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

Chip Ferrite Beads Part Numbering

Chip Ferrite Bead	ds
(Part Number)	BL M 18 AG 102 S N 1 D 0 2 3 3 5 6 2 3 9
Product ID	
Product ID	
BL	Chip Ferrite Beads
2 Туре	
Code	Туре
Α	Array Type

0000	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Α	Array Type
м	Monolithic Type

3 Dimensions (L×W)

Code	Dimensions (L×W)	EIA	
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	

5Impedance

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

6 Performance

Expressed by a letter.

Ex.)	Code	Performance
	S/T	Sn Plating
	Α	Au Plating

Category

Code	Category
N	Standard Type
Н	For Automotive

8Number of Circuits

-	
Code	Number of Circuits
1	1 Circuit
4	4 Circuits

Characteristics/Applications Code *1 Characteristics/Applications

Code *1	Characteristics/Applications	Series			
AG	for General Use	BLM03/BLM15/BLM18/BLM21/BLM31/BLA2A/BLA31			
TG	Tor General Use	BLM18			
BA		BLM18			
BB	for High-speed Signal Lines	BLM15/BLM18/BLM21/BLA2A			
BD		BLM15/BLM18/BLM21/BLA2A/BLA31			
PG	for Power Supplies	BLM15/BLM18/BLM21/BLM31/BLM41			
RK	for Digital Interface	BLM18/BLM21			
HG	for GHz Band General Use				
EG	for GHz Band General Use (Low DC Resistance type)	BLM15/BLM18			
НВ	for Othe David High an end Circuit Line	BLM18			
HD	for GHz Band High-speed Signal Line	BLM15/BLM18			
нк	for GHz Band Digital Interface	BLM18			
GG	for High-GHz Band General Use	BLM18			

*1 Frequency characteristics vary with each code.

Packaging

Code	Packaging	Series		
к	Plastic Taping (ø330mm Reel)	BLM31/BLM41/BLM21 *1		
L	Plastic Taping (ø180mm Reel)			
В	Bulk	All series		
J	Paper Taping (ø330mm Reel)	BLM15/BLM18/BLM21*2 /BLA31		
D	Paper Taping (ø180mm Reel)	BLM03/BLM15/BLM18/BLM21*2 /BLA2A/BLA31		
С	Bulk Case	BLM15/BLM18		

*1 BLM21BD222SN1/BLM21BD272SN1 only.

*2 Except BLM21BD222SN1/BLM21BD272SN1





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



Chip Ferrite Bead BLM Series

Essential for Noise Suppression in High Speed Signal Lines and DC Power Lines

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

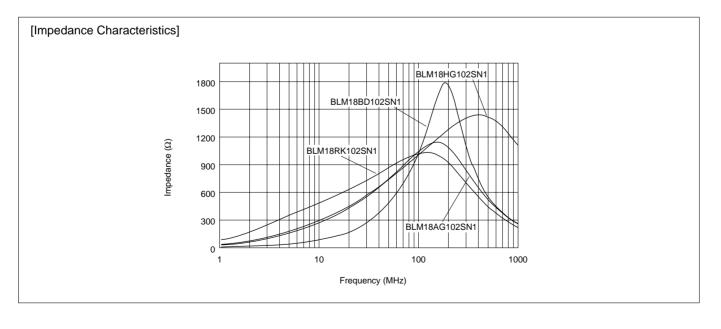
Features

The BLM series comprises the R series (for digital interface), the A series (for standard), the B series (for high speed signal), the P series (for large current), and the H/E/G series (for GHz range noise suppression).

- BLM R series For Digital Interface The BLM-R series can be used in Digital Interface. Resistance of BLM-R series especially grows in the lower frequency range. Therefore BLM-R series is less effective for digital signal waveform at low frequency range and can suppress the ringing.

Chip sizes of 0.6x0.3, 1.0x0.5, 1.6x0.8, 2.0x1.25, 3.2x1.6 and 4.5x1.6mm are cataloged. (The BLA series of array type chip ferrite beads is also cataloged.) The nickel barrier structure of the external electrodes provides excellent solder heat resistance.

- BLM B series For High Speed Signal The BLM-B series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency.
- BLM□P series For Large Current The BLM-P series can be used in high current circuits due to its low DC resistance. It can match power lines to a maximum of 6A DC (BLM41P).
- BLM H/E/G series For GHz Range Noise Suppression The BLM H/E/G series has a modified internal electrode structure that minimizes stray capacitance and increases the effective frequency range.





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∎Imped	lanc	e Ma	ар													
							2700									
						2500										
							2250									
						2200	2200									
					1800	1800	1800								1800	
						1500	1500									
1000	-	1000	1000	1000	1000	1000	1000	1000	1000					1000 (1.5A)	1000	1000
							750									
		600	600	600	600	600	600	600	600				600 (1.5A)		600	600
			470	470	470	470	470	470	470					470 (2A)		470
						420	420									
				400												
													390 (2A)			390
N			330	330		330	330					330 (1.5A)				330
ΗW	240															
100		220	220	220	220	220	220	220	220			220 (2A)			220	220
t) at							200									
Impedance (Ω) at 100MHz											180 (1.5A)			180 (3A)		
anci			150	150		150	150									
ped						140										
<u></u>	120	120	120	120	120	120	120	120	120		120 (2A)		120 (3A)		120	120
100	-															100
														80 (1A)		
					75	75	75							75 (3A)		
	70	70														
						60	60				60 (0.5A)	60 (3A)		60 (6A)		
													50 (3A)			
					47	47										
											33 (3A)		33 (6A)			
											30 (1A)	30 (3A)				
					22	22						22 (6A)				
10	- 10	10			10	10				10 (1A)						
					5	5	5									
mm	0603	1005	1608	2012	1005	1608	2012	1608	2012	1005	1608	2012	3216	4516	1005	1608
EIA Code	0201	0402	0603	0805	0402	0603	0805	0603	0805	0402	0603	0805	1206	1806	0402	0603
	F	or Sta	Indarc	ł	For H	ligh S	peed	For D	Digital		Fc	r Large Curre	ent		GHz Range Noise	GHz Range Noise
	E	BLM	□ _A/T		BI	Sígna _M ⊟⊑	B	Inter BLM			()		ent		Suppression Type BLM15H/E	Suppression Type BLM18H/E/G





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ΝЛ	Series	
1.01	201022	

1

e (EIA Code)		Туре	Part Number	impeda	ince (Ω)	Rated Current (mA	
		. 360		at 100MHz	at 1GHz		
			BLM03AG100SN1	10 (Typ.)	-	500	
0004		Chandrad	BLM03AG700SN1	70 (Typ.)	-	200	
0201	For	Standard –	BLM03AG121SN1	120±25%	-	200	
			BLM03AG241SN1	240±25%	-	100	
			BLM15AG100SN1	10 (Тур.)	-	1000	
			BLM15AG700SN1	70 (Typ.)	-		
			BLM15AG121SN1	120±25%	-	500	
			BLM15AG221SN1	220±25%	-		
	For	Standard	BLM15AG601SN1	600±25%	-	- 300	
			BLM15AG102SN1	1000±25%	-	200	
			BLM15AG601AN1	600±25%	140 (Typ.)	300	
		_	BLM15AG102AN1	1000±25%	300 (Typ.)	200	
			BLM15BB050SN1	5±25%	-	500	
			BLM15BB100SN1	10±25%	-	300	
		_	BLM15BB220SN1	22±25%		_	
			BLM15BB470SN1		-		
		_	BLM15BB750SN1	47±25%		300	
				75±25%	-	_	
			BLM15BB121SN1	120±25%	-		
0402	-	n Speed Signal	BLM15BB221SN1	220±25%	-	200	
	(Sharp impeda	ance characteristics)	BLM15BD750SN1	75±25%	-	_	
			BLM15BD121SN1	120±25%	-	300	
			BLM15BD221SN1	220±25%	-		
			BLM15BD471SN1	470±25%	-		
			BLM15BD601SN1	600±25%	-	200	
			BLM15BD102SN1	1000±25%	-		
			BLM15BD182SN1	1800±25%	-	100	
	For La	arge Current	BLM15PG100SN1	10 (Typ.)	-	1000	
		For Stondard	BLM15HG601SN1	600±25%	1000±40%	300	
		For Standard	BLM15HG102SN1	1000±25%	1400±40%	250	
			BLM15HD601SN1	600±25%	1400±40%	300	
	GHz Range	For High Speed	BLM15HD102SN1	1000±25%	2000±40%	250	
		Signal –	BLM15HD182SN1	1800±25%	2700±40%	200	
		For Standard	BLM15EG121SN1	120±25%	145 (Typ.)	1500*	
		(Low DC Resistance Type)	BLM15EG221SN1	220±25%	270 (Typ.)	700*	
			BLM18AG121SN1	120±25%	-		
			BLM18AG151SN1	150±25%	-		
			BLM18AG221SN1	220±25%	-	_	
	For	Standard	BLM18AG331SN1	330±25%	-	200	
			BLM18AG471SN1	470±25%	_	_	
			BLM18AG601SN1	600±25%	-	_	
			BLM18AG102SN1	1000±25%		100	
			BLM18BA050SN1	1000±23%			
		-	BLM18BB050SN1	5±25%	-	500	
					-	700	
			BLM18BA100SN1	10±25%	-	_	
0603			BLM18BB100SN1		-	500	
0003		-	BLM18BA220SN1	22±25%	-	-	
			BLM18BB220SN1		-		
	For High	n Speed Signal	BLM18BA470SN1	47±25%	-	300	
		ance characteristics) –	BLM18BB470SN1		-	500	
			BLM18BB600SN1	60±25%	-	200	
			BLM18BA750SN1	75±25%	-	300	
			BLM18BB750SN1	10±2070	-	200	
			BLM18BA121SN1		-		
			BLM18BB121SN1	120±25%	-	000	
			BLM18BD121SN1		-	200	
	1		BLM18BB141SN1	-	1	-	

* Please see P.58 "Derating of Rated Current".



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		Type Part Number		Impeda	ince (Ω)	Datad Current (m.)	
Size (EIA Code)		Type Part Number		at 100MHz	at 1GHz	 Rated Current (m 	
			BLM18BB151SN1		-		
			BLM18BD151SN1	150±25%	-	_	
			BLM18BB221SN1		-	_	
			BLM18BD221SN1	220±25%	-	200	
			BLM18BB331SN1		-	_	
			BLM18BD331SN1	330±25%	-	-	
			BLM18BD421SN1	420±25%	-	_	
		n Speed Signal	BLM18BB471SN1		-	50	
	(Snarp Impeda	ance characteristics)	BLM18BD471SN1	470±25%	-	200	
			BLM18BD601SN1	600±25%	-	200	
			BLM18BD102SN1	1000±25%	-	100	
			BLM18BD152SN1	1500±25%	-		
			BLM18BD182SN1	1800±25%	-		
			BLM18BD222SN1	2200±25%	-	50	
			BLM18BD252SN1	2500±25%	-	_	
			BLM18RK121SN1	120±25%	-		
			BLM18RK221SN1	220±25%	-	_	
	For Dig	gital Interface	BLM18RK471SN1	470±25%	-	200	
		-	BLM18RK601SN1	600±25%	-		
			BLM18RK102SN1	1000±25%	-		
			BLM18PG300SN1	30 (Typ.)	-	1000	
			BLM18PG330SN1	33±25%	-	3000*	
	For La	arge Current	BLM18PG600SN1	60 (Typ.)	-	500	
0603			BLM18PG121SN1	120±25%	-	2000*	
			BLM18PG181SN1	180±25%	-	1500*	
			BLM18HG471SN1	470±25%	600 (Typ.)		
		For Standard	BLM18HG601SN1	600±25%	700 (Typ.)	200	
			BLM18HG102SN1	1000±25%	1000 (Typ.)	100	
			BLM18HB121SN1	120±25%	500±40%	200	
			BLM18HB221SN1	220±25%	1100±40%	100	
		For High Speed	BLM18HB331SN1	330±25%	1600±40%	50	
		Signal	BLM18HD471SN1	470±25%	1000 (Typ.)	100	
			BLM18HD601SN1	600±25%	1200 (Typ.)	100	
			BLM18HD102SN1	1000±25%	1700 (Typ.)	50	
			BLM18HK331SN1	330±25%	400±40%		
	GHz Range	For Digital	BLM18HK471SN1	470±25%	600±40%	200	
		Interface	BLM18HK601SN1	600±25%	700±40%	100	
			BLM18HK102SN1	1000±25%	1200±40%	50	
			BLM18EG101TN1	100±25%	140 (Typ.)	2000*	
			BLM18EG121SN1	120±25%	145 (Typ.)	2000*	
			BLM18EG221TN1	220±25%	300 (Typ.)	1000	
		For Standard (Low DC	BLM18EG331TN1	330±25%	450 (Typ.)	500	
		(LOW DC Resistance Type)	BLM18EG391TN1	390±25%	520 (Typ.)	500	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BLM18EG471SN1	470±25%	550 (Typ.)	500	
			BLM18EG601SN1	600±25%	700 (Тур.)	500	
			BLM18GG471SN1	470±25%	1800±30%	100	
			BLM21AG121SN1	120±25%	-		
			BLM21AG151SN1	150±25%	-		
			BLM21AG221SN1	220±25%	-		
0805	For	Standard	BLM21AG331SN1	330±25%	-	200	
			BLM21AG471SN1	470±25%	-		
			BLM21AG601SN1	600±25%	-		
			BLM21AG102SN1	1000±25%			

* Please see P.53 "Derating of Rated Current".

Continued on the following page.



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Continued from the preceding page.

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ze (inches)	Туре	Part Number	Impeda	Impedance (Ω)		
ze (inches)	Туре	Fait Number	at 100MHz	at 1GHz	Rated Current (m	
		BLM21BB050SN1	5±25%	-	500	
		BLM21BB600SN1	60±25%	-	_	
		BLM21BB750SN1	75±25%	-		
		BLM21BB121SN1	120+25%	-		
		BLM21BD121SN1	120±25%	-		
		BLM21BB151SN1	150+259/	-		
		BLM21BD151SN1	150±25%	-		
		BLM21BB201SN1	200±25%	-		
		BLM21BB221SN1	220 1 250/	-		
		BLM21BD221SN1	220±25%	-		
		BLM21BB331SN1	0001050/	-		
	For High Speed Signal (Sharp impedance characteristics)	BLM21BD331SN1	330±25%	-		
		BLM21BD421SN1	420±25%	-	200	
		BLM21BB471SN1	470 - 050/	-		
		BLM21BD471SN1	470±25%	-		
		BLM21BD601SN1	600±25%	-		
0805		BLM21BD751SN1	750±25%	-		
		BLM21BD102SN1	1000±25%	-		
		BLM21BD152SN1	1500±25%	-		
		BLM21BD182SN1	1800±25%	-		
		BLM21BD222SN1	2250 (Typ.)	-		
		BLM21BD222TN1	2200±25%	-		
		BLM21BD272SN1	2700±25%	-		
		BLM21RK121SN1	120±25%	-		
		BLM21RK221SN1	220±25%	-		
	For Digital Interface	BLM21RK471SN1	470±25%	-	200	
		BLM21RK601SN1	600±25%	-		
		BLM21RK102SN1	1000±25%	-		
		BLM21PG220SN1	22±25%	-	6000*	
		BLM21PG300SN1	30 (Typ.)	-		
	For Large Current	BLM21PG600SN1	60±25%	-		
		BLM21PG221SN1	220±25%	-	2000*	
		BLM21PG331SN1	330±25%	-	1500*	
		BLM31PG330SN1	33±25%	-	6000*	
		BLM31PG500SN1	50 (Typ.)	-		
1206	For Large Current	BLM31PG121SN1	120±25%	-	3000*	
		BLM31PG391SN1	390±25%	-	2000*	
		BLM31PG601SN1	600±25%	-	1500*	
		BLM41PG600SN1	60 (Typ.)	-	6000*	
		BLM41PG750SN1	75 (Typ.)	-	3000*	
1806	For Large Current	BLM41PG181SN1	180±25%	-	3000*	
		BLM41PG471SN1	470±25%	-	2000*	
		BLM41PG102SN1	1000±25%	-	1500*	

* Please see P.53 "Derating of Rated Current".



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



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

■ Features (BLM_A Series)

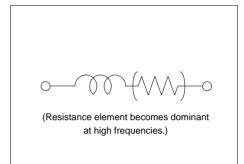
The chip ferrite bead BLM series comprises ferrite beads in the shape of a chip. This ferrite bead generates a high impedance which at high frequency mainly consists of a resistance element. The BLM series is effective in circuits without stable ground lines because the BLM series does not need a connection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

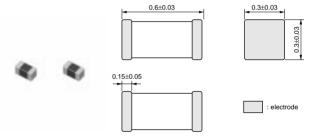
The nickel barrier structure of the external electrodes provides excellent solder heat resistance. BLM_A series generates an impedance from the relatively low frequencies. Therefore BLM_A series is effective in noise suppression in a wide frequency range (30MHz - several hundred MHz). The small size of BLM03 series (0.6x0.3mm) is suitable for noise suppression in small equipment such

BLM03A Series (0201 Size)

as PA modules for cellular phones.

Equivalent Circuit

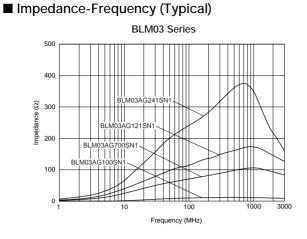




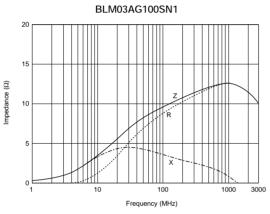
(in mm)

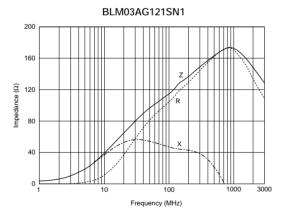
Part Number	art Number (at 100MHz/20°C) (ohm)		DC Resistance (max.) (ohm)	Operating Temperature Range (°C)	
BLM03AG100SN1	LM03AG100SN1 10 (Typ.)		0.1	-55 to +125	
BLM03AG700SN1	70 (Тур.)	200	0.5	-55 to +125	
BLM03AG121SN1	120 ±25%	200	0.8	-55 to +125	
BLM03AG241SN1	240 ±25%	100	1.0	-55 to +125	





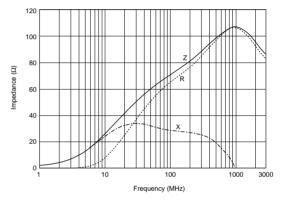
Impedance-Frequency Characteristics



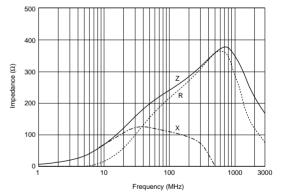


BLM15A Series (0402 Size)

BLM03AG700SN1



BLM03AG241SN1



0.25±0.1

E) **(E**)



BLM15A Series

(in mm)

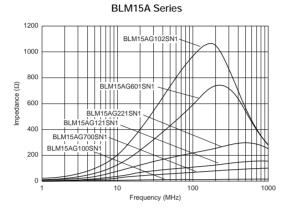


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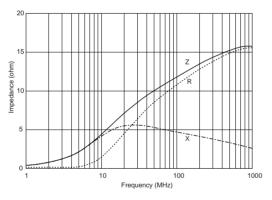
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Part Number	Part Number (at 100MHz/20°C) (ohm)		DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM15AG100SN1	10 (Тур.)	1000	0.05	-55 to +125
BLM15AG700SN1	70 (Тур.)	500	0.15	-55 to +125
BLM15AG121SN1	120 ±25%	500	0.25	-55 to +125
BLM15AG221SN1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

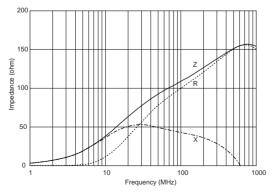
■ Impedance-Frequency (Typical)



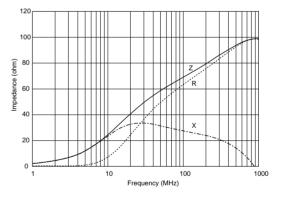
■ Impedance-Frequency Characteristics BLM15AG100SN1



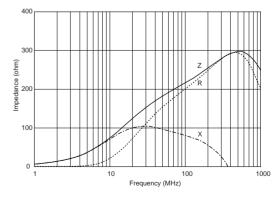
BLM15AG121SN1



BLM15AG700SN1



BLM15AG221SN1



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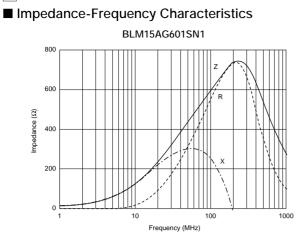
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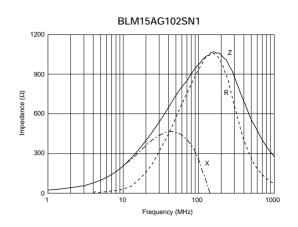




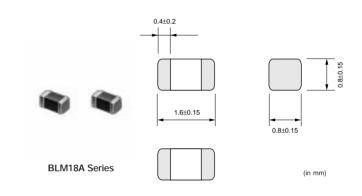
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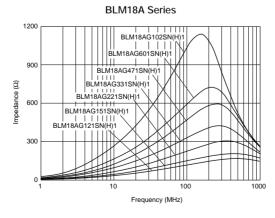


BLM18A Series (0603 Size)



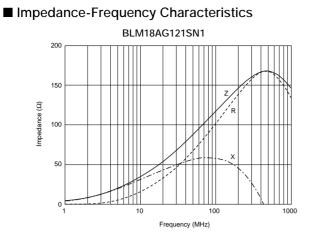
Part Number	Impedance (at 100MHz/20°C) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM18AG121SN1	120 ±25%	200	0.20	-55 to +125
BLM18AG151SN1	150 ±25%	200	0.25	-55 to +125
BLM18AG221SN1	220 ±25%	200	0.30	-55 to +125
BLM18AG331SN1	330 ±25%	200	0.45	-55 to +125
BLM18AG471SN1	470 ±25%	200	0.50	-55 to +125
BLM18AG601SN1	8AG601SN1 600 ±25%		0.50	-55 to +125
BLM18AG102SN1	1000 ±25%	100	0.70	-55 to +125

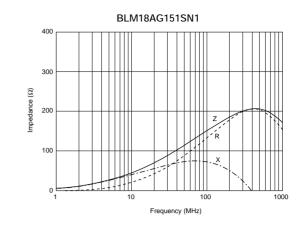
■ Impedance-Frequency (Typical)

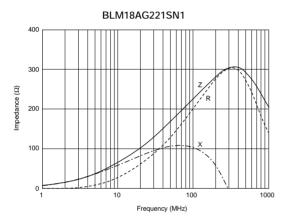


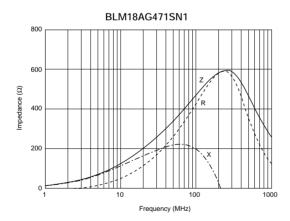


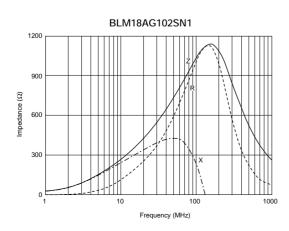
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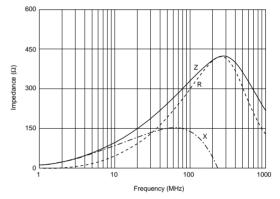


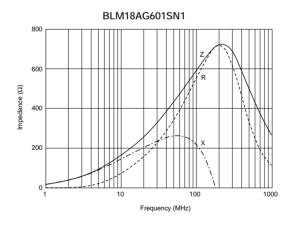










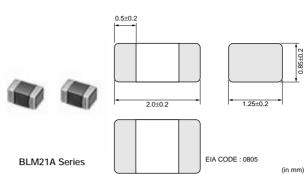




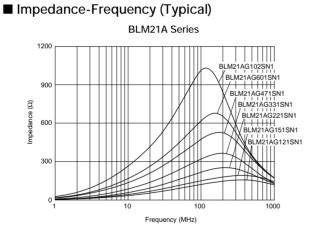
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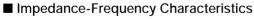
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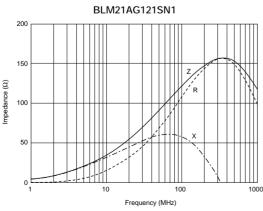
BLM21A Series (0805 Size)

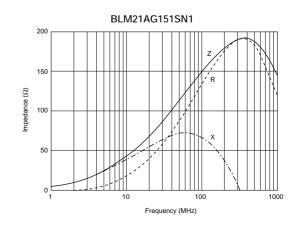


Part Number	Part Number (at 100MHz/20°C) (ohm)		DC Resistance (max.) (ohm)	Operating Temperature Range (°C)
BLM21AG121SN1	120 ±25%	200	0.15	-55 to +125
BLM21AG151SN1	150 ±25%	200	0.15	-55 to +125
BLM21AG221SN1	220 ±25%	200	0.20	-55 to +125
BLM21AG331SN1	330 ±25%	200	0.25	-55 to +125
BLM21AG471SN1	470 ±25%	200	0.25	-55 to +125
BLM21AG601SN1	.M21AG601SN1 600 ±25%		0.30	-55 to +125
BLM21AG102SN1	1000 ±25%	200	0.45	-55 to +125







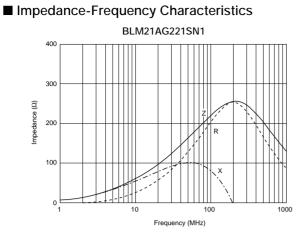


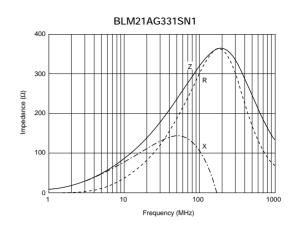
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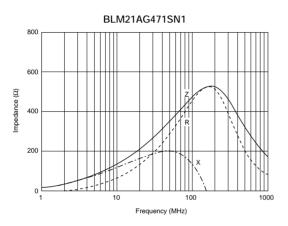


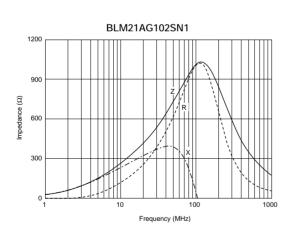
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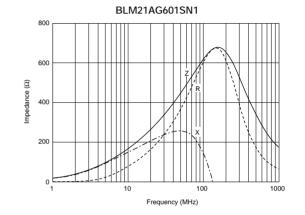
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Chip EMI Suppression Filter Design Kits



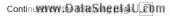


EKEMBL15C (Chip Ferrite Beads 0402 Size)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degree C)		
1	BLM15AG100SN1	20	10Ω (Тур.)	1000	0.05
2	BLM15AG700SN1	20	70Ω (Тур.)	500	0.15
3	BLM15AG121SN1	20	120Ω±25%	500	0.25
4	BLM15AG221SN1	20	220Ω±25%	300	0.35
5	BLM15AG601SN1	20	600Ω±25%	300	0.60
6	BLM15AG102SN1	20	1000 <u>Ω</u> ±25%	200	1.00
7	BLM15BB050SN1	20	5 <u>Ω</u> ±25%	500	0.08
8	BLM15BB100SN1	20	10Ω±25%	300	0.10
9	BLM15BB220SN1	20	22Ω±25%	300	0.20
10	BLM15BB470SN1	20	47 <u>Ω±</u> 25%	300	0.35
11	BLM15BB750SN1	20	75Ω±25%	300	0.40
12	BLM15BB121SN1	20	120Ω±25%	300	0.55
13	BLM15BB221SN1	20	220Ω±25%	200	0.80
14	BLM15BD471SN1	20	470Ω±25%	200	0.60
15	BLM15BD601SN1	20	600Ω±25%	200	0.65
16	BLM15BD102SN1	20	1000Ω±25%	200	0.90

EKEMBL18A (Chip Ferrite Beads 0603 Size/ for Large-current P Type)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degree C)		
1	BLM18AG121SN1	20	120Ω±25%	200	0.20
2	BLM18AG221SN1	20	220Ω±25%	200	0.30
3	BLM18AG471SN1	20	470Ω±25%	200	0.50
4	BLM18AG601SN1	20	600Ω±25%	200	0.50
5	BLM18AG102SN1	20	1000 <u>Ω</u> ±25%	100	0.70
6	BLM18BA050SN1	20	5Ω±25%	500	0.20
7	BLM18BA100SN1	20	10Ω±25%	500	0.25
8	BLM18BA220SN1	20	22Ω±25%	500	0.35
9	BLM18BA470SN1	20	47Ω±25%	300	0.55
10	BLM18BA750SN1	20	75Ω±25%	300	0.70
11	BLM18BA121SN1	20	120Ω±25%	200	0.90
12	BLM18BB100SN1	20	10Ω±25%	500	0.15
13	BLM18BB220SN1	20	22Ω±25%	500	0.25
14	BLM18BB470SN1	20	47Ω±25%	500	0.30
15	BLM18BB600SN1	20	60Ω±25%	200	0.35
16	BLM18BB121SN1	20	120Ω±25%	200	0.50
17	BLM18BB221SN1	20	220Ω±25%	200	0.65
18	BLM18BB471SN1	20	470Ω±25%	50	1.00
19	BLM18BD121SN1	20	120Ω±25%	200	0.40





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Chip EMI Suppression Filter Design Kits

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No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degree C)	Rated Current (mA)	DC Resistance (Ω) max.
20	BLM18BD221SN1	20	220Ω±25%	200	0.45
21	BLM18BD471SN1	20	470Ω±25%	200	0.55
22	BLM18BD601SN1	20	600Ω±25%	200	0.65
23	BLM18BD102SN1	20	1000Ω±25%	100	0.85
24	BLM18BD182SN1	20	1800Ω±25%	50	1.50
25	BLM18BD252SN1	20	2500Ω±25%	50	1.50
26	BLM18HG471SN1	20	470Ω±25%	200	0.85
27	BLM18HG601SN1	20	600Ω±25%	200	1.00
28	BLM18HG102SN1	20	1000Ω±25%	100	1.60
29	BLM18HD471SN1	20	470Ω±25%	100	1.20
30	BLM18HD601SN1	20	600Ω±25%	100	1.50
31	BLM18HD102SN1	20	1000Ω±25%	50	1.80
32	BLM18PG330SN1	20	33Ω±25%	3000	0.025
33	BLM18PG121SN1	20	120Ω±25%	2000	0.05
34	BLM18PG181SN1	20	180Ω±25%	1500	0.09
35	BLM21PG221SN1	20	220Ω (Тур.)	2000	0.05
36	BLM21PG331SN1	20	330Ω (Тур.)	1500	0.09
37	BLM31PG121SN1	20	120Ω (Typ.)	3000	0.025
38	BLM31PG391SN1	20	390Ω (Typ.)	2000	0.05
39	BLM31PG601SN1	20	600Ω (Тур.)	1500	0.09
40	BLM41PG181SN1	20	180Ω (Typ.)	3000	0.025
41	BLM41PG471SN1	20	470Ω (Typ.)	2000	0.05
42	BLM41PG102SN1	20	1000Ω (Typ.)	1500	0.09
43	BLM18RK121SN1	20	120Ω±25%	200	0.25
44	BLM18RK221SN1	20	220Ω±25%	200	0.3
45	BLM18RK471SN1	20	470Ω±25%	200	0.5
46	BLM18RK601SN1	20	600Ω±25%	200	0.6
47	BLM18RK102SN1	20	1000Ω±25%	200	0.8
48	BLM18HK471SN1	20	470Ω±25%	200	0.7
49	BLM18HK601SN1	20	600Ω±25%	100	0.9
50	BLM18HK102SN1	20	1000Ω±25%	50	1.5

•EKEMBL21B (Chip Ferrite Beads 0805 Size)

No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degree C)	Rated Current (mA)	DC Resistance (Ω) max.
1	BLM21AG121SN1	20	120Ω±25%	200	0.15
2	BLM21AG221SN1	20	220Ω±25%	200	0.20
3	BLM21AG471SN1	20	470Ω±25%	200	0.25
4	BLM21AG601SN1	20	600Ω±25%	200	0.30
5	BLM21AG102SN1	20	1000Ω±25%	200	0.45
6	BLM21BB600SN1	20	60Ω±25%	200	0.20
7	BLM21BB750SN1	20	75Ω±25%	200	0.25
8	BLM21BB121SN1	20	120Ω±25%	200	0.25
9	BLM21BB221SN1	20	220Ω±25%	200	0.35
10	BLM21BB471SN1	20	470Ω±25%	200	0.45
11	BLM21BD121SN1	20	120Ω±25%	200	0.25
12	BLM21BD221SN1	20	220Ω±25%	200	0.25
13	BLM21BD471SN1	20	470Ω±25%	200	0.35
14	BLM21BD601SN1	20	600Ω±25%	200	0.35
15	BLM21BD102SN1	20	1000Ω±25%	200	0.40
16	BLM21BD182SN1	20	1800Ω±25%	200	0.50
17	BLM21BD222SN1	20	2250Ω (Typ.)	200	0.60



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Chip EMI Suppression Filter Design Kits

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No.	Part Number	Quantity (pcs.)	Impedance typ. (at 100MHz, 20 degree C)	Rated Current (mA)	DC Resistance (Ω) max.
18	18 BLM21BD222TN1 20		2200Ω±25%	200	0.60
19	19 BLM21BD272SN1 20		2700Ω±25%	200	0.80

EKEMFL18B (Chip EMIFIL LC Combined Type)

No.	Part Number	Quantity (pcs.)	Cut off Frequency	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)	DC Resistance max.
1	NFL18ST107X1C3	20	100MHz	16 V	100mA	1000	4.5Ω
2	NFL18ST157X1C3	20	150MHz	16 V	100mA	1000	4.0Ω
3	NFL18ST207X1C3	20	200MHz	16 V	150mA	1000	3.5Ω
4	NFL18ST307X1C3	20	300MHz	16 V	200mA	1000	1.8Ω
5	NFL18ST507X1C3	20	500MHz	16 V	200mA	1000	1.5Ω
6	NFL18SP157X1A3	20	150MHz	10 V	100mA	1000	3.0Ω
7	NFL18SP207X1A3	20	200MHz	10 V	100mA	1000	3.0Ω
8	NFL18SP307X1A3	20	300MHz	10 V	100mA	1000	3.0Ω
9	NFL18SP507X1A3	20	500MHz	10 V	100mA	1000	2.0Ω
10	NFL21SP206X1C3	20	20MHz	16 V	100mA	1000	8.5Ω
11	NFL21SP506X1C3	20	50MHz	16 V	150mA	1000	3.5Ω
12	NFL21SP706X1C3	20	70MHz	16 V	150mA	1000	3.0Ω
13	NFL21SP107X1C3	20	100MHz	16 V	200mA	1000	2.0Ω
14	NFL21SP157X1C3	20	150MHz	16 V	200mA	1000	2.0Ω
15	NFL21SP207X1C3	20	200MHz	16 V	250mA	1000	1.5Ω
16	NFL21SP307X1C3	20	300MHz	16 V	300mA	1000	1.2Ω
17	NFL21SP407X1C3	20	400MHz	16 V	300mA	1000	1.2Ω
18	NFL21SP507X1C3	20	500MHz	16 V	300mA	1000	1.2Ω

No.	Part Number	Dart Number Quantity Cut of			Attenuation (dB min.)									Rated	Rated
NO.		(pcs.)	Frequency	10MHz	20MHz	50MHz	100MHz	150MHz	200MHz	300MHz	400MHz	500MHz	1GHz	Current	Voltage
19	NFW31SP106X1E4	20	10MHz	6dB max	5	25	25	-	25	-	-	30	30	200mA	25V
20	NFW31SP206X1E4	20	20MHz	-	6dB max	5	25	-	25	-	-	30	30	200mA	25V
21	NFW31SP506X1E4	20	50MHz	-	-	6dB max	10	-	30	-	-	30	30	200mA	25V
22	NFW31SP107X1E4	20	100MHz	-	-	-	6dB max	-	5	-	-	20	30	200mA	25V
23	NFW31SP157X1E4	20	150MHz	-	-	-	-	6dB max	-	10	20	30	30	200mA	25V
24	NFW31SP207X1E4	20	200MHz	-	-	-	-	-	6dB max	-	-	10	30	200mA	25V
25	NFW31SP307X1E4	20	300MHz	-	-	-	-	-	-	6dB max	-	5	15	200mA	25V
26	NFW31SP407X1E4	20	400MHz	-	-	-	-	-	-	-	6dB max	-	10	200mA	25V
27	NFW31SP507X1E4	20	500MHz	-	-	-	-	-	-	-	-	6dB max	10	200mA	25V

•EKEMFA31B (Chip EMIFIL Capacitor Array Type/ Capacitor Type/ LC Combined Type)

No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)
1	NFA31CC220S1E4	20	22pF±20%	25 V	200mA	1000
2	NFA31CC470S1E4	20	47pF±20%	25 V	200mA	1000
3	NFA31CC101S1E4	20	100pF±20%	25 V	200mA	1000
4	NFA31CC221S1E4	20	220pF±20%	25 V	200mA	1000
5	NFA31CC471R1E4	20	470pF±20%	25 V	200mA	1000
6	NFA31CC102R1E4	20	1000pF±20%	25 V	200mA	1000
7	NFA31CC222R1E4	20	2200pF±20%	25 V	200mA	1000
8	NFA31CC223R1C4	20	22000pF±20%	16 V	200mA	1000
9	NFA31GD1006R84	20	10pF±20%	6 V	50mA	1000
10	NFA31GD1004704	20	10pF±20%	6 V	20mA	1000
11	NFA31GD1001014	20	10pF±20%	6 V	15mA	1000
12	NFA31GD4706R84	20	47pF±20%	6 V	50mA	1000

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Chip EMI Suppression Filter Design Kits

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•EKEMFA31B (Chip EMIFIL Capacitor Array Type/ Capacitor Type/ LC Combined Type)

No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)
13	NFA31GD4704704	20	47pF±20%	6 V	20mA	1000
14	NFA31GD4701014	20	47pF±20%	6 V	15mA	1000
15	NFA31GD1016R84	20	100pF±20%	6 V	50mA	1000
16	NFA31GD1014704	20	100pF±20%	6 V	20mA	1000
17	NFA31GD1011014	20	100pF±20%	6 V	15mA	1000

EKEMDL21D (Chip Common Mode Choke Coils)

No.	Part Number	Quantity (pcs.)	Common Mode Impedance typ. (at 100MHz, 20 degree C)	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)
1	DLW21HN670SQ2	10	67Ω (Тур.)	50V	330mA	10
2	DLW21HN900SQ2	10	90Ω (Typ.)	50V	330mA	10
3	DLW21HN121SQ2	10	120Ω (Тур.)	50V	280mA	10
4	DLW21HN181SQ2	10	180Ω (Тур.)	50V	250mA	10
5	DLW21SN670SQ2	10	67Ω (Тур.)	50V	400mA	10
6	DLW21SN900SQ2	10	90Ω (Typ.)	50V	330mA	10
7	DLW21SN121SQ2	10	120Ω (Typ.)	50V	370mA	10
8	DLW21SN181SQ2	10	180Ω (Тур.)	50V	330mA	10
9	DLW21SN261SQ2	10	260Ω (Тур.)	50V	300mA	10
10	DLW21SN371SQ2	10	370Ω (Тур.)	50V	280mA	10
11	DLW31SN900SQ2	10	90Ω (Typ.)	50V	370mA	10
12	DLW31SN161SQ2	10	160Ω (Typ.)	50V	340mA	10
13	DLW31SN261SQ2	10	260Ω (Тур.)	50V	310mA	10
14	DLW31SN601SQ2	10	600Ω (Тур.)	50V	260mA	10
15	DLW31SN102SQ2	10	1000Ω (Тур.)	50V	230mA	10
16	DLW31SN222SQ2	10	2200Ω (Typ.)	50V	200mA	10
17	DLW5AHN402SQ2	5	4000Ω (Typ.)	50V	200mA	10
18	DLW5BSN302SQ2	5	3000Ω (Тур.)	50V	500mA	10
19	DLW5BSN152SQ2	5	1500Ω (Тур.)	50V	1000mA	10
20	DLW5BSN102SQ2	5	1000Ω (Тур.)	50V	1500mA	10
21	DLW5BSN351SQ2	5	350Ω (Typ.)	50V	2000mA	10
22	DLW5BSN191SQ2	5	190Ω (Typ.)	50V	5000mA	10
23	DLP11SN900SL2	10	90Ω (Typ.)	5V	160mA	100
24	DLP11SN121SL2	10	120Ω (Тур.)	5V	140mA	100
25	DLP11SN161SL2	10	160Ω (Тур.)	5V	120mA	100
26	DLP11SN201SL2	10	200Ω (Тур.)	5V	130mA	100
27	DLP31DN900ML4	10	90Ω±20%	10V	160mA	100
28	DLP31DN131ML4	10	130Ω±20%	10V	120mA	100
29	DLP31DN201ML4	10	200Ω±20%	10V	100mA	100
30	DLP31DN321ML4	10	320Ω±20%	10V	80mA	100
31	DLP31DN441ML4	10	440 <u>Ω±</u> 20%	10V	70mA	100

EKEMNFMPB

No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)
1	NFM18PC104R1C3	20	0.1µF±20%	16 V	2A	1000
2	NFM18PC105R0J3	20	1µF±20%	6.3 V	2A	500
3	NFM21PC104R1E3	20	0.1µF±20%	25 V	2A	1000
4	NFM21PC224R1C3	20	0.22µF±20%	16 V	2A	1000
5	NFM21PC474R1C3	20	0.47µF±20%	16 V	2A	1000
6	NFM21PC105B1A3	20	1µF±20%	10 V	4A	500

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Chip EMI Suppression Filter Design Kits

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No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)
7	NFM21PC105B1C3	20	1µF±20%	16 V	4A	500
8	NFE31PT152Z1E9	20	1500pF +50/-20%	25 V	6A	1000
9	NFE31PT222Z1E9	20	2200pF±50%	25 V	6A	1000
10	NFE61PT102E1H9	20	1000pF +80/-20%	50 V	2A	1000
11	NFE61PT472C1H9	20	4700pF +80/-20%	50 V	2A	1000
12	NFM41PC204F1H3	20	0.2µF +80/-20%	50 V	2A	1000
13	NFM41PC155B1E3	20	1.5μF±20%	25 V	6A	300

EKEMNFMCA

No.	Part Number	Quantity (pcs.)	Capacitance	Rated Voltage	Rated Current	Insulation Resistance (M Ω min.)
1	NFM18CC220U1C3	20	22pF±20%	16 V	400mA	1000
2	NFM18CC470U1C3	20	47pF±20%	16 V	400mA	1000
3	NFM18CC101R1C3	20	100pF±20%	16 V	500mA	1000
4	NFM18CC221R1C3	20	220pF±20%	16 V	500mA	1000
5	NFM18CC471R1C3	20	470pF±20%	16 V	500mA	1000
6	NFM18CC102R1C3	20	1000pF±20%	16 V	600mA	1000
7	NFM18CC222R1C3	20	2200pF±20%	16 V	700mA	1000
8	NFM18CC223R1C3	20	22000pF±20%	16 V	1000mA	1000
9	NFM21CC220U1H3	20	22pF±20%	50 V	700mA	1000
10	NFM21CC470U1H3	20	47pF±20%	50 V	700mA	1000
11	NFM21CC101U1H3	20	100pF±20%	50 V	700mA	1000
12	NFM21CC221R1H3	20	220pF±20%	50 V	700mA	1000
13	NFM21CC471R1H3	20	470pF±20%	50 V	1000mA	1000
14	NFM21CC102R1H3	20	1000pF±20%	50 V	1000mA	1000
15	NFM21CC222R1H3	20	2200pF±20%	50 V	1000mA	1000
16	NFM21CC223R1H3	20	22000pF±20%	50 V	2000mA	1000

