SMD/BLOCK Type
EMI Suppression Filters

EMIFIL®



Murata
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Innovator in Electronics

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Mar.28,2011



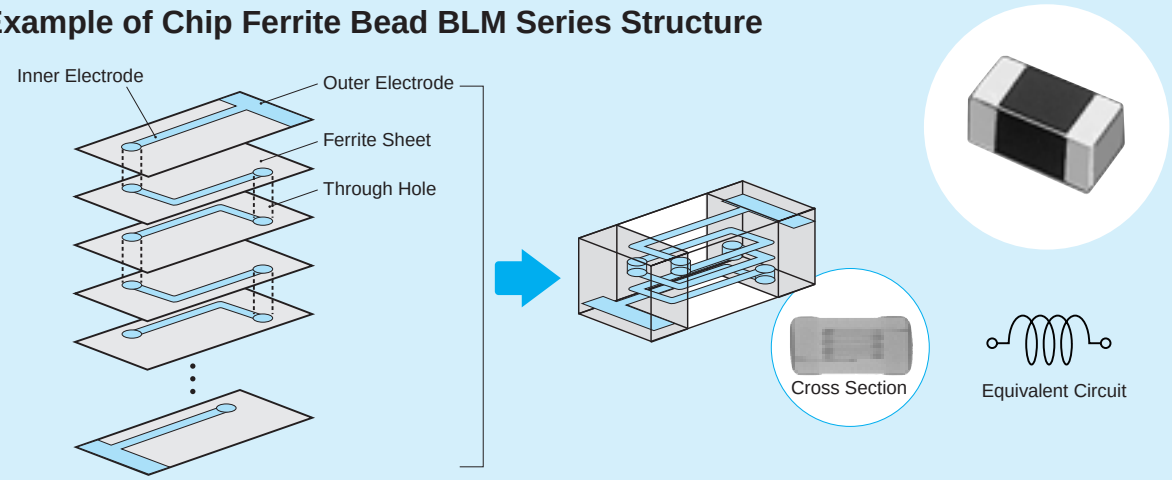
Chip Ferrite Bead

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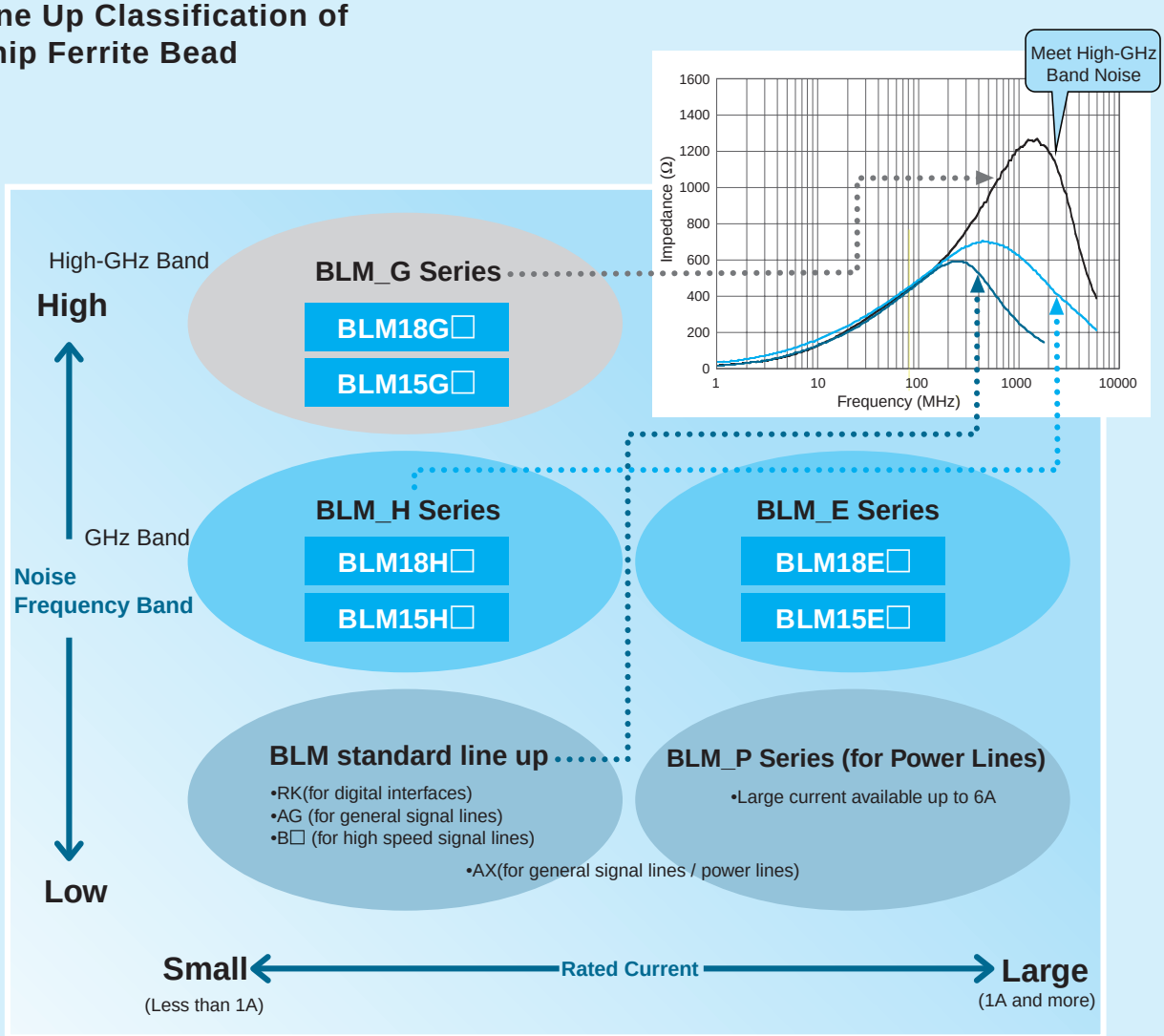
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BL□ Series Introduction

●Example of Chip Ferrite Bead BLM Series Structure



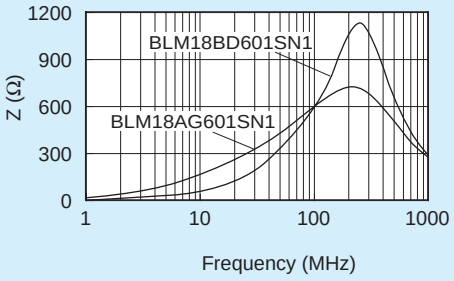
●Line Up Classification of Chip Ferrite Bead



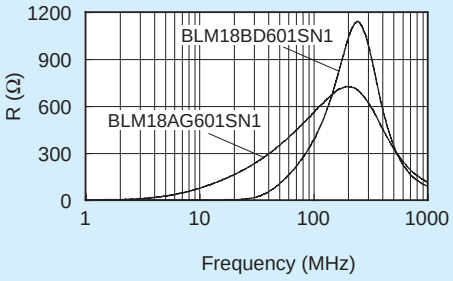
●Difference between BLM A type and B type (HG type vs HD/HB type)

A type: Impedance curve rises from low frequency range. Suppress noise in wide frequency range.
B type: Impedance curve rises sharply. Less damage to signal waveforms.

■Comparison of Impedance Curve

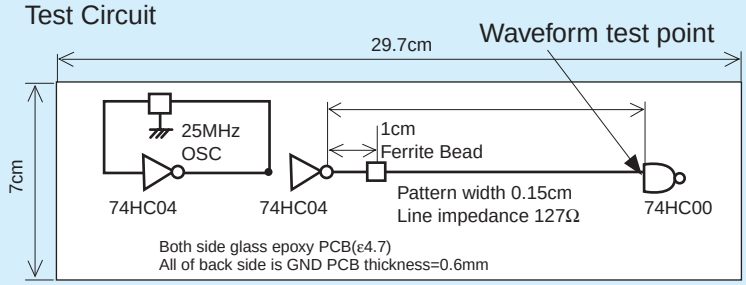


■Comparison of Resistance Element

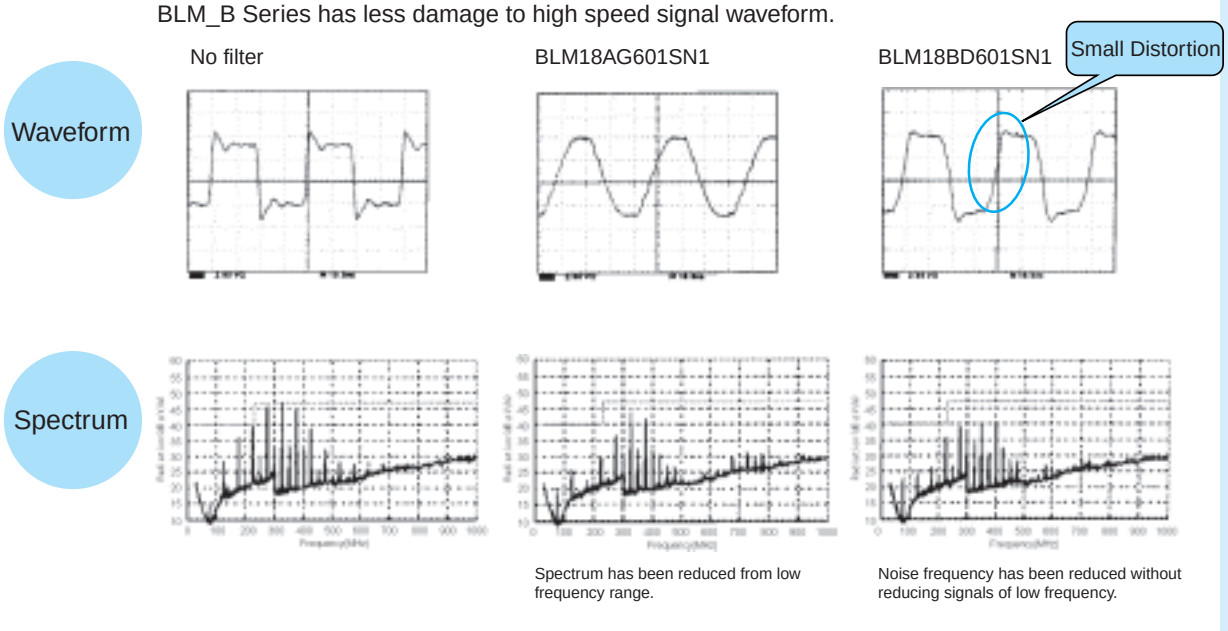


■Comparison of Test Effect (25MHz)

Test Circuit



BLM_B Series has less damage to high speed signal waveform.



Part Numbering

(Part Number)

BL	M	18	AG	102	S	N	1	D
❶	❷	❸	❹	❺	❻	❼	❽	❾

❶Product ID

Product ID	
BL	Chip Ferrite Beads

❷Type

Code	Type
A	Array Type
M	Ferrite Bead Single Type

❸Dimensions (L×W)

Code	Dimensions (L×W)	EIA
02	0.4×0.2mm	01005
03	0.6×0.3mm	0201
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
2A	2.0×1.0mm	0804
21	2.0×1.25mm	0805
31	3.2×1.6mm	1206
41	4.5×1.6mm	1806

❺Impedance

Expressed by three figures. The unit is in ohm (Ω) at 100MHz. The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two figures.

❻Electrode

Expressed by a letter.

Ex.)

Code	Electrode
S/T	Sn Plating
A	Au Plating

❼Category

Code	Category
N	Standard Type

❽Number of Circuits

Code	Number of Circuits
1	1 Circuit
4	4 Circuits

❹Characteristics/Applications

Code *1	Characteristics/Applications	Series
AG	for General Use	**BLM02/03/15/18/21, BLA2A/31**
AX		**BLM03/15**
TG		**BLM18**
BA	for High-speed Signal Lines	**BLM15/18**
BB		**BLM03/15/18/21, BLA2A**
BC		**BLM03/15**
BD		**BLM03/15/18/21, BLA2A/31**
PD	for Power Supplies	**BLM15**
PG		**BLM03/15/18/21/31/41**
PX		**BLM15**
KG	for Power Supplies (Low DC Resistance Type)	**BLM18**
SG		
RK	for Digital Interface	**BLM18/21**
HG	for GHz Band General Use	**BLM03/15/18**
EG	for GHz Band General Use (Low DC Resistance Type)	**BLM15/18**
HB	for GHz Band High-speed Signal Lines	**BLM15/18**
HD		**BLM03/15/18**
HE		**BLM18**
HK	for GHz Band Digital Interface	**BLM18**
GA	for High-GHz Band High-speed Signal Lines	**BLM15**
GG	for High-GHz Band General Use	**BLM15/18**

*1 Frequency characteristics vary with each code.

❾Packaging

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	**BLM21 *1/31/41**
L	Embossed Taping (ø180mm Reel)	
B	Bulk	All Series
J	Paper Taping (ø330mm Reel)	**BLM03/15/18 *3/21 *2, BLA2A/31**
D	Paper Taping (ø180mm Reel)	**BLM02/03/15/18/21 *2, BLA2A/31**

*1 BLM21BD222SN1/BLM21BD272SN1 only. *2 Except BLM21BD222SN1/BLM21BD272SN1

*3 Except BLM18T

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Size Code (Inch)	Thickness (mm)	Type	Part Number	Impedance at 100MHz/20°C	Impedance at 1GHz/20°C	Rated Current	New / Kit / ≥1A / ≥3A / GHz / HiGHz / Flow / ReFlow
	0.2	For General Signal Lines p46	BLM02AG100SN1	10ohm(Typ.)	-	500mA	Kit ReFlow
01005	0.2		BLM02AG700SN1	70ohm±25%	-	250mA	Kit ReFlow
	0.2		BLM02AG121SN1	120ohm±25%	-	200mA	Kit ReFlow
	0.3	For General Signal Lines p47	BLM03AG100SN1	10ohm(Typ.)	-	500mA	Kit ReFlow
	0.3		BLM03AG700SN1	70ohm(Typ.)	-	200mA	Kit ReFlow
	0.3		BLM03AG800SN1	80ohm±25%	-	200mA	Kit ReFlow
	0.3		BLM03AG121SN1	120ohm±25%	-	200mA	Kit ReFlow
	0.3		BLM03AG241SN1	240ohm±25%	-	200mA	Kit ReFlow
	0.3		BLM03AG601SN1	600ohm±25%	-	100mA	Kit ReFlow
	0.3		BLM03AG102SN1	1000ohm±25%	-	100mA	Kit ReFlow
	0.3	Universal Type [Power lines/Signal lines] p22	BLM03AX100SN1	10ohm(Typ.)	-	1000mA	Kit ≥1A ReFlow
	0.3		BLM03AX800SN1	80ohm±25%	-	500mA	Kit ReFlow
	0.3		BLM03AX121SN1	120ohm±25%	-	450mA	Kit ReFlow
	0.3		BLM03AX241SN1	240ohm±25%	-	350mA	Kit ReFlow
	0.3		BLM03AX601SN1	600ohm±25%	-	250mA	Kit ReFlow
	0.3		BLM03AX102SN1	1000ohm±25%	-	200mA	Kit ReFlow
	0.3	For High Speed Signal Lines (Sharp Impedance Curve) p57	BLM03BD750SN1	75ohm±25%	-	300mA	Kit ReFlow
	0.3		BLM03BD121SN1	120ohm±25%	-	250mA	Kit ReFlow
	0.3		BLM03BD241SN1	240ohm±25%	-	200mA	Kit ReFlow
0201	0.3		BLM03BD471SN1	470ohm±25%	-	215mA	Kit ReFlow
	0.3		BLM03BD601SN1	600ohm±25%	-	200mA	Kit ReFlow
	0.3		BLM03BB100SN1	10ohm±25%	-	300mA	Kit ReFlow
	0.3		BLM03BB220SN1	22ohm±25%	-	200mA	Kit ReFlow
	0.3		BLM03BB470SN1	47ohm±25%	-	200mA	Kit ReFlow
	0.3		BLM03BB750SN1	75ohm±25%	-	200mA	Kit ReFlow
	0.3		BLM03BB121SN1	120ohm±25%	-	100mA	Kit ReFlow
	0.3		BLM03BC330SN1	33ohm±25%	-	150mA	New Kit ReFlow
	0.3		BLM03BC560SN1	56ohm±25%	-	100mA	New Kit ReFlow
	0.3		BLM03BC800SN1	80ohm±25%	-	100mA	New Kit ReFlow
	0.3	For Power Lines p30	BLM03PG220SN1	22ohm±25%	-	900mA	Kit ReFlow
	0.3		BLM03PG330SN1	33ohm±25%	-	750mA	Kit ReFlow
	0.3	For GHz Band Noise: For General Signal Lines p75	BLM03HG601SN1	600ohm±25%	1000ohm±40%	150mA	Kit GHz ReFlow
	0.3		BLM03HG102SN1	1000ohm±25%	1800ohm±40%	125mA	Kit GHz ReFlow
	0.3	For GHz Band Noise: For High Speed Signal Lines p75	BLM03HD331SN1	330ohm±25%	-	200mA	New Kit GHz ReFlow
	0.3		BLM03HD471SN1	470ohm±25%	-	175mA	New Kit GHz ReFlow
	0.3		BLM03HD601SN1	600ohm±25%	-	150mA	New Kit GHz ReFlow
	0.3		BLM03HD102SN1	1000ohm±25%	-	120mA	New Kit GHz ReFlow
	0.5	For General Signal Lines p49	BLM15AG100SN1	10ohm(Typ.)	-	1000mA	Kit ≥1A ReFlow
	0.5		BLM15AG700SN1	70ohm(Typ.)	-	500mA	Kit ReFlow
	0.5		BLM15AG121SN1	120ohm±25%	-	500mA	Kit ReFlow
	0.5		BLM15AG221SN1	220ohm±25%	-	300mA	Kit ReFlow
	0.5		BLM15AG601SN1	600ohm±25%	-	300mA	Kit ReFlow
	0.5		BLM15AG102SN1	1000ohm±25%	-	200mA	Kit ReFlow
	0.5	p51	BLM15AG601AN1	600ohm±25%	-	300mA	
0402	0.5		BLM15AG102AN1	1000ohm±25%	-	200mA	
	0.5	Universal Type [Power lines/Signal lines] p24	BLM15AX100SN1	10ohm(Typ.)	-	1740mA	Kit ≥1A ReFlow
	0.5		BLM15AX300SN1	30ohm±25%	-	1100mA	New Kit ≥1A ReFlow
	0.5		BLM15AX700SN1	70ohm±25%	-	780mA	Kit ReFlow
	0.5		BLM15AX121SN1	120ohm±25%	-	680mA	Kit ReFlow
	0.5		BLM15AX221SN1	220ohm±25%	-	580mA	Kit ReFlow
	0.5		BLM15AX601SN1	600ohm±25%	-	420mA	Kit ReFlow
	0.5		BLM15AX102SN1	1000ohm±25%	-	350mA	Kit ReFlow

Continued on the following page.

Size Code (Inch)	Thickness (mm)	Type		Part Number	Impedance at 100MHz/20°C	Impedance at 1GHz/20°C	Rated Current	New / Kit / ≥1A / ≥3A / GHz / Hi-GHz / Flow / ReFlow
0402	0.5	For High Speed Signal Lines (Sharp Impedance Curve)	p59	BLM15BD750SN1	75ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BD121SN1	120ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BD221SN1	220ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BD471SN1	470ohm±25%	-	200mA	Kit ReFlow
	0.5			BLM15BD601SN1	600ohm±25%	-	200mA	Kit ReFlow
	0.5			BLM15BD102SN1	1000ohm±25%	-	200mA	Kit ReFlow
	0.5			BLM15BD182SN1	1800ohm±25%	-	100mA	Kit ReFlow
	0.5			BLM15BB050SN1	5ohm±25%	-	500mA	Kit ReFlow
	0.5			BLM15BB100SN1	10ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BB220SN1	22ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BB470SN1	47ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BB750SN1	75ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BB121SN1	120ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BB221SN1	220ohm±25%	-	200mA	Kit ReFlow
	0.5			BLM15BC121SN1	120ohm±25%	-	350mA	Kit ReFlow
	0.5			BLM15BC241SN1	240ohm±25%	-	250mA	Kit ReFlow
	0.5			BLM15BA050SN1	5ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BA100SN1	10ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BA220SN1	22ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BA330SN1	33ohm±25%	-	300mA	Kit ReFlow
	0.5			BLM15BA470SN1	47ohm±25%	-	200mA	Kit ReFlow
	0.5			BLM15BA750SN1	75ohm±25%	-	200mA	Kit ReFlow
	0.5	For Power Lines	p31	BLM15PX121SN1	120ohm±25%	-	1800mA	New Kit ≥1A ReFlow
	0.5		p32	BLM15PG100SN1	10ohm(Typ.)	-	1000mA	Kit ≥1A ReFlow
	0.5			BLM15PD300SN1	30ohm±25%	-	2200mA	Kit ≥1A ReFlow
	0.5			BLM15PD600SN1	60ohm±25%	-	1700mA	Kit ≥1A ReFlow
	0.5			BLM15PD800SN1	80ohm±25%	-	1500mA	Kit ≥1A ReFlow
	0.5			BLM15PD121SN1	120ohm±25%	-	1300mA	Kit ≥1A ReFlow
	0.5	For GHz Band Noise	p77 For General Signal Lines	BLM15HG601SN1	600ohm±25%	1000ohm±40%	300mA	Kit GHz ReFlow
	0.5			BLM15HG102SN1	1000ohm±25%	1400ohm±40%	250mA	Kit GHz ReFlow
	0.5		p77 For High Speed Signal Lines (Sharp Impedance Curve)	BLM15HD601SN1	600ohm±25%	1400ohm±40%	300mA	Kit GHz ReFlow
	0.5			BLM15HD102SN1	1000ohm±25%	2000ohm±40%	250mA	Kit GHz ReFlow
	0.5			BLM15HD182SN1	1800ohm±25%	2700ohm±40%	200mA	Kit GHz ReFlow
	0.5			BLM15HB121SN1	120ohm±25%	500ohm±40%	300mA	Kit GHz ReFlow
	0.5			BLM15HB221SN1	220ohm±25%	900ohm±40%	250mA	Kit GHz ReFlow
	0.5		Universal Type [Power Lines/Signal Lines] p27	BLM15EG121SN1	120ohm±25%	145ohm(Typ.)	1500mA	Kit ≥1A GHz ReFlow
	0.5			BLM15EG221SN1	220ohm±25%	270ohm(Typ.)	700mA	Kit GHz ReFlow
	0.5	For High-GHz Band Noise	p83 For General Signal Lines	BLM15GG221SN1	220ohm±25%	600ohm±40%	300mA	Kit Hi-GHz ReFlow
	0.5			BLM15GG471SN1	470ohm±25%	1200ohm±40%	200mA	Kit Hi-GHz ReFlow
	0.5		For High Speed Signal Lines p83	BLM15GA750SN1	75ohm±25%	1000ohm±40%	200mA	Kit Hi-GHz ReFlow
0603	0.8	For General Signal Lines	p52	BLM18AG121SN1	120ohm±25%	-	500mA	Kit Flow ReFlow
	0.8			BLM18AG151SN1	150ohm±25%	-	500mA	Kit Flow ReFlow
	0.8			BLM18AG221SN1	220ohm±25%	-	500mA	Kit Flow ReFlow
	0.8			BLM18AG331SN1	330ohm±25%	-	500mA	Kit Flow ReFlow
	0.8			BLM18AG471SN1	470ohm±25%	-	500mA	Kit Flow ReFlow
	0.8			BLM18AG601SN1	600ohm±25%	-	500mA	Kit Flow ReFlow
	0.8			BLM18AG102SN1	1000ohm±25%	-	400mA	Kit Flow ReFlow
	0.6		p56	BLM18TG121TN1	120ohm±25%	-	200mA	Flow ReFlow
	0.6			BLM18TG221TN1	220ohm±25%	-	200mA	Flow ReFlow
	0.6			BLM18TG601TN1	600ohm±25%	-	200mA	Flow ReFlow
	0.6			BLM18TG102TN1	1000ohm±25%	-	100mA	Flow ReFlow

Continued on the following page.

Size Code (Inch)	Thickness (mm)	Type		Part Number	Impedance at 100MHz/20°C	Impedance at 1GHz/20°C	Rated Current	New / Kit / ≥1A / ≥3A / GHz / Hi-GHz	Flow / ReFlow
0603	0.8	For High Speed Signal Lines (Sharp Impedance Curve)	p63	BLM18BD470SN1	47ohm±25%	-	500mA	Kit	Flow ReFlow
	0.8			BLM18BD121SN1	120ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18BD151SN1	150ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18BD221SN1	220ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18BD331SN1	330ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18BD421SN1	420ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18BD471SN1	470ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18BD601SN1	600ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18BD102SN1	1000ohm±25%	-	100mA	Kit	Flow ReFlow
	0.8			BLM18BD152SN1	1500ohm±25%	-	50mA	Kit	Flow ReFlow
	0.8			BLM18BD182SN1	1800ohm±25%	-	50mA	Kit	Flow ReFlow
	0.8			BLM18BD222SN1	2200ohm±25%	-	50mA	Kit	Flow ReFlow
	0.8			BLM18BD252SN1	2500ohm±25%	-	50mA	Kit	Flow ReFlow
	0.8			BLM18BB050SN1	5ohm±25%	-	700mA	Kit	Flow ReFlow
	0.8			BLM18BB100SN1	10ohm±25%	-	700mA	Kit	Flow ReFlow
	0.8			BLM18BB220SN1	22ohm±25%	-	600mA	Kit	Flow ReFlow
	0.8			BLM18BB470SN1	47ohm±25%	-	550mA	Kit	Flow ReFlow
	0.8			BLM18BB600SN1	60ohm±25%	-	550mA	Kit	Flow ReFlow
	0.8			BLM18BB750SN1	75ohm±25%	-	500mA	Kit	Flow ReFlow
	0.8			BLM18BB121SN1	120ohm±25%	-	500mA	Kit	Flow ReFlow
	0.8			BLM18BB141SN1	140ohm±25%	-	450mA		Flow ReFlow
	0.8			BLM18BB151SN1	150ohm±25%	-	450mA	Kit	Flow ReFlow
	0.8			BLM18BB221SN1	220ohm±25%	-	450mA	Kit	Flow ReFlow
	0.8			BLM18BB331SN1	330ohm±25%	-	400mA	Kit	Flow ReFlow
	0.8			BLM18BB471SN1	470ohm±25%	-	300mA	Kit	Flow ReFlow
	0.8			BLM18BA050SN1	5ohm±25%	-	500mA	Kit	Flow ReFlow
	0.8			BLM18BA100SN1	10ohm±25%	-	500mA	Kit	Flow ReFlow
	0.8			BLM18BA220SN1	22ohm±25%	-	500mA		Flow ReFlow
	0.8			BLM18BA470SN1	47ohm±25%	-	300mA	Kit	Flow ReFlow
	0.8			BLM18BA750SN1	75ohm±25%	-	300mA	Kit	Flow ReFlow
	0.8			BLM18BA121SN1	120ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8	For Digital Interface Lines	p70	BLM18RK121SN1	120ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18RK221SN1	220ohm±25%	-	200mA		Flow ReFlow
	0.8			BLM18RK471SN1	470ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18RK601SN1	600ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8			BLM18RK102SN1	1000ohm±25%	-	200mA	Kit	Flow ReFlow
	0.8	For Power Lines	Standard Type p34	BLM18PG300SN1	30ohm(Typ.)	-	1000mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18PG330SN1	33ohm±25%	-	3000mA	Kit ≥3A	Flow ReFlow
	0.8			BLM18PG600SN1	60ohm(Typ.)	-	500mA	Kit	Flow ReFlow
	0.8			BLM18PG121SN1	120ohm±25%	-	2000mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18PG181SN1	180ohm±25%	-	1500mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18PG221SN1	220ohm±25%	-	1400mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18PG331SN1	330ohm±25%	-	1200mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18PG471SN1	470ohm±25%	-	1000mA	Kit ≥1A	Flow ReFlow
	0.6		Low DC Resistance Type p42	BLM18KG260TN1	26ohm±25%	-	6000mA	Kit ≥3A	Flow ReFlow
	0.6			BLM18KG300TN1	30ohm±25%	-	5000mA	Kit ≥3A	Flow ReFlow
	0.6			BLM18KG700TN1	70ohm±25%	-	3500mA	Kit ≥3A	Flow ReFlow
	0.6			BLM18KG101TN1	100ohm±25%	-	3000mA	Kit ≥3A	Flow ReFlow
	0.6			BLM18KG121TN1	120ohm±25%	-	3000mA	Kit ≥3A	Flow ReFlow
	0.8			BLM18KG221SN1	220ohm±25%	-	2200mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18KG331SN1	330ohm±25%	-	1700mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18KG471SN1	470ohm±25%	-	1500mA	Kit ≥1A	Flow ReFlow
	0.8			BLM18KG601SN1	600ohm±25%	-	1300mA	Kit ≥1A	Flow ReFlow
	0.5		p44	BLM18SG260TN1	26ohm±25%	-	6000mA	Kit ≥3A	Flow ReFlow
	0.5			BLM18SG700TN1	70ohm±25%	-	4000mA	Kit ≥3A	Flow ReFlow
	0.5			BLM18SG121TN1	120ohm±25%	-	3000mA	Kit ≥3A	Flow ReFlow
	0.5			BLM18SG221TN1	220ohm±25%	-	2500mA	Kit ≥1A	Flow ReFlow
	0.5			BLM18SG331TN1	330ohm±25%	-	1500mA	Kit ≥1A	Flow ReFlow

Continued on the following page.

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Size Code (Inch)	Thickness (mm)	Type		Part Number	Impedance at 100MHz/20°C	Impedance at 1GHz/20°C	Rated Current	New / Kit / ≥1A / ≥3A / GHz / Hi-GHz / Flow / ReFlow
0603	0.8	For GHz Band Noise	p79 For General Signal Lines	BLM18HG471SN1	470ohm±25%	600ohm(Typ.)	200mA	Kit GHz Flow ReFlow
	0.8			BLM18HG601SN1	600ohm±25%	700ohm(Typ.)	200mA	Kit GHz Flow ReFlow
	0.8			BLM18HG102SN1	1000ohm±25%	1000ohm(Typ.)	100mA	Kit GHz Flow ReFlow
	0.8		p79 For High Speed Signal Lines (Sharp Impedance Curve)	BLM18HE601SN1	600ohm±25%	600ohm(Typ.)	800mA	Kit GHz Flow ReFlow
	0.8			BLM18HE102SN1	1000ohm±25%	1000ohm(Typ.)	600mA	Kit GHz Flow ReFlow
	0.8			BLM18HE152SN1	1500ohm±25%	1500ohm(Typ.)	500mA	Kit GHz Flow ReFlow
	0.8			BLM18HD471SN1	470ohm±25%	1000ohm(Typ.)	100mA	Kit GHz Flow ReFlow
	0.8			BLM18HD601SN1	600ohm±25%	1200ohm(Typ.)	100mA	Kit GHz Flow ReFlow
	0.8			BLM18HD102SN1	1000ohm±25%	1700ohm(Typ.)	50mA	Kit GHz Flow ReFlow
	0.8			BLM18HB121SN1	120ohm±25%	500ohm±40%	200mA	Kit GHz Flow ReFlow
	0.8			BLM18HB221SN1	220ohm±25%	1100ohm±40%	100mA	Kit GHz Flow ReFlow
	0.8			BLM18HB331SN1	330ohm±25%	1600ohm±40%	50mA	Kit GHz Flow ReFlow
	0.8		p79 For Digital Interface Lines	BLM18HK331SN1	330ohm±25%	400ohm±40%	200mA	Kit GHz Flow ReFlow
	0.8			BLM18HK471SN1	470ohm±25%	600ohm±40%	200mA	Kit GHz Flow ReFlow
	0.8			BLM18HK601SN1	600ohm±25%	700ohm±40%	100mA	Kit GHz Flow ReFlow
	0.8			BLM18HK102SN1	1000ohm±25%	1200ohm±40%	50mA	Kit GHz Flow ReFlow
	0.5		p28 Universal Type [Power lines/ Signal lines]	BLM18EG101TN1	100ohm±25%	140ohm(Typ.)	2000mA	Kit ≥1A GHz Flow ReFlow
	0.8			BLM18EG121SN1	120ohm±25%	145ohm(Typ.)	2000mA	Kit ≥1A GHz Flow ReFlow
	0.8			BLM18EG221SN1	220ohm±25%	260ohm(Typ.)	2000mA	Kit ≥1A GHz Flow ReFlow
	0.5			BLM18EG221TN1	220ohm±25%	300ohm(Typ.)	1000mA	Kit ≥1A GHz Flow ReFlow
	0.5			BLM18EG331TN1	330ohm±25%	450ohm(Typ.)	500mA	Kit GHz Flow ReFlow
	0.5			BLM18EG391TN1	390ohm±25%	520ohm(Typ.)	500mA	Kit GHz Flow ReFlow
	0.8			BLM18EG471SN1	470ohm±25%	550ohm(Typ.)	500mA	Kit GHz Flow ReFlow
	0.8			BLM18EG601SN1	600ohm±25%	700ohm(Typ.)	500mA	Kit GHz Flow ReFlow
	0.8	For High-GHz Band Noise	p84	BLM18GG471SN1	470ohm±25%	1800ohm±30%	200mA	Kit Hi-GHz ReFlow
0805	0.85	For General Signal Lines	p54	BLM21AG121SN1	120ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21AG151SN1	150ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21AG221SN1	220ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21AG331SN1	330ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21AG471SN1	470ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21AG601SN1	600ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21AG102SN1	1000ohm±25%	-	200mA	Kit Flow ReFlow
	0.85	For High Speed Signal Lines (Sharp Impedance Curve)	p67	BLM21BD121SN1	120ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD151SN1	150ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21BD221SN1	220ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD331SN1	330ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21BD421SN1	420ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD471SN1	470ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD601SN1	600ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD751SN1	750ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21BD102SN1	1000ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD152SN1	1500ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD182SN1	1800ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BD222TN1	2200ohm±25%	-	200mA	Kit Flow ReFlow
	1.25			BLM21BD222SN1	2250ohm(Typ.)	-	200mA	Kit Flow ReFlow
	1.25			BLM21BD272SN1	2700ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BB050SN1	5ohm±25%	-	500mA	Kit Flow ReFlow
	0.85			BLM21BB600SN1	60ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BB750SN1	75ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BB121SN1	120ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BB151SN1	150ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21BB201SN1	200ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21BB221SN1	220ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BB331SN1	330ohm±25%	-	200mA	Kit Flow ReFlow
	0.85			BLM21BB471SN1	470ohm±25%	-	200mA	Kit Flow ReFlow
	0.85	For Digital Interface Lines	p72	BLM21RK121SN1	120ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21RK221SN1	220ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21RK471SN1	470ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21RK601SN1	600ohm±25%	-	200mA	Flow ReFlow
	0.85			BLM21RK102SN1	1000ohm±25%	-	200mA	Flow ReFlow

Continued on the following page.

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Size Code (Inch)	Thickness (mm)	Type	Part Number	Impedance at 100MHz/20°C	Impedance at 1GHz/20°C	Rated Current	New / Kit / ≧1A / ≧3A / GHz / HiGHz / Flow / ReFlow
0805	0.85	For Power Lines p36	BLM21PG220SN1	22ohm±25%	-	6000mA	Kit ≧3A Flow ReFlow
	0.85		BLM21PG300SN1	30ohm(Typ.)	-	3000mA	Kit ≧3A Flow ReFlow
	0.85		BLM21PG600SN1	60ohm±25%	-	3000mA	Kit ≧3A Flow ReFlow
	0.85		BLM21PG121SN1	120ohm±25%	-	3000mA	Kit ≧3A Flow ReFlow
	0.85		BLM21PG221SN1	220ohm±25%	-	2000mA	Kit ≧1A Flow ReFlow
	0.85		BLM21PG331SN1	330ohm±25%	-	1500mA	Kit ≧1A Flow ReFlow
1206	1.1	For Power Lines p38	BLM31PG330SN1	33ohm±25%	-	6000mA	Kit ≧3A Flow ReFlow
	1.1		BLM31PG500SN1	50ohm(Typ.)	-	3000mA	Kit ≧3A Flow ReFlow
	1.1		BLM31PG121SN1	120ohm±25%	-	3000mA	Kit ≧3A Flow ReFlow
	1.1		BLM31PG391SN1	390ohm±25%	-	2000mA	Kit ≧1A Flow ReFlow
	1.1		BLM31PG601SN1	600ohm±25%	-	1500mA	Kit ≧1A Flow ReFlow
1806	1.6	For Power Lines p40	BLM41PG600SN1	60ohm(Typ.)	-	6000mA	Kit ≧3A Flow ReFlow
	1.6		BLM41PG750SN1	75ohm(Typ.)	-	3000mA	Kit ≧3A Flow ReFlow
	1.6		BLM41PG181SN1	180ohm±25%	-	3000mA	Kit ≧3A Flow ReFlow
	1.6		BLM41PG471SN1	470ohm±25%	-	2000mA	Kit ≧1A Flow ReFlow
	1.6		BLM41PG102SN1	1000ohm±25%	-	1500mA	Kit ≧1A Flow ReFlow
0804	0.5	For General Signal Lines p85	BLA2AAG121SN4	120ohm±25%	-	100mA	ReFlow
	0.5		BLA2AAG221SN4	220ohm±25%	-	50mA	ReFlow
	0.5		BLA2AAG601SN4	600ohm±25%	-	50mA	ReFlow
	0.5		BLA2AAG102SN4	1000ohm±25%	-	50mA	ReFlow
	0.5	For High Speed Signal Lines p85	BLA2ABB100SN4	10ohm±25%	-	200mA	ReFlow
	0.5		BLA2ABB220SN4	22ohm±25%	-	200mA	ReFlow
	0.5		BLA2ABB470SN4	47ohm±25%	-	200mA	ReFlow
	0.5		BLA2ABB121SN4	120ohm±25%	-	50mA	ReFlow
	0.5		BLA2ABB221SN4	220ohm±25%	-	50mA	ReFlow
	0.5		BLA2ABD750SN4	75ohm±25%	-	200mA	ReFlow
	0.5		BLA2ABD121SN4	120ohm±25%	-	200mA	ReFlow
	0.5		BLA2ABD221SN4	220ohm±25%	-	100mA	ReFlow
	0.5		BLA2ABD471SN4	470ohm±25%	-	100mA	ReFlow
	0.5		BLA2ABD601SN4	600ohm±25%	-	100mA	ReFlow
	0.5		BLA2ABD102SN4	1000ohm±25%	-	50mA	ReFlow
1206	0.8	For General Signal Lines p88	BLA31AG300SN4	30ohm±25%	-	200mA	Flow ReFlow
	0.8		BLA31AG600SN4	60ohm±25%	-	200mA	Flow ReFlow
	0.8		BLA31AG121SN4	120ohm±25%	-	150mA	Flow ReFlow
	0.8		BLA31AG221SN4	220ohm±25%	-	150mA	Flow ReFlow
	0.8		BLA31AG601SN4	600ohm±25%	-	100mA	Flow ReFlow
	0.8		BLA31AG102SN4	1000ohm±25%	-	50mA	Flow ReFlow
	0.8	For High Speed Signal Lines p88	BLA31BD121SN4	120ohm±25%	-	150mA	Flow ReFlow
	0.8		BLA31BD221SN4	220ohm±25%	-	150mA	Flow ReFlow
	0.8		BLA31BD471SN4	470ohm±25%	-	100mA	Flow ReFlow
	0.8		BLA31BD601SN4	600ohm±25%	-	100mA	Flow ReFlow
	0.8		BLA31BD102SN4	1000ohm±25%	-	50mA	Flow ReFlow

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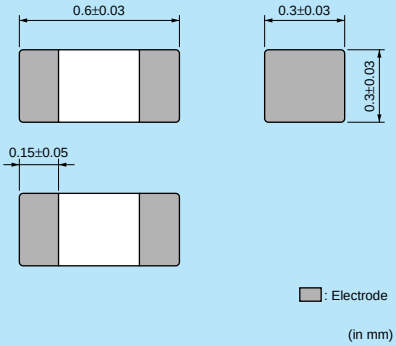
BLM03AX Series (0201 Size)

Hi Power Reflow OK

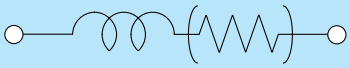
High Spec Ferrite Bead Ultra low dc resistance and wide impedance line up. Fit for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	15000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

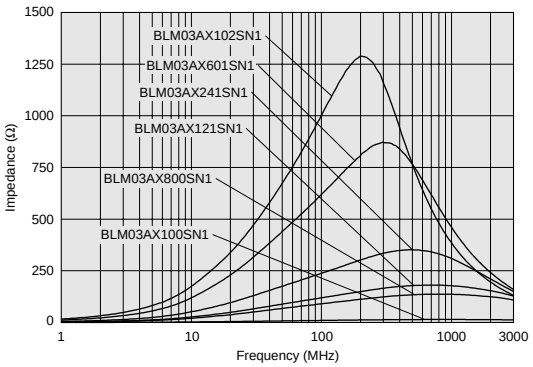
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM03AX100SN1☐	10ohm(Typ.)	1000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM03AX800SN1☐	80ohm±25%	500mA	0.18ohm max.	-55°C to +125°C	Kit
BLM03AX121SN1☐	120ohm±25%	450mA	0.23ohm max.	-55°C to +125°C	Kit
BLM03AX241SN1☐	240ohm±25%	350mA	0.38ohm max.	-55°C to +125°C	Kit
BLM03AX601SN1☐	600ohm±25%	250mA	0.85ohm max.	-55°C to +125°C	Kit
BLM03AX102SN1☐	1000ohm±25%	200mA	1.25ohm max.	-55°C to +125°C	Kit

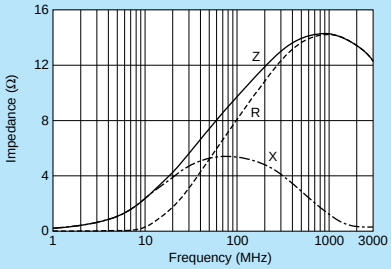
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

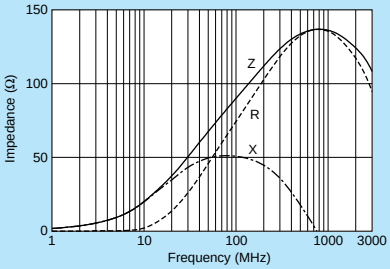


■ Impedance-Frequency Characteristics

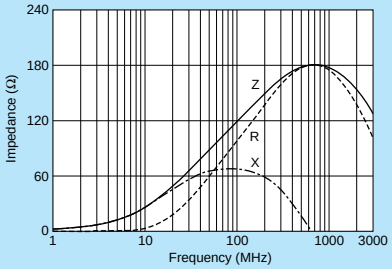
BLM03AX100SN1



BLM03AX800SN1



BLM03AX121SN1

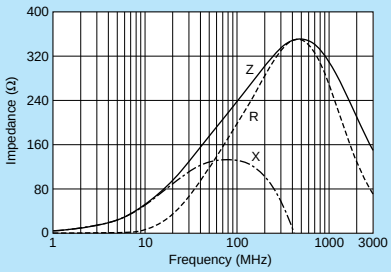


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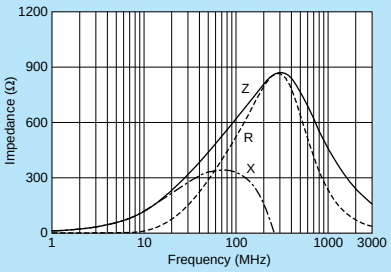
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■ Impedance-Frequency Characteristics

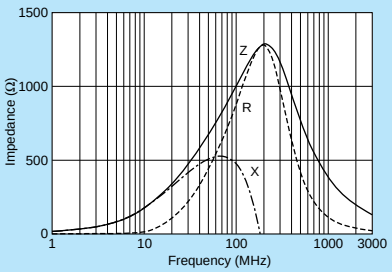
BLM03AX241SN1



BLM03AX601SN1



BLM03AX102SN1



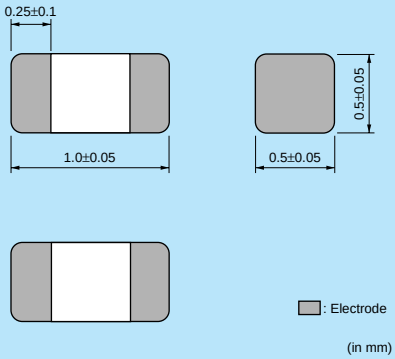
BLM15AX Series (0402 Size)

Hi Power Reflow OK

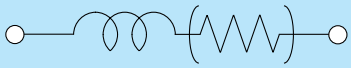
High Spec Ferrite Bead Ultra low dc resistance and wide impedance line up. Fit for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

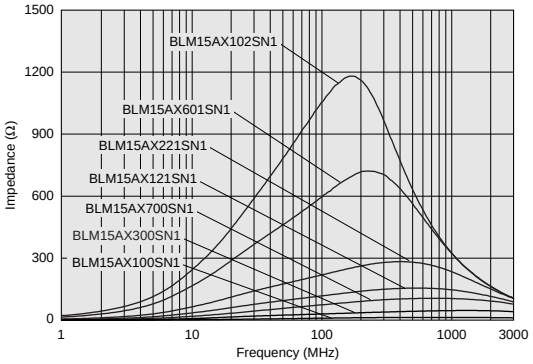
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15AX100SN1☐	10ohm(Typ.)	1740mA	0.015ohm max.	-55°C to +125°C	Kit ≧1A
BLM15AX300SN1☐	30ohm±25%	1100mA	0.06ohm max.	-55°C to +125°C	New Kit ≧1A
BLM15AX700SN1☐	70ohm±25%	780mA	0.1ohm max.	-55°C to +125°C	Kit
BLM15AX121SN1☐	120ohm±25%	680mA	0.13ohm max.	-55°C to +125°C	Kit
BLM15AX221SN1☐	220ohm±25%	580mA	0.18ohm max.	-55°C to +125°C	Kit
BLM15AX601SN1☐	600ohm±25%	420mA	0.34ohm max.	-55°C to +125°C	Kit
BLM15AX102SN1☐	1000ohm±25%	350mA	0.49ohm max.	-55°C to +125°C	Kit

Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

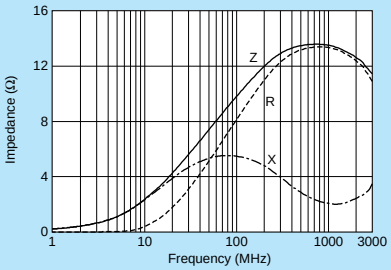


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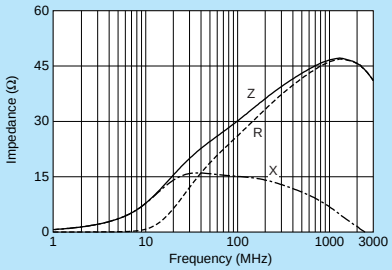
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■ Impedance-Frequency Characteristics

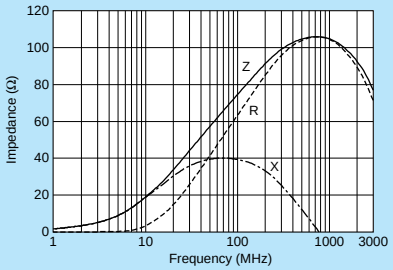
BLM15AX100SN1



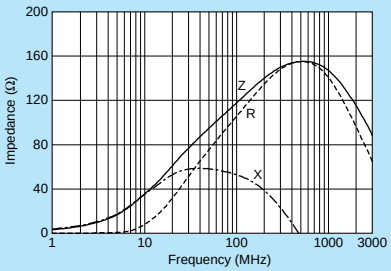
BLM15AX300SN1



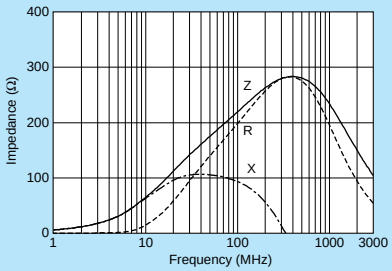
BLM15AX700SN1



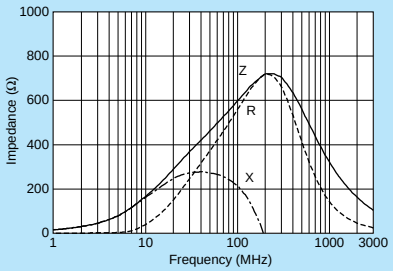
BLM15AX121SN1



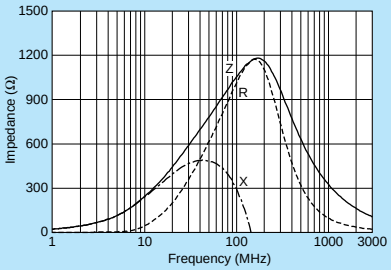
BLM15AX221SN1



BLM15AX601SN1



BLM15AX102SN1



Excellent for Both of Signal and Power Lines!
Multi Function Chip Ferrite Bead BLM□□AX Series

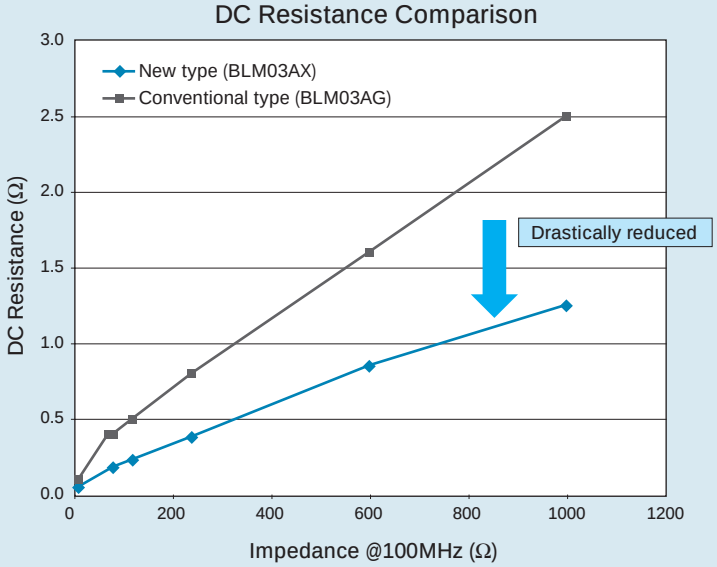
Feature

- 1/2 DC resistance than conventional type by latest technology
  New ferrite material
  Optimum ferrite firing condition
  Fine piling technology
  Advanced coil pattern design technology
- Improved stability of performance at heat shock
- Wide line-up from 10 to 1000ohm(@100MHz) useful for signal line

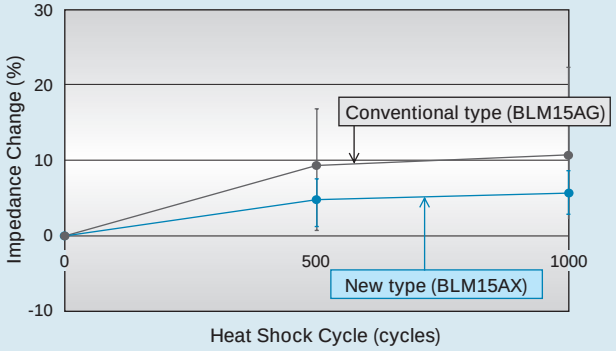
Advantage

- High Rated Current
  Good for Miniaturize of high power equipment
- Lower Voltage down at Ferrite bead
  Good for Battery driven equipment by saving running voltage margin
- Higher Reliability

Drastically Reduced DC Resistance



Test Result - Heat Shock



⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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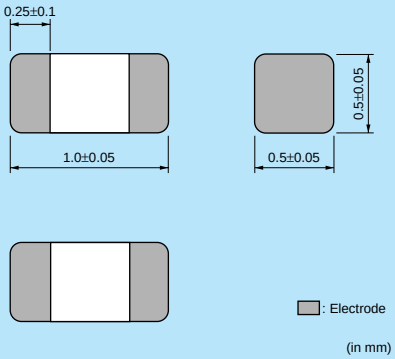
BLM15E Series (0402 Size)

GHz Hi Power Reflow OK

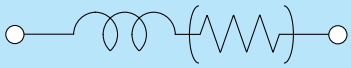
For GHz band noise, also capable to large current.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

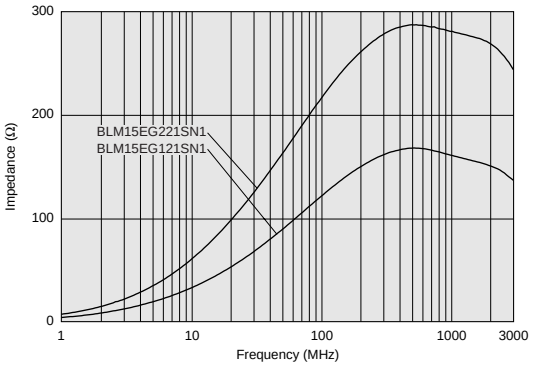
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15EG121SN1☐	120ohm±25%	145ohm(Typ.)	1500mA	0.095ohm max.	-55°C to +125°C	Kit ≧1A
BLM15EG221SN1☐	220ohm±25%	270ohm(Typ.)	700mA	0.28ohm max.	-55°C to +125°C	Kit

Number of Circuits: 1

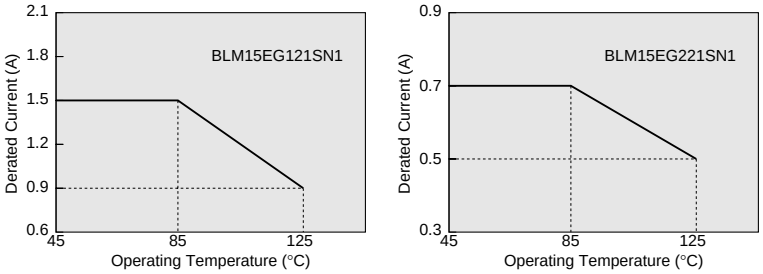
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

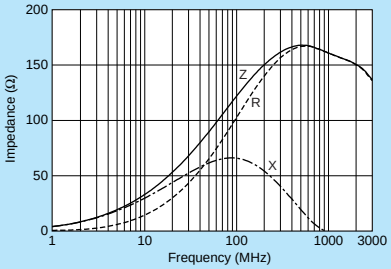
In operating temperature exceeding +85°C, derating of current is necessary for BLM15E series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating

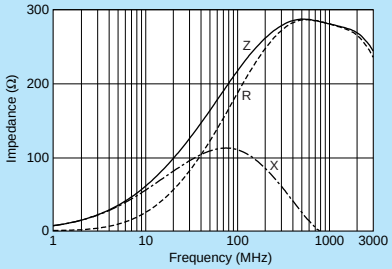


■ Impedance-Frequency Characteristics

BLM15EG121SN1



BLM15EG221SN1



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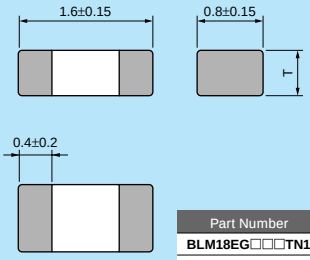
BLM18E Series (0603 Size)

GHz Hi Power Flow OK Reflow OK

For GHz band noise, also capable to large current.



■ Dimensions

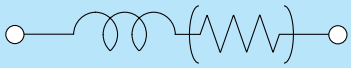


Part Number	T
BLM18EG□□□TN1	0.5±0.15
BLM18EG□□□SN1	0.8±0.15

: Electrode

(in mm)

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

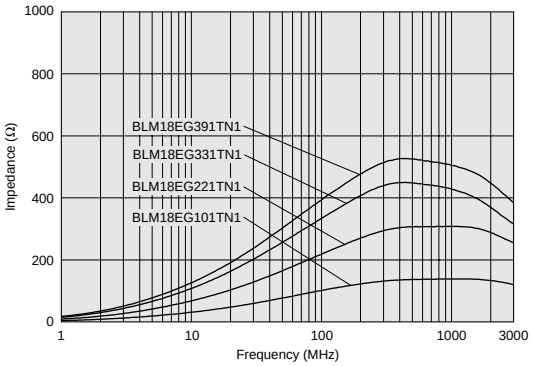
■ Rated Value (□: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18EG101TN1□	100ohm±25%	140ohm(Typ.)	2000mA	0.045ohm max.	-55°C to +125°C	Kit ≧1A
BLM18EG121SN1□	120ohm±25%	145ohm(Typ.)	2000mA	0.04ohm max.	-55°C to +125°C	Kit ≧1A
BLM18EG221SN1□	220ohm±25%	260ohm(Typ.)	2000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM18EG221TN1□	220ohm±25%	300ohm(Typ.)	1000mA	0.15ohm max.	-55°C to +125°C	Kit ≧1A
BLM18EG331TN1□	330ohm±25%	450ohm(Typ.)	500mA	0.21ohm max.	-55°C to +125°C	Kit
BLM18EG391TN1□	390ohm±25%	520ohm(Typ.)	500mA	0.3ohm max.	-55°C to +125°C	Kit
BLM18EG471SN1□	470ohm±25%	550ohm(Typ.)	500mA	0.21ohm max.	-55°C to +125°C	Kit
BLM18EG601SN1□	600ohm±25%	700ohm(Typ.)	500mA	0.35ohm max.	-55°C to +125°C	Kit

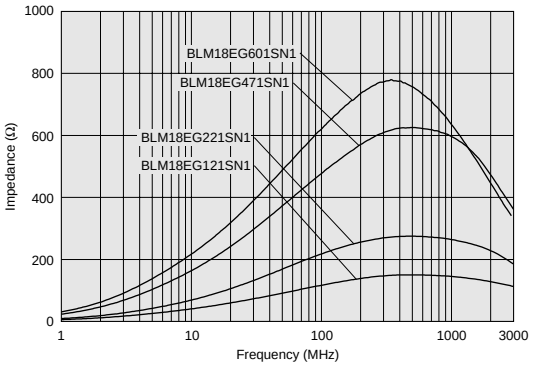
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

BLM18EG_TN Series



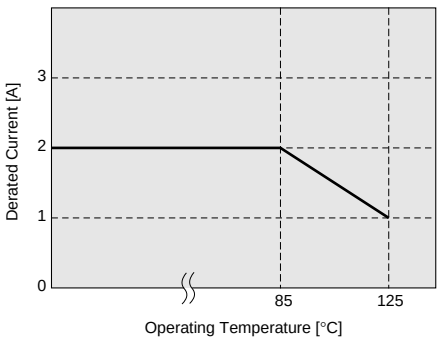
BLM18EG_SN Series



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM18EG series.
Please apply the derating curve shown in chart according to the operating temperature.

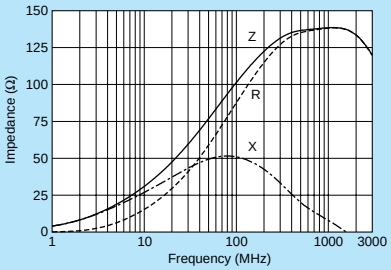
Derating



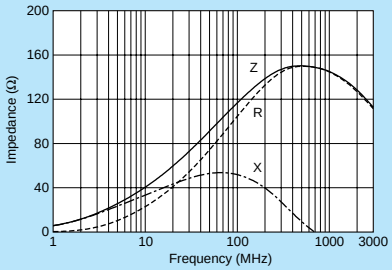
Continued on the following page.

■ Impedance-Frequency Characteristics

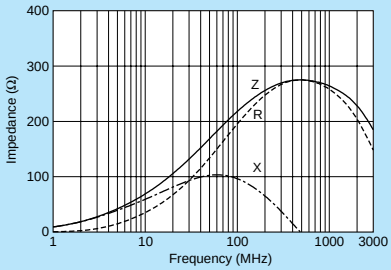
BLM18EG101TN1



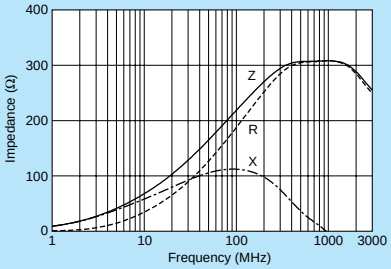
BLM18EG121SN1



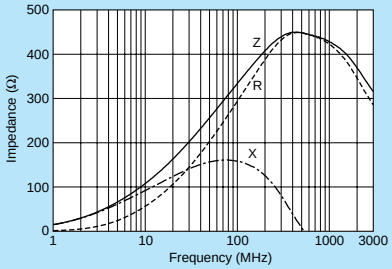
BLM18EG221SN1



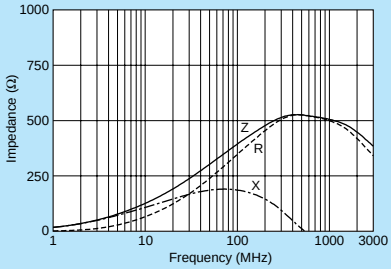
BLM18EG221TN1



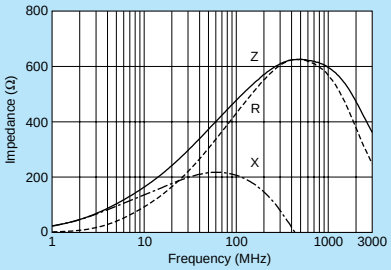
BLM18EG331TN1



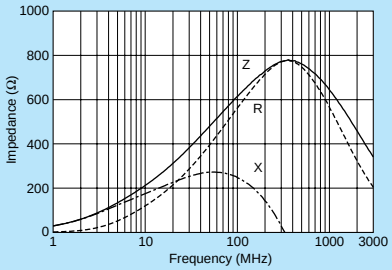
BLM18EG391TN1



BLM18EG471SN1



BLM18EG601SN1



BLM03P Series (0201 Size)

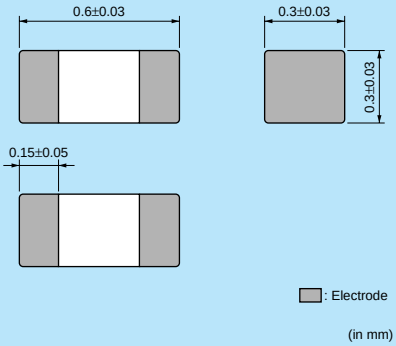
Hi Power Reflow OK

0201 size for power lines.

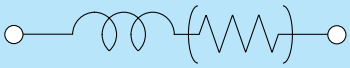
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	15000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

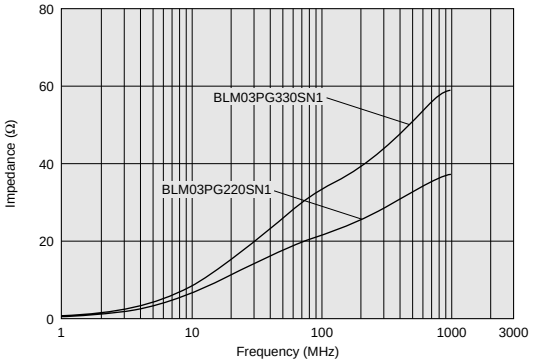
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM03PG220SN1☐	22ohm±25%	900mA	0.065ohm max.	-55°C to +125°C	Kit
BLM03PG330SN1☐	33ohm±25%	750mA	0.090ohm max.	-55°C to +125°C	Kit

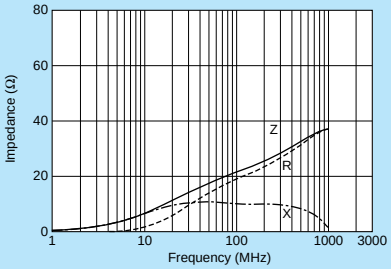
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

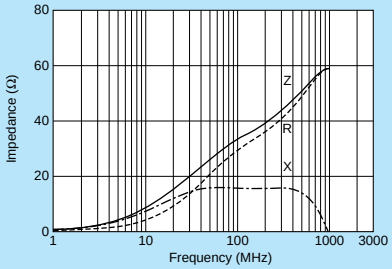


■ Impedance-Frequency Characteristics

BLM03PG220SN1



BLM03PG330SN1



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BLM15PX Series (0402 Size)

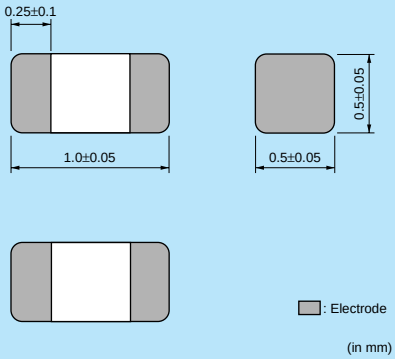
Hi Power Reflow OK

Improved DC resistance, meet larger current.

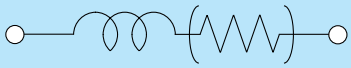
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

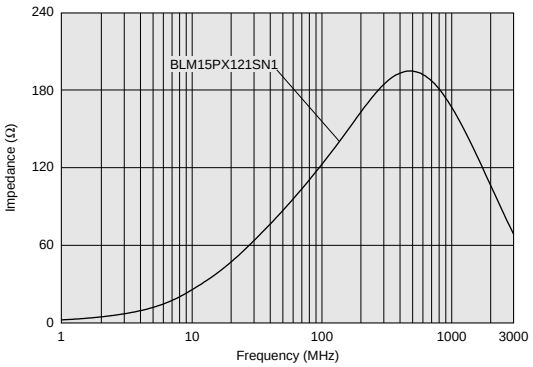
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15PX121SN1☐	120ohm±25%	1800mA	0.06ohm max.	-55°C to +125°C	New Kit ≧1A

Number of Circuits: 1

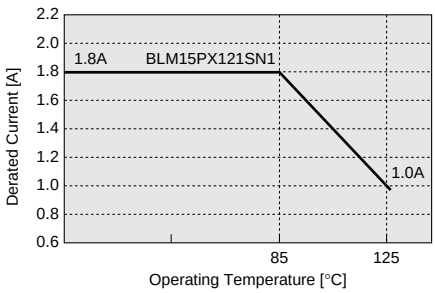
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

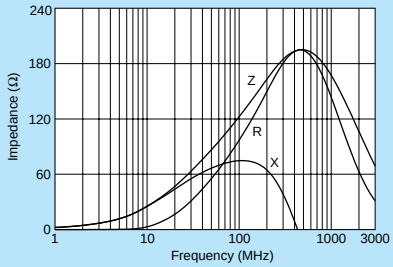
In operating temperature exceeding +85°C, derating of current is necessary for BLM15PX series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating



■ Impedance-Frequency Characteristics

BLM15PX121SN1



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BLM15PG/BLM15PD Series (0402 Size)

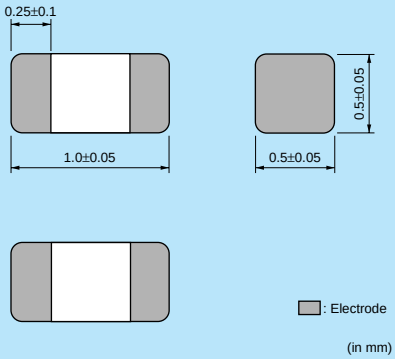
Hi Power Reflow OK

0402 size for power lines.

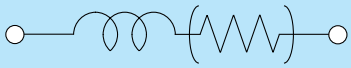
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

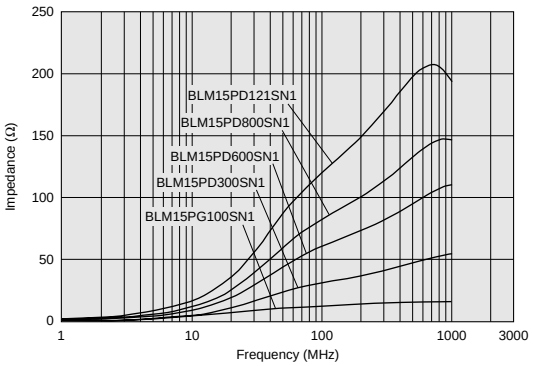
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15PG100SN1☐	10ohm(Typ.)	1000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM15PD300SN1☐	30ohm±25%	2200mA	0.035ohm max.	-55°C to +125°C	Kit ≧1A
BLM15PD600SN1☐	60ohm±25%	1700mA	0.06ohm max.	-55°C to +125°C	Kit ≧1A
BLM15PD800SN1☐	80ohm±25%	1500mA	0.07ohm max.	-55°C to +125°C	Kit ≧1A
BLM15PD121SN1☐	120ohm±25%	1300mA	0.09ohm max.	-55°C to +125°C	Kit ≧1A

Number of Circuits: 1

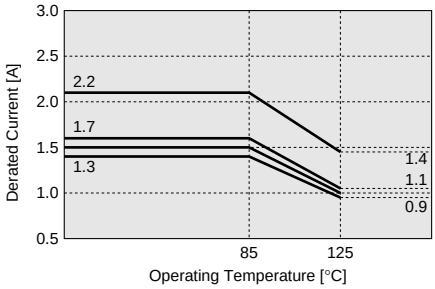
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM15PD series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating

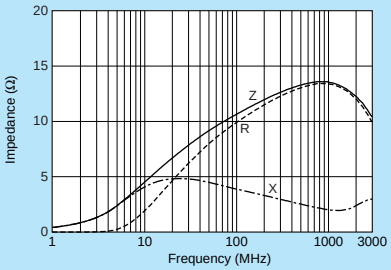


Continued on the following page.

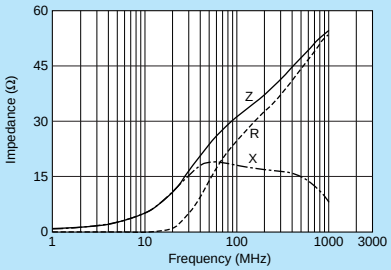
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

■ Impedance-Frequency Characteristics

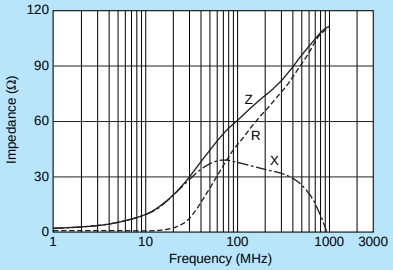
BLM15PG100SN1



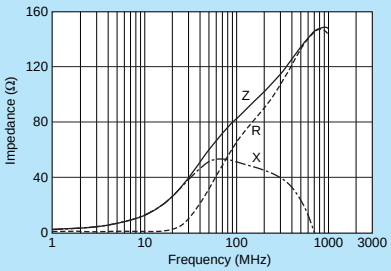
BLM15PD300SN1



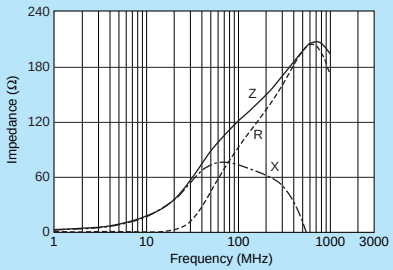
BLM15PD600SN1



BLM15PD800SN1



BLM15PD121SN1



BLM18P Series (0603 Size)

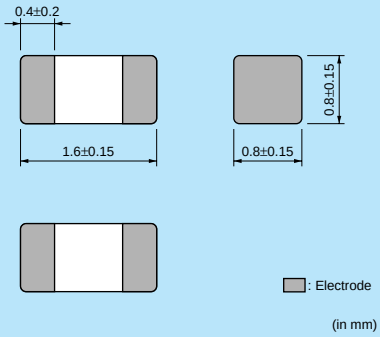
Hi Power Flow OK Reflow OK

0603 size for power lines.

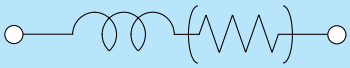
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

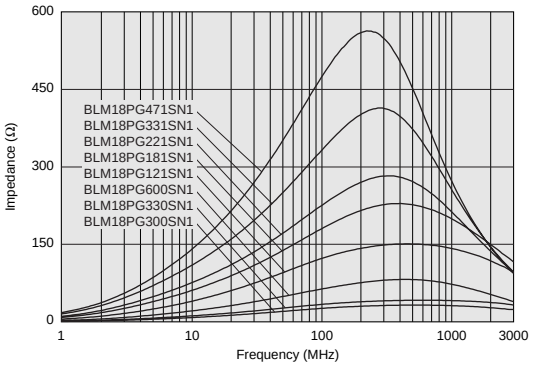
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18PG300SN1□	30ohm(Typ.)	1000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM18PG330SN1□	33ohm±25%	3000mA	0.025ohm max.	-55°C to +125°C	Kit ≧3A
BLM18PG600SN1□	60ohm(Typ.)	500mA	0.10ohm max.	-55°C to +125°C	Kit
BLM18PG121SN1□	120ohm±25%	2000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM18PG181SN1□	180ohm±25%	1500mA	0.09ohm max.	-55°C to +125°C	Kit ≧1A
BLM18PG221SN1□	220ohm±25%	1400mA	0.10ohm max.	-55°C to +125°C	Kit ≧1A
BLM18PG331SN1□	330ohm±25%	1200mA	0.15ohm max.	-55°C to +125°C	Kit ≧1A
BLM18PG471SN1□	470ohm±25%	1000mA	0.20ohm max.	-55°C to +125°C	Kit ≧1A

Number of Circuits: 1

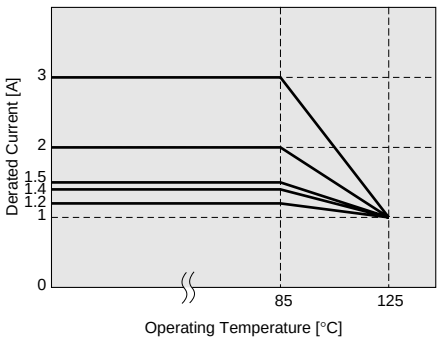
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM18PG series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating

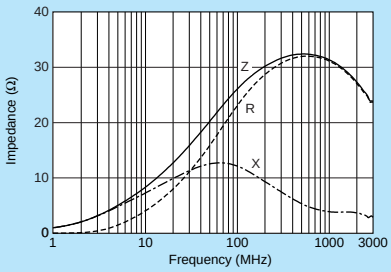


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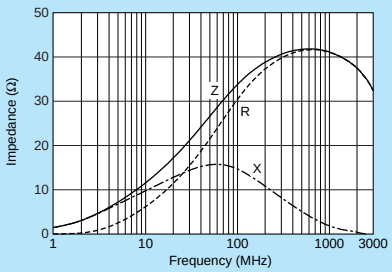
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

■ Impedance-Frequency Characteristics

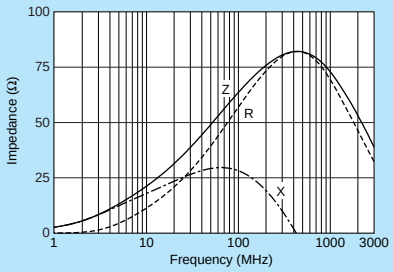
BLM18PG300SN1



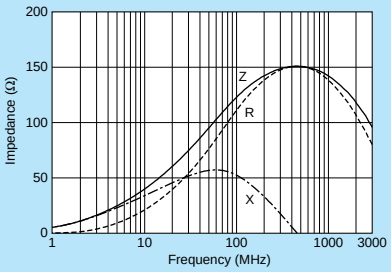
BLM18PG330SN1



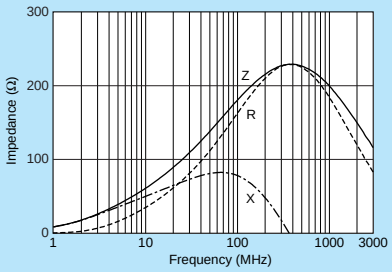
BLM18PG600SN1



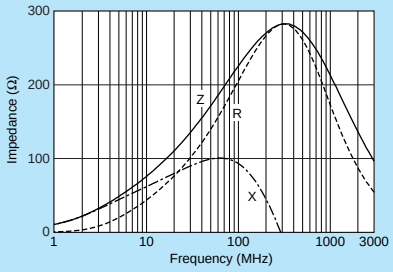
BLM18PG121SN1



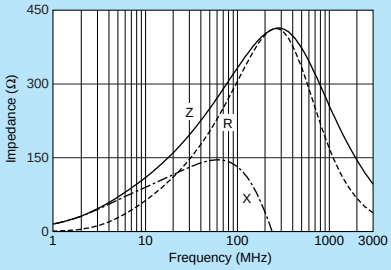
BLM18PG181SN1



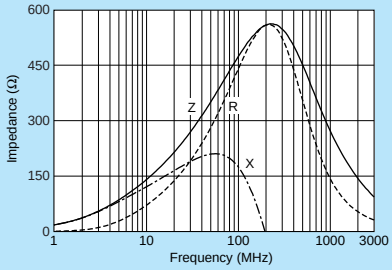
BLM18PG221SN1



BLM18PG331SN1



BLM18PG471SN1



BLM21P Series (0805 Size)

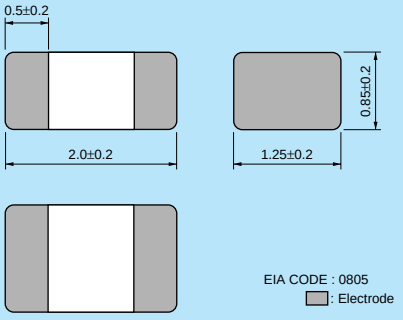
Hi Power Flow OK Reflow OK

0805 size for power lines.

*Please refer to the products which are designed for both power lines and signal lines. *Please refer to BLM18K for downsizing.



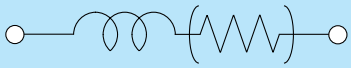
■ Dimensions



EIA CODE : 0805
: Electrode

(in mm)

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

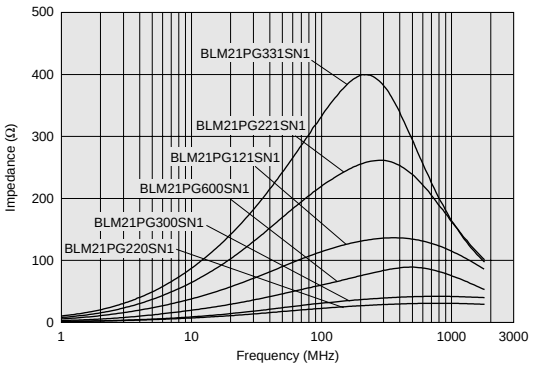
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM21PG220SN1☐	22ohm±25%	6000mA	0.01ohm max.	-55°C to +125°C	Kit ≧3A
BLM21PG300SN1☐	30ohm(Typ.)	3000mA	0.015ohm max.	-55°C to +125°C	Kit ≧3A
BLM21PG600SN1☐	60ohm±25%	3000mA	0.025ohm max.	-55°C to +125°C	Kit ≧3A
BLM21PG121SN1☐	120ohm±25%	3000mA	0.03ohm max.	-55°C to +125°C	Kit ≧3A
BLM21PG221SN1☐	220ohm±25%	2000mA	0.050ohm max.	-55°C to +125°C	Kit ≧1A
BLM21PG331SN1☐	330ohm±25%	1500mA	0.09ohm max.	-55°C to +125°C	Kit ≧1A

Number of Circuits: 1

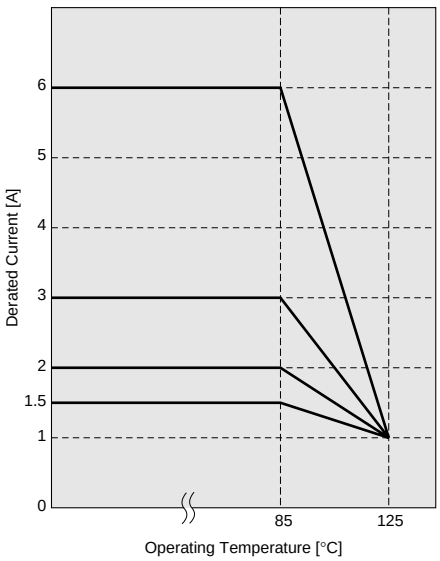
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM21PG series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating

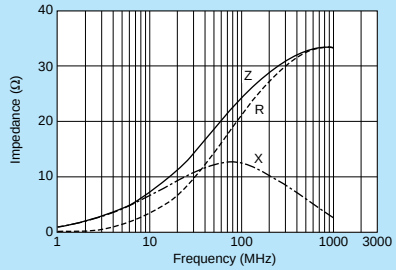


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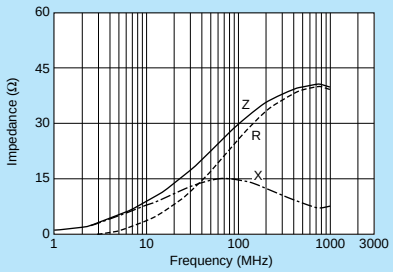
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

■ Impedance-Frequency Characteristics

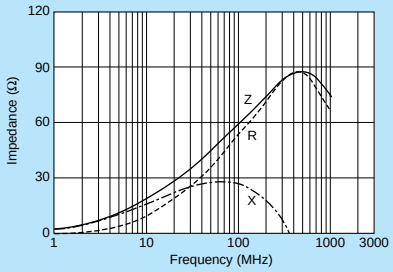
BLM21PG220SN1



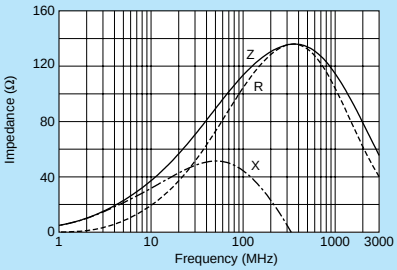
BLM21PG300SN1



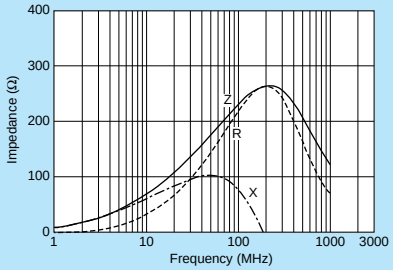
BLM21PG600SN1



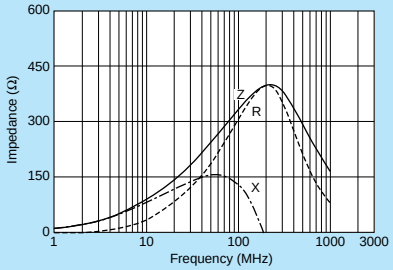
BLM21PG121SN1



BLM21PG221SN1



BLM21PG331SN1

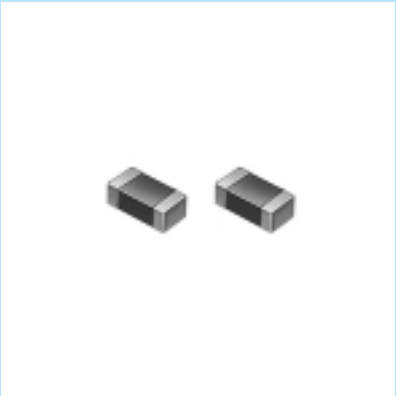


BLM31P Series (1206 Size)

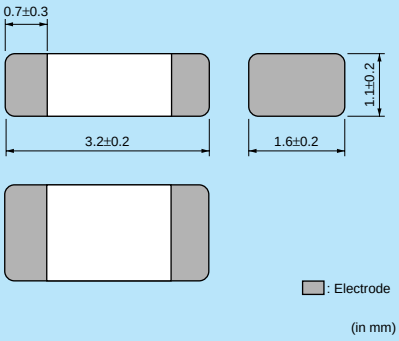
Hi Power Flow OK Reflow OK

1206 size for power lines.

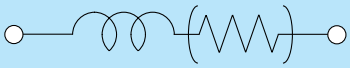
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	3000
K	330mm Reel Embossed Tape	10000
B	Bulk(Bag)	1000

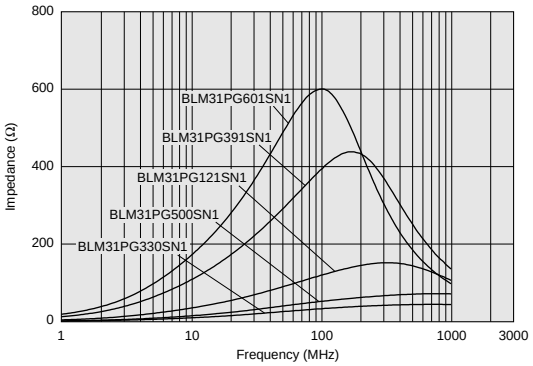
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM31PG330SN1□	33ohm±25%	6000mA	0.01ohm max.	-55°C to +125°C	Kit ≧3A
BLM31PG500SN1□	50ohm(Typ.)	3000mA	0.025ohm max.	-55°C to +125°C	Kit ≧3A
BLM31PG121SN1□	120ohm±25%	3000mA	0.025ohm max.	-55°C to +125°C	Kit ≧3A
BLM31PG391SN1□	390ohm±25%	2000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM31PG601SN1□	600ohm±25%	1500mA	0.09ohm max.	-55°C to +125°C	Kit ≧1A

Number of Circuits: 1

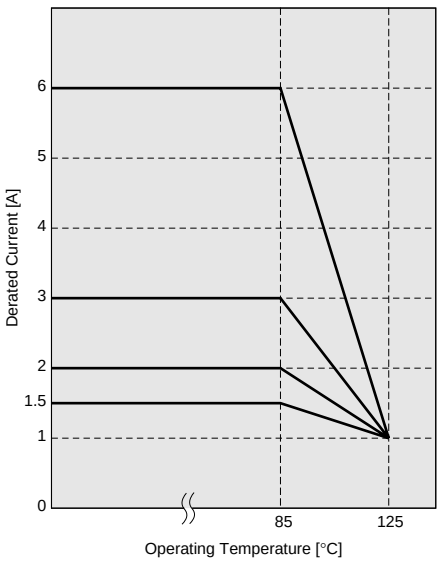
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM31PG series.
Please apply the derating curve shown in chart according to the operating temperature.

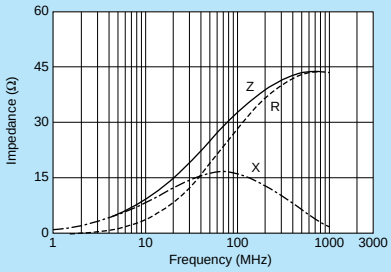
Derating



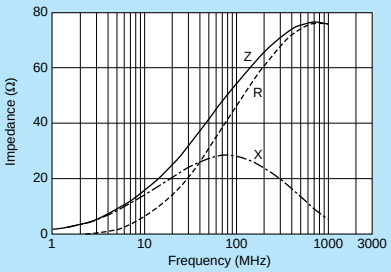
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■ Impedance-Frequency Characteristics

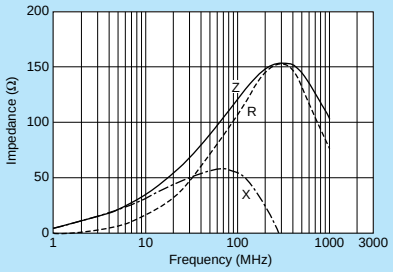
BLM31PG330SN1



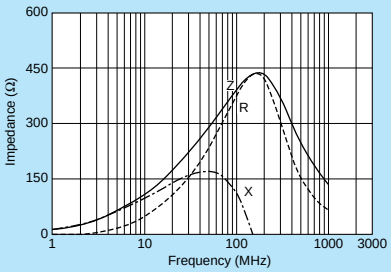
BLM31PG500SN1



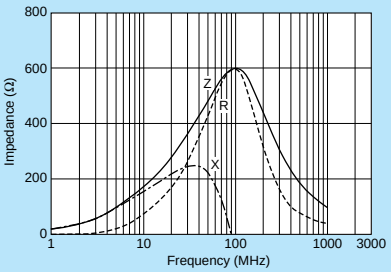
BLM31PG121SN1



BLM31PG391SN1



BLM31PG601SN1

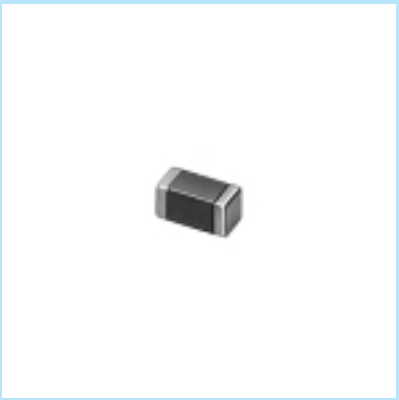


BLM41P Series (1806 Size)

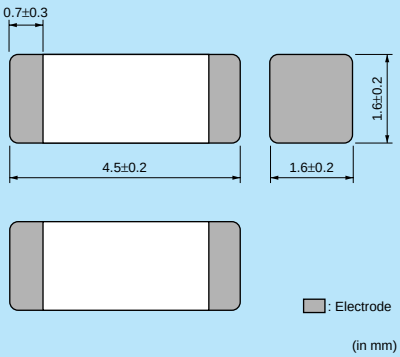
Hi Power Flow OK Reflow OK

1806 size for power lines.

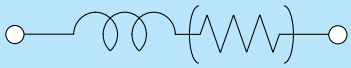
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Reel Embossed Tape	2500
K	330mm Reel Embossed Tape	8000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

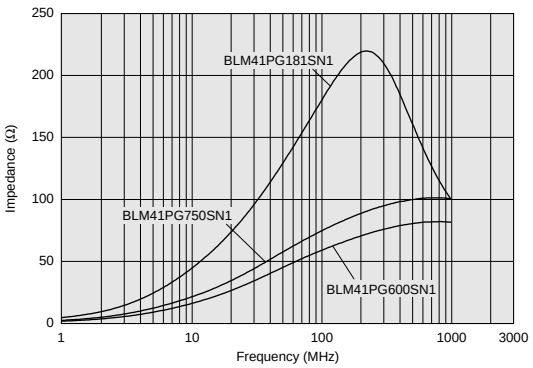
■ Rated Value (□: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM41PG600SN1□	60ohm(Typ.)	6000mA	0.01ohm max.	-55°C to +125°C	Kit ≧3A
BLM41PG750SN1□	75ohm(Typ.)	3000mA	0.025ohm max.	-55°C to +125°C	Kit ≧3A
BLM41PG181SN1□	180ohm±25%	3000mA	0.025ohm max.	-55°C to +125°C	Kit ≧3A
BLM41PG471SN1□	470ohm±25%	2000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM41PG102SN1□	1000ohm±25%	1500mA	0.09ohm max.	-55°C to +125°C	Kit ≧1A

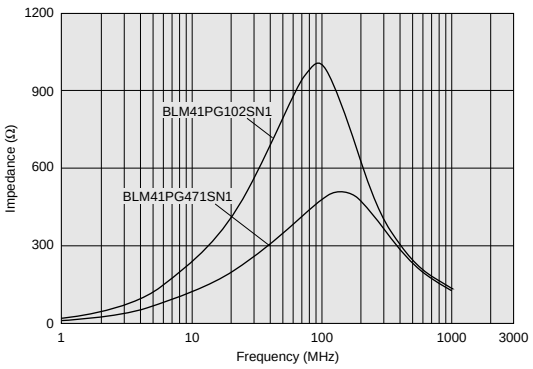
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

BLM41PG Series (60ohm to 180ohm)



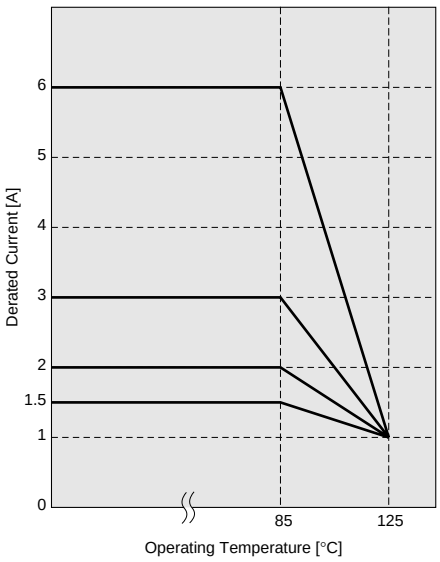
BLM41PG Series (470ohm to 1000ohm)



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM41PG series.
Please apply the derating curve shown in chart according to the operating temperature.

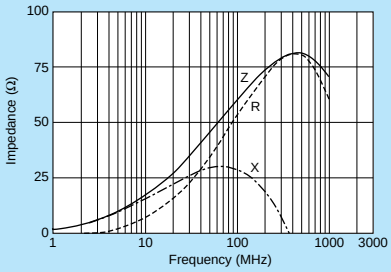
Derating



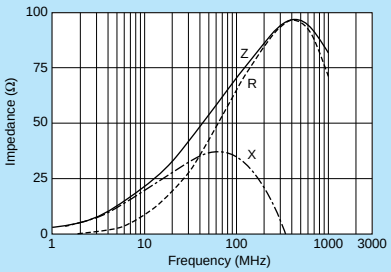
Continued on the following page.

■ Impedance-Frequency Characteristics

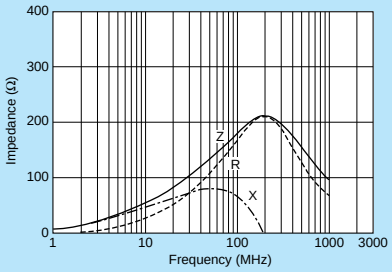
BLM41PG600SN1



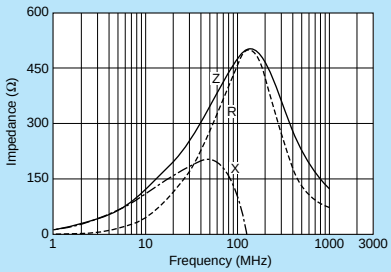
BLM41PG750SN1



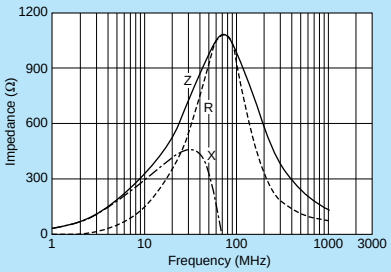
BLM41PG181SN1



BLM41PG471SN1



BLM41PG102SN1



BLM18K Series (0603 Size)

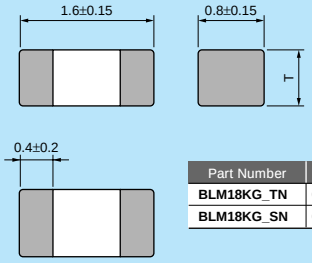
Hi Power Flow OK Reflow OK

6A Max, high performance type for power lines up to 600ohm.

*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions

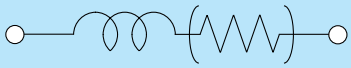


Part Number	T
BLM18KG_TN	0.6±0.15
BLM18KG_SN	0.8±0.15

: Electrode

(in mm)

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

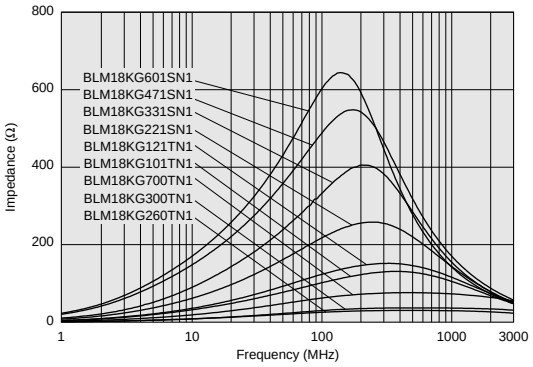
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18KG260TN1□	26ohm±25%	6000mA	0.007ohm max.	-55°C to +125°C	Kit ≧3A
BLM18KG300TN1□	30ohm±25%	5000mA	0.010ohm max.	-55°C to +125°C	Kit ≧3A
BLM18KG700TN1□	70ohm±25%	3500mA	0.022ohm max.	-55°C to +125°C	Kit ≧3A
BLM18KG101TN1□	100ohm±25%	3000mA	0.030ohm max.	-55°C to +125°C	Kit ≧3A
BLM18KG121TN1□	120ohm±25%	3000mA	0.030ohm max.	-55°C to +125°C	Kit ≧3A
BLM18KG221SN1□	220ohm±25%	2200mA	0.050ohm max.	-55°C to +125°C	Kit ≧1A
BLM18KG331SN1□	330ohm±25%	1700mA	0.080ohm max.	-55°C to +125°C	Kit ≧1A
BLM18KG471SN1□	470ohm±25%	1500mA	0.130ohm max.	-55°C to +125°C	Kit ≧1A
BLM18KG601SN1□	600ohm±25%	1300mA	0.150ohm max.	-55°C to +125°C	Kit ≧1A

Number of Circuits: 1

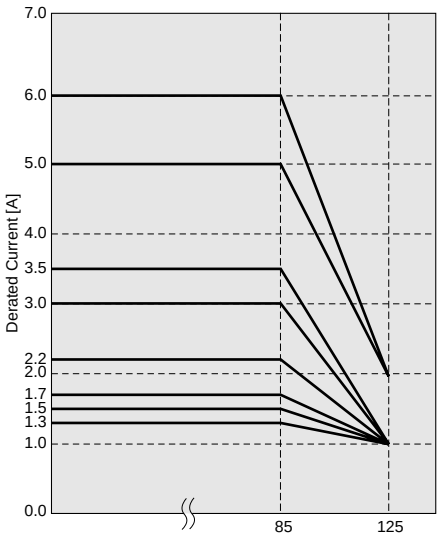
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM18KG series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating

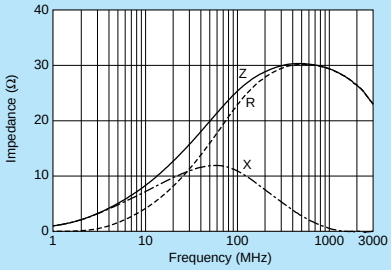


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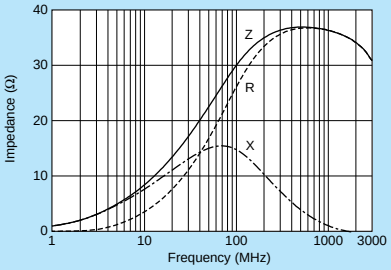
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

■ Impedance-Frequency Characteristics

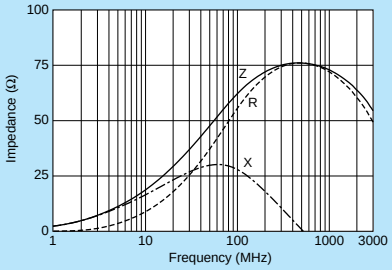
BLM18KG260TN1



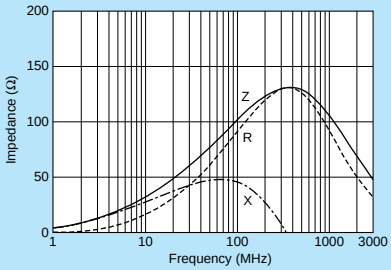
BLM18KG300TN1



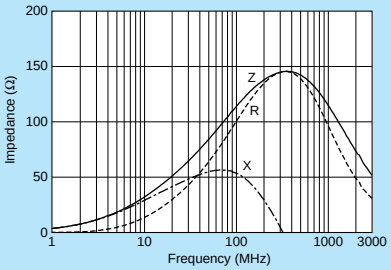
BLM18KG700TN1



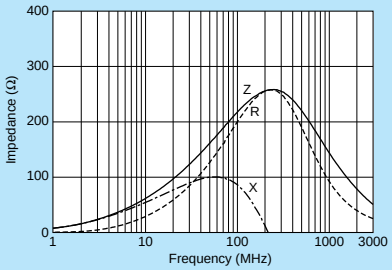
BLM18KG101TN1



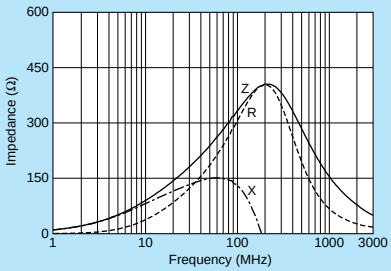
BLM18KG121TN1



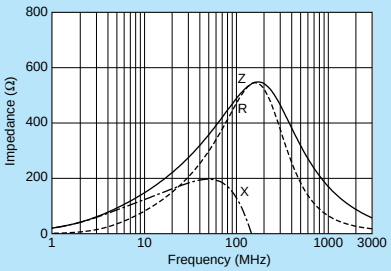
BLM18KG221SN1



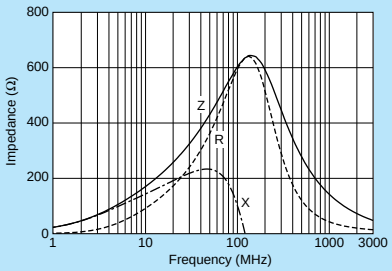
BLM18KG331SN1



BLM18KG471SN1



BLM18KG601SN1



BLM18S Series (0603 Size)

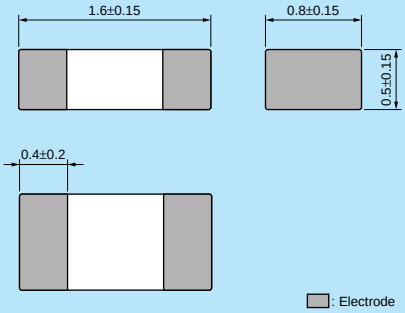
Hi Power Flow OK Reflow OK

6A Max, high performance type for power lines.

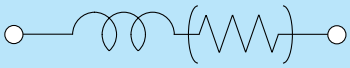
*Please refer to the products which are designed for both power lines and signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	30000
B	Bulk(Bag)	1000

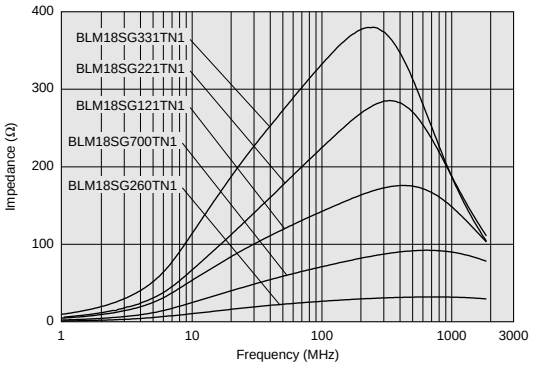
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18SG260TN1□	26ohm±25%	6000mA	0.007ohm max.	-55°C to +125°C	Kit ≧3A
BLM18SG700TN1□	70ohm±25%	4000mA	0.020ohm max.	-55°C to +125°C	Kit ≧3A
BLM18SG121TN1□	120ohm±25%	3000mA	0.025ohm max.	-55°C to +125°C	Kit ≧3A
BLM18SG221TN1□	220ohm±25%	2500mA	0.040ohm max.	-55°C to +125°C	Kit ≧1A
BLM18SG331TN1□	330ohm±25%	1500mA	0.070ohm max.	-55°C to +125°C	Kit ≧1A

Number of Circuits: 1

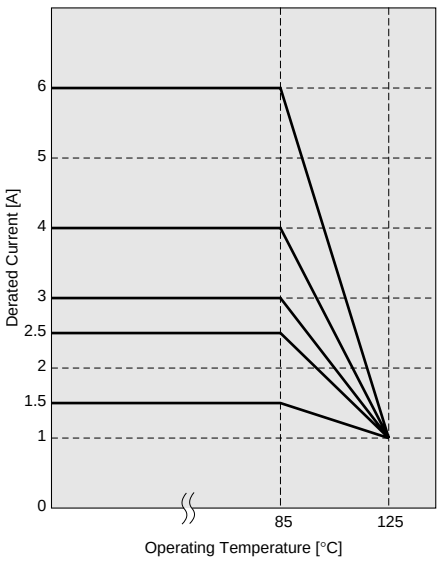
■ Impedance-Frequency Characteristics (Main Items)



■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for BLM18SG series.
Please apply the derating curve shown in chart according to the operating temperature.

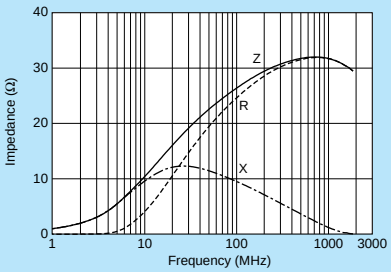
Derating



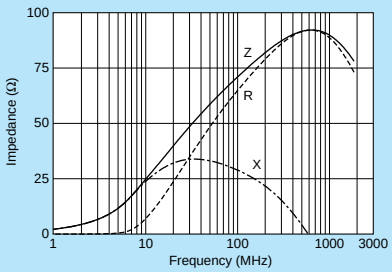
Continued on the following page.

■ Impedance-Frequency Characteristics

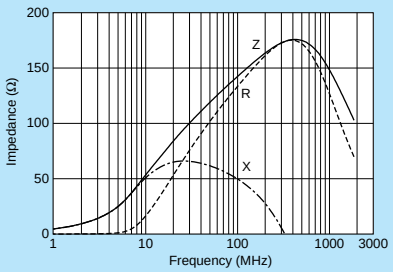
BLM18SG260TN1



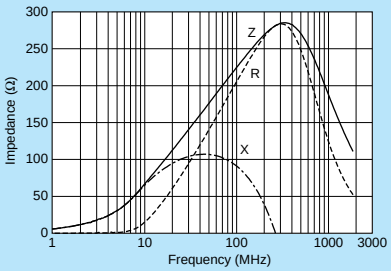
BLM18SG700TN1



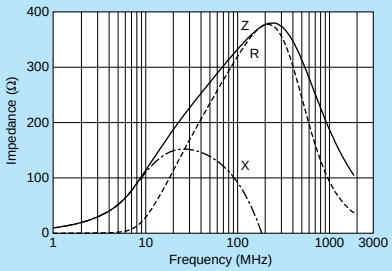
BLM18SG121TN1



BLM18SG221TN1



BLM18SG331TN1



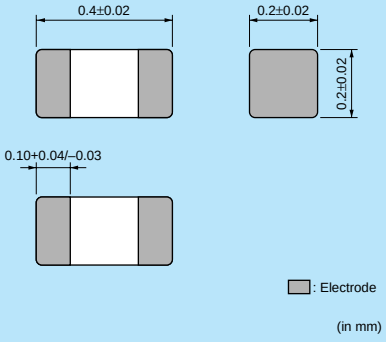
BLM02A Series (01005 Size)

Reflow OK

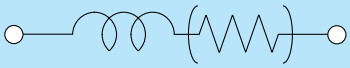
Ultra small 01005 size for general signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	20000
B	Bulk(Bag)	1000

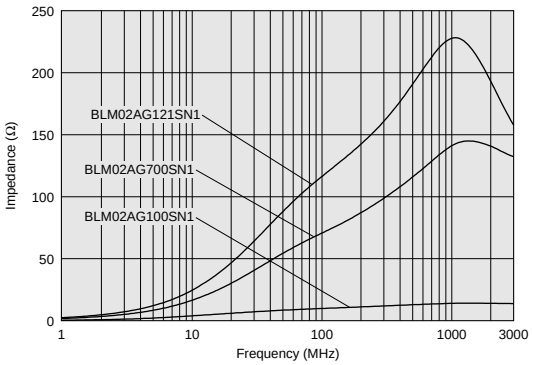
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM02AG100SN1☐	10ohm(Typ.)	500mA	0.1ohm max.	-55°C to +125°C	Kit
BLM02AG700SN1☐	70ohm±25%	250mA	0.5ohm max.	-55°C to +125°C	Kit
BLM02AG121SN1☐	120ohm±25%	200mA	0.8ohm max.	-55°C to +125°C	Kit

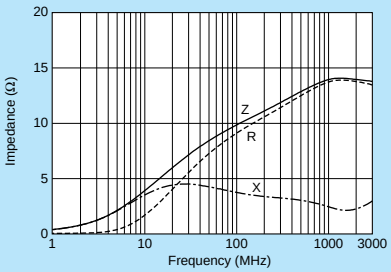
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

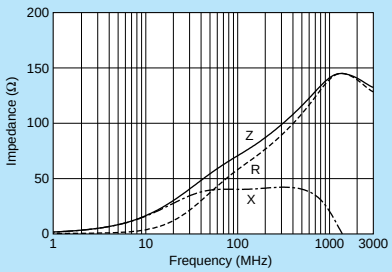


■ Impedance-Frequency Characteristics

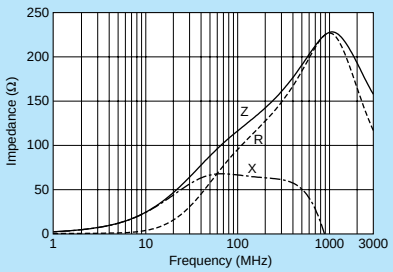
BLM02AG100SN1



BLM02AG700SN1



BLM02AG121SN1



⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

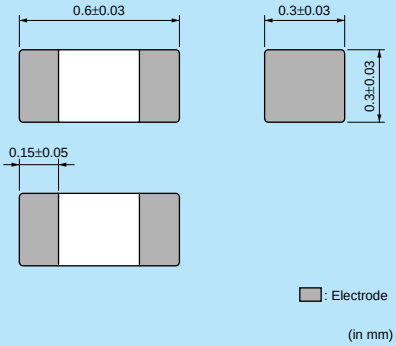
BLM03AG Series (0201 Size)

Reflow OK

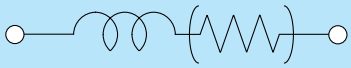
0201 size for general signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	15000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

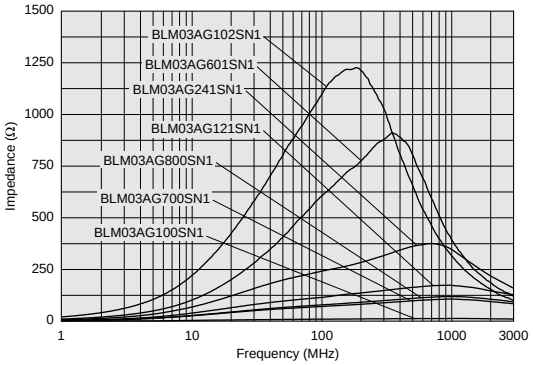
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM03AG100SN1☐	10ohm(Typ.)	500mA	0.1ohm max.	-55°C to +125°C	Kit
BLM03AG700SN1☐	70ohm(Typ.)	200mA	0.4ohm max.	-55°C to +125°C	Kit
BLM03AG800SN1☐	80ohm±25%	200mA	0.4ohm max.	-55°C to +125°C	Kit
BLM03AG121SN1☐	120ohm±25%	200mA	0.5ohm max.	-55°C to +125°C	Kit
BLM03AG241SN1☐	240ohm±25%	200mA	0.8ohm max.	-55°C to +125°C	Kit
BLM03AG601SN1☐	600ohm±25%	100mA	1.5ohm max.	-55°C to +125°C	Kit
BLM03AG102SN1☐	1000ohm±25%	100mA	2.5ohm max.	-55°C to +125°C	Kit

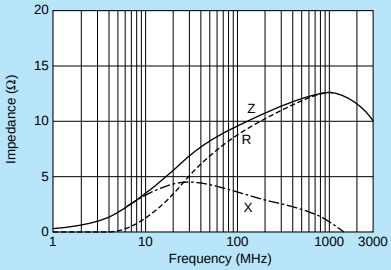
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

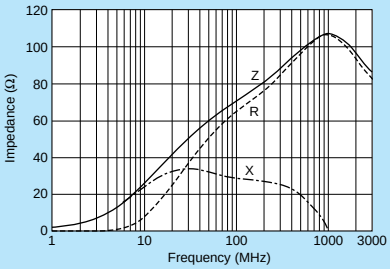


■ Impedance-Frequency Characteristics

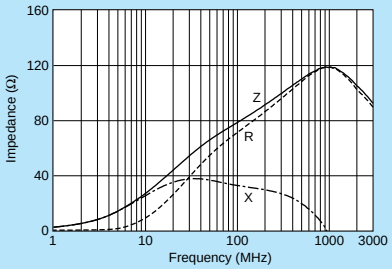
BLM03AG100SN1



BLM03AG700SN1



BLM03AG800SN1

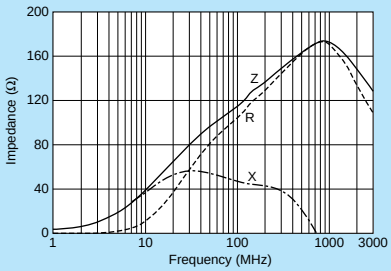


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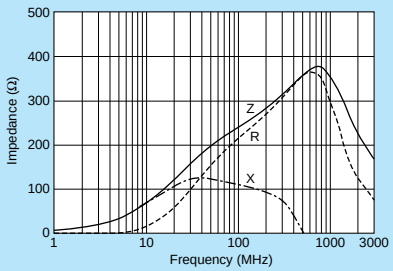
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

■ Impedance-Frequency Characteristics

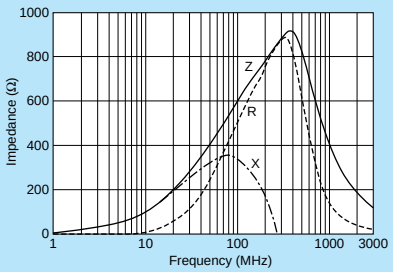
BLM03AG121SN1



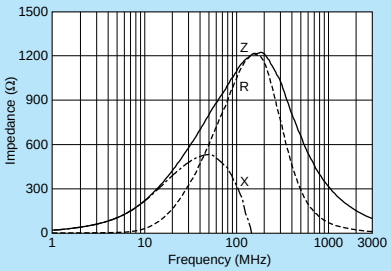
BLM03AG241SN1



BLM03AG601SN1



BLM03AG102SN1



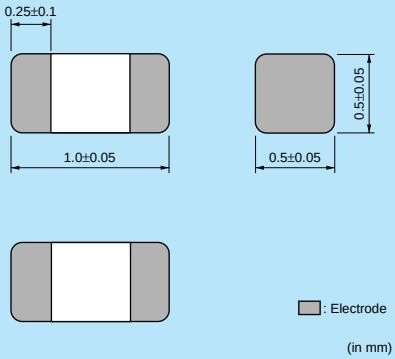
BLM15AG_SN Series (0402 Size)

Reflow OK

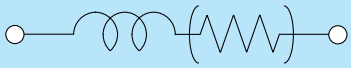
0402 size for general signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

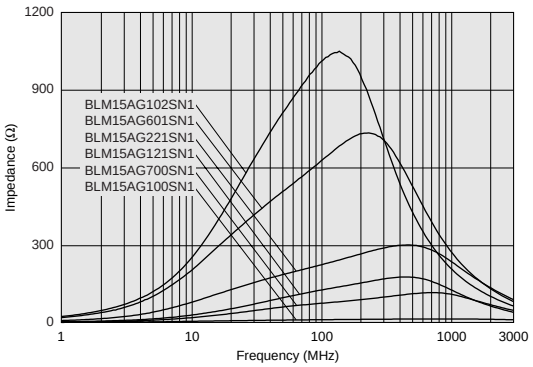
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15AG100SN1☐	10ohm(Typ.)	1000mA	0.05ohm max.	-55°C to +125°C	Kit ≧1A
BLM15AG700SN1☐	70ohm(Typ.)	500mA	0.15ohm max.	-55°C to +125°C	Kit
BLM15AG121SN1☐	120ohm±25%	500mA	0.25ohm max.	-55°C to +125°C	Kit
BLM15AG221SN1☐	220ohm±25%	300mA	0.35ohm max.	-55°C to +125°C	Kit
BLM15AG601SN1☐	600ohm±25%	300mA	0.6ohm max.	-55°C to +125°C	Kit
BLM15AG102SN1☐	1000ohm±25%	200mA	1.0ohm max.	-55°C to +125°C	Kit

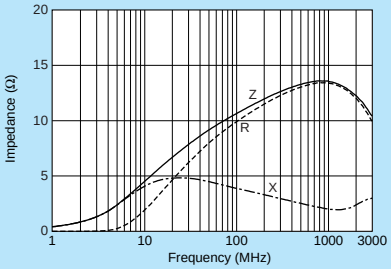
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

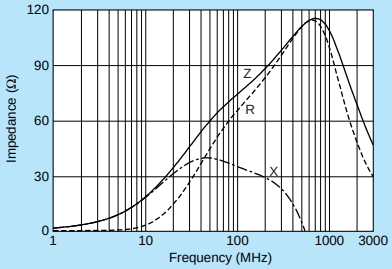


■ Impedance-Frequency Characteristics

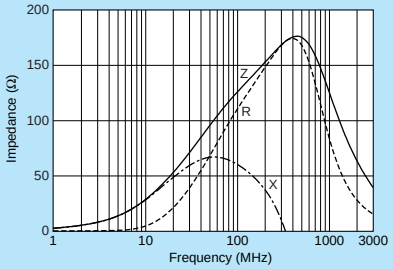
BLM15AG100SN1



BLM15AG700SN1



BLM15AG121SN1

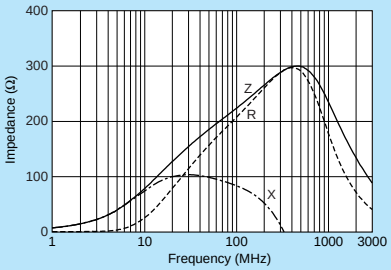


Continued on the following page.

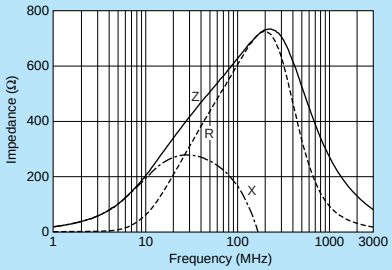
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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■ Impedance-Frequency Characteristics

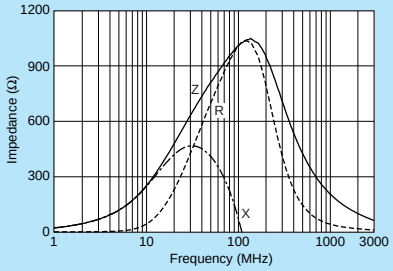
BLM15AG221SN1



BLM15AG601SN1



BLM15AG102SN1

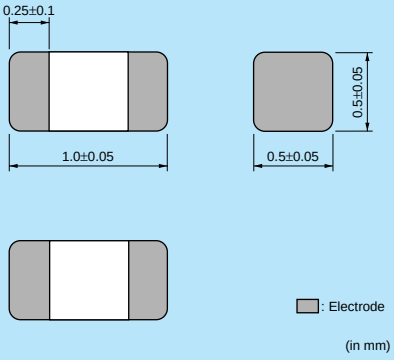


BLM15AG_AN Series Gold Plating (0402 Size)

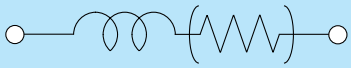
Au plating electrode for wire bonding mount.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

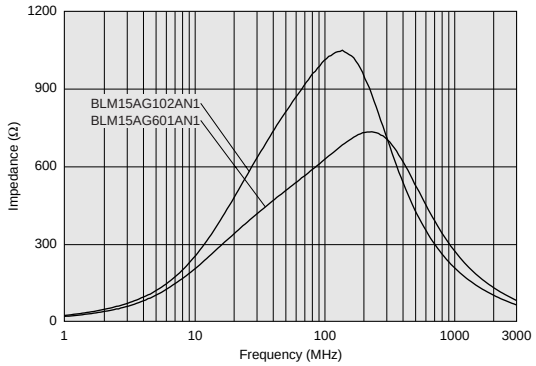
■ Rated Value (☐: packaging code)

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

Number of Circuits: 1

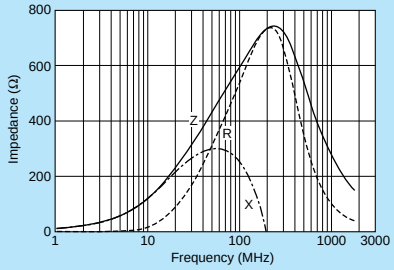
This product is Au plating version designed for wire bonding mount. Be sure that this product is not designed for solder mounting.

■ Impedance-Frequency Characteristics (Main Items)

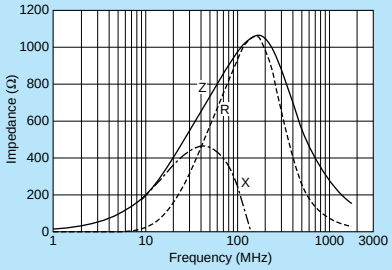


■ Impedance-Frequency Characteristics

BLM15AG601AN1



BLM15AG102AN1



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BLM18A Series (0603 Size)

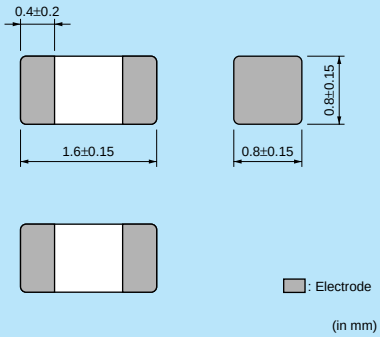
Flow OK Reflow OK

0603 size for general signal lines.

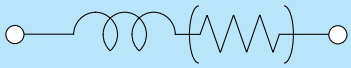
*Please refer to BLM15A for downsizing.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

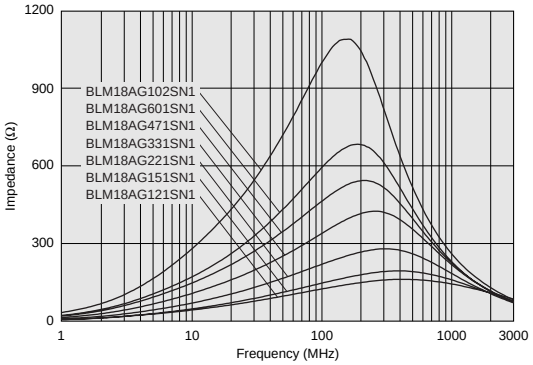
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18AG121SN1☐	120ohm±25%	500mA	0.18ohm max.	-55°C to +125°C	Kit
BLM18AG151SN1☐	150ohm±25%	500mA	0.25ohm max.	-55°C to +125°C	Kit
BLM18AG221SN1☐	220ohm±25%	500mA	0.25ohm max.	-55°C to +125°C	Kit
BLM18AG331SN1☐	330ohm±25%	500mA	0.30ohm max.	-55°C to +125°C	Kit
BLM18AG471SN1☐	470ohm±25%	500mA	0.35ohm max.	-55°C to +125°C	Kit
BLM18AG601SN1☐	600ohm±25%	500mA	0.38ohm max.	-55°C to +125°C	Kit
BLM18AG102SN1☐	1000ohm±25%	400mA	0.50ohm max.	-55°C to +125°C	Kit

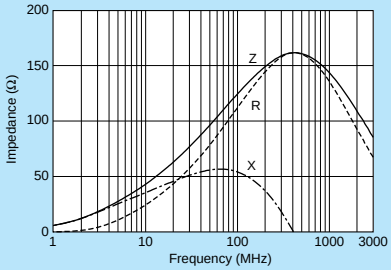
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

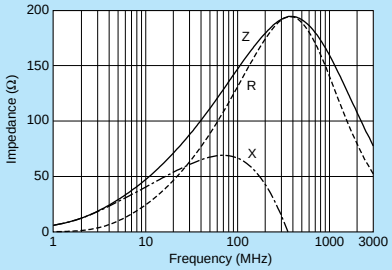


■ Impedance-Frequency Characteristics

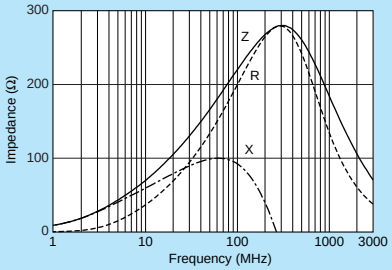
BLM18AG121SN1



BLM18AG151SN1



BLM18AG221SN1

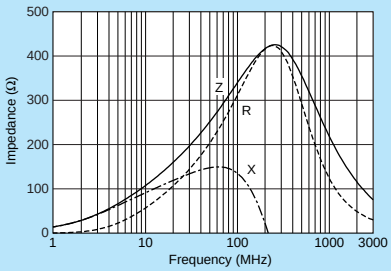


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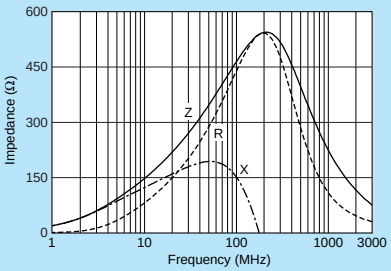
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■ Impedance-Frequency Characteristics

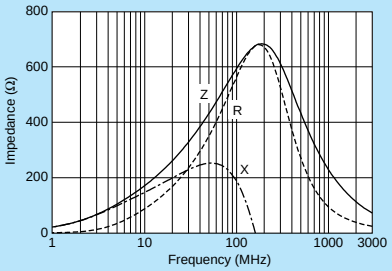
BLM18AG331SN1



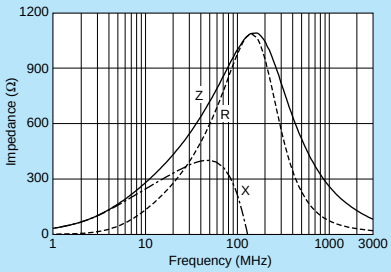
BLM18AG471SN1



BLM18AG601SN1



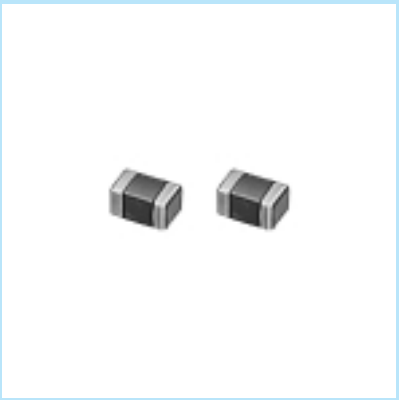
BLM18AG102SN1



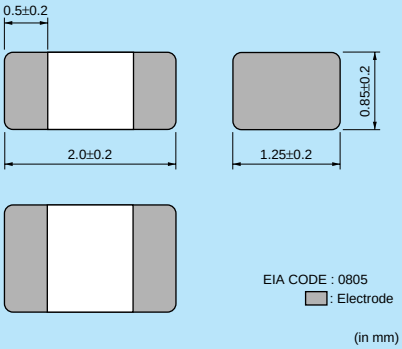
BLM21A Series (0805 Size)

Flow OK Reflow OK

0805 size for general signal lines.



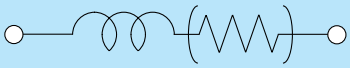
■ Dimensions



EIA CODE : 0805
: Electrode

(in mm)

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

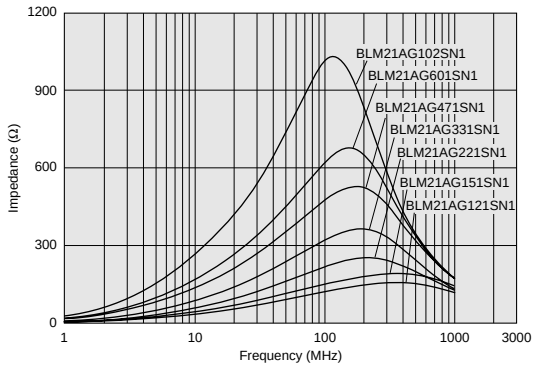
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

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

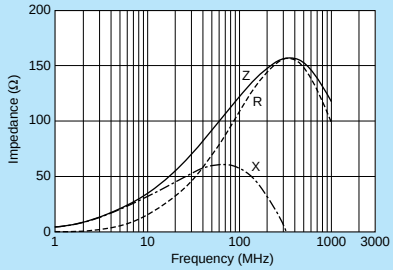
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

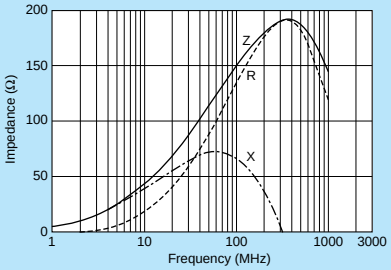


■ Impedance-Frequency Characteristics

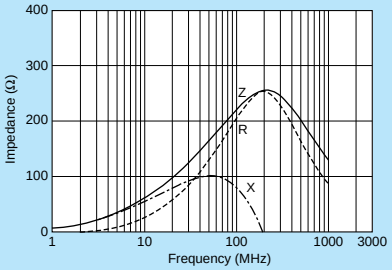
BLM21AG121SN1



BLM21AG151SN1



BLM21AG221SN1

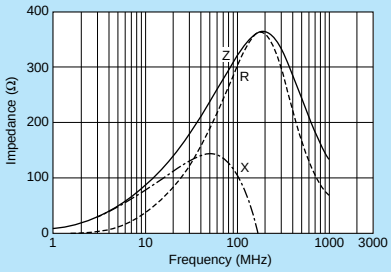


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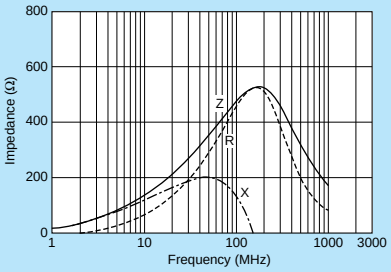
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■ Impedance-Frequency Characteristics

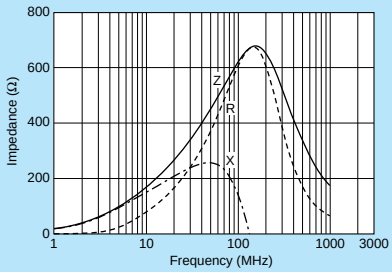
BLM21AG331SN1



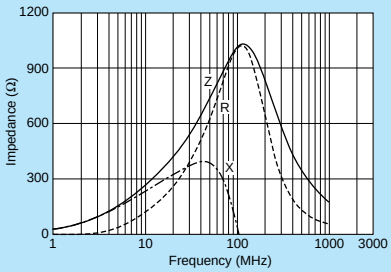
BLM21AG471SN1



BLM21AG601SN1



BLM21AG102SN1



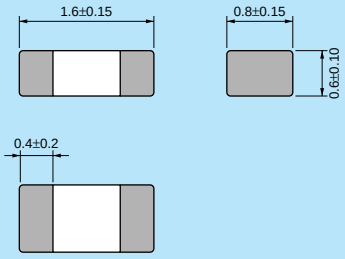
BLM18T Series (0603 Size)

Flow OK Reflow OK

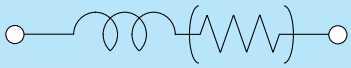
Thin 0603 size for general signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

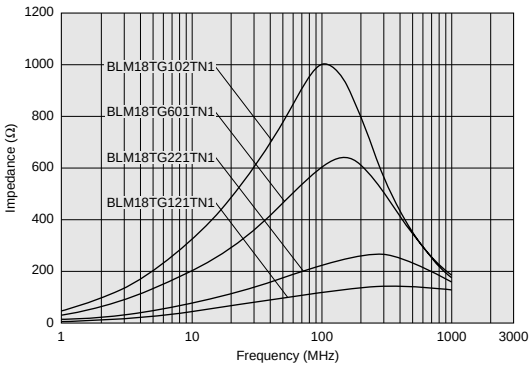
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

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

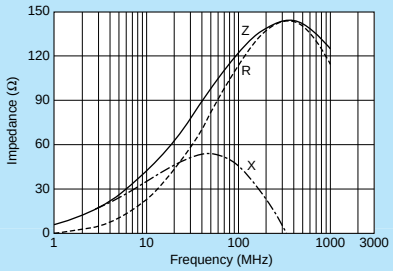
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

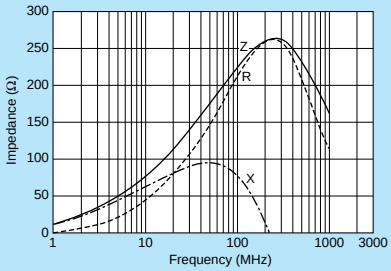


■ Impedance-Frequency Characteristics

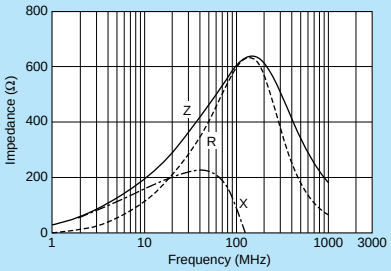
BLM18TG121TN1



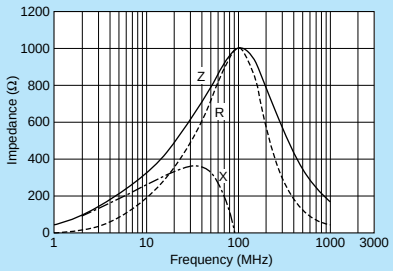
BLM18TG221TN1



BLM18TG601TN1



BLM18TG102TN1



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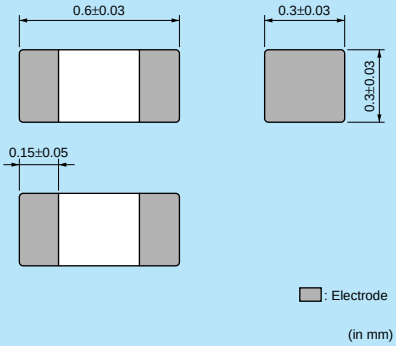
BLM03B Series (0201 Size)

Reflow OK

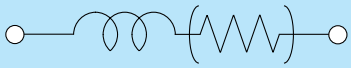
0201 size for high speed signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	15000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

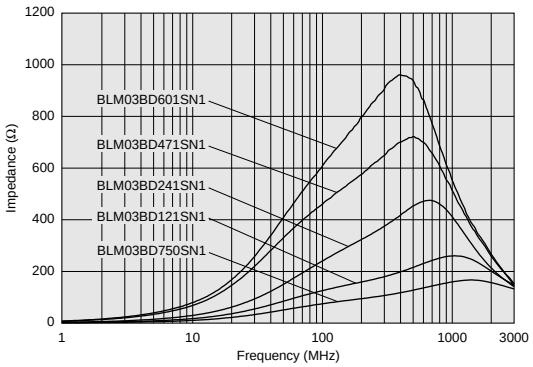
■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM03BD750SN1☐	75ohm±25%	300mA	0.4ohm max.	-55°C to +125°C	Kit
BLM03BD121SN1☐	120ohm±25%	250mA	0.5ohm max.	-55°C to +125°C	Kit
BLM03BD241SN1☐	240ohm±25%	200mA	0.8ohm max.	-55°C to +125°C	Kit
BLM03BD471SN1☐	470ohm±25%	215mA	1.5ohm max.	-55°C to +125°C	Kit
BLM03BD601SN1☐	600ohm±25%	200mA	1.7ohm max.	-55°C to +125°C	Kit
BLM03BB100SN1☐	10ohm±25%	300mA	0.4ohm max.	-55°C to +125°C	Kit
BLM03BB220SN1☐	22ohm±25%	200mA	0.5ohm max.	-55°C to +125°C	Kit
BLM03BB470SN1☐	47ohm±25%	200mA	0.7ohm max.	-55°C to +125°C	Kit
BLM03BB750SN1☐	75ohm±25%	200mA	1.0ohm max.	-55°C to +125°C	Kit
BLM03BB121SN1☐	120ohm±25%	100mA	1.5ohm max.	-55°C to +125°C	Kit
BLM03BC330SN1☐	33ohm±25%	150mA	0.85ohm max.	-55°C to +125°C	New Kit
BLM03BC560SN1☐	56ohm±25%	100mA	1.05ohm max.	-55°C to +125°C	New Kit
BLM03BC800SN1☐	80ohm±25%	100mA	1.40ohm max.	-55°C to +125°C	New Kit

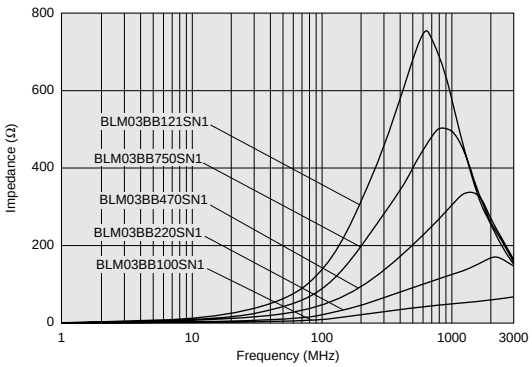
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

BLM03BD Series



BLM03BB Series



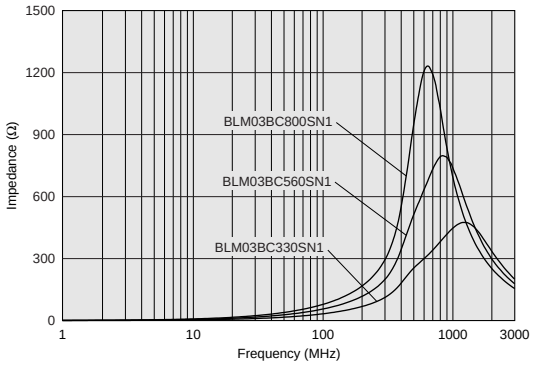
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BLM03B Series (0201 Size)

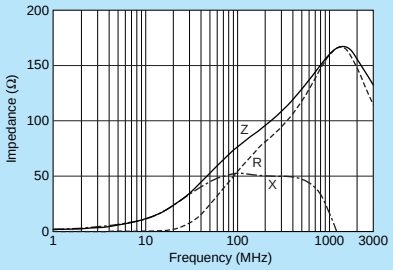
■ Impedance-Frequency Characteristics (Main Items)

BLM03BC Series

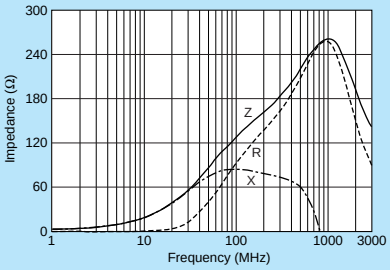


■ Impedance-Frequency Characteristics

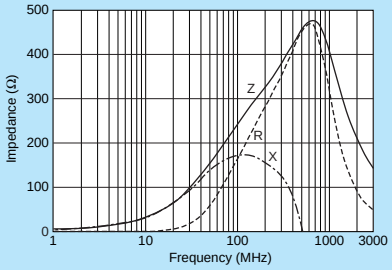
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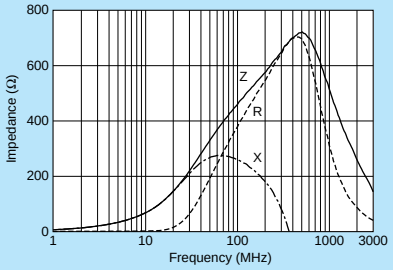
BLM03BD121SN1



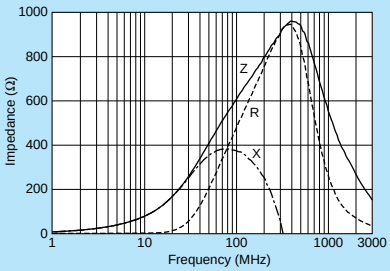
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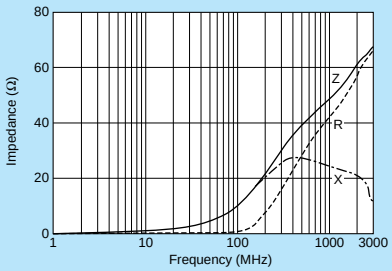
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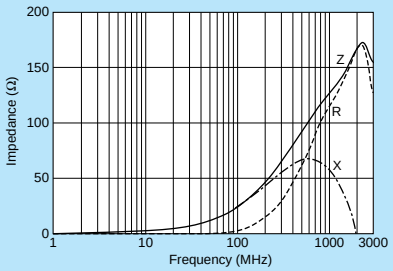
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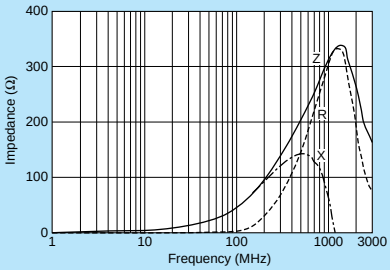
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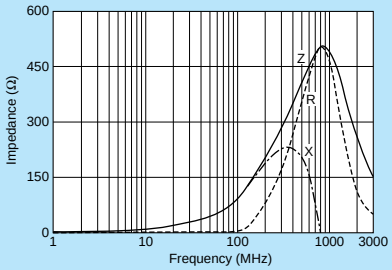
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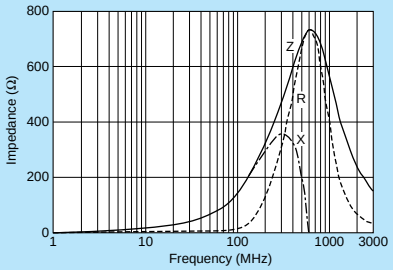
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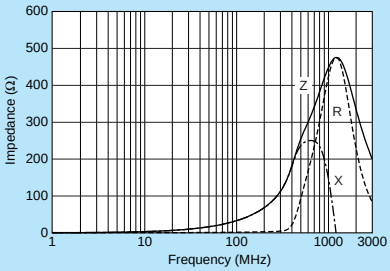
BLM03BB750SN1



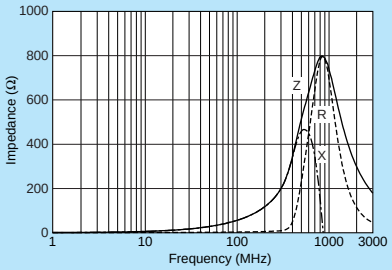
BLM03BB121SN1



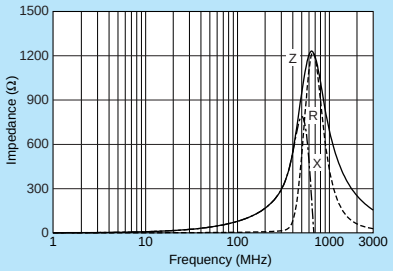
BLM03BC330SN1



BLM03BC560SN1



BLM03BC800SN1



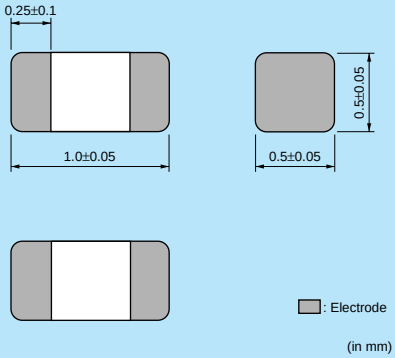
BLM15B Series (0402 Size)

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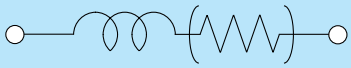
0402 size for high speed signal lines.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15BD750SN1☐	75ohm±25%	300mA	0.20ohm max.	-55°C to +125°C	Kit
BLM15BD121SN1☐	120ohm±25%	300mA	0.30ohm max.	-55°C to +125°C	Kit
BLM15BD221SN1☐	220ohm±25%	300mA	0.40ohm max.	-55°C to +125°C	Kit
BLM15BD471SN1☐	470ohm±25%	200mA	0.60ohm max.	-55°C to +125°C	Kit
BLM15BD601SN1☐	600ohm±25%	200mA	0.65ohm max.	-55°C to +125°C	Kit
BLM15BD102SN1☐	1000ohm±25%	200mA	0.90ohm max.	-55°C to +125°C	Kit
BLM15BD182SN1☐	1800ohm±25%	100mA	1.40ohm max.	-55°C to +125°C	Kit
BLM15BB050SN1☐	5ohm±25%	500mA	0.08ohm max.	-55°C to +125°C	Kit
BLM15BB100SN1☐	10ohm±25%	300mA	0.10ohm max.	-55°C to +125°C	Kit
BLM15BB220SN1☐	22ohm±25%	300mA	0.20ohm max.	-55°C to +125°C	Kit
BLM15BB470SN1☐	47ohm±25%	300mA	0.35ohm max.	-55°C to +125°C	Kit
BLM15BB750SN1☐	75ohm±25%	300mA	0.40ohm max.	-55°C to +125°C	Kit
BLM15BB121SN1☐	120ohm±25%	300mA	0.55ohm max.	-55°C to +125°C	Kit
BLM15BB221SN1☐	220ohm±25%	200mA	0.80ohm max.	-55°C to +125°C	Kit
BLM15BC121SN1☐	120ohm±25%	350mA	0.45ohm max.	-55°C to +125°C	Kit
BLM15BC241SN1☐	240ohm±25%	250mA	0.70ohm max.	-55°C to +125°C	Kit
BLM15BA050SN1☐	5ohm±25%	300mA	0.10ohm max.	-55°C to +125°C	Kit
BLM15BA100SN1☐	10ohm±25%	300mA	0.20ohm max.	-55°C to +125°C	Kit
BLM15BA220SN1☐	22ohm±25%	300mA	0.30ohm max.	-55°C to +125°C	Kit
BLM15BA330SN1☐	33ohm±25%	300mA	0.40ohm max.	-55°C to +125°C	Kit
BLM15BA470SN1☐	47ohm±25%	200mA	0.60ohm max.	-55°C to +125°C	Kit
BLM15BA750SN1☐	75ohm±25%	200mA	0.80ohm max.	-55°C to +125°C	Kit

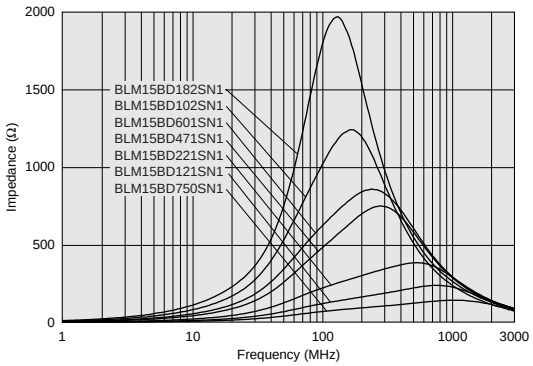
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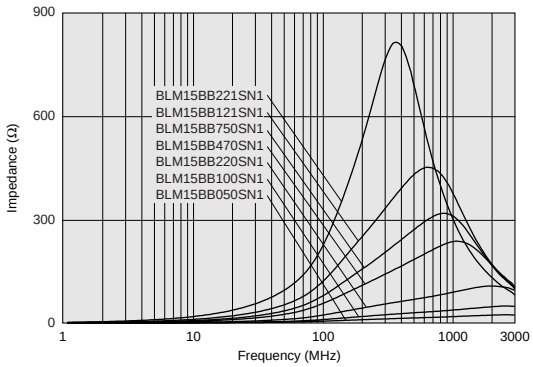
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■ Impedance-Frequency Characteristics (Main Items)

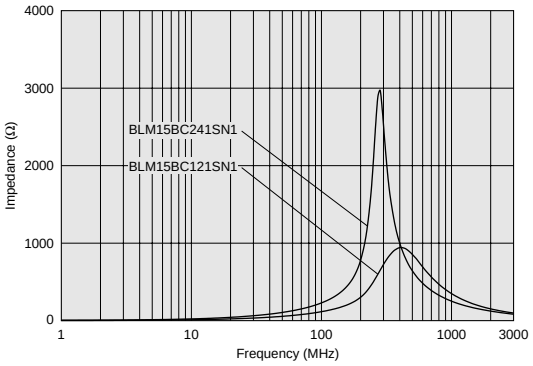
BLM15BD Series



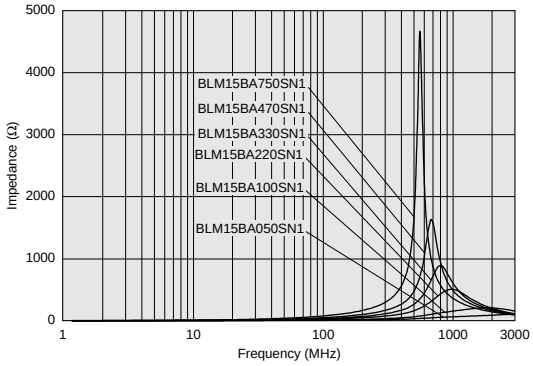
BLM15BB Series



BLM15BC Series

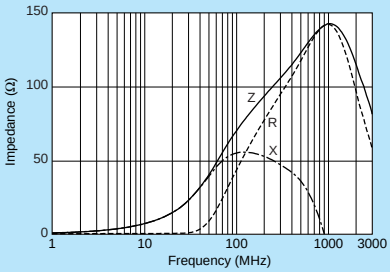


BLM15BA Series

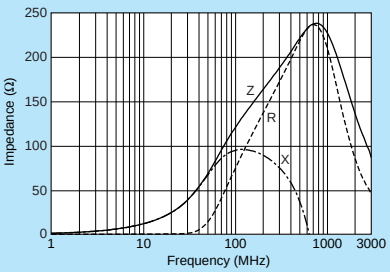


■ Impedance-Frequency Characteristics

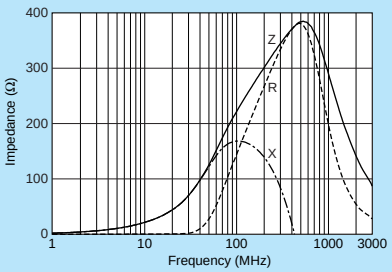
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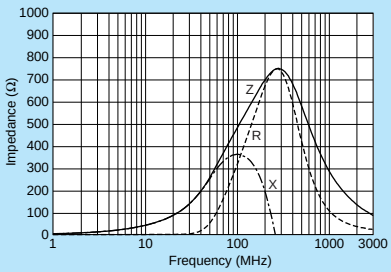
BLM15BD121SN1



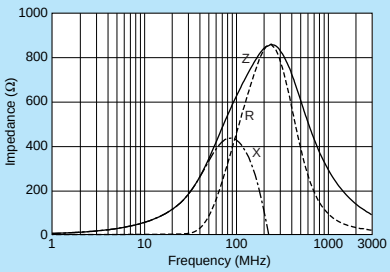
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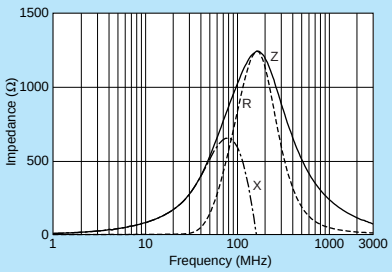
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BLM15BD601SN1



BLM15BD102SN1

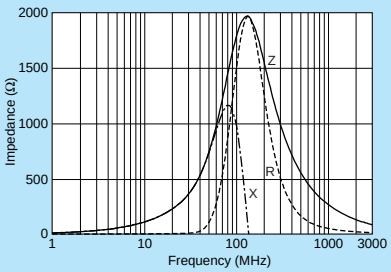


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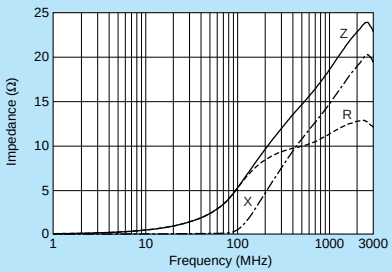
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■ Impedance-Frequency Characteristics

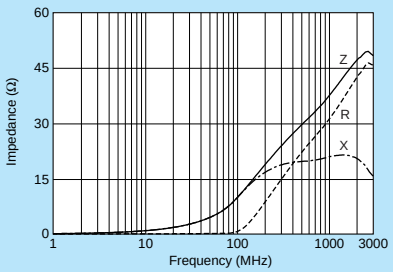
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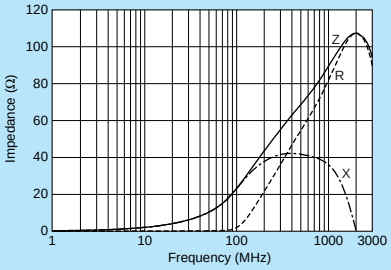
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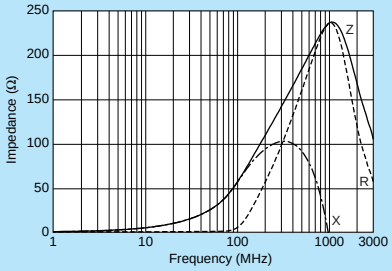
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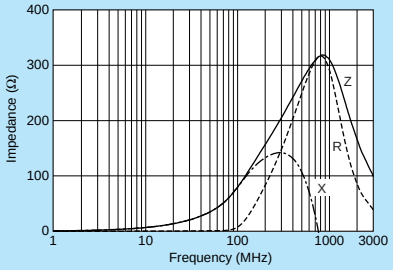
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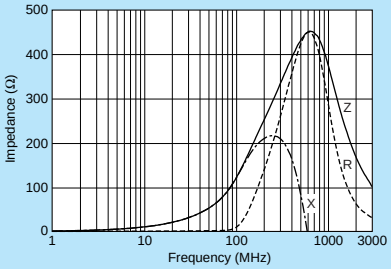
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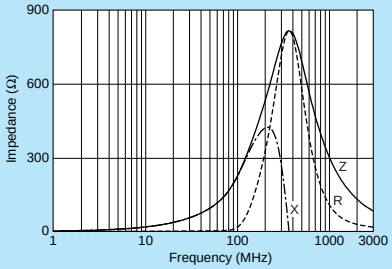
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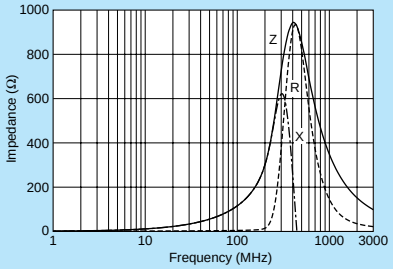
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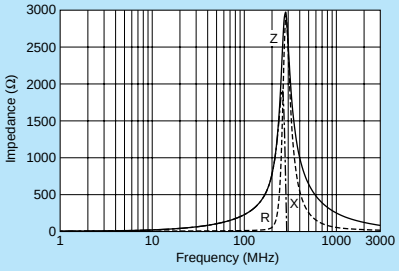
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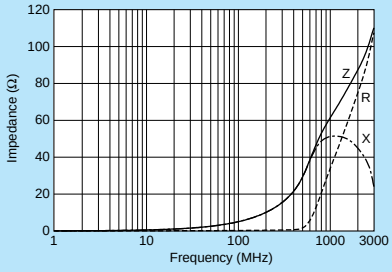
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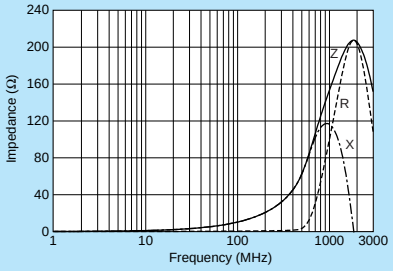
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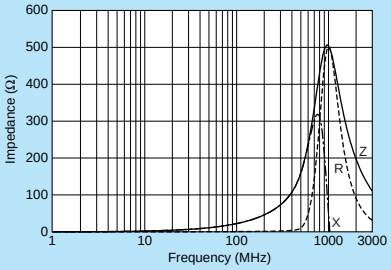
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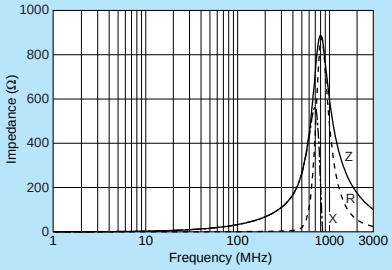
BLM15BA100SN1



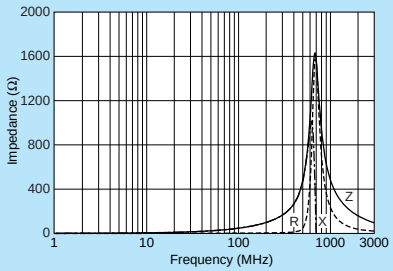
BLM15BA220SN1



BLM15BA330SN1



BLM15BA470SN1

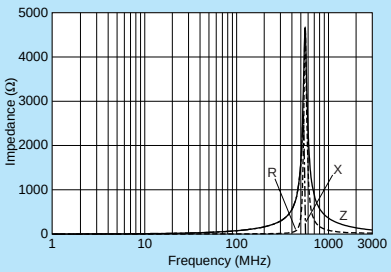


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■ Impedance-Frequency Characteristics

BLM15BA750SN1



BLM18B Series (0603 Size)

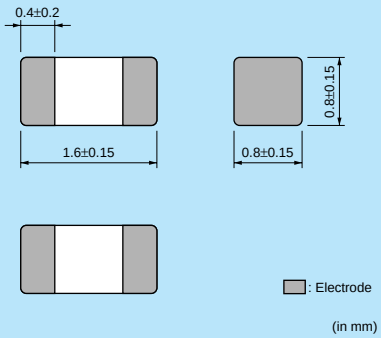
Flow OK Reflow OK

0603 size for high speed signal lines.

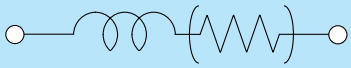
*Please refer to BLM15B for downsizing.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18BD470SN1☐	47ohm±25%	500mA	0.30ohm max.	-55°C to +125°C	Kit
BLM18BD121SN1☐	120ohm±25%	200mA	0.40ohm max.	-55°C to +125°C	Kit
BLM18BD151SN1☐	150ohm±25%	200mA	0.40ohm max.	-55°C to +125°C	Kit
BLM18BD221SN1☐	220ohm±25%	200mA	0.45ohm max.	-55°C to +125°C	Kit
BLM18BD331SN1☐	330ohm±25%	200mA	0.50ohm max.	-55°C to +125°C	Kit
BLM18BD421SN1☐	420ohm±25%	200mA	0.55ohm max.	-55°C to +125°C	Kit
BLM18BD471SN1☐	470ohm±25%	200mA	0.55ohm max.	-55°C to +125°C	Kit
BLM18BD601SN1☐	600ohm±25%	200mA	0.65ohm max.	-55°C to +125°C	Kit
BLM18BD102SN1☐	1000ohm±25%	100mA	0.85ohm max.	-55°C to +125°C	Kit
BLM18BD152SN1☐	1500ohm±25%	50mA	1.20ohm max.	-55°C to +125°C	Kit
BLM18BD182SN1☐	1800ohm±25%	50mA	1.50ohm max.	-55°C to +125°C	Kit
BLM18BD222SN1☐	2200ohm±25%	50mA	1.50ohm max.	-55°C to +125°C	Kit
BLM18BD252SN1☐	2500ohm±25%	50mA	1.50ohm max.	-55°C to +125°C	Kit
BLM18BB050SN1☐	5ohm±25%	700mA	0.05ohm max.	-55°C to +125°C	Kit
BLM18BB100SN1☐	10ohm±25%	700mA	0.10ohm max.	-55°C to +125°C	Kit
BLM18BB220SN1☐	22ohm±25%	600mA	0.20ohm max.	-55°C to +125°C	Kit
BLM18BB470SN1☐	47ohm±25%	550mA	0.25ohm max.	-55°C to +125°C	Kit
BLM18BB600SN1☐	60ohm±25%	550mA	0.25ohm max.	-55°C to +125°C	Kit
BLM18BB750SN1☐	75ohm±25%	500mA	0.30ohm max.	-55°C to +125°C	Kit
BLM18BB121SN1☐	120ohm±25%	500mA	0.30ohm max.	-55°C to +125°C	Kit
BLM18BB141SN1☐	140ohm±25%	450mA	0.35ohm max.	-55°C to +125°C	
BLM18BB151SN1☐	150ohm±25%	450mA	0.37ohm max.	-55°C to +125°C	Kit
BLM18BB221SN1☐	220ohm±25%	450mA	0.45ohm max.	-55°C to +125°C	Kit
BLM18BB331SN1☐	330ohm±25%	400mA	0.58ohm max.	-55°C to +125°C	Kit
BLM18BB471SN1☐	470ohm±25%	300mA	0.85ohm max.	-55°C to +125°C	Kit
BLM18BA050SN1☐	5ohm±25%	500mA	0.20ohm max.	-55°C to +125°C	Kit
BLM18BA100SN1☐	10ohm±25%	500mA	0.25ohm max.	-55°C to +125°C	Kit
BLM18BA220SN1☐	22ohm±25%	500mA	0.35ohm max.	-55°C to +125°C	
BLM18BA470SN1☐	47ohm±25%	300mA	0.55ohm max.	-55°C to +125°C	Kit
BLM18BA750SN1☐	75ohm±25%	300mA	0.70ohm max.	-55°C to +125°C	Kit
BLM18BA121SN1☐	120ohm±25%	200mA	0.90ohm max.	-55°C to +125°C	Kit

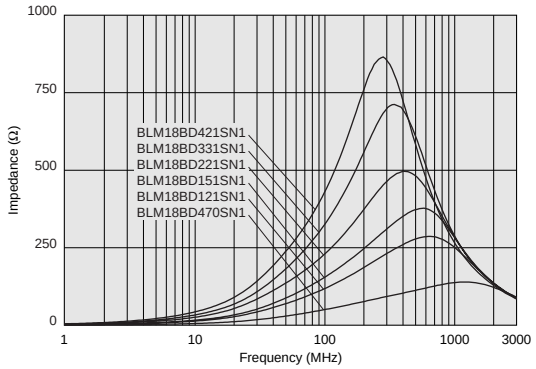
Number of Circuits: 1

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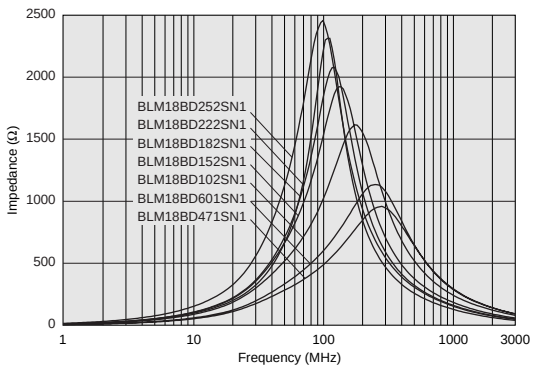
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

■ Impedance-Frequency Characteristics (Main Items)

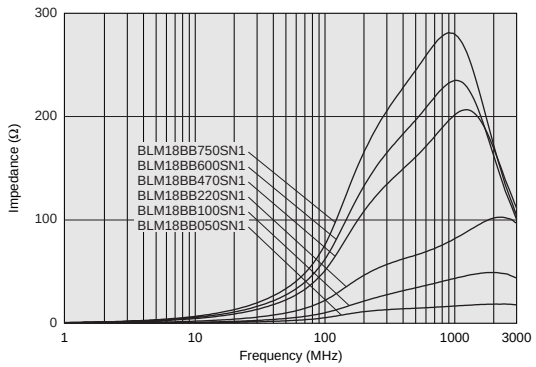
BLM18BD Series (47ohm to 420ohm)



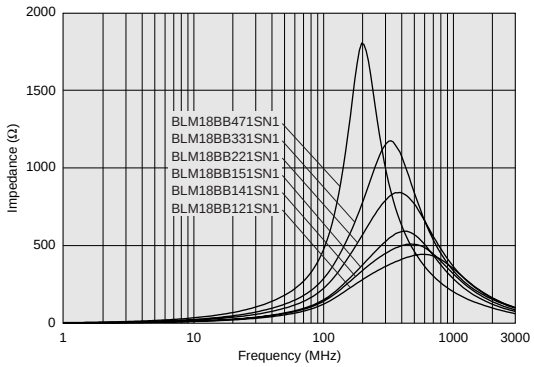
BLM18BD Series (470ohm to 2500ohm)



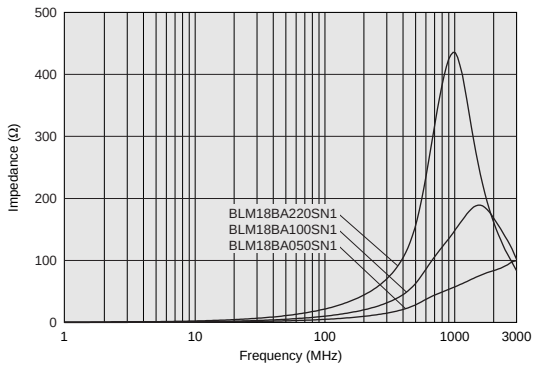
BLM18BB Series (5ohm to 75ohm)



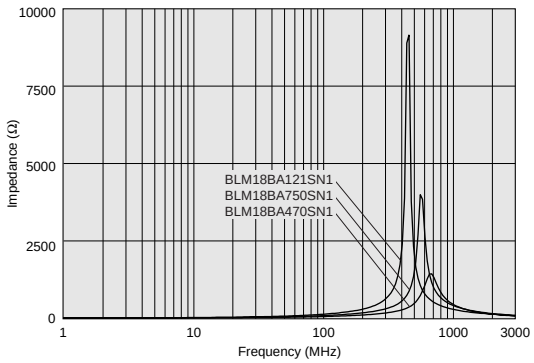
BLM18BB Series (120ohm to 470ohm)



BLM18BA Series (5ohm to 22ohm)

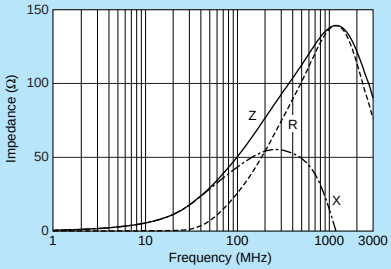


BLM18BA Series (47ohm to 120ohm)

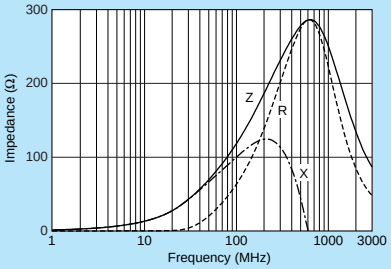


■ Impedance-Frequency Characteristics

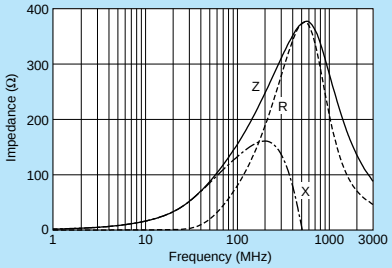
BLM18BD470SN1



BLM18BD121SN1



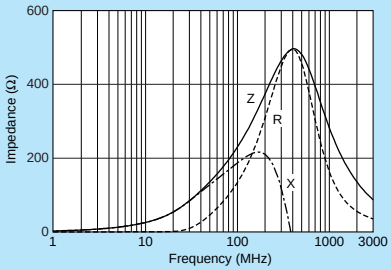
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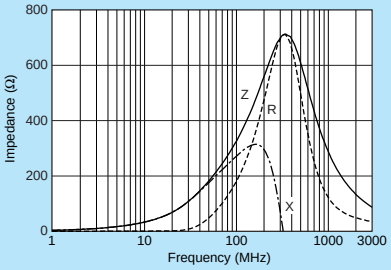
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■ Impedance-Frequency Characteristics

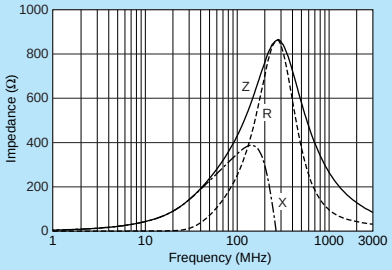
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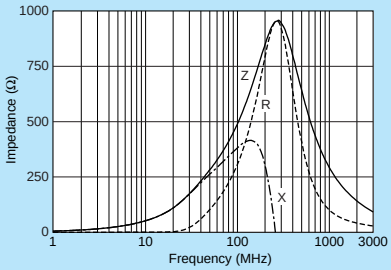
BLM18BD331SN1



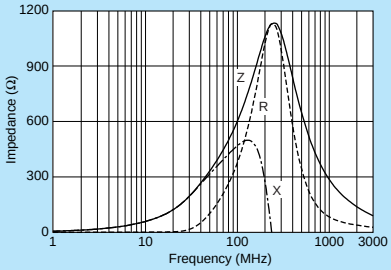
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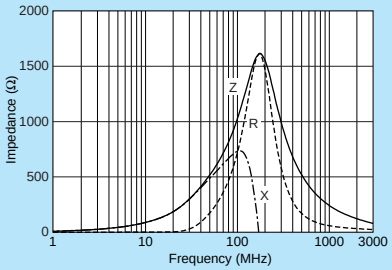
BLM18BD471SN1



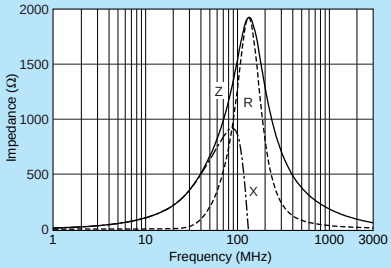
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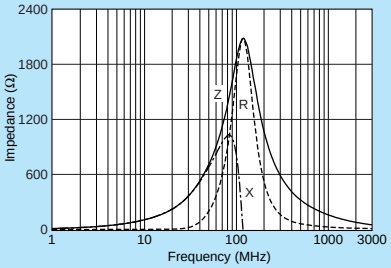
BLM18BD102SN1



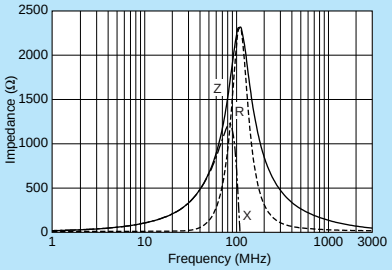
BLM18BD152SN1



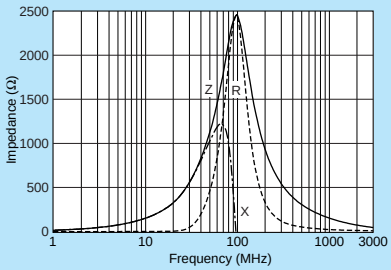
BLM18BD182SN1



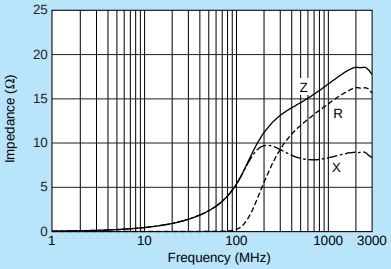
BLM18BD222SN1



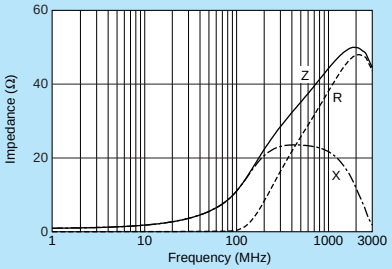
BLM18BD252SN1



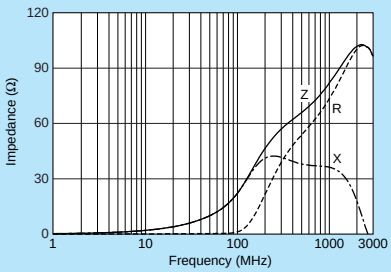
BLM18BB050SN1



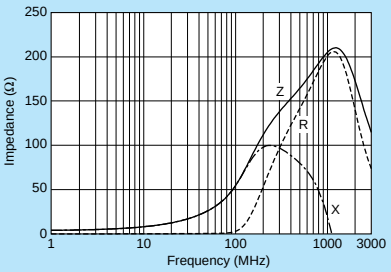
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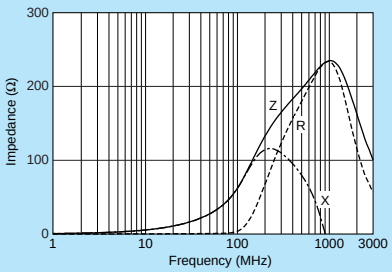
BLM18BB220SN1



BLM18BB470SN1



BLM18BB600SN1

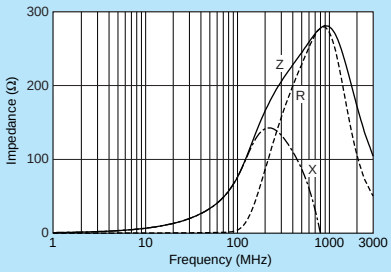


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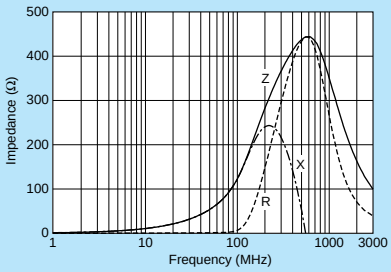
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

■ Impedance-Frequency Characteristics

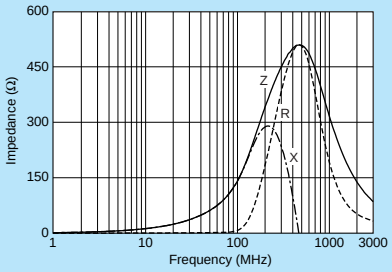
BLM18BB750SN1



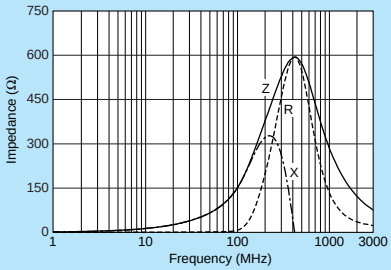
BLM18BB121SN1



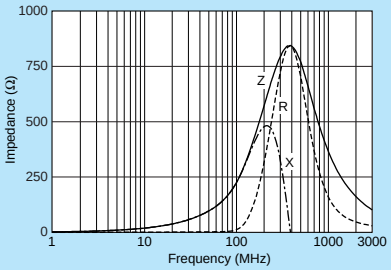
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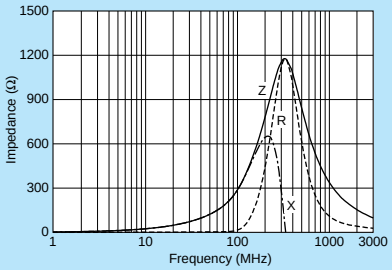
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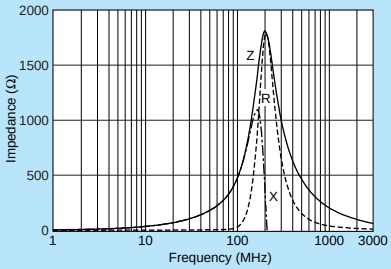
BLM18BB221SN1



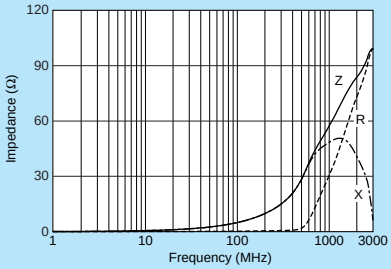
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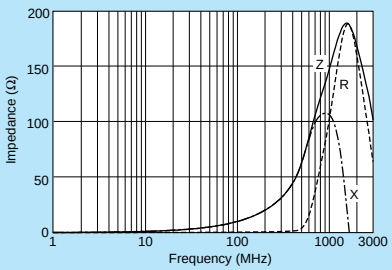
BLM18BB471SN1



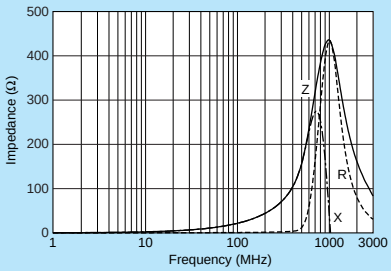
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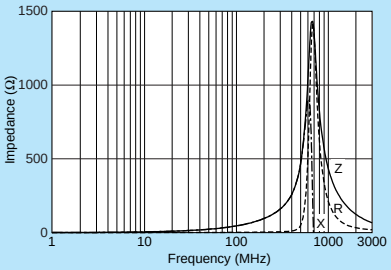
BLM18BA100SN1



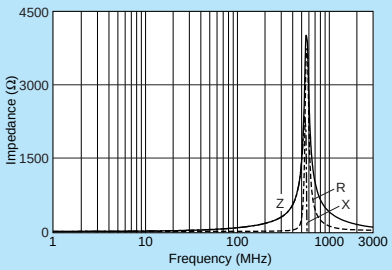
BLM18BA220SN1



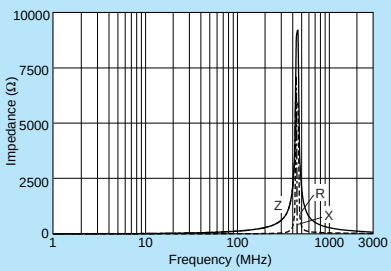
BLM18BA470SN1



BLM18BA750SN1



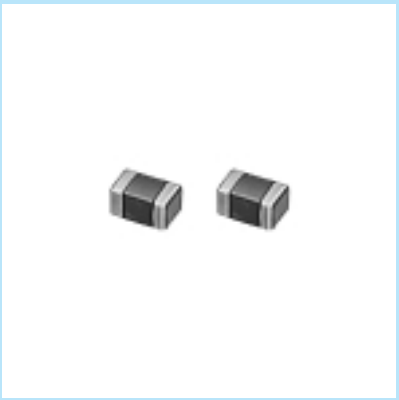
BLM18BA121SN1



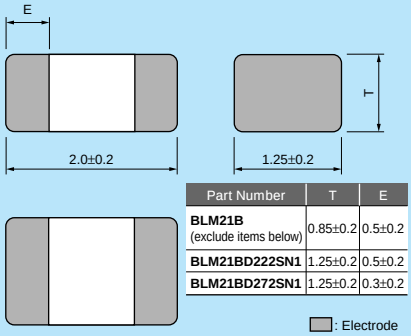
BLM21B Series (0805 Size)

Flow OK Reflow OK

0805 size for high speed signal lines.



■ Dimensions

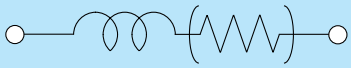


Part Number	T	E
BLM21B (exclude items below)	0.85±0.2	0.5±0.2
BLM21BD222SN1	1.25±0.2	0.5±0.2
BLM21BD272SN1	1.25±0.2	0.3±0.2

: Electrode

(in mm)

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

• All except **BLM21BD222SN1/21BD272SN1**

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

• **BLM21BD222SN1/21BD272SN1** only

Code	Packaging	Minimum Quantity
L	180mm Reel Plastic Tape	3000
K	330mm Reel Plastic Tape	10000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (□: packaging code)

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

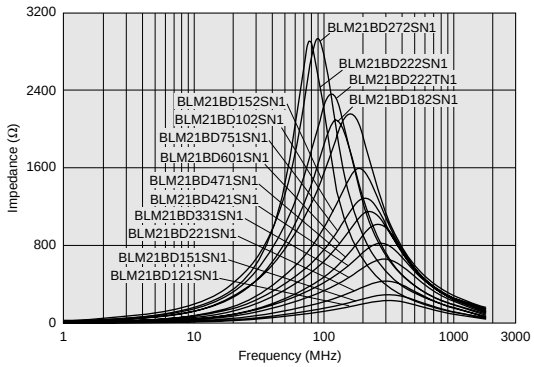
Number of Circuits: 1

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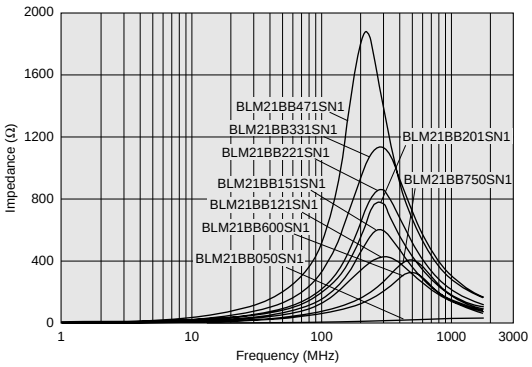
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■ Impedance-Frequency Characteristics (Main Items)

BLM21BD Series

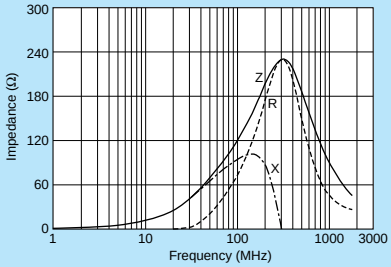


BLM21BB Series

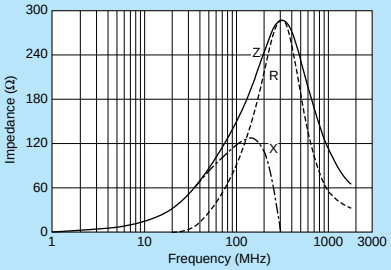


■ Impedance-Frequency Characteristics

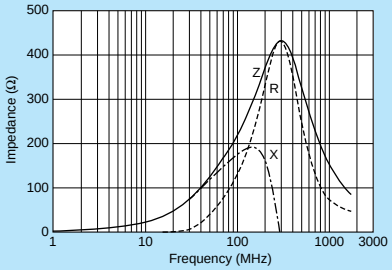
BLM21BD121SN1



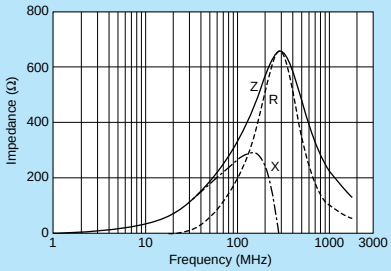
BLM21BD151SN1



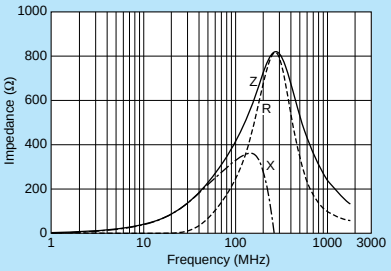
BLM21BD221SN1



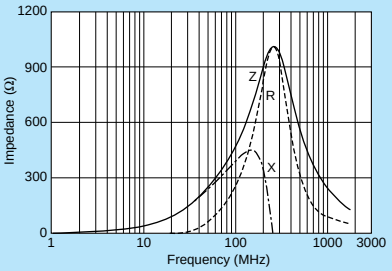
BLM21BD331SN1



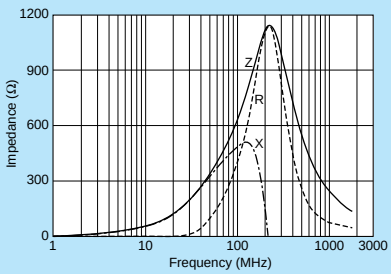
BLM21BD421SN1



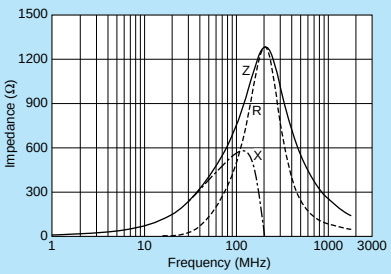
BLM21BD471SN1



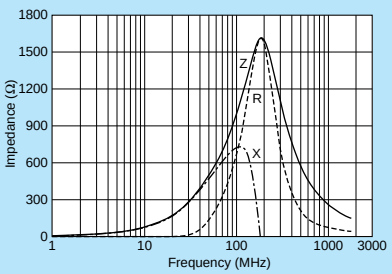
BLM21BD601SN1



BLM21BD751SN1



BLM21BD102SN1

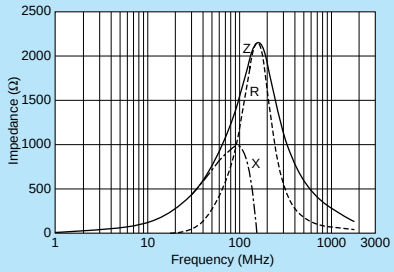


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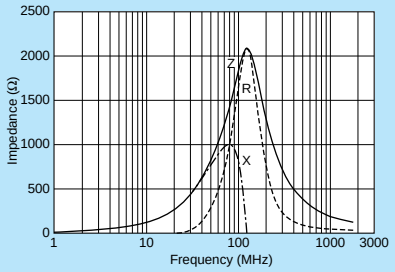
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■ Impedance-Frequency Characteristics

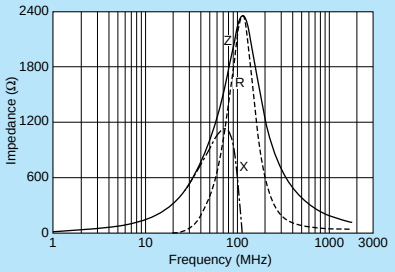
BLM21BD152SN1



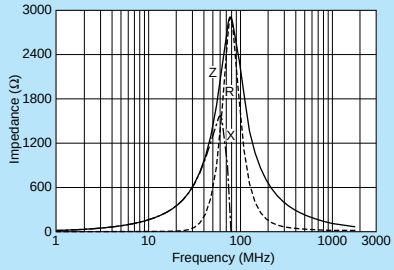
BLM21BD182SN1



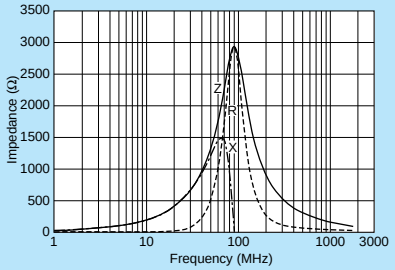
BLM21BD222TN1



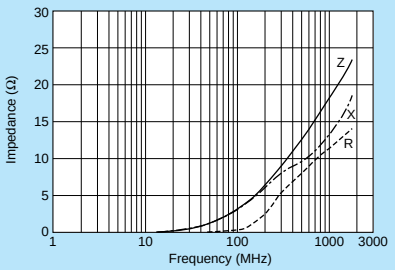
BLM21BD222SN1



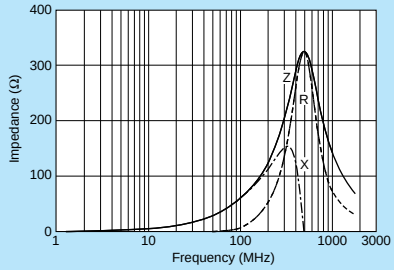
BLM21BD272SN1



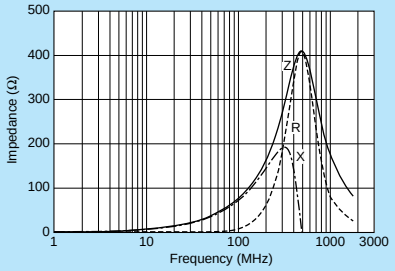
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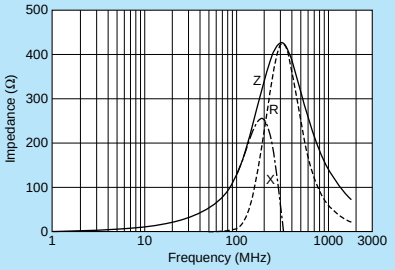
BLM21BB600SN1



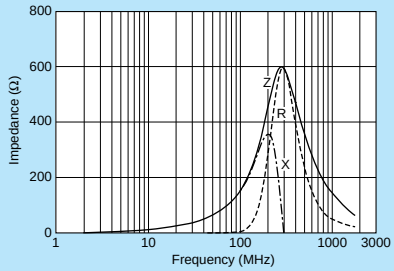
BLM21BB750SN1



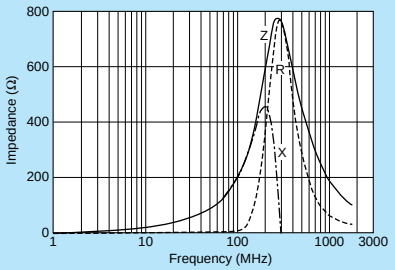
BLM21BB121SN1



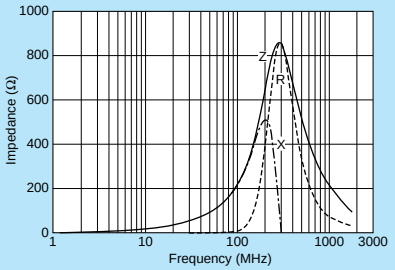
BLM21BB151SN1



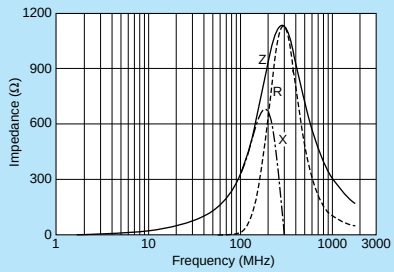
BLM21BB201SN1



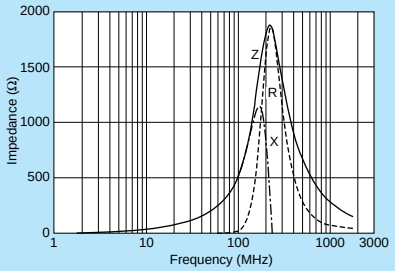
BLM21BB221SN1



BLM21BB331SN1



BLM21BB471SN1



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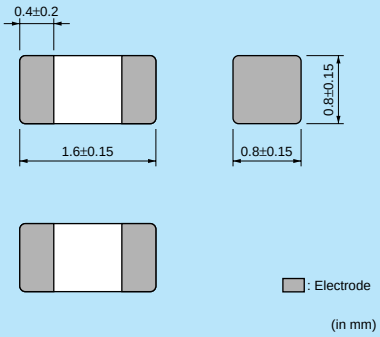
BLM18R Series (0603 Size)

Flow OK Reflow OK

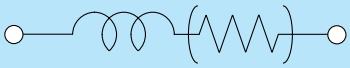
For digital I/F. Reduce the distortion of waveform created by resonance.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

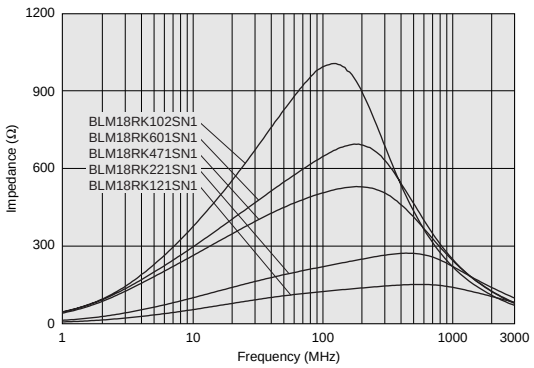
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

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

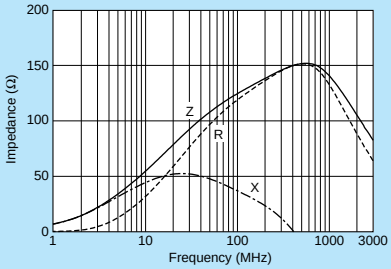
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

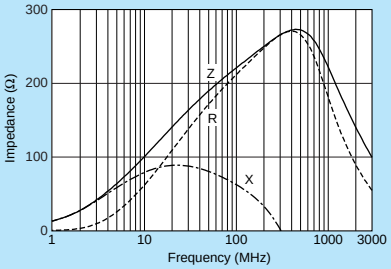


■ Impedance-Frequency Characteristics

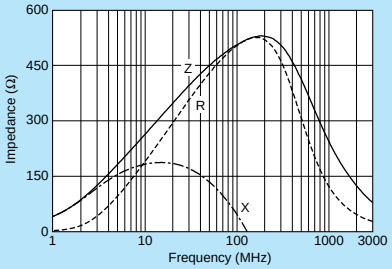
BLM18RK121SN1



BLM18RK221SN1



BLM18RK471SN1

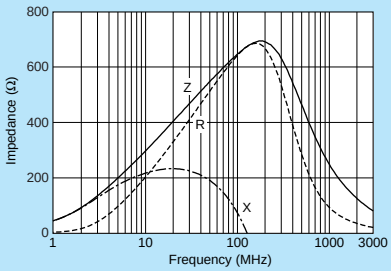


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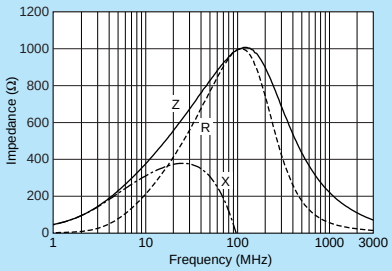
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Impedance-Frequency Characteristics

BLM18RK601SN1



BLM18RK102SN1



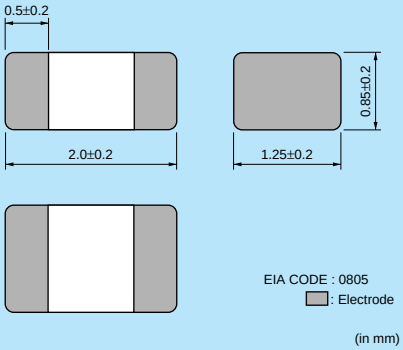
BLM21R Series (0805 Size)

Flow OK Reflow OK

For digital I/F. Reduce the distortion of waveform created by resonance.



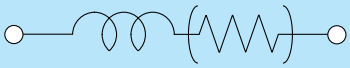
■ Dimensions



EIA CODE : 0805
: Electrode

(in mm)

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

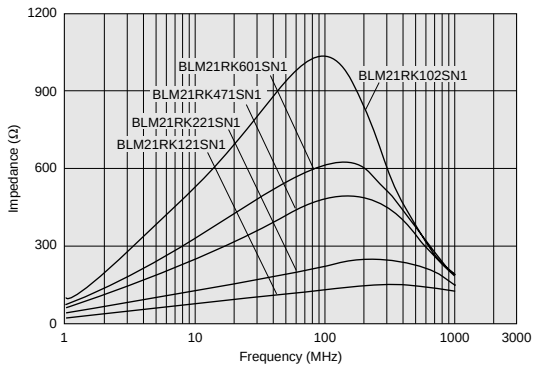
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (□: packaging code)

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

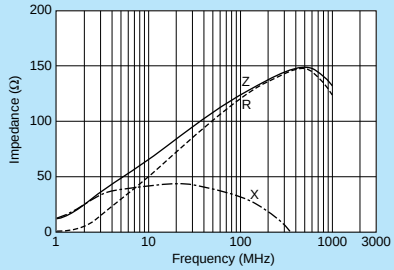
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

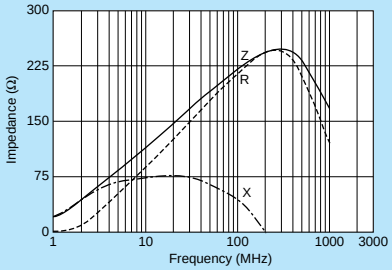


■ Impedance-Frequency Characteristics

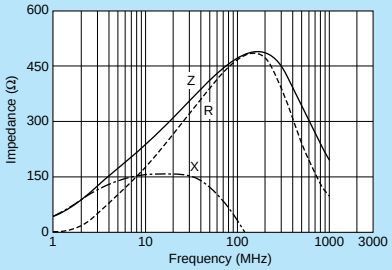
BLM21RK121SN1



BLM21RK221SN1



BLM21RK471SN1

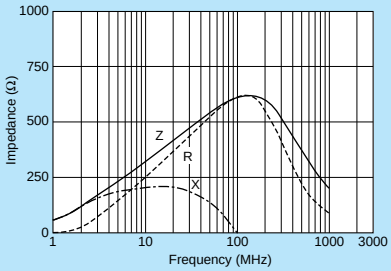


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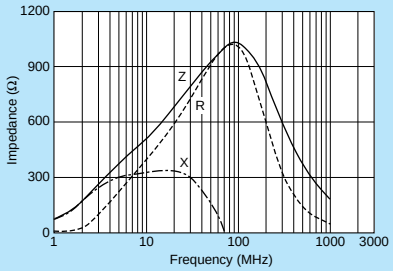
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Impedance-Frequency Characteristics

BLM21RK601SN1

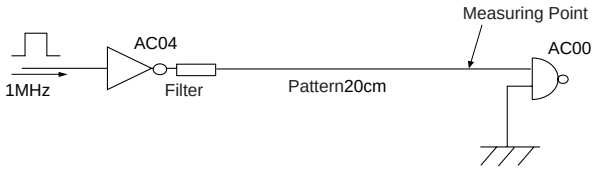


BLM21RK102SN1



Waveform Distortion Suppressing Performance of BLM□□R Series

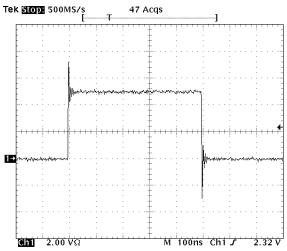
Measuring Circuits

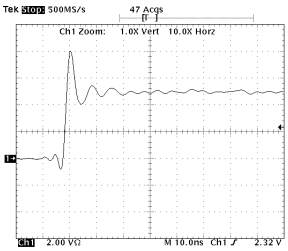


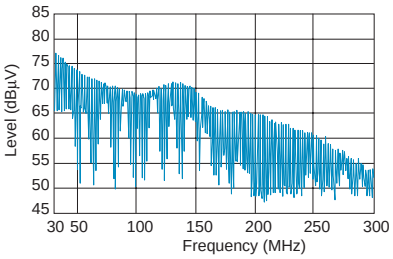
Type of Filter	EMI Suppression Effect / Description

Initial (No filter)

Signal waveform (100nsec/div, 2V/div) | Expand (10nsec/div, 2V/div) | Spectrum



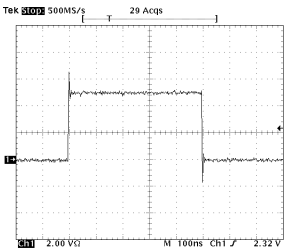


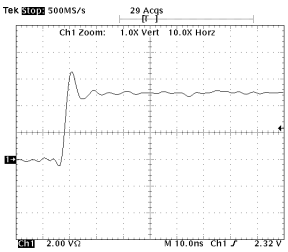


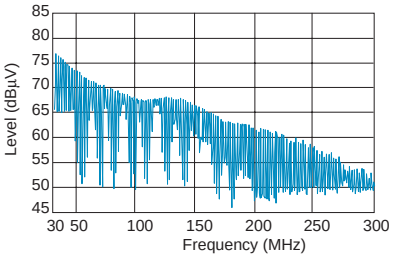
Ringing is caused on the signal waveform.
Such ringing contains several hundred MHz harmonic components and generates noise.

Resister (47Ω) is used

Signal waveform (100nsec/div, 2V/div) | Expand (10nsec/div, 2V/div) | Spectrum



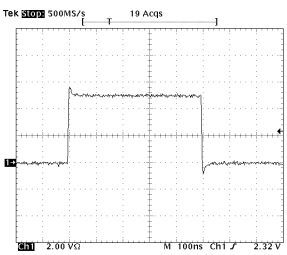


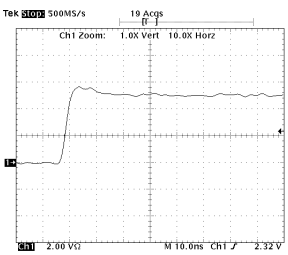


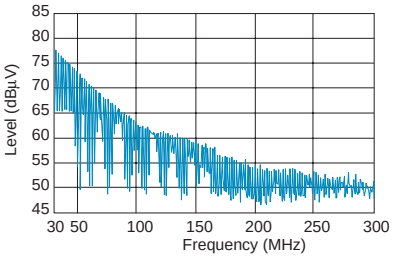
Comparing initial waveform, ringing is suppressed a little.
However there still remains high level waveform distortion.

BLM18RK221SN1 (220Ω at 100MHz) is used

Signal waveform (100nsec/div, 2V/div) | Expand (10nsec/div, 2V/div) | Spectrum







BLM18R has excellent performance for noise suppression and waveform distortion suppression.
BLM18R suppresses drastically not only spectrum level in more than 100MHz range but waveform distortion.

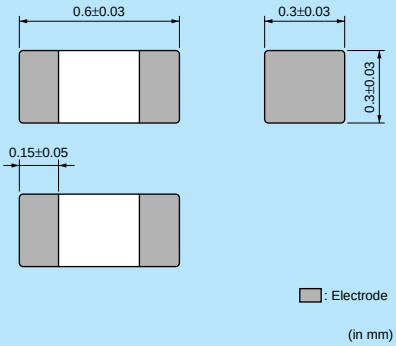
BLM03H Series (0201 Size)

GHz Reflow OK

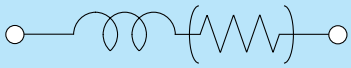
0201 size for GHz band noise.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	15000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

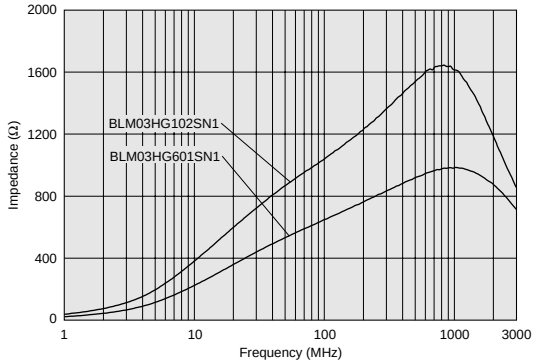
■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM03HG601SN1☐	600ohm±25%	1000ohm±40%	150mA	1.6ohm max.	-55°C to +125°C	Kit
BLM03HG102SN1☐	1000ohm±25%	1800ohm±40%	125mA	2.6ohm max.	-55°C to +125°C	Kit
BLM03HD331SN1☐	330ohm±25%	750ohm±40%	200mA	1.0ohm max.	-55°C to +125°C	New Kit
BLM03HD471SN1☐	470ohm±25%	1000ohm±40%	175mA	1.3ohm max.	-55°C to +125°C	New Kit
BLM03HD601SN1☐	600ohm±25%	1500ohm±40%	150mA	1.7ohm max.	-55°C to +125°C	New Kit
BLM03HD102SN1☐	1000ohm±25%	2300ohm±40%	120mA	2.9ohm max.	-55°C to +125°C	New Kit

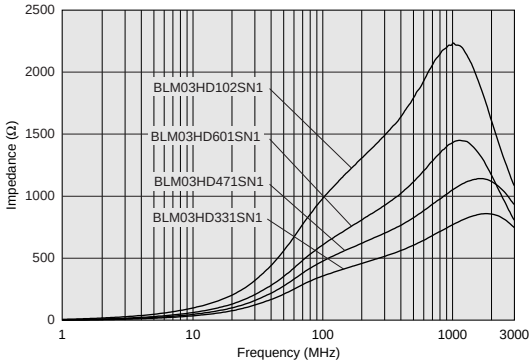
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

BLM03HG Series

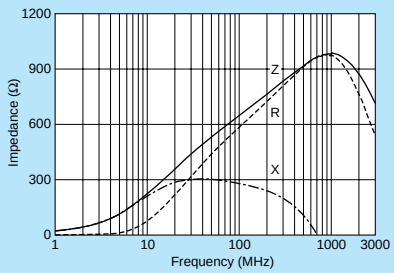


BLM03HD Series

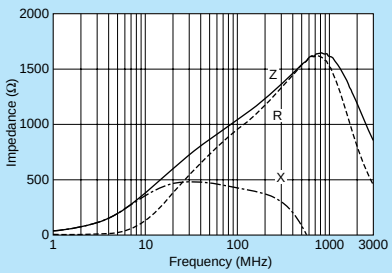


■ Impedance-Frequency Characteristics

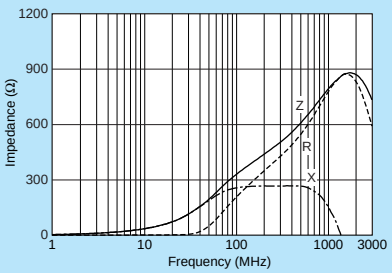
BLM03HG601SN1



BLM03HG102SN1



BLM03HD331SN1

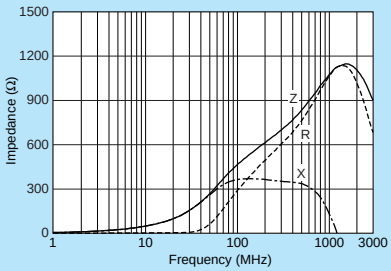


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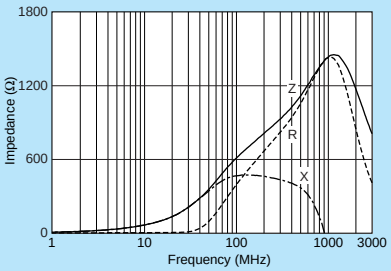
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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■ Impedance-Frequency Characteristics

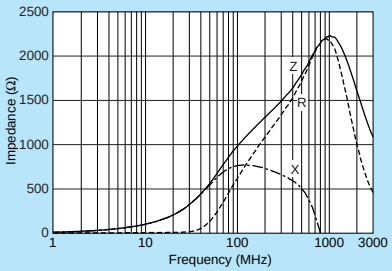
BLM03HD471SN1



BLM03HD601SN1



BLM03HD102SN1



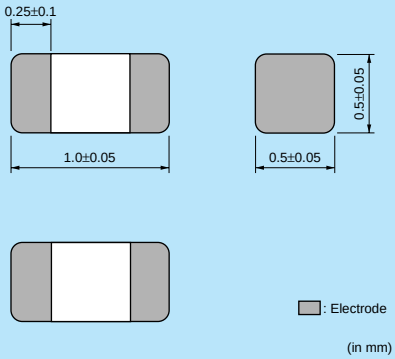
BLM15H Series (0402 Size)

GHz Reflow OK

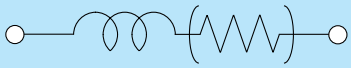
0402 size for GHz band noise.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

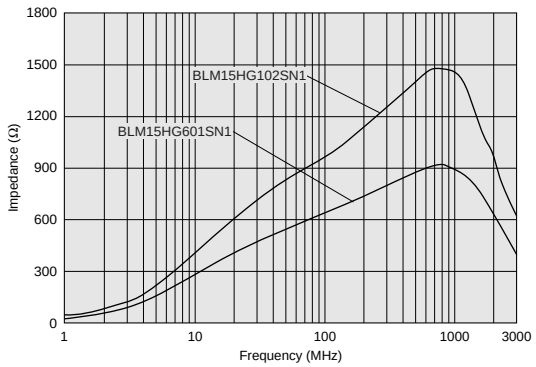
■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15HG601SN1☐	600ohm±25%	1000ohm±40%	300mA	0.7ohm max.	-55°C to +125°C	Kit
BLM15HG102SN1☐	1000ohm±25%	1400ohm±40%	250mA	1.1ohm max.	-55°C to +125°C	Kit
BLM15HD601SN1☐	600ohm±25%	1400ohm±40%	300mA	0.85ohm max.	-55°C to +125°C	Kit
BLM15HD102SN1☐	1000ohm±25%	2000ohm±40%	250mA	1.25ohm max.	-55°C to +125°C	Kit
BLM15HD182SN1☐	1800ohm±25%	2700ohm±40%	200mA	2.2ohm max.	-55°C to +125°C	Kit
BLM15HB121SN1☐	120ohm±25%	500ohm±40%	300mA	0.7ohm max.	-55°C to +125°C	Kit
BLM15HB221SN1☐	220ohm±25%	900ohm±40%	250mA	1.0ohm max.	-55°C to +125°C	Kit

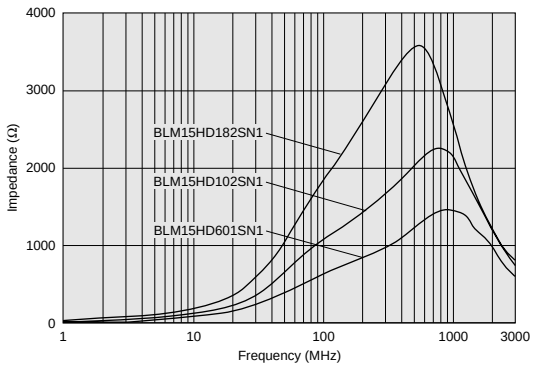
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

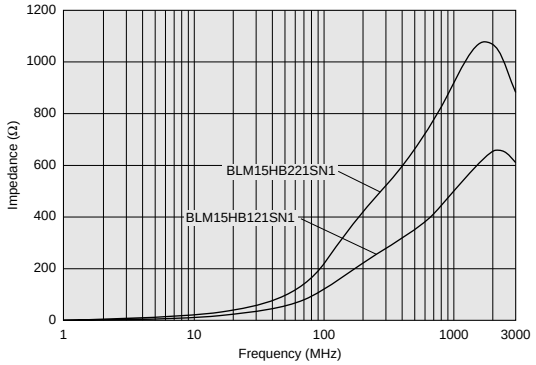
BLM15HG Series (For General Signal Lines)



BLM15HD Series (For High Speed Signal Lines)



BLM15HB Series (For High Speed Signal Lines)

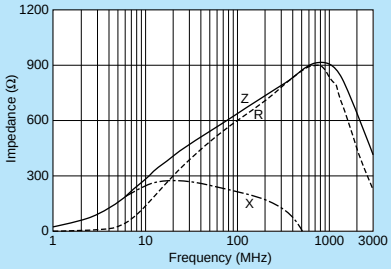


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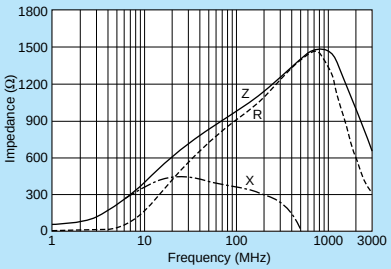
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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■ Impedance-Frequency Characteristics

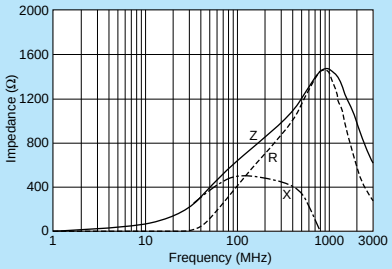
BLM15HG601SN1



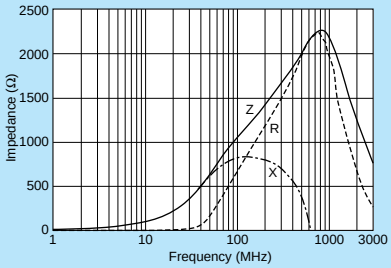
BLM15HG102SN1



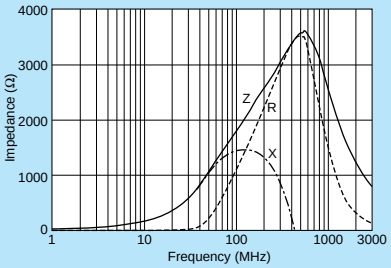
BLM15HD601SN1



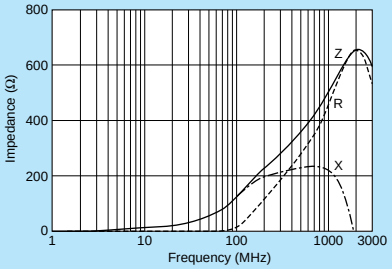
BLM15HD102SN1



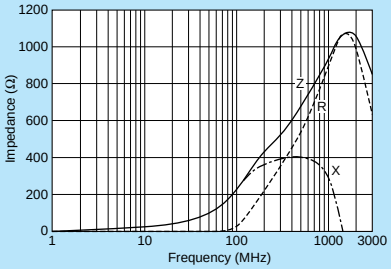
BLM15HD182SN1



BLM15HB121SN1



BLM15HB221SN1



BLM18H Series (0603 Size)

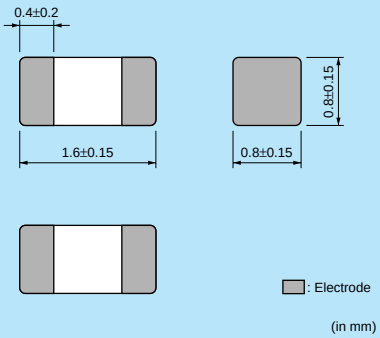
GHz Flow OK Reflow OK

0603 size for GHz band noise.

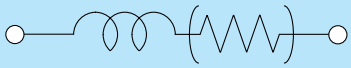
*Please refer to BLM15H for downsizing.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

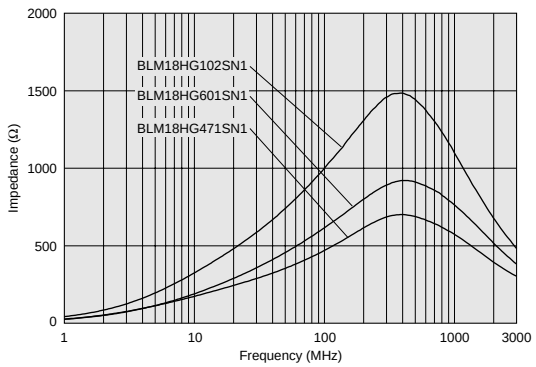
■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18HG471SN1☐	470ohm±25%	600ohm(Typ.)	200mA	0.85ohm max.	-55°C to +125°C	Kit
BLM18HG601SN1☐	600ohm±25%	700ohm(Typ.)	200mA	1.00ohm max.	-55°C to +125°C	Kit
BLM18HG102SN1☐	1000ohm±25%	1000ohm(Typ.)	100mA	1.60ohm max.	-55°C to +125°C	Kit
BLM18HE601SN1☐	600ohm±25%	600ohm(Typ.)	800mA	0.25ohm max.	-55°C to +125°C	Kit
BLM18HE102SN1☐	1000ohm±25%	1000ohm(Typ.)	600mA	0.35ohm max.	-55°C to +125°C	Kit
BLM18HE152SN1☐	1500ohm±25%	1500ohm(Typ.)	500mA	0.50ohm max.	-55°C to +125°C	Kit
BLM18HD471SN1☐	470ohm±25%	1000ohm(Typ.)	100mA	1.20ohm max.	-55°C to +125°C	Kit
BLM18HD601SN1☐	600ohm±25%	1200ohm(Typ.)	100mA	1.50ohm max.	-55°C to +125°C	Kit
BLM18HD102SN1☐	1000ohm±25%	1700ohm(Typ.)	50mA	1.80ohm max.	-55°C to +125°C	Kit
BLM18HB121SN1☐	120ohm±25%	500ohm±40%	200mA	0.50ohm max.	-55°C to +125°C	Kit
BLM18HB221SN1☐	220ohm±25%	1100ohm±40%	100mA	0.80ohm max.	-55°C to +125°C	Kit
BLM18HB331SN1☐	330ohm±25%	1600ohm±40%	50mA	1.20ohm max.	-55°C to +125°C	Kit
BLM18HK331SN1☐	330ohm±25%	400ohm±40%	200mA	0.50ohm max.	-55°C to +125°C	Kit
BLM18HK471SN1☐	470ohm±25%	600ohm±40%	200mA	0.70ohm max.	-55°C to +125°C	Kit
BLM18HK601SN1☐	600ohm±25%	700ohm±40%	100mA	0.90ohm max.	-55°C to +125°C	Kit
BLM18HK102SN1☐	1000ohm±25%	1200ohm±40%	50mA	1.50ohm max.	-55°C to +125°C	Kit

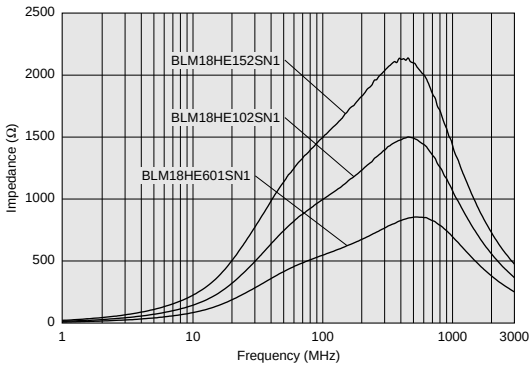
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

BLM18HG Series (For General Signal Lines)



BLM18HE Series (For High Speed Signal Lines)

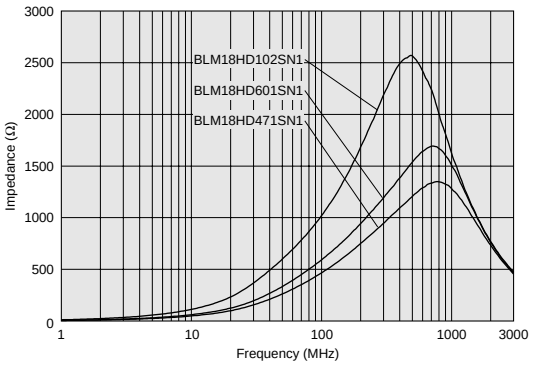


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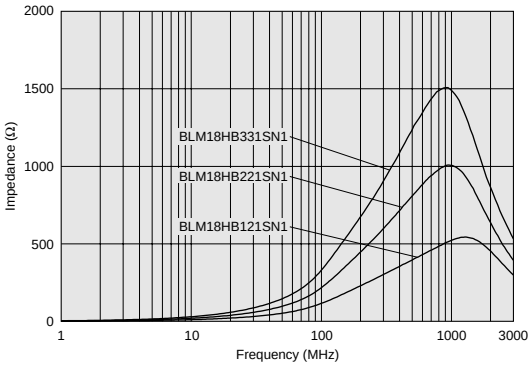
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■ Impedance-Frequency Characteristics (Main Items)

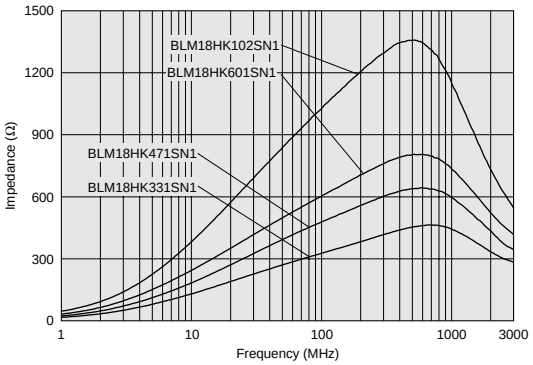
BLM18HD Series (For High Speed Signal Lines)



BLM18HB Series (For High Speed Signal Lines)



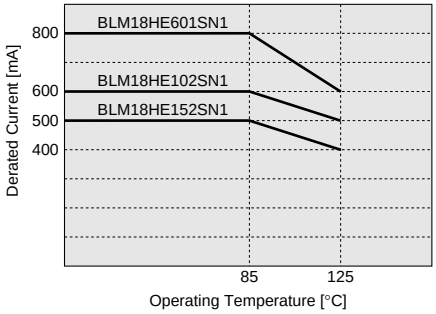
BLM18HK Series (For Digital Interface Lines)



■ Notice (Rating)

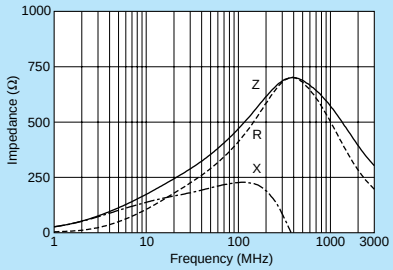
In operating temperature exceeding +85°C, derating of current is necessary for BLM18HE series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating

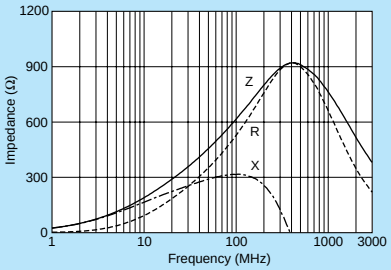


■ Impedance-Frequency Characteristics

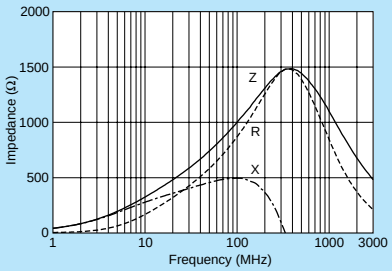
BLM18HG471SN1



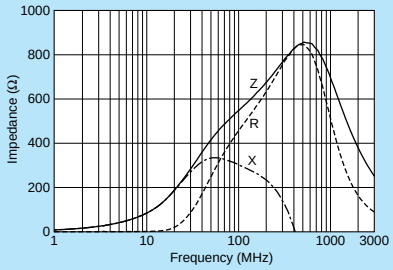
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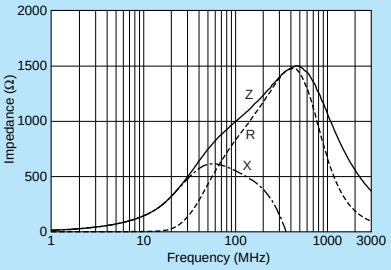
BLM18HG102SN1



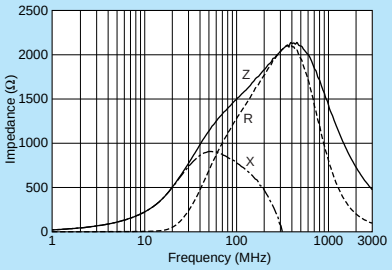
BLM18HE601SN1



BLM18HE102SN1



BLM18HE152SN1

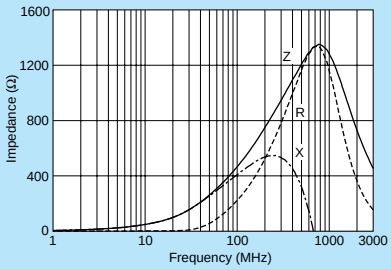


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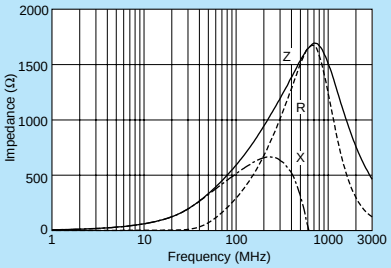
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■ Impedance-Frequency Characteristics

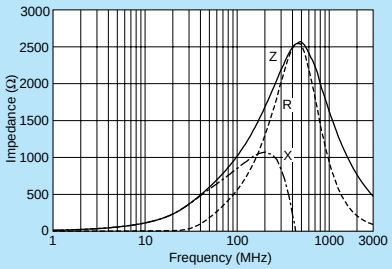
BLM18HD471SN1



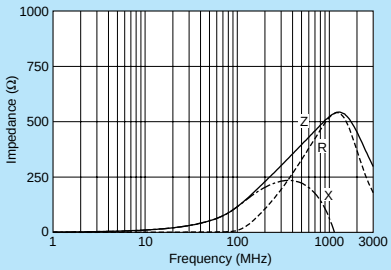
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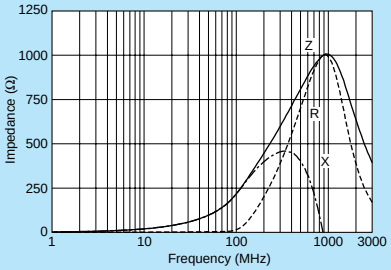
BLM18HD102SN1



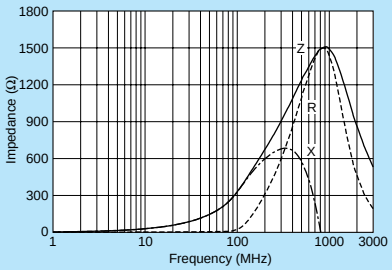
BLM18HB121SN1



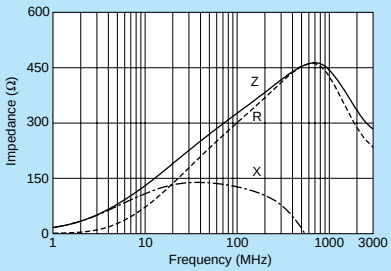
BLM18HB221SN1



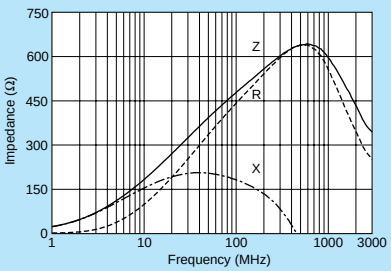
BLM18HB331SN1



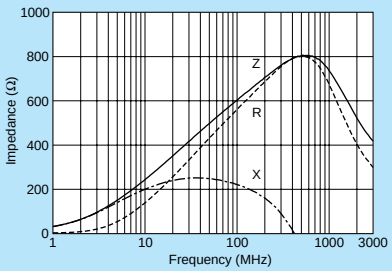
BLM18HK331SN1



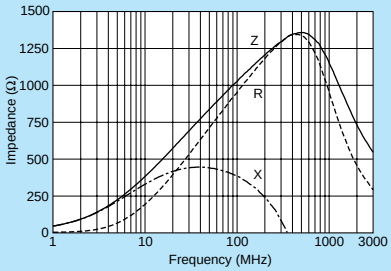
BLM18HK471SN1



BLM18HK601SN1

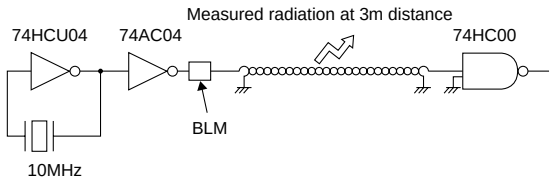


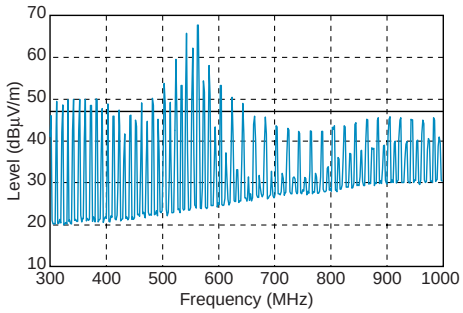
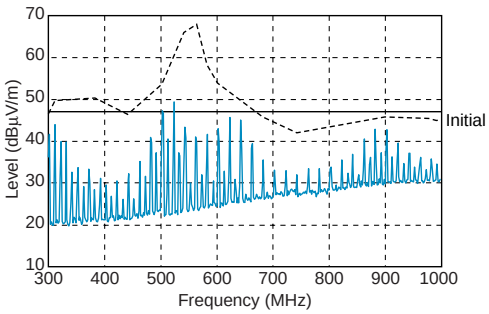
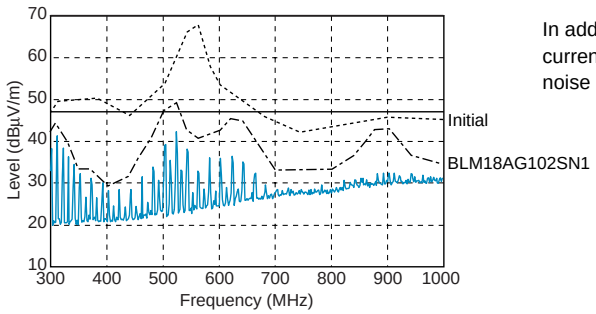
BLM18HK102SN1



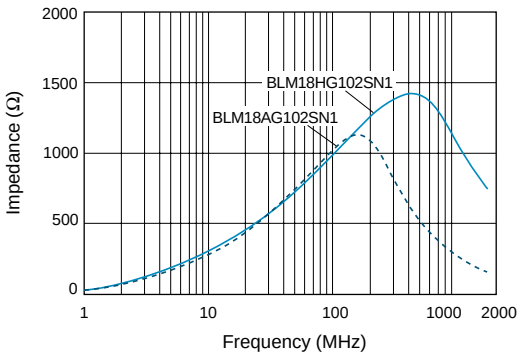
Noise Suppression of BLM18H in UHF Range

Testing Circuit



Type of Filter	EMI Suppression Effect / Description
Initial (No filter)	
Conventional Type **BLM18AG102SN1** (1000Ω at 100MHz)	 Current BLM18AG are effective in suppressing noise in the range between 300MHz and 700MHz.
for GHz Noise Suppression **BLM18HG102SN1** (1000Ω at 100MHz)	 In addition to the effectiveness of current BLM, BLM18HG suppresses noise in the range beyond 700MHz.

Comparison between BLM18HG102SN1 and BLM18AG102SN1 (Current Item)



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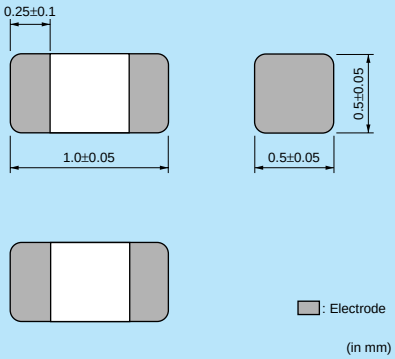
BLM15G Series (0402 Size)

Hi-GHz Reflow OK

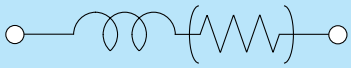
Available up to high-GHz band noise.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

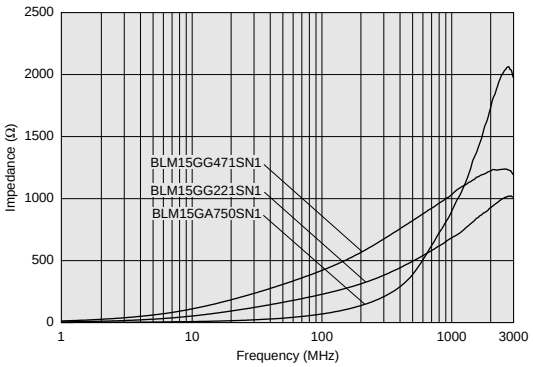
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM15GG221SN1☐	220ohm±25%	600ohm±40%	300mA	0.7ohm max.	-55°C to +125°C	Kit
BLM15GG471SN1☐	470ohm±25%	1200ohm±40%	200mA	1.3ohm max.	-55°C to +125°C	Kit
BLM15GA750SN1☐	75ohm±25%	1000ohm±40%	200mA	1.3ohm max.	-55°C to +125°C	Kit

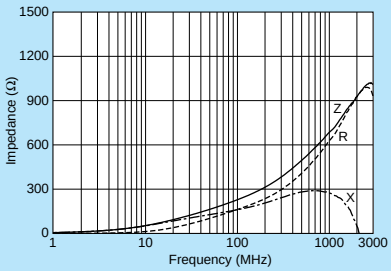
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)

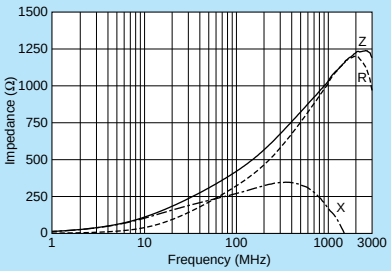


■ Impedance-Frequency Characteristics

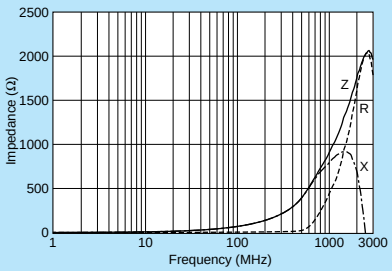
BLM15GG221SN1



BLM15GG471SN1



BLM15GA750SN1



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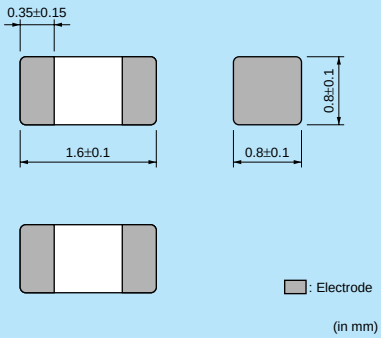
BLM18G Series (0603 Size)

Hi-GHz Reflow OK

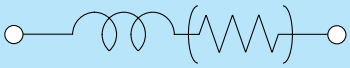
Available up to high-GHz band noise.



■ Dimensions



■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

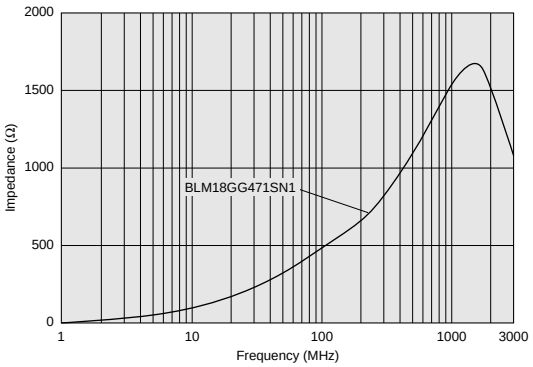
Refer to pages from p.91 to p.94 for mounting information.

■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Impedance (at 1GHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range	
BLM18GG471SN1☐	470ohm±25%	1800ohm±30%	200mA	1.0ohm ±0.3ohm	-55°C to +125°C	Kit

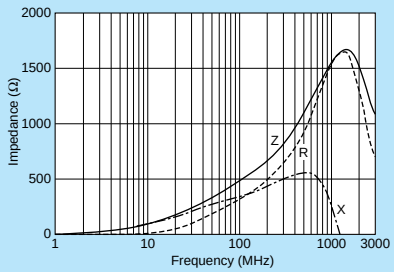
Number of Circuits: 1

■ Impedance-Frequency Characteristics (Main Items)



■ Impedance-Frequency Characteristics

BLM18GG471SN1



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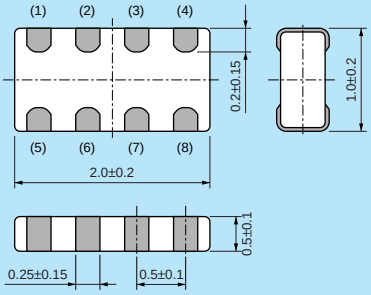
BLA2AA/BLA2AB Series (0804 Size)

Reflow OK

4-lines array, 0804 size.



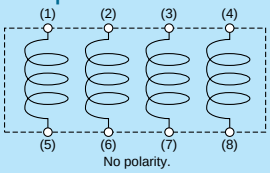
Dimensions



: Electrode

(in mm)

Equivalent Circuit



No polarity.

Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	10000
J	330mm Reel Paper Tape	50000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

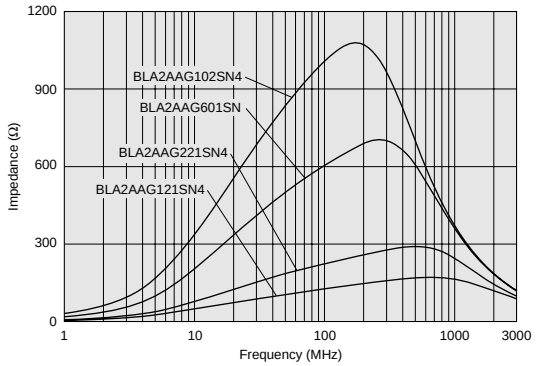
Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range
BLA2AAG121SN4☐	120ohm±25%	100mA	0.50ohm max.	-55°C to +125°C
BLA2AAG221SN4☐	220ohm±25%	50mA	0.70ohm max.	-55°C to +125°C
BLA2AAG601SN4☐	600ohm±25%	50mA	1.10ohm max.	-55°C to +125°C
BLA2AAG102SN4☐	1000ohm±25%	50mA	1.30ohm max.	-55°C to +125°C
BLA2ABD750SN4☐	75ohm±25%	200mA	0.20ohm max.	-55°C to +125°C
BLA2ABD121SN4☐	120ohm±25%	200mA	0.35ohm max.	-55°C to +125°C
BLA2ABD221SN4☐	220ohm±25%	100mA	0.40ohm max.	-55°C to +125°C
BLA2ABD471SN4☐	470ohm±25%	100mA	0.65ohm max.	-55°C to +125°C
BLA2ABD601SN4☐	600ohm±25%	100mA	0.80ohm max.	-55°C to +125°C
BLA2ABD102SN4☐	1000ohm±25%	50mA	1.00ohm max.	-55°C to +125°C
BLA2ABB100SN4☐	10ohm±25%	200mA	0.1ohm max.	-55°C to +125°C
BLA2ABB220SN4☐	22ohm±25%	200mA	0.2ohm max.	-55°C to +125°C
BLA2ABB470SN4☐	47ohm±25%	200mA	0.35ohm max.	-55°C to +125°C
BLA2ABB121SN4☐	120ohm±25%	50mA	0.60ohm max.	-55°C to +125°C
BLA2ABB221SN4☐	220ohm±25%	50mA	0.90ohm max.	-55°C to +125°C

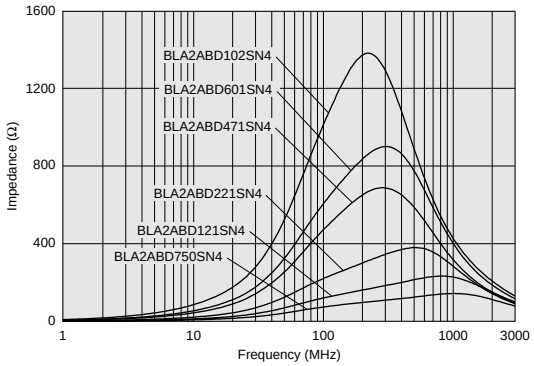
Number of Circuits: 4

Impedance-Frequency Characteristics (Main Items)

BLA2AAG Series



BLA2ABD Series

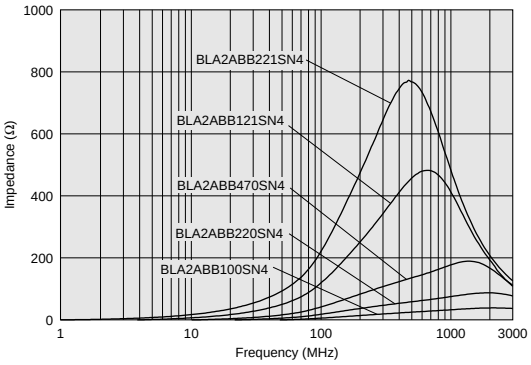


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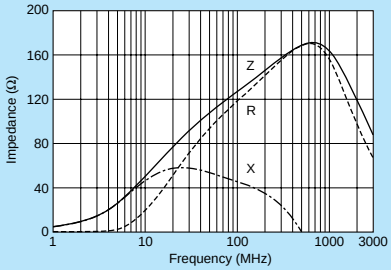
■ Impedance-Frequency Characteristics (Main Items)

BLA2ABB Series

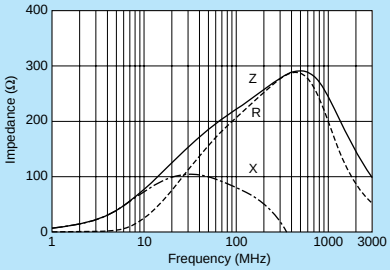


■ Impedance-Frequency Characteristics

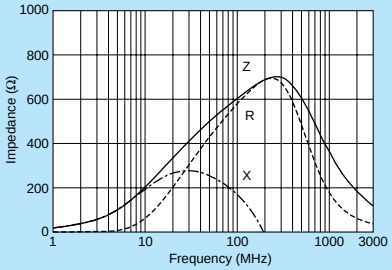
BLA2AAG121SN4



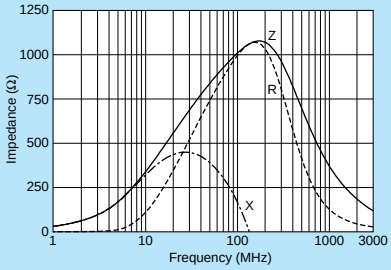
BLA2AAG221SN4



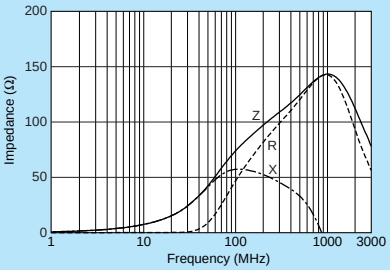
BLA2AAG601SN4



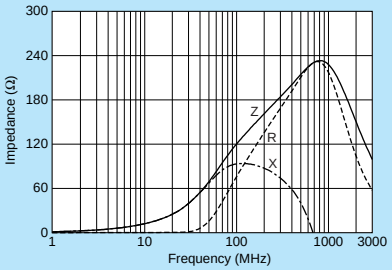
BLA2AAG102SN4



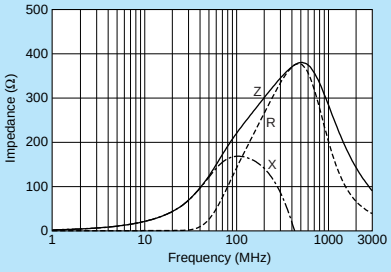
BLA2ABD750SN4



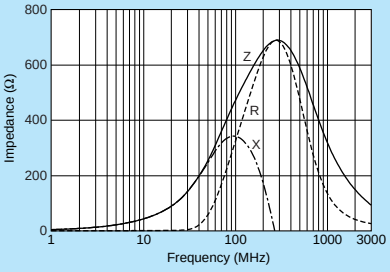
BLA2ABD121SN4



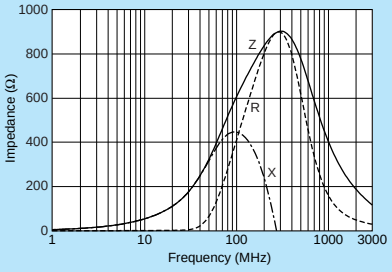
BLA2ABD221SN4



BLA2ABD471SN4



BLA2ABD601SN4

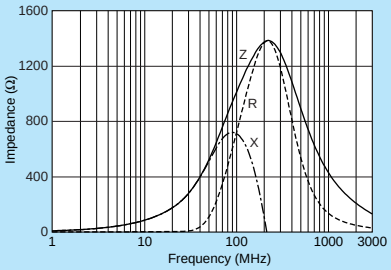


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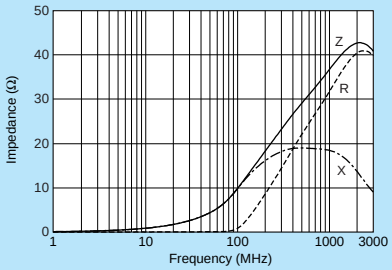
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■ Impedance-Frequency Characteristics

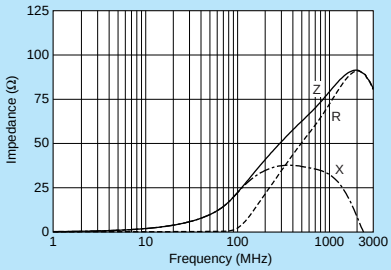
BLA2ABD102SN4



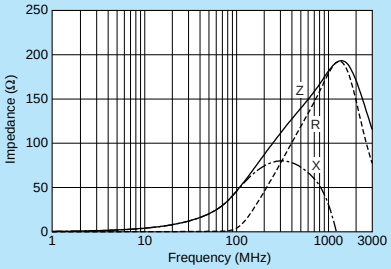
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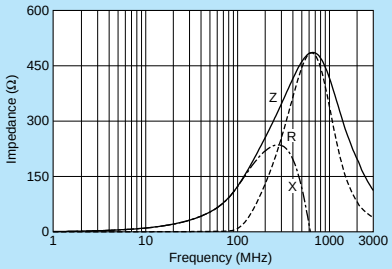
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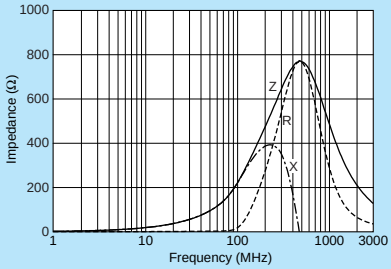
BLA2ABB470SN4



BLA2ABB121SN4



BLA2ABB221SN4



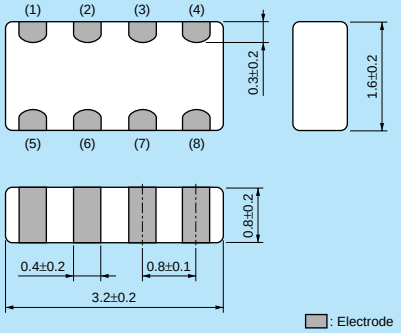
BLA31A/BLA31B Series (1206 Size)

Flow OK Reflow OK

4-lines array, 1206 size.

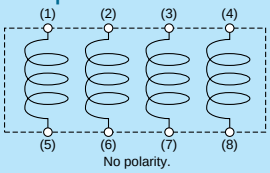


■ Dimensions



(in mm)

■ Equivalent Circuit



No polarity.

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Reel Paper Tape	4000
J	330mm Reel Paper Tape	10000
B	Bulk(Bag)	1000

Refer to pages from p.91 to p.94 for mounting information.

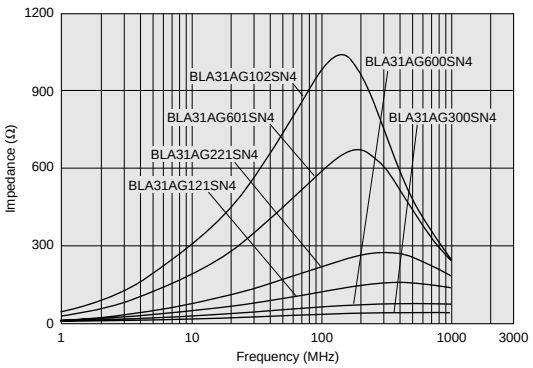
■ Rated Value (☐: packaging code)

Part Number	Impedance (at 100MHz/20°C)	Rated Current	DC Resistance	Operating Temperature Range
BLA31AG300SN4☐	30ohm±25%	200mA	0.10ohm max.	-55°C to +125°C
BLA31AG600SN4☐	60ohm±25%	200mA	0.15ohm max.	-55°C to +125°C
BLA31AG121SN4☐	120ohm±25%	150mA	0.20ohm max.	-55°C to +125°C
BLA31AG221SN4☐	220ohm±25%	150mA	0.25ohm max.	-55°C to +125°C
BLA31AG601SN4☐	600ohm±25%	100mA	0.35ohm max.	-55°C to +125°C
BLA31AG102SN4☐	1000ohm±25%	50mA	0.45ohm max.	-55°C to +125°C
BLA31BD121SN4☐	120ohm±25%	150mA	0.30ohm max.	-55°C to +125°C
BLA31BD221SN4☐	220ohm±25%	150mA	0.35ohm max.	-55°C to +125°C
BLA31BD471SN4☐	470ohm±25%	100mA	0.40ohm max.	-55°C to +125°C
BLA31BD601SN4☐	600ohm±25%	100mA	0.45ohm max.	-55°C to +125°C
BLA31BD102SN4☐	1000ohm±25%	50mA	0.55ohm max.	-55°C to +125°C

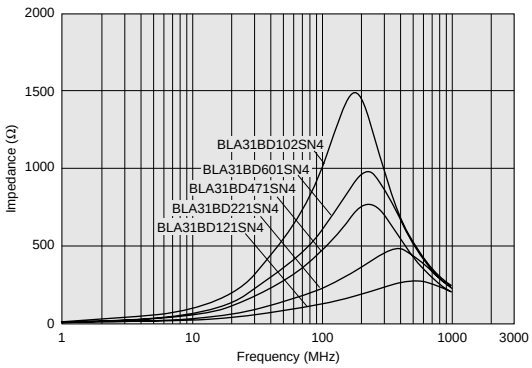
Number of Circuits: 4

■ Impedance-Frequency Characteristics (Main Items)

BLA31AG Series



BLA31BD Series

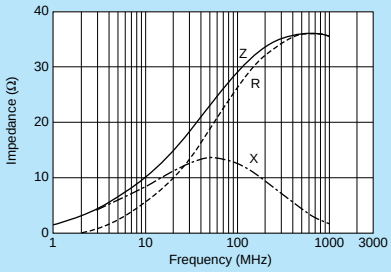


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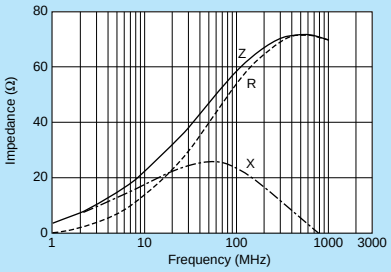
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■ Impedance-Frequency Characteristics

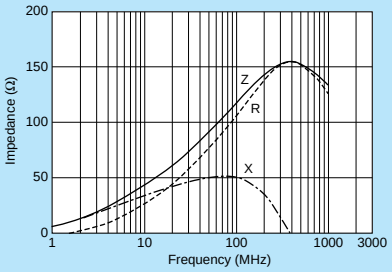
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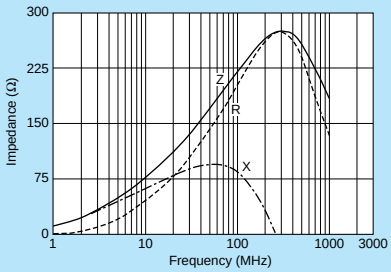
BLA31AG600SN4



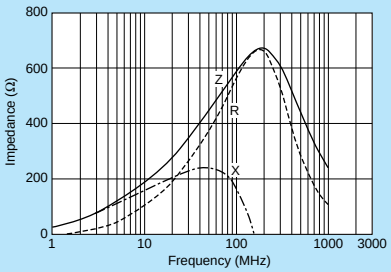
BLA31AG121SN4



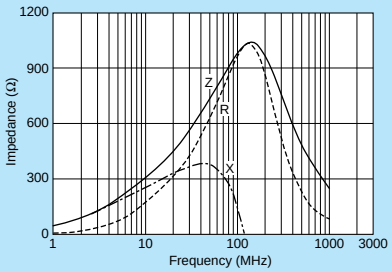
BLA31AG221SN4



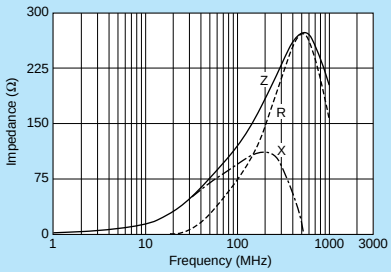
BLA31AG601SN4



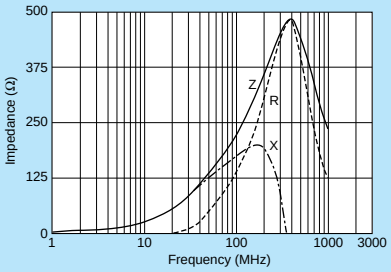
BLA31AG102SN4



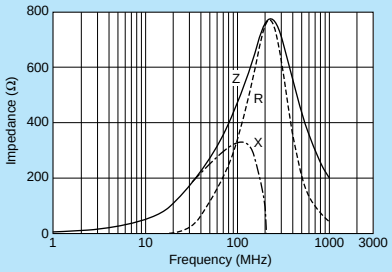
BLA31BD121SN4



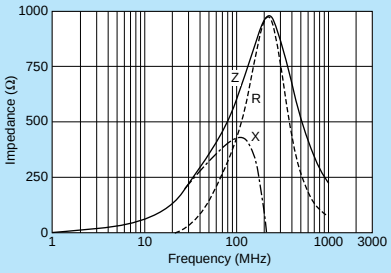
BLA31BD221SN4



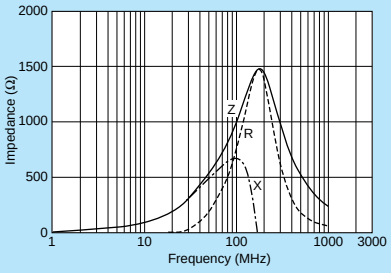
BLA31BD471SN4



BLA31BD601SN4



BLA31BD102SN4



⚠Caution

● Rating

1. About the Rated Current
   Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.
2. About the Excessive Surge Current
   Excessive surge current (pulse current or rush current) than specified rated current applied to the product may cause a critical failure, such as an open circuit, burnout caused by excessive temperature rise. Please contact us in advance in case of applying the surge current.

● Soldering and Mounting

• Self-heating
Please provide special attention when mounting chip ferrite beads BLM_AX/P/K/S series in close proximity to other products that radiate heat.
The heat generated by other products may deteriorate the insulation resistance and cause excessive heat in this component.

Notice

● Storage and Operating Conditions

<Operating Environment>
Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.
Do not use products in the environment close to the organic solvent.
<Storage and Handling Requirements>
1. Storage Period
   BLM15E/15H/15G series should be used within 12 months, the other series should be used within 6 months.
   Solderability should be checked if this period is exceeded.
2. Storage Conditions
   (1) Storage temperature: -10 to +40˚C
   Relative humidity: 15 to 85%
   Avoid sudden changes in temperature and humidity.
   (2) Do not store products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.

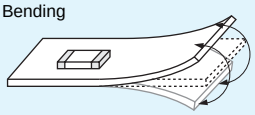
● Notice (Soldering and Mounting)

1. Cleaning
   Failure and degradation of a product are caused by the cleaning method. When you clean in conditions that are not in mounting information, please contact Murata engineering.
2. Soldering
   Reliability decreases with improper soldering methods. Please solder by the standard soldering conditions shown in mounting information.
3. Other
   Noise suppression levels resulting from Murata's EMI suppression filters EMIFIL® may vary, depending on the circuits and ICs used, type of noise, mounting pattern, mounting location, and other operating conditions. Be sure to check and confirm in advance the noise suppression effect of each filter, in actual circuits, etc. before applying the filter in a commercial-purpose equipment design.

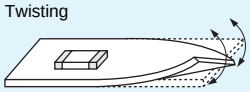
● Handling

1. Resin Coating
   Using resin for coating/molding products may affect the products performance.
   So please pay careful attention in selecting resin.
   Prior to use, please make the reliability evaluation with the product mounted in your application set.
2. Handling of a Substrate
   After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting to the substrate when cropping the substrate, inserting and removing a connector from the substrate or tightening screw to the substrate.
   Excessive mechanical stress may cause cracking in the Product.

Bending



Twisting

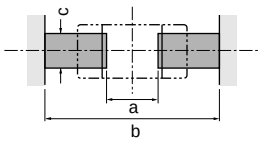


1. Standard Land Pattern Dimensions

Land Pattern + Solder Resist
Land Pattern Solder Resist
(in mm)

BLM02
BLM03
BLM15
(Except **BLM 15_AN1** series)
BLM18
BLM21
BLM31
BLM41

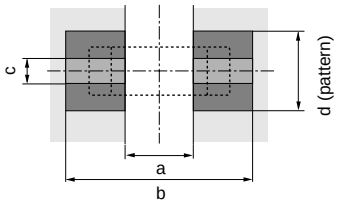
●Reflow and Flow
BLM Series



Type	Soldering	a	b	c
BLM02	Reflow	0.16-0.2	0.4-0.56	0.2-0.23
BLM03	Reflow	0.2-0.3	0.6-0.9	0.3
BLM15	Reflow	0.4	1.2-1.4	0.5
BLM18	Flow (except 18G)	0.7	2.2-2.6	0.7
	Reflow		1.8-2.0	
BLM21	Flow/ Reflow	1.2	3.0-4.0	1.0

• Except BLM03PG/15AX·PD·PG/18PG·KG·SG/21PG. And BLM02/03/15/18G is specially adapted for reflow soldering.

BLM□□AX/P/K/S



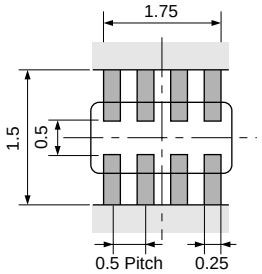
Type	Rated Current (A)	Soldering	a	b	c	Land Pad Thickness and Dimension d 18µm	35µm	70µm
BLM03AX **BLM03PG**	1max.	Reflow	0.2-0.3	0.6-0.9	0.3	0.3	0.3	0.3
BLM15AX	1.5max.	Reflow	0.4	1.2-1.4	0.5	0.5	0.5	0.5
BLM15P□	2.2max.					1.2	0.7	0.5
BLM18PG	0.5-1.5	Flow/ Reflow	0.7	Flow 2.2-2.6 Reflow 1.8-2.0	0.7	0.7	0.7	0.7
	1.7-2.5					1.2	0.7	0.7
BLM18KG	3-4					2.4	1.2	0.7
BLM18SG	6					6.4	3.3	1.65
BLM21PG	1.5		1.2	3.0-4.0	1.0	1.0	1.0	1.0
	2					1.2	1.0	1.0
	3					2.4	1.2	1.0
	6					6.4	3.3	1.65
BLM31PG	1.5/2		2.0	4.2-5.2	1.2	1.2	1.2	1.2
	3					2.4	1.2	1.2
	6					6.4	3.3	1.65
BLM41PG	1.5/2		3.0	5.5-6.5		1.2	1.2	1.2
	3					2.4	1.2	1.2
	6					6.4	3.3	1.65

• Do not apply narrower pattern than listed above to BLM□□AX/P/K/S.
Narrow pattern can cause excessive heat or open circuit.

BLA2A
BLA31

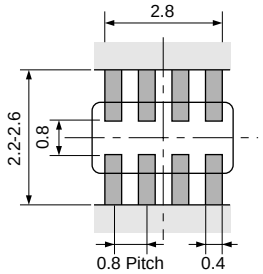
●Reflow Soldering

BLA2A



●Reflow and Flow

BLA31

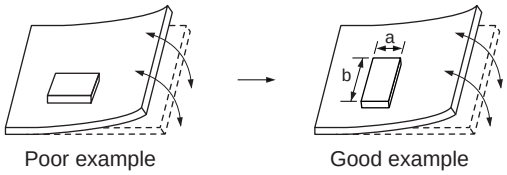


• If there are high amounts of self-heating on pattern, the contact points of PCB and part may become damaged.

● PCB Warping

PCB should be designed so that products are not subjected to the mechanical stress caused by warping the board.

Products should be located in the sideways direction (Length: a<b) to the mechanical stress.

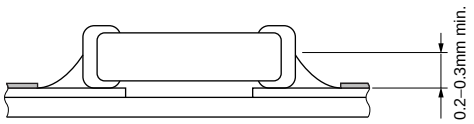
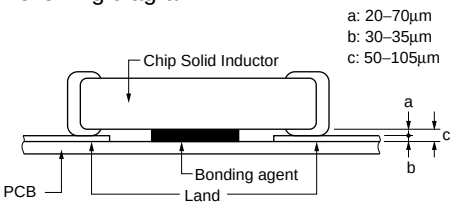
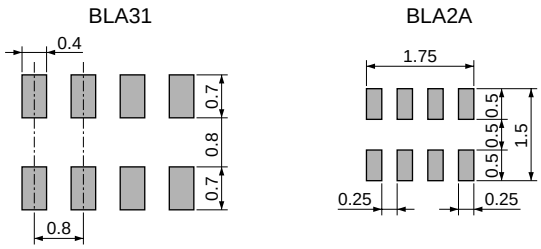
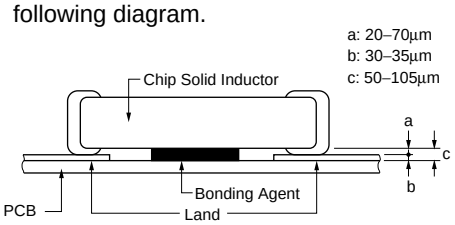


2. Solder Paste Printing and Adhesive Application

When reflow soldering the chip ferrite beads, the printing must be conducted in accordance with the following cream solder printing conditions.
If too much solder is applied, the chip will be prone to damage by mechanical and thermal stress from the PCB and may crack.
Standard land dimensions should be used for resist and copper foil patterns.

When flow soldering the chip ferrite beads, apply the adhesive in accordance with the following conditions.
If too much adhesive is applied, then it may overflow into the land or termination areas and yield poor solderability. In contrast, if insufficient adhesive is applied, or if the adhesive is not sufficiently hardened, then the chip may become detached during flow soldering process.

(in mm)

Series	Solder Paste Printing	Adhesive Application
BLM (Except **BLM 15_AN1** series)	●Ensure that solder is applied smoothly to a minimum height of 0.2mm to 0.3mm at the end surface of the part. ●Guideline of solder paste thickness: 50-80µm: BLM02 100-150µm: BLM03 100-200µm: BLM15/18/21/31/41 	■BLM18/21/31/41 Series (Except BLM18G Series) Coating amount is illustrated in the following diagram. 
BLA	●Guideline of solder paste thickness: 100-150µm: BLA2A 150-200µm: BLA31 	■BLA31 Series Coating amount is illustrated in the following diagram. 

3. Standard Soldering Conditions

(1) Soldering Methods

Use flow and reflow soldering methods only.
Use standard soldering conditions when soldering chip ferrite beads.
In cases where several different parts are soldered, each having different soldering conditions, use those conditions requiring the least heat and minimum time.

Solder: Use Sn-3.0Ag-0.5Cu solder. Use of Sn-Zn based solder will deteriorate performance of products. If using BLA series with Sn-Zn based solder, please contact Murata in advance.

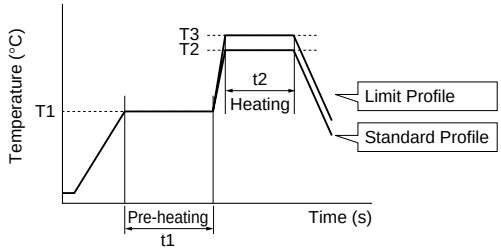
Flux:

- Use Rosin-based flux.
  In case of using RA type solder, products should be cleaned completely with no residual flux.
- Do not use strong acidic flux (with chlorine content exceeding 0.20wt%)
- Do not use water-soluble flux.

For additional mounting methods, please contact Murata.

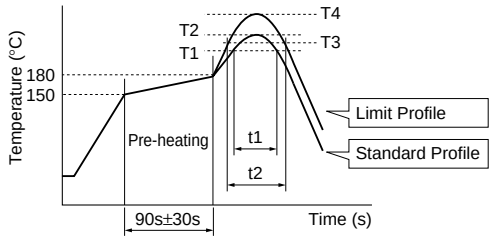
(2) Soldering Profile

●Flow Soldering profile
(Sn-3.0Ag-0.5Cu Solder)



Series	Pre-heating		Standard Profile			Limit Profile		
			Heating		Cycle of Flow	Heating		Cycle of Flow
	Temp. (T1)	Time. (t1)	Temp. (T2)	Time. (t2)		Temp. (T3)	Time. (t2)	
BLM (Except **BLM02/03/15/18G**) **BLA31**	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	2 times max.

●Reflow Soldering Profile
(Sn-3.0Ag-0.5Cu Solder)



Series	Standard Profile				Limit Profile			
	Heating		Peak Temperature (T2)	Cycle of Reflow	Heating		Peak Temperature (T4)	Cycle of Reflow
	Temp. (T1)	Time. (t1)			Temp. (T3)	Time. (t2)		
BLM **BLA**	220°C min.	30 to 60s	245±3°C	2 times max.	230°C min.	60s max.	260°C/10s	2 times max.

(3) Reworking with Solder Iron

The following conditions must be strictly followed when using a soldering iron.(Except BLM02 Series)
Pre-heating: 150°C 60s min.
Soldering iron power output / Tip diameter:
80W max. / ø3mm max.
Temperature of soldering iron tip / Soldering time / Times:
350°C max. / 3-4s / 2 times
Do not allow the tip of the soldering iron to directly contact the chip.
For additional methods of reworking with a soldering iron, please contact Murata engineering.

4. Cleaning

Following conditions should be observed when cleaning chip ferrite beads.

(1) Cleaning Temperature: 60°C max. (40°C max. for alcohol type cleaner)

(2) Ultrasonic
Output: 20W/liter max.
Duration: 5 minutes max.
Frequency: 28 to 40kHz

(3) Cleaning Agent
The following list of cleaning agents have been tested on the individual components. Evaluation of final assembly should be completed prior to production.

(a) Alcohol cleaning agent
Isopropyl alcohol (IPA)
(b) Aqueous cleaning agent
Pine Alpha ST-100S

(4) Ensure that flux residue is completely removed.
Component should be thoroughly dried after aqueous agent has been removed with deionized water.

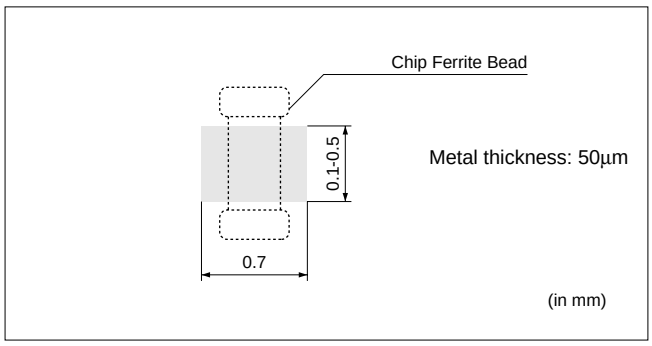
(5) BLM_G type is processed with resin. On rinsing the product, using water for ultrasonic cleaning may affect the resin quality used for the product by water element. In case of set cleaning conditions, please make sure the reliability according to the cleaning conditions.

5. Mounting of BLM15_AN1 Series

BLM15_AN1 is series for wire bonding mounting.

(1) Die Bonding Mounting

(a) Dimension of Standard Metal Mask



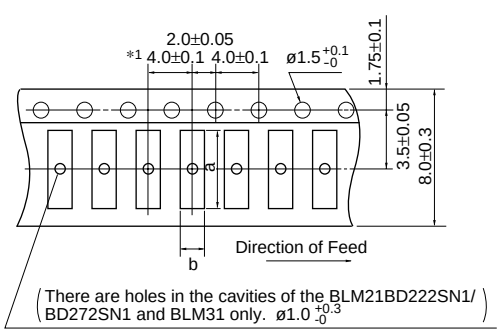
(b) Die Bonding Agent

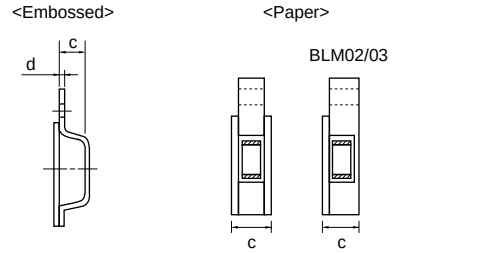
● Use adhesive for die bonding for which the curing temperature is 200°C or less.

(c) Notice

● Use a flat surface of substrate for bonding mounting.
Slant mounting of product may affect the wire bonding.
● Adhesive for die bonding may affect the mounting reliability in wire bonding.
Make sure of the mounting reliability with the adhesive to be used in advance.

■ Minimum Quantity and Dimensions of 8mm Width Paper / Embossed Tape





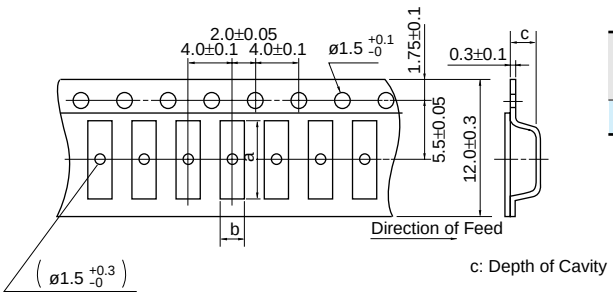
*1 BLM02/03/15/18S/18T: 2.0±0.05
BLA2A: 2.0±0.1

Dimension of the cavity of embossed tape is measured at the bottom side.

Part Number	Cavity Size (mm)				Minimum Qty. (pcs.)				
					ø180mm Reel		ø330mm Reel		Bulk
	a	b	c	d	Paper Tape	Embossed Tape	Paper Tape	Embossed Tape	
BLM02	0.45	0.25	0.40 max.	-	20000	-	-	-	1000
BLM03	0.70	0.40	0.55 max.	-	15000	-	50000	-	1000
BLM15	1.15	0.65	0.8 max.	-	10000	-	50000	-	1000
BLM18	1.85	1.05	1.1 max.	-	4000	-	10000	-	1000
BLM18EG/KG_TN	1.85	1.05	0.85 max.	-	4000	-	10000	-	1000
BLM18EG/KG_SN			1.1 max.						
BLM18S	1.85	1.05	0.90 max.	-	10000	-	30000	-	1000
BLM18T	1.85	1.05	0.90 max.	-	10000	-	-	-	1000
BLM21	2.25	1.45	1.1 max.	-	4000	-	10000	-	1000
BLM31	3.5	1.9	1.3	0.2	-	3000	-	10000	1000
BLM21BD222SN1/272SN1	2.25	1.45	1.3	0.2	-	3000	-	10000	1000
BLA2A	2.2	1.2	0.8 max.	-	10000	-	50000	-	1000
BLA31	3.4	1.8	1.1 max.	-	4000	-	10000	-	1000

(in mm)

■ Minimum Quantity and Dimensions of 12mm Width Embossed Tape



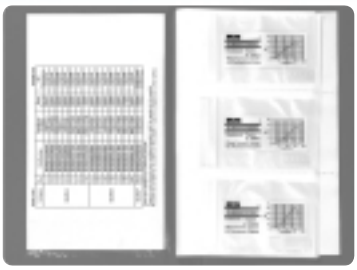
Dimension of the cavity is measured at the bottom side.

Part Number	Cavity Size			Minimum Qty. (pcs.)		
	a	b	c	ø180mm Reel	ø330mm Reel	Bulk
BLM41	4.8	1.9	1.75	2500	8000	1000

(in mm)

"Minimum Quantity" means the number of units of each delivery or order. The quantity should be an integral multiple of the "Minimum Quantity".





●EKEMBL03G (Chip Ferrite Beads 01005 Size / 0201 Size)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	**BLM02AG100SN1**	10	10Ω (Typ.)	500	0.1
2	**BLM02AG700SN1**	10	70Ω±25%	250	0.5
3	**BLM02AG121SN1**	10	120Ω±25%	200	0.8
4	**BLM03AG100SN1**	10	10Ω (Typ.)	500	0.1
5	**BLM03AG700SN1**	10	70Ω (Typ.)	200	0.4
6	**BLM03AG800SN1**	10	80Ω±25%	200	0.4
7	**BLM03AG121SN1**	10	120Ω±25%	200	0.5
8	**BLM03AG241SN1**	10	240Ω±25%	200	0.8
9	**BLM03AG601SN1**	10	600Ω±25%	100	1.5
10	**BLM03AG102SN1**	10	1000Ω±25%	100	2.5
11	**BLM03AX100SN1**	10	10Ω (Typ.)	1000	0.05
12	**BLM03AX800SN1**	10	80Ω±25%	500	0.18
13	**BLM03AX121SN1**	10	120Ω±25%	450	0.23
14	**BLM03AX241SN1**	10	240Ω±25%	350	0.38
15	**BLM03AX601SN1**	10	600Ω±25%	250	0.85
16	**BLM03AX102SN1**	10	1000Ω±25%	200	1.25
17	**BLM03BB100SN1**	10	10Ω±25%	300	0.4
18	**BLM03BB220SN1**	10	22Ω±25%	200	0.5
19	**BLM03BB470SN1**	10	47Ω±25%	200	0.7
20	**BLM03BB750SN1**	10	75Ω±25%	200	1.0
21	**BLM03BB121SN1**	10	120Ω±25%	100	1.5
22	**BLM03BD750SN1**	10	75Ω±25%	300	0.4
23	**BLM03BD121SN1**	10	120Ω±25%	250	0.5
24	**BLM03BD241SN1**	10	240Ω±25%	200	0.8
25	**BLM03BD471SN1**	10	470Ω±25%	215	1.5
26	**BLM03BD601SN1**	10	600Ω±25%	200	1.7
27	**BLM03BC330SN1**	10	33Ω±25%	150	0.85
28	**BLM03BC560SN1**	10	56Ω±25%	100	1.05
29	**BLM03BC800SN1**	10	80Ω±25%	100	1.40
30	**BLM03HG601SN1**	10	600Ω±25%	150	1.6
31	**BLM03HG102SN1**	10	1000Ω±25%	125	2.6
32	**BLM03HD331SN1**	10	330Ω±25%	200	1.0
33	**BLM03HD471SN1**	10	470Ω±25%	175	1.3
34	**BLM03HD601SN1**	10	600Ω±25%	150	1.7
35	**BLM03HD102SN1**	10	1000Ω±25%	120	2.9
36	**BLM03PG220SN1**	10	22Ω±25%	900	0.065
37	**BLM03PG330SN1**	10	33Ω±25%	750	0.090

●EKEMBL15N (Chip Ferrite Beads 0402 Size)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	**BLM15AG100SN1**	10	10Ω (Typ.)	1000	0.05
2	**BLM15AG700SN1**	10	70Ω (Typ.)	500	0.15
3	**BLM15AG121SN1**	10	120Ω±25%	500	0.25
4	**BLM15AG221SN1**	10	220Ω±25%	300	0.35
5	**BLM15AG601SN1**	10	600Ω±25%	300	0.60
6	**BLM15AG102SN1**	10	1000Ω±25%	200	1.00
7	**BLM15AX100SN1**	10	10Ω (Typ.)	1740	0.015
8	**BLM15AX300SN1**	10	30Ω±25%	1100	0.06
9	**BLM15AX700SN1**	10	70Ω±25%	780	0.10
10	**BLM15AX121SN1**	10	120Ω±25%	680	0.13
11	**BLM15AX221SN1**	10	220Ω±25%	580	0.18
12	**BLM15AX601SN1**	10	600Ω±25%	420	0.34
13	**BLM15AX102SN1**	10	1000Ω±25%	350	0.49
14	**BLM15BA050SN1**	10	5Ω±25%	300	0.10

Continued on the following page.

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Continued from the preceding page.

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
15	**BLM15BA100SN1**	10	10Ω±25%	300	0.20
16	**BLM15BA220SN1**	10	22Ω±25%	300	0.30
17	**BLM15BA330SN1**	10	33Ω±25%	300	0.40
18	**BLM15BA470SN1**	10	47Ω±25%	200	0.60
19	**BLM15BA750SN1**	10	75Ω±25%	200	0.80
20	**BLM15BB050SN1**	10	5Ω±25%	500	0.08
21	**BLM15BB100SN1**	10	10Ω±25%	300	0.10
22	**BLM15BB220SN1**	10	22Ω±25%	300	0.20
23	**BLM15BB470SN1**	10	47Ω±25%	300	0.35
24	**BLM15BB750SN1**	10	75Ω±25%	300	0.40
25	**BLM15BB121SN1**	10	120Ω±25%	300	0.55
26	**BLM15BB221SN1**	10	220Ω±25%	200	0.80
27	**BLM15BC121SN1**	10	120Ω±25%	350	0.45
28	**BLM15BC241SN1**	10	240Ω±25%	250	0.70
29	**BLM15BD750SN1**	10	75Ω±25%	300	0.20
30	**BLM15BD121SN1**	10	120Ω±25%	300	0.30
31	**BLM15BD221SN1**	10	220Ω±25%	300	0.40
32	**BLM15BD471SN1**	10	470Ω±25%	200	0.60
33	**BLM15BD601SN1**	10	600Ω±25%	200	0.65
34	**BLM15BD102SN1**	10	1000Ω±25%	200	0.90
35	**BLM15BD182SN1**	10	1800Ω±25%	100	1.40
36	**BLM15HD601SN1**	10	600Ω±25%	300	0.85
37	**BLM15HD102SN1**	10	1000Ω±25%	250	1.25
38	**BLM15HD182SN1**	10	1800Ω±25%	200	2.20
39	**BLM15HG601SN1**	10	600Ω±25%	300	0.70
40	**BLM15HG102SN1**	10	1000Ω±25%	250	1.10
41	**BLM15HB121SN1**	10	120Ω±25%	300	0.70
42	**BLM15HB221SN1**	10	220Ω±25%	250	1.00
43	**BLM15EG121SN1**	10	120Ω±25%	1500	0.095
44	**BLM15EG221SN1**	10	220Ω±25%	700	0.28
45	**BLM15GG221SN1**	10	220Ω±25%	300	0.70
46	**BLM15GG471SN1**	10	470Ω±25%	200	1.30
47	**BLM15GA750SN1**	10	75Ω±25%	200	1.30
48	**BLM15PG100SN1**	10	10Ω (Typ.)	1000	0.05
49	**BLM15PD300SN1**	10	30Ω±25%	2200	0.035
50	**BLM15PD600SN1**	10	60Ω±25%	1700	0.06
51	**BLM15PD800SN1**	10	80Ω±25%	1500	0.07
52	**BLM15PD121SN1**	10	120Ω±25%	1300	0.09
53	**BLM15PX121SN1**	10	120Ω±25%	1800	0.06

●EKEMBL18H (Chip Ferrite Beads 0603 Size)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	**BLM18AG121SN1**	10	120Ω±25%	500	0.18
2	**BLM18AG151SN1**	10	150Ω±25%	500	0.25
3	**BLM18AG221SN1**	10	220Ω±25%	500	0.25
4	**BLM18AG331SN1**	10	330Ω±25%	500	0.30
5	**BLM18AG471SN1**	10	470Ω±25%	500	0.35
6	**BLM18AG601SN1**	10	600Ω±25%	500	0.38
7	**BLM18AG102SN1**	10	1000Ω±25%	400	0.50
8	**BLM18BA050SN1**	10	5Ω±25%	500	0.20
9	**BLM18BA100SN1**	10	10Ω±25%	500	0.25
10	**BLM18BA470SN1**	10	47Ω±25%	300	0.55
11	**BLM18BA750SN1**	10	75Ω±25%	300	0.70
12	**BLM18BA121SN1**	10	120Ω±25%	200	0.90
13	**BLM18BB050SN1**	10	5Ω±25%	700	0.05
14	**BLM18BB100SN1**	10	10Ω±25%	700	0.10
15	**BLM18BB220SN1**	10	22Ω±25%	600	0.20
16	**BLM18BB470SN1**	10	47Ω±25%	550	0.25
17	**BLM18BB600SN1**	10	60Ω±25%	550	0.25
18	**BLM18BB750SN1**	10	75Ω±25%	500	0.30
19	**BLM18BB121SN1**	10	120Ω±25%	500	0.30
20	**BLM18BB151SN1**	10	150Ω±25%	450	0.37
21	**BLM18BB221SN1**	10	220Ω±25%	450	0.45
22	**BLM18BB331SN1**	10	330Ω±25%	400	0.58

Continued on the following page.

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Chip Ferrite Bead
Design Kits
Chip EMIFIL®
Chip Common Mode Choke Coil
Block Type EMIFIL®

Continued from the preceding page.

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
23	**BLM18BB471SN1**	10	470Ω±25%	300	0.85
24	**BLM18BD470SN1**	10	47Ω±25%	200	0.30
25	**BLM18BD121SN1**	10	120Ω±25%	200	0.40
26	**BLM18BD151SN1**	10	150Ω±25%	200	0.40
27	**BLM18BD221SN1**	10	220Ω±25%	200	0.45
28	**BLM18BD331SN1**	10	330Ω±25%	200	0.50
29	**BLM18BD421SN1**	10	420Ω±25%	200	0.55
30	**BLM18BD471SN1**	10	470Ω±25%	200	0.55
31	**BLM18BD601SN1**	10	600Ω±25%	200	0.65
32	**BLM18BD102SN1**	10	1000Ω±25%	100	0.85
33	**BLM18BD152SN1**	10	1500Ω±25%	50	1.20
34	**BLM18BD182SN1**	10	1800Ω±25%	50	1.50
35	**BLM18BD222SN1**	10	2200Ω±25%	50	1.50
36	**BLM18BD252SN1**	10	2500Ω±25%	50	1.50
37	**BLM18PG300SN1**	10	30Ω (Typ.)	1000	0.05
38	**BLM18PG330SN1**	10	33Ω±25%	3000	0.025
39	**BLM18PG600SN1**	10	60Ω (Typ.)	500	0.10
40	**BLM18PG121SN1**	10	120Ω±25%	2000	0.05
41	**BLM18PG181SN1**	10	180Ω±25%	1500	0.09
42	**BLM18PG221SN1**	10	220Ω±25%	1400	0.10
43	**BLM18PG331SN1**	10	330Ω±25%	1200	0.15
44	**BLM18PG471SN1**	10	470Ω±25%	1000	0.20
45	**BLM18KG260TN1**	10	26Ω±25%	6000	0.007
46	**BLM18KG300TN1**	10	30Ω±25%	5000	0.010
47	**BLM18KG700TN1**	10	70Ω±25%	3500	0.022
48	**BLM18KG101TN1**	10	100Ω±25%	3000	0.030
49	**BLM18KG121TN1**	10	120Ω±25%	3000	0.030
50	**BLM18KG221SN1**	10	220Ω±25%	2200	0.050
51	**BLM18KG331SN1**	10	330Ω±25%	1700	0.080
52	**BLM18KG471SN1**	10	470Ω±25%	1500	0.130
53	**BLM18KG601SN1**	10	600Ω±25%	1300	0.150
54	**BLM18SG260TN1**	10	26Ω±25%	6000	0.007
55	**BLM18SG700TN1**	10	70Ω±25%	4000	0.020
56	**BLM18SG121TN1**	10	120Ω±25%	3000	0.025
57	**BLM18SG221TN1**	10	220Ω±25%	2500	0.040
58	**BLM18SG331TN1**	10	330Ω±25%	1500	0.070

●EKEMBL8GA (Chip Ferrite Beads 0603 Size / for High Frequency Type)

No.	Part Number	Quantity (pcs.)	Impedance (at 100MHz, 20 degrees C)	Impedance (at 1GHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	**BLM18HG471SN1**	10	470Ω±25%	600Ω (Typ.)	200	0.85
2	**BLM18HG601SN1**	10	600Ω±25%	700Ω (Typ.)	200	1.00
3	**BLM18HG102SN1**	10	1000Ω±25%	1000Ω (Typ.)	100	1.60
4	**BLM18HB121SN1**	10	120Ω±25%	500Ω±40%	200	0.50
5	**BLM18HB221SN1**	10	220Ω±25%	1100Ω±40%	100	0.80
6	**BLM18HB331SN1**	10	330Ω±25%	1600Ω±40%	50	1.20
7	**BLM18HD471SN1**	10	470Ω±25%	1000Ω (Typ.)	100	1.20
8	**BLM18HD601SN1**	10	600Ω±25%	1200Ω (Typ.)	100	1.50
9	**BLM18HD102SN1**	10	1000Ω±25%	1700Ω (Typ.)	50	1.80
10	**BLM18HE601SN1**	10	600Ω±25%	600Ω (Typ.)	800	0.25
11	**BLM18HE102SN1**	10	1000Ω±25%	1000Ω (Typ.)	600	0.35
12	**BLM18HE152SN1**	10	1500Ω±25%	1500Ω (Typ.)	500	0.50
13	**BLM18HK331SN1**	10	330Ω±25%	400Ω (Typ.)	200	0.50
14	**BLM18HK471SN1**	10	470Ω±25%	600Ω (Typ.)	200	0.70
15	**BLM18HK601SN1**	10	600Ω±25%	700Ω (Typ.)	100	0.90
16	**BLM18HK102SN1**	10	1000Ω±25%	1200Ω (Typ.)	50	1.50
17	**BLM18EG101TN1**	10	100Ω±25%	140Ω (Typ.)	2000	0.045
18	**BLM18EG121SN1**	10	120Ω±25%	145Ω (Typ.)	2000	0.04
19	**BLM18EG221TN1**	10	220Ω±25%	300Ω (Typ.)	1000	0.15
20	**BLM18EG221SN1**	10	220Ω±25%	260Ω (Typ.)	2000	0.05
21	**BLM18EG331TN1**	10	330Ω±25%	450Ω (Typ.)	500	0.21
22	**BLM18EG391TN1**	10	390Ω±25%	520Ω (Typ.)	500	0.30
23	**BLM18EG471SN1**	10	470Ω±25%	550Ω (Typ.)	500	0.21
24	**BLM18EG601SN1**	10	600Ω±25%	700Ω (Typ.)	500	0.35
25	**BLM18GG471SN1**	10	470Ω±25%	1800Ω±30%	200	1.30

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●EKEMBL21E (Chip Ferrite Beads 0805 Size / for Large-current P Type)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degrees C)	Rated Current (mA)	DC Resistance (Ω) max.
1	**BLM21AG121SN1**	10	120Ω±25%	200	0.15
2	**BLM21AG151SN1**	10	150Ω±25%	200	0.15
3	**BLM21AG221SN1**	10	220Ω±25%	200	0.20
4	**BLM21AG331SN1**	10	330Ω±25%	200	0.25
5	**BLM21AG471SN1**	10	470Ω±25%	200	0.25
6	**BLM21AG601SN1**	10	600Ω±25%	200	0.30
7	**BLM21AG102SN1**	10	1000Ω±25%	200	0.45
8	**BLM21BB050SN1**	10	5Ω±25%	500	0.07
9	**BLM21BB600SN1**	10	60Ω±25%	200	0.20
10	**BLM21BB750SN1**	10	75Ω±25%	200	0.25
11	**BLM21BB121SN1**	10	120Ω±25%	200	0.25
12	**BLM21BB221SN1**	10	220Ω±25%	200	0.35
13	**BLM21BB331SN1**	10	330Ω±25%	200	0.40
14	**BLM21BB471SN1**	10	470Ω±25%	200	0.45
15	**BLM21BD121SN1**	10	120Ω±25%	200	0.25
16	**BLM21BD221SN1**	10	220Ω±25%	200	0.25
17	**BLM21BD421SN1**	10	420Ω±25%	200	0.30
18	**BLM21BD471SN1**	10	470Ω±25%	200	0.35
19	**BLM21BD601SN1**	10	600Ω±25%	200	0.35
20	**BLM21BD102SN1**	10	1000Ω±25%	200	0.40
21	**BLM21BD152SN1**	10	1500Ω±25%	200	0.45
22	**BLM21BD182SN1**	10	1800Ω±25%	200	0.50
23	**BLM21BD222SN1**	10	2250Ω (Typ.)	200	0.60
24	**BLM21BD222TN1**	10	2200Ω±25%	200	0.60
25	**BLM21BD272SN1**	10	2700Ω±25%	200	0.80
26	**BLM21PG220SN1**	10	22Ω±25%	6000	0.01
27	**BLM21PG300SN1**	10	30Ω (Typ.)	3000	0.015
28	**BLM21PG600SN1**	10	60Ω±25%	3000	0.025
29	**BLM21PG121SN1**	10	120Ω±25%	3000	0.03
30	**BLM21PG221SN1**	10	220Ω±25%	2000	0.050
31	**BLM21PG331SN1**	10	330Ω±25%	1500	0.09
32	**BLM31PG330SN1**	10	33Ω±25%	6000	0.01
33	**BLM31PG500SN1**	10	50Ω (Typ.)	3000	0.025
34	**BLM31PG121SN1**	10	120Ω±25%	3000	0.025
35	**BLM31PG391SN1**	10	390Ω (Typ.)	2000	0.05
36	**BLM31PG601SN1**	10	600Ω (Typ.)	1500	0.09
37	**BLM41PG600SN1**	10	60Ω (Typ.)	6000	0.01
38	**BLM41PG750SN1**	10	75Ω (Typ.)	3000	0.025
39	**BLM41PG181SN1**	10	180Ω (Typ.)	3000	0.025
40	**BLM41PG471SN1**	10	470Ω (Typ.)	2000	0.05
41	**BLM41PG102SN1**	10	1000Ω (Typ.)	1500	0.09