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



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

Features (BLM_A 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.

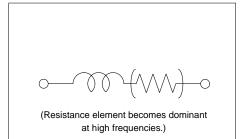
The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection to ground.

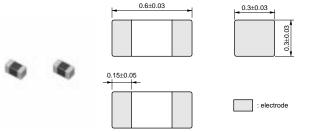
The nickel barrier structure of the external electrodes provides excellent solder heat resistance. BLM_A series generates an impedance from the relatively low frequencies. Therefore BLM_A series is effective in noise suppression in a wide frequency range (30MHz to several hundred MHz).

The small size of BLM03A series (0.6x0.3mm) is suitable for noise suppression in small equipment such as PA modules for cellular phones.

BLM03A Series (0201 Size)

Equivalent Circuit



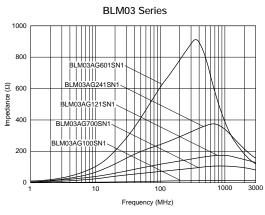


(in mm)

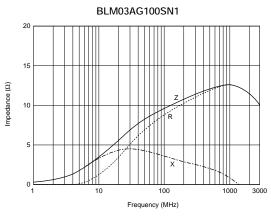
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM03AG100SN1	10 (Тур.)	500	0.1	-55 to +125
BLM03AG700SN1	70 (Тур.)	200	0.5	-55 to +125
BLM03AG121SN1	120 ±25%	200	0.8	-55 to +125
BLM03AG241SN1	240 ±25%	100	1.0	-55 to +125
BLM03AG601SN1	600 ±25%	100	2.0	-55 to +125

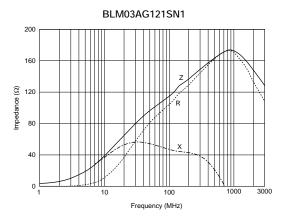


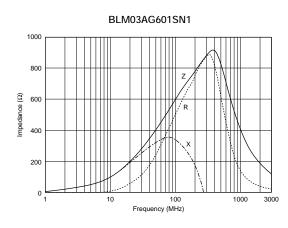
Impedance-Frequency (Typical)



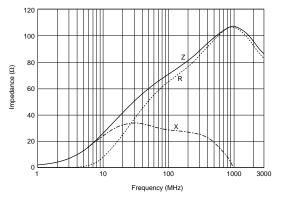
Impedance-Frequency Characteristics



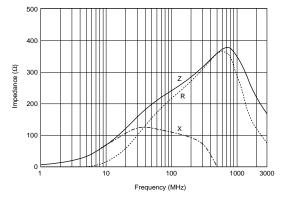




BLM03AG700SN1



BLM03AG241SN1

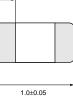






BLM15A Series (0402 Size)





0.25±0.1



BLM15A Series

(in mm)

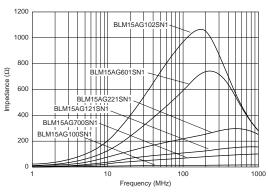
0.5±0.05

1

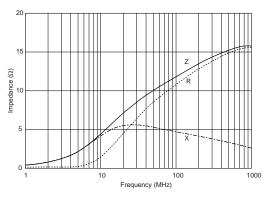
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM15AG100SN1	10 (Тур.)	1000	0.05	-55 to +125
BLM15AG700SN1	70 (Тур.)	500	0.15	-55 to +125
BLM15AG121SN1	120 ±25%	500	0.25	-55 to +125
BLM15AG221SN1	220 ±25%	300	0.35	-55 to +125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

■ Impedance-Frequency (Typical)

BLM15A Series







100 Z. R х

10

BLM15AG700SN1

120

80

60 40

20

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Impedance (Ω)

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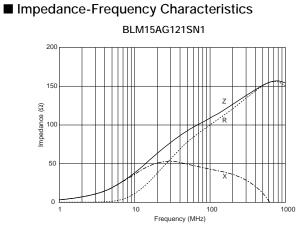
1000

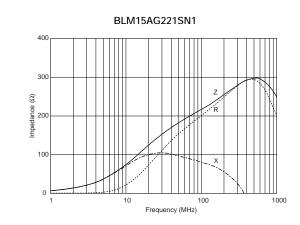
100

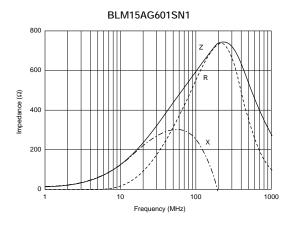
Frequency (MHz)



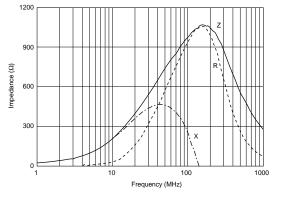
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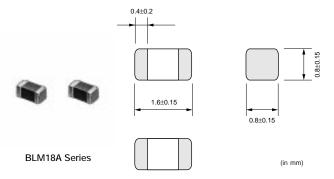






BLM18A Series (0603 Size)

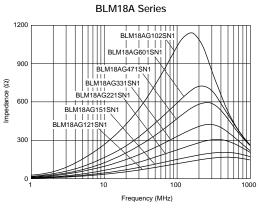




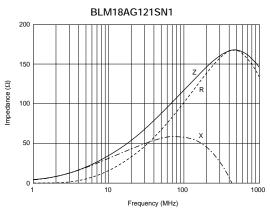
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM18AG121SN1	120 ±25%	200	0.20	-55 to +125
BLM18AG151SN1	150 ±25%	200	0.25	-55 to +125
BLM18AG221SN1	220 ±25%	200	0.30	-55 to +125
BLM18AG331SN1	330 ±25%	200	0.45	-55 to +125
BLM18AG471SN1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

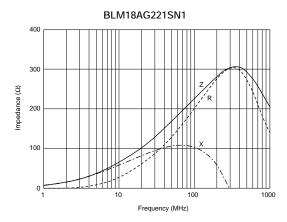


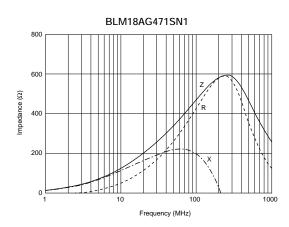
Impedance-Frequency (Typical)



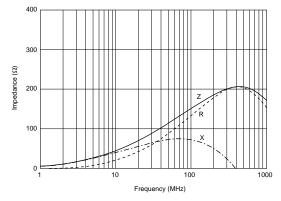
Impedance-Frequency Characteristics



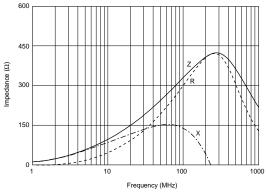


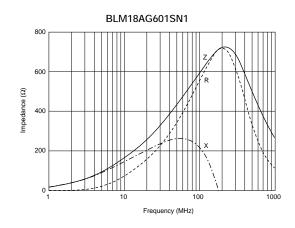


BLM18AG151SN1



BLM18AG331SN1

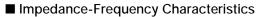


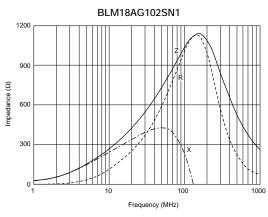




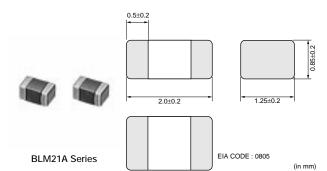
Note Please read rating and
CAUTION (for storage, operating, rating, soldering, mounting and handling) in this PDF catalog to prevent smoking and/or burning, etc.
This catalog has only typical specifications. Therefore, you are requested to approve our product specifications or to transact the approval sheet for product specifications before ordering.

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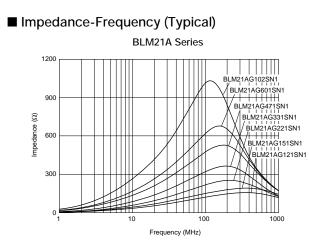




BLM21A Series (0805 Size)

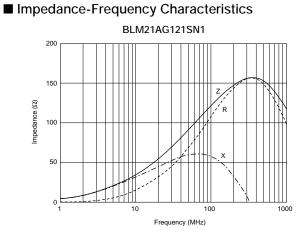


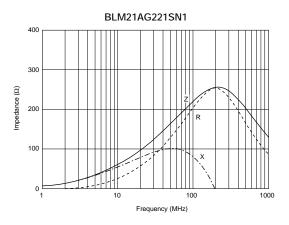
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21AG121SN1	120 ±25%	200	0.15	-55 to +125
BLM21AG151SN1	150 ±25%	200	0.15	-55 to +125
BLM21AG221SN1	220 ±25%	200	0.20	-55 to +125
BLM21AG331SN1	330 ±25%	200	0.25	-55 to +125
BLM21AG471SN1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

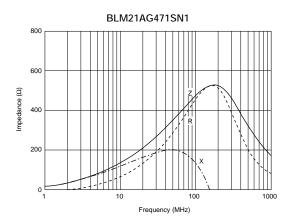


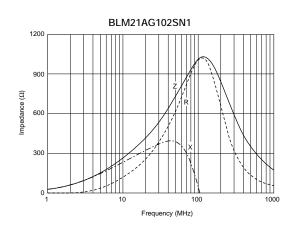


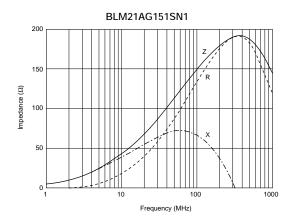
1











BLM21AG601SN1



BLM15A Series Gold Plating (0402 Size)

Features

- 1. Au plating for wire bonding mounting
- 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 to several hundred MHz).

Applications

- 1. Optical transceiver modules
- 2. Optical pickup modules





0.25±0.1

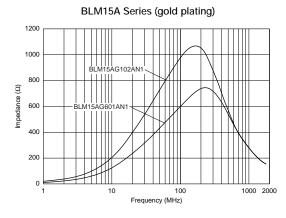


BLM15A Series (gold plating)

(in mm)

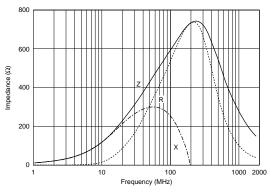
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM15AG601AN1	600 ±25%	300	0.6	-55 to +125
BLM15AG102AN1	1000 ±25%	200	1.0	-55 to +125

Impedance-Frequency (Typical)



Impedance-Frequency Characteristics

BLM15AG601AN1



BLM15AG102AN1

