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# SMD/BLOCK Type EMI Suppression Filters EMIFIL®



## Introduction

Murata Manufacturing Co., Ltd. has been developing the EMI suppression device market since the invention of 3 terminal capacitor DS310 series in 1979. Also, we have been striving to develop and popularize new noise countermeasure technologies as well as new products in the concept of "Develop unique products," to become our customer's best solution partner. We hope you can find the key solution to your noise problem.

### Explanation of symbols in this catalog

	Features of each series	Features of each item
All Products	 <b>Flow</b> Flow soldering available	 <b>New</b> New product
	 <b>Reflow</b> Reflow soldering available	 <b>Kit</b> Exist in design kit
	 <b>Hi Power</b> Meets large current lines	 <b>≥1A</b> Rated current 1A or more
Chip Ferrite Bead	 <b>GHz</b> Meets high frequency noise up to 1-2GHz	 <b>≥3A</b> Rated current 3A or more
	 <b>Hi-GHz</b> Meets ultra high frequency noise up to 10GHz	 <b>≥10A</b> Rated current 10A or more
LC Combined Type Filter		 <b>DTV</b> Low cut-off frequency type for UHF band noise, which affects digital TV tuner
Chip Common Mode Choke Coil		 <b>HD</b> For high speed differential signal lines (USB2.0/LVDS/IEEE1394 etc.)
		 <b>UD</b> For ultra high speed differential signal lines (HDMI/DVI/Display Port/USB3.0 etc.)
		 <b>Imp Match</b> Line impedance has been matched to transmission lines

### EU RoHS Compliant

- All the products in this catalog comply with EU RoHS.
- EU RoHS is "the European Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment."
- For more details, please refer to our website 'Murata's Approach for EU RoHS' (<http://www.murata.com/info/rohs.html>).

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# CONTENTS

Selection Guide for Noise Suppression Filters .....	2
EMI Filter Selection by Application .....	4
• Digital Still Camera .....	4
• Blu-ray/DVD .....	6
• Smartphone .....	5
• LCD-TV .....	7
EMI Filter Selection by Circuits and Noise Frequency .....	8
Product Guide .....	10

## BL<sup>□</sup> Chip Ferrite Bead

Series Introduction .....	14
Part Numbering .....	16
Series Line Up .....	18
Product Detail .....	24
⚠ Caution/Notice .....	99
Soldering and Mounting .....	100
Packaging .....	104
Design Kits .....	105

## NF<sup>□</sup> Chip EMIFIL<sup>®</sup>

Series Introduction .....	112
Part Numbering .....	114
Series Line Up .....	117
Product Detail .....	121
⚠ Caution/Notice .....	154
Soldering and Mounting .....	156
Packaging .....	163
Design Kits .....	165

## DL<sup>□</sup>/PL<sup>□</sup> Chip Common Mode Choke Coil

Series Introduction .....	170
Part Numbering .....	172
Series Line Up .....	174
Product Detail .....	177
⚠ Caution/Notice .....	203
Soldering and Mounting .....	205
Packaging .....	212
Design Kits .....	214

## BNX Block Type EMIFIL<sup>®</sup>

Series Line Up .....	218
Function Example .....	218
Product Detail .....	221
⚠ Caution/Notice .....	225
Soldering and Mounting .....	227
Packaging .....	231
Design Kits .....	232

## EA Microwave Absorber




Part Numbering .....	234
Product Detail .....	235
Notice .....	238

Product Guide by Size .....	239
Part Number Quick Reference .....	240
Alphabetic Product Name Index .....	240
Introduction of Related Catalogs .....	241
Introduction of EMI/MLCC/Inductor special web site "EMICON-FUN!" .....	242

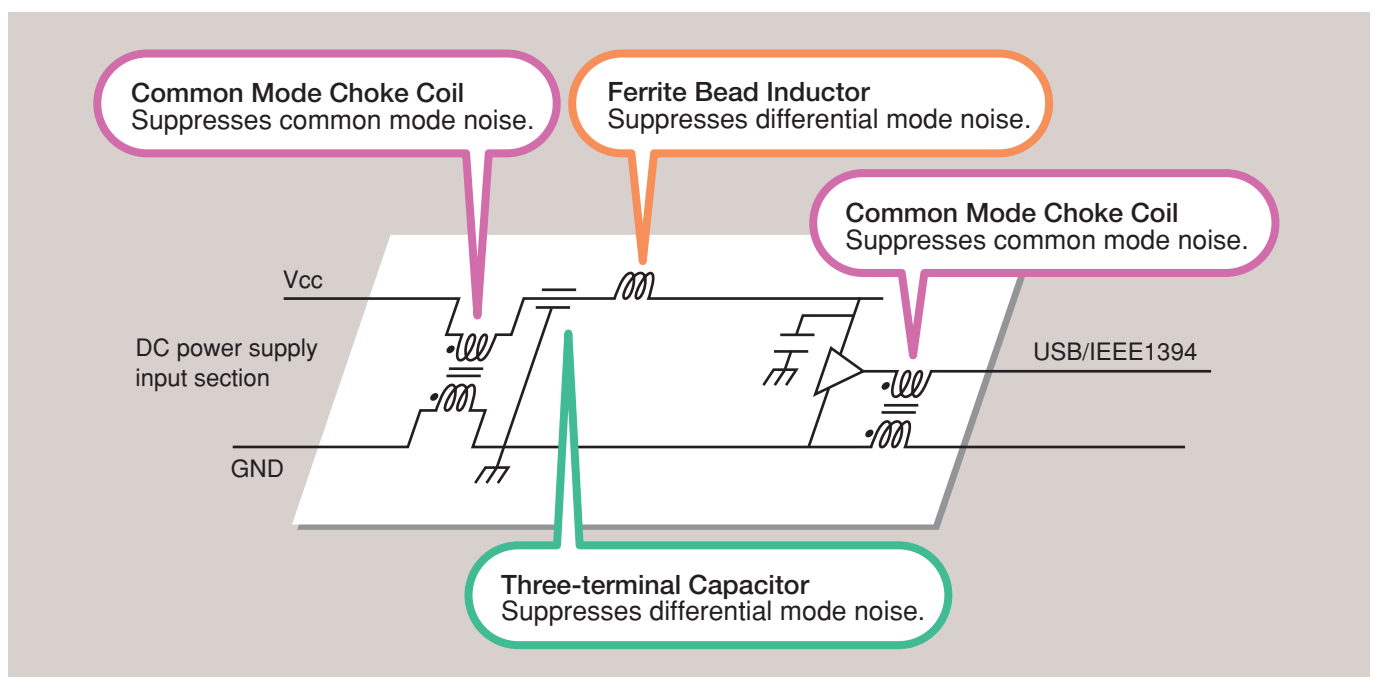
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# Selection Guide for Noise Suppression Filters

## ● Features & Suitable Circuits

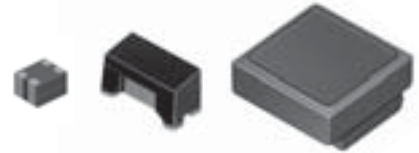
Type	Features	Suitable Circuits
<b>Ferrite Bead</b> BLM/BLA Series 	<ul style="list-style-type: none"> <li>• Miniaturized</li> <li>• GND connection unnecessary</li> <li>• Effective at low impedance line</li> </ul>	<ul style="list-style-type: none"> <li>• Application set with less noise radiation</li> <li>• Low impedance line</li> </ul>
<b>Capacitor Type</b> NFM/NFA/NFE/NFR/ NFL/NFW Series 	<ul style="list-style-type: none"> <li>• Great noise suppression effect</li> <li>• With effect as By-Pass capacitor (Lineup for Power)</li> <li>• Good noise separation from signal (LC filter for Signal)</li> <li>• Effective at high impedance line</li> </ul>	<ul style="list-style-type: none"> <li>• Application set with higher noise radiation</li> <li>• High impedance line</li> <li>• Circuit with By-Pass capacitor</li> <li>• Circuit driven by high frequency</li> </ul>
<b>Common Mode Choke Coil</b> 	<ul style="list-style-type: none"> <li>• Possible to suppress noise with less affect of ultra high speed signal</li> <li>• Great effect for common mode noise</li> <li>• Less magnetic saturation by current</li> </ul>	<ul style="list-style-type: none"> <li>• High speed differential signal line</li> <li>• I/F cable driver</li> <li>• Power line</li> </ul>

## ● Example



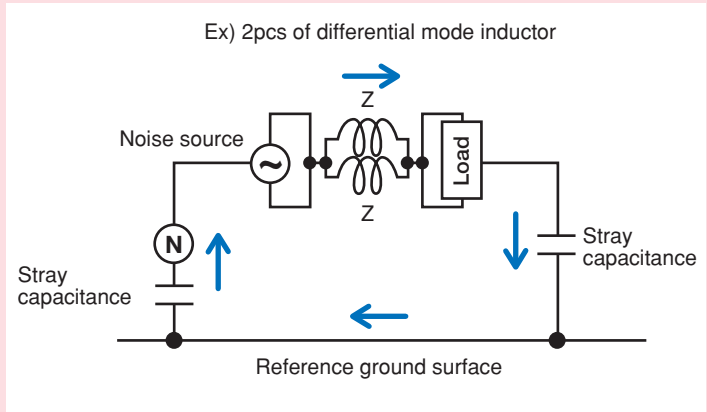
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## ● Advantages to Using Common Mode Choke Coils



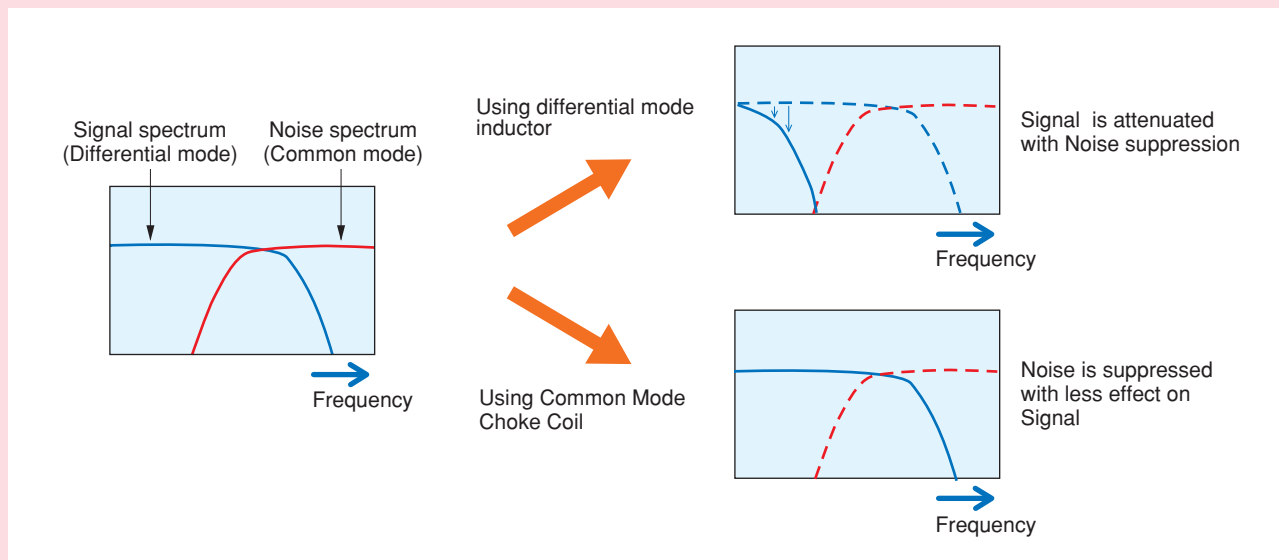
### 1. Great Effect for Common Mode Noise

Differential mode inductors work as a half impedance for common mode noise. Common Mode Choke Coils are effective for common mode noise.



### 2. Possible to Suppress Noise with Less Affect of Ultra High Speed Signal

Common Mode Choke Coils can suppress Noise with less affect of Signal, even if the frequency range of Signal and Noise are the same, because they separate each conductive mode of current.



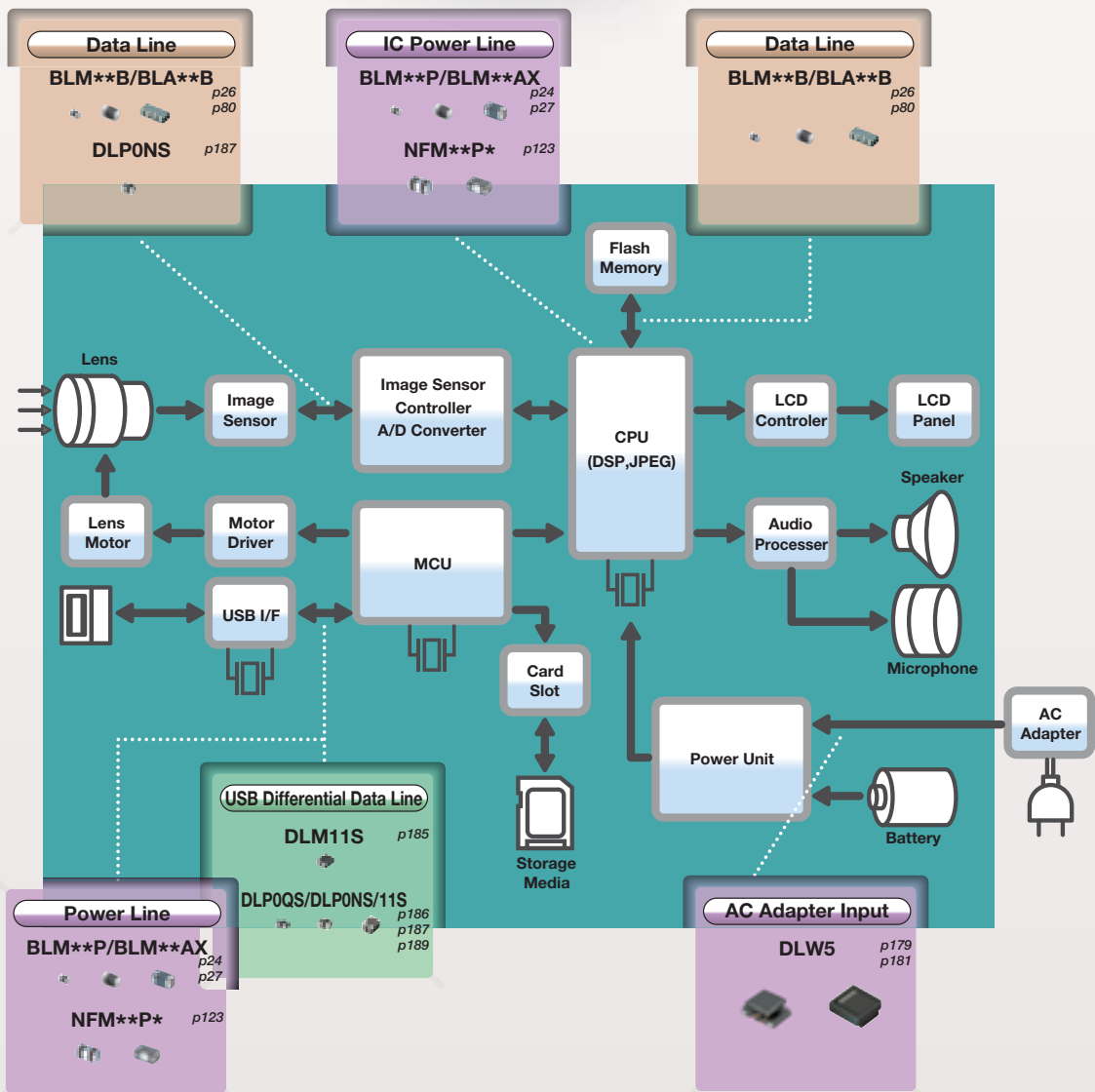
### 3. Less Magnetic Saturation by Current

Common Mode Choke Coils are effective for noise suppression of DC power lines, due to their less magnetic saturation at high power current, that comes from their construction of cancelling magnetic flux of differential mode current at each coil.

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## Digital Still Camera

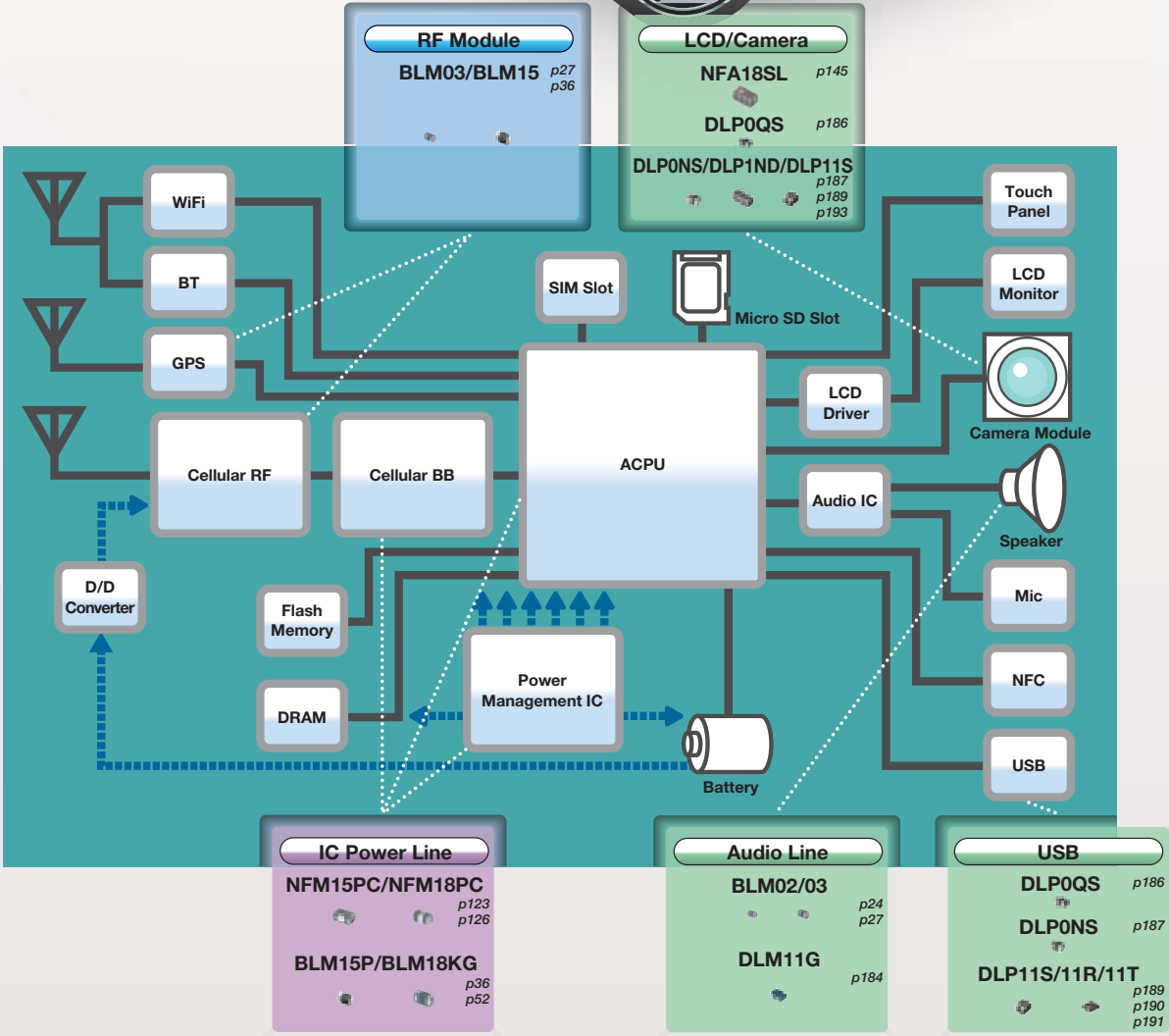
Application Sample



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# Smartphone

Application Sample

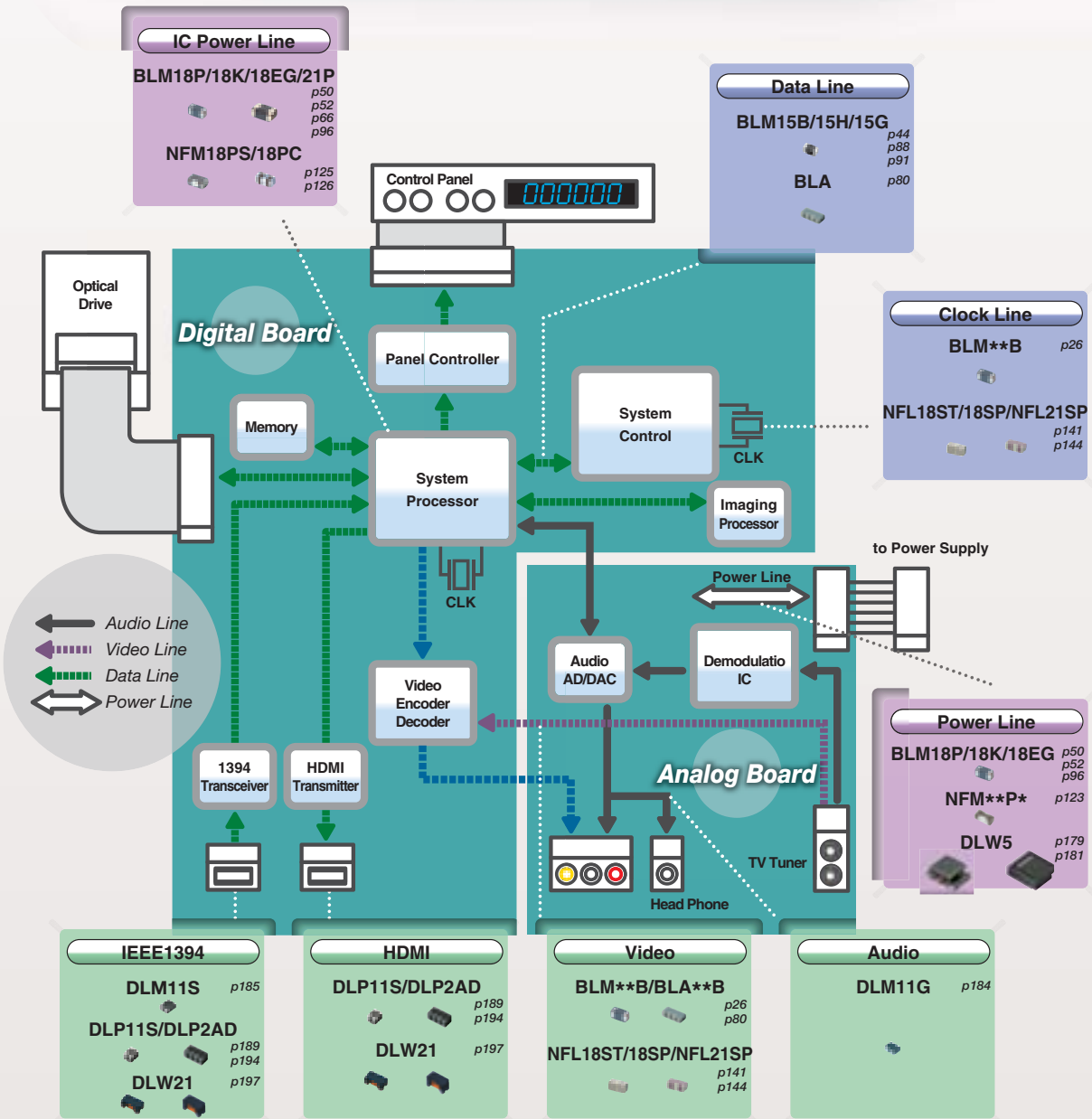


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# Blu-ray/DVD

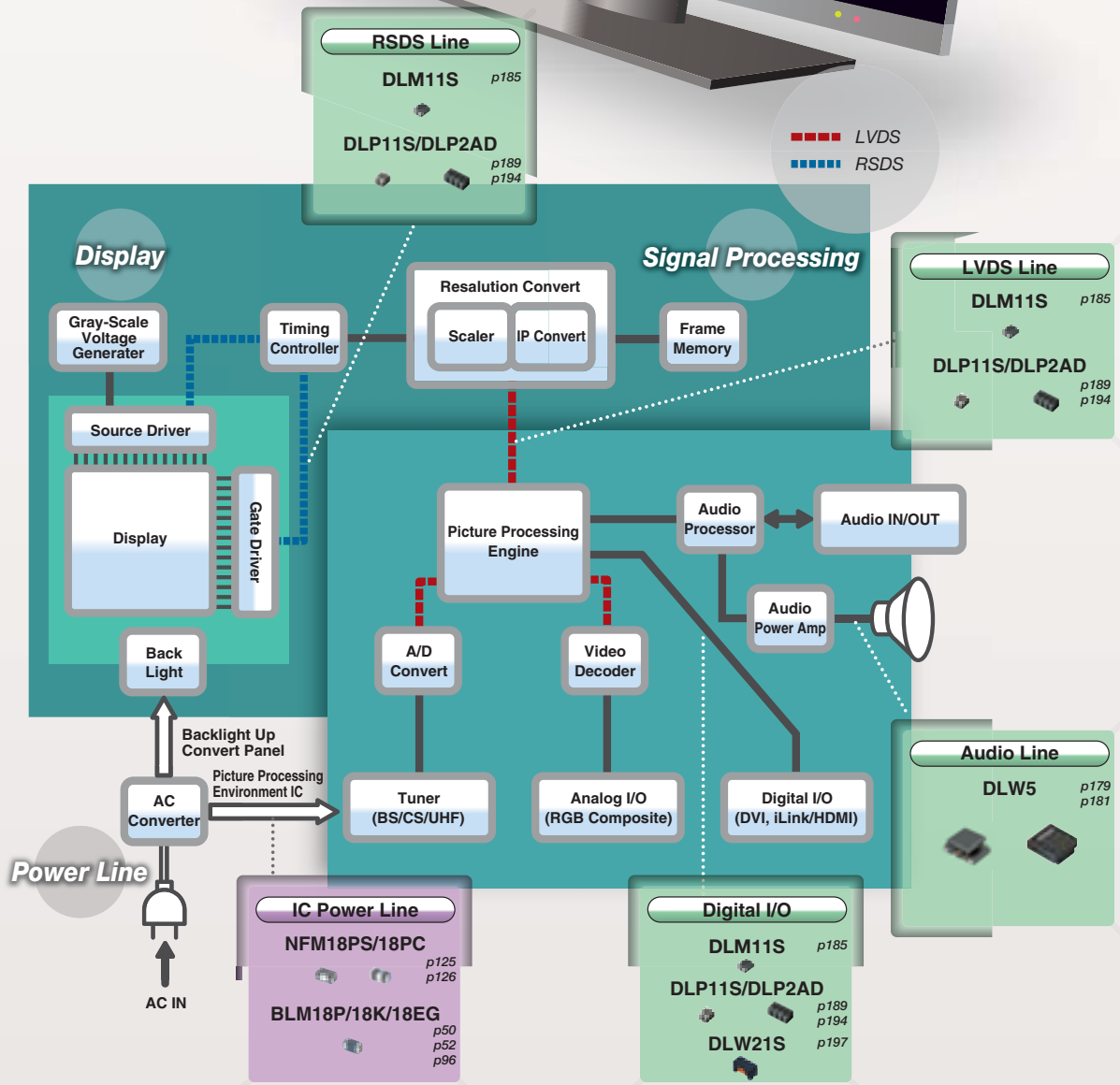
Application Sample



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# LCD-TV

Application Sample



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# EMI Filter Selection by Circuits and Noise Frequency





























## ● Chip Ferrite Bead / Chip EMIFIL®

		Circuit Type?		
		Power Line	General Signal Line Under 10MHz	High Speed Signal Line Over 10MHz
Noise Frequency: Under 1GHz	Inductor Type (Suppression Effect: Normal)	<b>BLM02AX</b> 01005(0402)/Imp.10-120Ω <i>p24</i>	<b>BLM03AX</b> 0201(0603)/0.2-1A/Imp.10-1000Ω <i>p30</i>	<b>BLM02BX</b> 01005(0402)/Imp.150Ω <i>p26</i>
		<b>BLM03PG</b> 0201(0603)/0.75-0.9A/Imp.22-33Ω <i>p27</i>	<b>BLM03AG</b> 0201(0603)/Imp.10-1000Ω <i>p32</i>	<b>BLM03B</b> 0201(0603)/Imp.10-600Ω <i>p34</i>
		<b>BLM03PX</b> 0201(0603)/1-1.8A/Imp.22-80Ω <i>p28</i>	<b>BLM15AG</b> 0402(1005)/Imp.10-1000Ω <i>p42</i>	<b>BLM15BX</b> 0402(1005)/0.25-0.6A/Imp.75-1800Ω <i>p44</i>
		<b>BLM15AX</b> 0402(1005)/0.35-1.74A/Imp.10-1000Ω <i>p40</i>	<b>BLM18A</b> 0603(1608)/Imp.120-1000Ω <i>p56</i>	<b>BLM15B</b> 0402(1005)/Imp.5-1800Ω <i>p46</i>
		<b>BLM15PX</b> 0402(1005)/0.9-3A/Imp.33-600Ω <i>p36</i>	<b>BLM18A</b> 0603(1608)/Imp.120-1000Ω <i>p56</i>	<b>BLM18B</b> 0603(1608)/Imp.5-2500Ω <i>p58</i>
		<b>BLM15PG/PD</b> 0402(1005)/1-2.2A/Imp.10-120Ω <i>p38</i>	<b>BLM18R</b> 0603(1608)/Imp.120-1000Ω <i>p62</i>	<b>BLM21B</b> 0805(2012)/Imp.5-2700Ω <i>p70</i>
		<b>BLM18P</b> 0603(1608)/0.5-3A/Imp.30-470Ω <i>p50</i>	<b>BLM21R</b> 0805(2012)/Imp.120-1000Ω <i>p73</i>	<b>BLA2AB</b> 0804(2010)/Imp.10-1000Ω <i>p80</i>
		<b>BLM21P</b> 0805(2012)/1.5-6A/Imp.22-330Ω <i>p66</i>	<b>BLM21R</b> 0805(2012)/Imp.120-1000Ω <i>p73</i>	<b>BLA31B</b> 1206(3216)/Imp.120-1000Ω <i>p83</i>
		<b>BLM31P</b> 1206(3216)/1.5-6A/Imp.33-600Ω <i>p75</i>	<b>BLA2AA</b> 0804(2010)/Imp.120-1000Ω <i>p80</i>	
		<b>BLM41P</b> 1806(4516)/1.5-6A/Imp.60-1000Ω <i>p77</i>	<b>BLA31A</b> 1206(3216)/Imp.30-1000Ω <i>p83</i>	
<b>BLE32P</b> 1210(3225)/10A/Imp.30Ω <i>p79</i>				
<b>BLM18K</b> 0603(1608)/1.3-6A/Imp.26-600Ω <i>p52</i>				
<b>BLM18S</b> 0603(1608)/1.5-6A/Imp.26-330Ω <i>p54</i>				
Noise Frequency: High	Capacitor Type (Suppression Effect: High)	<b>NFM15PC</b> 0402(1005)/Cap.0.047-4.3μF <i>p123</i>	<b>NFM15CC</b> 0402(1005)/Cap.2200-22000pF <i>p134</i>	<b>NFL15ST</b> 0402(1005)/Cut off 150-500MHz <i>p140</i>
		<b>NFM18PC</b> 0603(1608)/2-4A/Cap.0.1-2.2μF <i>p126</i>	<b>NFM18CC</b> 0603(1608)/Cap.22-22000pF <i>p135</i>	<b>NFL18ST</b> 0603(1608)/Cut off 50-500MHz <i>p141</i>
		<b>NFM21PC</b> 0805(2012)/2-6A/Cap.0.1-4.7μF <i>p129</i>	<b>NFM21CC</b> 0805(2012)/Cap.22-22000pF <i>p136</i>	<b>NFL18SP</b> 0603(1608)/Cut off 150-500MHz <i>p143</i>
		<b>NFM3DPC</b> 1205(3212)/2A/Cap.0.022μF <i>p130</i>	<b>NFM3DCC</b> 1205(3212)/Cap.22-22000pF <i>p137</i>	<b>NFL21SP</b> 0805(2012)/Cut off 10-500MHz <i>p144</i>
		<b>NFM31PC</b> 1206(3216)/6A/Cap.27μF <i>p131</i>	<b>NFM41CC</b> 1806(4516)/Cap.22-22000pF <i>p138</i>	<b>NFW31SP</b> 1206(3216)/Cut off 10-500MHz <i>p150</i>
		<b>NFM31KC</b> 1206(3216)/6-10A/Cap.0.01-0.1μF <i>p132</i>	<b>NFA31CC</b> 1206(3216)/Cap.22-22000pF <i>p139</i>	<b>NFR21GD</b> 0805(2012)/22-100Ω/Cap.10-100pF <i>p152</i>
		<b>NFM41PC</b> 1806(4516)/2-6A/Cap.0.2-1.5μF <i>p133</i>	<b>NFE31PT</b> 1206(3216)/Cap.22-2200pF <i>p121</i>	<b>NFA31GD</b> 1206(3216)/6.8-100Ω/Cap.10-100pF <i>p153</i>
		<b>NFE31PT</b> 1206(3216)/6A/Cap.22-2200pF <i>p121</i>	<b>NFE61PT</b> 2706(6816)/2A/Cap.33-4700pF <i>p122</i>	<b>NFA18SL/NFA18SD</b> 0603(1608)/Cut off 50-480MHz <i>p145</i>
		<b>NFE61PT</b> 2706(6816)/2A/Cap.33-4700pF <i>p122</i>		<b>NFA21SL</b> 0805(2012)/Cut off 50-330MHz <i>p148</i>
		<b>BNX022/023</b> 10-15A <i>p221</i>		
Noise Frequency: GHz Band (800MHz to 2.5GHz)	Inductor Type (Suppression Effect: Normal)	<b>BLM03HG</b> 0201(0603)/Imp.600-1200Ω <i>p85</i>	<b>BLM03HD</b> 0201(0603)/Imp.330-1000Ω <i>p85</i>	
		<b>BLM15HG</b> 0402(1005)/Imp.600-1000Ω <i>p88</i>	<b>BLM03HB</b> 0201(0603)/Imp.190Ω <i>p85</i>	
		<b>BLM18HG</b> 0603(1608)/Imp.470-1000Ω <i>p92</i>	<b>BLM15HD</b> 0402(1005)/Imp.600-1800Ω <i>p88</i>	
		<b>BLM18HK</b> 0603(1608)/Imp.330-1000Ω <i>p92</i>	<b>BLM15HB</b> 0402(1005)/Imp.120-220Ω <i>p88</i>	
		<b>BLM18HE</b> 0603(1608)/0.5-0.8A/Imp.600-1500Ω <i>p92</i>	<b>BLM18HD</b> 0603(1608)/Imp.470-1000Ω <i>p92</i>	
		<b>BLM03E</b> 0201(0603)/0.4-0.6A/Imp.25-50Ω <i>p87</i>	<b>BLM18HE</b> 0603(1608)/Imp.600-1500Ω <i>p92</i>	
		<b>BLM15E</b> 0402(1005)/0.7-1.5A/Imp.120-220Ω <i>p90</i>	<b>BLM18HB</b> 0603(1608)/Imp.120-330Ω <i>p92</i>	
		<b>BLM18E</b> 0603(1608)/0.5-2A/Imp.100-600Ω <i>p96</i>		
		<b>NFM18PS</b> 0603(1608)/2A/Cap.0.47-1.0μF <i>p125</i>		<b>NFL18ST</b> 0603(1608)/Cut off 50-500MHz <i>p141</i>
		<b>NFM21PS</b> 0805(2012)/4A/Cap.10μF <i>p128</i>		<b>NFA18SL/NFA18SD</b> 0603(1608)/Cut off 50-480MHz <i>p145</i>
Noise Frequency: High-Freq Band (1GHz to 10GHz)	Inductor Type	<b>BLM15GG</b> 0402(1005)/Imp.220-470Ω <i>p91</i>	<b>BLM15GA</b> 0402(1005)/Imp.75Ω <i>p91</i>	
		<b>BLM18G</b> 0603(1608)/Imp.470Ω <i>p98</i>		

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●Chip Common Mode Choke Coil

Circuit Type?

DC Power Line	High Speed Differential Signal Line		Audio Line
	High Speed Signal Line (USB/LVDS/IEEE1394/mipi etc.)	Ultra High Speed Signal Line (HDMI/DVI/Display Port etc.)	
 <b>DLW5AH</b> <small>p177</small> 2014(5036)/0.2A/Imp.4000Ω	 <b>DLM11S</b> <small>p185</small> 0504(1210)/Imp.45-90Ω	 <b>DLP0QSA</b> <small>p186</small> 025020(0605)/Imp.7-35Ω	 <b>DLM11G</b> <small>p184</small> 0504(1210)/Imp.600Ω
 <b>DLW5AT</b> <small>p179</small> 2014(5036)/1-6A/Imp.50-2700Ω	 <b>DLP0QSN</b> <small>p186</small> 025020(0605)/Imp.60Ω	 <b>DLP0NSA</b> <small>p187</small> 03025(0806)/Imp.7-15Ω	 <b>DLW5AT</b> <small>p179</small> 2014(5036)/1-6A/Imp.50-2700Ω
 <b>DLW5BS</b> <small>p177</small> 2020(5050)/0.5-5A/Imp.190-3000Ω	 <b>DLP0NSC/SN</b> <small>p187</small> 03025(0806)/Imp.28-120Ω	 <b>DLP11SA</b> <small>p189</small> 0504(1210)/Imp.35-90Ω	 <b>DLW5BT</b> <small>p179</small> 2020(5050)/1.5-6A/Imp.100-1400Ω
 <b>DLW5BT</b> <small>p179</small> 2020(5050)/1.5-6A/Imp.100-1400Ω	 <b>DLP11SN</b> <small>p189</small> 0504(1210)/Imp.67-330Ω	 <b>DLP11RB</b> <small>p189</small> 0504(1210)/Imp.15-40Ω	
<b>High Current Type Automotive Available</b>	 <b>DLP11RN</b> <small>p189</small> 0504(1210)/Imp.45Ω	 <b>DLP11TB</b> <small>p189</small> 0504(1210)/Imp.80Ω	
 <b>PLT10HH</b> <small>p202</small> 12.9mmx6.6mm /6-18A/Imp.45-1000Ω	 <b>DLW21H</b> <small>p199</small> 0805(2012)/Imp.67-180Ω	<b>Array Type</b>	
	 <b>DLW21S_S/X</b> <small>p197</small> 0805(2012)/Imp.67-500Ω	 <b>DLW21S_HQ</b> <small>p197</small> 0805(2012)/Imp.67-120Ω	
	 <b>DLP31S</b> <small>p192</small> 1206(3216)/Imp.120-550Ω	 <b>DLP2ADA</b> <small>p194</small> 0804(2010)/Imp.35-90Ω	
	 <b>DLW31S</b> <small>p200</small> 1206(3216)/Imp.90-2200Ω		
	<b>Automotive Available</b>		
	 <b>DLW43S</b> <small>p201</small> 1812(4532)		
	<b>Array Type</b>		
	 <b>DLP1ND</b> <small>p193</small> 05025(1506)/Imp.35-90Ω		
	 <b>DLP2ADN</b> <small>p194</small> 0804(2010)/Imp.67-280Ω		
	 <b>DLP31D</b> <small>p196</small> 1206(3216)/Imp.90-440Ω		

Guide of Digits in this Chart:

●for BLM03P

0201(0603)/0.75-0.9A/Imp.22-33Ω

Size (inch)    Size (mm)    Rated Current    Impedance

●for NFA18S

0603(1608)/Cut off 50-480MHz

Size (inch)    Size (mm)    Cut-off Frequency

●for BNX022/023

10-15A/Range1MHz-2GHz

Rated Current    Effective Frequency Range

●for DLW5BS

2020(5050)/0.5-5A/Imp.190-3000Ω

Size (inch)    Size (mm)    Rated Current    Impedance

●for NFR21GD

0805(2012)/22-100Ω/Cap.10-100pF

Size (inch)    Size (mm)    Resistance    Capacitance

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Inductor Type		Series	Size Code in inch (in mm)	Impedance (Ω) at 100MHz			Effective Frequency Range (Applicable Frequency Ranges are only for reference.)								
				10	100	1000	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz	10GHz		
For General Band Noise	Universal Type [ Power Lines / Signal Lines ]	BLM02AX <small>p24</small>	01005 (0402)	10	70	120									
		BLM03AX <small>p30</small>	0201 (0603)	10	80	120	240	600	1000						
		BLM15AX <small>p40</small>	0402 (1005)	10	30	70	120	220	600	1000					
	Signal Lines Type	For General Signal Lines	BLM03AG <small>p32</small>	0201 (0603)	10	80	120	240	600	1000					
			BLM15AG <small>p42</small>	0402 (1005)	10	70	120	220	600	1000					
			BLM18A <small>p56</small>	0603 (1608)				220	470	600	1000				
			BLM21A <small>p68</small>	0805 (2012)				220	470	600	1000				
			BLM18T <small>p62</small>	0603 (1608)				120	220	600	1000				
		BLA2AA (4 circuits array) <small>p80</small>	0804 (2010)				120	220	600	1000					
		BLA31A (4 circuits array) <small>p83</small>	1206 (3216)	30	60	120	220	600	1000						
		For High Speed Signal Lines	BLM02BX <small>p26</small>	01005 (0402)				150							
			BLM03B <small>p34</small>	0201 (0603)	10	22	33	56	80	240	470				
			BLM15B <small>p44</small>	0402 (1005)	5	10	22	33	75	120	220	470	1000		
	BLM18B <small>p58</small>		0603 (1608)	5	10	22	47	60	75	140	220	420	600	1500	2200
	BLM21B <small>p70</small>		0805 (2012)	5			75	200	330	470	750	1500	2200	2700	
	For Digital Interface Lines	BLA2AB (4 circuits array) <small>p80</small>	0804 (2010)	10	22	47	75	120	220	470	1000				
		BLA31B (4 circuits array) <small>p83</small>	1206 (3216)							600	470	1000			
		BLM18R <small>p63</small>	0603 (1608)							600	470	1000			
		BLM21R <small>p73</small>	0805 (2012)							600	470	1000			
										120	220	470	1000		
Power Lines Type	BLM03PX* <small>p28</small>	0201 (0603)				33 (1.5A)	80 (1A)								
	BLM03PG <small>p27</small>	0201 (0603)				33 (0.75A)									
	BLM15P* <small>p36</small>	0402 (1005)	10 (1A)	30 (2.2A)	60 (1.7A/2.5A)	120 (1.3A/2A)	330 (1.2A)	600 (0.9A)							
	BLM18P* <small>p50</small>	0603 (1608)				33 (3A)	120 (2A)	220 (1.4A)	470 (1A)						
	BLM21P* <small>p66</small>	0805 (2012)				30 (4A)	220 (2A)								
	BLM31P* <small>p75</small>	1206 (3216)				22 (6A)	60 (3.5A)	120 (3A)	330 (1.5A)						
	BLM41P* <small>p77</small>	1806 (4516)				50 (3.5A)	390 (2A)								
	BLM18K* (Low DC Resistance Type) <small>p52</small>	0603 (1608)				33 (6A)	120 (3.5A)	600 (1.5A)							
	BLM18S* (Low DC Resistance Type) <small>p54</small>	0603 (1608)				75 (3.5A)	470 (2A)	1000 (1.5A)							
	BLE32P <small>p79</small>	1210 (3225)				30									
	For GHz Band Noise	Universal Type [ Power Lines / Signal Lines ]	BLM03E* <small>p87</small>	0201 (0603)				25 (0.6A)	50 (0.4A)						
			BLM15E* <small>p90</small>	0402 (1005)						220 (0.7A)					
BLM18EG* <small>p96</small>			0603 (1608)				120 (2A)	330 (0.5A)	470 (0.5A)	600 (0.5A)					
BLM18HE* <small>p92</small>			0603 (1608)							1000 (0.6A)	600 (0.8A)	1500 (0.5A)			
Signal Lines Type		BLM03HG <small>p85</small>	0201 (0603)							1000	600	1200			
		BLM03HD <small>p85</small>	0201 (0603)							600	330	470	1000		
		BLM03HB <small>p85</small>	0201 (0603)						190						
		BLM15HG <small>p88</small>	0402 (1005)							600	1000				
		BLM15HD <small>p88</small>	0402 (1005)							600	1000	1800			
		BLM15HB <small>p88</small>	0402 (1005)						120	220					
		BLM18HG <small>p92</small>	0603 (1608)							600	470	1000			
		BLM18HD <small>p92</small>	0603 (1608)							600	470	1000			
		BLM18HB <small>p92</small>	0603 (1608)						120	220	330				
		BLM18HK <small>p92</small>	0603 (1608)							330	470	1000			
		For High-GHz Band Noise	Signal Lines Type	BLM15GG <small>p91</small>	0402 (1005)						220	470			
				BLM15GA <small>p91</small>	0402 (1005)					75					
BLM18G <small>p98</small>	0603 (1608)										470				

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Capacitor Type	Series	Size Code in inch (in mm)	Capacitance (F)							Effective Frequency Range (Applicable Frequency Ranges are only for reference.)						
			10p	100p	1000p	10000p	0.1μ	1μ	10μ	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz	10GHz
Signal Lines Type	NFM15CC <sup>p134</sup>	0402 (1005)			2200	22000										
	NFM18CC <sup>p135</sup>	0603 (1608)		22	47	100	220	470	2200	1000	22000					
	NFM21CC <sup>p136</sup>	0805 (2012)		22	47	100	220	470	2200	1000	22000					
	NFM3DCC <sup>p137</sup>	1205 (3212)		22	47	100	220	470	2200	1000	22000					
	NFM41CC <sup>p138</sup>	1806 (4516)		22	47	100	220	470	2200	1000	22000					
	NFA31CC (4 circuits array) <sup>p139</sup>	1206 (3216)		22	47	100	220	470	2200	1000	22000					
Power Lines Type	NFM15PC <sup>p123</sup>	0402 (1005)						47000	0.22	1.0						
	NFM18PS <sup>p125</sup>	0603 (1608)						0.1	0.47	4.3						
	NFM18PC <sup>p126</sup>	0603 (1608)							1.0	0.47						
	NFM21PS <sup>p128</sup>	0805 (2012)							0.22	1.0	2.2					
	NFM21PC <sup>p129</sup>	0805 (2012)						0.1	0.47	2.2	4.7					
	NFM3DPC* <sup>p130</sup>	1205 (3212)				22000										
	NFM31PC <sup>p131</sup>	1206 (3216)									27					
	NFM31KC* <sup>p132</sup>	1206 (3216)				10000	22000	15000	0.1							
	NFM41PC <sup>p133</sup>	1806 (4516)							0.2	1.5						
Universal Type [Power Lines / Signal Lines]	NFE31PT <sup>p121</sup>	1206 (3216)		22	47	100	220	470	2200	1500						
	NFE61PT <sup>p122</sup>	2706 (6816)		33	68	180	680	4700								



LC(RC) Combined Type	Series	Size Code in inch (in mm)	Cut-off Frequency (MHz)							Effective Frequency Range (Applicable Frequency Ranges are only for reference.)								
			10	20	50	70	100	150	200	300	400	500	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz
Signal Lines Type	NFL15ST <sup>p140</sup>	0402 (1005)						150	200	300	500							
	NFL18ST <sup>p141</sup>	0603 (1608)			50	70	100		200	300	500							
	NFL18SP <sup>p143</sup>	0603 (1608)						150	200	300	500							
	NFL21SP <sup>p144</sup>	0805 (2012)	10	20	50	70	100	150	200	300	400	500						
	NFA18SL (4 circuits array) <sup>p145</sup>	0603 (1608)			50		130	180	220	300	350	480						
	NFA18SD (4 circuits array) <sup>p147</sup>	0603 (1608)							200									
	NFA21SL (4 circuits array) <sup>p148</sup>	0805 (2012)			50	80			200	280	310	300	330					
	NFW31SP <sup>p150</sup>	1206 (3216)	10	20	50	100	150	200	300	400	500							
	NFR21GD <sup>p152</sup>	0805 (2012)																
	NFA31GD (4 circuits array) <sup>p153</sup>	1206 (3216)																

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# DL

## Common Mode Choke Coils

Signal Lines Type	Series	Size Code in inch (in mm)	Common Mode Impedance (Ω) at 100MHz			Effective Frequency Range (Applicable Frequency Ranges are only for reference.)					
			100	500	1000	100kHz	1MHz	10MHz	100MHz	1GHz	10GHz
						100kHz	1MHz	10MHz	100MHz	1GHz	10GHz
For Audio Lines	DLM11G <sup>p184</sup>	0504 (1210)	600			[Frequency Range]					
	DLM11S <sup>p185</sup>	0504 (1210)	45	90	[Frequency Range]						
	DLP0QSN <sup>p186</sup>	025020 (0605)	60			[Frequency Range]					
	DLP0QSA <sup>p186</sup>	025020 (0605)	15 7	35	[Frequency Range]						
	DLP0NSC <sup>p187</sup>	03025 (0806)	28			[Frequency Range]					
	DLP0NSN <sup>p187</sup>	03025 (0806)	35 67	90 120	[Frequency Range]						
	DLP0NSA <sup>p187</sup>	03025 (0806)	15 7	[Frequency Range]							
	DLP11SN <sup>p189</sup>	0504 (1210)	67 90	120 160	240 200	280 330	[Frequency Range]				
	DLP11SA <sup>p189</sup>	0504 (1210)	35 67	90	[Frequency Range]						
	DLP11RN <sup>p190</sup>	0504 (1210)	45			[Frequency Range]					
	DLP11RB <sup>p190</sup>	0504 (1210)	15	40	[Frequency Range]						
	DLP11TB <sup>p191</sup>	0504 (1210)	80			[Frequency Range]					
	DLP31S <sup>p192</sup>	1206 (3216)	120	220	550				[Frequency Range]		
	DLP1NDN (2 circuits array) <sup>p193</sup>	05025 (1506)	35 67	90	[Frequency Range]						
	DLP2ADA (2 circuits array) <sup>p194</sup>	0804 (2010)	35 67	90	[Frequency Range]						
	DLP2ADN (2 circuits array) <sup>p194</sup>	0804 (2010)	90 67	120 160	240 200	280	[Frequency Range]				
	DLP31DN (2 circuits array) <sup>p196</sup>	1206 (3216)	90	130	200	320	440	[Frequency Range]			
	DLW21S <sup>p197</sup>	0805 (2012)	90 67	120 180	260	370	490 500	[Frequency Range]			
	DLW21H <sup>p199</sup>	0805 (2012)	90 67	120 180	[Frequency Range]						
	DLW31SN <sup>p200</sup>	1206 (3216)	90	160	260	600	1000	2200	[Frequency Range]		
DLW43SH <sup>p201</sup>	1812 (4532)	[Frequency Range]									
Universal Type [ Power Lines / Signal Lines ]	DLW5AH/DLW5BS* <sup>p177</sup>	2014 (5036) / 2020 (5050)	190	350	500	600	800	1000	1500	4000	[Frequency Range]
	DLW5AT*/DLW5BT* <sup>p179</sup>	2014 (5036) / 2020 (5050)	50 100	110 150	230 250	330 400	500	1000	1400	2700	[Frequency Range]

# PL

## Large Current Common Mode Choke Coil for Automotive Available

Large Current Type for Automotive Available	Series	Size Code in inch (in mm)	Common Mode Impedance (Ω) at 10MHz			Effective Frequency Range (Applicable Frequency Ranges are only for reference.)					
			100	500	1000	100kHz	1MHz	10MHz	100MHz	1GHz	10GHz
						100kHz	1MHz	10MHz	100MHz	1GHz	10GHz
	PLT10HH* <sup>p202</sup>	-	45 100	400 500	900 1000	[Frequency Range]					

# BNX

## Block EMIFIL®

Power Lines Type	Series	Height (mm)	Rated Voltage (Vdc)	Rated Current (A)	Effective Frequency Range (Applicable Frequency Ranges are only for reference.)						
					10kHz	100kHz	1MHz	10MHz	100MHz	1GHz	10GHz
SMD Type	BNX022* <sup>p221</sup>	3.1	50	10	[Frequency Range]						
	BNX023* <sup>p221</sup>	3.1	100	15	[Frequency Range]						
	BNX024* <sup>p221</sup>	3.5	50	15	[Frequency Range]						
	BNX025* <sup>p221</sup>	3.5	25	15	[Frequency Range]						
	Lead Type	BNX002 <sup>p223</sup>	13 max.	50	10	[Frequency Range]					
		BNX003 <sup>p223</sup>	13 max.	150	10	[Frequency Range]					
		BNX005 <sup>p223</sup>	13.5 max.	50	15	[Frequency Range]					
		BNX012* <sup>p224</sup>	8.5 max.	50	15	[Frequency Range]					
	BNX016* <sup>p224</sup>	8.5 max.	25	15	[Frequency Range]						

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# BL□

## Chip Ferrite Bead

Series Introduction .....	14
Part Numbering .....	16
Series Line Up .....	18
Product Detail .....	24
⚠Caution/Notice .....	99
Soldering and Mounting .....	100
Packaging .....	104
Design Kits .....	105

Chip Ferrite Bead

Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

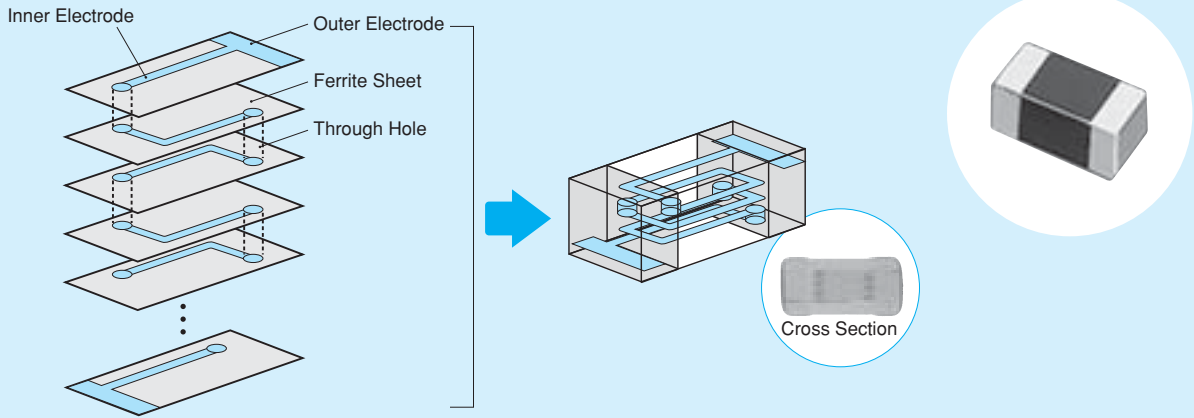
Microwave Absorber

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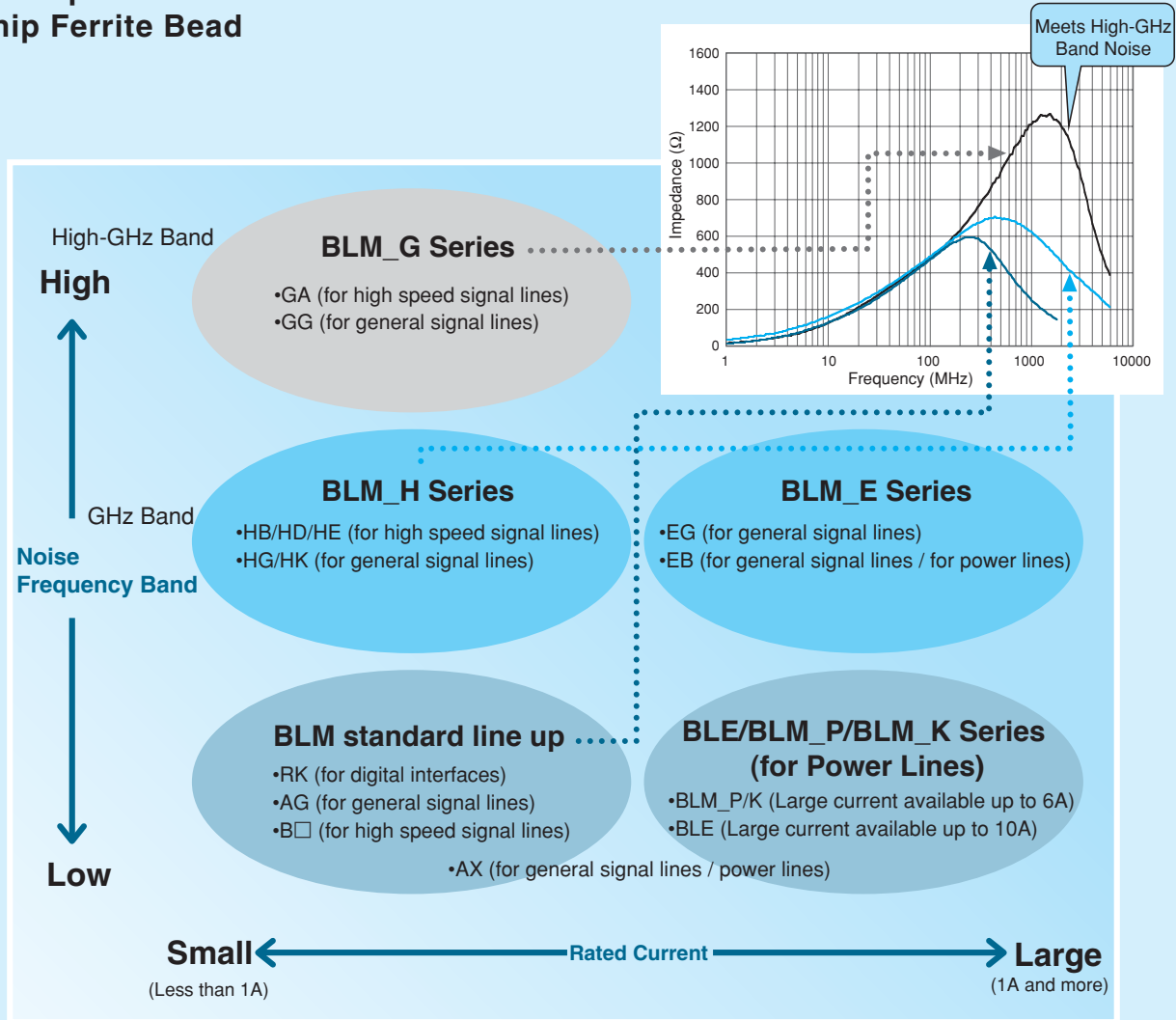


# BL Series Introduction

## ● Example of Chip Ferrite Bead BLM Series Structure



## ● Line Up Classification of Chip Ferrite Bead



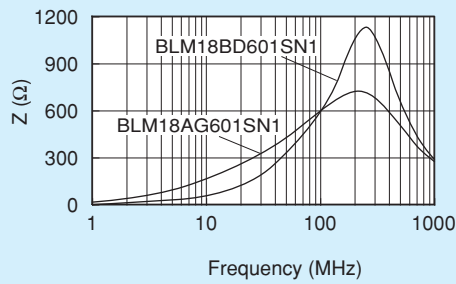
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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Chip Ferrite Bead  
Chip EMIFIL®  
Chip Common Mode Choke Coil  
Block Type EMIFIL®  
Microwave Absorber

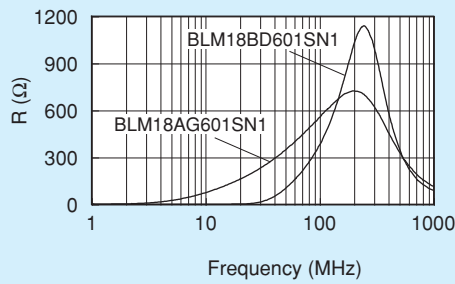
### ●Difference between BLM A type and B type (HG type vs HD/HB/HE type)

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

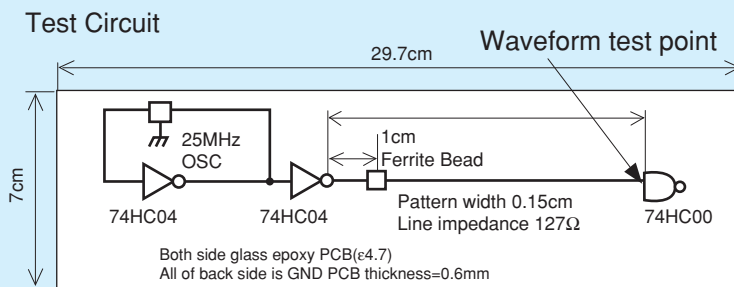
#### ■Comparison of Impedance Curve



#### ■Comparison of Resistance Element

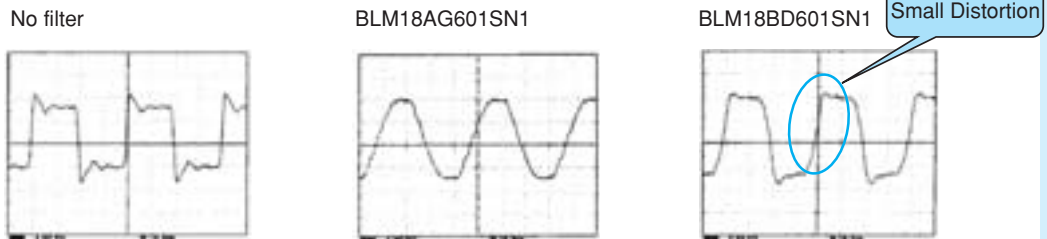


#### ■Comparison of Test Effect (25MHz)

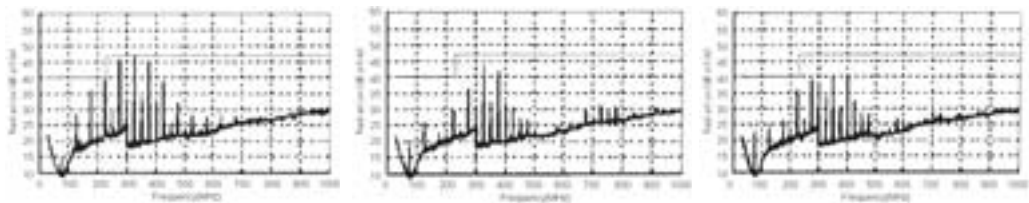


BLM\_B Series has less damage to high speed signal waveform.

Waveform



Spectrum



Spectrum has been reduced from low frequency range.

Noise frequency has been reduced without reducing signals of low frequency.

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# BL   Chip Ferrite Bead Part Numbering

(Part Number) **BL M 18 AG 102 S N 1 D**  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

## ① Product ID

Product ID	
BL	Chip Ferrite Beads

## ② Type

Code	Type
A	Array Type
E	DC Bias Characteristics Improved Type
M	Ferrite Bead Single Type

## ③ Dimensions (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
32	3.2×2.5mm	1210
41	4.5×1.6mm	1806

## ④ Characteristics/Applications

Code *1	Characteristics/Applications	Series
AG	For General Use	BLM03/15/18/21, BLA2A/31
AX		BLM02/03/15
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
BX		BLM02/15
PD		BLM15
PG	For Power Lines	BLM03/15/18/21/31/41
PN		BLE32
PX		BLM03/15
KG	For Power Lines (Low DC Resistance Type)	BLM18
SG		
RK	For Digital Interface	BLM18/21
HG	For GHz Band General Use	BLM03/15/18
EB	For GHz Band High-speed Signal Lines (Low Direct Current Type)	BLM03
EG	For GHz Band General Use (Low DC Resistance Type)	BLM15/18
HB	For GHz Band High-speed Signal Lines	BLM03/15/18
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.

## ⑤ Impedance

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

## ⑥ Electrode

Expressed by a letter.

Ex.)	Code	Electrode
	S/T	Sn Plating
	A	Au Plating

## ⑦ Category

Code	Category
N	Standard Type

## ⑧ Number of Circuits

Code	Number of Circuits
1	1 Circuit
4	4 Circuits

Continued on the following page.

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## ⑨ Packaging

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

\*1 BLM21BD222SN1/BLM21BD272SN1 only.

\*2 Except for BLM21BD222SN1/BLM21BD272SN1

\*3 Except for BLM18T



# BL   Chip Ferrite Bead Series Line Up

Size Code (in inch (in mm))	Thickness (mm)	Type	Part Number	Impedance		Rated Current	New	Kit	≥1A ≥3A ≥10A	GHz Hi-GHz	Flow	ReFlow	
				at 100MHz/20°C	at 1GHz/20°C								
01005 (0402)	0.2	Universal Type [Power lines/Signal lines]	p24 BLM02AX100SN1	10ohm±5ohm	-	750mA		Kit				ReFlow	
	0.2		BLM02AX700SN1	70ohm±25%	-	300mA		Kit				ReFlow	
	0.2		BLM02AX121SN1	120ohm±25%	-	250mA		Kit				ReFlow	
	0.2	For High Speed Signal Lines	p26 BLM02BX151SN1	150ohm±25%	-	200mA	New					ReFlow	
	0.3	For General Signal Lines	p32 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]	p30 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		
0201 (0603)	0.3	For High Speed Signal Lines (Sharp Impedance Curve)	p34 BLM03BD750SN1	75ohm±25%	-	300mA		Kit				ReFlow	
	0.3		BLM03BD121SN1	120ohm±25%	-	250mA		Kit				ReFlow	
	0.3		BLM03BD241SN1	240ohm±25%	-	200mA		Kit				ReFlow	
	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		Kit				ReFlow	
	0.3		BLM03BC560SN1	56ohm±25%	-	100mA		Kit				ReFlow	
	0.3		BLM03BC800SN1	80ohm±25%	-	100mA		Kit				ReFlow	
	0.3		For Power Lines	p27 BLM03PG220SN1	22ohm±25%	-	900mA		Kit				ReFlow
	0.3	BLM03PG330SN1		33ohm±25%	-	750mA		Kit				ReFlow	
	0.3	p28 BLM03PX220SN1		22ohm±25%	-	1800mA		Kit	≥1A			ReFlow	
	0.3	BLM03PX330SN1		33ohm±25%	-	1500mA		Kit	≥1A			ReFlow	
	0.3	BLM03PX800SN1		80ohm±25%	-	1000mA		Kit	≥1A			ReFlow	
	0402 (1005)	0.5	For General Signal Lines	p42 BLM15AG100SN1	10ohm(Typ.)	-	1000mA		Kit	≥1A			ReFlow
		0.5		BLM15AG700SN1	70ohm(Typ.)	-	600mA		Kit				ReFlow
		0.5		BLM15AG121SN1	120ohm±25%	-	550mA		Kit				ReFlow
0.5		For GHz Band Noise	For General Signal Lines	BLM15AG221SN1	220ohm±25%	-	450mA		Kit			ReFlow	
0.5				BLM15AG601SN1	600ohm±25%	-	300mA		Kit			ReFlow	
0.5				BLM15AG102SN1	1000ohm±25%	-	300mA		Kit			ReFlow	
0.5			For High Speed Signal Lines	p85 BLM15AX100SN1	10ohm±5ohm	-	1740mA		Kit	≥1A			ReFlow
0.5				BLM15AX300SN1	30ohm±25%	-	1100mA		Kit	≥1A			ReFlow
0.5				BLM15AX700SN1	70ohm±25%	-	780mA		Kit				ReFlow
0.5				BLM15AX121SN1	120ohm±25%	-	700mA		Kit				ReFlow
0.5	Universal Type [Power lines/Signal lines]	BLM15AX221SN1	220ohm±25%	-	600mA		Kit				ReFlow		
0.5		BLM15AX601SN1	600ohm±25%	-	500mA		Kit				ReFlow		
0.5	BLM15AX102SN1	1000ohm±25%	-	350mA		Kit				ReFlow			

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Chip Ferrite Bead  
Chip EMIFIL®  
Chip Common Mode Choke Coil  
Block Type EMIFIL®  
Microwave Absorber

Size Code (in inch (in mm))	Thickness (mm)	Type	Part Number	Impedance		Rated Current	New	Kit	≥1A ≥3A ≥10A	GHz Hi-GHz	Flow	RefFlow	
				at 100MHz/20°C	at 1GHz/20°C								
0402 (1005)	0.5	For High Speed Signal Lines (Sharp Impedance Curve)	p44	BLM15BX750SN1	75ohm±25%	-	600mA	Kit				RefFlow	
	0.5			BLM15BX121SN1	120ohm±25%	-	600mA	Kit				RefFlow	
	0.5			BLM15BX221SN1	220ohm±25%	-	450mA	Kit				RefFlow	
	0.5			BLM15BX471SN1	470ohm±25%	-	350mA	Kit				RefFlow	
	0.5			BLM15BX601SN1	600ohm±25%	-	350mA	Kit				RefFlow	
	0.5			BLM15BX102SN1	1000ohm±25%	-	300mA	Kit				RefFlow	
	0.5			BLM15BX182SN1	1800ohm±25%	-	250mA	Kit				RefFlow	
	0.5			p46	BLM15BD750SN1	75ohm±25%	-	300mA	Kit				RefFlow
	0.5				BLM15BD121SN1	120ohm±25%	-	300mA	Kit				RefFlow
	0.5				BLM15BD221SN1	220ohm±25%	-	300mA	Kit				RefFlow
	0.5				BLM15BD471SN1	470ohm±25%	-	200mA	Kit				RefFlow
	0.5				BLM15BD601SN1	600ohm±25%	-	200mA	Kit				RefFlow
	0.5				BLM15BD102SN1	1000ohm±25%	-	200mA	Kit				RefFlow
	0.5				BLM15BD182SN1	1800ohm±25%	-	100mA	Kit				RefFlow
	0.5				BLM15BB050SN1	5ohm±25%	-	500mA	Kit				RefFlow
	0.5				BLM15BB100SN1	10ohm±25%	-	300mA	Kit				RefFlow
	0.5				BLM15BB220SN1	22ohm±25%	-	300mA	Kit				RefFlow
	0.5			BLM15BB470SN1	47ohm±25%	-	300mA	Kit				RefFlow	
	0.5			BLM15BB750SN1	75ohm±25%	-	300mA	Kit				RefFlow	
	0.5			BLM15BB121SN1	120ohm±25%	-	300mA	Kit				RefFlow	
	0.5		BLM15BB221SN1	220ohm±25%	-	200mA	Kit				RefFlow		
	0.5		BLM15BC121SN1	120ohm±25%	-	350mA	Kit				RefFlow		
	0.5		BLM15BC241SN1	240ohm±25%	-	250mA	Kit				RefFlow		
	0.5		BLM15BA050SN1	5ohm±25%	-	300mA	Kit				RefFlow		
	0.5		BLM15BA100SN1	10ohm±25%	-	300mA	Kit				RefFlow		
	0.5		BLM15BA220SN1	22ohm±25%	-	300mA	Kit				RefFlow		
	0.5		BLM15BA330SN1	33ohm±25%	-	300mA	Kit				RefFlow		
	0.5		BLM15BA470SN1	47ohm±25%	-	200mA	Kit				RefFlow		
	0.5		BLM15BA750SN1	75ohm±25%	-	200mA	Kit				RefFlow		
	0.5		For Power Lines	p36	BLM15PX330SN1	33ohm±25%	-	3000mA	Kit	≥3A			RefFlow
	0.5				BLM15PX600SN1	60ohm±25%	-	2500mA	Kit	≥1A			RefFlow
	0.5				BLM15PX800SN1	80ohm±25%	-	2300mA	Kit	≥1A			RefFlow
	0.5				BLM15PX121SN1	120ohm±25%	-	2000mA	Kit	≥1A			RefFlow
	0.5				BLM15PX181SN1	180ohm±25%	-	1500mA	Kit	≥1A			RefFlow
	0.5				BLM15PX221SN1	220ohm±25%	-	1400mA	Kit	≥1A			RefFlow
	0.5				BLM15PX331SN1	330ohm±25%	-	1200mA	Kit	≥1A			RefFlow
	0.5				BLM15PX471SN1	470ohm±25%	-	1000mA	Kit	≥1A			RefFlow
	0.5			p38	BLM15PX601SN1	600ohm±25%	-	900mA	Kit				RefFlow
	0.5				BLM15PG100SN1	10ohm(Typ.)	-	1000mA	Kit	≥1A			RefFlow
	0.5				BLM15PD300SN1	30ohm±25%	-	2200mA	Kit	≥1A			RefFlow
0.5	BLM15PD600SN1	60ohm±25%			-	1700mA	Kit	≥1A			RefFlow		
0.5	BLM15PD800SN1	80ohm±25%			-	1500mA	Kit	≥1A			RefFlow		
0.5	BLM15PD121SN1	120ohm±25%			-	1300mA	Kit	≥1A			RefFlow		
0.5	For GHz Band Noise	p88	BLM15HG601SN1	600ohm±25%	1000ohm±40%	300mA	Kit		GHz		RefFlow		
0.5			BLM15HG102SN1	1000ohm±25%	1400ohm±40%	250mA	Kit			GHz		RefFlow	
0.5		For High Speed Signal Lines (Sharp Impedance Curve)	p88	BLM15HD601SN1	600ohm±25%	1400ohm±40%	300mA	Kit		GHz		RefFlow	
0.5				BLM15HD102SN1	1000ohm±25%	2000ohm±40%	250mA	Kit			GHz		RefFlow
0.5				BLM15HD182SN1	1800ohm±25%	2700ohm±40%	200mA	Kit			GHz		RefFlow
0.5				BLM15HB121SN1	120ohm±25%	500ohm±40%	300mA	Kit			GHz		RefFlow
0.5			BLM15HB221SN1	220ohm±25%	900ohm±40%	250mA	Kit			GHz		RefFlow	
0.5			Universal Type [Power Lines/Signal Lines]	p90	BLM15EG121SN1	120ohm±25%	145ohm(Typ.)	1500mA	Kit	≥1A	GHz		RefFlow
0.5		BLM15EG221SN1			220ohm±25%	270ohm(Typ.)	700mA	Kit			GHz		RefFlow
0.5		For High-GHz Band Noise	p91	BLM15GG221SN1	220ohm±25%	600ohm±40%	300mA	Kit		Hi-GHz		RefFlow	
0.5	BLM15GG471SN1			470ohm±25%	1200ohm±40%	200mA	Kit			Hi-GHz		RefFlow	
0.5	BLM15GA750SN1			75ohm±25%	1000ohm±40%	200mA	Kit			Hi-GHz		RefFlow	

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Size Code (in inch in mm)	Thickness (mm)	Type	Part Number	Impedance		Rated Current	New	Kit	≥1A ≥3A ≥10A	GHz	Flow	RefFlow	
				at 100MHz/20°C	at 1GHz/20°C								
0603 (1608)	0.8	For General Signal Lines	p56 BLM18AG121SN1	120ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8		p56 BLM18AG151SN1	150ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8		p56 BLM18AG221SN1	220ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8		p56 BLM18AG331SN1	330ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8		p56 BLM18AG471SN1	470ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8		p56 BLM18AG601SN1	600ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8		p56 BLM18AG102SN1	1000ohm±25%	-	400mA		Kit			Flow	RefFlow	
	0.6		p62	p62 BLM18TG121TN1	120ohm±25%	-	200mA					Flow	RefFlow
	0.6			p62 BLM18TG221TN1	220ohm±25%	-	200mA					Flow	RefFlow
	0.6			p62 BLM18TG601TN1	600ohm±25%	-	200mA					Flow	RefFlow
	0.6			p62 BLM18TG102TN1	1000ohm±25%	-	100mA					Flow	RefFlow
	0.8		For High Speed Signal Lines (Sharp Impedance Curve)	p58 BLM18BD470SN1	47ohm±25%	-	500mA		Kit			Flow	RefFlow
	0.8			p58 BLM18BD121SN1	120ohm±25%	-	200mA		Kit			Flow	RefFlow
	0.8			p58 BLM18BD151SN1	150ohm±25%	-	200mA		Kit			Flow	RefFlow
	0.8			p58 BLM18BD221SN1	220ohm±25%	-	200mA		Kit			Flow	RefFlow
	0.8	p58 BLM18BD331SN1		330ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD421SN1		420ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD471SN1		470ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD601SN1		600ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD102SN1		1000ohm±25%	-	100mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD152SN1		1500ohm±25%	-	50mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD182SN1		1800ohm±25%	-	50mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD222SN1		2200ohm±25%	-	50mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BD252SN1		2500ohm±25%	-	50mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB050SN1		5ohm±25%	-	700mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB100SN1		10ohm±25%	-	700mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB220SN1		22ohm±25%	-	600mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB470SN1		47ohm±25%	-	550mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB600SN1		60ohm±25%	-	550mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB750SN1		75ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB121SN1		120ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB141SN1		140ohm±25%	-	450mA					Flow	RefFlow	
	0.8	p58 BLM18BB151SN1		150ohm±25%	-	450mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB221SN1		220ohm±25%	-	450mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB331SN1		330ohm±25%	-	400mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BB471SN1		470ohm±25%	-	300mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BA050SN1		5ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BA100SN1		10ohm±25%	-	500mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BA220SN1		22ohm±25%	-	500mA					Flow	RefFlow	
	0.8	p58 BLM18BA470SN1		47ohm±25%	-	300mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BA750SN1		75ohm±25%	-	300mA		Kit			Flow	RefFlow	
	0.8	p58 BLM18BA121SN1	120ohm±25%	-	200mA		Kit			Flow	RefFlow		
	0.8	For Digital Interface Lines	p63 BLM18RK121SN1	120ohm±25%	-	200mA					Flow	RefFlow	
	0.8		p63 BLM18RK221SN1	220ohm±25%	-	200mA					Flow	RefFlow	
	0.8		p63 BLM18RK471SN1	470ohm±25%	-	200mA					Flow	RefFlow	
0.8	p63 BLM18RK601SN1		600ohm±25%	-	200mA					Flow	RefFlow		
0.8	p63 BLM18RK102SN1		1000ohm±25%	-	200mA					Flow	RefFlow		

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Chip Ferrite Bead  
 Chip EMIFIL®  
 Chip Common Mode Choke Coil  
 Block Type EMIFIL®  
 Microwave Absorber

Size Code (in mm)	Thickness (mm)	Type	Part Number	Impedance		Rated Current	New	Kit	≥1A ≥3A ≥10A	GHz Hz	F <sub>low</sub>	R <sub>eflow</sub>	
				at 100MHz/20°C	at 1GHz/20°C								
6063 (1608)	0.8	Standard Type	p50 BLM18PG300SN1	30ohm(Typ.)	-	1000mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p50 BLM18PG330SN1	33ohm±25%	-	3000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p50 BLM18PG600SN1	60ohm(Typ.)	-	500mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p50 BLM18PG121SN1	120ohm±25%	-	2000mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p50 BLM18PG181SN1	180ohm±25%	-	1500mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p50 BLM18PG221SN1	220ohm±25%	-	1400mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p50 BLM18PG331SN1	330ohm±25%	-	1200mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p50 BLM18PG471SN1	470ohm±25%	-	1000mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.6	For Power Lines	p52 BLM18KG260TN1	26ohm±25%	-	6000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.6		p52 BLM18KG300TN1	30ohm±25%	-	5000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.6		p52 BLM18KG700TN1	70ohm±25%	-	3500mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.6		p52 BLM18KG101TN1	100ohm±25%	-	3000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.6		p52 BLM18KG121TN1	120ohm±25%	-	3000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p52 BLM18KG221SN1	220ohm±25%	-	2200mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p52 BLM18KG331SN1	330ohm±25%	-	1700mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p52 BLM18KG471SN1	470ohm±25%	-	1500mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8	Low DC Resistance Type	p54 BLM18KG601SN1	600ohm±25%	-	1300mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.5		p54 BLM18SG260TN1	26ohm±25%	-	6000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.5		p54 BLM18SG700TN1	70ohm±25%	-	4000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.5		p54 BLM18SG121TN1	120ohm±25%	-	3000mA		Kit	≥3A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.5		p54 BLM18SG221TN1	220ohm±25%	-	2500mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.5		p54 BLM18SG331TN1	330ohm±25%	-	1500mA		Kit	≥1A		F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		For General Signal Lines	p92 BLM18HG471SN1	470ohm±25%	600ohm(Typ.)	200mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>
	0.8			p92 BLM18HG601SN1	600ohm±25%	700ohm(Typ.)	200mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>
	0.8	p92 BLM18HG102SN1		1000ohm±25%	1000ohm(Typ.)	100mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8	p92 BLM18HE601SN1		600ohm±25%	600ohm(Typ.)	800mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8	For High Speed Signal Lines (Sharp Impedance Curve)	p92 BLM18HE102SN1	1000ohm±25%	1000ohm(Typ.)	600mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HE152SN1	1500ohm±25%	1500ohm(Typ.)	500mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HD471SN1	470ohm±25%	1000ohm(Typ.)	100mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HD601SN1	600ohm±25%	1200ohm(Typ.)	100mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HD102SN1	1000ohm±25%	1700ohm(Typ.)	50mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HB121SN1	120ohm±25%	500ohm±40%	200mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HB221SN1	220ohm±25%	1100ohm±40%	100mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HB331SN1	330ohm±25%	1600ohm±40%	50mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8	For GHz Band Noise	p92 BLM18HK331SN1	330ohm±25%	400ohm±40%	200mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HK471SN1	470ohm±25%	600ohm±40%	200mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HK601SN1	600ohm±25%	700ohm±40%	100mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p92 BLM18HK102SN1	1000ohm±25%	1200ohm±40%	50mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.5	Universal Type [Power lines/ Signal lines]	p96 BLM18EG101TN1	100ohm±25%	140ohm(Typ.)	2000mA		Kit	≥1A	GHz	F <sub>low</sub>	R <sub>eflow</sub>	
	0.8		p96 BLM18EG121SN1	120ohm±25%	145ohm(Typ.)	2000mA		Kit	≥1A	GHz	F <sub>low</sub>	R <sub>eflow</sub>	
0.8	p96 BLM18EG221SN1		220ohm±25%	260ohm(Typ.)	2000mA		Kit	≥1A	GHz	F <sub>low</sub>	R <sub>eflow</sub>		
0.5	p96 BLM18EG221TN1		220ohm±25%	300ohm(Typ.)	1000mA		Kit	≥1A	GHz	F <sub>low</sub>	R <sub>eflow</sub>		
0.5	p96 BLM18EG331TN1		330ohm±25%	450ohm(Typ.)	500mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>		
0.5	p96 BLM18EG391TN1		390ohm±25%	520ohm(Typ.)	500mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>		
0.8	p96 BLM18EG471SN1		470ohm±25%	550ohm(Typ.)	500mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>		
0.8	p96 BLM18EG601SN1		600ohm±25%	700ohm(Typ.)	500mA		Kit		GHz	F <sub>low</sub>	R <sub>eflow</sub>		
0.8	For High-GHz Band Noise	p98 BLM18GG471SN1	470ohm±25%	1800ohm±30%	200mA		Kit		Hz		R <sub>eflow</sub>		
0805 (2012)	0.85	For General Signal Lines	p68 BLM21AG121SN1	120ohm±25%	-	800mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	
	0.85		p68 BLM21AG151SN1	150ohm±25%	-	800mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	
	0.85		p68 BLM21AG221SN1	220ohm±25%	-	800mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	
	0.85		p68 BLM21AG331SN1	330ohm±25%	-	700mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	
	0.85		p68 BLM21AG471SN1	470ohm±25%	-	700mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	
	0.85		p68 BLM21AG601SN1	600ohm±25%	-	600mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	
	0.85		p68 BLM21AG102SN1	1000ohm±25%	-	500mA		Kit			F <sub>low</sub>	R <sub>eflow</sub>	

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BL Chip Ferrite Bead Series Line Up

Size Code (in mm)	Thickness (mm)	Type	Part Number	Impedance		Rated Current	New	Kit	$\geq 1A$ $\geq 3A$ $\geq 10A$	GHz	Flow	RefFlow	
				at 100MHz/20°C	at 1GHz/20°C								
0805 (2012)	0.85	For High Speed Signal Lines (Sharp Impedance Curve)	p70 BLM21BD121SN1	120ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD151SN1	150ohm±25%	-	200mA					Flow	RefFlow	
	0.85		BLM21BD221SN1	220ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD331SN1	330ohm±25%	-	200mA					Flow	RefFlow	
	0.85		BLM21BD421SN1	420ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD471SN1	470ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD601SN1	600ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD751SN1	750ohm±25%	-	200mA					Flow	RefFlow	
	0.85		BLM21BD102SN1	1000ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD152SN1	1500ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD182SN1	1800ohm±25%	-	200mA		Kit			Flow	RefFlow	
	0.85		BLM21BD222TN1	2200ohm±25%	-	200mA		Kit			Flow	RefFlow	
	1.25		BLM21BD222SN1	2250ohm(Typ.)	-	200mA		Kit				Flow	RefFlow
	1.25		BLM21BD272SN1	2700ohm±25%	-	200mA		Kit				Flow	RefFlow
	0.85		BLM21BB050SN1	5ohm±25%	-	1000mA		Kit				Flow	RefFlow
	0.85		BLM21BB600SN1	60ohm±25%	-	800mA		Kit				Flow	RefFlow
	0.85		BLM21BB750SN1	75ohm±25%	-	700mA		Kit				Flow	RefFlow
	0.85		BLM21BB121SN1	120ohm±25%	-	600mA		Kit				Flow	RefFlow
	0.85		BLM21BB151SN1	150ohm±25%	-	600mA						Flow	RefFlow
	0.85		BLM21BB201SN1	200ohm±25%	-	500mA						Flow	RefFlow
0.85	BLM21BB221SN1	220ohm±25%	-	500mA		Kit				Flow	RefFlow		
0.85	BLM21BB331SN1	330ohm±25%	-	400mA		Kit				Flow	RefFlow		
0.85	BLM21BB471SN1	470ohm±25%	-	400mA		Kit				Flow	RefFlow		
0.85	For Digital Interface Lines	p73 BLM21RK121SN1	120ohm±25%	-	200mA					Flow	RefFlow		
0.85		BLM21RK221SN1	220ohm±25%	-	200mA					Flow	RefFlow		
0.85		BLM21RK471SN1	470ohm±25%	-	200mA					Flow	RefFlow		
0.85		BLM21RK601SN1	600ohm±25%	-	200mA					Flow	RefFlow		
0.85		BLM21RK102SN1	1000ohm±25%	-	200mA					Flow	RefFlow		
0.85	For Power Lines	p66 BLM21PG220SN1	22ohm±25%	-	6000mA		Kit	$\geq 3A$		Flow	RefFlow		
0.85		BLM21PG300SN1	30ohm(Typ.)	-	4000mA		Kit	$\geq 3A$		Flow	RefFlow		
0.85		BLM21PG600SN1	60ohm±25%	-	3500mA		Kit	$\geq 3A$		Flow	RefFlow		
0.85		BLM21PG121SN1	120ohm±25%	-	3000mA		Kit	$\geq 3A$		Flow	RefFlow		
0.85		BLM21PG221SN1	220ohm±25%	-	2000mA		Kit	$\geq 1A$		Flow	RefFlow		
0.85		BLM21PG331SN1	330ohm±25%	-	1500mA		Kit	$\geq 1A$		Flow	RefFlow		
1.1	For Power Lines	p75 BLM31PG330SN1	33ohm±25%	-	6000mA		Kit	$\geq 3A$		Flow	RefFlow		
1.1		BLM31PG500SN1	50ohm(Typ.)	-	3500mA		Kit	$\geq 3A$		Flow	RefFlow		
1.1		BLM31PG121SN1	120ohm±25%	-	3500mA		Kit	$\geq 3A$		Flow	RefFlow		
1.1		BLM31PG391SN1	390ohm±25%	-	2000mA		Kit	$\geq 1A$		Flow	RefFlow		
1.1		BLM31PG601SN1	600ohm±25%	-	1500mA		Kit	$\geq 1A$		Flow	RefFlow		
1.6	For Power Lines	p77 BLM41PG600SN1	60ohm(Typ.)	-	6000mA		Kit	$\geq 3A$		Flow	RefFlow		
1.6		BLM41PG750SN1	75ohm(Typ.)	-	3500mA		Kit	$\geq 3A$		Flow	RefFlow		
1.6		BLM41PG181SN1	180ohm±25%	-	3500mA		Kit	$\geq 3A$		Flow	RefFlow		
1.6		BLM41PG471SN1	470ohm±25%	-	2000mA		Kit	$\geq 1A$		Flow	RefFlow		
1.6		BLM41PG102SN1	1000ohm±25%	-	1500mA		Kit	$\geq 1A$		Flow	RefFlow		
1210 (3225)	0.2	For Power Lines	p79 BLE32PN300SN1	30ohm±10ohm	-	10000mA	New	$\geq 10A$		Flow	RefFlow		
0804 (2010)	0.5	For General Signal Lines	p80 BLA2AAG121SN4	120ohm±25%	-	100mA					RefFlow		
	0.5		BLA2AAG221SN4	220ohm±25%	-	50mA					RefFlow		
	0.5		BLA2AAG601SN4	600ohm±25%	-	50mA					RefFlow		
	0.5		BLA2AAG102SN4	1000ohm±25%	-	50mA					RefFlow		
	0.5	For High Speed Signal Lines	p80 BLA2ABD750SN4	75ohm±25%	-	200mA					RefFlow		
	0.5		BLA2ABD121SN4	120ohm±25%	-	200mA					RefFlow		
	0.5		BLA2ABD221SN4	220ohm±25%	-	100mA					RefFlow		
	0.5		BLA2ABD471SN4	470ohm±25%	-	100mA					RefFlow		
	0.5		BLA2ABD601SN4	600ohm±25%	-	100mA					RefFlow		
	0.5		BLA2ABD102SN4	1000ohm±25%	-	50mA					RefFlow		
	0.5		BLA2ABB100SN4	10ohm±25%	-	200mA					RefFlow		
	0.5		BLA2ABB220SN4	22ohm±25%	-	200mA					RefFlow		
	0.5		BLA2ABB470SN4	47ohm±25%	-	200mA					RefFlow		
	0.5		BLA2ABB121SN4	120ohm±25%	-	50mA					RefFlow		
0.5	BLA2ABB221SN4	220ohm±25%	-	50mA					RefFlow				

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Size Code in inch (in mm)	Thickness (mm)	Type	Part Number	Impedance		Rated Current	New	Kit	$\geq 1A$ $\geq 3A$ $\geq 10A$	$\geq 1GHz$ Hi-GHz	Flow	R <sub>eff</sub> Flow
				at 100MHz/20°C	at 1GHz/20°C							
1206 (3216)	0.8	For General Signal Lines	BLA31AG300SN4	30ohm±25%	-	200mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31AG600SN4	60ohm±25%	-	200mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31AG121SN4	120ohm±25%	-	150mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31AG221SN4	220ohm±25%	-	150mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31AG601SN4	600ohm±25%	-	100mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31AG102SN4	1000ohm±25%	-	50mA					Flow	R <sub>eff</sub> Flow
	0.8	For High Speed Signal Lines	BLA31BD121SN4	120ohm±25%	-	150mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31BD221SN4	220ohm±25%	-	150mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31BD471SN4	470ohm±25%	-	100mA					Flow	R <sub>eff</sub> Flow
	0.8		BLA31BD601SN4	600ohm±25%	-	100mA					Flow	R <sub>eff</sub> Flow
0.8		BLA31BD102SN4	1000ohm±25%	-	50mA					Flow	R <sub>eff</sub> Flow	

Chip Ferrite Bead

Chip EMIFIL®

Chip Common Mode Choke Coil

Block Type EMIFIL®

Microwave Absorber

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