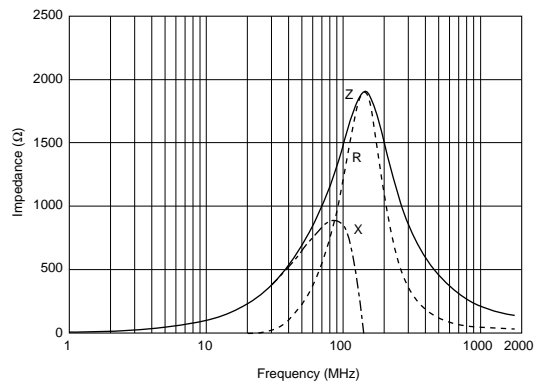
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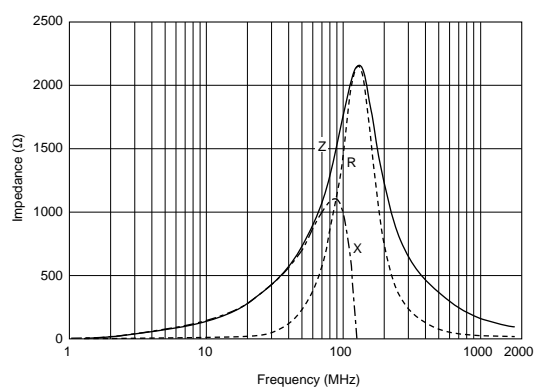
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## Impedance-Frequency Characteristics

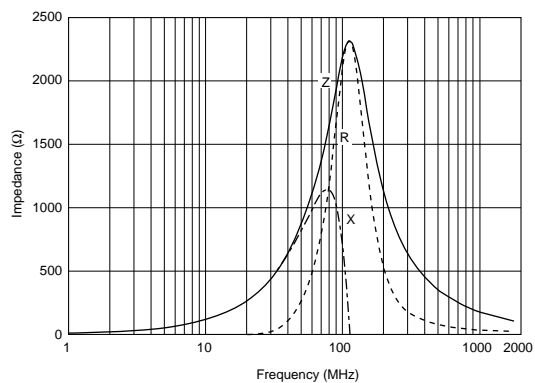
BLM18BD152SN1



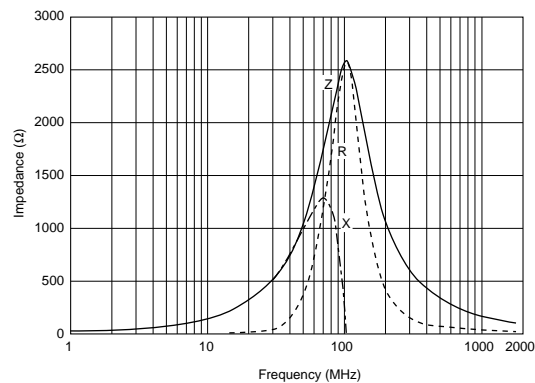
BLM18BD182SN1



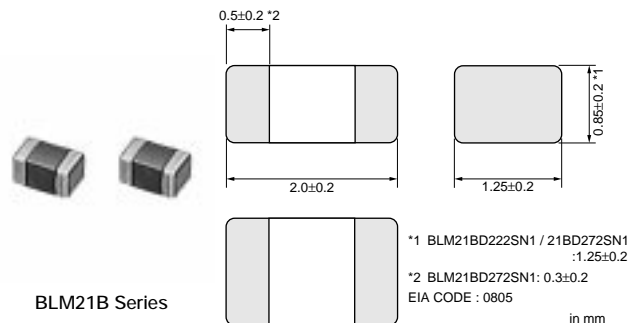
BLM18BD222SN1



BLM18BD252SN1

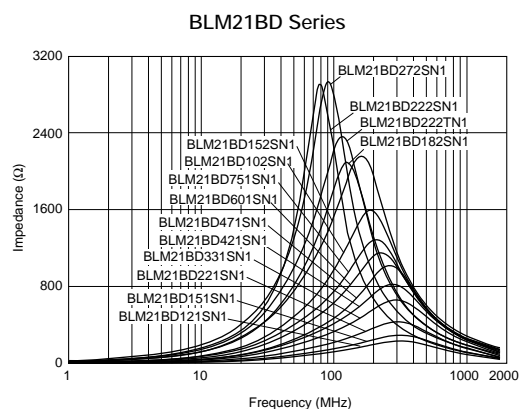
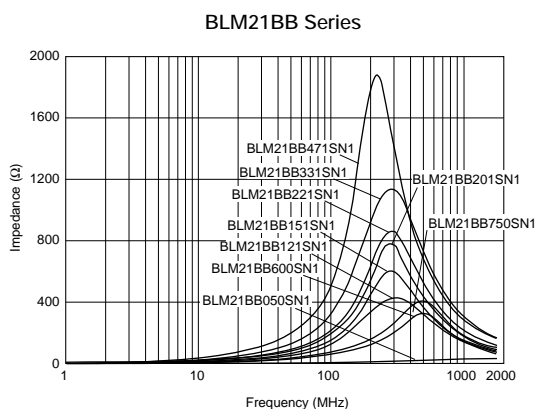


## BLM21B Series (0805 Size)



Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21BB050SN1	5 ±25%	500	0.07	-55 to +125
BLM21BB600SN1	60 ±25%	200	0.20	-55 to +125
BLM21BB750SN1	75 ±25%	200	0.25	-55 to +125
BLM21BB121SN1	120 ±25%	200	0.25	-55 to +125
BLM21BD121SN1	120 ±25%	200	0.25	-55 to +125
BLM21BB151SN1	150 ±25%	200	0.25	-55 to +125
BLM21BD151SN1	150 ±25%	200	0.25	-55 to +125
BLM21BB201SN1	200 ±25%	200	0.35	-55 to +125
BLM21BB221SN1	220 ±25%	200	0.35	-55 to +125
BLM21BD221SN1	220 ±25%	200	0.25	-55 to +125
BLM21BB331SN1	330 ±25%	200	0.40	-55 to +125
BLM21BD331SN1	330 ±25%	200	0.30	-55 to +125
BLM21BD421SN1	420 ±25%	200	0.30	-55 to +125
BLM21BB471SN1	470 ±25%	200	0.45	-55 to +125
BLM21BD471SN1	470 ±25%	200	0.35	-55 to +125
BLM21BD601SN1	600 ±25%	200	0.35	-55 to +125
BLM21BD751SN1	750 ±25%	200	0.40	-55 to +125
BLM21BD102SN1	1000 ±25%	200	0.40	-55 to +125
BLM21BD152SN1	1500 ±25%	200	0.45	-55 to +125
BLM21BD182SN1	1800 ±25%	200	0.50	-55 to +125
BLM21BD222TN1	2200 ±25%	200	0.60	-55 to +125
BLM21BD222SN1	2250 (Typ.)	200	0.60	-55 to +125
BLM21BD272SN1	2700 ±25%	200	0.80	-55 to +125

### ■ Impedance-Frequency (Typical)

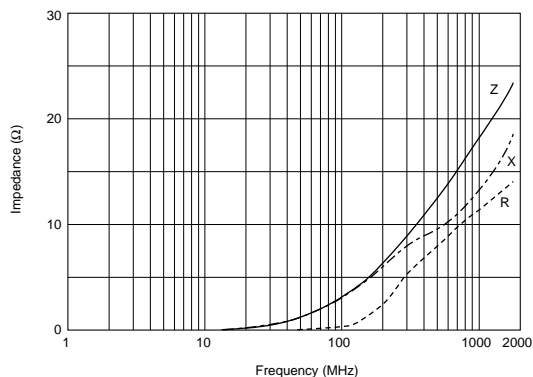


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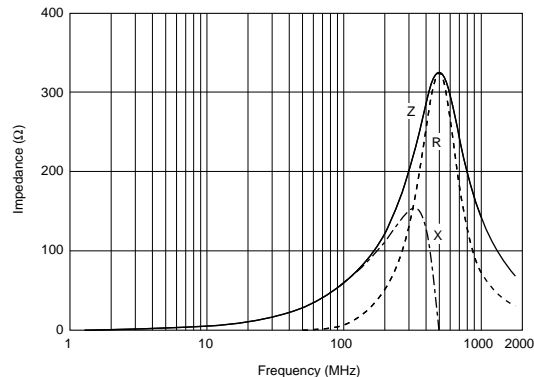
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## ■ Impedance-Frequency Characteristics

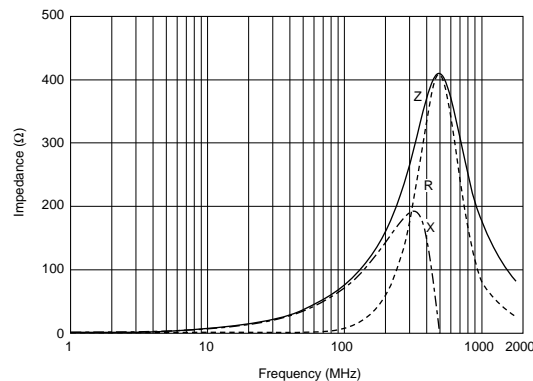
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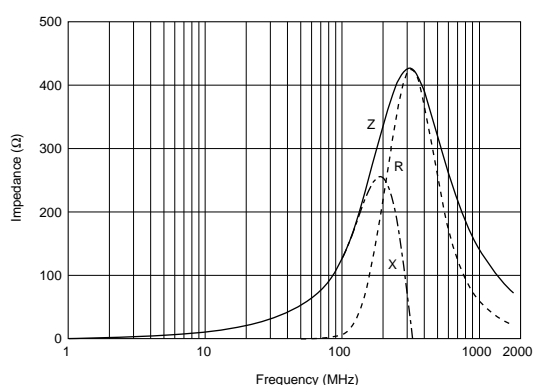
BLM21BB600SN1



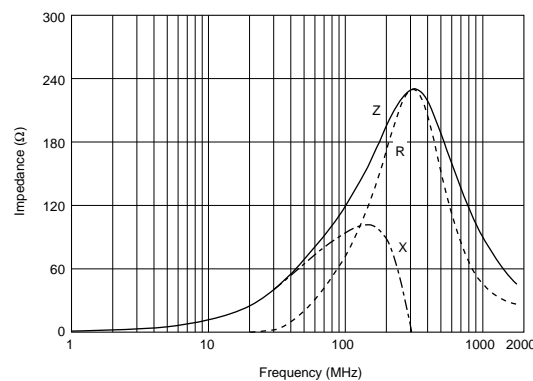
BLM21BB750SN1



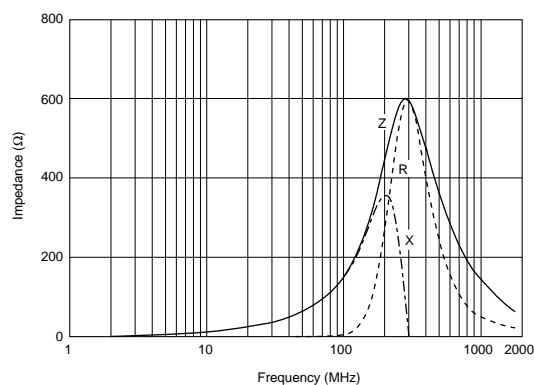
BLM21BB121SN1



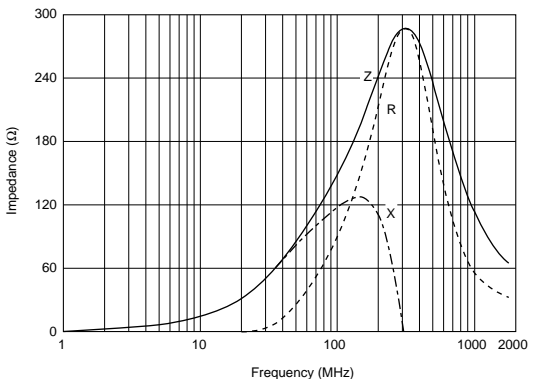
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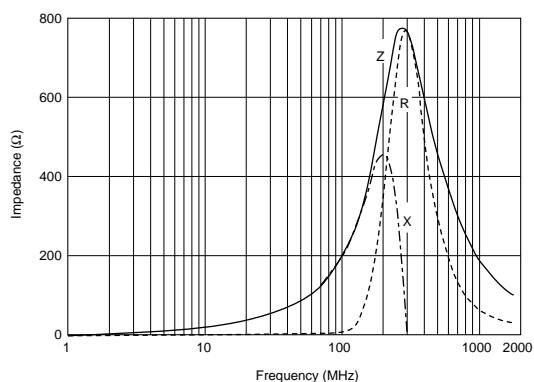
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BLM21BD151SN1



BLM21BB201SN1

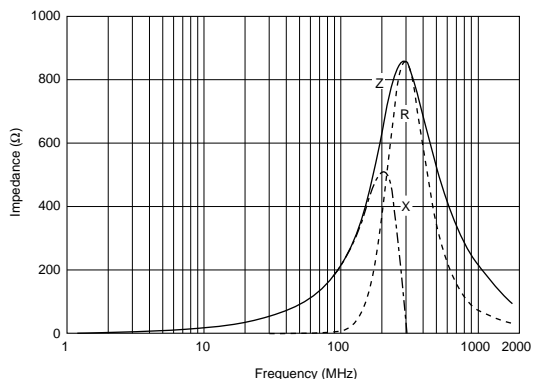


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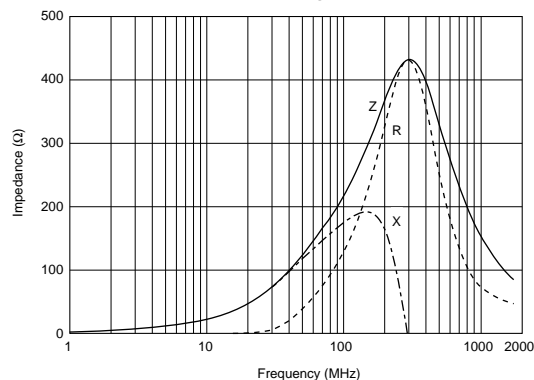
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## Impedance-Frequency Characteristics

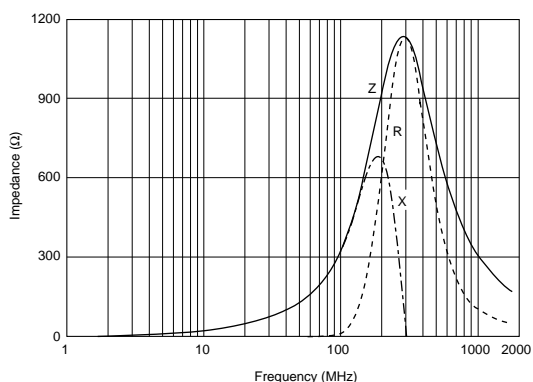
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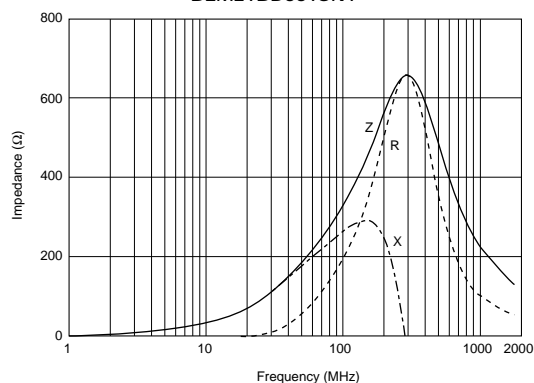
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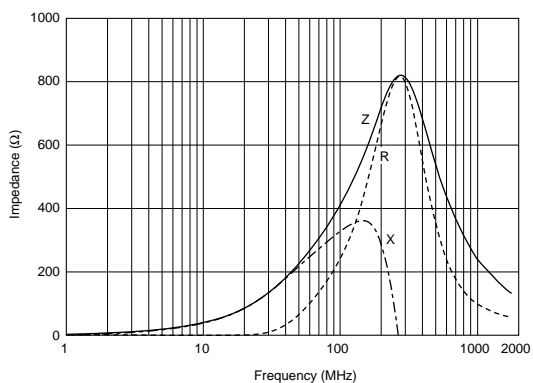
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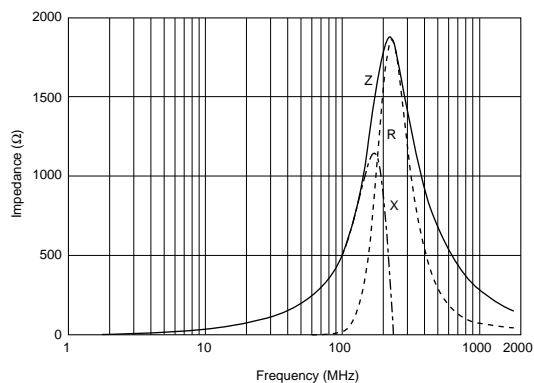
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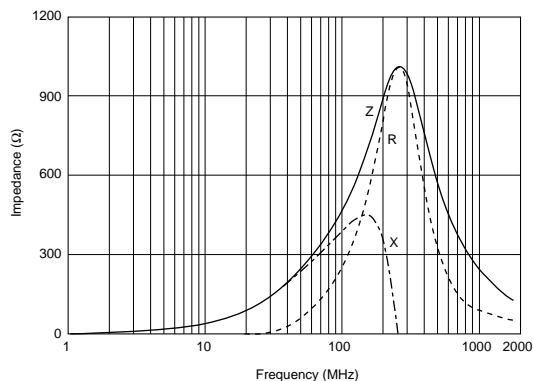
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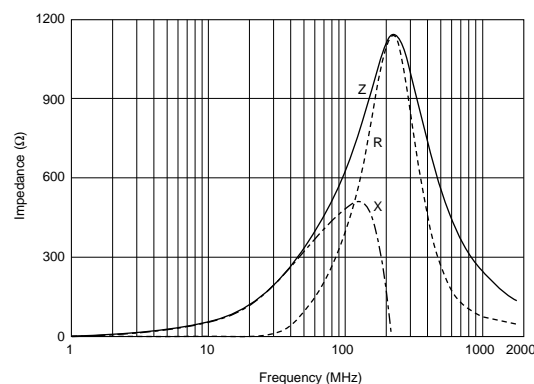
BLM21BB471SN1



BLM21BD471SN1



BLM21BD601SN1

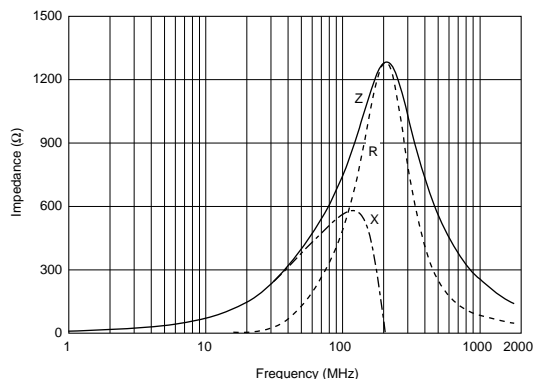


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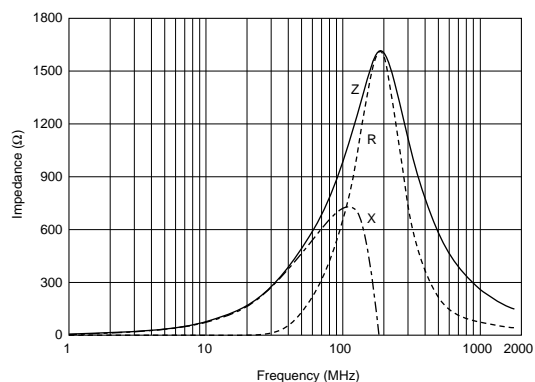
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## ■ Impedance-Frequency Characteristics

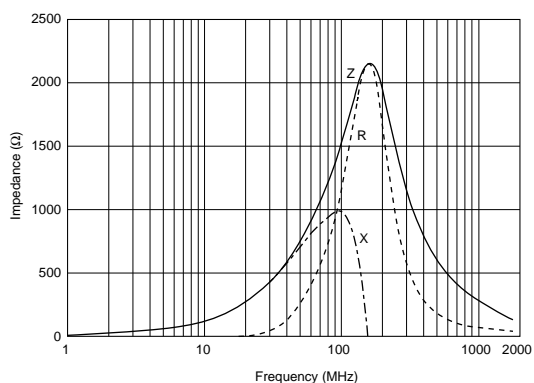
BLM21BD751SN1



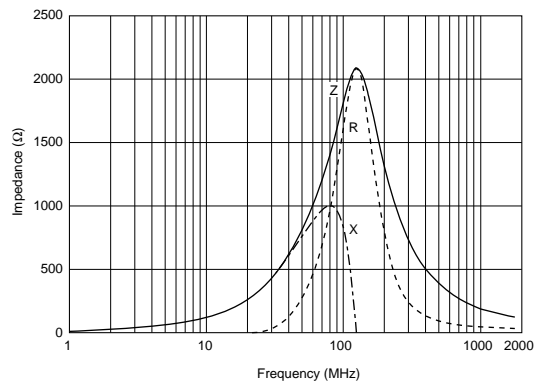
BLM21BD102SN1



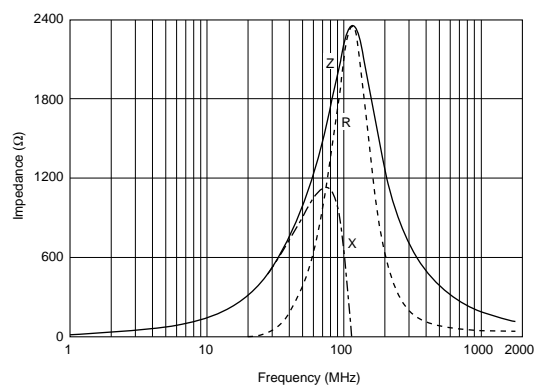
BLM21BD152SN1



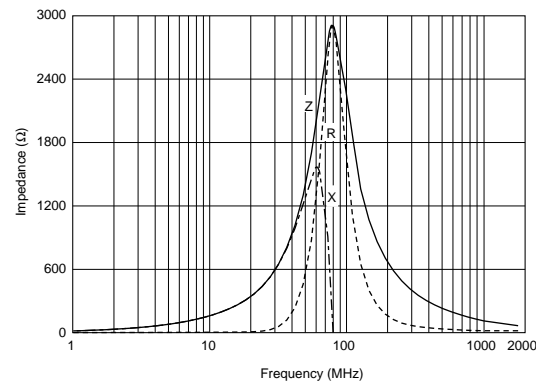
BLM21BD182SN1



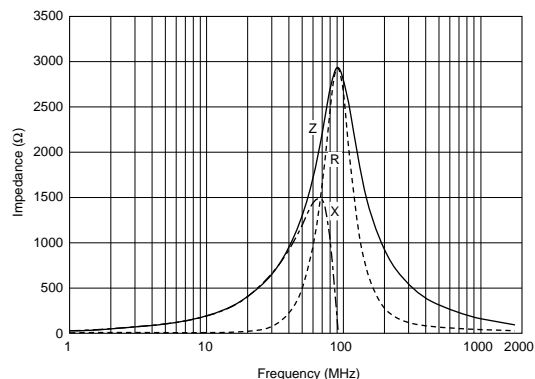
BLM21BD222TN1



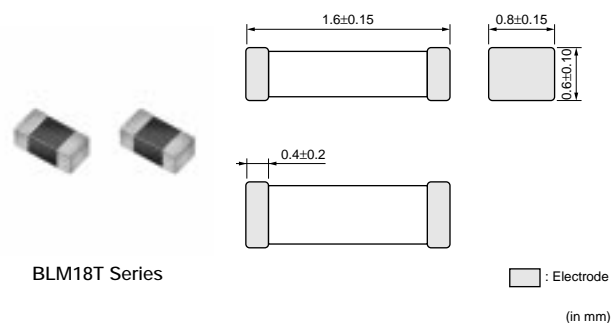
BLM21BD222SN1



BLM21BD272SN1

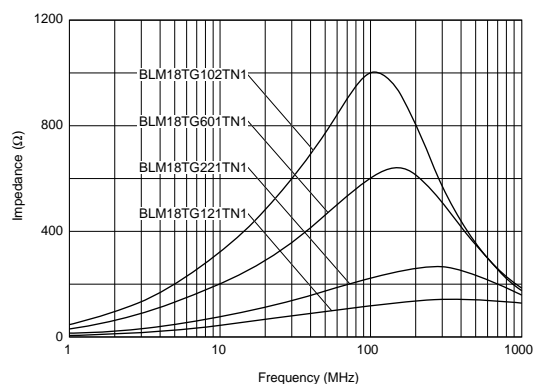


## BLM18T Series (0603 Size)

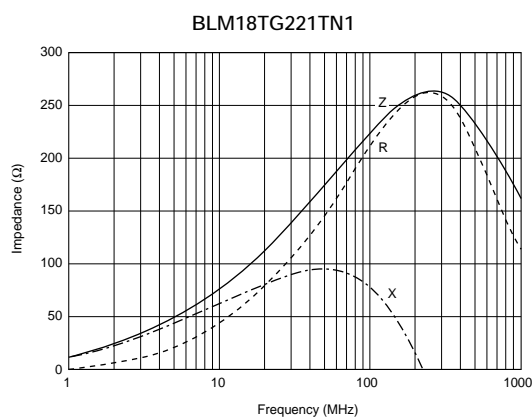
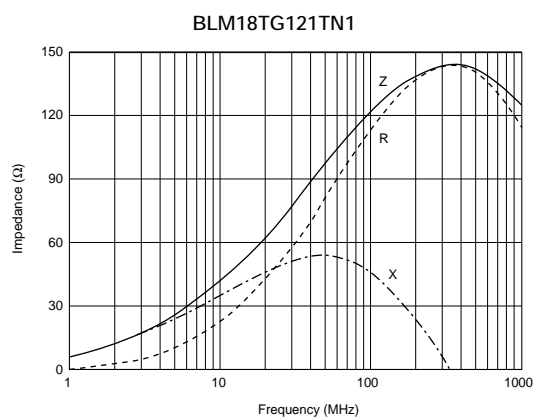


Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM18TG121TN1	120 ±25%	200	0.25	-55 to +125
BLM18TG221TN1	220 ±25%	200	0.30	-55 to +125
BLM18TG601TN1	600 ±25%	200	0.45	-55 to +125
BLM18TG102TN1	1000 ±25%	100	0.60	-55 to +125

### ■ Impedance-Frequency (Typical)



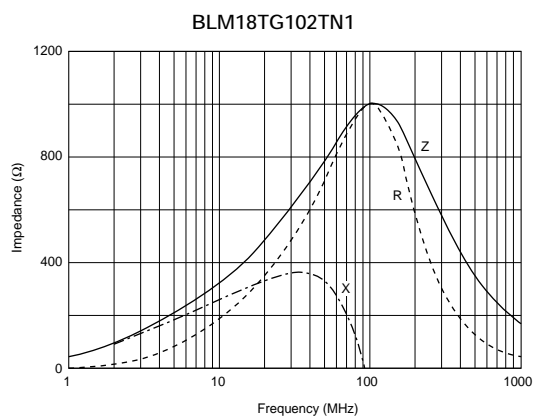
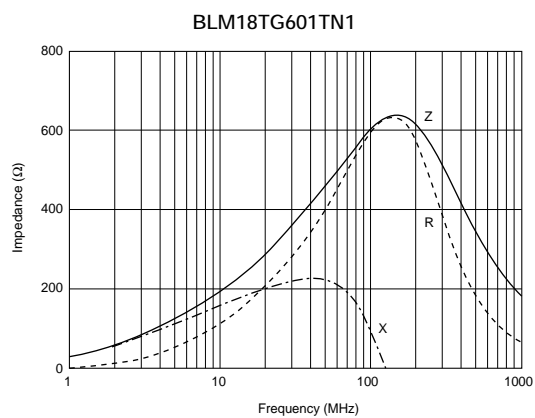
### ■ Impedance-Frequency Characteristics



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## ■ Impedance-Frequency Characteristics

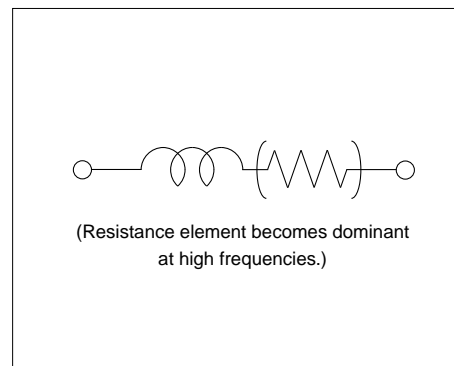


## ■ Features (BLM\_R Series)

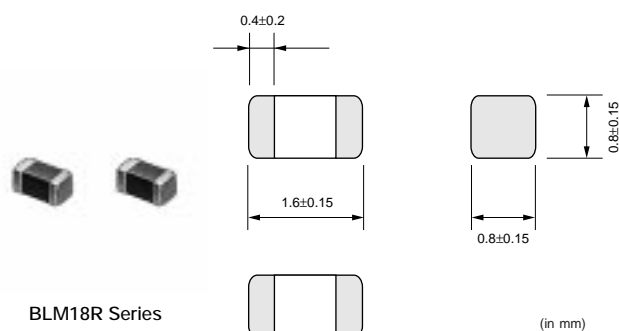
The chip ferrite bead BLM series comprises ferrite beads in the shape of a chip. This ferrite bead generates a high impedance which at high frequencies mainly consists of a resistance element. The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection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

The nickel barrier structure of the external electrodes provides excellent solder heat resistance. The BLM\_R series can be used in a digital Interface. Resistance of BLM\_R series especially grows in the lower frequency range. Therefore BLM\_R series is less effective for digital signal waveform at low frequency range and can suppress the ringing.

## ■ Equivalent Circuit

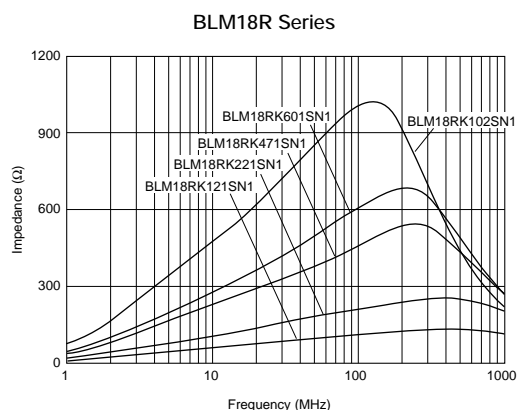


### BLM18R Series (0603 Size)



Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM18RK121SN1	120 ±25%	200	0.25	-55 to +125
BLM18RK221SN1	220 ±25%	200	0.30	-55 to +125
BLM18RK471SN1	470 ±25%	200	0.50	-55 to +125
BLM18RK601SN1	600 ±25%	200	0.60	-55 to +125
BLM18RK102SN1	1000 ±25%	200	0.80	-55 to +125

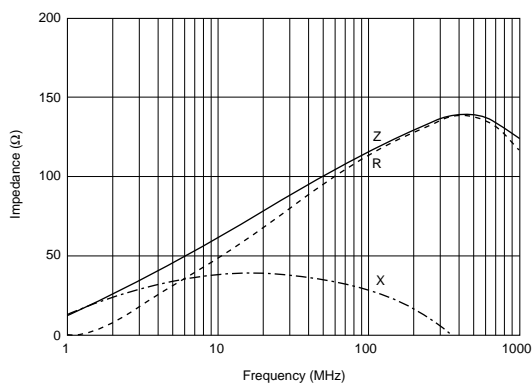
## ■ Impedance-Frequency (Typical)



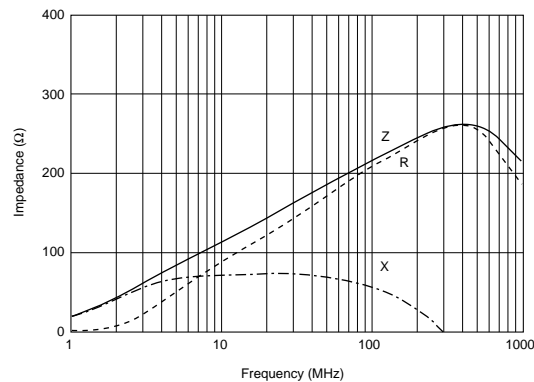


## ■ Impedance-Frequency Characteristics

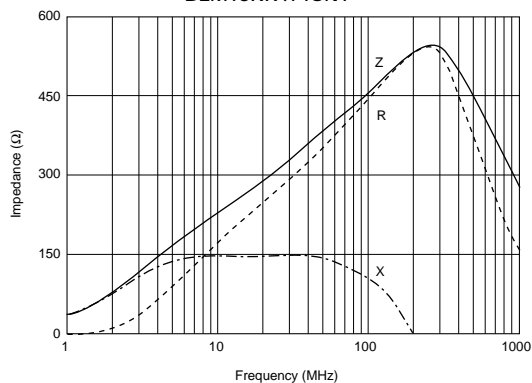
BLM18RK121SN1



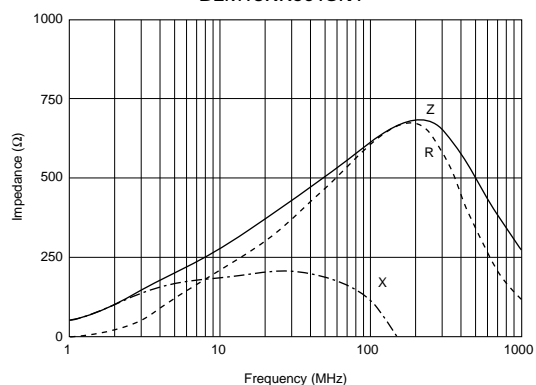
BLM18RK221SN1



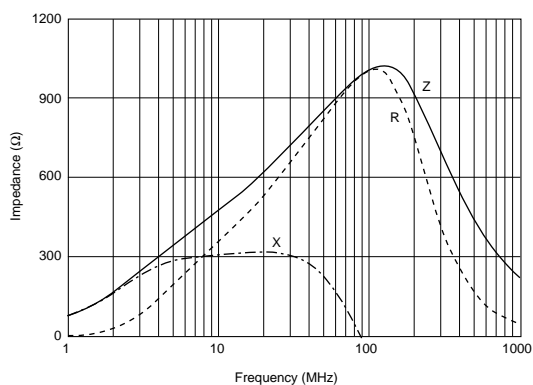
BLM18RK471SN1



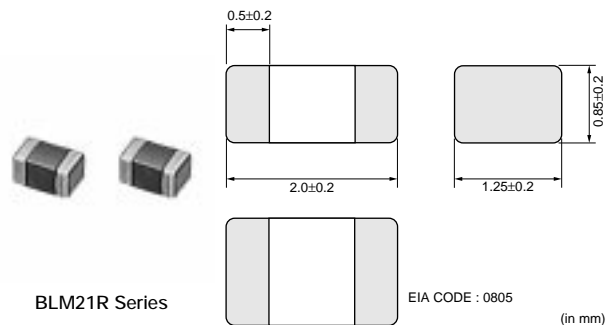
BLM18RK601SN1



BLM18RK102SN1

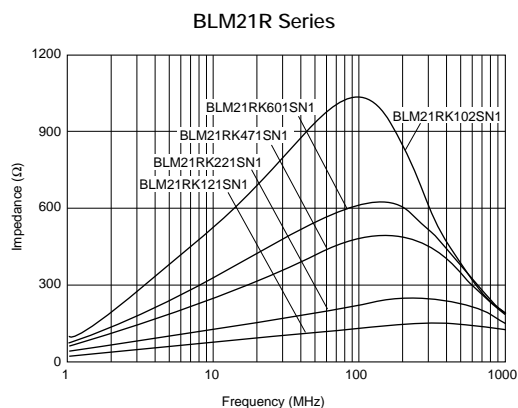


## BLM21R Series (0805 Size)

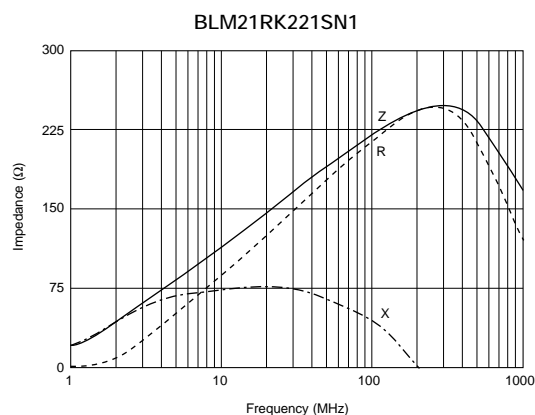
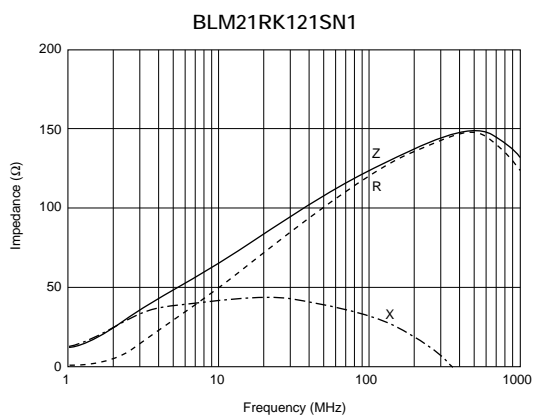


Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21RK121SN1	120 ±25%	200	0.15	-55 to +125
BLM21RK221SN1	220 ±25%	200	0.20	-55 to +125
BLM21RK471SN1	470 ±25%	200	0.25	-55 to +125
BLM21RK601SN1	600 ±25%	200	0.30	-55 to +125
BLM21RK102SN1	1000 ±25%	200	0.50	-55 to +125

### ■ Impedance-Frequency (Typical)



### ■ Impedance-Frequency Characteristics

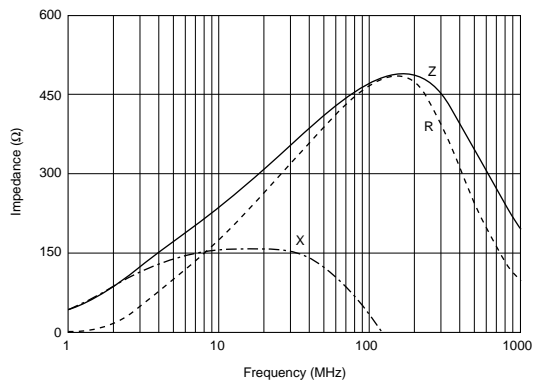


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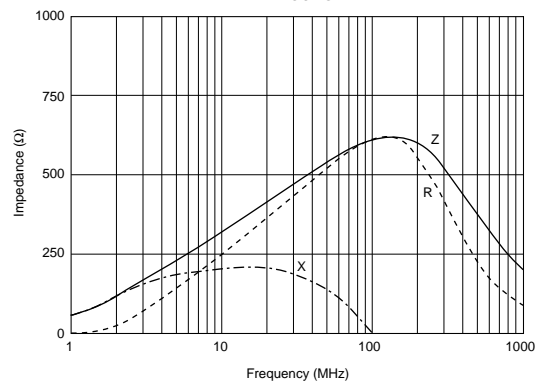
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## Impedance-Frequency Characteristics

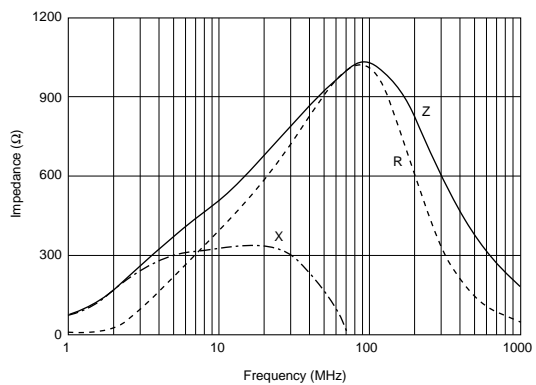
BLM21RK471SN1



BLM21RK601SN1



BLM21RK102SN1

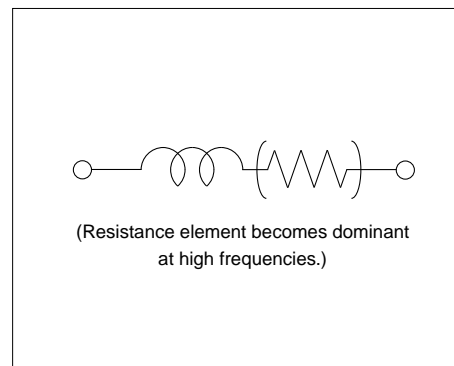


## ■ Features (BLM\_P Series)

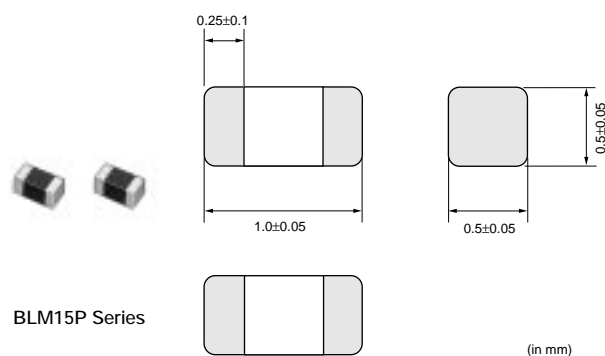
The chip ferrite bead BLM series comprises ferrite beads in the shape of a chip. This ferrite bead generates a high impedance which at high frequencies mainly consists of a resistance element. The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection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

## ■ Equivalent Circuit

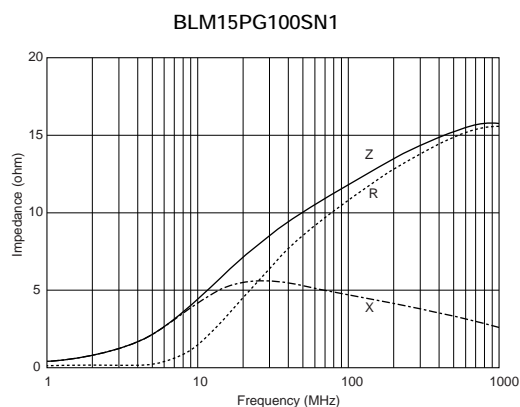


## BLM15P Series (0402 Size)

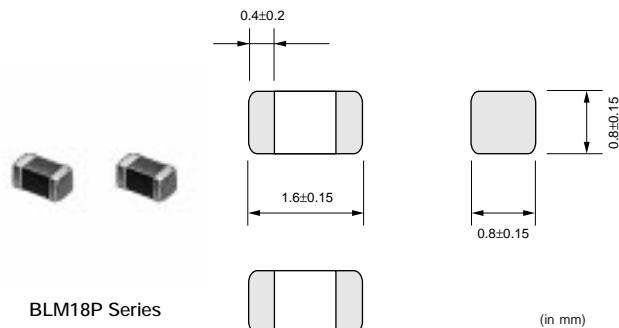


Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM15PG100SN1	10 (Typ.)	1000	0.05	-55 to +125

## ■ Impedance-Frequency Characteristics



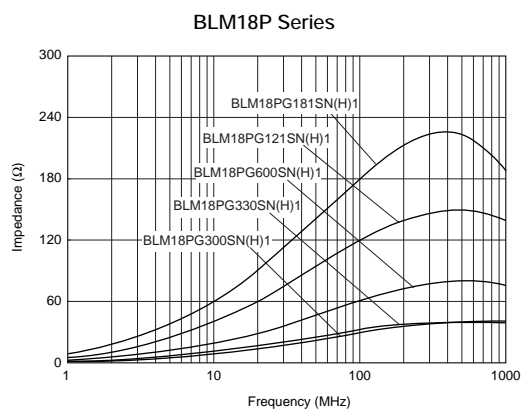
## BLM18P Series (0603 Size)



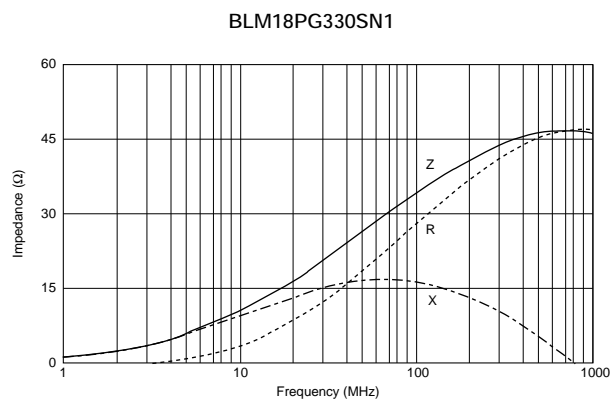
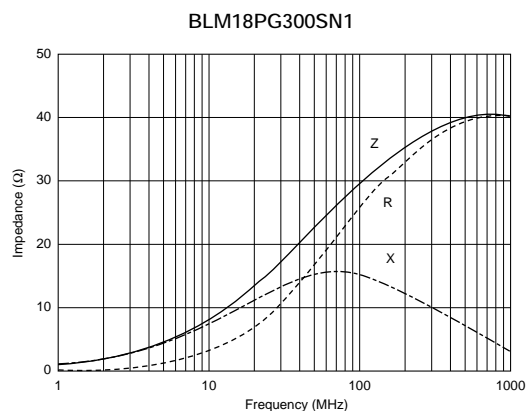
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM18PG300SN1</b>	30 (Typ.)	1000	0.05	-55 to +125
<b>BLM18PG330SN1</b>	33 ±25%	3000	0.025	-55 to +125
<b>BLM18PG600SN1</b>	60 (Typ.)	500	0.10	-55 to +125
<b>BLM18PG121SN1</b>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

At rated current upper than 1500mA, derating is required.  
Please refer P. 53, "Derating of Rated Current".

### ■ Impedance-Frequency (Typical)



### ■ Impedance-Frequency Characteristics

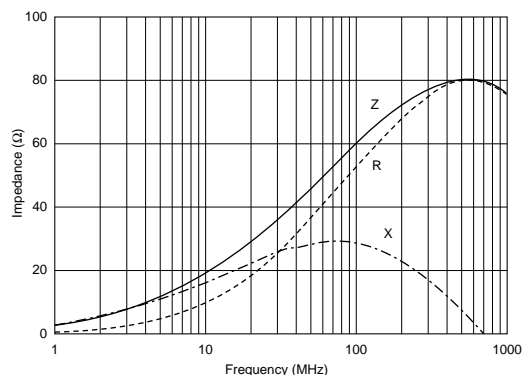


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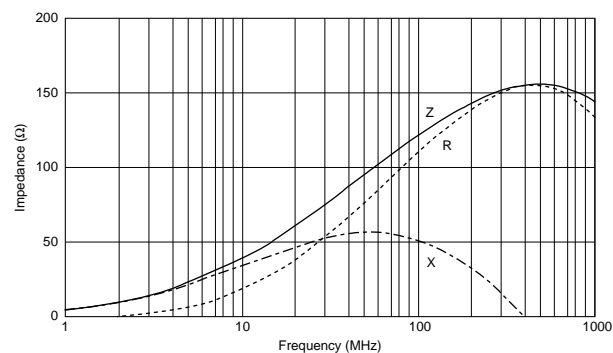
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## ■ Impedance-Frequency Characteristics

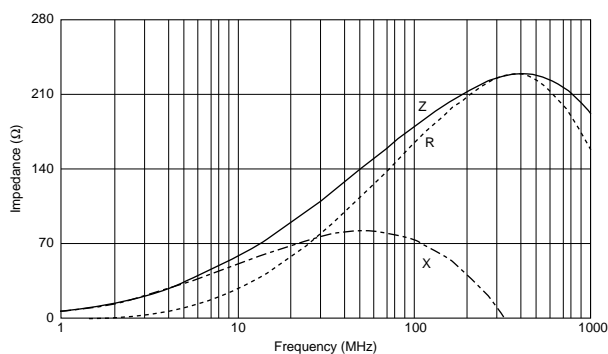
BLM18PG600SN1



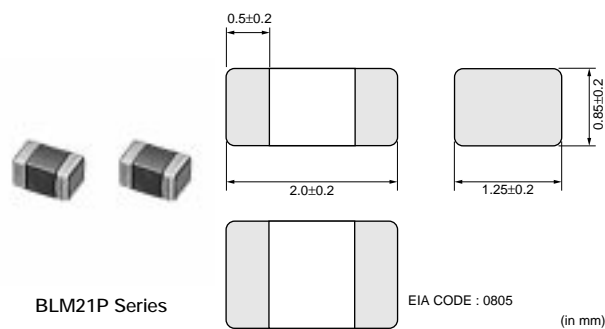
BLM18PG121SN1



BLM18PG181SN1



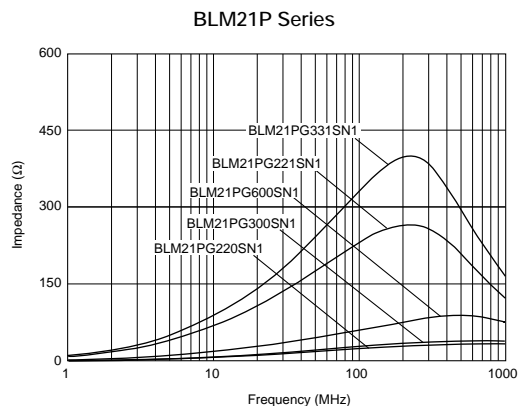
## BLM21P Series (0805 Size)



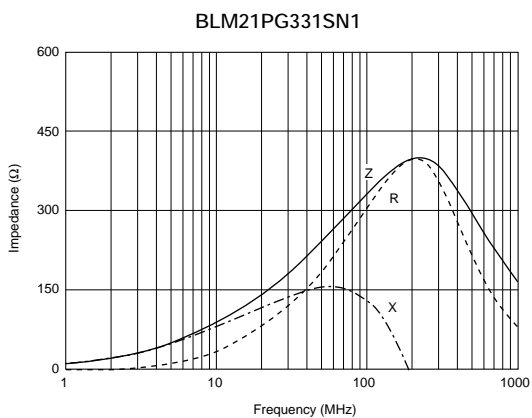
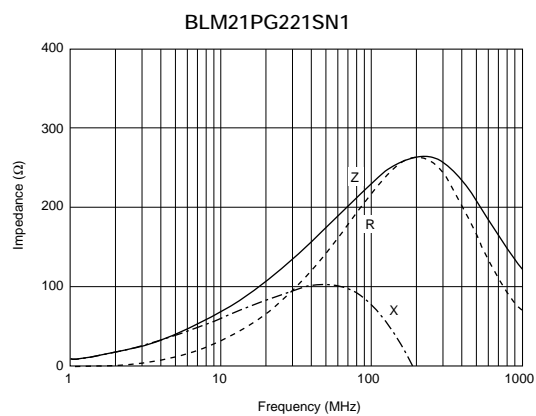
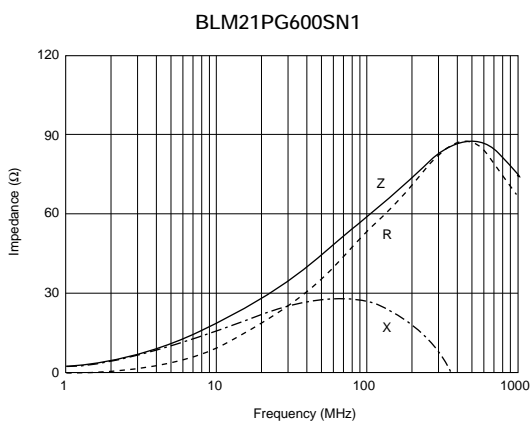
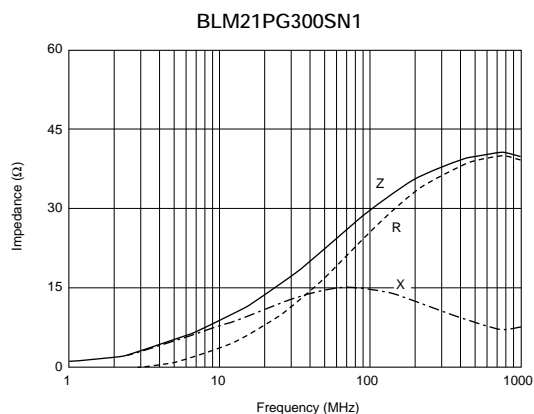
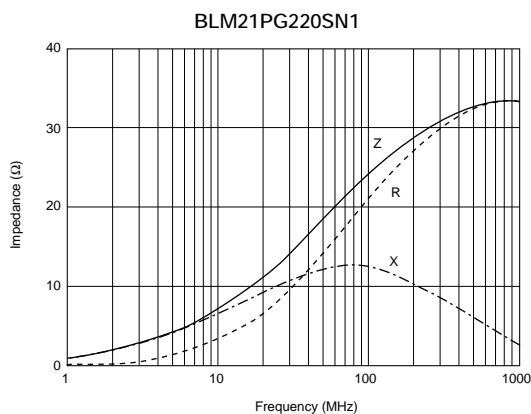
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21PG220SN1	22 ±25%	6000	0.01	-55 to +125
BLM21PG300SN1	30 (Typ.)	3000	0.015	-55 to +125
BLM21PG600SN1	60 ±25%	3000	0.025	-55 to +125
BLM21PG221SN1	220 ±25%	2000	0.050	-55 to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

At rated current upper than 1500mA, derating is required.  
Please refer P. 53, "Derating of Rated Current".

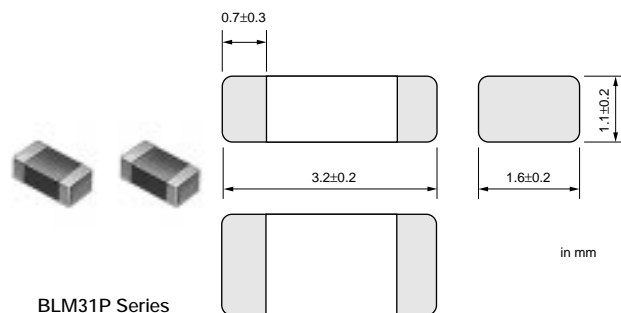
## ■ Impedance-Frequency (Typical)



## ■ Impedance-Frequency Characteristics



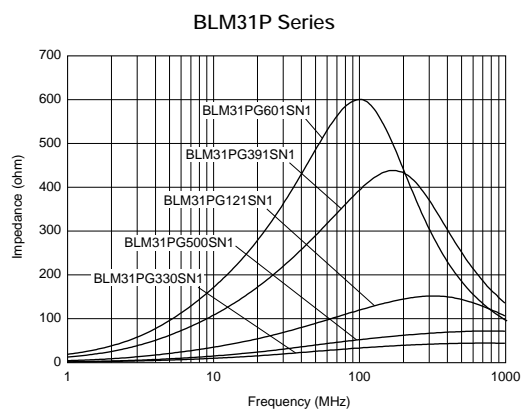
## BLM31P Series (1206 Size)



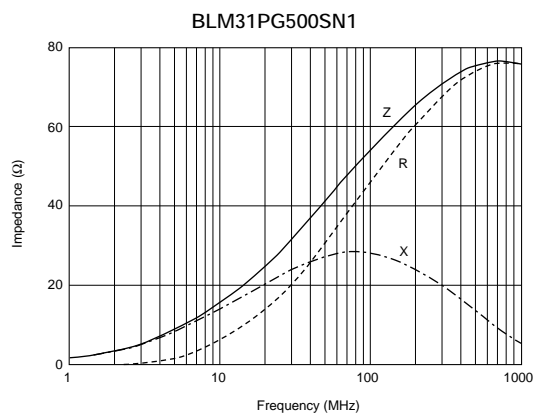
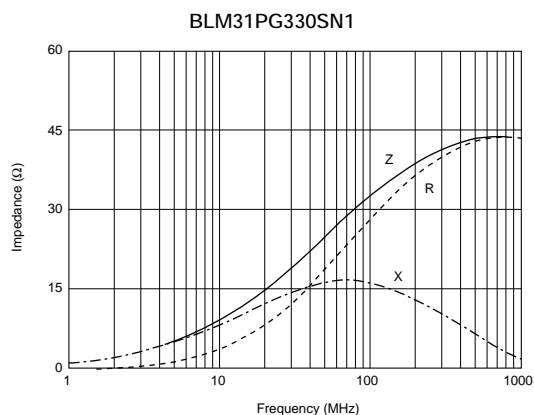
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM31PG330SN1	33 ±25%	6000	0.01	-55 to +125
BLM31PG500SN1	50 (Typ.)	3000	0.025	-55 to +125
BLM31PG121SN1	120 ±25%	3000	0.025	-55 to +125
BLM31PG391SN1	390 ±25%	2000	0.05	-55 to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

At rated current upper than 1500mA, derating is required.  
Please refer P. 53, "Derating of Rated Current".

### ■ Impedance-Frequency (Typical)



### ■ Impedance-Frequency Characteristics



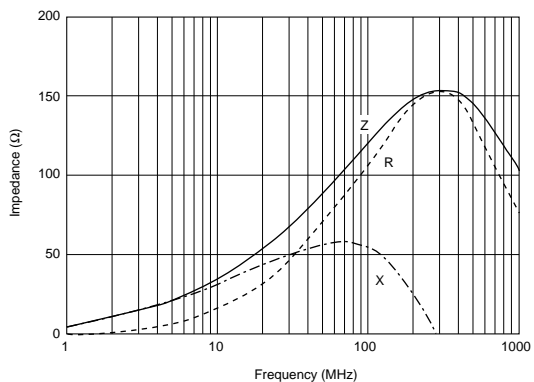
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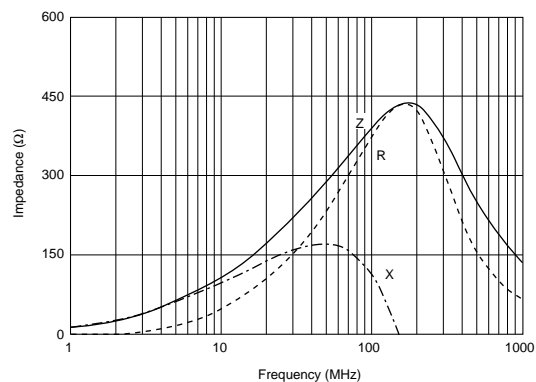
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## Impedance-Frequency Characteristics

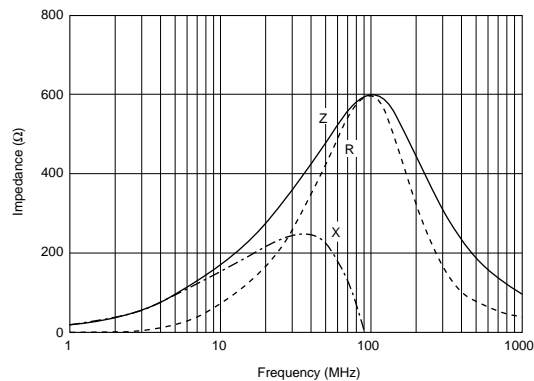
BLM31PG121SN1



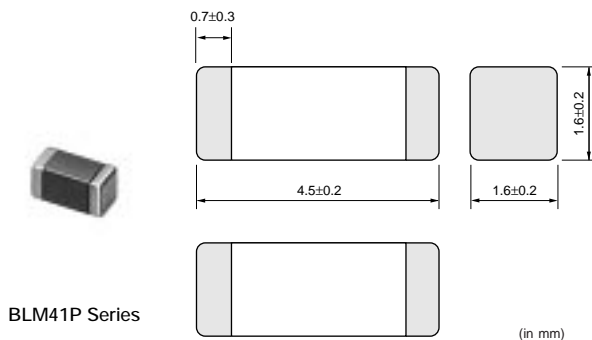
BLM31PG391SN1



BLM31PG601SN1



## BLM41P Series (1806 Size)

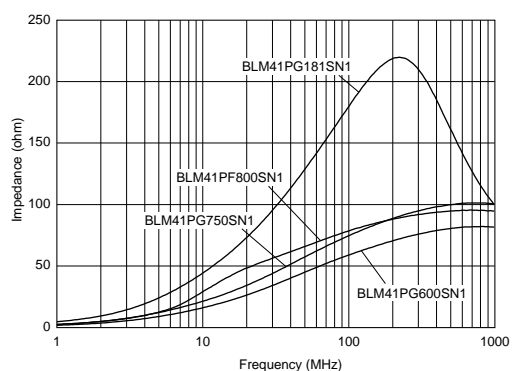


Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
<b>BLM41PG600SN1</b>	60 (Typ.)	6000	0.01	-55 to +125
<b>BLM41PG750SN1</b>	75 (Typ.)	3000	0.025	-55 to +125
<b>BLM41PG181SN1</b>	180 ±25%	3000	0.025	-55 to +125
<b>BLM41PG471SN1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

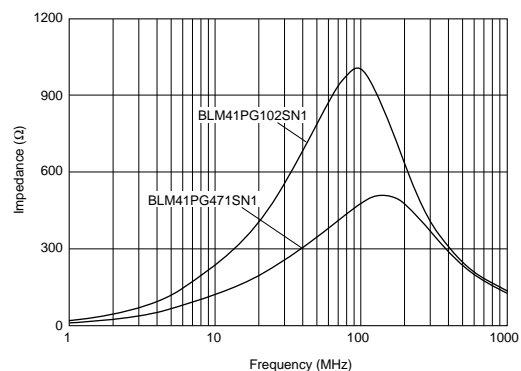
At rated current upper than 1500mA, derating is required.  
Please refer P. 53, "Derating of Rated Current".

### ■ Impedance-Frequency (Typical)

BLM41P Series (80-180ohm)

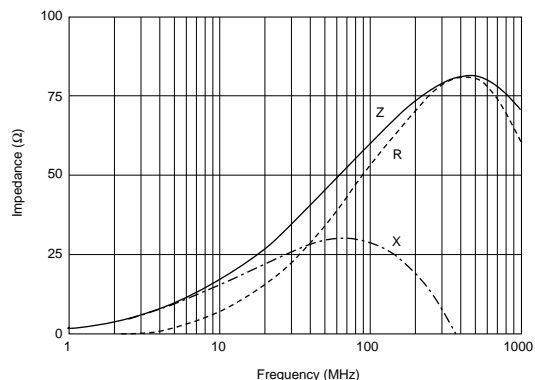


BLM41P Series (470-1000ohm)

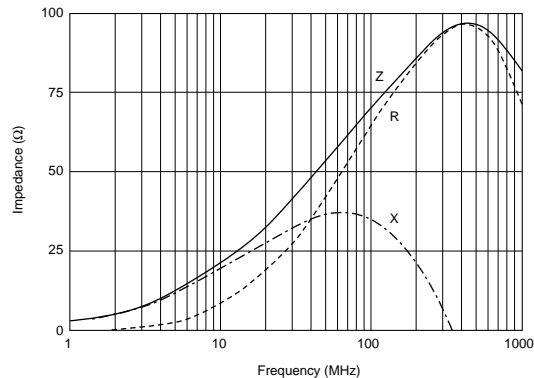


### ■ Impedance-Frequency Characteristics

BLM41PG600SN1



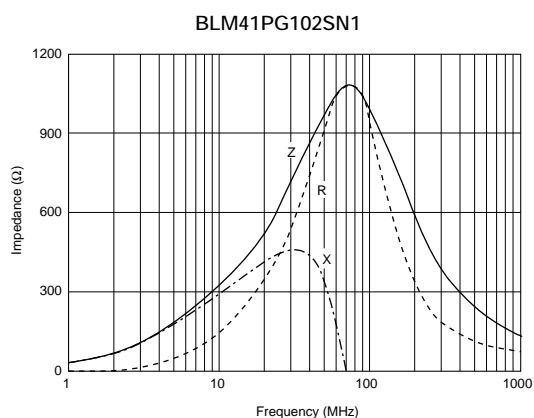
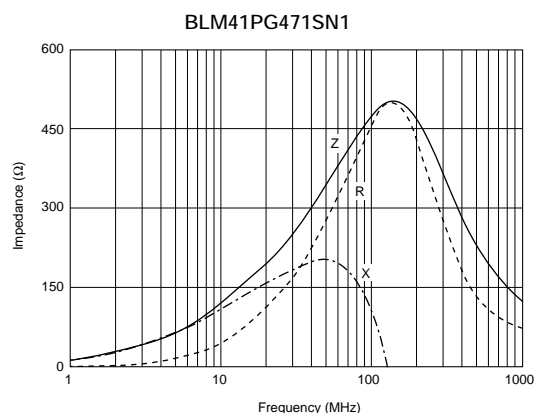
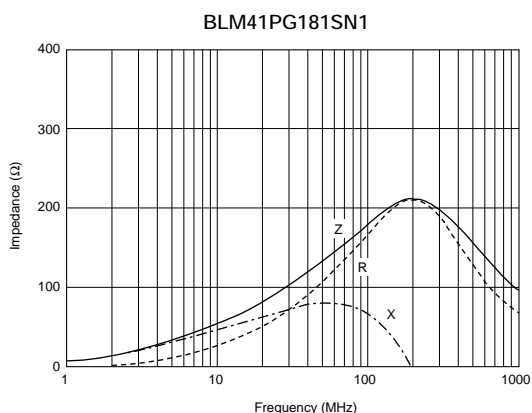
BLM41PG750SN1



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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.

### [Derating]

