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



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

■ Features (BLM_A Series)

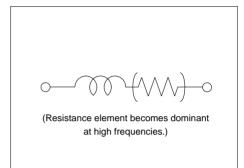
The chip ferrite beads BLM series comprises ferrite bead in the shape of a chip. This ferrite bead generates a high impedance which at high frequency mainly consists of a resistance element. The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection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

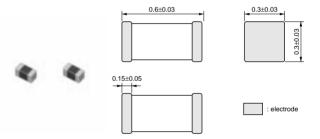
The nickel barrier structure of the external electrodes provides excellent solder heat resistance. BLM_A series generates an impedance from the relatively low frequencies. Therefore BLM_A series is effective in noise suppression in a wide frequency range (30MHz-several hundred MHz).

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

BLM03A Series (0201 Size)

Equivalent Circuit

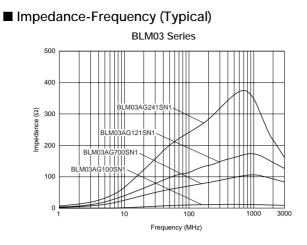




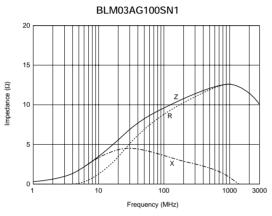
(in mm)

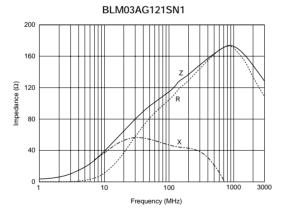
Part Number	Impedance (at 100MHz/20 degree C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM03AG100SN1	10 (Тур.)	500	0.1	-55 to +125
BLM03AG700SN1	70 (Тур.)	200	0.5	-55 to +125
BLM03AG121SN1	120 ±25%	200	0.8	-55 to +125
BLM03AG241SN1	240 ±25%	100	1.0	-55 to +125





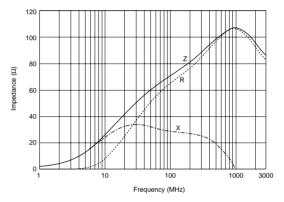
Impedance-Frequency Characteristics



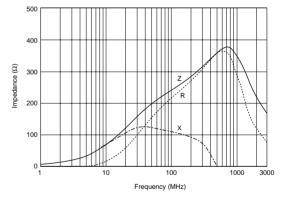


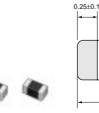
BLM15A Series (0402 Size)

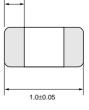
BLM03AG700SN1



BLM03AG241SN1









(in mm)

BLM15A Series



20

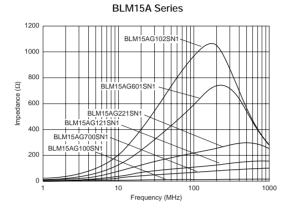
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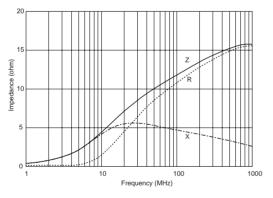
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Part Number	Impedance (at 100MHz/20 degree C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM15AG100SN1	10 (Тур.)	1000	0.05	-55 to +125
BLM15AG700SN1	70 (Тур.)	500	0.15	-55 to +125
BLM15AG121SN1	120 ±25%	500	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

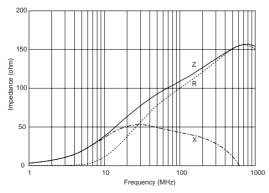
■ Impedance-Frequency (Typical)



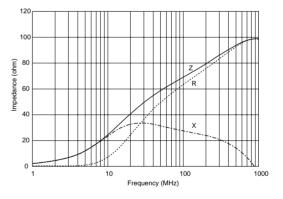
■ Impedance-Frequency Characteristics BLM15AG100SN1



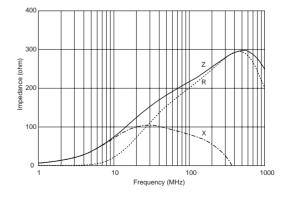
BLM15AG121SN1



BLM15AG700SN1



BLM15AG221SN1

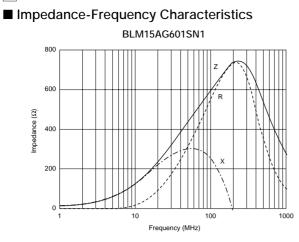


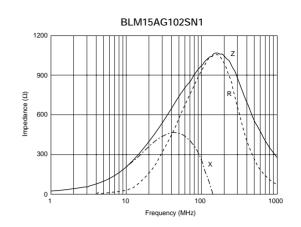
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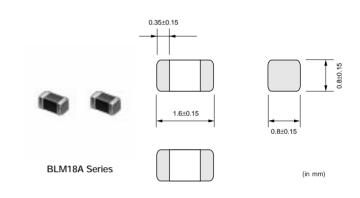
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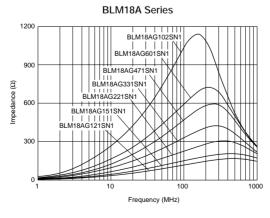


BLM18A Series (0603 Size)



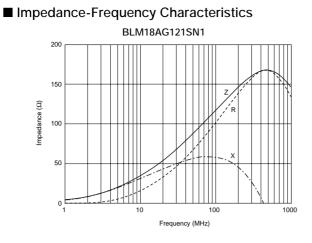
Part Number	Impedance (at 100MHz/20 degree C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM18AG121SN1	120 ±25%	200	0.20	-55 to +125
BLM18AG151SN1	150 ±25%	200	0.25	-55 to +125
BLM18AG221SN1	220 ±25%	200	0.30	-55 to +125
BLM18AG331SN1	330 ±25%	200	0.45	-55 to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

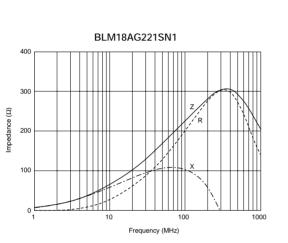
■ Impedance-Frequency (Typical)

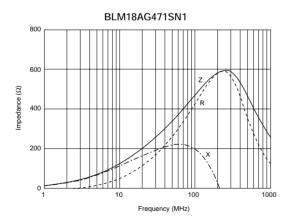


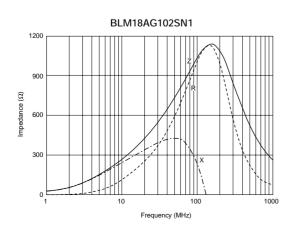


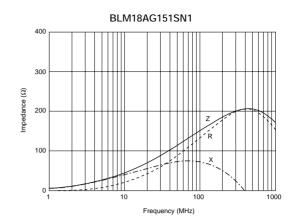
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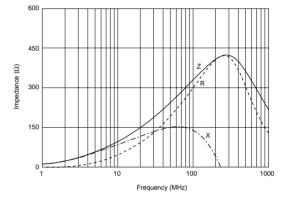


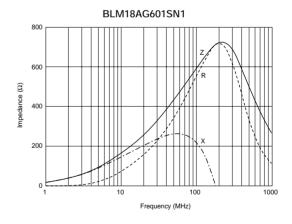






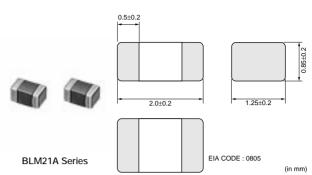
BLM18AG331SN1



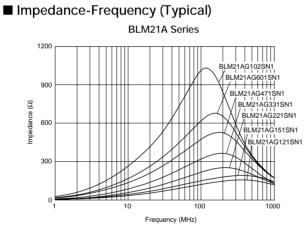




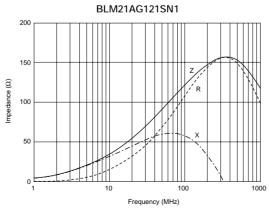
BLM21A Series (0805 Size)

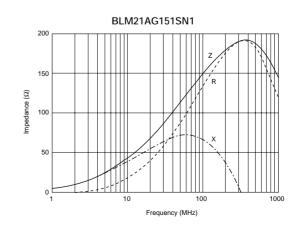


Part Number	Impedance (at 100MHz/20 degree C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21AG121SN1	120 ±25%	200	0.15	-55 to +125
BLM21AG151SN1	150 ±25%	200	0.15	-55 to +125
BLM21AG221SN1	220 ±25%	200	0.20	-55 to +125
BLM21AG331SN1	330 ±25%	200	0.25	-55 to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

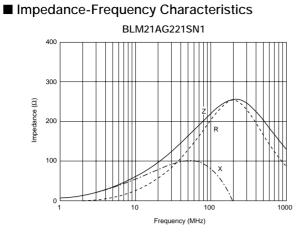


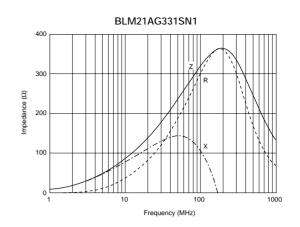


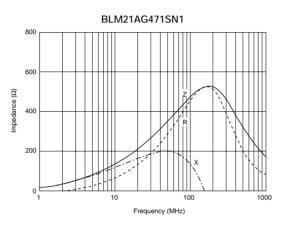
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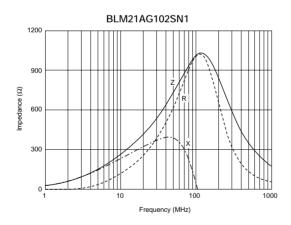


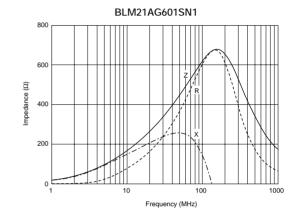
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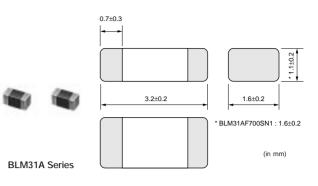




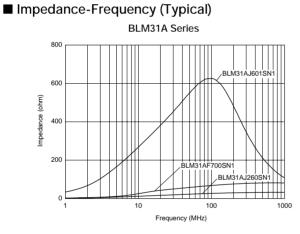


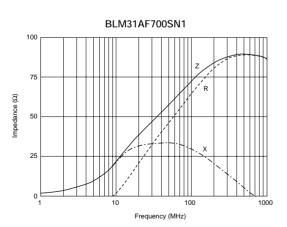
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BLM31A Series (1206 Size)

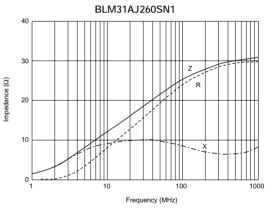


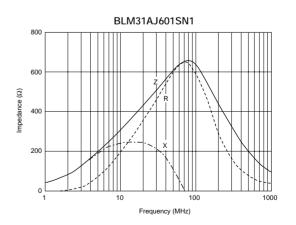
Part Number	Impedance (at 100MHz/20 degree C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM31AJ260SN1	26 ±25%	500	0.05	-55 to +125
BLM31AF700SN1	70 ±25%	200	0.15	-55 to +125
BLM31AJ601SN1	600 ±25%	200	0.90	-55 to +125





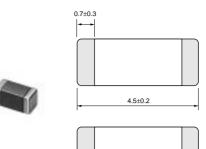
Impedance-Frequency Characteristics







BLM41A Series (1806 Size)





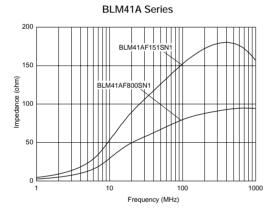
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BLM41A Series

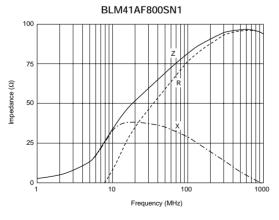
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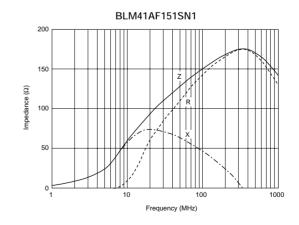
Part Number	Impedance (at 100MHz/20 degree C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM41AF800SN1	80 ±25%	500	0.10	-55 to +125
BLM41AF151SN1	150 ±25%	200	0.50	-55 to +125

■ Impedance-Frequency (Typical)



■ Impedance-Frequency Characteristics







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-several hundred MHz).



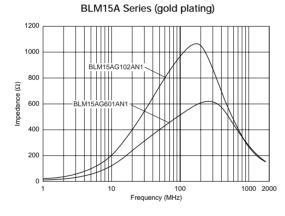
- 1. Optical transceiver modules
- 2. Optical pickup modules

BLM15A Series (gold plating)

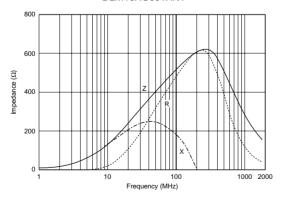
(in mm)

Part Number	Impedance (at 100MHz/20 degree 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

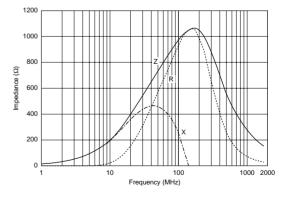
Impedance-Frequency (Typical)



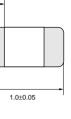
■ Impedance-Frequency Characteristics BLM15AG601AN1

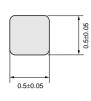


BLM15AG102AN1









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