

EMI Suppression Filters (for DC)/ Chip Inductors for Automotive



Explanation of category in this catalog

Infotainment



The product for entertainment equipment like car navigations, car audios, and body control equipment like wipers, power windows.

Powertrain, Safety



The product for high reliability applications like powertrain and safety, in addition to infotainment applications.

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 web page, "Murata's Approach for EU RoHS" (https://www.murata.com/en-eu/support/compliance/rohs).

Because of the difference of measurement condition, electrical characteristics plots on this catalog may have some difference to official specification value.



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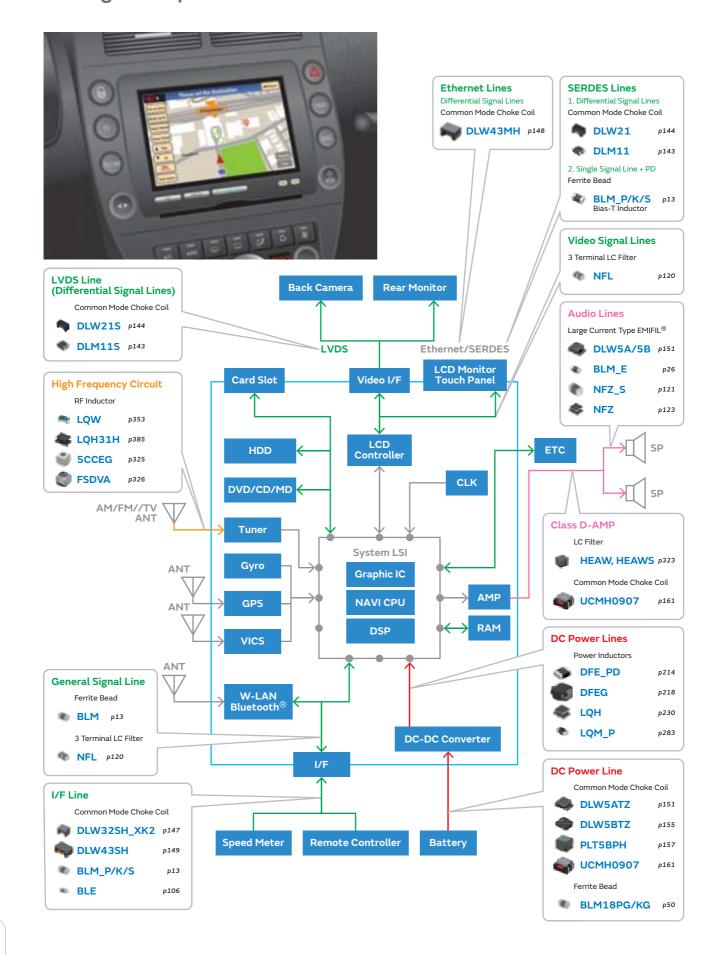
Product specifications are as of November 2017.

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Please check the MURATA website (https://www.murata.com/) if you cannot find a part number in this catalog.

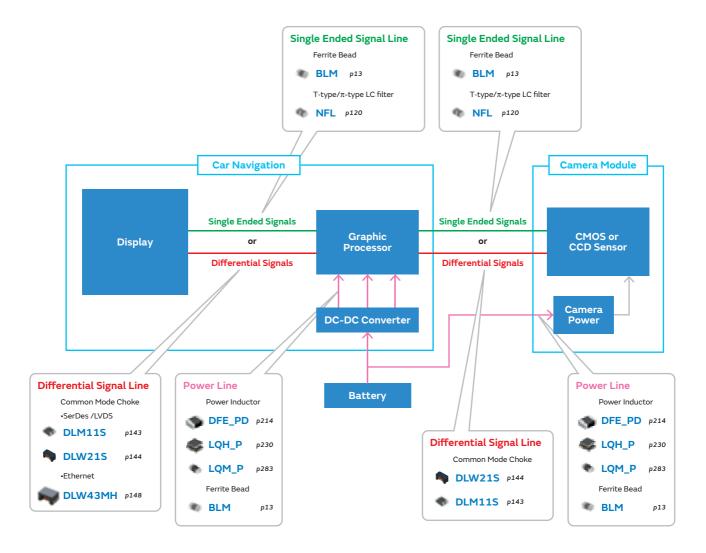


Car Navigation System



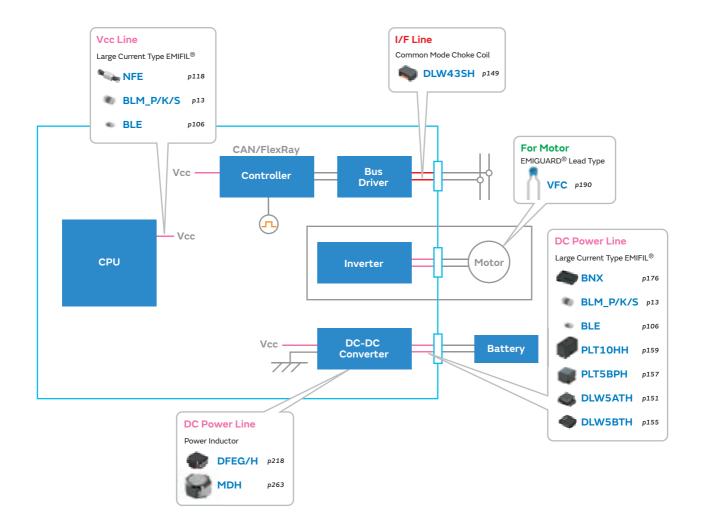
Car Camera System





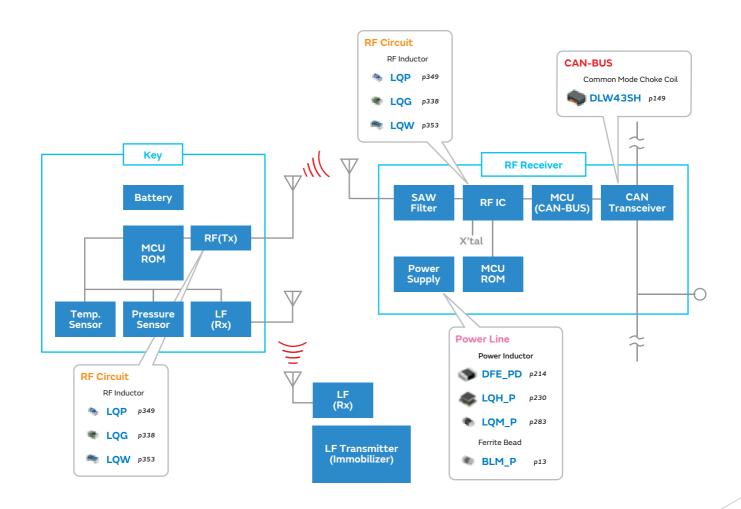
Electronic Control Unit



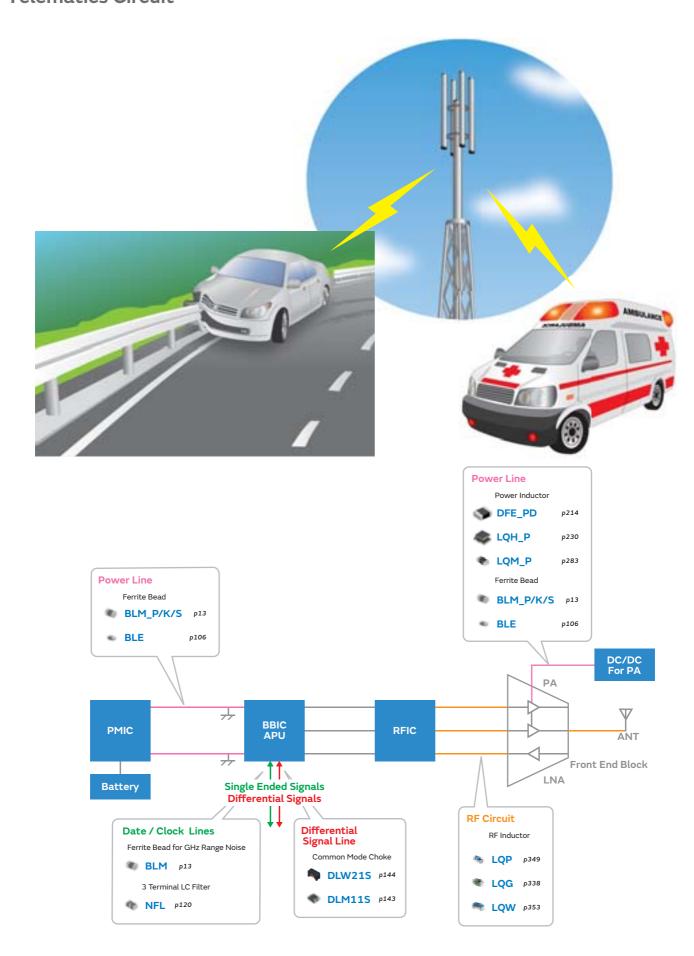


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Product Guide

DI							
Induct	nductor Type		Series	Ар	olications	Size Code in inch (in mm)	Impedance at 100MHz
		rsal Type	BLM03AX p	16 Info- tainm		0201 (0603)	10Ω to 1000Ω
	[Power Lines	s / Signal Lines]	BLM15AX P	32 Info- tainm	ent	0402 (1005)	10Ω to 1000Ω
			BLM03AG P	18 Info- tainm	ent	0201 (0603)	10Ω to 1000Ω
			BLM15AG P	34 Info- tainm	Power- train	0402 (1005)	10Ω to 1000Ω
			BLM18AG P	61 Info-	Power- train	0603 (1608)	120Ω to 1000Ω
		For General	BLM18AG* (150°C available)	65	Power- train	0603 (1608)	120Ω to 1000Ω
		Signal Lines	BLM18AG* (Conductive glue)	63	Power- train	0603 (1608)	470Ω to 1000Ω
	Cienallinas		BLM21AG P	88 Info- tainm	Power- train	0805 (2012)	120Ω to 1000Ω
	Signal Lines Type		BLM21AG* (150°C available)	90	Power- train	0805 (2012)	120Ω to 1000Ω
	.,,,,,		BLM31AJ p10	03	Power- train	1206 (3216)	600Ω
			BLM03B P.	20 Info- tainm	ent	0201 (0603)	10Ω to 600Ω
			BLM15B p.	36 Info-	Power- train	0402 (1005)	5Ω to 1800Ω
		For High Speed Signal Lines	BLM18B P	67 Info-	Power- train	0603 (1608)	5Ω to 2500Ω
		Jigridi Lilies	BLM18B* (150°C available)	72	Power- train	0603 (1608)	47Ω to 2500Ω
oise			BLM21B	92 Info-	Power- train	0805 (2012)	5Ω to 2700Ω
For General Band Noise			BLM03PX*	13 Info-	ent	0201 (0603)	22Ω to 80Ω
Ban			BLM03PG P	15 Info-	ent	0201 (0603)	22Ω to 33Ω
eral			BLM15PX* P	28 Info-	ent	0402 (1005)	33Ω to 600Ω
Gen			BLM15PG/PD*	30 Info-	ent	0402 (1005)	10Ω to 120Ω
For			BLM18PG*	50 Info-	Power- train	0603 (1608)	30Ω to 470Ω
			BLM21PG*	83 Info-	Power- train	0805 (2012)	22Ω to 330Ω
			BLM21PG* (150°C available)	85	Power- train	0805 (2012)	22Ω to 330Ω
			BLM31PG*	96 Info-	_	1206 (3216)	33Ω to 600Ω
			BLM41PG* p10			1806 (4516)	60Ω to 1000Ω
	Power	Lines Type	BLM18KG* (Low DC Resistance Type)	55 Info-		0603 (1608)	26Ω to 1000Ω
	''		BLM18KG* (150°C available)	58	Power- train	0603 (1608)	26Ω to 1000Ω
			BLM31KN*	98 Info-	Power- train	1206 (3216)	120Ω to 1000Ω
			BLM31KN* (150°C available) p10	00	Power- train	1206 (3216)	120Ω to 1000Ω
			BLM18SG* (Low DC Resistance Type)	52 Info-	ent	0603 (1608)	26Ω to 330Ω
			BLM18SN*	54 Info-		0603 (1608)	22Ω
			BLM21SN*	87 Info-	Power- train	0805 (2012)	30Ω
			BLM31SN* p10			1206 (3216)	50Ω
			BLE18PS* p10	06 Info-	ent	0603 (1608)	8.5Ω
			BLE32PN p10			1210 (3225)	26Ω to 30Ω
			BLM03EB*	26 Info-		0201 (0603)	25Ω to 50Ω
	Unive	rsal Type	BLM15EG*	47 Info-		0402 (1005)	120Ω to 220Ω
		s / Signal Lines]	BLM18EG*	79 Info-			100Ω to 600Ω
			BLM18HE*	75 Info-		0603 (1608)	600Ω to 1500Ω
Φ			BLM03HG p.	23 Info-		0201 (0603)	600Ω to 1200Ω
Nois			BLM03HD p.	23 Info-		0201 (0603)	330Ω to 1800Ω
I put			BLM03HB p.	23 Info-		0201 (0603)	190Ω to 400Ω
tz Bé			BLM15HG P	42 Info-		0402 (1005)	600Ω to 1000Ω
For GHz Band Noise	6	i	BLM15HG* (150°C available)	45	Power- train	0402 (1005)	600Ω to 1000Ω
-F	Signal I	_ines Type	BLM15HD P	42 Info-		0402 (1005)	600Ω to 1800Ω
			BLM15HB P	42 Info-		0402 (1005)	120Ω to 220Ω
			BLM18HG P	75 Info-			470Ω to 1000Ω
			BLM18HD P	75 Info-			470Ω to 1000Ω
			BLM18HB P	75 Info-		0603 (1608)	120Ω to 330Ω
Se			BLM15GG P	49 Info-		0402 (1005)	220Ω to 470Ω
For High-GHz Band Noise	Signal I	_ines Type	BLM15GA P	49 Info-		0402 (1005)	75Ω
For H			BLM18GG	82 Info-		0603 (1608)	470Ω
				-		` ′	1

 $^{^{\}star}\,\text{The derating of rated current is required for some items according to the operating temperature on each product page.}$

$NF\square$			Size Code	
Combined Type	Series	Applications	in inch (in mm)	Cut-off Frequency
Signal Lines Type	NFL18ZT p120	Info- tainment	0603 (1608)	50MHz to 500MHz

Combined Type	Series	Applications	Size Code in inch (in mm)	Capacitance
Universal Type	NFE31ZT p118	Info- tainment	1206 (3216)	22pF to 2200pF
[Power Lines / Signal Lines]	NFE61HT p119	Power- train	2706 (6816)	33pF to 3300pF

Inductor Type	Series	Applications	Size Code in inch (in mm)	Impedance at 1MHz
For LED Lines	NFZ32BW* p123	Info- tainment	1210 (3225)	3.3Ω to 880Ω
I of LED Lines	NFZ5BBW* p129	Info- tainment	2020 (5050)	2.9Ω to 140Ω

^{*} The derating of rated current is required for some items according to the operating temperature on each product page.

Inductor Type	Series		ations	Size Code in inch (in mm)	Impedance at 100MHz
For Audio Lines	NFZ18SM*	121 Info- tainment		0603 (1608)	120Ω to 700Ω

^{*} The derating of rated current is required for some items according to the operating temperature on each product page.

Common Mode Choke Coils		Series		Applications	Size Code in inch (in mm)	Common Mode Impedance at 100MHz
	F Diffti-l	DLM11S	p143	Info- tainment	0504 (1210)	45Ω to 90Ω
Signal Lines Type	For Differential Signal Lines	DLW21S	p144	Info- tainment	0805 (2012)	67Ω to 490Ω
Турс		DLW31S	p146	Power- train	1206 (3216)	2200Ω
Univer	sal Type	DLW5BS	p154	Info- tainment	2020 (5050)	500Ω to 800Ω
[Power Lines / Signal Lines]		DLW5AT*/DLW5BT*	p151	Info- tainment Power- train	2014 (5036)/2020 (5050)	45Ω to 1400Ω
Power Lines Type		UCMH0907	p161	Info- tainment	3527 (9070)	700Ω

 $^{^{\}star}\, \text{The derating of rated current is required for some items according to the operating temperature on each product page}.$

Common Mode Choke Coils		Series		Applications	Size Code in inch (in mm)	Common Mode Inductance at 0.1MHz
For CAN/CAN FD/FlexRav		DLW32SH	p147	Power- train	1210 (3225)	11μH to 100μH
	TO CAIN/CAIN FD/Flexkdy	DLW43MH	p148	Power- train	1812 (4532)	200μH

Common Mode Choke Coils	Series	Applications	Size Code in inch (in mm)	Common Mode Inductance at 0.1MHz
Signal Lines Type For Differential Signal Lines	DLW43S p149	Power- train	1812 (4532)	11μH to 100μH

Common Mode Choke Coils		Series		Applications	Size Code in inch (in mm)	Common Mode Inductance at 1MHz
Signal Lines Type	For Differential Signal Lines	DLW43S	p149	Power- train	1812 (4532)	51μH to 100μH

PL .					
Large Current Common Mode Choke Coil for Automotive Available		Series	Applications	Size Code in inch (in mm)	Common Mode Impedance at 10MHz
Dower Lines Type	PLT10H*	p159	Power- train	-	45Ω to 1000Ω
Power Lines Type	PLT5BP*	p157	Power- train	2020 (5050)	100Ω to 500Ω

 $^{^{\}star}\, \text{The derating of rated current is required for some items according to the operating temperature on each product page.}$

BNX Block EMIFIL®		Series		Applications	Height (mm)	Rated Voltage (Vdc)	Rated Current (A)
		BNX024H01*	p176	Power- train	3.5	50	20
Dannalia	SMD Type	BNX025H01*	p176	Power- train	3.5	25	20
Power Lines Type		BNX026H01*	p176	Power- train	3.5	50	20
.,,,,		BNX027H01*	p176	Power- train	3.5	16	20
	Lead Type	BNX012H01*	p191	Power- train	8.5 max.	50	15

^{*} The derating of rated current is required for some items according to the operating temperature on each product page.

	BLL				Height	
Leaded Multilayer Ferrite Beads		Se	eries	Applications	(mm)	Impedance at 100MHz
	Signal Lines Type	BLL18AG	p185	Power- train	4.0 max.	120Ω to 1000Ω

3-Terminal Capacitor Lead Type	Series	Applications	Height (mm)	Capacitance
Universal Type [Power Lines / Signal Lines]	DSS1 p187	Info- tainment	7.5 max.	22pF to 100nF

VF						
Lead Type Capacitor with Varistor Function	Series		Applications	Height (mm)	Capacitance	Varistor Voltage
Power Lines Type	VFC2	p190	Power- train	6.0 max.	1.0µF	27V



Part Numbering

Chip Ferrite Bead for Automotive

(Part Number) BL M 18 AG 102 S Z 1 D

①Product ID

Product ID	
BL	Chip Ferrite Beads

2Type

Code	Туре
E	DC Bias Characteristics Improved Type
М	Ferrite Bead Single Type

3Dimensions (LxW)

Code	Dimensions (LxW)	Size Code (inch)
03	0.6x0.3mm	0201
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
21 2.0x1.25mm		0805
31	3.2x1.6mm	1206
32	3.2x2.5mm	1210
41	4.5x1.6mm	1806

6 Impedance

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 that follow the two figures.

6Electrode

Expressed by a letter.

Ex.)	Code	Electrode
	S/F/T/B/J	Sn Plating
	Α	Au Plating
	W	Ag/Pd

Category

Code		Category	
Z	F Atti	Infotainment	
Н	For Automotive	Powertrain, Safety	

Number of Circuits

Code	Number of Circuits
1	1 Circuit

4Characteristics/Applications

Code *1	Characteristics/Applications	Series
AG		BLM03/15/18/21
AJ	For General Use	BLM31
AX		BLM03/15
BA		BLM15/18
ВВ		BLM03/15/18/21
ВС	For High-speed Signal Lines	BLM03/15
BD		BLM03/15/18/21
вх		BLM15
KG		BLM18
KN		BLM31
PD		BLM15
PG		BLM03/15/18/21/31/41
PN	For Power Lines	BLE32
PS		BLE18
PX		BLM03/15
SG		BLM18
SN		BLM18/21/31
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
НВ		BLM03/15/18
HD	For GHz Band High-speed Signal Lines	BLM03/15/18
HE		BLM18
GA	For High-GHz Band High-speed Signal Lines	BLM15
GG	For High-GHz Band General Use	BLM15/18

 $^{^{\}ast 1}$ Frequency characteristics vary with each code.

Continued on the following page. 🖊

Packaging

Code	Packaging	Series	
K	Embossed Taping (ø330mm Reel)	BLE32, BLM21 *1/31A/31K/31P/41	
L	Embossed Taping (ø180mm Reel)	BLE32, BLM21 *1/31/41	
В	Bulk	All Series	
J	Paper Taping (ø330mm Reel)	BLE18, BLM03/15/18*2/21*3	
D	Paper Taping (ø180mm Reel)	BLE18, BLM03/15/18/21*3	

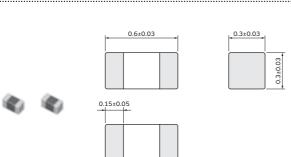
^{*} 1 BLM21BD222S \Box 1/BLM21BD272S \Box 1 only.

 $^{^{\}star 2}$ Except for BLM18KG_JH1/_BH1/BLM18BD_BH1/BLM18AG_BH1

^{*} 3 Except for BLM21BD222S \square 1/BLM21BD272S \square 1

BLM03PX Series 0201/0603(inch/mm)

Appearance/Dimensions



: Electrode

(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	15000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



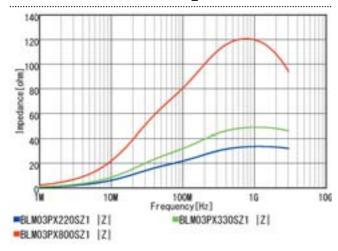
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

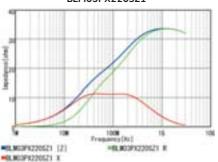
Part N	lumber	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz at 85°C at 125°C		(Max.)	
BLM03PX220SZ1	_	22Ω±25%	1.8A	1.45A	0.04Ω
BLM03PX330SZ1	_	33Ω±25%	1.5A	1.2A	0.055Ω
BLM03PX800SZ1	_	80Ω±25%	1A	800mA	0.13Ω

Operating Temp. Range: -55°C to 125°C

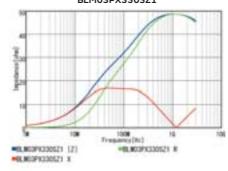
Z-f characteristics: BLM03PX_SZ1 series



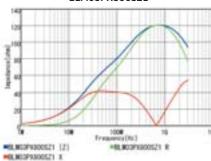
BLM03PX220SZ1



BLM03PX330SZ1



BLM03PX800SZ1

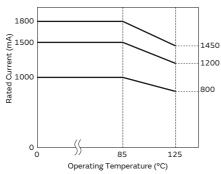


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Derating of Rated Current

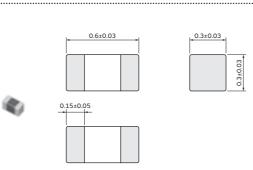
In operating temperature exceeding +85°C, derating of current is necessary for BLM03PX_S \square 1 series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



BLM03PG Series 0201/0603(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	15000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

: Electrode

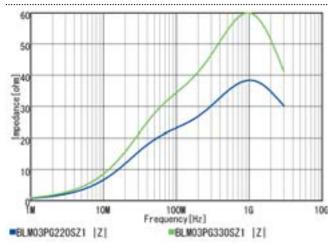
(in mm)

Rated Value (□: packaging code)

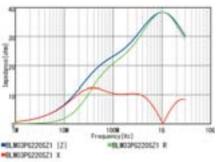
Part N	lumber	Impedance	Rated Current Rated Current		DC Resistance
Infotainment	Powertrain/Safety	Safety at 100MHz at 85°C at 125°C		(Max.)	
BLM03PG220SZ1	_	22Ω±25%	900mA	900mA	0.065Ω
BLM03PG330SZ1	_	33Ω±25%	750mA	750mA	0.09Ω

Operating Temp. Range: -55°C to 125°C

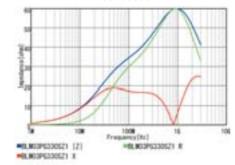
Z-f characteristics: BLM03PG_SZ1 series





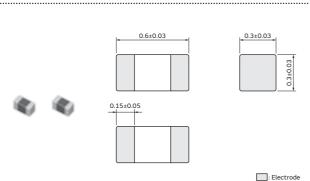


BLM03PG330SZ1



BLM03AX Series 0201/0603(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	15000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



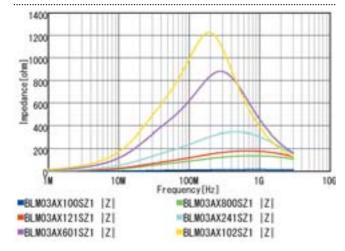
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC	
Infotainment	Powertrain/Safety	at 100MHz at 85°C		at 125°C	Resistance (Max.)	
BLM03AX100SZ1	-	10Ω(Typ.)	1A	1A	0.05Ω	
BLM03AX800SZ1	-	80Ω±25%	500mA	500mA	0.18Ω	
BLM03AX121SZ1	-	120Ω±25%	450mA	450mA	0.23Ω	
BLM03AX241SZ1	-	240Ω±25%	350mA	350mA	0.38Ω	
BLM03AX601SZ1	-	600Ω±25%	250mA	250mA	0.85Ω	
BLM03AX102SZ1	_	1000Ω±25%	200mA	200mA	1.25Ω	

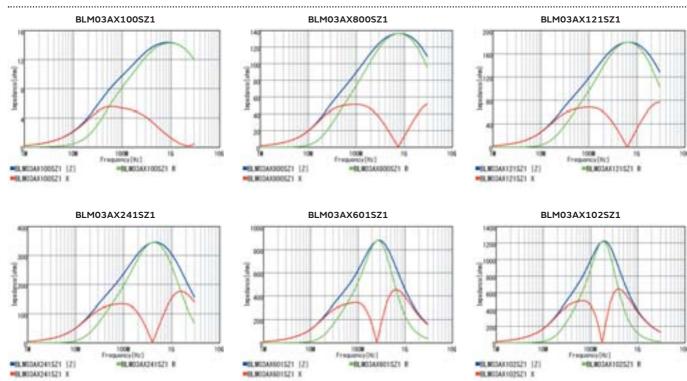
Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM03AX_SZ1 series



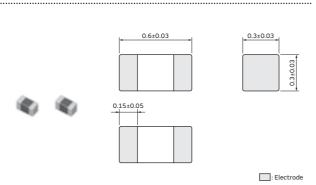
Continued on the following page. 7

Z-f characteristics



BLM03AG Series 0201/0603(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	15000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



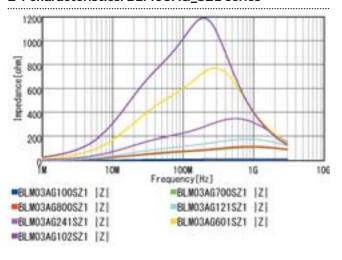
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
BLM03AG100SZ1	_	10Ω(Typ.)	500mA	500mA	0.1Ω	
BLM03AG700SZ1	_	70Ω(Typ.)	200mA	200mA	0.4Ω	
BLM03AG800SZ1	_	80Ω±25%	200mA	200mA	0.4Ω	
BLM03AG121SZ1	_	120Ω±25%	200mA	200mA	0.5Ω	
BLM03AG241SZ1	_	240Ω±25%	200mA	200mA	0.8Ω	
BLM03AG601SZ1	_	600Ω±25%	100mA	100mA	1.5Ω	
BLM03AG102SZ1	_	1000Ω±25%	100mA	100mA	2.5Ω	

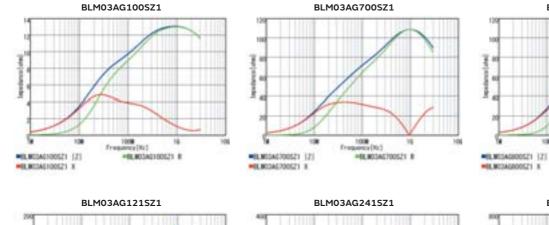
Operating Temp. Range: -55°C to 125°C

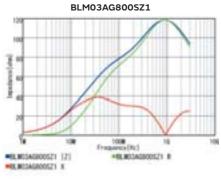
Z-f characteristics: BLM03AG_SZ1 series

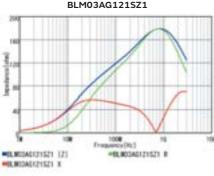


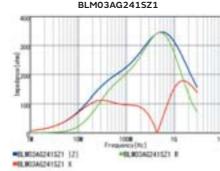
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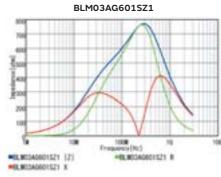
Z-f characteristics

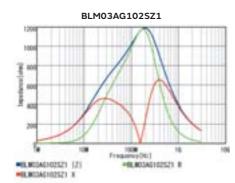






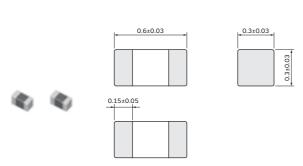






BLM03BB/BC/BD Series 0201/0603(inch/mm)

Appearance/Dimensions



: Electrode

(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	15000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



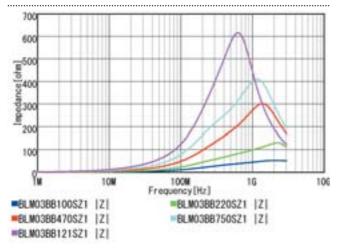
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

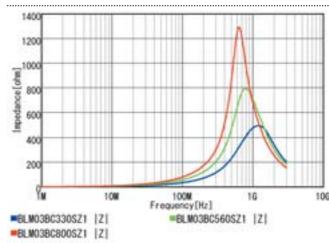
Part N	umber	Impedance	Rated Current	Rated Current	DC	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	Resistance (Max.)	
BLM03BB100SZ1	_	10Ω±25%	300mA	300mA	0.4Ω	
BLM03BB220SZ1	_	22Ω±25%	200mA	200mA	0.5Ω	
BLM03BB470SZ1	_	47Ω±25%	200mA	200mA	0.7Ω	
BLM03BB750SZ1	_	75Ω±25%	200mA	200mA	1Ω	
BLM03BB121SZ1	_	120Ω±25%	100mA	100mA	1.5Ω	
BLM03BC330SZ1	_	33Ω±25%	150mA	150mA	0.85Ω	
BLM03BC560SZ1	_	56Ω±25%	100mA	100mA	1.05Ω	
BLM03BC800SZ1	_	80Ω±25%	100mA	100mA	1.4Ω	
BLM03BD750SZ1	_	75Ω±25%	300mA	300mA	0.4Ω	
BLM03BD121SZ1	_	120Ω±25%	250mA	250mA	0.5Ω	
BLM03BD241SZ1	_	240Ω±25%	200mA	200mA	0.8Ω	
BLM03BD471SZ1	_	470Ω±25%	215mA	215mA	1.5Ω	
BLM03BD601SZ1	_	600Ω±25%	200mA	200mA	1.7Ω	

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM03BB_SZ1 series



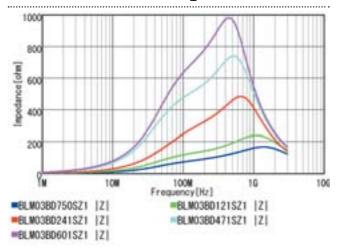
Z-f characteristics: BLM03BC_SZ1 series

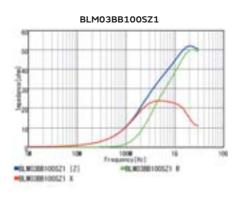


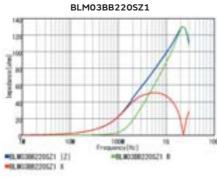
Continued on the following page. 7

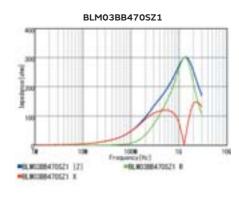


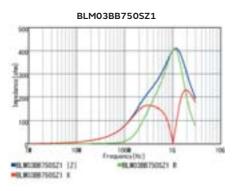
Z-f characteristics: BLM03BD_SZ1 series

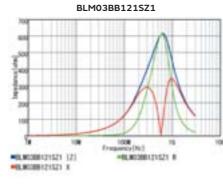


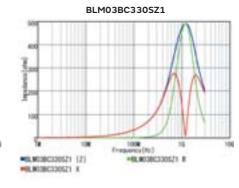


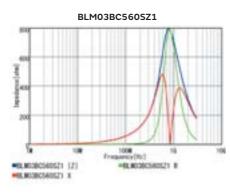


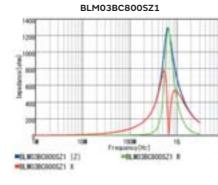


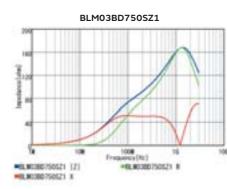






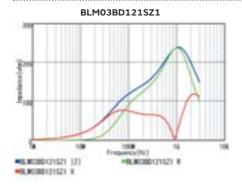


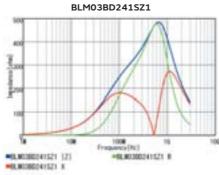


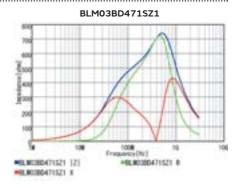


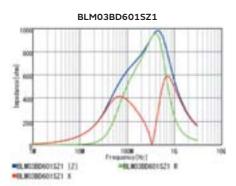
Continued on the following page. 🖊

Z-f characteristics



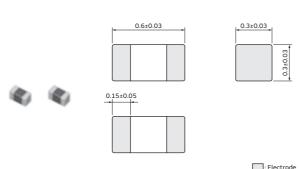






BLM03HB/HD/HG Series 0201/0603(inch/mm)

Appearance/Dimensions



: Electrode

(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	15000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



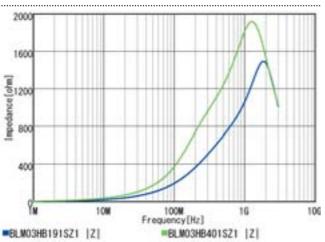
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

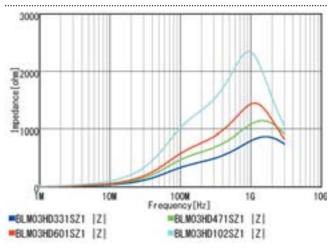
Part N	lumber	Impedance	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz at 1GHz		at 85°C	at 125°C	(Max.)
BLM03HB191SZ1	_	190Ω±25%	1150Ω±40%	150mA	150mA	2Ω
BLM03HB401SZ1	_	400Ω±25%	1850Ω±40%	125mA	125mA	2.8Ω
BLM03HD331SZ1	_	330Ω±25%	750Ω±40%	200mA	200mA	1Ω
BLM03HD471SZ1	_	470Ω±25%	1000Ω±40%	175mA	175mA	1.3Ω
BLM03HD601SZ1	_	600Ω±25%	1500Ω±40%	150mA	150mA	1.7Ω
BLM03HD102FZ1	_	1000Ω±25%	2300Ω±40%	135mA	135mA	2.4Ω
BLM03HD102SZ1	_	1000Ω±25%	2300Ω±40%	120mA	120mA	2.9Ω
BLM03HD152FZ1	_	1500Ω±25%	2700Ω±40%	120mA	120mA	3.1Ω
BLM03HD182FZ1	_	1800Ω±25%	3000Ω±40%	100mA	100mA	3.8Ω
BLM03HG601SZ1	BLM03HG601SH1	600Ω±25%	1000Ω±40%	150mA	150mA	1.6Ω
BLM03HG102SZ1	BLM03HG102SH1	1000Ω±25%	1800Ω±40%	125mA	125mA	2.6Ω
BLM03HG122SZ1	BLM03HG122SH1	1200Ω±25%	2000Ω±40%	100mA	100mA	3.5Ω

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM03HB_SZ1 series

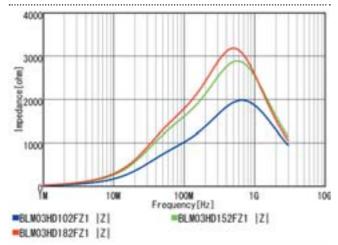


Z-f characteristics: BLM03HD_SZ1 series

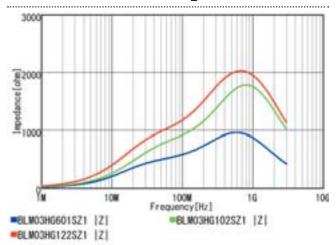


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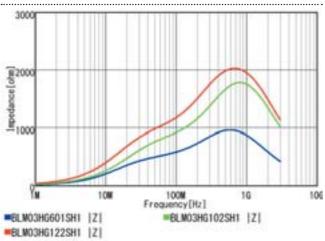
Z-f characteristics: BLM03HD_FZ1 series



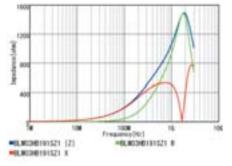
Z-f characteristics: BLM03HG_SZ1 series

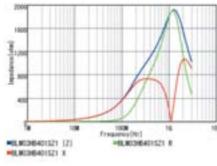


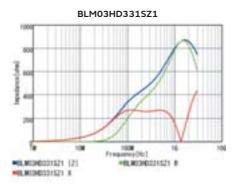
Z-f characteristics: BLM03HG_SH1 series



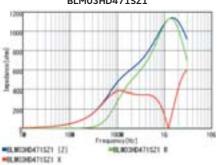
BLM03HB191SZ1 BLM03HB401SZ1

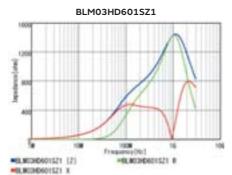


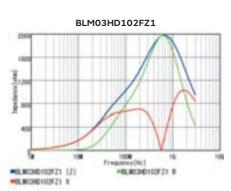




BLM03HD471SZ1

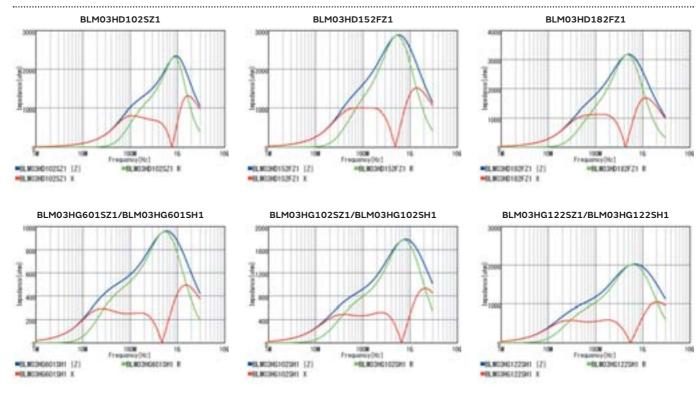






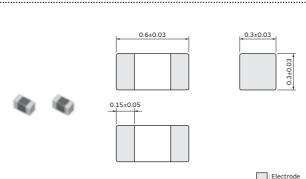
Continued on the following page. 7

Z-f characteristics



BLM03EB Series 0201/0603(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	15000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



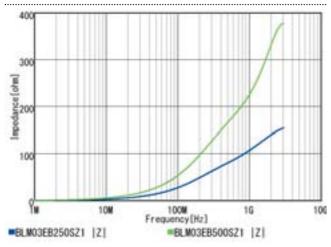
(Resistance element becomes dominant at high frequencies.)

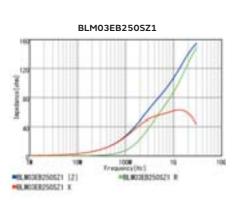
Rated Value (□: packaging code)

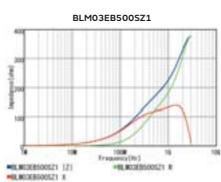
Part Number		Impedance Impedance		Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 1GHz	at 85°C	at 125°C	(Max.)
BLM03EB250SZ1□	_	25Ω±25%	105Ω±40%	600mA	450mA	0.26Ω
BLM03EB500SZ1	_	50Ω±25%	255Ω±40%	400mA	300mA	0.58Ω

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM03EB_SZ1 series





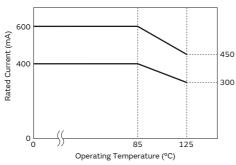


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Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLM03E series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Lead Type EMI Suppression Filters

27

BLM15PX Series 0402/1005(inch/mm)

Appearance/Dimensions







: Electrode

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



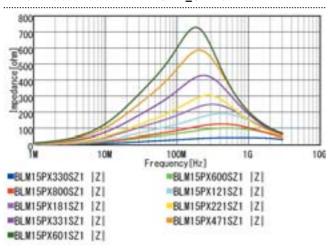
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
BLM15PX330SZ1	_	33Ω±25%	3A	1.7A	0.022Ω
BLM15PX600SZ1	_	60Ω±25%	2.5A	1.4A	0.032Ω
BLM15PX800SZ1	_	80Ω±25%	2.3A	1.3A	0.038Ω
BLM15PX121SZ1	_	120Ω±25%	2A	1.1A	0.055Ω
BLM15PX181SZ1	_	180Ω±25%	1.5A	800mA	0.09Ω
BLM15PX221SZ1	_	220Ω±25%	1.4A	800mA	0.1Ω
BLM15PX331SZ1	_	330Ω±25%	1.2A	700mA	0.15Ω
BLM15PX471SZ1	_	470Ω±25%	1A	600mA	0.2Ω
BLM15PX601SZ1	_	600Ω±25%	900mA	500mA	0.23Ω

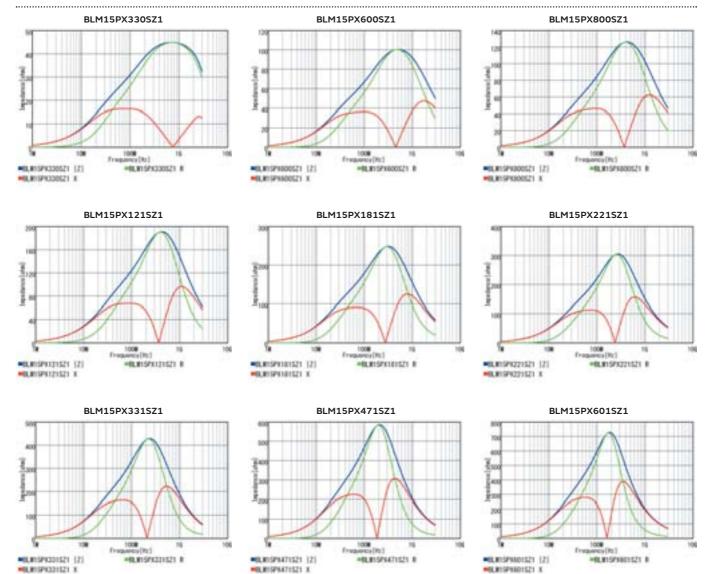
Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM15PX_SZ1 series



Continued on the following page. 7

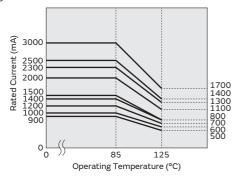
Z-f characteristics



Derating of Rated Current

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 of Rated Current



10000

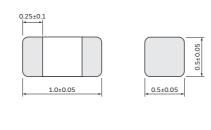
1000

Chip Ferrite Bead SMD Type

BLM15PG/PD Series 0402/1005(inch/mm)

: Electrode

Appearance/Dimensions



В

Packaging

D

ø330mm Paper Tape Bulk(Bag)

Equivalent Circuit



ø180mm Paper Tape

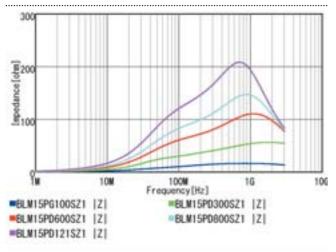
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
BLM15PG100SZ1	_	10Ω(Typ.)	1A	1A	0.025Ω
BLM15PD300SZ1	_	30Ω±25%	2.2A	1.4A	0.035Ω
BLM15PD600SZ1	_	60Ω±25%	1.7A	1.1A	0.06Ω
BLM15PD800SZ1	_	80Ω±25%	1.5A	1A	0.07Ω
BLM15PD121SZ1	_	120Ω±25%	1.3A	900mA	0.09Ω

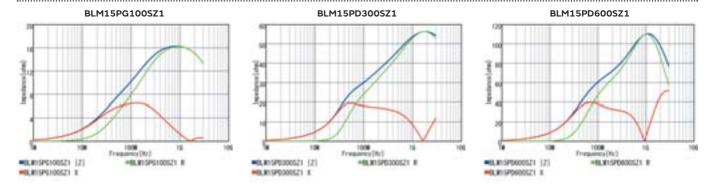
Operating Temp. Range: -55°C to 125°C

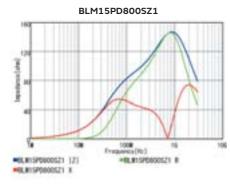
Z-f characteristics: BLM15PG/PD_SZ1 series

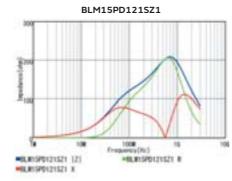


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Z-f characteristics



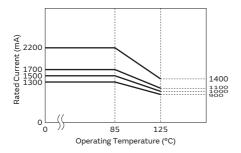




Derating of Rated Current

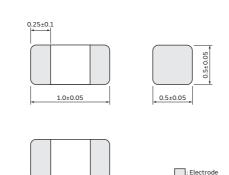
In operating temperature exceeding +85°C, derating of current is necessary for BLM15PD series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



BLM15AX Series 0402/1005(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



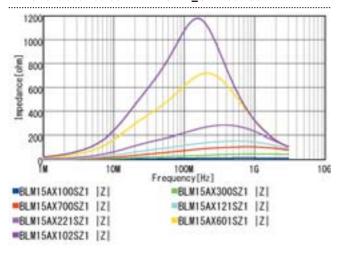
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
BLM15AX100SZ1	-	10Ω±5Ω	1.74A	1.74A	0.015Ω
BLM15AX300SZ1	-	30Ω±25%	1.1A	1.1A	0.06Ω
BLM15AX700SZ1	-	70Ω±25%	780mA	780mA	0.1Ω
BLM15AX121SZ1	-	120Ω±25%	700mA	700mA	0.13Ω
BLM15AX221SZ1	-	220Ω±25%	600mA	600mA	0.18Ω
BLM15AX601SZ1	-	600Ω±25%	500mA	500mA	0.34Ω
BLM15AX102SZ1	_	1000Ω±25%	350mA	350mA	0.49Ω

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM15AX_SZ1 series



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-6L915A0001521 8

■BLRISARIOISZI [Z]

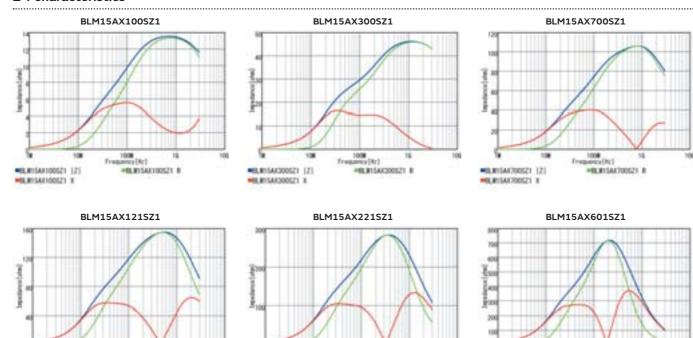
MUNICIPALITY X

Continued from the preceding page.

Z-f characteristics

*BURGANTHSZ1 (Z)

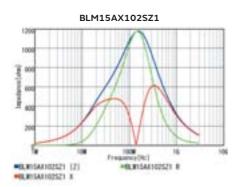
MILHIGANIZHSZI X



-BLBISACITISZI B

■B_B15A0221521 [2]

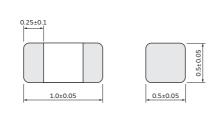
MUNISAKETHSEN K



-6L815AX171521 8

BLM15AG Series 0402/1005(inch/mm)

Appearance/Dimensions



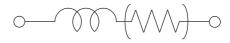
: Electrode

(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



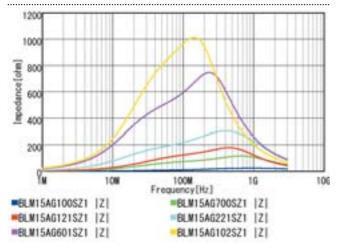
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

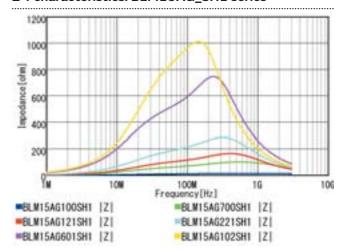
Part Number		Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
BLM15AG100SZ1	BLM15AG100SH1	10Ω(Typ.)	1A	1A	0.025Ω/0.05Ω
BLM15AG700SZ1	BLM15AG700SH1□	70Ω(Typ.)	600mA/500mA	600mA/500mA	0.15Ω
BLM15AG121SZ1	BLM15AG121SH1	120Ω±25%	550mA/500mA	550mA/500mA	0.19Ω/0.25Ω
BLM15AG221SZ1	BLM15AG221SH1	220Ω±25%	450mA/300mA	450mA/300mA	0.29Ω/0.35Ω
BLM15AG601SZ1	BLM15AG601SH1	600Ω±25%	300mA	300mA	0.52Ω/0.6Ω
BLM15AG102SZ1	BLM15AG102SH1	1000Ω±25%	300mA/200mA	300mA/200mA	0.65Ω/1Ω

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM15AG_SZ1 series



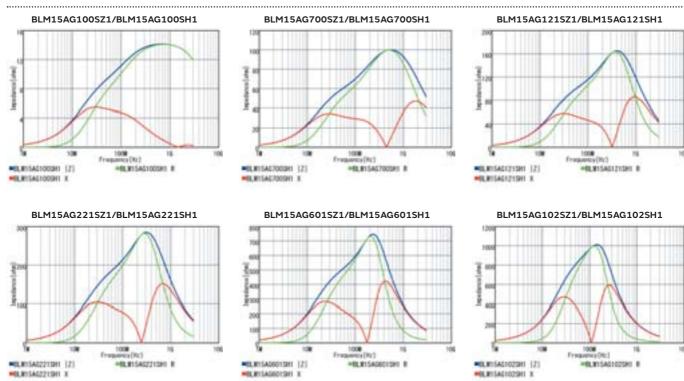
Z-f characteristics: BLM15AG_SH1 series



Continued on the following page. 7

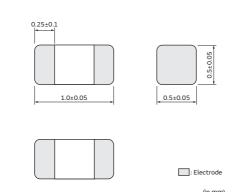


Z-f characteristics



BLM15BX Series 0402/1005(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



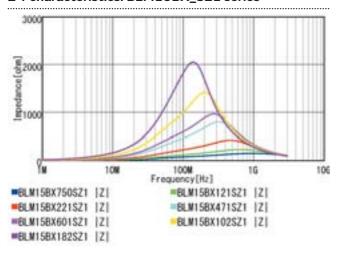
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

` '	(-1 0 0 7					
Part Number		Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
BLM15BX750SZ1	_	75Ω±25%	600mA	600mA	0.15Ω	
BLM15BX121SZ1	_	120Ω±25%	600mA	600mA	0.17Ω	
BLM15BX221SZ1	_	220Ω±25%	450mA	450mA	0.27Ω	
BLM15BX471SZ1	_	470Ω±25%	350mA	350mA	0.41Ω	
BLM15BX601SZ1	_	600Ω±25%	350mA	350mA	0.46Ω	
BLM15BX102SZ1	_	1000Ω±25%	300mA	300mA	0.65Ω	
BLM15BX182SZ1	_	1800Ω±25%	250mA	250mA	0.9Ω	

Operating Temp. Range: -55°C to 125°C

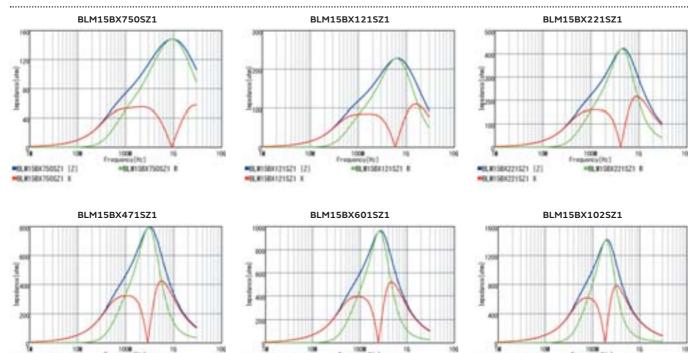
Z-f characteristics: BLM15BX_SZ1 series



Z-f characteristics

■0,01580471521 [2]

MILITERATISES X



-- BLW158X8015Z1 R

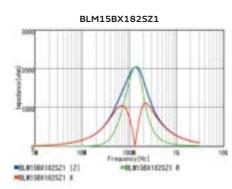
■0, #1500102521 [2]

■ILIMISBUTOPSZ1 X

-- BLW158X1625Z1 R

■0, m 500001521 [2]

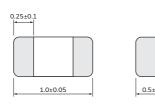
■QUINSBURGISZ1 X



*BL8158X4715Z1 B

BLM15BA/BB/BC/BD Series 0402/1005(inch/mm)

Appearance/Dimensions







: Electrode

(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

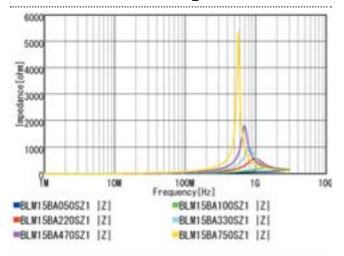
Part N	lumber	Impedance	Rated Current	Rated Current	DC
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	Resistance (Max.)
BLM15BA050SZ1	_	5Ω±25%	300mA	300mA	0.1Ω
BLM15BA100SZ1	_	10Ω±25%	300mA	300mA	0.2Ω
BLM15BA220SZ1	_	22Ω±25%	300mA	300mA	0.3Ω
BLM15BA330SZ1	_	33Ω±25%	300mA	300mA	0.4Ω
BLM15BA470SZ1	_	47Ω±25%	200mA	200mA	0.6Ω
BLM15BA750SZ1	_	75Ω±25%	200mA	200mA	0.8Ω
BLM15BB050SZ1	BLM15BB050SH1	5Ω±25%	500mA	500mA	0.08Ω
BLM15BB100SZ1	BLM15BB100SH1□	10Ω±25%	300mA	300mA	0.1Ω
BLM15BB220SZ1	BLM15BB220SH1□	22Ω±25%	300mA	300mA	0.2Ω
BLM15BB470SZ1	BLM15BB470SH1□	47Ω±25%	300mA	300mA	0.35Ω
BLM15BB750SZ1	BLM15BB750SH1□	75Ω±25%	300mA	300mA	0.4Ω
BLM15BB121SZ1	BLM15BB121SH1□	120Ω±25%	300mA	300mA	0.55Ω
BLM15BB221SZ1	BLM15BB221SH1□	220Ω±25%	200mA	200mA	0.8Ω
BLM15BC121SZ1	_	120Ω±25%	350mA	350mA	0.45Ω
BLM15BC241SZ1	_	240Ω±25%	250mA	250mA	0.7Ω
BLM15BD750SZ1	_	75Ω±25%	300mA	300mA	0.2Ω
BLM15BD121SZ1	_	120Ω±25%	300mA	300mA	0.3Ω
BLM15BD221SZ1	_	220Ω±25%	300mA	300mA	0.4Ω
BLM15BD471SZ1	BLM15BD471SH1□	470Ω±25%	200mA	200mA	0.6Ω
BLM15BD601SZ1	BLM15BD601SH1	600Ω±25%	200mA	200mA	0.65Ω
BLM15BD102SZ1	BLM15BD102SH1	1000Ω±25%	200mA	200mA	0.9Ω
BLM15BD152SZ1	_	1500Ω±25%	190mA	190mA	1Ω
BLM15BD182SZ1□	BLM15BD182SH1□	1800Ω±25%	100mA/200mA	100mA/200mA	1.4Ω

Operating Temp. Range: -55°C to 125°C

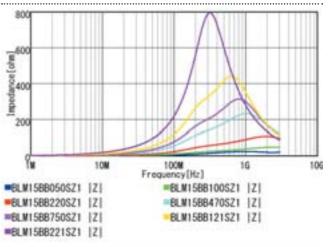
SMD Type

Continued from the preceding page.

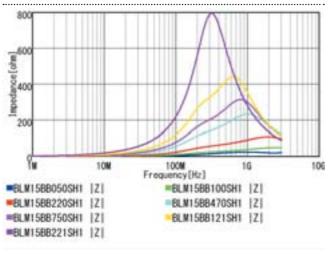
Z-f characteristics: BLM15BA_SZ1 series



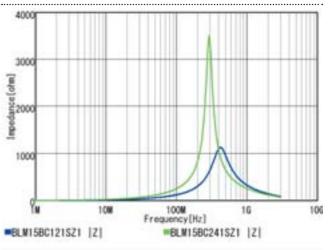
Z-f characteristics: BLM15BB_SZ1 series



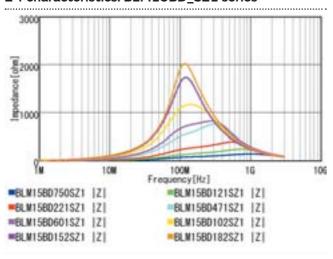
Z-f characteristics: BLM15BB_SH1 series



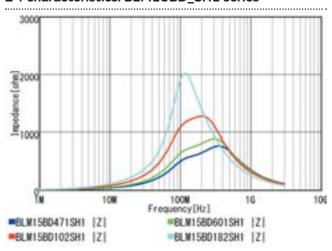
Z-f characteristics: BLM15BC_SZ1 series



Z-f characteristics: BLM15BD_SZ1 series



Z-f characteristics: BLM15BD_SH1 series

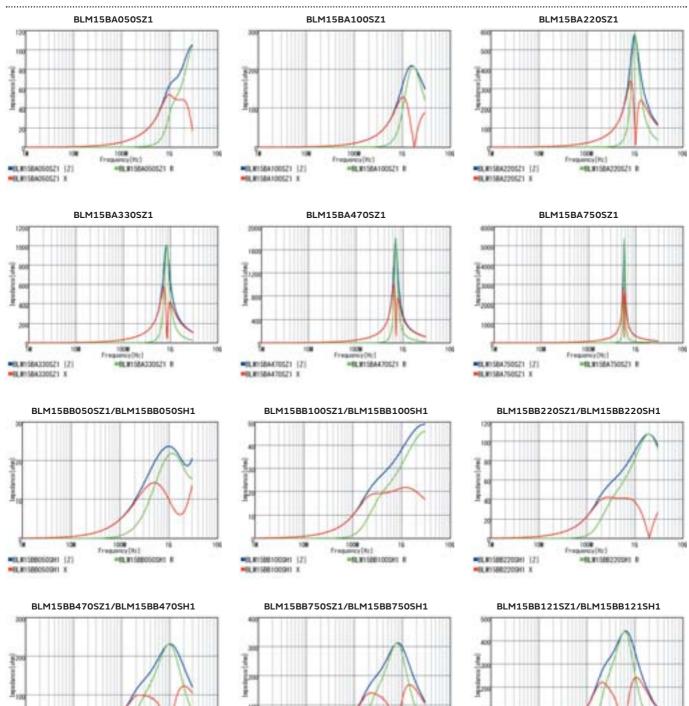


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■0,815864709H [2] ■0,815864709H X #BL81588475391 B

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Z-f characteristics



Continued on the following page. 7

*6L815881713H1 8

■0, #1588121591 [2]

MILITERATION X

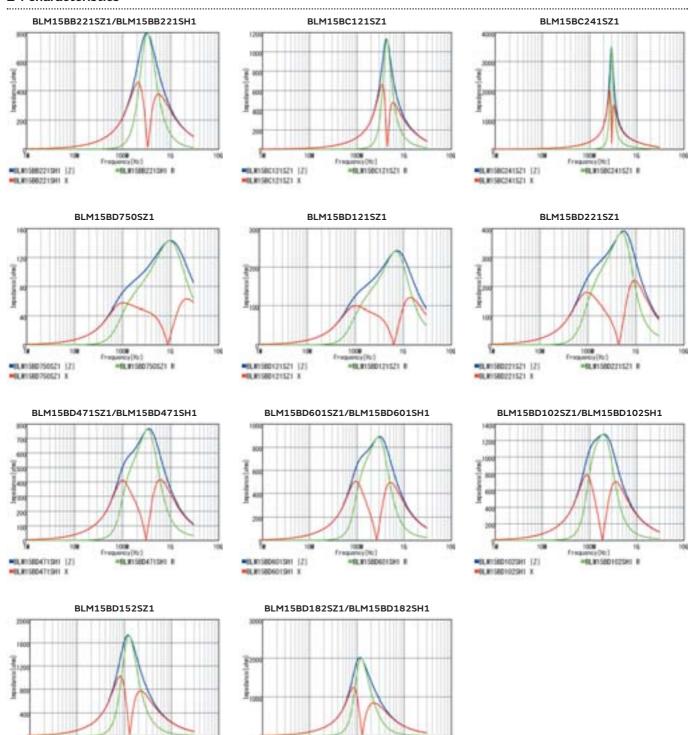
#BL#15887503H1 B

■0,815887500H1 [2]

MILITERSPRESSON X

Z-f characteristics

■0,81980152521 [7] ■0,81980152521 X **BLX158D152521 B



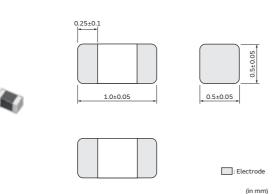
HOLWISSDIESSKI B

■0,81980182941 [7] ■0,81980182941 X

Chip Ferrite Bead SMD Type RI M15HR/HD/H(

BLM15HB/HD/HG Series 0402/1005(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



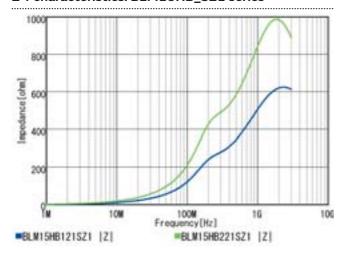
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

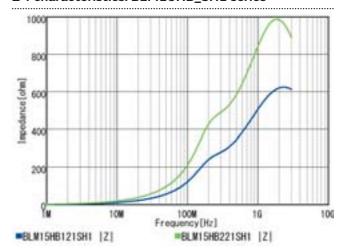
Part Number		Impedance	Impedance I	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 1GHz	at 85°C	at 125°C	(Max.)
BLM15HB121SZ1	BLM15HB121SH1	120Ω±25%	500Ω±40%	300mA	300mA	0.7Ω
BLM15HB221SZ1	BLM15HB221SH1□	220Ω±25%	900Ω±40%	250mA	250mA	1Ω
BLM15HD601SZ1	BLM15HD601SH1	600Ω±25%	1400Ω±40%	300mA	300mA	0.85Ω
BLM15HD102SZ1	BLM15HD102SH1	1000Ω±25%	2000Ω±40%	250mA	250mA	1.25Ω
BLM15HD182SZ1	BLM15HD182SH1	1800Ω±25%	2700Ω±40%	200mA	200mA	2.2Ω
BLM15HG601SZ1	BLM15HG601SH1	600Ω±25%	1000Ω±40%	300mA	300mA	0.7Ω
BLM15HG102SZ1	BLM15HG102SH1□	1000Ω±25%	1400Ω±40%	250mA	250mA	1.1Ω

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM15HB_SZ1 series



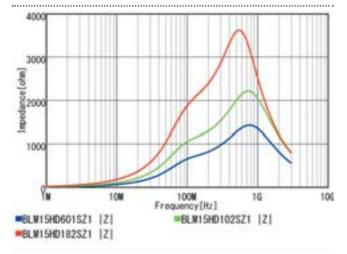
Z-f characteristics: BLM15HB_SH1 series



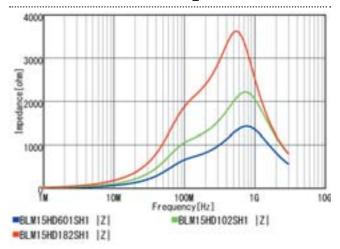
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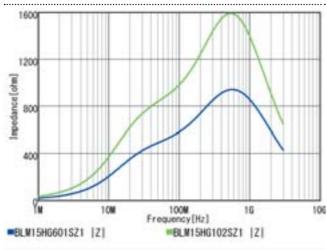
Z-f characteristics: BLM15HD_SZ1 series



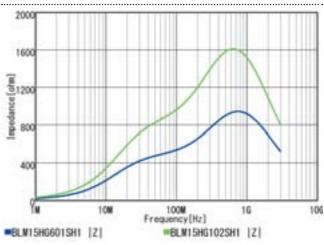
Z-f characteristics: BLM15HD_SH1 series

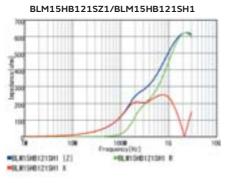


Z-f characteristics: BLM15HG_SZ1 series

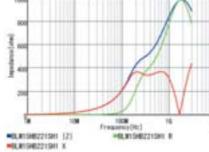


Z-f characteristics: BLM15HG_SH1 series

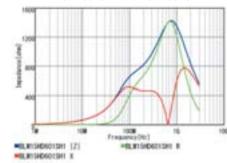


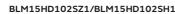


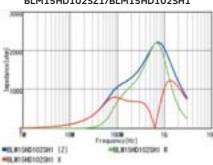
BLM15HB221SZ1/BLM15HB221SH1



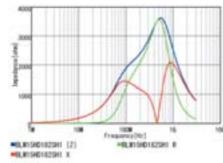
BLM15HD601SZ1/BLM15HD601SH1



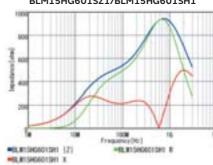




BLM15HD182SZ1/BLM15HD182SH1

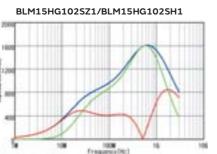


BLM15HG601SZ1/BLM15HG601SH1



Z-f characteristics

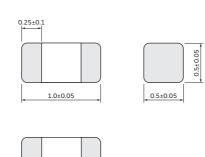
MILITERSTOCKER X



Output Chip Ferrite Bead SMD Type

BLM15HG(150°C available) Series 0402/1005(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

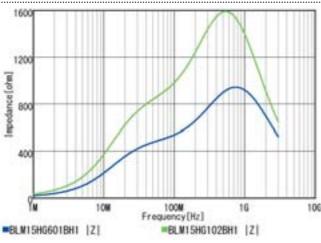
Rated Value (□: packaging code)

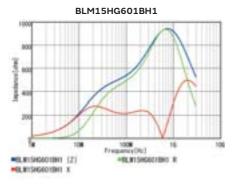
Part Number		Impedance	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 1GHz	at 85°C	at 125°C	(Max.)
_	BLM15HG601BH1□	600Ω±25%	1000Ω±40%	300mA	300mA	0.7Ω
_	BLM15HG102BH1□	1000Ω±25%	1400Ω±40%	250mA	250mA	1.1Ω

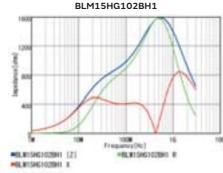
: Electrode

Rated Current at 150°C: 20mA Operating Temp. Range: -55°C to 150°C

Z-f characteristics: BLM15HG_BH1 series

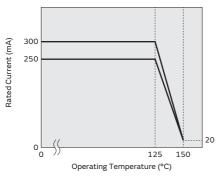






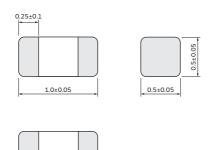
Derating of Rated Current

In operating temperature exceeding $+125^{\circ}$ C, derating of current is necessary for BLM15HG series. Please apply the derating curve shown in chart according to the operating temperature.



BLM15EG Series 0402/1005(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

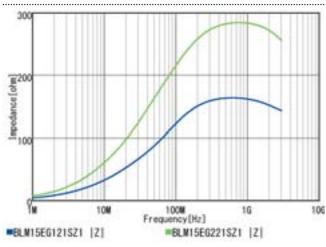
Rated Value (□: packaging code)

Part Number		Impedance	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 1GHz	at 85°C	at 125°C	(Max.)
BLM15EG121SZ1	BLM15EG121SH1□	120Ω±25%	145Ω(Typ.)	1.5A	900mA	0.095Ω
BLM15EG221SZ1	BLM15EG221SH1□	220Ω±25%	270Ω(Typ.)	700mA	500mA	0.28Ω

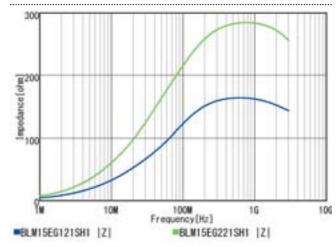
: Electrode

Operating Temp. Range: -55°C to 125°C

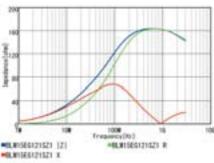
Z-f characteristics: BLM15EG_SZ1 series



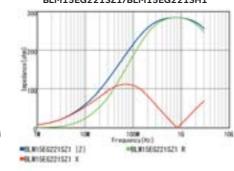
Z-f characteristics: BLM15EG_SH1 series



BLM15EG121SZ1/BLM15EG121SH1

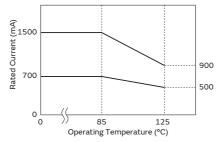


BLM15EG221SZ1/BLM15EG221SH1



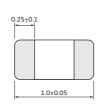
Derating of Rated Current

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.



BLM15GA/GG Series 0402/1005(inch/mm)

Appearance/Dimensions







: Electrode

(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	50000
В	Bulk(Bag)	1000

Equivalent Circuit



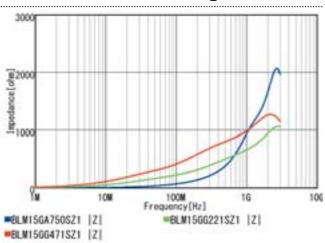
(Resistance element becomes dominant at high frequencies.)

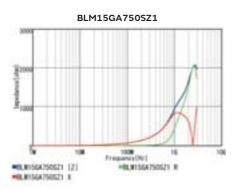
Rated Value (□: packaging code)

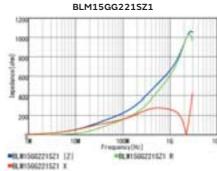
Part Number		Impedance	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 1GHz	at 85°C	at 125°C	(Max.)
BLM15GA750SZ1	_	75Ω±25%	1000Ω±40%	200mA	200mA	1.3Ω
BLM15GG221SZ1	_	220Ω±25%	600Ω±40%	300mA	300mA	0.7Ω
BLM15GG471SZ1	_	470Ω±25%	1200Ω±40%	200mA	200mA	1.3Ω

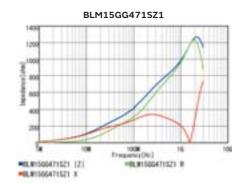
Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM15GA/GG_SZ1 series



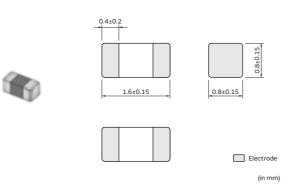






BLM18PG Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

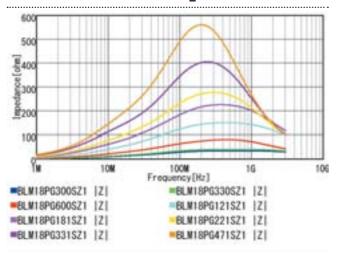
Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	(Max.)	
BLM18PG300SZ1	BLM18PG300SH1	30Ω(Typ.)	1A	0.05Ω	
BLM18PG330SZ1	BLM18PG330SH1□	33Ω±25%	3A	0.025Ω	
BLM18PG600SZ1	BLM18PG600SH1	60Ω(Typ.)	1A	0.1Ω	
BLM18PG121SZ1	BLM18PG121SH1□	120Ω±25%	2A	0.05Ω	
BLM18PG181SZ1	BLM18PG181SH1□	180Ω±25%	1.5A	0.09Ω	
BLM18PG221SZ1	BLM18PG221SH1□	220Ω±25%	1.4A	0.1Ω	
BLM18PG331SZ1	BLM18PG331SH1	330Ω±25%	1.2A	0.15Ω	
BLM18PG471SZ1	BLM18PG471SH1□	470Ω±25%	1A	0.2Ω	

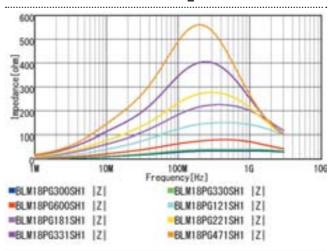
Rated Current at 125°C: 1A

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM18PG_SZ1 series



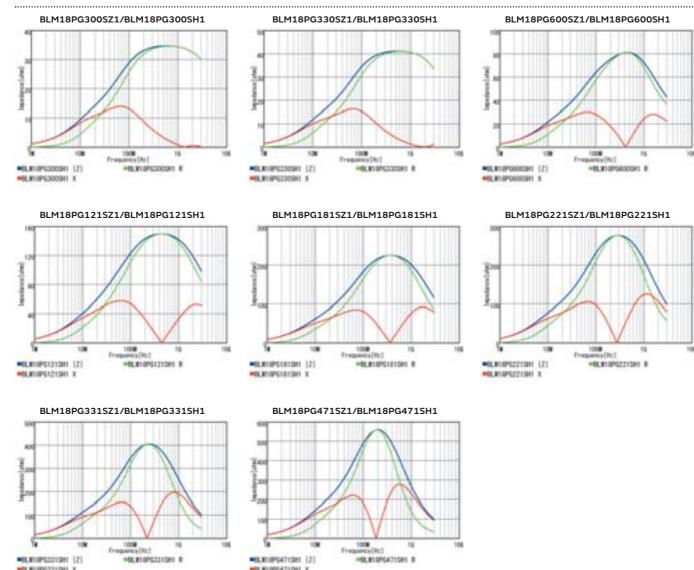
Z-f characteristics: BLM18PG_SH1 series



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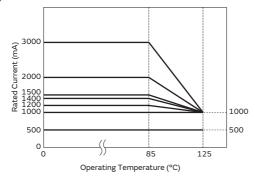


Z-f characteristics



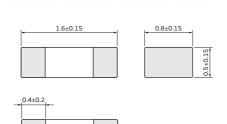
Derating of Rated Current

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.



BLM18SG Series 0603/1608(inch/mm)

Appearance/Dimensions



: Electrode

(in mm

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	10000
J	ø330mm Paper Tape	30000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

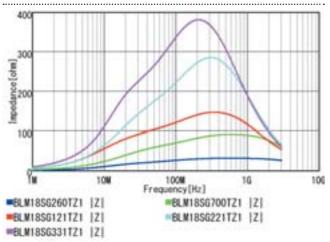
Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	(Max.)	
BLM18SG260TZ1	_	26Ω±25%	6A	0.007Ω	
BLM18SG700TZ1	_	70Ω±25%	4A	0.02Ω	
BLM18SG121TZ1	_	120Ω±25%	3A	0.025Ω	
BLM18SG221TZ1	_	220Ω±25%	2.5A	0.04Ω	
BLM18SG331TZ1	_	330Ω±25%	1.5A	0.07Ω	

Rated Current at 125°C: 1A

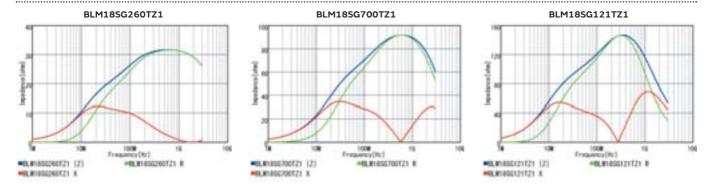
Operating Temp. Range: -55°C to 125°C

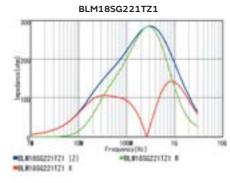
Z-f characteristics: BLM18SG_TZ1 series

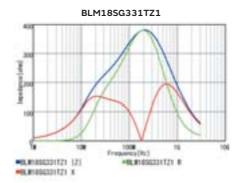




Z-f characteristics

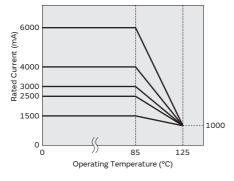






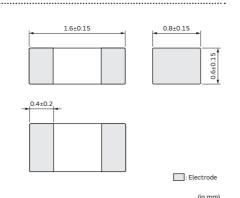
Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLM18SG_T \Box 1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM18SN Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
В	Bulk(Bag)	1000

Equivalent Circuit



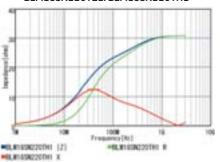
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance Rated Current		Rated Current	DC Resistance	Operating
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	Temp. Range
BLM18SN220TZ1	BLM18SN220TH1	22Ω±7Ω	8A	5A	0.004Ω	-55°C to 125°C

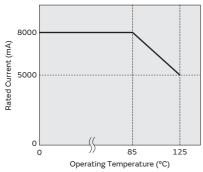
Z-f characteristics

BLM18SN220TZ1/BLM18SN220TH1



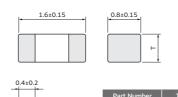
Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLM18SN series. Please apply the derating curve shown in chart according to the operating temperature.



BLM18KG Series 0603/1608(inch/mm)

Appearance/Dimensions



: Electrode

BLM18KG_T□ 0.6±0.15 BLM18KG_S□ 0.8±0.15

(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



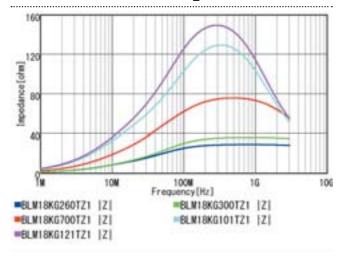
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

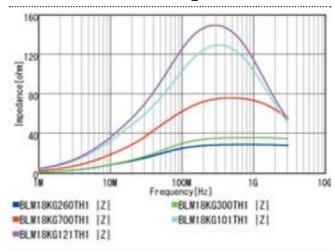
Part Number		Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
BLM18KG260TZ1□	BLM18KG260TH1□	26Ω±25%	6A	4A	0.007Ω
BLM18KG300TZ1□	BLM18KG300TH1□	30Ω±25%	5A	3.3A	0.01Ω
BLM18KG700TZ1	BLM18KG700TH1	70Ω±25%	3.5A	2.2A	0.022Ω
BLM18KG101TZ1	BLM18KG101TH1	100Ω±25%	3A	1.9A	0.03Ω
BLM18KG121TZ1	BLM18KG121TH1□	120Ω±25%	3A	1.9A	0.03Ω
BLM18KG221SZ1	BLM18KG221SH1□	220Ω±25%	2.2A	1.5A	0.05Ω
BLM18KG331SZ1	BLM18KG331SH1□	330Ω±25%	1.7A	1.2A	0.08Ω
BLM18KG471SZ1	BLM18KG471SH1□	470Ω±25%	1.5A	1A	0.13Ω
BLM18KG601SZ1	BLM18KG601SH1	600Ω±25%	1.3A	1A	0.15Ω
BLM18KG102SZ1	BLM18KG102SH1□	1000Ω±25%	1A	800mA	0.2Ω

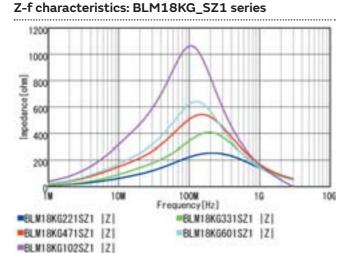
Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM18KG_TZ1 series

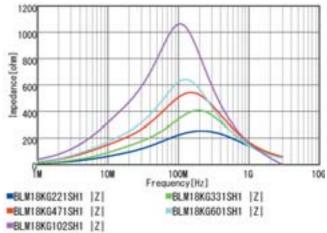


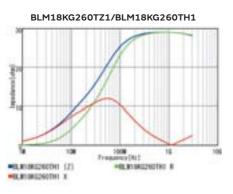
Z-f characteristics: BLM18KG_TH1 series

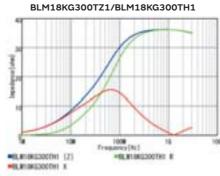


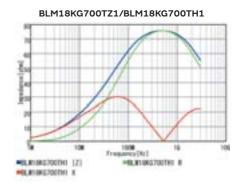


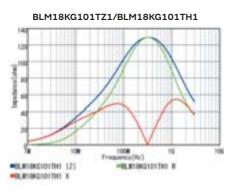
Z-f characteristics: BLM18KG_SH1 series 1200 1000

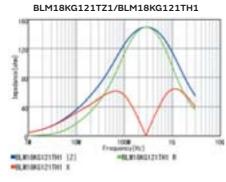


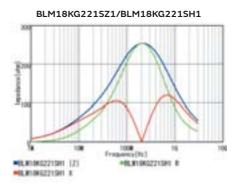


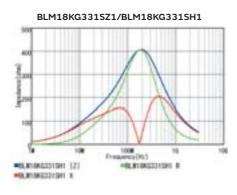


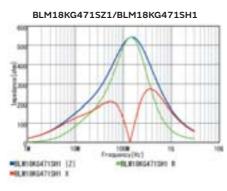


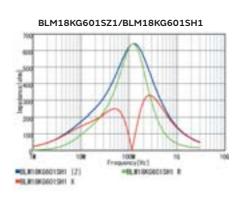






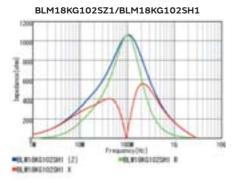






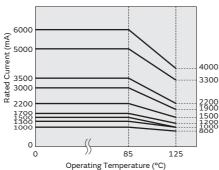
Continued on the following page. 🖊

Z-f characteristics



Derating of Rated Current

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.

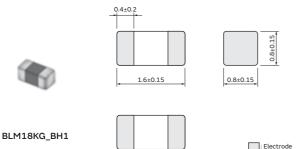


Microchip Iransformer (Ballun)

Chip Ferrite Bead SMD Type

BLM18KG(150°C available) Series 0603/1608(inch/mm)

Appearance/Dimensions



(in mm)

Packaging

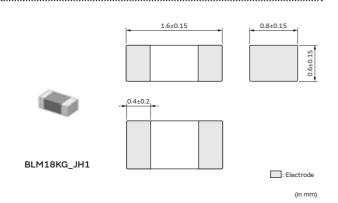
Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

Appearance/Dimensions

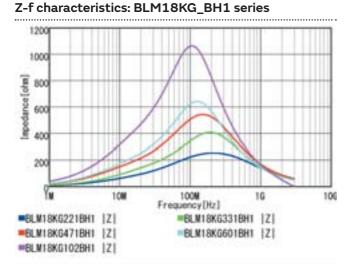


Rated Value (□: packaging code)

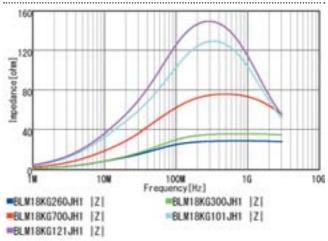
Part N	Part Number		Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
_	BLM18KG221BH1□	220Ω±25%	1.5A	1.5A	0.05Ω
_	BLM18KG331BH1□	330Ω±25%	1.2A	1.2A	0.08Ω
_	BLM18KG471BH1□	470Ω±25%	1A	1A	0.13Ω
_	BLM18KG601BH1□	600Ω±25%	1A	1A	0.15Ω
_	BLM18KG102BH1□	1000Ω±25%	800mA	800mA	0.2Ω
_	BLM18KG260JH1□	26Ω±25%	4A	4A	0.007Ω
_	BLM18KG300JH1□	30Ω±25%	3.3A	3.3A	0.01Ω
_	BLM18KG700JH1□	70Ω±25%	2.2A	2.2A	0.022Ω
_	BLM18KG101JH1□	100Ω±25%	1.9A	1.9A	0.03Ω
_	BLM18KG121JH1□	120Ω±25%	1.9A	1.9A	0.03Ω

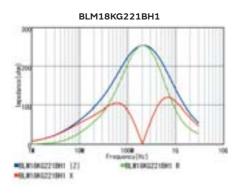
Rated Current at 150°C: 10mA Operating Temp. Range: -55°C to 150°C

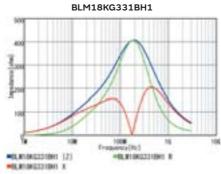
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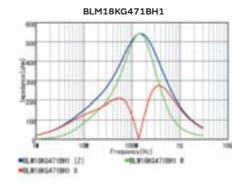


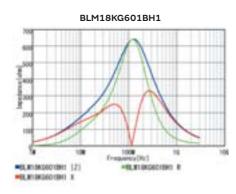
Z-f characteristics: BLM18KG_JH1 series

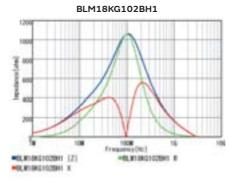


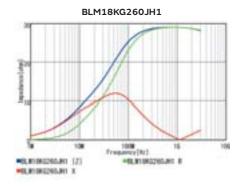


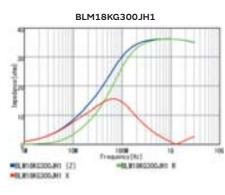


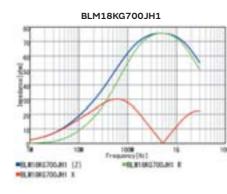


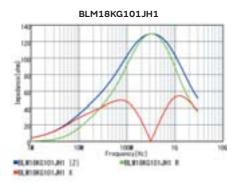






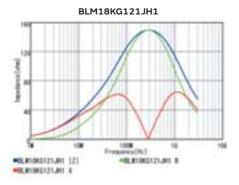






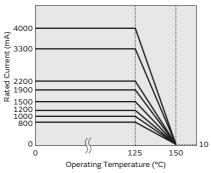
Continued on the following page. 🖊

Z-f characteristics



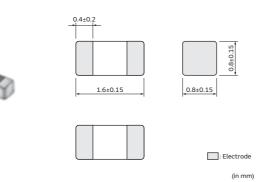
Derating of Rated Current

In operating temperature exceeding +125°C, derating of current is necessary for BLM18KG_JH1/_BH1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM18AG Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



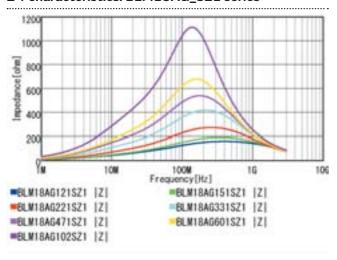
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

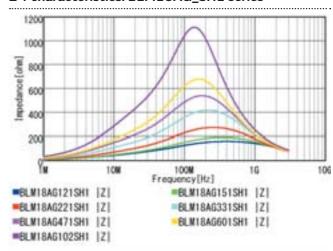
Part Number		Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
BLM18AG121SZ1	BLM18AG121SH1□	120Ω±25%	800mA	800mA	0.18Ω
BLM18AG151SZ1	BLM18AG151SH1□	150Ω±25%	700mA	700mA	0.25Ω
BLM18AG221SZ1	BLM18AG221SH1□	220Ω±25%	700mA	700mA	0.25Ω
BLM18AG331SZ1	BLM18AG331SH1□	330Ω±25%	600mA	600mA	0.3Ω
BLM18AG471SZ1	BLM18AG471SH1□	470Ω±25%	550mA	550mA	0.35Ω
BLM18AG601SZ1	BLM18AG601SH1	600Ω±25%	500mA	500mA	0.38Ω
BLM18AG102SZ1	BLM18AG102SH1	1000Ω±25%	450mA	450mA	0.5Ω

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM18AG_SZ1 series

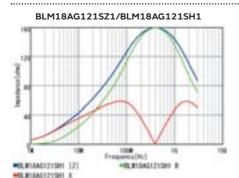


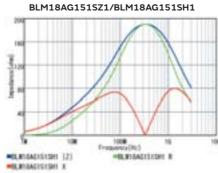
Z-f characteristics: BLM18AG_SH1 series

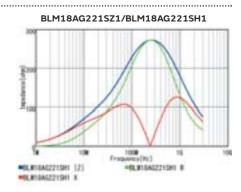


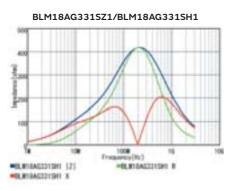
Continued on the following page. 🖊

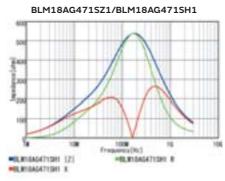
Z-f characteristics

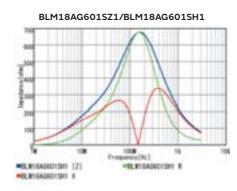


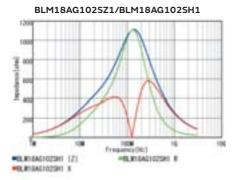






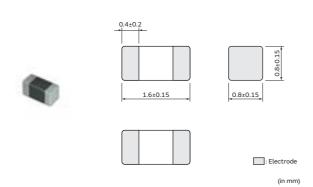






BLM18AG(for conductive glue mounting) Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity	
D	ø180mm Paper Tape	4000	
J	ø330mm Paper Tape	10000	
В	B Bulk(Bag)		

Equivalent Circuit



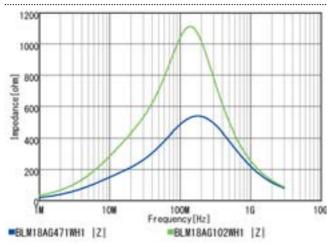
(Resistance element becomes dominant at high frequencies.)

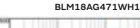
Rated Value (□: packaging code)

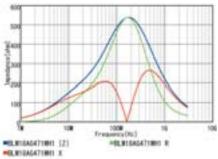
	Part Number		Impedance	Rated Current	Rated Current	Rated Current	DC Resistance
	Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	at 150°C	(Max.)
Ī	_	BLM18AG471WH1□	470Ω±25%	1A	1A	500mA	0.2Ω
Ī	_	BLM18AG102WH1□	1000Ω±25%	200mA	200mA	100mA	0.7Ω

Operating Temp. Range: -55°C to 150°C

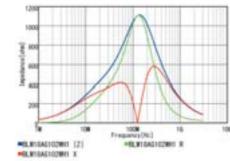
Z-f characteristics: BLM18AG_WH1 series





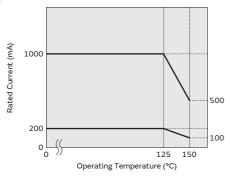


BLM18AG102WH1



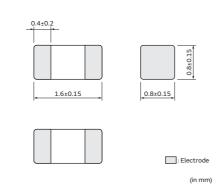
Derating of Rated Current

In operating temperature exceeding +125°C, derating of current is necessary for BLM18AG_WH1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM18AG(150°C available) Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
В	Bulk(Bag)	1000

Equivalent Circuit



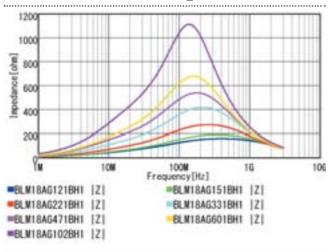
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
_	BLM18AG121BH1□	120Ω±25%	800mA	800mA	0.18Ω
_	BLM18AG151BH1□	150Ω±25%	700mA	700mA	0.25Ω
_	BLM18AG221BH1□	220Ω±25%	700mA	700mA	0.25Ω
_	BLM18AG331BH1□	330Ω±25%	600mA	600mA	0.3Ω
_	BLM18AG471BH1□	470Ω±25%	550mA	550mA	0.35Ω
_	BLM18AG601BH1□	600Ω±25%	500mA	500mA	0.38Ω
_	BLM18AG102BH1□	1000Ω±25%	450mA	450mA	0.5Ω

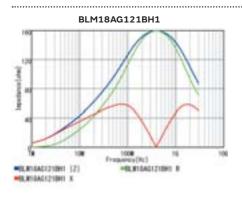
Rated Current at 150°C: 10mA Operating Temp. Range: -55°C to 150°C

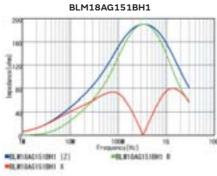
Z-f characteristics: BLM18AG_BH1 series

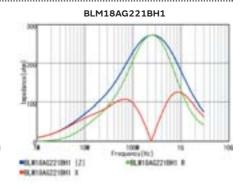


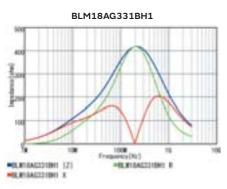
Z-f characteristics

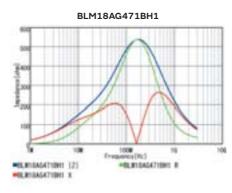
Continued from the preceding page.

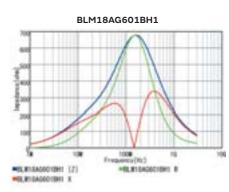


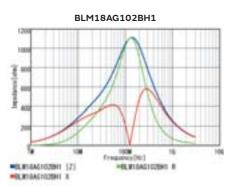






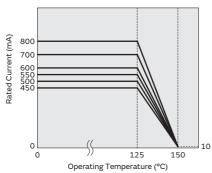






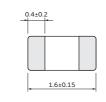
Derating of Rated Current

In operating temperature exceeding $+125^{\circ}$ C, derating of current is necessary for BLM18AG_BH1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM18BA/BB/BD Series 0603/1608(inch/mm)

Appearance/Dimensions







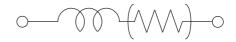
: Electrode

(in mn

Packaging

Code	Packaging	Minimum Quantity	
D	D ø180mm Paper Tape		
J	ø330mm Paper Tape	10000	
В	Bulk(Bag)		

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

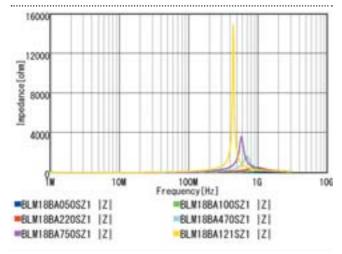
Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
BLM18BA050SZ1	BLM18BA050SH1□	5Ω±25%	500mA	500mA	0.2Ω	
BLM18BA100SZ1	BLM18BA100SH1□	10Ω±25%	500mA	500mA	0.25Ω	
BLM18BA220SZ1	BLM18BA220SH1□	22Ω±25%	500mA	500mA	0.35Ω	
BLM18BA470SZ1	BLM18BA470SH1□	47Ω±25%	300mA	300mA	0.55Ω	
BLM18BA750SZ1	BLM18BA750SH1	75Ω±25%	300mA	300mA	0.7Ω	
BLM18BA121SZ1	BLM18BA121SH1□	120Ω±25%	200mA	200mA	0.9Ω	
BLM18BB050SZ1	BLM18BB050SH1□	5Ω±25%	800mA	800mA	0.05Ω	
BLM18BB100SZ1	BLM18BB100SH1□	10Ω±25%	700mA	700mA	0.1Ω	
BLM18BB220SZ1	BLM18BB220SH1□	22Ω±25%	700mA	700mA	0.2Ω	
BLM18BB470SZ1	BLM18BB470SH1□	47Ω±25%	600mA	600mA	0.25Ω	
BLM18BB600SZ1	BLM18BB600SH1□	60Ω±25%	600mA	600mA	0.25Ω	
BLM18BB750SZ1	BLM18BB750SH1□	75Ω±25%	600mA	600mA	0.3Ω	
BLM18BB121SZ1	BLM18BB121SH1□	120Ω±25%	550mA	550mA	0.3Ω	
BLM18BB141SZ1	BLM18BB141SH1□	140Ω±25%	500mA	500mA	0.35Ω	
BLM18BB151SZ1	BLM18BB151SH1□	150Ω±25%	450mA	450mA	0.37Ω	
BLM18BB221SZ1	BLM18BB221SH1□	220Ω±25%	450mA	450mA	0.45Ω	
BLM18BB331SZ1	BLM18BB331SH1□	330Ω±25%	400mA	400mA	0.58Ω	
BLM18BB471SZ1	BLM18BB471SH1□	470Ω±25%	300mA	300mA	0.85Ω	
BLM18BD470SZ1	BLM18BD470SH1□	47Ω±25%	500mA	500mA	0.3Ω	
BLM18BD121SZ1	BLM18BD121SH1□	120Ω±25%	300mA	300mA	0.4Ω	
BLM18BD151SZ1	BLM18BD151SH1□	150Ω±25%	300mA	300mA	0.4Ω	
BLM18BD221SZ1	BLM18BD221SH1□	220Ω±25%	250mA	250mA	0.45Ω	
BLM18BD331SZ1	BLM18BD331SH1□	330Ω±25%	250mA	250mA	0.5Ω	
BLM18BD421SZ1	BLM18BD421SH1□	420Ω±25%	250mA	250mA	0.55Ω	
BLM18BD471SZ1	BLM18BD471SH1□	470Ω±25%	250mA	250mA	0.55Ω	
BLM18BD601SZ1	BLM18BD601SH1□	600Ω±25%	200mA	200mA	0.65Ω	
BLM18BD102SZ1	BLM18BD102SH1□	1000Ω±25%	200mA	200mA	0.85Ω	
BLM18BD152SZ1	BLM18BD152SH1□	1500Ω±25%	150mA	150mA	1.2Ω	
BLM18BD182SZ1	BLM18BD182SH1□	1800Ω±25%	150mA	150mA	1.5Ω	
BLM18BD222SZ1	BLM18BD222SH1□	2200Ω±25%	150mA	150mA	1.5Ω	
BLM18BD252SZ1	BLM18BD252SH1□	2500Ω±25%	150mA	150mA	1.5Ω	

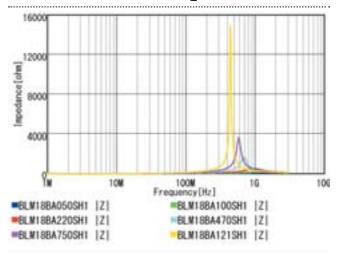
Operating Temp. Range: -55°C to 125°C



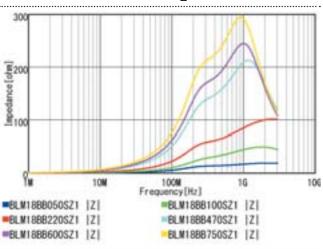
Z-f characteristics: BLM18BA_SZ1 series



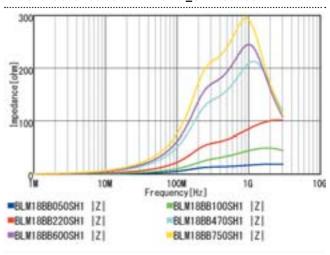
Z-f characteristics: BLM18BA_SH1 series



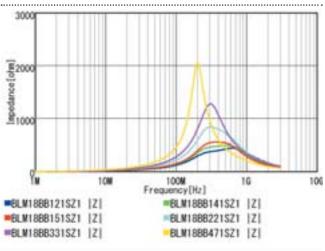
Z-f characteristics: BLM18BB_SZ1 series



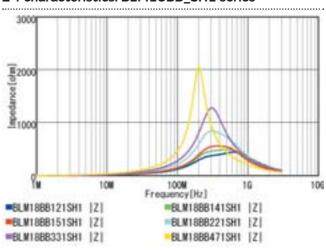
Z-f characteristics: BLM18BB_SH1 series



Z-f characteristics: BLM18BB_SZ1 series

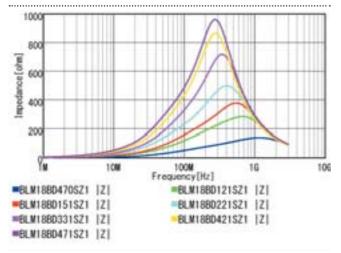


Z-f characteristics: BLM18BB_SH1 series

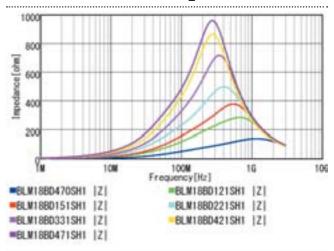


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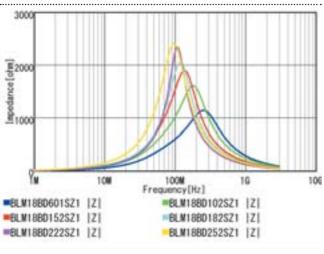
Z-f characteristics: BLM18BD_SZ1 series



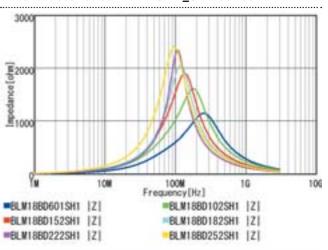
Z-f characteristics: BLM18BD_SH1 series

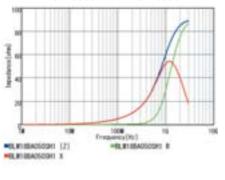


Z-f characteristics: BLM18BD_SZ1 series



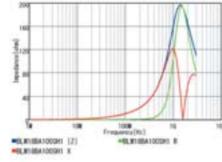
Z-f characteristics: BLM18BD_SH1 series



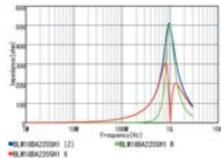


BLM18BA050SZ1/BLM18BA050SH1

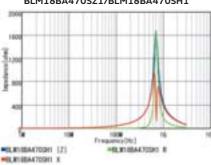
BLM18BA100SZ1/BLM18BA100SH1



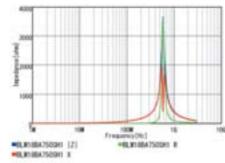
BLM18BA220SZ1/BLM18BA220SH1



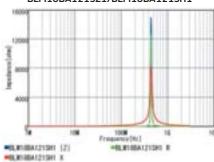
BLM18BA470SZ1/BLM18BA470SH1



BLM18BA750SZ1/BLM18BA750SH1



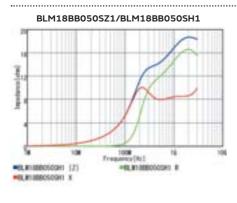
BLM18BA121SZ1/BLM18BA121SH1

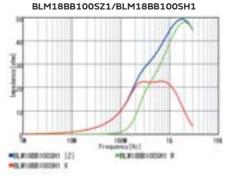


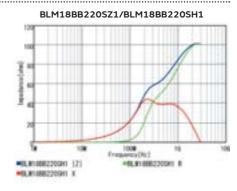
70

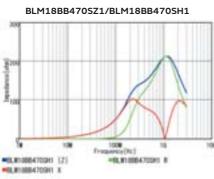
SMD Type

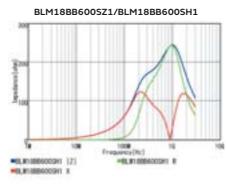
Z-f characteristics

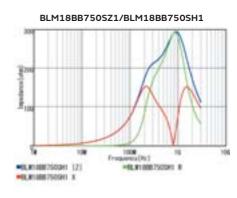


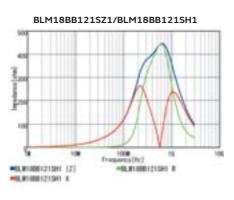


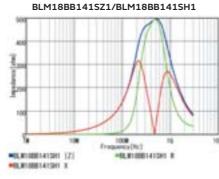


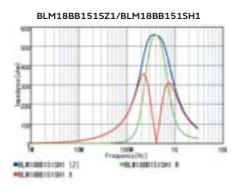


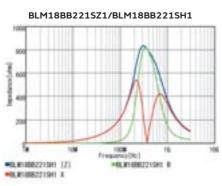


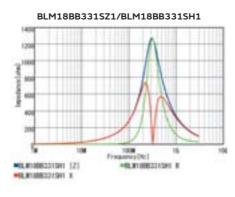


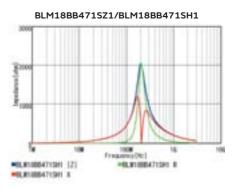


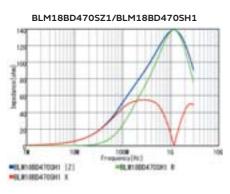


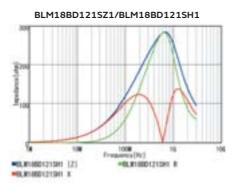




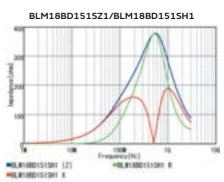




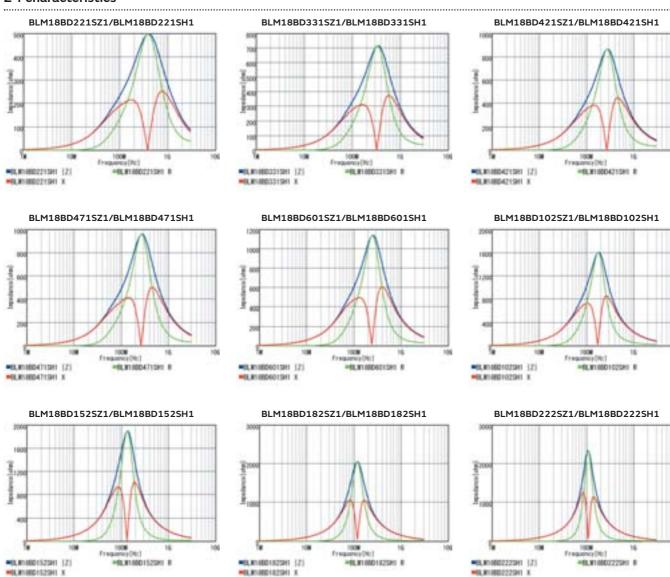


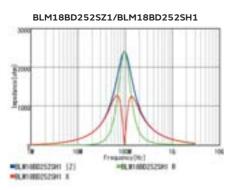


muRata



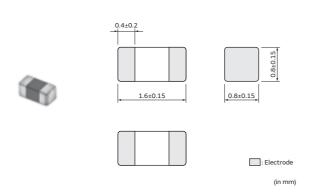
Z-f characteristics





BLM18BD(150°C available) Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
В	Bulk(Bag)	1000

Equivalent Circuit



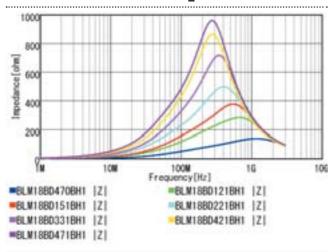
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

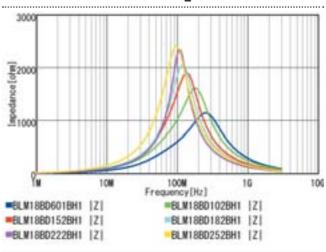
Part N	lumber	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
_	BLM18BD470BH1□	47Ω±25%	500mA	500mA	0.3Ω
_	BLM18BD121BH1□	120Ω±25%	300mA	300mA	0.4Ω
_	BLM18BD151BH1□	150Ω±25%	300mA	300mA	0.4Ω
_	BLM18BD221BH1□	220Ω±25%	250mA	250mA	0.45Ω
_	BLM18BD331BH1□	330Ω±25%	250mA	250mA	0.5Ω
_	BLM18BD421BH1□	420Ω±25%	250mA	250mA	0.55Ω
_	BLM18BD471BH1□	470Ω±25%	250mA	250mA	0.55Ω
_	BLM18BD601BH1	600Ω±25%	200mA	200mA	0.65Ω
_	BLM18BD102BH1□	1000Ω±25%	200mA	200mA	0.85Ω
_	BLM18BD152BH1□	1500Ω±25%	150mA	150mA	1.2Ω
_	BLM18BD182BH1□	1800Ω±25%	150mA	150mA	1.5Ω
_	BLM18BD222BH1□	2200Ω±25%	150mA	150mA	1.5Ω
-	BLM18BD252BH1□	2500Ω±25%	150mA	150mA	1.5Ω

Rated Current at 150°C: 10mA Operating Temp. Range: -55°C to 150°C

Z-f characteristics: BLM18BD_BH1 series

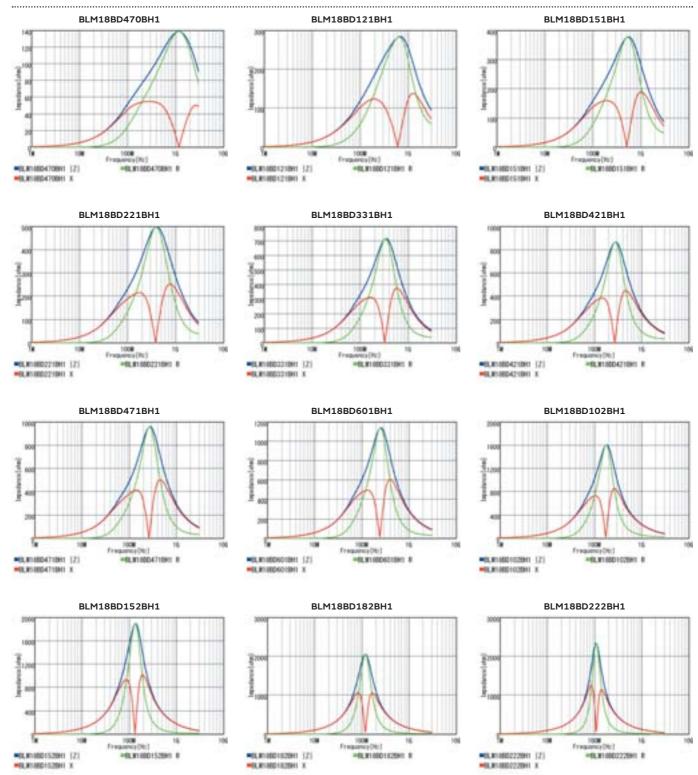


Z-f characteristics: BLM18BD_BH1 series



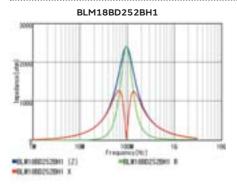


Z-f characteristics



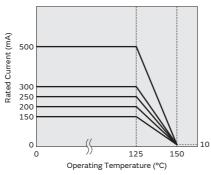
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Z-f characteristics



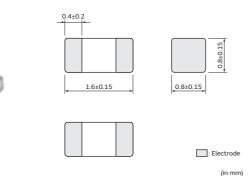
Derating of Rated Current

In operating temperature exceeding +125°C, derating of current is necessary for BLM18BD_BH1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM18HB/HD/HE/HG Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



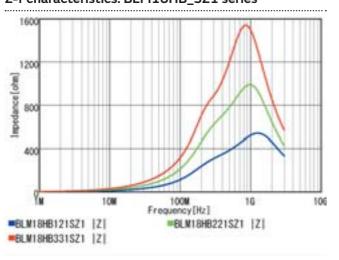
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

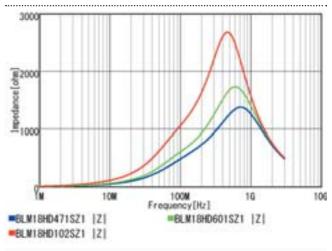
Part N	Number	Impedance	Impedance	Rated Current	Rated Current	DC
Infotainment	Powertrain/Safety	at 100MHz at 1GHz		at 85°C	at 125°C	Resistance (Max.)
BLM18HB121SZ1	_	120Ω±25%	500Ω±40%	200mA	200mA	0.5Ω
BLM18HB221SZ1	_	220Ω±25%	1100Ω±40%	100mA	100mA	0.8Ω
BLM18HB331SZ1	_	330Ω±25%	1600Ω±40%	50mA	50mA	1.2Ω
BLM18HD471SZ1	BLM18HD471SH1□	470Ω±25%	1000Ω(Typ.)	100mA	100mA	1.2Ω
BLM18HD601SZ1	BLM18HD601SH1	600Ω±25%	1200Ω(Typ.)	100mA	100mA	1.5Ω
BLM18HD102SZ1	BLM18HD102SH1□	1000Ω±25%	1700Ω(Typ.)	50mA	50mA	1.8Ω
BLM18HE601SZ1	BLM18HE601SH1	600Ω±25%	600Ω(Typ.)	800mA	600mA	0.25Ω
BLM18HE102SZ1	BLM18HE102SH1	1000Ω±25%	1000Ω(Typ.)	600mA	500mA	0.35Ω
BLM18HE152SZ1	BLM18HE152SH1	1500Ω±25%	1500Ω(Typ.)	500mA	400mA	0.5Ω
BLM18HG471SZ1	BLM18HG471SH1□	470Ω±25%	600Ω(Typ.)	200mA	200mA	0.85Ω
BLM18HG601SZ1	BLM18HG601SH1	600Ω±25%	700Ω(Typ.)	200mA	200mA	1Ω
BLM18HG102SZ1	BLM18HG102SH1□	1000Ω±25%	1000Ω(Typ.)	100mA	100mA	1.6Ω

Operating Temp. Range: -55°C to 125°C

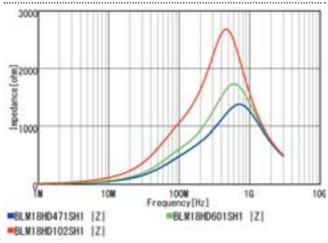
Z-f characteristics: BLM18HB_SZ1 series



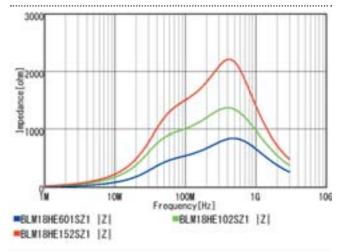
Z-f characteristics: BLM18HD_SZ1 series



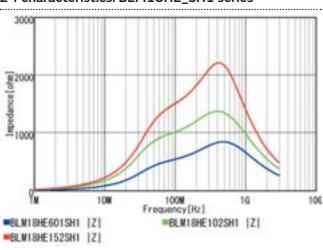
Z-f characteristics: BLM18HD_SH1 series



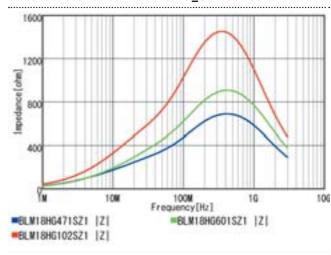
Z-f characteristics: BLM18HE_SZ1 series



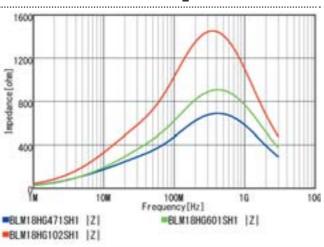
Z-f characteristics: BLM18HE_SH1 series



Z-f characteristics: BLM18HG_SZ1 series

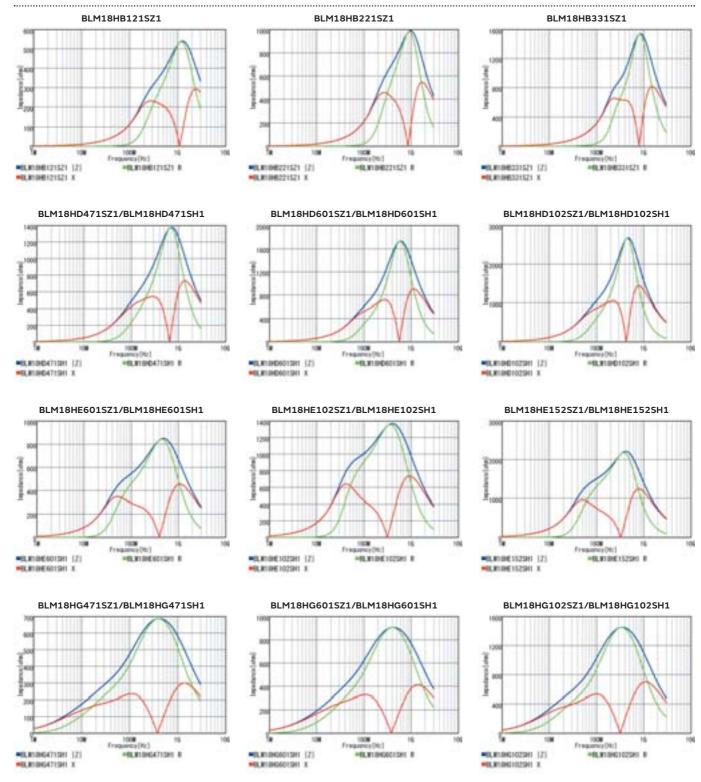


Z-f characteristics: BLM18HG_SH1 series



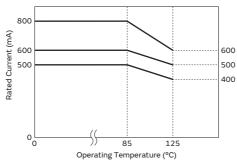
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Z-f characteristics



Derating of Rated Current

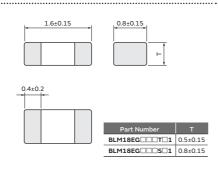
In operating temperature exceeding +85°C, derating of current is necessary for BLM18HE series. Please apply the derating curve shown in chart according to the operating temperature.



Output Chip Ferrite Bead SMD Type

BLM18EG Series 0603/1608(inch/mm)

Appearance/Dimensions



: Electrode

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



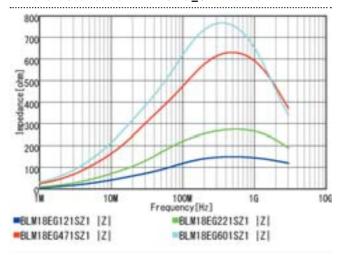
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

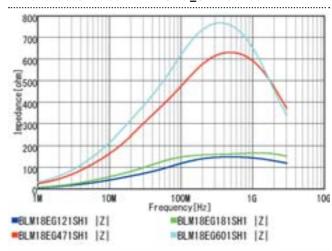
Part Number		Impedance	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 1GHz	at 85°C	at 125°C	(Max.)
BLM18EG121SZ1	BLM18EG121SH1□	120Ω±25%	145Ω(Typ.)	2A	1A	0.04Ω
_	BLM18EG181SH1□	180Ω±25%	240Ω(Typ.)	2A	1A	0.05Ω
BLM18EG221SZ1	_	220Ω±25%	260Ω(Typ.)	2A	1A	0.05Ω
BLM18EG471SZ1	BLM18EG471SH1□	470Ω±25%	550Ω(Typ.)	500mA	500mA	0.21Ω
BLM18EG601SZ1	BLM18EG601SH1□	600Ω±25%	700Ω(Typ.)	500mA	500mA	0.35Ω
BLM18EG101TZ1	BLM18EG101TH1	100Ω±25%	140Ω(Typ.)	2A	1A	0.045Ω
BLM18EG221TZ1	BLM18EG221TH1□	220Ω±25%	300Ω(Typ.)	1A	1A	0.15Ω
BLM18EG331TZ1	BLM18EG331TH1	330Ω±25%	450Ω(Typ.)	500mA	500mA	0.21Ω
BLM18EG391TZ1	BLM18EG391TH1□	390Ω±25%	520Ω(Typ.)	500mA	500mA	0.3Ω

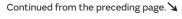
Operating Temp. Range: -55°C to 125°C

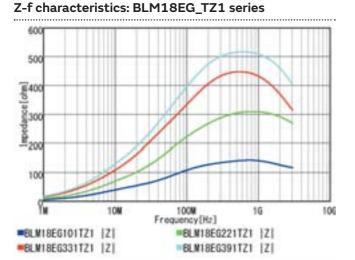
Z-f characteristics: BLM18EG_SZ1 series



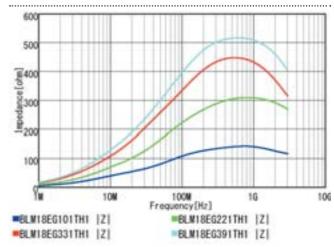
Z-f characteristics: BLM18EG_SH1 series

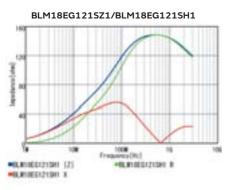


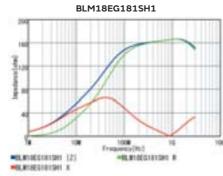


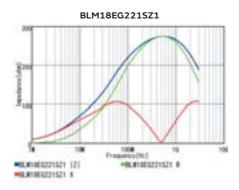


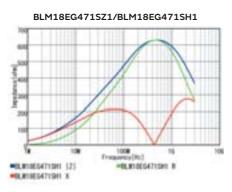
Z-f characteristics: BLM18EG_TH1 series

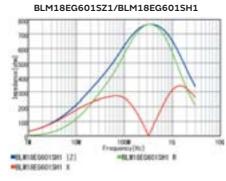


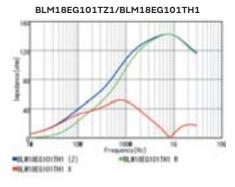


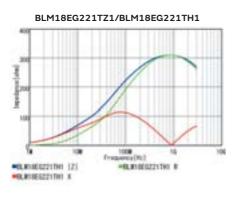


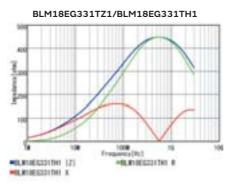


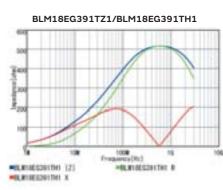












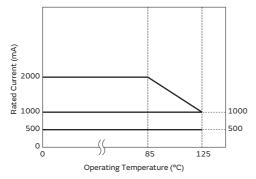
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Derating of Rated Current

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.

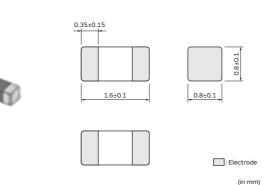
Derating of Rated Current



81

BLM18G Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Impedance	Rated Current	Rated Current	DC Resistance	Operating
Infotainment	Powertrain/Safety	at 100MHz	at 1GHz	at 85°C	at 125°C	(Max.)	Temp. Range
BLM18GG471SZ1	_	470Ω±25%	1800Ω±30%	200mA	200mA	1.3Ω	-55°C to 125°C

Z-f characteristics

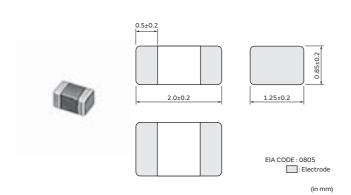
BLM18GG471SZ1

SMD Type

○ Chip Ferrite Bead SMD Type

BLM21PG Series 0805/2012(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



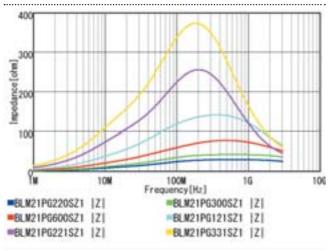
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

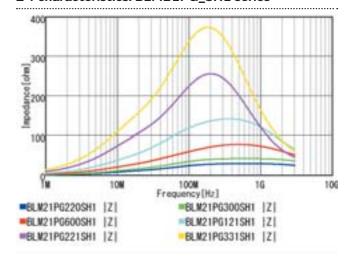
Part Number		Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
BLM21PG220SZ1□	BLM21PG220SH1□	22Ω±25%	6A	3.3A	0.009Ω	
BLM21PG300SZ1□	BLM21PG300SH1□	30Ω(Typ.)	4A	2.3A	0.014Ω	
BLM21PG600SZ1	BLM21PG600SH1	60Ω±25%	3.5A	1.9A	0.02Ω	
BLM21PG121SZ1	BLM21PG121SH1	120Ω±25%	3A	1.55A	0.03Ω	
BLM21PG221SZ1	BLM21PG221SH1□	220Ω±25%	2A	1.25A	0.045Ω	
BLM21PG331SZ1	BLM21PG331SH1	330Ω±25%	1.5A	1A	0.07Ω	

Operating Temp. Range: -55°C to 125°C

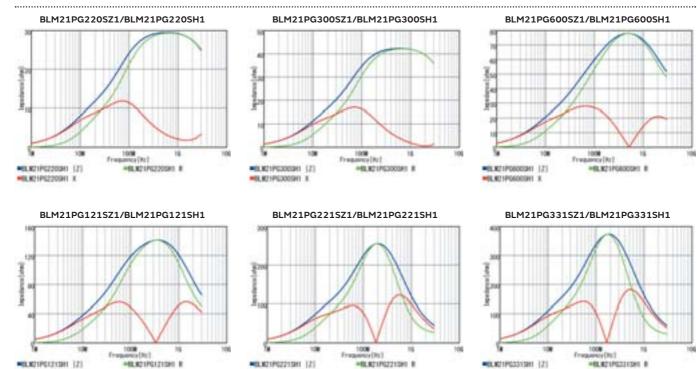
Z-f characteristics: BLM21PG_SZ1 series



Z-f characteristics: BLM21PG_SH1 series



Z-f characteristics



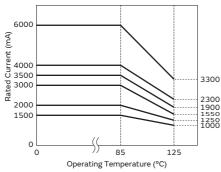
■K,K21PG22119H1 X

■K,#21P02219H X

Derating of Rated Current

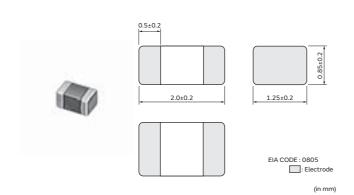
■0.821PG121901 X

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.



BLM21PG(150°C available) Series 0805/2012(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



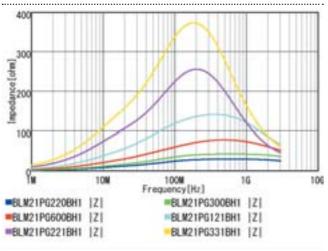
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

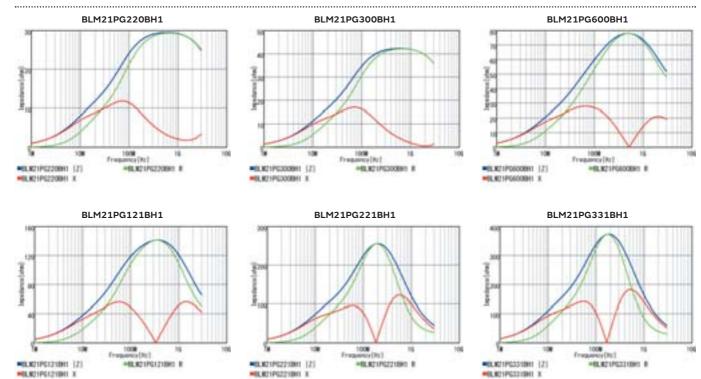
Part I	Part Number		Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
_	BLM21PG220BH1□	22Ω±25%	3.3A	3.3A	0.009Ω	
_	BLM21PG300BH1□	30Ω(Typ.)	2.3A	2.3A	0.014Ω	
_	BLM21PG600BH1□	60Ω±25%	1.9A	1.9A	0.02Ω	
_	BLM21PG121BH1□	120Ω±25%	1.55A	1.55A	0.03Ω	
_	BLM21PG221BH1□	220Ω±25%	1.25A	1.25A	0.045Ω	
_	BLM21PG331BH1□	330Ω±25%	1A	1A	0.07Ω	

Rated Current at 150°C: 10mA Operating Temp. Range: -55°C to 150°C

Z-f characteristics: BLM21PG_BH1 series



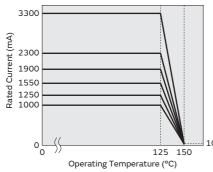
Z-f characteristics



muRata

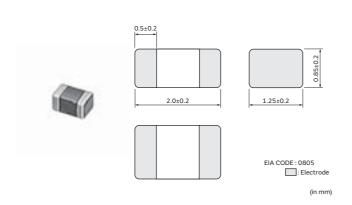
Derating of Rated Current

In operating temperature exceeding +125°C, derating of current is necessary for BLM21PG_BH1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM21SN Series 0805/2012(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



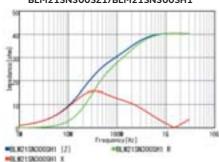
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current Rated Current	DC Resistance	Operating
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	Temp. Range
BLM21SN300SZ1	BLM21SN300SH1	30Ω±10Ω	8.5A	6A	0.004Ω	-55°C to 125°C

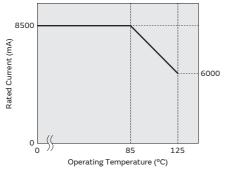
Z-f characteristics

BLM21SN300SZ1/BLM21SN300SH1



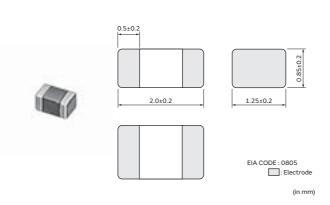
Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLM21SN series. Please apply the derating curve shown in chart according to the operating temperature.



BLM21AG Series 0805/2012(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



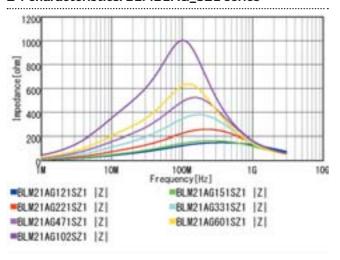
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

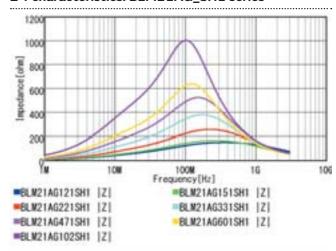
Part N	lumber	Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
BLM21AG121SZ1	BLM21AG121SH1□	120Ω±25%	1A	1A	0.09Ω	
BLM21AG151SZ1	BLM21AG151SH1□	150Ω±25%	1A	1A	0.09Ω	
BLM21AG221SZ1	BLM21AG221SH1	220Ω±25%	900mA	900mA	0.12Ω	
BLM21AG331SZ1	BLM21AG331SH1	330Ω±25%	800mA	800mA	0.15Ω	
BLM21AG471SZ1	BLM21AG471SH1□	470Ω±25%	700mA	700mA	0.18Ω	
BLM21AG601SZ1	BLM21AG601SH1	600Ω±25%	700mA	700mA	0.2Ω	
BLM21AG102SZ1	BLM21AG102SH1	1000Ω±25%	600mA	600mA	0.27Ω	

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM21AG_SZ1 series

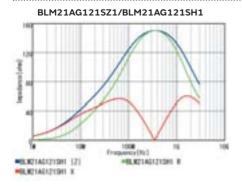


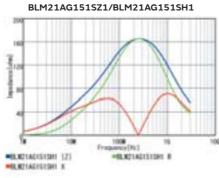
Z-f characteristics: BLM21AG_SH1 series

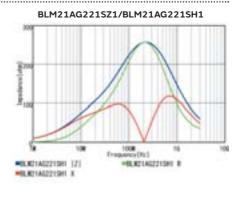


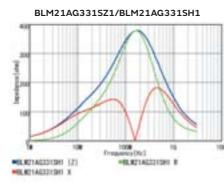


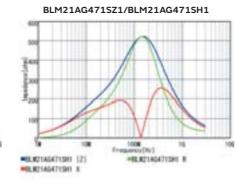
Z-f characteristics

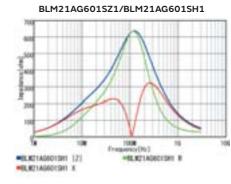


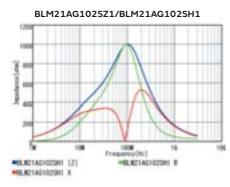






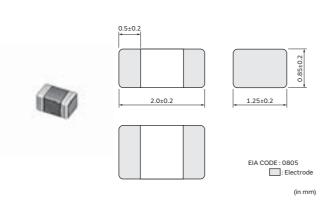






BLM21AG(150°C available) Series 0805/2012(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



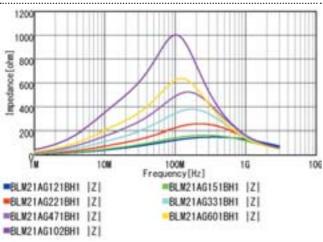
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part N	Number	Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
_	BLM21AG121BH1□	120Ω±25%	1A	1A	0.09Ω	
_	BLM21AG151BH1□	150Ω±25%	1A	1A	0.09Ω	
_	BLM21AG221BH1□	220Ω±25%	900mA	900mA	0.12Ω	
_	BLM21AG331BH1	330Ω±25%	800mA	800mA	0.15Ω	
_	BLM21AG471BH1	470Ω±25%	700mA	700mA	0.18Ω	
_	BLM21AG601BH1	600Ω±25%	700mA	700mA	0.2Ω	
_	BLM21AG102BH1	1000Ω±25%	600mA	600mA	0.27Ω	

Rated Current at 150°C: 10mA Operating Temp. Range: -55°C to 150°C

Z-f characteristics: BLM21AG_BH1 series



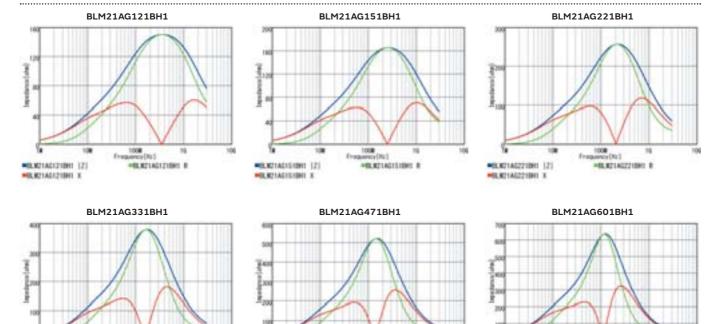


HELECTAGOSTERS B

■K.#21AGGC1BH1 X

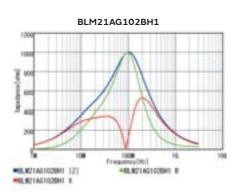
Continued from the preceding page.

Z-f characteristics



-BLX21AG471EHI B

■KRZ1AG471BHI X



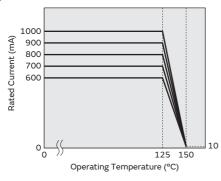
-BLX21ACCUSES B

Derating of Rated Current

■0.X21A0331BH1 [2]

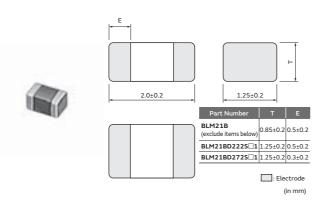
■EXCHAGGINER X

In operating temperature exceeding $+125^{\circ}$ C, derating of current is necessary for BLM21AG_BH1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM21BB/BD Series 0805/2012(inch/mm)

Appearance/Dimensions



Packaging

All except for BLM21BD222SZ1/BLM21BD222SH1/BLM21BD272SZ1/BLM21BD272SH1

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

BLM21BD222SZ1/BLM21BD222SH1/BLM21BD272SZ1/BLM21BD272SH1 only

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	10000
L	ø180mm Embossed Tape	3000
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

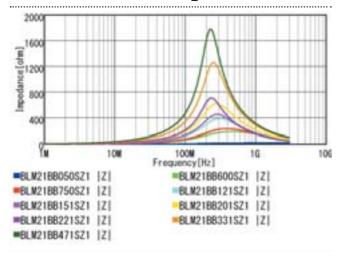
	Number	Impedance	Rated Current	Rated Current	DC
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	Resistance (Max.)
BLM21BB050SZ1	BLM21BB050SH1	5Ω±25%	1A	1A	0.02Ω
BLM21BB600SZ1	BLM21BB600SH1	60Ω±25%	800mA	800mA	0.13Ω
BLM21BB750SZ1	BLM21BB750SH1	75Ω±25%	700mA	700mA	0.16Ω
BLM21BB121SZ1	BLM21BB121SH1	120Ω±25%	600mA	600mA	0.19Ω
BLM21BB151SZ1	BLM21BB151SH1	150Ω±25%	600mA	600mA	0.21Ω
BLM21BB201SZ1	BLM21BB201SH1	200Ω±25%	500mA	500mA	0.26Ω
BLM21BB221SZ1	BLM21BB221SH1	220Ω±25%	500mA	500mA	0.26Ω
BLM21BB331SZ1	BLM21BB331SH1	330Ω±25%	400mA	400mA	0.33Ω
BLM21BB471SZ1	BLM21BB471SH1	470Ω±25%	400mA	400mA	0.4Ω
BLM21BD121SZ1	BLM21BD121SH1	120Ω±25%	350mA	350mA	0.25Ω
BLM21BD151SZ1	BLM21BD151SH1	150Ω±25%	350mA	350mA	0.25Ω
BLM21BD221SZ1	BLM21BD221SH1□	220Ω±25%	350mA	350mA	0.25Ω
BLM21BD331SZ1	BLM21BD331SH1	330Ω±25%	300mA	300mA	0.3Ω
BLM21BD421SZ1	BLM21BD421SH1□	420Ω±25%	300mA	300mA	0.3Ω
BLM21BD471SZ1	BLM21BD471SH1	470Ω±25%	300mA	300mA	0.35Ω
BLM21BD601SZ1	BLM21BD601SH1	600Ω±25%	300mA	300mA	0.35Ω
BLM21BD751SZ1	BLM21BD751SH1	750Ω±25%	250mA	250mA	0.4Ω
BLM21BD102SZ1	BLM21BD102SH1	1000Ω±25%	250mA	250mA	0.4Ω
BLM21BD152SZ1	BLM21BD152SH1□	1500Ω±25%	250mA	250mA	0.45Ω
BLM21BD182SZ1	BLM21BD182SH1□	1800Ω±25%	250mA	250mA	0.5Ω
BLM21BD222TZ1	BLM21BD222TH1□	2200Ω±25%	200mA	200mA	0.6Ω
BLM21BD222SZ1	BLM21BD222SH1	2250Ω(Typ.)	250mA	250mA	0.6Ω
BLM21BD272SZ1	BLM21BD272SH1□	2700Ω±25%	200mA	200mA	0.8Ω

Operating Temp. Range: -55°C to 125°C

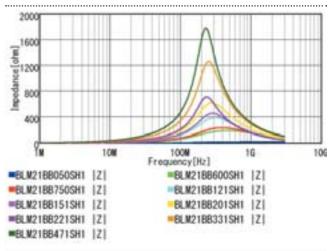
SMD Type

Continued from the preceding page.

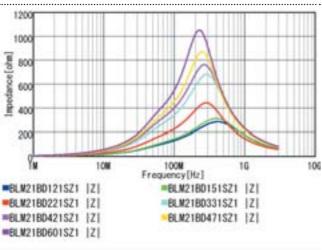
Z-f characteristics: BLM21BB_SZ1 series



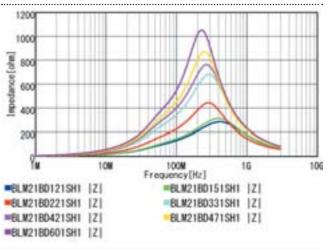
Z-f characteristics: BLM21BB_SH1 series



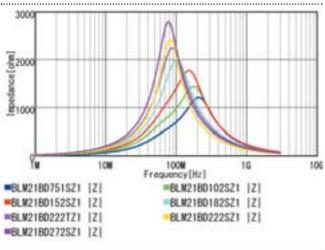
Z-f characteristics: BLM21BD_SZ1/TZ1 series



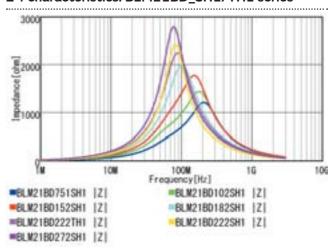
Z-f characteristics: BLM21BD_SH1/TH1 series



Z-f characteristics: BLM21BD_SZ1/TZ1 series



Z-f characteristics: BLM21BD_SH1/TH1 series

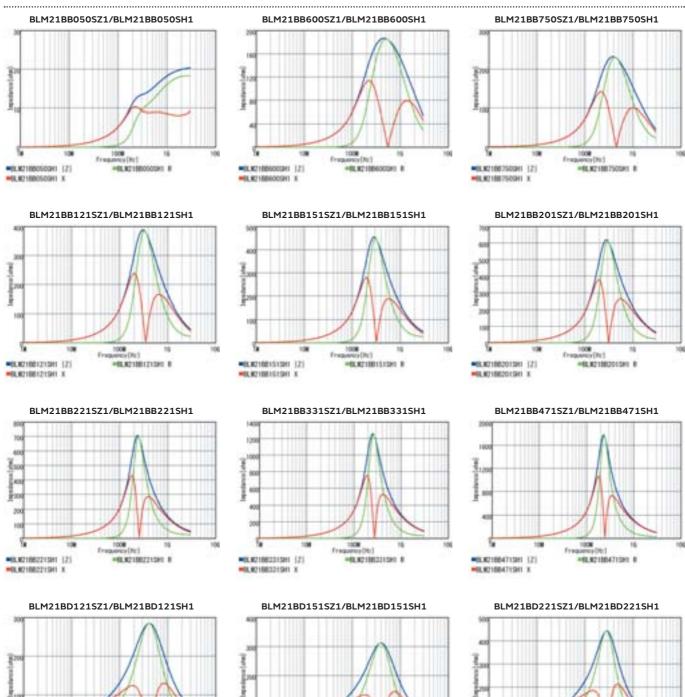


■8.821601335H1 [2] ■8.821601219H1 X

#6L821001713H1 8

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Z-f characteristics



Continued on the following page.

#6L821602213H1 8

■0.30216002215911 [2]

■01.82180021901 X

-6L82100151381 B

■0.301601513H1 [2]

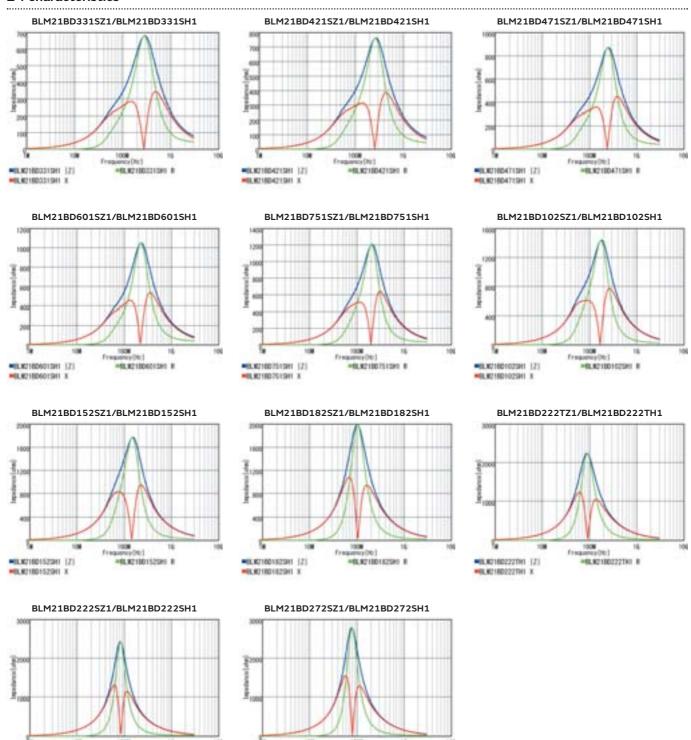
MILKYINDISTRII X

Z-f characteristics

■0.3021602223911 [Z]

■01.821800222941 X

*6L821002225H1 B



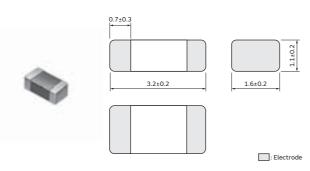
*6L821002775H1 B

■0.30210002725H1 [2]

■E.#2180272941 X

BLM31PG Series 1206/3216(inch/mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	10000
L	ø180mm Embossed Tape	3000
В	Bulk(Bag)	1000

Equivalent Circuit



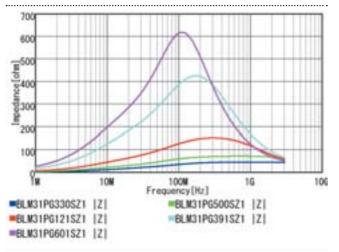
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

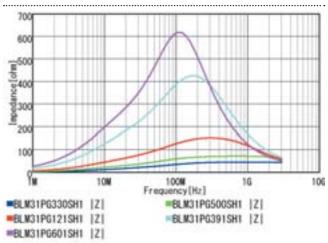
Part N	lumber	Impedance	Rated Current	Rated Current	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)
BLM31PG330SZ1	BLM31PG330SH1□	33Ω±25%	6A	3.5A	0.009Ω
BLM31PG500SZ1	BLM31PG500SH1	50Ω(Typ.)	3.5A	2.3A	0.015Ω
BLM31PG121SZ1	BLM31PG121SH1	120Ω±25%	3.5A	2A	0.02Ω
BLM31PG391SZ1	BLM31PG391SH1	390Ω±25%	2A	1.25A	0.05Ω
BLM31PG601SZ1	BLM31PG601SH1	600Ω±25%	1.5A	1A	0.08Ω

Operating Temp. Range: -55°C to 125°C

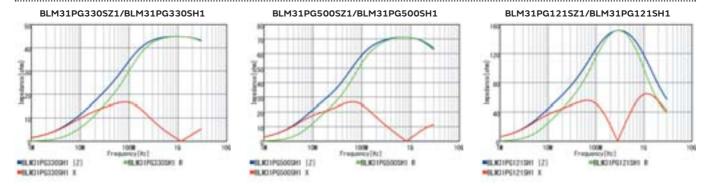
Z-f characteristics: BLM31PG_SZ1 series

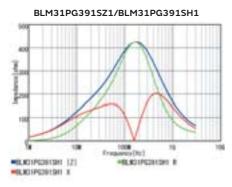


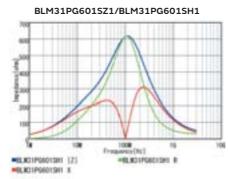
Z-f characteristics: BLM31PG_SH1 series



Z-f characteristics

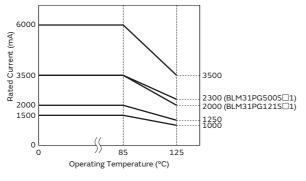






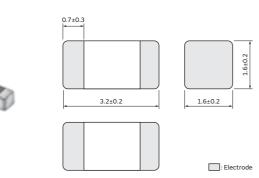
Derating of Rated Current

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.



BLM31KN Series 1206/3216(inch/mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
К	ø330mm Embossed Tape	8000
L	ø180mm Embossed Tape	2500
В	Bulk(Bag)	1000

Equivalent Circuit



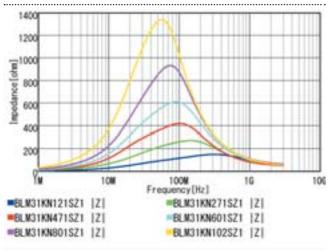
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

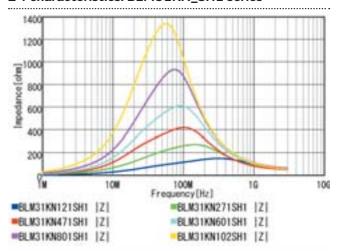
Part Number		Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
BLM31KN121SZ1	BLM31KN121SH1□	120Ω±25%	6A	4A	0.009Ω	
BLM31KN271SZ1	BLM31KN271SH1□	270Ω±25%	4.5A	3A	0.016Ω	
BLM31KN471SZ1	BLM31KN471SH1	470Ω±25%	4A	2.7A	0.02Ω	
BLM31KN601SZ1	BLM31KN601SH1	600Ω±25%	2.9A	2A	0.038Ω	
BLM31KN801SZ1	BLM31KN801SH1	800Ω±25%	2.5A	1.7A	0.05Ω	
BLM31KN102SZ1	BLM31KN102SH1	1000Ω±25%	2A	1.4A	0.075Ω	

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: BLM31KN_SZ1 series

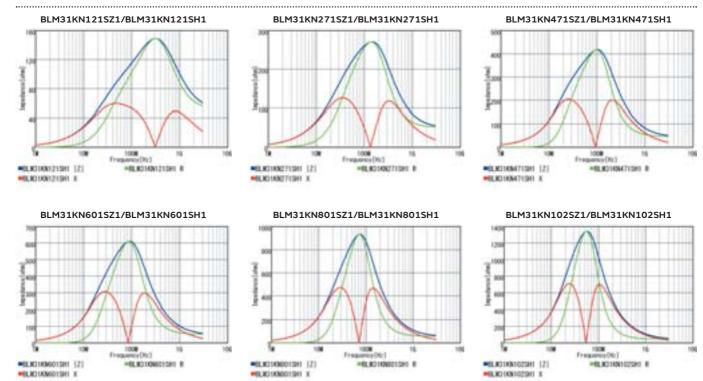


Z-f characteristics: BLM31KN_SH1 series



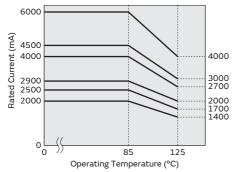


Z-f characteristics



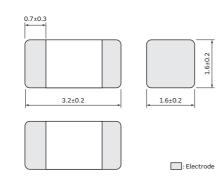
Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLM31KN series. Please apply the derating curve shown in chart according to the operating temperature.



BLM31KN(150°C available) Series 1206/3216(inch/mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
К	ø330mm Embossed Tape	8000
L	ø180mm Embossed Tape	2500
В	Bulk(Bag)	1000

Equivalent Circuit



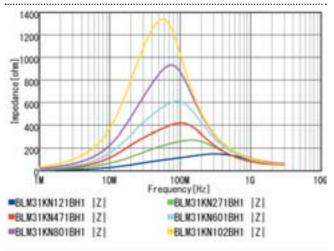
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

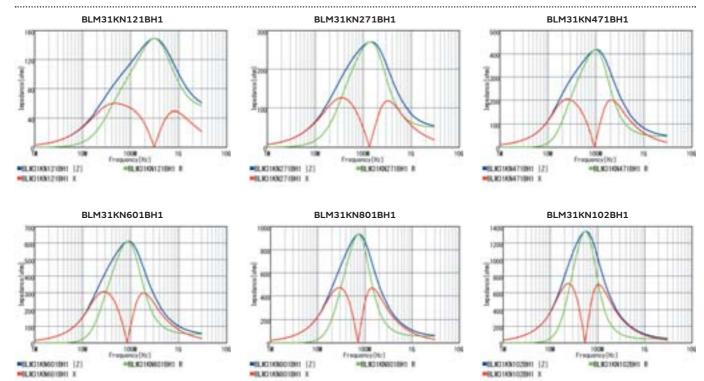
Part Number		Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
_	BLM31KN121BH1□	120Ω±25%	4A	4A	0.009Ω	
_	BLM31KN271BH1□	270Ω±25%	3A	3A	0.016Ω	
_	BLM31KN471BH1□	470Ω±25%	2.7A	2.7A	0.02Ω	
_	BLM31KN601BH1	600Ω±25%	2A	2A	0.038Ω	
_	BLM31KN801BH1	800Ω±25%	1.7A	1.7A	0.05Ω	
_	BLM31KN102BH1□	1000Ω±25%	1.4A	1.4A	0.075Ω	

Rated Current at 150°C: 10mA Operating Temp. Range: -55°C to 150°C

Z-f characteristics: BLM31KN_BH1 series

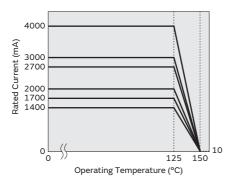


Z-f characteristics



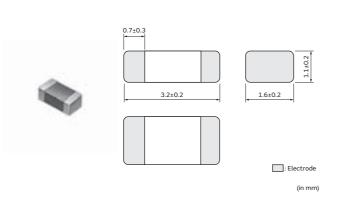
Derating of Rated Current

In operating temperature exceeding +125°C, derating of current is necessary for BLM31KN_BH1 series. Please apply the derating curve shown in chart according to the operating temperature.



BLM31SN Series 1206/3216(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Tape	3000
В	Bulk(Bag)	1000

Equivalent Circuit



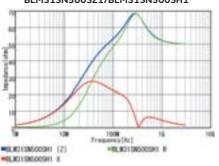
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance Rated Current	Rated Current	DC Resistance	Operating	
Infotainment	Powertrain/Safety	at 100MHz at 85°C	at 125°C	(Max.)	Temp. Range	
BLM31SN500SZ1	BLM31SN500SH1	50Ω±12.5Ω	12A	10A	0.0016Ω	-55°C to 125°C

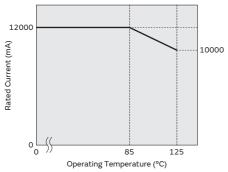
Z-f characteristics

BLM31SN500SZ1/BLM31SN500SH1



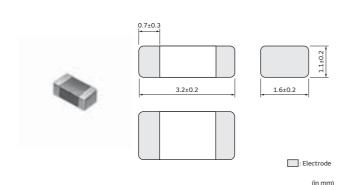
Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLM31SN series. Please apply the derating curve shown in chart according to the operating temperature.



BLM31AJ Series 1206/3216(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	10000
L	ø180mm Embossed Tape	3000
В	Bulk(Bag)	1000

Equivalent Circuit

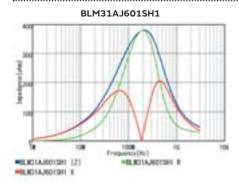


(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

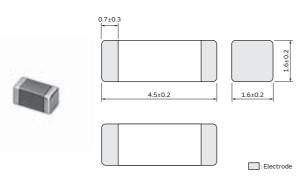
Part Number		Impedance Rated Current		Rated Current	DC Resistance	Operating
Infotainment	Powertrain/Safety	at 100MHz at 85°C	at 125°C	(Max.)	Temp. Range	
_	BLM31AJ601SH1□	600Ω±25%	200mA	200mA	0.9Ω	-55°C to 125°C

Z-f characteristics



BLM41PG Series 1806/4516(inch/mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	8000
L	ø180mm Embossed Tape	2500
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

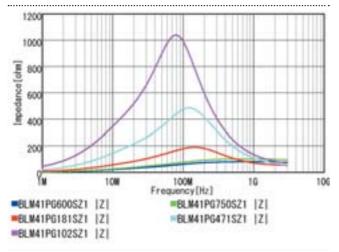
Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	Rated Current	DC Resistance	
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	
BLM41PG600SZ1	BLM41PG600SH1	60Ω(Typ.)	6A	3.7A	0.009Ω	
BLM41PG750SZ1	BLM41PG750SH1□	75Ω(Typ.)	3.5A	2.45A	0.015Ω	
BLM41PG181SZ1	BLM41PG181SH1□	180Ω±25%	3.5A	2.1A	0.02Ω	
BLM41PG471SZ1	BLM41PG471SH1□	470Ω±25%	2A	1.35A	0.05Ω	
BLM41PG102SZ1	BLM41PG102SH1	1000Ω±25%	1.5A	1A	0.09Ω	

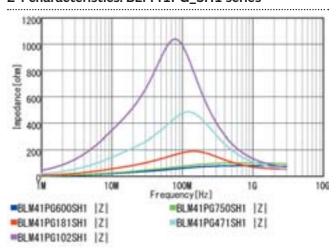
muRata

Operating Temp. Range: -55°C to 125°C

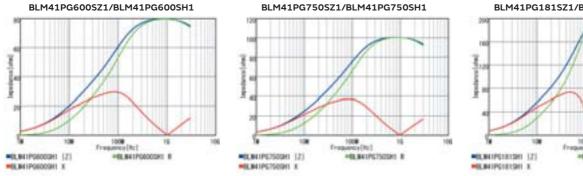
Z-f characteristics: BLM41PG_SZ1 series

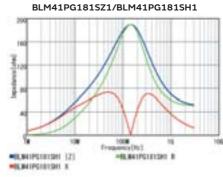


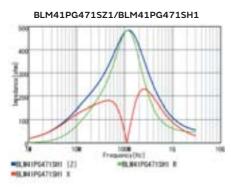
Z-f characteristics: BLM41PG_SH1 series

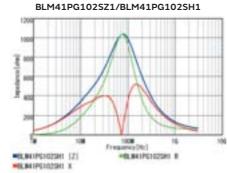


Z-f characteristics



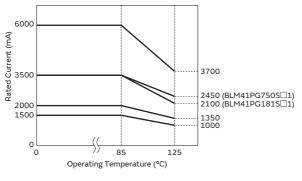






Derating of Rated Current

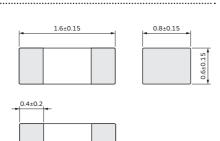
In operating temperature exceeding +85°C, derating of current is necessary for BLM41PG series. Please apply the derating curve shown in chart according to the operating temperature.



Chip Power Bead SMD Type

BLE18PS Series 0603/1608(inch/mm)

Appearance/Dimensions



: Electrode

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
J	ø330mm Paper Tape	10000
В	Bulk(Bag)	1000

Equivalent Circuit



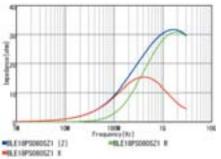
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance Rated Current		Rated Current	DC Resistance	Operating
Infotainment	Powertrain/Safety	at 100MHz	at 85°C	at 125°C	(Max.)	Temp. Range
BLE18PS080SZ1	_	8.5Ω±25%	8A	5A	0.004Ω	-55°C to 125°C

Z-f characteristics

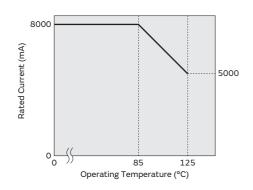
BLE18PS080SZ1



Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BLE18PS series.

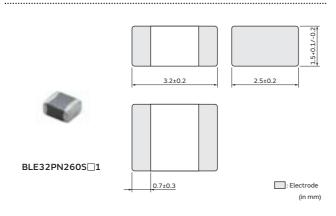
Please apply the derating curve shown in chart according to the operating temperature.



Chip Power Bead SMD Type

BLE32PN Series 1210/3225(inch/mm)

Appearance/Dimensions



Packaging

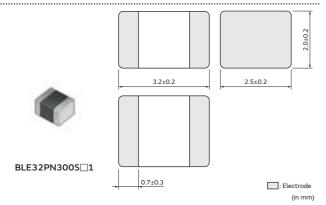
Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	7000
L	ø180mm Embossed Tape	1500
В	Bulk(Bag)	1000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

Appearance/Dimensions



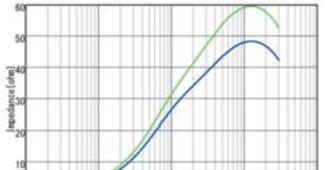
Rated Value (□: packaging code)

Part Number		Impedance	Rated Current at 85°C	Rated Current at 125°C	DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	Rated Current at 65 C	Rated Current at 125°C	(Max.)
BLE32PN260SZ1	BLE32PN260SH1	26Ω±10Ω	10A	10A	1.6mΩ
BLE32PN300SZ1	BLE32PN300SH1	30Ω±10Ω	10A	10A	1.6mΩ

Operating Temp. Range: -55°C to 125°C

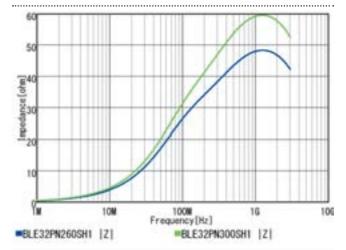
Z-f characteristics: BLE32PN_SZ1 series

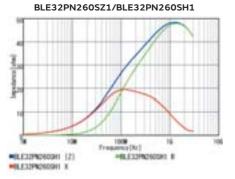
Continued from the preceding page.



100M Frequency[Hz]

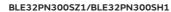
Z-f characteristics: BLE32PN_SH1 series





10M

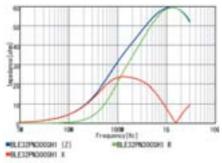
■BLE32PN260SZ1 |Z|



106

16

BLE32PN300SZ1 |Z|





Rating

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.

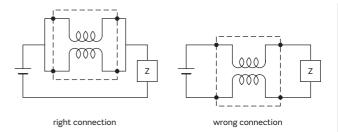
Soldering and Mounting

1. Self-heating

Please pay special attention when mounting chip ferrite beads BLM AX/P/K/S series chip power beads BLE 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.

Terminal Connection (BLT)
 The terminations shall be connected correctly.
 The product consists of two coils.
 In order to provide the appropriate performance, two terminations shall be connected to the single power line and used as one coil.

If the terminations are connected to the power line and ground line separately, serious problems such as open circuit, short circuit, or flames might be caused due to extreme heat generation.





Storage and Operating Conditions

<Operating Environment>

Do not use products in the corrodible atmosphere such as acidic gases, alkaline gases, chlorine, sulfur gases, organic gases. (the sea breeze, Cl₂, H₂S, NH₃, SO₂, NO₂,etc)

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. Mounting on-boad with Conductive Glue
BLM18AG WH is designed for conductive glue
mounting method. Please refer to Mounting infomation.

4. 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.

Chip Ferrite Bead (BL□ Series) ∴ Caution/Notice

Continued from the preceding page.

Handling

1. Resin Coating

Using resin for coating/molding products may affect the products performance.

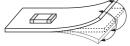
So please pay careful attention in selecting resin. Prior to use, please make the reliability evaluation with the product mounted in your application set.

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







3. Mounting Density

Add special attention to radiating heat of products when mounting the inductor near the products with heating. The excessive heat by other products may cause deterioration at joint of this product with substrate.

1. Standard Land Pattern Dimensions

Land Pattern + Solder Resist

BLM21

Land Pattern Solder Resist

1.2

24

(in mm)

1.25

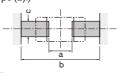
Standard Land Dimensions (1)

BLE18 BLE32 BLM03 **BLM15 BLM18 BLM21 BLM31 BLM41**

Series

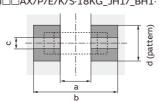
Reflow and Flow

BLM Series (Except for type (2).) *Please refer to (1).



BLE18PS-32PN-BLM AX/P/E/K/S-18KG_JH1/_BH1-

AG_BH1·BD_BH1 *Please refer to (2)



Туре Soldering b BLM03 Reflow 0.25 8.0 0.3 BLM15 Reflow 0.4 1.2 0.5 Flow (except 18G) 0.8 2.5 BLM18 0.7 Reflow 0.7 2.0 Flow 1.1 3.5 0.95

■ Except for BLM03AX·PG·PX·EB/15AX·PD·PG·PX/18PG_S□1·KG_S□1· $\mathsf{KG_T} \square 1 \cdot \mathsf{SG_T} \square 1 \cdot \mathsf{SN_T} \square 1 \cdot 18 \mathsf{KG_JH1/_BH1} \cdot \mathsf{AG_BH1} \cdot \mathsf{BD_BH1/21PG} \cdot$ SN. And BLM03/15/18G is specially adapted for reflow soldering.

BLM18A_WH series is designed for conductive glue mounting method,

Reflow

not for normal soldering method.

(2)	l.	a b	-		iormal solderir ontact us for ap		oa. mounting method for BLM18A_W	VH series
	Rated					Land	Pad Thickness and Dimens	sion d
Туре	Current (A)	Soldering	a	b	С	18µm	35µm	70µm
BLE18PS	8	Flow	0.8	2.5	0.7	-	6.4	3.3
		Reflow	0.7	2.0			4.0 (Tomporatura 9E9C or loss)	_
BLE32PN	10	Flow/Reflow	2.2	4.4	2.05	-	4.0 (Temperature 85°C or less) 8.0 (Temperature 125°C or less)	
BLM03AX	0.9max.					0.3	0.3	0.3
BLM03P□ BLM03EB	1.8max.	Reflow	0.25	0.8	0.3	1.2	0.7	0.3
BLM15AX	1.5max.					0.5	0.5	0.5
BLM15PD	2.2max.	Reflow	0.4	1.2	0.5	1.2	0.7	0.5
BLM15PG BLM15PX	3.0max.					2.4	1.2	0.5
DI M40D0 5 4	0.5-1.5					0.7	0.7	0.7
BLM18PG_S□1 BLM18KG_S□1	1.7-2.5					1.2	0.7	0.7
BLM18KG_T 1	3-4	Flow/Reflow	Flow 0.8	Flow 2.5	Flow 0.7	2.4	1.2	0.7
BLM18SG_T 1	5-6		Reflow 0.7	Reflow 2.0	Reflow 0.7	6.4	3.3	1.65
BLM18SN_T□1	8					_	6.4	3.3
	1.0max.					0.7	0.7	0.7
BLM18KG_JH1 BLM18KG_BH1	1.5max.	Flow	0.8	2.5	0.7	1.2	0.7	0.7
BLM18AG_BH1	2.5max.	D. G.	0.7			2.4	1.2	0.7
BLM18BD_BH1	4.0max.	Reflow				6.4	3.3	1.65
	1.5					1.0	1.0	1.0
	2		Flow 1.1 Reflow 1.2	Flow 3.5	Flow 0.95	1.2	1.0	1.0
BLM21PG	3-4	Flow/Reflow		Reflow 2.4	Reflow 1.25	2.4	1.2	1.0
	6					6.4	3.3	1.65
	l	Flow	1.1	3.5	0.95			
BLM21SN	6-8.5	Reflow	1.2	2.4	1.25	-	6.8	3.4
	1.5-2					1.2	1.2	1.2
BLM31PG	3.5	Flow/Reflow	Flow 2.4 Reflow 2	Flow 4.7 Reflow 4.3	Flow 1.2 Reflow 1.8	2.4	1.2	1.2
	6		Renow 2	Renow 4.5	Renow 1.6	6.4	3.3	1.65
	2					1.2	1.2	1.2
BLM31KN_S□1	2.5-2.9					2.4	1.2	1.2
	4-6	- 6				6.4	3.3	1.65
	1.4	Reflow	Reflow 2	Reflow 4.3	Reflow 1.8	1.2	1.2	1.2
BLM31KN_B□1	1.7-2.0					2.4	1.2	1.2
	2.7-4					6.4	3.3	1.65
BLM31SN	10-12	Flow/Reflow	Flow 2.4 Reflow 2	Flow 4.7 Reflow 4.3	Flow 1.2 Reflow 1.8	-	9.8	4.9
	1.5-2					1.2	1.2	1.2
BLM41PG	3.5	Flow/Reflow	1.2	6.0	3.0	2.4	1.2	1.2
	6					6.4	3.3	1.65
- About land pad thickn	ess of BLE?	22DN please note t	ho uppor limit	of the tempe	raturo		1	-

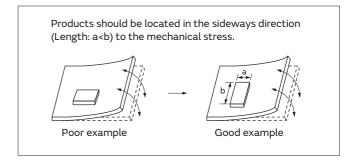
- About land pad thickness of BLE32PN, please note the upper limit of the temperature.
- Do not apply narrower pattern than listed above to BLMppAX/P/K/S. Narrow pattern can cause excessive heat or open circuit.



Continued from the preceding page.

PCB Warping

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



2. Solder Paste Printing and Adhesive Application

When reflow soldering the chip ferrite beads and bead inductor 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.

(in mm)

Series	Solder Paste Printing					
BLM BLE	 ●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: 100-150µm: BLM03 100-200µm: BLM15/18/21/31/41/BLE18/32 					

3. Standard Soldering Conditions

(1) Soldering Methods

Use flow and reflow soldering methods only.
Use standard soldering conditions when soldering chip ferrite beads and bead inductor.

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:

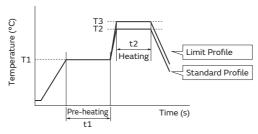
- Use Rosin-based flux.
 - In case of using RA type solder, products should be cleaned completely with no residual flux.
- Do not use strong acidic flux (with chlorine content exceeding 0.20wt%)
- Do not use water-soluble flux.

For additional mounting methods, please contact Murata.

Continued from the preceding page.

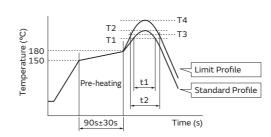
(2) Soldering Profile

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



	Pre-heating —		St	andard Profile	•		Limit Profile	
Series			Hea	ting	Cycle	Hea	ting	Cycle
	Temp. (T1)	Time. (t1)	Temp. (T2)	Time. (t2)	of Flow	Temp. (T3)	Time. (t2)	of Flow
BLM (Except for BLM03/15/18G/18AG_W/31KN) BLE	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)



Standard Profile				Limit Profile					
Series	Heating		Peak	Cycle	Heating		Peak	Cycle	
	Temp. (T1)	Time. (t1)	Temperature (T2)	of Reflow	Temp. (T3)	Time. (t2)	Temperature (T4)	of Reflow	
BLM (Except for BLM18AG_W) BLE	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.

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.

Continued from the preceding page.

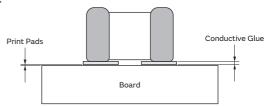
4. Mounting on-board with Conductive Glue of BLM18AG□□□WH1

Please adhere rigidly to the condition below which shows the method of mounting with conductive glue.

Please coat print pads with conductive glue using metal mask and metal squeegee, and then mount our products on the substrates with a mount machine or human hand.

the substrates with a mount machine or human hand. Please put the substrates into an oven (140 to 150°C) for 30 minutes in order to cure the adhesive.

Please check whether the chips and the substrates are connected with the conductive glue or not and there is no electrical short of the conductive glue.



1. Board	Ceramic Board or Alumina Board
2. Thickness of Glue	30 to 50μm
3. Recommended Conductive Glue	PC3000 (Manufactured by Heraeus)

5. 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.

Do not clean BLM18AG __\WH1 series. Before cleaning, please contact Murata engineering.

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

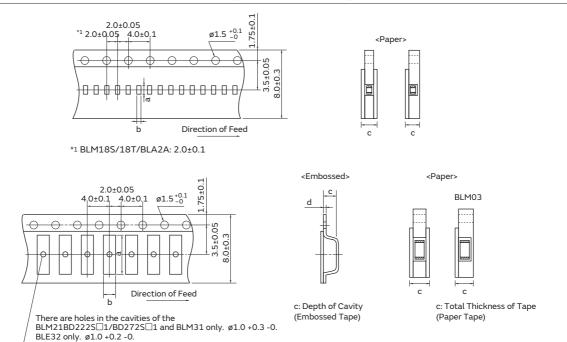
- (4) Ensure that flux residue is completely removed.

 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.

For additional cleaning methods, please contact Murata engineering.

Chip Ferrite Bead (BL□ Series) Packaging

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



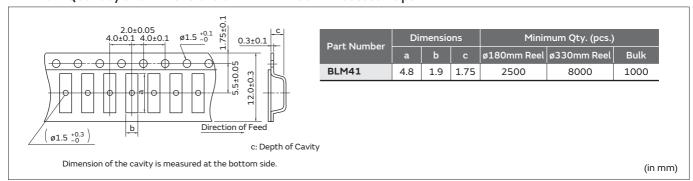
Dimension of the cavity of embossed tape is measured at the bottom side.

	Dimensions -				Minimum Qty. (pcs.)					
Part Number		Dimensions				nm Reel	ø330mm Reel			
	a	b	С	d	Paper Tape	Embossed Tape	Paper Tape	Embossed Tape	Bulk	
BLM03	0.70 (except 03H/03E)	0.40 (except 03H/03E)	0.55 max.	-	15000	-	50000	-	1000	
BLM15	1.15	0.65	0.8 max.	-	10000	-	50000	-	1000	
BLM18A/B/P/H/G	1.85	1.05	1.1 max. (except JH/TH/TZ)	-	4000	-	10000	-	1000	
BLM18EG/KG_T□	1.85	1.05	0.85 max.		4000	-	10000	-	1000	
BLM18EG/KG_S□		1.05	1.1 max.	-						
BLM18S	1.85	1.05	0.90 max.	-	10000	-	30000	-	1000	
BLM21	2.25	1.45	1.1 max.	-	4000	-	10000	-	1000	
BLM31	3.5	1.9	1.3	0.2	-	3000	-	10000	1000	
BLM21BD222S\(\Backslash 1/272S\(\Backslash 1	2.25	1.45	1.3	0.2	-	3000	-	10000	1000	
BLE18PS080S□1	1.85	1.05	0.85	-	4000	-	10000	-	1000	
BLE32PN260S□1	3.5	2.8	1.75	0.25		1500		7000	1000	
BLE32PN300S□1	3.5	2.8	2.3	0.25	-	1500	-	7000	1000	
BLM31KN_S□1/B□1	3.5	1.9	1.75	0.2	-	2500	-	8000	1000	

- BLM03H/03E. Dimensions a: 0.66, b: 0.36.
- BLM18_JH/TH/TZ. Dimensions c: 0.85 max.

(in mm)

Minimum Quantity and Dimensions of 12mm Width Embossed Tape



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



Part Numbering

Chip EMIFIL® for Automotive LC Combined

1Product ID

Product ID	
NF	Chip EMIFIL®

2Structure

Code	Structure
L	Multilayer, LC Combined Type
E	Block, LC Combined Type

3Dimensions (LxW)

Code	Dimensions (LxW)	Size Code (inch)
18	1.6x0.8mm	0603
31	3.2x1.6mm	1206
61	6.8x1.6mm	2706

4 Features

Code	Features			
HT	F Atti	Powertrain, Safety, T Circuit		
ZT	For Automotive	Infotainment, T Circuit		

6Cut-off Frequency (**NFL** Series)

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

5Capacitance (**NFE** Series)

Expressed by three figures. The unit is in pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

6Characteristics (NFL Series)

Code	Characteristics
Н	Cut-off Frequency

6Characteristics (**NFE** Series)

Code	Capacitance Temperature Characteristics	
С	±20%, ±22%	
D	+20/-30%, +22/-33%	
F	+30/-80%, +22/-82%	
R	±15%	
U	-750 ±120ppm/ °C	
Z	Other	

Rated Voltage

Code	Rated Voltage
1A	10V
1E	25V
2A	100V

8 Electrode

Code	Electrode	Series
3	Sn Plating	NFL
9	Others	NFE

Code	Packaging	Series
К	Embossed Taping (ø330mm Reel)	NFE
L	Embossed Taping (ø180mm Reel)	NFE
В	Bulk	NFL18/NFE
D	Paper Taping (ø180mm Reel)	NFL18

Chip EMIFIL® for Automotive

(Part Number)



Product ID

Product ID	
NF	Chip EMIFIL®

2Structure

Code	Structure
Z	Inductor Type

3Dimensions (LxW)

Code	Dimensions (LxW)	Size Code (inch)
18	1.6x0.8mm	0603
32	3.2x2.5mm	1210
5B	5.0x5.0mm	2020

4 Features

Code	Features
SM	For Audio Lines Multilayer Type
BW	For LED Lines Wire Wound Type

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 that follow the two figures.

6Inductance Tolerance

Code	Features
s	For General Use (Sn Plating)
Н	For General Use (LF Solder)*1
L	For General Use (LF Solder)
	·

 $^{^{*1}}$ NFZ32BW_H \square 1 only.

Category

Code	Category	
z	For Automotive	Infotainment

8 Number of Circuits

Code	Number of Circuits
1	1 Circuit

Specification

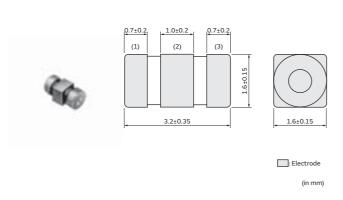
Code	Specification		
0	Standard Type		
1	Low Rdc Type		

Code	Packaging	Series		
K	K Embossed Taping (ø330mm Reel)			
L	Embossed Taping (ø180mm Reel)	NFZ32/5B		
В	Bulk	NFZ18		
D	Paper Taping (ø180mm Reel)	NFZ18		

Feed Through Chip EMI Filters SMD Type

NFE31ZT Series 1206/3216(inch/mm)

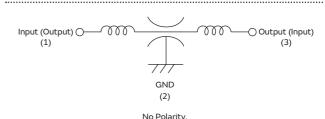
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	2000
K	ø330mm Embossed Taping	8000
В	Packing in Bulk	500

Equivalent Circuit

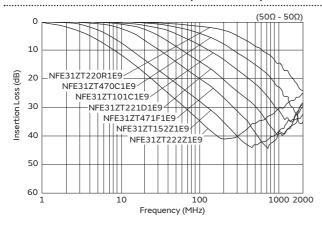


Rated Value (□: packaging code)

Part N	Part Number		Rated Current	Rated Voltage	Insulation	Operating
For Infotainment	For Powertrain/Safety	Capacitance	Rated Current	Rated Voltage	Resistance (min.)	Temperature Range
NFE31ZT220R1E9	_	22pF ±30%	6A	25Vdc	1000ΜΩ	-40°C to +85°C
NFE31ZT470C1E9	_	47pF 50/-20%	6A	25Vdc	1000ΜΩ	-40°C to +85°C
NFE31ZT101C1E9	_	100pF 80/-20%	6A	25Vdc	1000ΜΩ	-40°C to +85°C
NFE31ZT221D1E9	_	220pF 50/-20%	6A	25Vdc	1000ΜΩ	-40°C to +85°C
NFE31ZT471F1E9□	_	470pF 50/-20%	6A	25Vdc	1000ΜΩ	-40°C to +85°C
NFE31ZT152Z1E9	_	1500pF 50/-20%	6A	25Vdc	1000ΜΩ	-40°C to +85°C
NFE31ZT222Z1E9	_	2200pF ±50%	6A	25Vdc	1000ΜΩ	-40°C to +85°C

Number of Circuits: 1

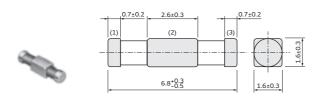
Insertion Loss Characteristics (Main Items)



Feed Through Chip EMI Filters SMD Type

NFE61HT Series 2706/6816(inch/mm)

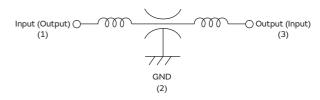
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	2500
К	ø330mm Embossed Taping	8000
В	Packing in Bulk	500

Equivalent Circuit



No Polarity

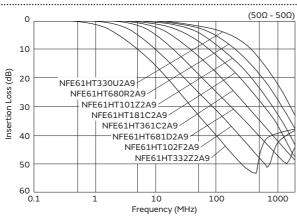
Rated Value (□: packaging code)

Part Number		Capacitance	Rated Current	Rated Voltage	Insulation	Operating
For Infotainment	For Powertrain/Safety	Capacitance	apacitance Rated Current Rated Voltage		Resistance (min.)	Temperature Range
_	NFE61HT330U2A9	33pF ±30%	2A	100Vdc	1000ΜΩ	-55°C to +125°C
_	NFE61HT680R2A9	68pF ±30%	2A	100Vdc	1000ΜΩ	-55°C to +125°C
_	NFE61HT101Z2A9□	100pF ±30%	2A	100Vdc	1000ΜΩ	-55°C to +125°C
_	NFE61HT181C2A9	180pF ±30%	2A	100Vdc	1000ΜΩ	-55°C to +125°C
_	NFE61HT361C2A9	360pF ±20%	2A	100Vdc	1000ΜΩ	-55°C to +125°C
_	NFE61HT681D2A9□	680pF ±30%	2A	100Vdc	1000ΜΩ	-55°C to +125°C
_	NFE61HT102F2A9□	1000pF 80/-20%	2A	100Vdc	1000ΜΩ	-55°C to +125°C
_	NFE61HT332Z2A9□	3300pF 80/-20%	2A	100Vdc	1000ΜΩ	-55°C to +125°C

(in mm)

Number of Circuit: 1

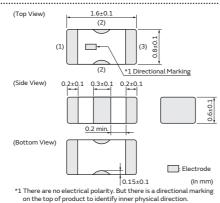
Insertion Loss Characteristics (Main Items)



LC Combined Filters (Multilayer Type) SMD Type

NFL18ZT Series 0603/1608(inch/mm)

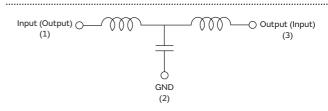
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
В	B Packing in Bulk	

Equivalent Circuit



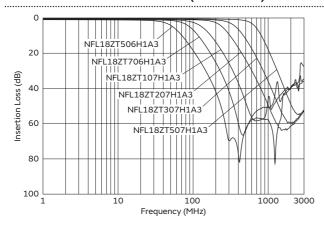
No Polarity.

Rated Value (□: packaging code)

Part N	lumber	Nominal Cut-off	Capacitance	Inductance	Rated	Rated	Insulation Resistance	Withstand
For Infotainment	For Powertrain/Safety	Frequency	Capacitance	inductance	Current	Voltage	(min.)	Voltage
NFL18ZT506H1A3	_	50MHz	110pF (Typ.)	350nH (Typ.)	75mA	10Vdc	1000ΜΩ	30Vdc
NFL18ZT706H1A3	_	70MHz	70pF (Typ.)	230nH (Typ.)	75mA	10Vdc	1000ΜΩ	30Vdc
NFL18ZT107H1A3	_	100MHz	50pF (Typ.)	150nH (Typ.)	75mA	10Vdc	1000ΜΩ	30Vdc
NFL18ZT207H1A3	_	200MHz	22pF (Typ.)	110nH (Typ.)	100mA	10Vdc	1000ΜΩ	30Vdc
NFL18ZT307H1A3	_	300MHz	16pF (Typ.)	74nH (Typ.)	100mA	10Vdc	1000ΜΩ	30Vdc
NFL18ZT507H1A3	_	500MHz	10pF (Typ.)	42nH (Typ.)	100mA	10Vdc	1000ΜΩ	30Vdc

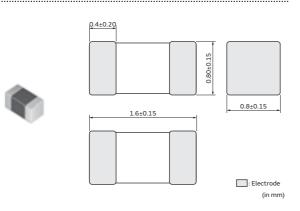
Number of Circuit: 1 Operating Temperature Range: -55°C to +125°C

Insertion Loss Characteristics (Main Items)



NFZ18SM_10 Series 0603/1608(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Tape	4000
В	Bulk(Bag)	1000

Equivalent Circuit



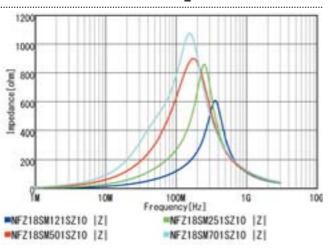
(Resistance element becomes dominant at high frequencies.)

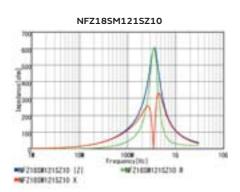
Rated Value (□: packaging code)

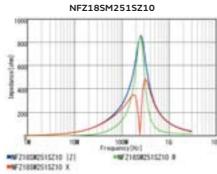
Part N	lumber	Impedance	Impedance Rated Current DC		DC Resistance
Infotainment	Powertrain/Safety	at 100MHz	Rated Current	Resistance	(Max.)
NFZ18SM121SZ10	_	120Ω±25%	1.25A	0.11Ω (Typ.)	0.14Ω
NFZ18SM251SZ10	_	250Ω±25%	1.1A	0.15Ω (Typ.)	0.19Ω
NFZ18SM501SZ10	_	500Ω±25%	950mA	0.20Ω (Typ.)	0.25Ω
NFZ18SM701SZ10	_	700Ω±25%	800mA	0.23Ω (Typ.)	0.29Ω

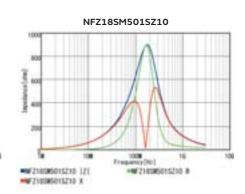
Operating Temp. Range: -55°C to 125°C

Z-f Characteristics: NFZ18SM_10 Series



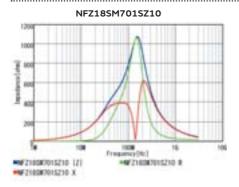






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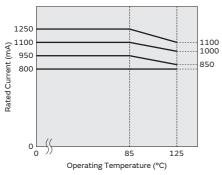
Z-f characteristics



Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for NFZ18SM series. Please apply the derating curve shown in chart according to the operating temperature.

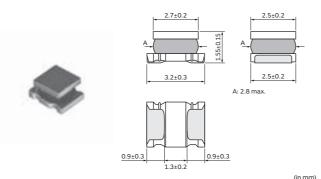
Derating of Rated Current



Impedance Type Filters SMD Type

NFZ32BW_10 Series 1210/3225(inch/mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	7500
L	ø180mm Embossed Tape	2000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

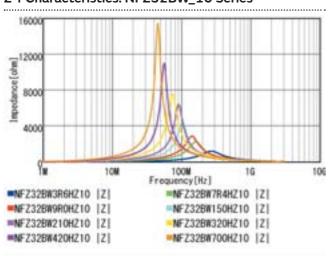
Rated Value (□: packaging code)

Part N	umber	Impedance	Part of Comment	DC
Infotainment	Powertrain/Safety	at 1MHz	Rated Current	Resistance
NFZ32BW3R6HZ10	_	3.6Ω±30%	2.55A	0.03Ω±20%
NFZ32BW7R4HZ10	_	7.4Ω±30%	2.05A	0.045Ω±20%
NFZ32BW9R0HZ10	_	9Ω±30%	1.75A	0.057Ω±20%
NFZ32BW150HZ10	_	15Ω±30%	1.6A	0.076Ω±20%
NFZ32BW210HZ10	_	21Ω±30%	1.2A	0.12Ω±20%
NFZ32BW320HZ10	_	32Ω±30%	1A	0.18Ω±20%
NFZ32BW420HZ10	_	42Ω±30%	850mA	0.24Ω±20%
NFZ32BW700HZ10	_	70Ω±30%	700mA	0.38Ω±20%
NFZ32BW111HZ10	_	110Ω±30%	520mA	0.57Ω±20%
NFZ32BW151HZ10	_	150Ω±30%	450mA	0.81Ω±20%
NFZ32BW221HZ10	_	220Ω±30%	390mA	1.15Ω±20%
NFZ32BW291HZ10	_	290Ω±30%	310mA	1.78Ω±20%
NFZ32BW451HZ10	_	450Ω±30%	275mA	2.28Ω±20%
NFZ32BW621HZ10	_	620Ω±30%	250mA	2.7Ω±20%
NFZ32BW881HZ10	_	880Ω±30%	200mA	4.38Ω±20%

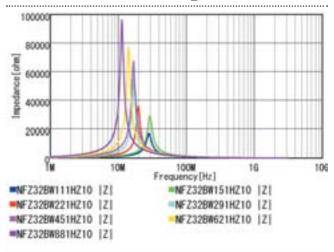
Operating Temp. Range: -40°C to 105°C

Operating Temp. Range self-temp. rise included: -40°C to 125°C

Z-f Characteristics: NFZ32BW_10 Series



Z-f Characteristics: NFZ32BW_10 Series

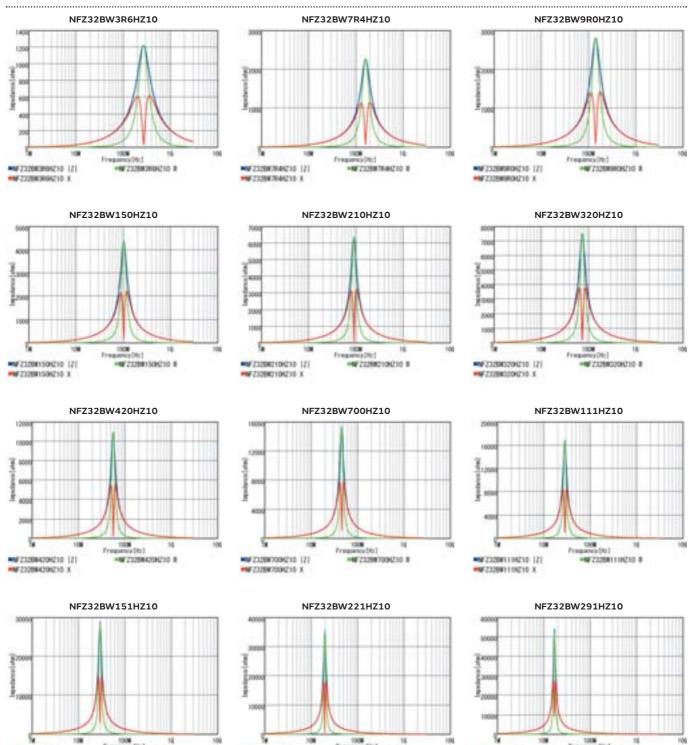


SMD Type

■#Z329#1516216 121 ■#Z329#1616216 X -W7125W151H210 R

Continued from the preceding page. \searrow

Z-f characteristics



Continued on the following page. 7

-W732982919210 R

■# 232002919210 121 ■# 232002919210 X

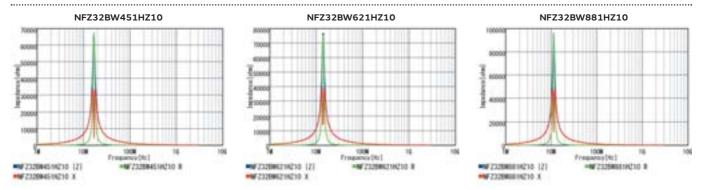
-W702980219210 R

MA 2320423-14210 [2]

■₩7329902219210 X

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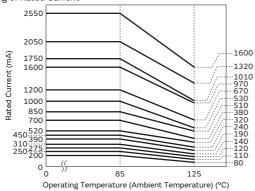
Z-f characteristics



Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for NFZ32BW_H \square 10 series. Please apply the derating curve shown in chart according to the operating temperature.

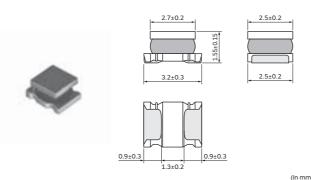




Impedance Type Filters SMD Type

NFZ32BW_11 Series 1210/3225(inch/mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	7500
L	ø180mm Embossed Tape	2000

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

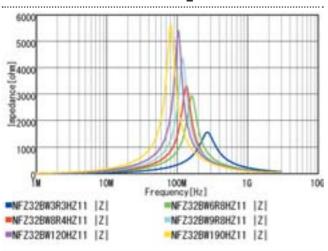
Rated Value (□: packaging code)

Part N	lumber	Impedance	Rated Current	DC
Infotainment	Powertrain/Safety	at 1MHz	Rated Current	Resistance
NFZ32BW3R3HZ11	_	3.3Ω±30%	2.9A	0.024Ω±20%
NFZ32BW6R8HZ11	_	6.8Ω±30%	2.5A	0.036Ω±20%
NFZ32BW8R4HZ11	_	8.4Ω±30%	2.4A	0.048Ω±20%
NFZ32BW9R8HZ11	_	9.8Ω±30%	2.1A	0.053Ω±20%
NFZ32BW120HZ11	_	12Ω±30%	1.85A	0.064Ω±20%
NFZ32BW190HZ11	_	19Ω±30%	1.8A	0.089Ω±20%
NFZ32BW210HZ11	_	21Ω±30%	1.55A	0.100Ω±20%
NFZ32BW310HZ11	_	31Ω±30%	1.2A	0.155Ω±20%
NFZ32BW520HZ11	_	52Ω±30%	1.1A	0.220Ω±20%
NFZ32BW650HZ11	_	65Ω±30%	900mA	0.295Ω±20%
NFZ32BW101HZ11	_	100Ω±30%	900mA	0.475Ω±20%
NFZ32BW151HZ11	_	150Ω±30%	700mA	0.685Ω±20%

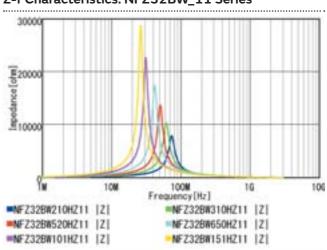
Operating Temp. Range: -40°C to 105°C

Operating Temp. Range self-temp. rise included: -40°C to 125°C

Z-f Characteristics: NFZ32BW_11 Series



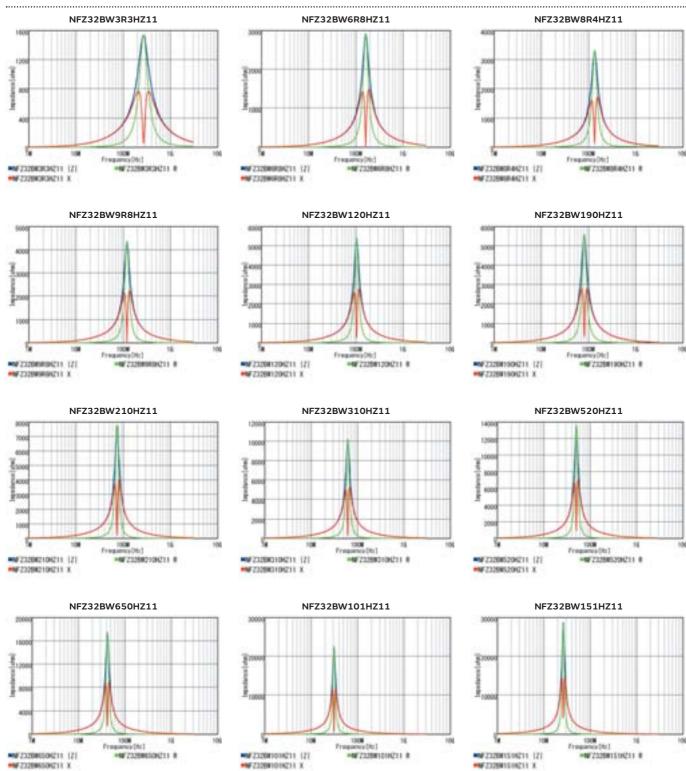
Z-f Characteristics: NFZ32BW_11 Series



SMD Type

Continued from the preceding page. \searrow

Z-f characteristics

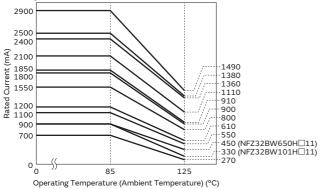


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Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for NFZ32BW_H \square 11 series. Please apply the derating curve shown in chart according to the operating temperature.



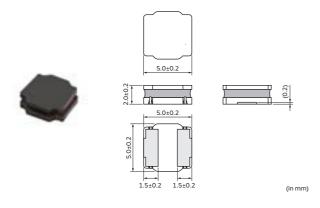


muRata

Impedance Type Filters SMD Type

NFZ5BBW_10 Series 2020/5050(inch/mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
К	ø330mm Embossed Tape	3000
L	ø180mm Embossed Tape	500

Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

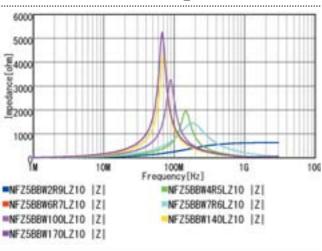
Rated Value (\square : packaging code)

, .	8 8 7				
Part N	umber	Impedance	Rated Current	DC	
Infotainment	Powertrain/Safety	at 1MHz	natea canene	Resistance	
NFZ5BBW2R9LZ10	_	2.9Ω±30%	4A	0.012Ω±20%	
NFZ5BBW4R5LZ10	_	4.5Ω±30%	3.4A	0.015Ω±20%	
NFZ5BBW6R7LZ10	_	6.7Ω±30%	3.1A	0.019Ω±20%	
NFZ5BBW7R6LZ10	_	7.6Ω±30%	3.1A	0.019Ω±20%	
NFZ5BBW100LZ10	_	10Ω±30%	3A	0.024Ω±20%	
NFZ5BBW140LZ10	_	14Ω±30%	2.6A	0.030Ω±20%	
NFZ5BBW170LZ10	_	17Ω±30%	2.5A	0.035Ω±20%	
NFZ5BBW220LZ10	_	22Ω±30%	2.3A	0.044Ω±20%	
NFZ5BBW310LZ10	_	31Ω±30%	2A	0.058Ω±20%	
NFZ5BBW450LZ10	_	45Ω±30%	1.65A	0.083Ω±20%	
NFZ5BBW520LZ10	_	52Ω±30%	1.61A	0.100Ω±20%	
NFZ5BBW610LZ10	_	61Ω±30%	1.6A	0.106Ω±20%	
NFZ5BBW970LZ10	_	97Ω±30%	1.2A	0.187Ω±20%	
NFZ5BBW141LZ10	_	140Ω±30%	1.05A	0.259Ω±20%	

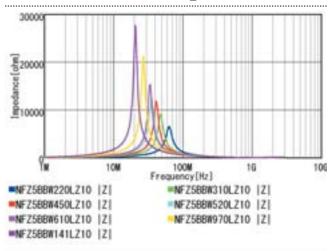
Operating Temp. Range: -40°C to 105°C

Operating Temp. Range self-temp. rise included: -40°C to 125°C

Z-f Characteristics: NFZ5BBW_10 Series



Z-f Characteristics: NFZ5BBW_10 Series

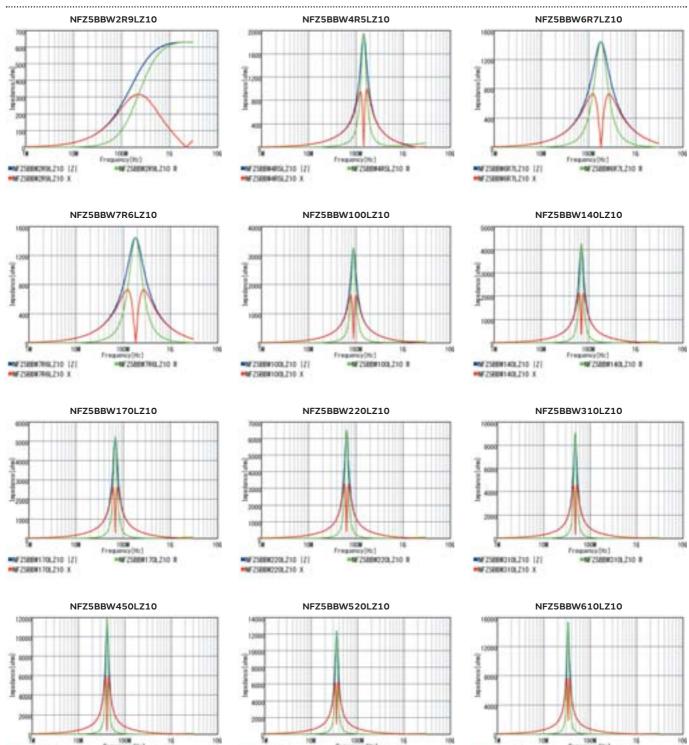


■# 2588#450L210 |2| ■# 2588#450L210 X

-W7588W450L710 R

Continued from the preceding page. \searrow

Z-f characteristics



Continued on the following page. 🖊

-W7588W6103.210 R

■#7588#610L210 [2] ■#7588#610L210 X

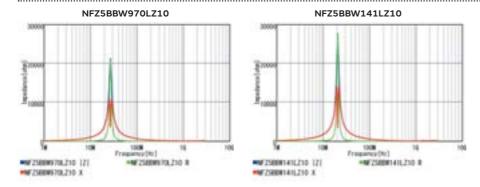
-W/2588W5201,210 R

■W 2588W520L210 |2|

■W 2588W520L210 X

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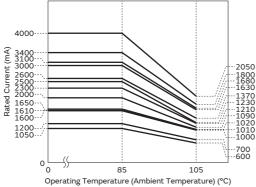
Z-f characteristics



Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for NFZ5BBW_L \square 10 series. Please apply the derating curve shown in chart according to the operating temperature.





Chip EMIFIL[®] (NF□ Series) ∴Caution/Notice

● (Caution

Rating

- About the Rated Current
 Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.
- 2. About the Excessive Surge Current (NFZ Series)
 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

 Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure our product.

● Notice

Storage and Operating Condition

<Operating Environment>

Do not use products in the corrodible atmosphere such as acidic gases, alkaline gases, chlorine, sulfur gases, organic gases. (the sea breeze, Cl₂, H₂S, NH₃, SO₂, NO₂,etc)
Do not use products in the environment close to the organic solvent.

- <Storage and Handling Requirements>
- Storage Period
 The NF series should be used within 12 months.
 Products to be used after this period should be checked for solderability or bondability with glue.

- 2. Storage Conditions
 - 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.

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.

Chip EMIFIL $^{\circledR}$ (NF \square Series) \triangle Caution/Notice

Continued from the preceding page.

Handling

- Resin Coating (Except for NFZ Series)
 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.

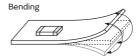
 Resin Coating (NFZ_W Series)

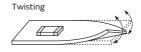
To prevent breaking the wire, avoid touching with sharp material, such as tweezers or other material such as bristles of cleaning brush, to the wire wound portion of this product. To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board. An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc. Some resins containing impurities or chloride may possibly.

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.





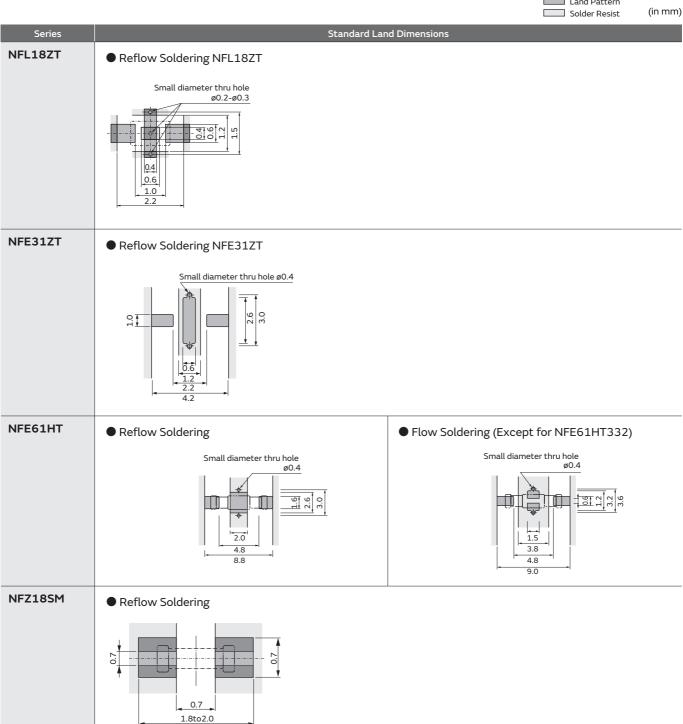
Chip EMIFIL $^{\circledR}$ (NF \square Series) Soldering and Mounting

1. Standard Land Pattern Dimensions

NF \square series suppress noise by conducting the high-frequency noise element to ground. Therefore, to obtain maximum performance from these filters, the ground pattern should be made as large as possible during the PCB design stage. As shown below, one side of the PCB is used for chip mounting, and the other is used for grounding.

Small diameter feedthrough holes are then used to connect the grounds on each side of the PCB. This reduces the high-frequency impedance of the grounding and maximizes the filter's performance.



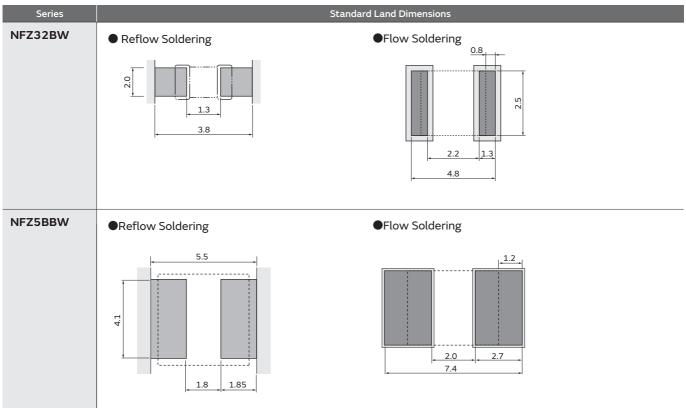


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Land Pattern
+ Solder Resist
Land Pattern
Solder Resist (in mm)



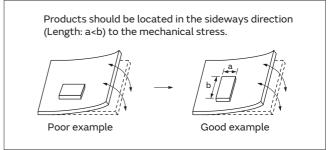
(1) PCB Warping

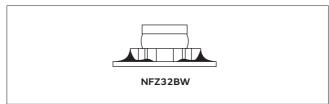
PCB should be designed so that products are not subjected to the mechanical stress caused by warping the board.

(2) Amount of Solder Paste

Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that solder is applied.

- Guideline of solder paste thickness
- · NFZ32BW / 5BBW: 100 to 150µm
- · NFZ18SM: 100 to 200µm





Continued from the preceding page.

2. Solder Paste Printing and Adhesive Application

When reflow soldering the chip EMI suppression filter, 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 EMI suppression filter, 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 NFL18ZT Guideline of solder paste thickness: 100-150µm 0.6 0.4 1.0 NFE31ZT • Guideline of solder paste thickness: 150-200µm 9.0 NFE61HT Apply 1.0mg of bonding agent at each chip. • Guideline of solder paste thickness: 150-200µm 1.5 Bonding agent 4.8 Bonding agent * Except for NFE61HT332 **NFZ5BBW** Amount of adhesive applied is a standard 1/2 to 2/3 of the bottom flange thickness. The thickness of bottom flange Adhesive application is recommended the 3-point application. (prevent the drop of products) Chip noise filter Solder Resist Land Adhesive apply position

Continued from the preceding page.

3. Standard Soldering Conditions

(1) Soldering Methods

Use flow and reflow soldering methods only.
Use standard soldering conditions when soldering chip EMI suppression filters.

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 NFM series with Sn-Zn based solder, please contact Murata in advance.

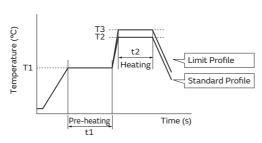
Flux:

- 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.

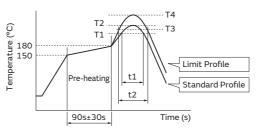
(2) Soldering Profile

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



	Pre-heating		Standard Profile		Limit Profile			
Series			Hea	ting	Cycle	Hea	ting	Cycle
	Temp. (T1)	Time. (t1)	Temp. (T2)	Time. (t2)	of Flow	Temp. (T3)	Time. (t2)	of Flow
NFE61HT (Except for NFE61HT332)	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	2 times max.
NFZ5BBW	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	1 time

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



		Stand	ard Profile		Limit Profile				
Series	Hea	ting	Peak Temperature	Cycle	Heating		Peak Temperature	Cycle	
	Temp. (T1)	Time. (t1)	(T2)	of Reflow	Temp. (T3)	Time. (t2)	(T4)	of Reflow	
NFE31ZT									
NFE61HT									
NFL18ZT	220°C min.	220°C min. 30 to 60s	o 60s 245±3°C	2 times max. 230°C min.	230°C min.	60s max. 26	260°C/10s	2 times	
NFZ18SM					2001116011		max.		
NFZ32BW									
NFZ5BBW									

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(3) Reworking with Solder Iron

The following conditions must be strictly followed when using a soldering iron.

Pre-heating: 150°C 60s min.

Soldering iron power output / Tip diameter:

30W max. / ø3mm max.*1

*1 NFZ18SM/32/5BBW: 80W max. / ø3mm max.

Temperature of soldering iron tip / Soldering time /

Times

350°C max. / 3-4s / 2 times*2

*2 NFE31ZT152Z1E9 \square : 280°C max. / 10s max.

NFZ5BBW: 380°C max. /3-4s

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 EMI filter.

- (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

Care should be taken not to cause resonance of the PCB

and mounted products.

(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.

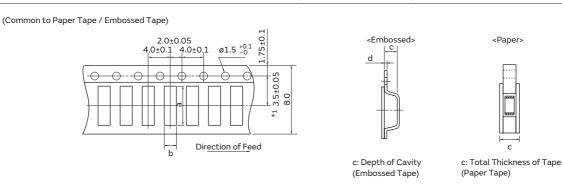
- (a) Alcohol cleaning agent Isopropyl alcohol (IPA)
- (b) Aqueous cleaning agent Pine Alpha ST-100S

(4) Ensure that flux residue is completely removed.

Component should be thoroughly dried after aqueous agent has been removed with deionized water.

Chip EMIFIL® (NF□ Series) Packaging

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

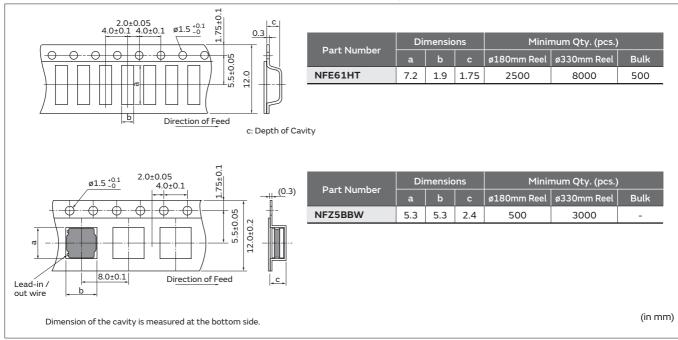


Dimension of the cavity of embossed tape is measured at the bottom side.

	Minimum Qty. (pcs.)					.)			
Part Number	Dimensions		ø180	mm Reel	ø330	mm Reel	D. II.		
	a	b	С	d	Paper Tape	Embossed Tape	Paper Tape	Embossed Tape	Bulk
NFL18ZT	1.85	1.05	0.9 max.	-	4000	-	-	-	1000
NFE31ZT	3.6	1.8	1.85	0.2	-	2000	-	8000	500
NFZ18SM	1.85	1.05	1.1	-	4000	-	-	-	1000
NFZ32BW	3.6	2.9	1.7	0.2	-	2000	-	7500	-

(in mm)

Minimum Quantity and Dimensions of 12mm Width Embossed Tape



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

Part Numbering

Chip Common Mode Choke Coil for Automotive

(Part Number) DL W 43 S H 101 X K 2 L

①Product ID

Product ID	
DL	Chip Common Mode Choke Coils

2Structure

Code	Structure
W	Wire Wound Type

3Dimensions (LxW)

Code	Dimensions (LxW)	Size Code (inch)
21	2.0x1.2mm	0805
31	3.2x1.6mm	1206
32	3.2x2.5mm	1210
43	4.5x3.2mm	1812
44	4.0x4.0mm	1515
5A	5.0x3.6mm	2014
5B	5.0x5.0mm	2020

4Features (1)

Code	Туре
S	Magnetically Shielded One Circuit Type
Т	One Circuit Low Profile Type
М	Magnetically Shielded One Circuit Type (Transfer mode conversion characteristics improved)

5Category

Code	Category				
Z	:	Infotainment			
Н	For Automotive	Powertrain, Safety			

6Impedance

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

6Inductance (DLW43SH)

Expressed by three figures. The unit is micro-henry (μ H). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two figures.

7Circuit

Code	Circuit
S	
М	
н	Expressed by a letter.
Т	
х	

8 Features (2)

Code	Features
K	
Р	Expressed by a letter.
Q	

9Number of Signal Lines

Code	Number of Signal Lines
2	Two Lines

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	DLW43/DLW44S/DLW5AT/DLW5BS/DLW5BT
L	Embossed Taping (ø180mm Reel)	All Series
В	Bulk	All Series

Chip Common Mode Choke Coil for Automotive

(Part Number) DL M 11 S N 900 H Z 2 L 4 S 6 7 8 9 10

1Product ID

Product ID	
DL	Chip Common Mode Choke Coils

2Structure

Code	Structure
М	Multilayer Type

3Dimensions (LxW)

Code	Dimensions (LxW)	Size Code (inch)
0Q	0.65x0.5mm	025020
ON	0.85x0.65mm	03025
11	1.25x1.0mm	0504

4Features (1)

Code	Туре
S	Magnetically Shielded One Circuit Type

GCategory

Code	Category
N	For General

6Impedance

Typical impedance at 100MHz is 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 that follow the two figures.

Circuit

Code	Circuit
н	Expressed by a letter.

8 Features (2)

Code	Features	
Z	For Automotive	Infotainment
Н		Powertrain, Safety

9Number of Signal Lines

Code	Number of Signal Lines
2	Two Lines

Code	Code Packaging	
L Embossed Taping (ø180mm Reel)		
В	Bulk	

Common Mode Choke Coil for Automotive

(Part Number) PL T 10H H 102 6R0 P N B 2 3 4 5 6 7 3 9

①Product ID

Product ID		
PL	Common Mode Choke Coils	

2 Type

Code	Туре	
Т	DC Type	

3Applications

Code	Code Applications	
10H	For DC Line High-frequency Type	
5BP	5.0x5.0mm Size, for DC Lines	

4Features (1)

Code	Features	
Н	For Automotive	Powertrain, Safety

5 Impedance

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

6Rated Current

Expressed by three figures. The unit is ampere (A). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. A decimal point is expressed by the capital letter "R." In this case, all figures are significant digits.

7Features (2)

Code	Features
P	Francisco d'histo lotton
s	Expressed by a letter.

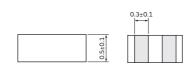
8Lead Dimensions

Code	Lead Dimensions
N	No Lead Terminal (SMD)

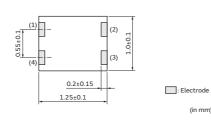
or deridging			
	Code	Packaging	Series
	В	Bulk	PLT10H, PLT5BP
	L	Embossed Taping (ø178mm/ø180mm Reel)	PLT10H, PLT5BP
	K	Embossed Taping (ø330mm Reel)	PLT10H

DLM11S Series 0504/1210(inch/mm)

Appearance/Dimensions



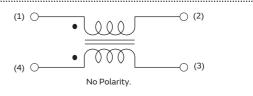




Packaging

	Code	Packaging	Minimum Quantity
Ī	L	ø180mm Embossed Tape	4000
	В	Bulk(Bag)	500

Equivalent Circuit



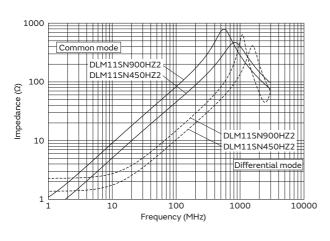
Rated Value (□: packaging code)

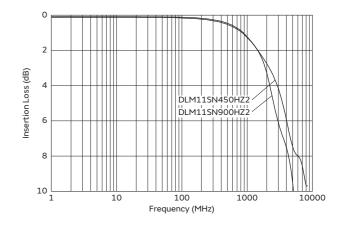
Part Number		Common Mode Impedance	Dated Current	Rated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	at 100MHz	Rated Current	Rateu Voltage	(Min.)	Voltage	Resistance
DLM11SN450HZ2	_	45Ω±25%	100mA	5Vdc	100ΜΩ	12.5Vdc	0.7Ω±25%
DLM11SN900HZ2	_	90Ω±25%	100mA	5Vdc	100ΜΩ	12.5Vdc	1.1Ω±25%

Operating Temp. Range: -55°C to 125°C

Z-f characteristics: DLM11SN_HZ2 series

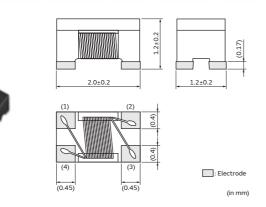
Differential mode Z-f characteristics: DLM11SN_HZ2 series





DLW21S Series 0805/2012(inch/mm)

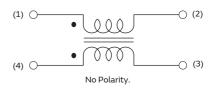
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Tape	2000
В	Bulk(Bag)	500

Equivalent Circuit



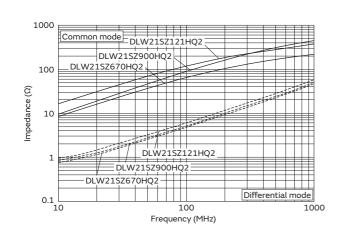
Rated Value (□: packaging code)

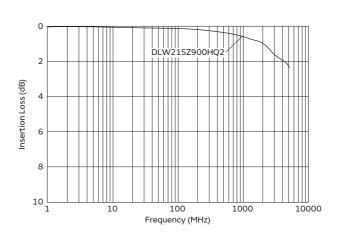
Part Number		Common Mode Impedance	Rated Current	Rated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	at 100MHz	Nateu Current	Rateu voltage	(Min.)	Voltage	Resistance
DLW21SZ670HQ2	_	67Ω±25%	320mA	20Vdc	10ΜΩ	50Vdc	0.31Ω max.
DLW21SZ900HQ2	_	90Ω±25%	280mA	20Vdc	10ΜΩ	50Vdc	0.41Ω max.
DLW21SZ121HQ2	_	120Ω±25%	280mA	20Vdc	10ΜΩ	50Vdc	0.41Ω max.
DLW21SZ181XQ2	_	180Ω±25%	240mA	20Vdc	10ΜΩ	50Vdc	0.39Ω max.
DLW21SZ261XQ2	_	260Ω±25%	220mA	20Vdc	10ΜΩ	50Vdc	0.59Ω max.
DLW21SZ491XQ2□	_	490Ω±25%	200mA	20Vdc	10ΜΩ	50Vdc	0.77Ω max.

Operating Temp. Range: -40°C to 105°C

Z-f characteristics: DLW21SZ_HQ2 series

Differential mode transmission loss: DLW21SZ_HQ2 series



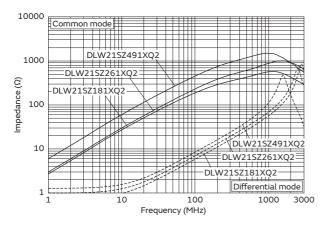


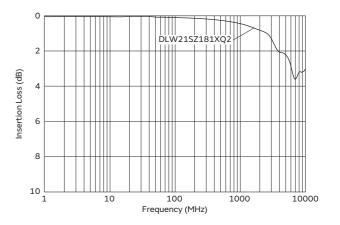


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Z-f characteristics: DLW21SZ_XQ2 series

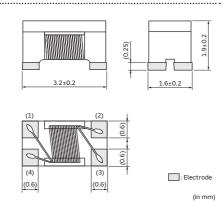
Differential mode transmission loss: DLW21SZ_XQ2 series





DLW31S Series 1206/3216(inch/mm)

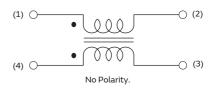
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Tape	2000
В	Bulk(Bag)	500

Equivalent Circuit

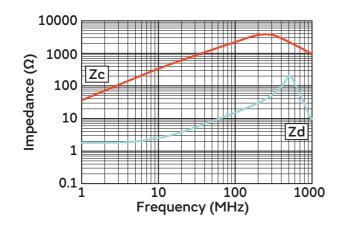


Rated Value (□: packaging code)

Part Number		Common Mode Impedance	Rated Current	Dated Voltage	Insulation Resistance	Withstanding	DC	
Infotainme		Powertrain/Safety	at 100MHz	Rated Current	Rated Voltage	(Min.)	Voltage	Resistance
_		DLW31SH222SQ2	2200Ω±25%	80mA	32Vdc	10ΜΩ	80Vdc	1.6Ω±20%

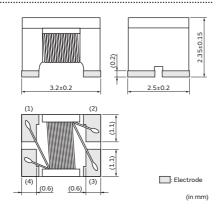
Operating Temp. Range: -40°C to 125°C

Z-f characteristics: DLW31SH_SQ2 series



DLW32S Series 1210/3225(inch/mm)

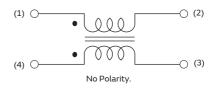
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Tape	1500
В	Bulk(Bag)	500

Equivalent Circuit

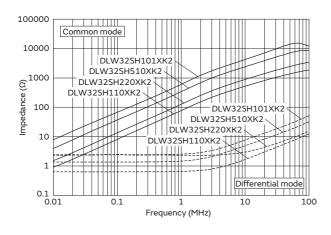


Rated Value (□: packaging code)

Part N	lumber	Common Mode Inductance	Dated Current	Rated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	Common Plode Inductance	Rateu Current	Rated Voltage	(Min.)	Voltage	Resistance
_	DLW32SH110XK2	11µH-30%/+50% (at 0.1MHz)	300mA	80Vdc	10ΜΩ	200Vdc	0.4Ω max.
_	DLW32SH220XK2	22μH-30%/+50% (at 0.1MHz)	250mA	80Vdc	10ΜΩ	200Vdc	0.5Ω max.
_	DLW32SH510XK2	51µH-30%/+50% (at 0.1MHz)	200mA	80Vdc	10ΜΩ	200Vdc	0.7Ω max.
_	DLW32SH101XK2	100µH-30%/+50% (at 0.1MHz)	150mA	80Vdc	10ΜΩ	200Vdc	1.5Ω max.

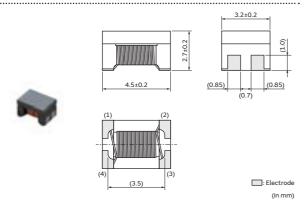
Operating Temp. Range: -40°C to 125°C

Z-f characteristics: DLW32SH_XK2 series



DLW43M Series 1812/4532(inch/mm)

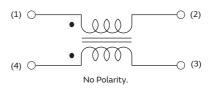
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	2500
L	ø180mm Embossed Tape	500
В	Bulk(Bag)	100

Equivalent Circuit

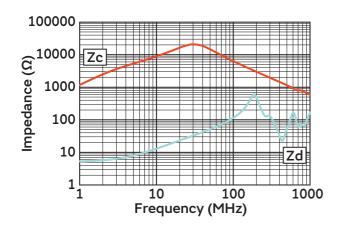


Rated Value (□: packaging code)

Part N	umber	- Common Mode Inductance	Rated Current	Rated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	Common Mode Inductance			(Min.)	Voltage	Resistance
_	DLW43MH201XK2	200µH-25%/+50% (at 0.1MHz)	110mA	20Vdc	10ΜΩ	50Vdc	4.5Ω max.

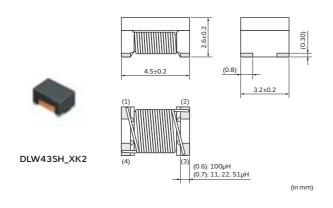
Operating Temp. Range: -40°C to 105°C

Z-f characteristics: DLW43MH_XK2 series



DLW43S Series 1812/4532(inch/mm)

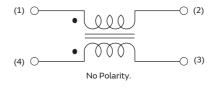
Appearance/Dimensions



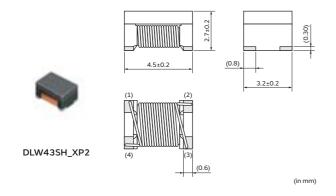
Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	2500
L	ø180mm Embossed Tape	500
В	Bulk(Bag)	100

Equivalent Circuit



Appearance/Dimensions



Rated Value (□: packaging code)

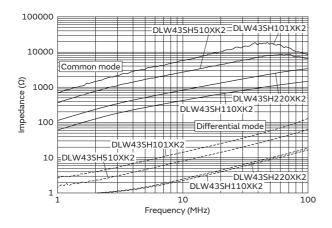
Part N	lumber	Common Mode Inductance	Rated Current	Dated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	Common Place Inductance	Rated Current	Rated Voltage	(Min.)	Voltage	Resistance
_	DLW43SH110XK2	11µH-30%/+50% (at 0.1MHz)	360mA	50Vdc	10ΜΩ	125Vdc	0.5Ω max.
_	DLW43SH220XK2	22µH-30%/+50% (at 0.1MHz)	310mA	50Vdc	10ΜΩ	125Vdc	0.6Ω max.
_	DLW43SH510XK2	51µH-30%/+50% (at 1MHz)	230mA	50Vdc	10ΜΩ	125Vdc	1.0Ω max.
_	DLW43SH101XK2	100µH-30%/+50% (at 1MHz)	200mA	50Vdc	10ΜΩ	125Vdc	2.0Ω max.
_	DLW43SH101XP2	100µH-30%/+80% (at 0.1MHz)	170mA	50Vdc	10ΜΩ	125Vdc	2.0Ω max.

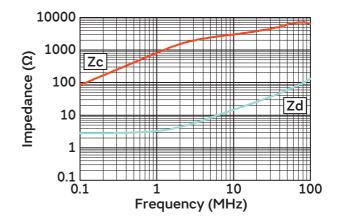
Operating Temp. Range: -40°C to 125°C

Continued from the preceding page.

Z-f characteristics: DLW43SH_XK2 series

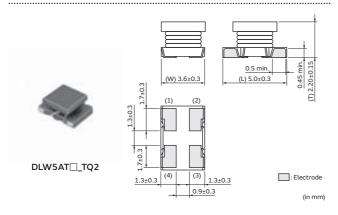






DLW5AT Series 2014/5036(inch/mm)

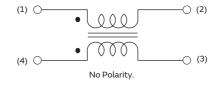
Appearance/Dimensions



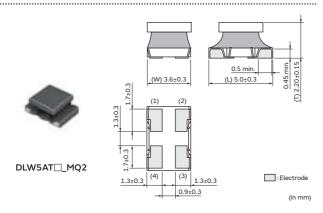
Packaging

Code	Packaging	Minimum Quantity
к	ø330mm Embossed Tape	2500
L	ø180mm Embossed Tape	700
В	Bulk(Bag)	100

Equivalent Circuit



Appearance/Dimensions



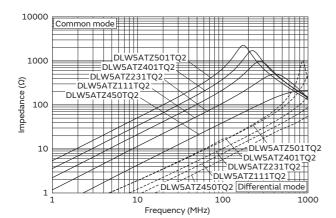
Rated Value (□: packaging code)

Part Number		Common Mode Impedance	Common Mode Impedance	Dated Current	Rated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	at 10MHz	at 100MHz	Rated Current	Rated Voltage	(Min.)	Voltage	Resistance
DLW5ATZ450TQ2	DLW5ATH450TQ2□	4.7Ω±25%	45Ω(Typ.)	4A	50Vdc	10ΜΩ	125Vdc	0.013Ω max.
DLW5ATZ500MQ2	DLW5ATH500MQ2	4.6Ωmin.	50Ω(Typ.)	4A	50Vdc	10ΜΩ	125Vdc	0.013Ω max.
DLW5ATZ111TQ2	DLW5ATH111TQ2	12Ω±25%	110Ω(Typ.)	3A	50Vdc	10ΜΩ	125Vdc	0.020Ω max.
DLW5ATZ151MQ2	DLW5ATH151MQ2	11Ωmin.	150Ω(Typ.)	3A	50Vdc	10ΜΩ	125Vdc	0.020Ω max.
DLW5ATZ231TQ2	DLW5ATH231TQ2□	22Ω±25%	230Ω(Typ.)	2.5A	50Vdc	10ΜΩ	125Vdc	0.027Ω max.
DLW5ATZ331MQ2□	DLW5ATH331MQ2	20Ωmin.	330Ω(Typ.)	2.5A	50Vdc	10ΜΩ	125Vdc	0.027Ω max.
DLW5ATZ401TQ2	DLW5ATH401TQ2□	35Ω±25%	400Ω(Typ.)	2A	50Vdc	10ΜΩ	125Vdc	0.034Ω max.
DLW5ATZ501MQ2	DLW5ATH501MQ2	35Ωmin.	500Ω(Typ.)	2A	50Vdc	10ΜΩ	125Vdc	0.034Ω max.
DLW5ATZ501TQ2	DLW5ATH501TQ2	55Ω±25%	500Ω(Typ.)	1.5A	50Vdc	10ΜΩ	125Vdc	0.056Ω max.
DLW5ATZ112MQ2	DLW5ATH112MQ2	50Ωmin.	1100Ω(Typ.)	1.5A	50Vdc	10ΜΩ	125Vdc	0.056Ω max.

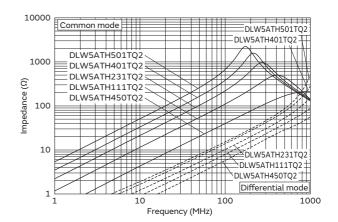
Operating Temp. Range: -40°C to 105°C/-40°C to 125°C

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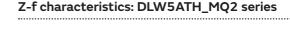
Z-f characteristics: DLW5ATZ_TQ2 series

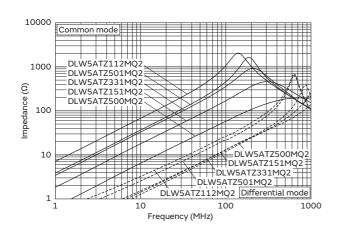


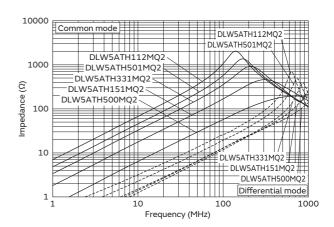
Z-f characteristics: DLW5ATH_TQ2 series



Z-f characteristics: DLW5ATZ_MQ2 series





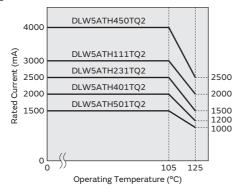


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Derating of Rated Current

In operating temperature exceeding +105°C, derating of current is necessary for DLW5ATH_TQ2 series. Please apply the derating curve shown in chart according to the operating temperature.

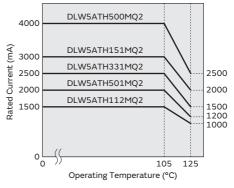
Derating of Rated Current



Derating of Rated Current

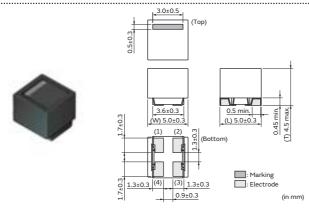
In operating temperature exceeding +105°C, derating of current is necessary for DLW5ATH_MQ2 series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



DLW5BS Series 2020/5050(inch/mm)

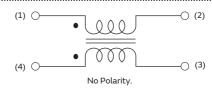
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
К	ø330mm Embossed Tape	1500
L	ø180mm Embossed Tape	400
В	Bulk(Bag)	100

Equivalent Circuit

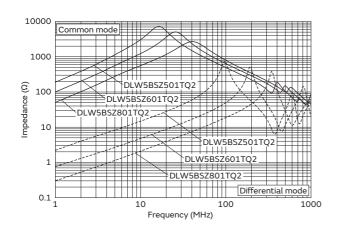


Rated Value (□: packaging code)

Part Number		Common Mode Impedance Common Mode Impedance		Rated Current R	Dated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	at 10MHz	at 100MHz	Rated Current	Rated Voltage	(Min.)	Voltage	Resistance
DLW5BSZ501TQ2	_	2800Ω±40%	500Ω(Typ.)	700mA	50Vdc	10ΜΩ	125Vdc	0.23Ω max.
DLW5BSZ601TQ2	_	1200Ω±40%	600Ω(Typ.)	1A	50Vdc	10ΜΩ	125Vdc	0.12Ω max.
DLW5BSZ801TQ2	_	550Ω±40%	800Ω(Typ.)	1.5A	50Vdc	10ΜΩ	125Vdc	0.056Ω max.

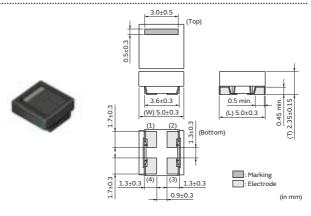
Operating Temp. Range: -40°C to 105°C

Z-f characteristics: DLW5BSZ_TQ2 series



DLW5BT Series 2020/5050(inch/mm)

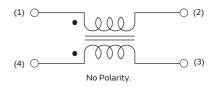
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
к	ø330mm Embossed Tape	2500
L	ø180mm Embossed Tape	700
В	Bulk(Bag)	100

Equivalent Circuit



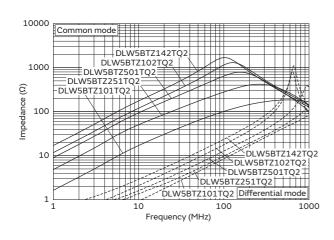
Rated Value (□: packaging code)

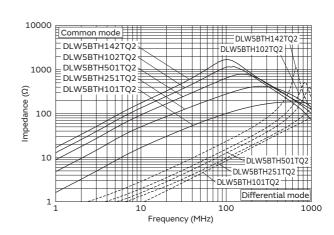
Part Number		Common Mode Impedance	Common Mode Impedance	Rated Current	Pated Voltage	Insulation Resistance	Withstanding	DC
Infotainment	Powertrain/Safety	at 10MHz	at 100MHz	Rated Current	Rateu voltage	(Min.)	Voltage	Resistance
DLW5BTZ101TQ2□	DLW5BTH101TQ2□	10Ωmin.	100Ω(Typ.)	4A	50Vdc	10ΜΩ	125Vdc	0.013Ω max.
DLW5BTZ251TQ2□	DLW5BTH251TQ2□	20Ωmin.	250Ω(Typ.)	ЗА	50Vdc	10ΜΩ	125Vdc	0.020Ω max.
DLW5BTZ501TQ2□	DLW5BTH501TQ2	30Ωmin.	500Ω(Typ.)	2.5A	50Vdc	10ΜΩ	125Vdc	0.027Ω max.
DLW5BTZ102TQ2□	DLW5BTH102TQ2	60Ωmin.	1000Ω(Typ.)	2A	50Vdc	10ΜΩ	125Vdc	0.034Ω max.
DLW5BTZ142TQ2□	DLW5BTH142TQ2□	100Ωmin.	1400Ω(Typ.)	1.5A	50Vdc	10ΜΩ	125Vdc	0.056Ω max.

Operating Temp. Range: -40°C to 105°C/-40°C to 125°C

Z-f characteristics: DLW5BTZ_TQ2 series

Z-f characteristics: DLW5BTH_TQ2 series



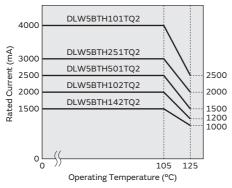


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Derating of Rated Current

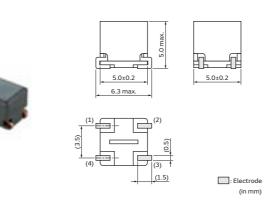
In operating temperature exceeding +105°C, derating of current is necessary for DLW5BTH_TQ2 series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



PLT5BP Series 2020/5050(inch/mm)

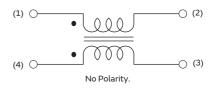
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Tape	300
В	Bulk(Bag)	50

Equivalent Circuit

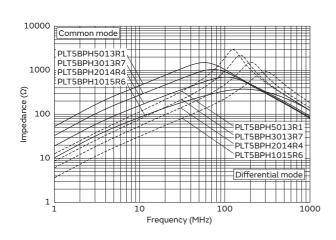


Rated Value (□: packaging code)

Part Number		Common Mode Impedance	Pated Current	Rated Voltage	Insulation Resistance	Withstanding	DC	
Infotainment	Powertrain/Safety	at 10MHz	Rated Cullett	Rateu voltage	(Min.)	Voltage	Resistance	
_	PLT5BPH1015R6SN□	100Ω(Typ.)	5.6A	80Vdc	10ΜΩ	200Vdc	4mΩ±30%	
_	PLT5BPH2014R4SN	200Ω(Typ.)	4.4A	80Vdc	10ΜΩ	200Vdc	7mΩ±30%	
_	PLT5BPH3013R7SN□	300Ω(Typ.)	3.7A	80Vdc	10ΜΩ	200Vdc	11mΩ±30%	
_	PLT5BPH5013R1SN□	500Ω(Typ.)	3.1A	80Vdc	10ΜΩ	200Vdc	17mΩ±30%	

Operating Temp. Range: -55°C to 150°C

Z-f characteristics: PLT5BPH series



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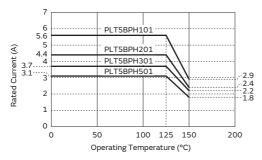
Derating of Rated Current

In operating temperature exceeding +125°C, derating of current is necessary for PLT5BP series.

Please apply the derating curve shown in chart according

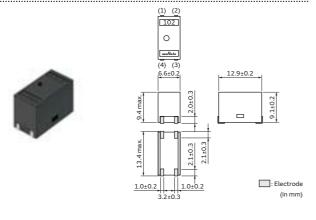
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



PLT10H Series

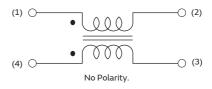
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Tape	500
L	ø180mm Embossed Tape	125
В	Bulk(Bag)	50

Equivalent Circuit

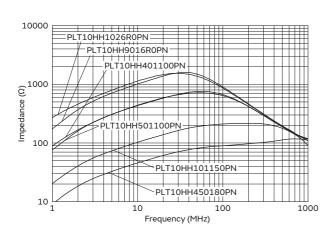


Rated Value (□: packaging code)

Part Number		Common Mode Impedance	Common Mode Inductance	Dated Current	Dated Voltage	Insulation Resistance	Withstanding	DC	Operating
Infotainment	Powertrain/Safety	at 10MHz	Common Mode Inductance	Rated Current	Rated Voltage	(Min.)	Voltage	Resistance	Temp. Range
_	PLT10HH450180PN□	45Ω(Typ.)	0.8µHmin.	18A	300Vdc	10ΜΩ	750Vdc	$1.3 m\Omega \pm 0.5 m\Omega$	-55°C to 125°C
_	PLT10HH101150PN□	100Ω(Typ.)	2.0µHmin.	15A	300Vdc	10ΜΩ	750Vdc	$1.8 m\Omega \pm 0.5 m\Omega$	-55°C to 125°C
_	PLT10HH401100PN□	400Ω(Typ.)	6μHmin.	10A	100Vdc	10ΜΩ	250Vdc	$3.6m\Omega \pm 0.5m\Omega$	-55°C to 125°C
_	PLT10HH501100PN□	500Ω(Typ.)	9μHmin.	10A	100Vdc	10ΜΩ	250Vdc	$3.6m\Omega \pm 0.5m\Omega$	-55°C to 105°C
_	PLT10HH9016R0PN□	900Ω(Typ.)	14μHmin.	6A	100Vdc	10ΜΩ	250Vdc	$8.0 m\Omega \pm 0.5 m\Omega$	-55°C to 125°C
_	PLT10HH1026R0PN□	1000Ω(Typ.)	20μHmin.	6A	100Vdc	10ΜΩ	250Vdc	$8.0 m\Omega \pm 0.5 m\Omega$	-55°C to 105°C

Operating temperature should include self-temperature rise.

Z-f characteristics: PLT10HH series

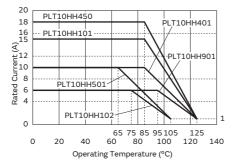


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Derating of Rated Current

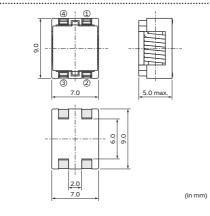
In operating temperature exceeding +65°C, derating of current is necessary for PLT10H series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



UCMH0907 Series 3527/9070(inch/mm)

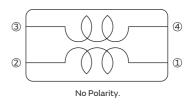
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Tape	750

Equivalent Circuit



Rated Value (□: packaging code)

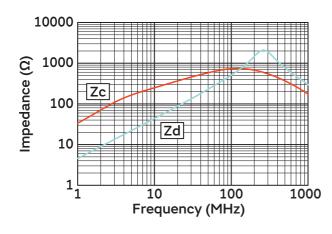
Part Number		Common Mode Impedance	Dated Current	Rated Voltage	Insulation Resistance	Withstanding	DC	
Infotainment	Powertrain/Safety	at 100MHz	Rateu Current	Rateu Voltage	(Min.)	Voltage	Resistance	
1259CM-0001	_	700Ω(Typ.)	5A	50Vdc	100ΜΩ	100Vdc	0.01Ω max.	

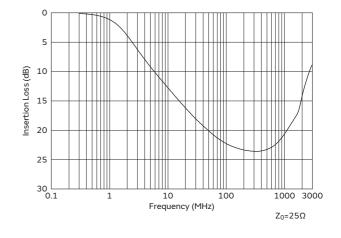
Operating Temp. Range: -40°C to 125°C

Operating temperature should include self-temperature rise.

Z-f characteristics: UCMH0907 series







Chip Common Mode Choke Coil (DL□ Series) ∴Caution/Notice



Rating

Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance. Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure our product.

Soldering and Mounting

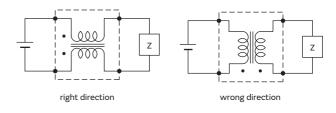
1. Self-heating

Please provide special attention when mounting chip common mode choke coils DLW5 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.

Mounting Direction
 Mount Chip Common Mode Choke Coils in right direction.
 Wrong direction, which is 90 degrees rotated from right

direction, causes not only open or short circuit but also flames or other serious trouble.



Notice

Storage and Operating Condition

<Operating Environment>

Do not use products in the corrodible atmosphere such as acidic gases, alkaline gases, chlorine, sulfur gases, organic gases. (the sea breeze, Cl₂, H₂S, NH₃, SO₂, NO₂,etc)
Do not use products in the environment close to the organic solvent.

- <Storage and Handling Requirements>
- 1. Storage Period

The DL series should be used within 12 months. Solderability should be checked if this period is exceeded.

- 2. Storage Conditions
 - 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 ${\sf EMIFIL}^{\circledR}$ 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.

Continued from the preceding page.

Handling

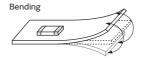
- Resin Coating (Except for DLW Series.)
 Using resin for coating/molding products may affect the products performance.
 So please pay careful attention in selecting resin.
 Prior to use, please make the reliability evaluation with the product mounted in your application set.
- 2. Resin Coating (DLW315 Series)
 Do not make any resin coating DLW315 series.
 The impedance value may change due to high cure-stress of resin to be used for coating/molding products.
 An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc. Some resin contains some impurities or chloride possible to generate chlorine by hydrolysis under some operating condition may cause corrosion of wire of coil, leading to open circuit.
 So, please pay your careful attention in selecting resin in case of coating/molding the products with the resin.
- 3. Resin Coating (Except DLW31S Series)
 The impedance value may change due to high cure-stress of resin to be used for coating/molding products. An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc. Some resin contains some impurities or chloride possible to generate chlorine by hydrolysis under some operating condition may cause corrosion of wire of coil, leading to open circuit.

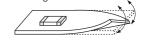
So, please pay your careful attention in selecting resin in case of coating/molding the products with the resin. Prior to use the coating resin, please make sure no reliability issue is observed by evaluating products mounted on your board.

When you hold products with a tweezer, please hold by the sides. Sharp materials, such as a pair of tweezers, should not touch the winding portion to

4. Caution for Use (DLW Series)

- prevent breaking the wire. Mechanical shock should not be applied to the products mounted on the board to prevent breaking the core.
- 5. Brushing (DLW21S/31S/32S/43S/43M Series) When you clean the neighborhood of products such as connector pins, bristles of cleaning brush shall not be touched to the winding portion of this product to prevent the breaking of wire.
- 6. 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.





Twisting



Chip Common Mode Choke Coil (PL□ Series) ∴Caution/Notice

● (Caution

Rating

- 1. Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.
- Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure our product.

Soldering and Mounting

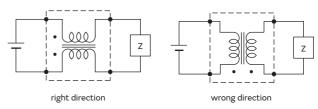
1. Self-heating

Please provide special attention when mounting chip common mode choke coils 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.

Mounting DirectionMount Chip Common Mode Choke Coils in right direction.

Wrong direction, which is 90 degrees rotated from right direction, causes not only open or short circuit but also flames or other serious trouble.



Notice

Storage and Operating Condition

<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>
- Storage Period
 PLT10H series, PLT5BP series should be used within 12 months.

Solderability should be checked if this period is exceeded.

- 2. Storage Conditions
 - 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 ${\sf EMIFIL}^{\circledR}$ 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.

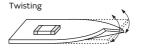
Handling

1. 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.







Chip Common Mode Choke Coil (UCMH□ Series) △Caution/Notice



Rating

Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance. Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure our product.

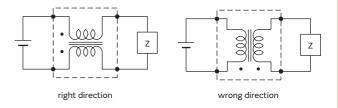
Soldering and Mounting

1. Self-heating

Please provide special attention when mounting this product close to other products that radiate heat. The heat generated by other products may deteriorate the insulation resistance and cause excessive heat in this component.

2. Mounting Direction

Mount Chip Common Mode Choke Coils in right direction. Wrong direction, which is 90 degrees rotated from right direction, causes not only open or short circuit but also flames or other serious trouble.





Handling

1. Resin Coating

The inductance value may change and / or it may affect on the product's performance due to high cure-stress of resin to be used for coating / molding products. So please pay your careful attention when you select resin. In prior to use, please make the reliability evaluation with the product mounted in your application set.

Chip Common Mode Choke Coil (DL Series) Soldering and Mounting

1. Standard Land Pattern Dimensions

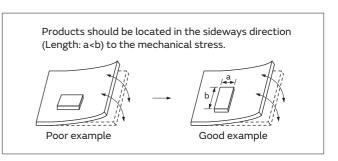
Land Pattern
+ Solder Resist
Land Pattern
Solder Resist (in mm)

Series Standard Land Dimensions DLM11S Reflow Soldering **DLW21S** DLM11S DLW21S/31S/32S/43S DLW21S/H 8.0 2.6 0.4 1.2 **DLW31S** DLW31S 1.6 3.7 0.4 1.6 DLW32S **DLW43S** DLW32S 2.0 4.1 1.6 DLW43M DLW43SH110/220/510 3.0 5.9 1.6 3.4 DLW5A DLW43SH101 1.6 3.4 DLW5B DLW43MH 3.5 5.9 0.7 a*3 2.1 b *1: If the pattern is made with wider than 1.2mm (DLW21) / 1.6mm (DLW31S) it may result in components turning DLW5A/5B (Except for DLW5AT_MQ2) around, because melting speed is different. In the worst case, short circuit between lines may occur. *2: If the pattern is made with less than specified dimensions, in the worst case, short circuit between lines may occur due to spread of soldering paste or mount placing 1.3 3.3 4.7 accuracy. *3: If the pattern is made with wider than 0.8mm (DLW21) / 1.6mm (DLW31SN), the bending strength will be reduced. Moreover, if the pattern is made with less than "a" 0.9 dimension, in the worst case short circuit may be occurred. 2.9 Do not use gild pattern; excess soldering heat may dissolve 5.5 metal of a copper wire. DLW5AT_MQ2 Reflow Soldering Chip Mounting Side Flow Soldering Chip Mounting Side DLW5AT_MQ2 DLW5AT_MQ2 1.3 3.3 1.3 6.0

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

0.9

2.9 5.5



1.9

6.9

Chip Common Mode Choke Coil (DL Series) Soldering and Mounting

Continued from the preceding page.

2. Solder Paste Printing and Adhesive Application

When reflow soldering the chip common mode choke coils, the printing must be conducted in accordance with the following cream solder printing conditions.

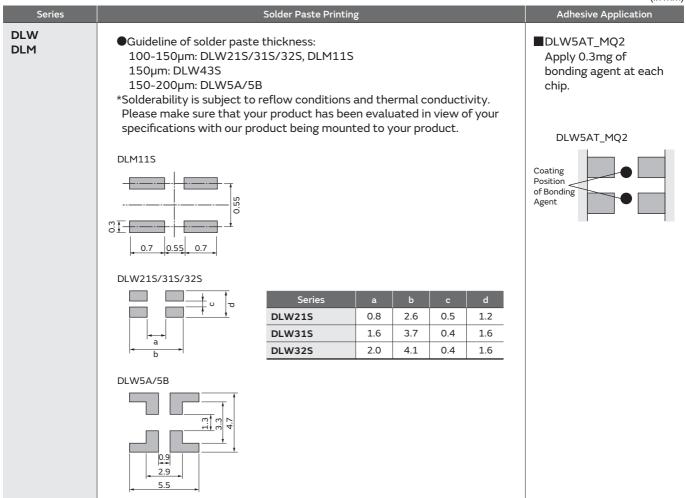
If too much solder is applied, the chip will be prone to damage by mechanical and thermal stress from the PCB and may crack.

Standard land dimensions should be used for resist and copper foil patterns.

When flow soldering the chip common mode choke coils, 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)



Block Type EMIFIL®

Chip Common Mode Choke Coil (DL□ Series) Soldering and Mounting

Continued from the preceding page.

3. Standard Soldering Conditions

(1) Soldering Methods

Use flow and reflow soldering methods only.
Use standard soldering conditions when soldering chip common mode choke coils.

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 DLM series with Sn-Zn based solder, please contact Murata in advance.

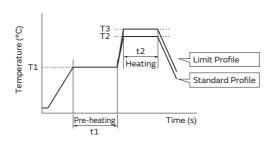
Flux:

- Use Rosin-based flux.
 - In case of DLW21/31/43 series, use Rosin-based flux with converting chlorine content of 0.06 to 0.1wt%. 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.

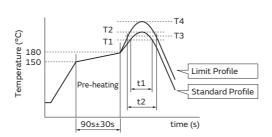
(2) Soldering Profile

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



	Pre-heating -		Sta	andard Profile	е	Limit Profile			
Series	Pie-iii	Fre-lieatilig		Heating		Heating		Cycle	
	Temp. (T1)	Time. (t1)	Temp. (T2)	Time. (t2)	of Flow	Temp. (T3)	Time. (t2)	of Flow	
DLW5AT_MQ2	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)



		Standar	d Profile		Limit Profile				
Series	Heating		Peak Temperature	Cycle	Hea	ting	Peak Temperature	Cycle	
	Temp. (T1)	Time. (t1)	(T2)	of Reflow	Temp. (T3)	Time. (t2)	(T4)	of Reflow	
DLM/ DLW21S/31S/43MH	220°C min.	30 to 60s	245±3°C	2 times max.	230°C min.	60s max.	260°C/10s	2 times max.	
DLW32S/43S	220°C min.	30 to 60s	245±3°C	2 times max.	240°C min.	30s max.	260°C/10s	2 times max.	
DLW5A/5B	220°C min.	30 to 60s	250±3°C	2 times max.	230°C min.	60s max.	260°C/10s	2 times max.	



Chip Common Mode Choke Coil (DL Series) Soldering and Mounting

Continued from the preceding page.

(3) Reworking with Solder Iron

The following conditions must be strictly followed when using a soldering iron.

Pre-heating: 150°C 60s min.

Soldering iron power output / Tip diameter:

30W max. / ø3mm max.

Temperature of soldering iron tip / Soldering time /

Times:

350°C max. / 3-4s / 2 times*1

*1 DLW31S/DLW43S: 350°C max. / 3s / 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 EMI filter.

Do not clean DLW series.

- (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.

Before cleaning, please contact Murata engineering.

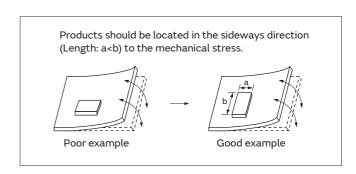
- (a) Alcohol cleaning agent Isopropyl alcohol (IPA)
- (b) Aqueous cleaning agent Pine Alpha ST-100S
- (4) Ensure that flux residue is completely removed. Component should be thoroughly dried after aqueous agent has been removed with deionized water.

Chip Common Mode Choke Coil (PL Series) Soldering and Mounting

1. Standard Land Pattern Dimensions

(in mm) Series Standard Land Dimensions PLT10H Copper Foil Pattern Reflow Soldering PLT5BP Copper Foil Pattern + Resist Resist PLT10H PLT5BP 2.4 8.0 4.0 7.0 4.0

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



2. Solder Paste Printing and Adhesive Application

When reflow soldering the chip common mode choke coils, 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.

Series	Solder Paste Printing
PLT10H PLT5BP	●Guideline of solder paste thickness: 150-200µm: PLT10H 150µm: PLT5BP For the solder paste printing pattern, use standard land dimensions.
	*Solderability is subject to reflow conditions and thermal conductivity. Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.

Chip Common Mode Choke Coil (PL Series) Soldering and Mounting

Continued from the preceding page.

3. Standard Soldering Conditions

(1) Soldering Methods

Use reflow soldering methods only.

Use standard soldering conditions when soldering chip common mode choke coils.

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.

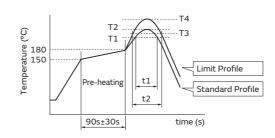
Flux:

- Use Rosin-based 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

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



		Standar	d Profile		Limit Profile				
Series	Heating		Peak Temperature	Cycle	Heating		Peak Temperature	Cycle	
	Temp. (T1)	Time. (t1)	(T2)	of Reflow	Temp. (T3)	Time. (t2)	(T4)	of Reflow	
PLT10H	220°C min.	30 to 60s	250±3°C	2 times max.	230°C min.	60s max.	260°C/10s	2 times max.	
PLT5BP	220°C min.	30 to 60s	245±3°C	2 times max.	240°C min.	30s max.	260°C/10s	2 times max.	

(3) Reworking with Solder Iron

The following conditions must be strictly followed when using a soldering iron.

Pre-heating: 150°C 60s min.

Soldering iron power output / Tip diameter:

80W max. / ø3mm max.: PLT10HH 30W max. / ø3mm max.: PLT5BP

Temperature of soldering iron tip / Soldering time / Times:

400°C max. / 5s / 2 times: PLT10HH 350°C max. / 3 to 4s / 2 times: PLT5BP

4. Cleaning

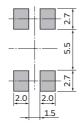
Do not clean after soldering.

Do not allow the tip of the soldering iron to directly contact the product.

For additional methods of reworking with a soldering iron, please contact Murata engineering.

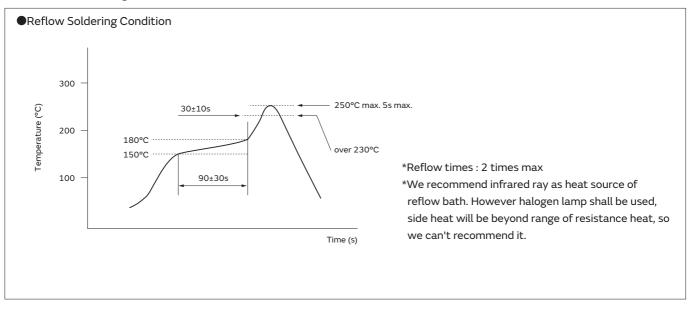
Chip Common Mode Choke Coil (UCMH Series) Soldering and Mounting

1. Standard Land Pattern Dimensions



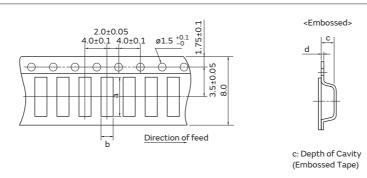
(in mm)

2. Standard Soldering Conditions



Chip Common Mode Choke Coil (DL□ Series) Packaging

Minimum Quantity and Dimensions of 8mm Width Embossed Tape

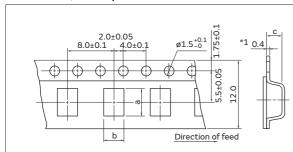


Dimension of the cavity of embossed tape is measured at the bottom side.

Dimensions —			Minimum Qty. (pcs.)						
Part Number		Dimensions			ø180	mm Reel	ø330	mm Reel	D. II.
	a	b	С	d	Paper Tape	Embossed Tape	Paper Tape	Embossed Tape	Bulk
DLM11S	1.4	1.15	0.65	0.25	-	4000	-	-	500
DLW21S	2.25	1.45	1.4	0.3	-	2000	-	-	500
DLW31S	3.6	2.0	2.1	0.3	-	2000	-	-	500
DLW32S	3.6	2.9	2.65	0.3	-	1500	-	-	500

(in mm)

Minimum Quantity and Dimensions of 12mm Width Embossed Tape



 ${\rm *1}\quad {\rm DLW43/DLW5AT:\,0.3}\quad c: {\rm Depth\,of\,Cavity}$ Dimension of the cavity is measured at the bottom side.

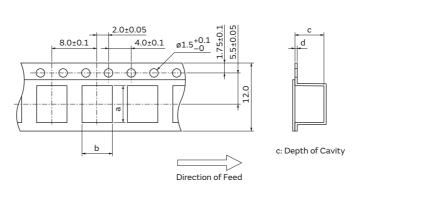
Part Number	Di	mensic	ns	Minimum Qty. (pcs.)				
Part Number	a b c		ø180mm Reel	ø330mm Reel	Bulk			
DLW43SH_XK	4.9	3.6	2.7	500	2500	100		
DLW43SH_XP	4.9	3.6	2.9	500	2500	100		
DLW5AT	5.4	4.1	2.7	700	2500	100		
DLW5BS	5.5	5.4	4.7	400	1500	100		
DLW5BT	5.5	5.5	2.7	700	2500	100		
DLW43MH	4.9	3.6	3.0	500	2500	100		

(in mm)

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

Chip Common Mode Choke Coil (PL□ Series) Packaging

Minimum Quantity and Dimensions of 12mm Width Embossed Tape

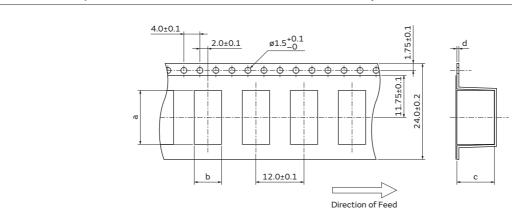


Dimension of the cavity is measured at the bottom side.

Part Number		Dime	nsions		Minimum Qty. (pcs.)			
Part Number	a	b	С	d	ø180mm Reel	ø330mm Reel	Bulk	
PLT5BP	6.5	5.35	5.1	0.4	300	-	50	

(in mm)

Minimum Quantity and Dimensions of 24mm Width Embossed Tape



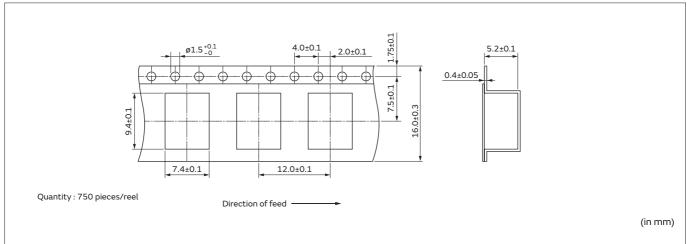
Dimension of the cavity is measured at the bottom side.

David Named and		Dime	nsions	Minimum Qty. (pcs.)			
Part Number	a	b	С	d	ø180mm Reel	ø330mm Reel	Bulk
PLT10H	13.5	6.8	9.4	0.5	125	500	50

(in mm)

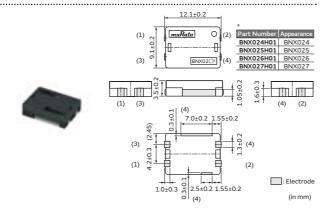
Chip Common Mode Choke Coil (UCMH□ Series) Packaging

Tape dimensions





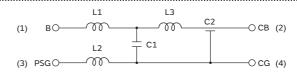
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	400
K	ø330mm Embossed Taping	1500
В	Packing in Bulk	100

Equivalent Circuit



(1)-(4): Terminal Number PSG: Power Supply Ground CG: Circuit Ground CB: Circuit+B

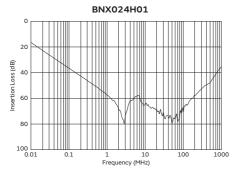
Rated Value (□: packaging code)

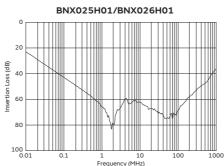
Part N	lumber	Rated	Withstand	Rated	Insulation	Insertion Loss	
For Infotainment	For Powertrain/Safety	Voltage	Voltage	Current	Resistance (min.)	Hisercion Loss	
_	BNX024H01□	50Vdc	125Vdc	20A	100ΜΩ	100kHz to 1GHz:35dB min. (Line impedance=50Ω)	
_	BNX025H01□	25Vdc	62.5Vdc	20A	50ΜΩ	50kHz to 1GHz:35dB min. (Line impedance=50Ω)	
_	BNX026H01□	50Vdc	125Vdc	20A	10ΜΩ	50kHz to 1GHz:35dB min. (Line impedance=50Ω)	
_	BNX027H01□	16Vdc	40Vdc	20A	1ΜΩ	40kHz to 1GHz:35dB min. (Line impedance=50Ω)	

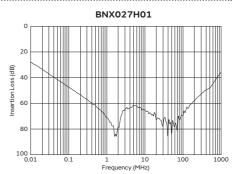
Operating Temperature Range: -55°C to +125°C

In operating temperatures exceeding +85°C, derating of current is necessary.

Insertion Loss Characteristics (Main Items)







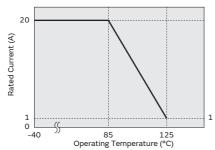


Continued from the preceding page. \searrow

Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for BNX024H/025H/026H/027H series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Block Type EMIFIL® SMD Type (BNX Series) 🗘 Caution/Notice



Rating

Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.

Fail-safe

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

ESD

ESD to this product, exceeding condition of IEC61000-4-2 with 30kV, may cause short circuit and fuming or firing.

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>
- Storage Period
 BNX series should be used within 12 months.

Solderability should be checked if this period is exceeded.

- 2. Storage Conditions
 - 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)

- Cleaning
 Do not clean BNX series (SMD Type).
- Soldering
 Reliability decreases with improper soldering methods.

 Please solder by the standard soldering conditions shown in mounting information.
- 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.

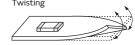
2. Handling of a Substrate (for BNX02□)

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.

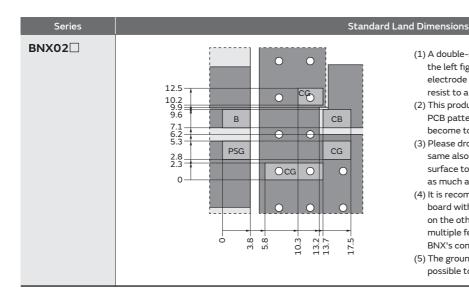
Bending



Block Type EMIFIL® SMD Type (BNX Series) Soldering and Mounting

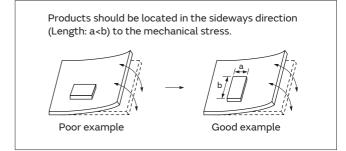
1. Standard Land Pattern Dimensions





- (1) A double-sided print board (or multilayer board) as shown in the left figure is designed, and please apply a soldering Cu electrode with a product electrode to a "Land Pattern", apply resist to a "Land Pattern + Solder Resist" at Cu electrode.
- (2) This product is designed to meet large current. Please design PCB pattern which is connected to this product not to become too hot by applied large current.
- (3) Please drop CG on a ground electrode on the back layer (the same also in a multilayer case) by the through hole. And a surface to ground electrode layer may also take a large area as much as possible.
- (4) It is recommended to use a double-sided printed circuit board with BNX mounting on one side and the ground pattern on the other in order to maximize filtering performance, multiple feed through holes are required to maximize the BNX's connection to ground.
 - (5) The ground pattern should be designed to be as large as possible to achieve maximum filtering performance.
- PCB Warping (for BNX02
)

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

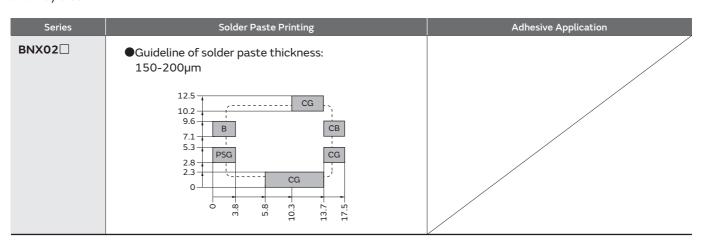


2. Solder Paste Printing and Adhesive Application

When reflow soldering the block type $\mathsf{EMIFIL}^{\circledR}$, 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.



Continued on the following page. 🖊

Block Type EMIFIL® SMD Type (BNX Series) Soldering and Mounting

Continued from the preceding page. \searrow

3. Standard Soldering Conditions

(1) Soldering Methods

Use reflow soldering methods only.

Use standard soldering conditions when soldering block type $\mathsf{EMIFIL}^{\circledR}$ SMD type.

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.

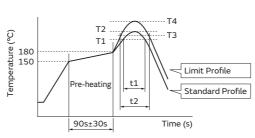
Flux:

- 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

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



	Standard Profile			Limit Profile				
Series	Heating		Peak Temperature Cycle	Heating		Peak Temperature	Cycle	
	Temp. (T1)	Time. (t1)	(T2)	of Reflow	Temp. (T3)	Time. (t2)	(T4)	of Reflow
BNX02□	220°C min.	30 to 60s	250±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.

Pre-heating: 150°C 60s min.

Soldering iron power output: 100W max.

Temperature of soldering iron tip / Soldering time /

Times:

450°C max. / 5s max. / 2 time

Do not allow the tip of the soldering iron to directly contact the chip.

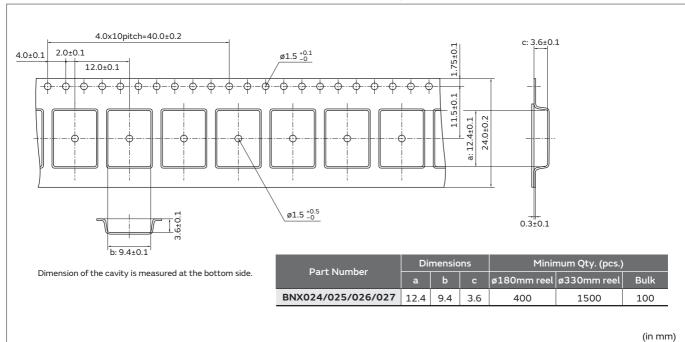
For additional methods of reworking with a soldering iron, please contact Murata engineering.

4. Cleaning

Do not clean BNX02 series, or inner humidity protect material will be damaged, results product's insulation resistance getting worse.

Block Type EMIFIL® SMD Type (BNX Series) Packaging

Minimum Quantity and Dimensions of 24mm Width Embossed Tape



 $[&]quot;Minimum\ Quantity"\ means\ the\ number\ of\ units\ of\ each\ delivery\ or\ order.\ The\ quantity\ should\ be\ an\ integral\ multiple\ of\ the\ "Minimum\ Quantity."$



Part Numbering

Leaded Multilayer Ferrite Beads for Automotive

(Part Number) BL L 18 AG 121 DB E1 H 01 A

1 Product ID

Product ID	
BL	Ferrite Beads

2Туре

Code	Туре
L	Lead Type

3Built-in Chip Dimensions

	Code	Dimensions (LxW)	Size Code (inch)
ĺ	18	1.6x0.8mm	0603

4Characteristics/Applications

Code	Characteristics/Applications
AG	For General Signal

5Impedance

Typical impedance at 100MHz is 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 that follow the two figures.

6Lead Type/**10**Packaging

Code		Lead		De else sisses	
6	10	Lead Type	Length* (mm)	Packaging	
A2	В	Straight	28.0±1.0	Bulk	
DB	Α		20.0±1.0	Ammo Pack	

 $[\]star Lead$ distance between reference and bottom planes except for Bulk.

Category

Code	Category
E1	Expressed by a letter and numbers

8 Features

Code	Circuit		
Н	For Automotive	Powertrain, Safety	

9Individual Specification Code

Code	Lead Material
01	CP Line
02	Cu Line

Disc Type $\mathsf{EMIFIL}^{\circledR}$ for Automotive

(Part Number) DS S 1 Z B3 2A 220 Q55 B 2 3 4 5 6 7 8 9

1Product ID

Product ID	
DS	Three-terminal Capacitor

2Structure

Code	Structure
S	Built-in Ferrite Beads Type

Style

Code	Style
1	Expressed by a letter.

4Category

Code	Category	
Z	For Automotive	Infotainment

5Temperature Characteristics

Code	Capacitance Change
В3	±10% (Temperature Range: -25°C to +85°C)

6 Rated Voltage

Code	Rated Voltage
1H	50V
2A	100V

Capacitance

Expressed by three alphanumerics. The unit is in pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

3Lead Type/**9**Packaging

Code	Lead Type	Lead Length* (mm)	Packaging	Series
Q55B		25.0 min.	Bulk	
Q91A	Ctualabt	20.0±1.0		DSS1
Q92A	Straight	16.5±1.0	Ammo Pack	D221
Q93A		18.5±1.0		

^{*}Lead Distance between Reference and Bottom Planes Except for Bulk.

$\mathsf{EMIGUARD}^{\circledR}$ ($\mathsf{EMIFIL}^{\circledR}$ with Varistor Function) for Automotive

①Product ID

Product ID	
VF	EMIGUARD [®] Lead Type

2Structure

Code	Structure
С	Built-in Capacitor

Style

Code	Style
2	Size is expressed by a digit

4 Features

Code	Features	
н	For Automotive	Powertrain, Safety

5Temperature Characteristics

Code	Capacitance Change
R7	±15% (-55°C to +125°C)

①Lead Type/①Packaging

Code	Lead Type	Lead Length*	Packaging	Series
M1A	Inside Crimp	18.0±1.0mm	Ammo Pack	VFC2

^{*}From bottom of the crimp.

6 Rated Voltage

Code	Rated Voltage
1D	22V

Capacitance

Expressed by three alphanumerics. The unit is in pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

8 Capacitance Tolerance

Code	Capacitance Tolerance
К	±10%

9Varistor Voltage

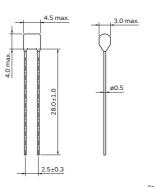
Code	Varistor Voltage
2	27V

Leaded Multilayer Ferrite Beads Lead Type

BLL18AG Series

Appearance/Dimensions





(in mn

Packaging

Code	Packaging	Minimum Quantity
В	Packing in Bulk	500
Α	Ammo Pack	2000

Equivalent Circuit



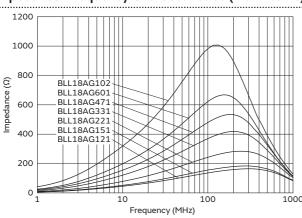
(Resistance element becomes dominant at high frequencies.)

Rated Value (□: packaging code)

Part Number		Impedance	Rated Current	DC Resistance	Operating Temperature	
For Infotainment	For Powertrain/Safety	(at 100MHz/20°C)	Rated Current	DC Resistance	Range	
_	BLL18AG121A2E1H01B	120Ω±40%	200mA	0.5Ω max.	-40°C to +150°C	
_	BLL18AG121DBE1H01A	120Ω±40%	200mA	0.5Ω max.	-40°C to +150°C	
_	BLL18AG151A2E1H01B	150Ω±40%	200mA	0.55Ω max.	-40°C to +150°C	
_	BLL18AG151DBE1H01A	150Ω±40%	200mA	0.55Ω max.	-40°C to +150°C	
_	BLL18AG221A2E1H01B	220Ω±40%	200mA	0.55Ω max.	-40°C to +150°C	
_	BLL18AG221DBE1H01A	220Ω±40%	200mA	0.55Ω max.	-40°C to +150°C	
_	BLL18AG331A2E1H01B	330Ω±40%	200mA	0.6Ω max.	-40°C to +150°C	
_	BLL18AG331DBE1H01A	330Ω±40%	200mA	0.6Ω max.	-40°C to +150°C	
_	BLL18AG471A2E1H01B	470Ω±40%	200mA	0.65Ω max.	-40°C to +150°C	
_	BLL18AG471DBE1H01A	470Ω±40%	200mA	0.65Ω max.	-40°C to +150°C	
_	BLL18AG601A2E1H01B	600Ω±40%	200mA	0.7Ω max.	-40°C to +150°C	
_	BLL18AG601DBE1H01A	600Ω±40%	200mA	0.7Ω max.	-40°C to +150°C	
_	BLL18AG102A2E1H01B	1000Ω±40%	200mA	0.8Ω max.	-40°C to +150°C	
_	BLL18AG102DBE1H01A	1000Ω±40%	200mA	0.8Ω max.	-40°C to +150°C	

Number of Circuits: 1

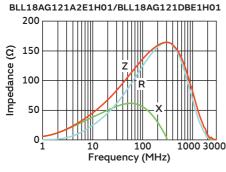
Impedance-Frequency Characteristics (Main Items)

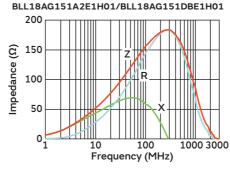


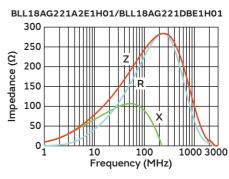
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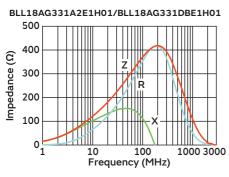
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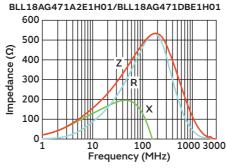
Impedance-Frequency Characteristics

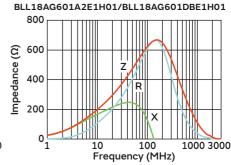


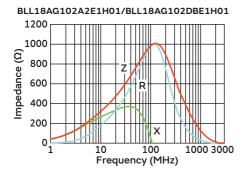








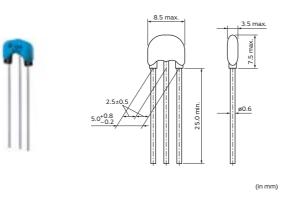




■ EMIFIL[®] Lead Type

DSS1 Series

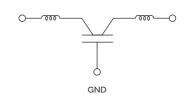
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
В	Packing in Bulk	250
Α	Ammo Pack	1500

Equivalent Circuit



No Polarity.

Rated Value (□: packaging code)

Part N	umber				Operating
For Infotainment	For Powertrain/Safety	Capacitance	Rated Current	Rated Voltage	Temperature Range
DSS1ZB32A220Q55B	_	22pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A220Q91A	_	22pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A220Q92A	_	22pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A220Q93A	_	22pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A330Q55B	_	33pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A330Q91A	_	33pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A330Q92A	_	33pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A330Q93A	_	33pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A470Q55B	_	47pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A470Q91A	_	47pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A470Q92A	_	47pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A470Q93A	_	47pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A680Q55B	-	68pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A680Q91A	-	68pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A680Q92A	-	68pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A680Q93A	-	68pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A101Q55B	I	100pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A101Q91A	_	100pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A101Q92A	_	100pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A101Q93A	_	100pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A121Q55B	_	120pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A121Q91A	_	120pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A121Q92A	_	120pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A121Q93A	_	120pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A151Q55B	_	150pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A151Q91A	_	150pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A151Q92A	_	150pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A151Q93A	_	150pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A221Q55B	_	220pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A221Q91A	_	220pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A221Q92A	_	220pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A221Q93A	_	220pF±10%	6A	100Vdc	-40°C to +85°C

Number of Circuit: 1

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Part N	lumber	Canacitanas	Rated Current	Rated Voltage	Operating
For Infotainment	For Powertrain/Safety	- Capacitance	Rated Current	Rated Voltage	Temperature Range
DSS1ZB32A271Q55B	_	270pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A271Q91A	_	270pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A271Q92A	_	270pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A271Q93A	_	270pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A331Q55B	_	330pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A331Q91A	_	330pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A331Q92A	_	330pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A331Q93A	_	330pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A471Q55B	_	470pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A471Q91A	_	470pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A471Q92A	_	470pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A471Q93A	_	470pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A681Q55B	_	680pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A681Q91A	_	680pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A681Q92A	_	680pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A681Q93A	_	680pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A102Q55B	_	1000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A102Q91A	_	1000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A102Q92A	_	1000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A102Q93A	_	1000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A152Q55B	_	1500pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A152Q91A	_	1500pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A152Q92A	_	1500pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A152Q93A	_	1500pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A222Q55B	_	2200pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A222Q91A	_	2200pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A222Q92A	_	2200pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A222Q93A	_	2200pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A332Q55B	_	3300pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A332Q91A	_	3300pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A332Q92A	_	3300pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A332Q93A	_	3300pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A472Q55B	_	4700pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A472Q91A	_	4700pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A472Q92A	_	4700pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A472Q93A	_	4700pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A682Q55B	_	6800pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A682Q91A	_	6800pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A682Q92A	_	6800pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A682Q93A	_	6800pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A103Q55B	_	10000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A103Q91A	_	10000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A103Q92A	_	10000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A103Q93A	_	10000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A153Q55B	_	15000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A153Q91A	_	15000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A153Q92A	_	15000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A153Q93A	_	15000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A223Q55B	_	22000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A223Q91A	_	22000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A223Q92A	_	22000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB32A223Q93A	_	22000pF±10%	6A	100Vdc	-40°C to +85°C
DSS1ZB31H333Q55B	_	33000pF±10%	6A	50Vdc	-40°C to +85°C
Number of Circuit: 1		1 2 2	<u> </u>		1

Number of Circuit: 1

Continued on the following page. 🖊

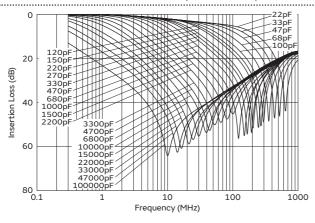


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Part Number		Capacitance	Rated Current	Rated Voltage	Operating
For Infotainment	For Powertrain/Safety	Capacitance	Rated Current	Rateu voitage	Temperature Range
DSS1ZB31H333Q91A	_	33000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H333Q92A	_	33000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H333Q93A	_	33000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H473Q55B	_	47000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H473Q91A	_	47000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H473Q92A	_	47000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H473Q93A	_	47000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H104Q55B	_	100000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H104Q91A	_	100000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H104Q92A	_	100000pF±10%	6A	50Vdc	-40°C to +85°C
DSS1ZB31H104Q93A	_	100000pF±10%	6A	50Vdc	-40°C to +85°C

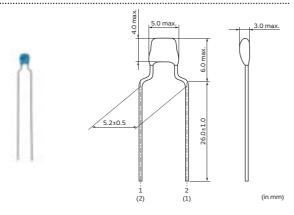
Number of Circuit: 1

Insertion Loss Characteristics (Main Items)



► EMIGUARD® (EMIFIL® with Varistor Function) Lead Type VFC2 Series

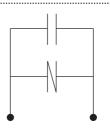
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
Α	Ammo Pack	2000

Equivalent Circuit



Rated Value (□: packaging code)

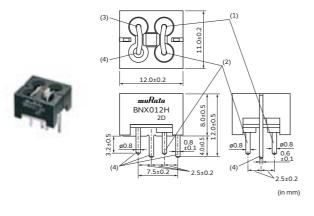
Par	t Number	Varistor Capacitance		Temperature	Rated	Insulation
For Infotainment	For Powertrain/Safety	Voltage	Capacitance	Characteistics	Voltage	Resistance (min.)
_	VFC2HR71D105K2M1□	27Vdc +5/-3V	1.0μF ±10%	R7 (±15%)	22Vdc	1ΜΩ

Operating Temperature Range: -55°C to +125°C

● Block Type EMIFIL[®] Lead Type

BNX012 Series

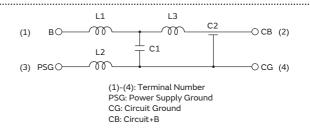
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
-	Box	150

Equivalent Circuit



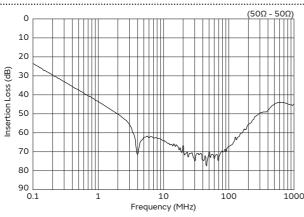
Rated Value (□: packaging code)

Part N	Number	Rated	Withstand	Rated	Insulation	Insertion Loss	
For Infotainment	For Powertrain/Safety	Voltage	Voltage	Current	Resistance (min.)	insertion Loss	
_	BNX012H01	50Vdc	125Vdc	15A	500ΜΩ	1MHz to 1GHz:40dB min. (Line impedance=50Ω)	

Operating Temperature Range: -55°C to +125°C

In operating temperatures exceeding +85°C, derating of current is necessary.

Insertion Loss Characteristics (Main Items)



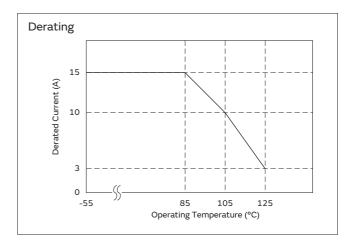
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Derating of Rated current

Rating

In operating temperatures exceeding +85°C, derating of current is necessary for BNX012H series. Please apply the derating curve shown in chart according to the operating temperature.



BNX **Power Supply** Circuit (BNX Input) (BNX Output) СВ Power Supply + Bias Load Circuit + Bias PSG Power Supply Ground CG Load Circuit Ground В СВ ${\sf Power \, Supply - Bias}$ Load Circuit — Bias PSG CG Power Supply Ground Load Circuit Ground

Connecting ± Power Line

In case of using ± power line, please connect to each terminal as shown.

Leaded Multilayer Ferrite Beads (BLL□ Series) △Caution/Notice



Rating

Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.

Soldering and Mounting

- 1. Bonding, resin molding and coating
 In case of bonding, molding or coating this product, verify that these processes do not affect the quality of the capacitor by testing the performance of the bonded, molded or coated product in the intended equipment.
 In case the amount of application, dryness / hardening conditions of adhesives and molding resins containing organic solvents (ethyl acetate, methyl ethyl ketone, toluene, etc.) are unsuitable, the outer coating resin of a capacitor may be damaged by the organic solvents and may result, worst case, in a short circuit.

 The variation in thickness of adhesive or molding resin or coating may cause an outer coating resins cracking and / or ceramic element cracking of this product in a temperature cycling.
- Treatment after bonding, resin molding and coating When the outer coating is hot (over 100 degrees centigrade) after soldering, it becomes soft san fragile, so please be careful not to give it mechanical stress.
- Mounting holes
 Mounting holes should be designed as specified in this specifications.
 Or different design from this specifications may cause cracks in ceramics which may lead to smoking / firing.
- 4. Caution for the product angle adjust work Take care not to apply any mechanical stress to product body at the lead terminal bending process for product angle adjustment after insertion.

Notice

Storage and Operating Condition

- 1. Operating Environment
 - (1) Do not use products in corrosive gases such as chlorine gas, acid or sulfide gas.
 - (2) Do not use products in the environment where water, oil or organic solvents may adhere to products.
 - (3) Do not adhere any resin to products, coat nor mold products with any resin (including adhesive) to prevent mechanical and chemical stress on products.
- 2. Storage period

Use the products within 12 months after delivered. Solderability should be checked if this period is exceeded.

- 3. Storage Conditions
 - Storage temperature: -10 to +40 degree 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.

Soldering and Mounting

1. Washing

Failure and degradation of a product are causedby the washing method. When you wash in conditions that are not in the mounting information, please contact Murata engineering.

2. Soldering

Reliability decreases with improper soldering methods. Please solder by the standard soldering conditions shown in the mounting information.

EMIFIL® Lead Type (DS□/VF□ Series) ①Caution/Notice

● (Caution

Rating

- 1. Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.
- 2. Products should not be applied for the absorption of surge which have large energy (ex. Included lighting surge, switching surges) because it is designed for the absorption of electrostatic surges, or it results cracks in ceramics which may lead to smoking / firing.

Soldering and Mounting

- Mounting holes should be designed as specified in these specifications. Other designs than those shown in these specifications may cause cracks in ceramics that may lead to smoking or firing.
- 2. Take care not to apply any mechanical stress to product body at the lead terminal bending process for product angle adjustment after insertion.

● Notice

Storage and Operating Conditions

- <Operating Environment>
- 1. Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.
- Do not use products near water, oil or organic solvents.Avoid environments where dust or dirt may adhere to the product.
- Do not adhere any resin to products, coat nor mold products with any resin (including adhesive) to prevent mechanical and chemical stress on products.
- <Storage and Handling Requirements>
- Storage Period
 Use the products within 12 months after delivery.
 Solderability should be checked if this period is exceeded.

- 2. Storage Conditions
 - Storage temperature: -10 to 40 degrees 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.
- <using EMIGUARD® effectively>
- 1. Products should be used at rated voltage or less and rated current or less.

Soldering and Mounting

- 1. Washing
 - Failure and degradation of a product are causedby the washing method. When you wash in conditions that are not in the mounting information, please contact Murata engineering.
- Soldering
 Reliability decreases with improper soldering methods.

 Please solder by the standard soldering conditions shown in the 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, lead wire length, 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.

Block Type EMIFIL[®] Lead Type (BNX Series) **①Caution/Notice**



Rating

Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.

Fail-safe

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.



Storage and Operating Conditions

- <Operating Environment>
- 1. Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.
- 2. Do not use products near water, oil or organic solvents.
- <Storage and Handling Requirements>
- Storage Period
 BNX Series should be used within 12 months.

 Solderability should be checked if this period is exceeded.
- 2. Storage Conditions
 - 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, lead wire length, 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.

Notice (Appearance)

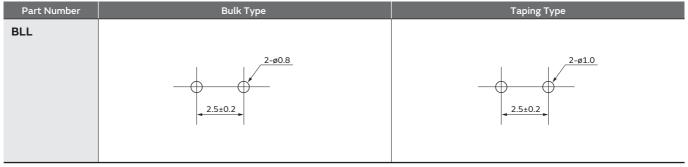
Although some part of the product surface seems to be white in some cases, do not care because it is the result of waxing process for humidity resistance improvement. This wax does not make bad affection to mechanical or electrical performance, reliability of the product.

Leaded Multilayer Ferrite Beads (BLL Series) Soldering and Mounting

1. Mounting Hole

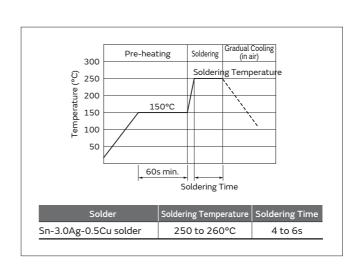
Mounting holes should be designed as specified below.

(in mm)



2. Soldering

- (1) Use Sn-3.0Ag-0.5Cu solder.
- (2) Use Rosin-based flux. Do not use strong acidic flux with halide content exceeding 0.2wt% (chlorine conversion value).
- (3) Products and the leads should not be subjected to any mechanical stress during the soldering process, or while subjected to the equivalent high temperatures.
- (4) Standard flow soldering profile.



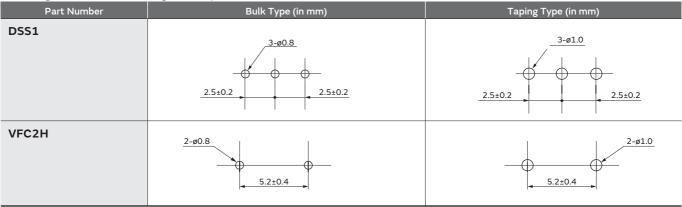
3. Cleaning Conditions

(1) Do not clean after soldering. If cleaning, please contact us.

EMIFIL[®] Lead Type (DS□/VF□ Series) Soldering and Mounting

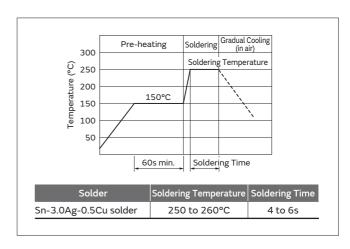
1. Mounting Hole

Mounting holes should be designed as specified below.



2. Soldering

- (1) Use Sn-3.0Ag-0.5Cu solder.
- (2) Use Rosin-based flux. Do not use strong acidic flux with halide content exceeding 0.2wt% (chlorine conversion value).
- (3) Products and the leads should not be subjected to any mechanical stress during the soldering process, or while subjected to the equivalent high temperatures.
- (4) Standard flow soldering profile.



3. Cleaning Conditions

Clean other parts in the following conditions.

- (1) Cleaning temperature should be limited to 60°C max. (40°C max for alcohol type cleaner).
- (2) Ultrasonic cleaning should comply with the following conditions, avoiding the resonance phenomenon at the mounted products and PCB.

Power: $20 \, \text{W} \, / \, l \, \text{max}$. Frequency: $28 \, \text{to} \, 40 \text{kHz}$ Time: $5 \, \text{min. max}$.

- (3) Cleaner
 - (a) Alcohol type cleaner Isopropyl alcohol (IPA)
 - (b) Aqueous agent (VFC2 series cannot be cleaned) PINE ALPHA ST-100S

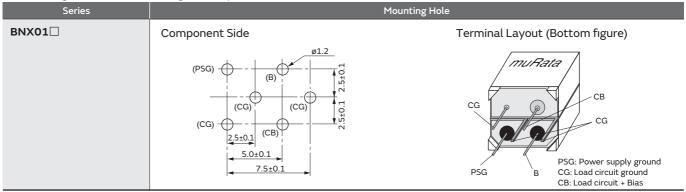
- (4) There should be no residual flux or residual cleaner left after cleaning.
 - In the case of using aqueous agent, products should be dried completely after rinsing with de-ionized water in order to remove the cleaner.
- (5) The surface of products may become dirty after cleaning, but there is no deterioration on mechanical, electrical characteristics and reliability.
- (6) Other cleaning: Please contact us.

SMD Type

Block Type EMIFIL® Lead Type (BNX Series) Soldering and Mounting

1. Mounting Hole

■ Mounting holes should be designed as specified below.



2. Using the Block Type EMIFIL® (Lead Type) Effectively

(1) How to use effectively

This product effectively prevents undesired radiation and external noise from going out / entering the circuit by grounding the high frequency components which cause noise problems. Therefore, grounding conditions may affect the performance of the filter and attention should be paid to the following for effective use.

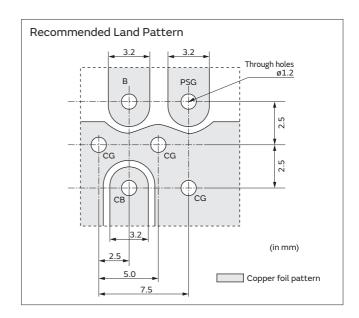
- (a) Design maximized grounding area in the P.C. board, and grounding pattern for all the grounding terminals of the product to be connected. (Please follow the specified recommendations.)
- (b) Minimize the distance between ground of the P.C. board and the ground plate of the product. (Recommend using the through hole connection between grounding area both of component side and bottom side.)
- (c) Insert the terminals into the holes on P.C. board completely.
- (d) Don't connect PSG terminal with CG terminal directly. (See the item 1. Terminal Layout)

(2) Self-heating

Though this product has a large rated current, localized selfheating may be caused depending on soldering conditions. To avoid this, attention should be paid to the following:

- (a) Use P.C. board with our recommendation on hole diameter / land pattern dimensions, mentioned in the right hand drawing, especially for 4 terminals which pass current.
- (b) Solder the terminals to the P.C. board with soldercover area at least 90%. Otherwise, excess self-heating at connection between terminals and P.C. board may lead to smoke and / or fire of the product even when operating at rated current.
- (c) After installing this product in your product, please make sure the self-heating is within the rated current recommended.

P. C. Board Patterns Use a bilateral P.C. board. Insert the BNX into the P.C.board until the root of the terminal is secured, then solder. (1) Component Side View (2) Bottom View PSG B PSG Shield plate CG CG CG CB Copper foil pattern



Continued on the following page. 🖊

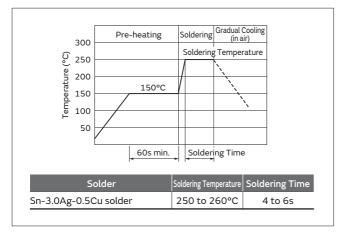


Block Type EMIFIL® Lead Type (BNX Series) Soldering and Mounting

Continued from the preceding page.

3. Soldering

- (1) Use Sn-3.0Ag-0.5Cu solder.
- (2) Use Rosin-based flux. Do not use strong acidic flux with halide content exceeding 0.2wt% (chlorine conversion value).
- (3) Products and the leads should not be subjected to any mechanical stress during the soldering process, or while subjected to the equivalent high temperatures.
- (4) Standard flow soldering profile



4. Cleaning

Clean the block Type EMIFIL® (Lead Type) in the following conditions.

- (1) Cleaning temperature should be limited to 60°C max. (40°C max for alcohol type cleaner).
- (2) Ultrasonic cleaning should comply with the following conditions, avoiding the resonance phenomenon at the mounted products and P.C.B.

Power: 20W/liter max. Frequency: 28 to 40kHz

Time: 5 min. max.

- (3) Cleaner
 - (a) Alcohol type cleaner Isopropyl alcohol (IPA)
 - (b) Aqueous agent Pine Alpha ST-100S

- (4) There should be no residual flux or residual cleaner left after cleaning.
 - In the case of using aqueous agent, products should be dried completely after rinsing with de-ionized water in order to remove the cleaner.
- (5) The surface of products may become dirty after cleaning, but there is no deterioration on mechanical, electrical characteristics and reliability.
- (6) Other cleaning: Please contact us.

Leaded Multilayer Ferrite Beads (BLL□ Series) Packaging

Minimum Quantity

Part Number	Minimum Order Quantity (order in sets only) (pcs.)				
	Ammo Pack	Bulk (Bag)			
BLL Series	2000	500			

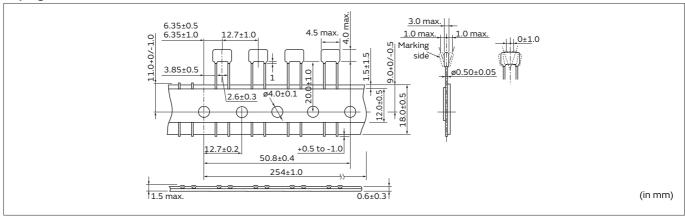
(in mm)

Lead Type Code

Lead Type Code Straight Type / Packaging	Lead Length * (mm)	Packaging
A2/B	28.0±1.0	Bulk
DB / A	20.0±1.0	Ammo Pack

 $^{\star}\text{Lead}$ distance between reference and bottom planes except for Bulk.

Taping Dimensions



Disc Type EMIFIL®/EMIGUARD® Lead Type (DS□/VF□ Series) Packaging

Minimum Quantity

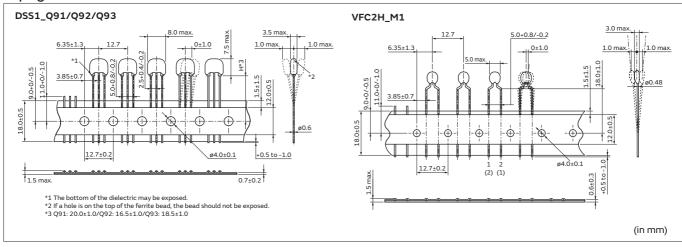
Part Number	Minimum Order Quantity (order in sets only) (pcs.)	
Part Number	Ammo Pack	Bulk (Bag)
VFC2H Series	2000	500
DSS1 Series	1500	250

Lead Type Code

Lead Type Code	Lead Length (H)	
Straight Type		
Q55B	25.0mm min.	
Q91A	20.0±1.0mm	
Q92A	16.5±1.0mm	
Q93A	18.5±1.0mm	

Lead Type Code	Lead Length (from bottom of the crimp)
K1B	26.0±1.0mm
M1A	18.0±1.0mm

Taping Dimensions



muRata

Part Numbering

Micro Chip Transformer for Automotive

1Product ID

Product ID	
DX	Micro Chip Transformer

2Structure

Code	Structure
W	Winding Type

3Dimensions (LxW)

Code	Dimensions (LxW)	Size Code (inch)
21	2.0x1.2mm	0805

4Type of Transformer

Code	Type of Transformer
В	Balun

GCategory

Code	Category	
Z	For Automotive	Infotainment

6Port Impedance

Code	Port Impedance
75	75Ω

Characteristics

Code	Impedance Ratio
11	one to one

8 Rough Frequency Range

Code	Rough Frequency Range
Т	50MHz to 870MHz
s	950MHz to 2150MHz

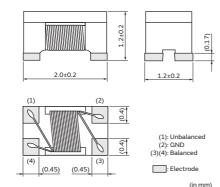
Packaging

Code	Packaging				
K	Embossed Taping (ø330mm Reel)				
L	Embossed Taping (ø180mm Reel)				
В	Bulk				

Microchip Transformer (Balun)

DXW21B Series 0805/2012 (inch/mm)

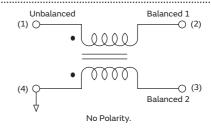
Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	2000
К	ø330mm Embossed Taping	10000
В	Packing in Bulk	500

Equivalent Circuit

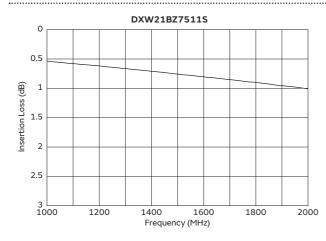


Rated Value (□: packaging code)

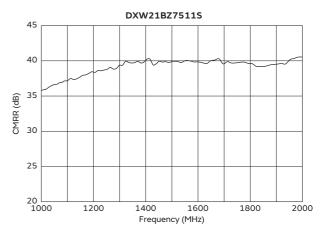
Part N	lumber	Fraguency Dange	Frequency Range Port Impedance		CMRR	Rated Power	
For Infotainment	For Powertrain/Safety	Frequency Range	Port impedance	at Freq. Range (max.)	at Freq. Range (min.)	Rated Power	
DXW21BZ7511S	_	1 to 1.5GHz	75Ω - 75Ω	1.4dB	20dB	27dBm	
DXW21BZ7511T	_	50 to 870MHz	75Ω - 75Ω	1.0dB	20dB	27dBm	

Operating Temperature Range: -40°C to +105°C $\,\,$ Only for reflow soldering.

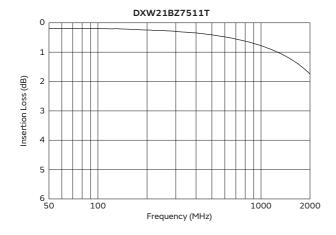
Insertion Loss Characteristics



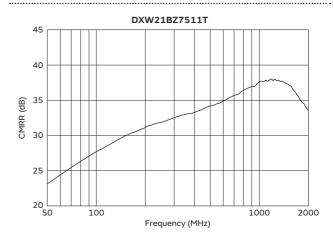
CMRR Characteristics



Insertion Loss Characteristics



CMRR Characteristics



Microchip Transformer (Balun) (DX□ Series) ①Caution/Notice



Rating

Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.

Soldering and Mounting

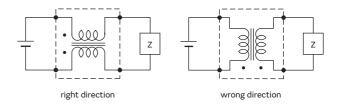
1. Self-heating

Please provide special attention when mounting chip Micro Chip Transformer (DXW) 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.

2. Mounting Direction

Mount Micro Chip Transformer in right direction. Wrong direction, which is 90 degree rotated from right direction, the characteristics does not come out as Micro Chip Transformer or causes not only open or short circuit but also flames or other serious trouble.



Notice

Storage and Operating Conditions

<Operating Environment>

Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.

- <Storage and Handling Requirements>
- 1. Storage Period DXW series should be used within 12 months. Solderability should be checked if this period is exceeded.
- 2. Storage Conditions
 - (1) Storage temperature: -10 to +40 degree 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.

Handling

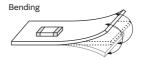
1. Resin Coating

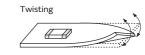
The impedance value may change due to high curestress of resin to be used for coating/molding products. An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc. Some resin contains some impurities or chloride possible to generate chlorine by hydrolysis under some operating condition may cause corrosion of wire of coil, leading to open circuit. So, please pay your careful attention in selecting resin in case of coating/molding the products with the resin. Prior to use the coating resin, please make sure no reliability issue is observed by evaluating products mounted on your board.

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.

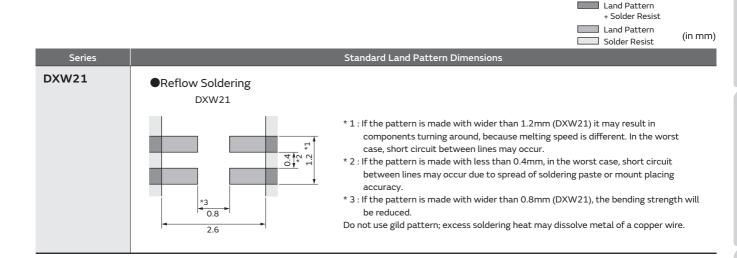
Excessive mechanical stress may cause cracking in the Product.





Microchip Transformer (Balun) (DX Series) Soldering and Mounting

1. Standard Land Pattern Dimensions



2. Solder Paste Printing and Adhesive Application

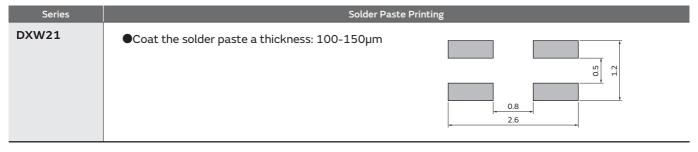
When reflow soldering the Micro Chip Transformer, the printing must be conducted in accordance with the following cream solder printing conditions.

If too much solder is applied, the chip will be prone to

damage by mechanical and thermal stress from the PCB

and may crack. In contrast, if too little solder is applied, there is the potential that the termination strength will be insufficient, creating the potential for detachment. Standard land dimensions should be used for resist and copper foil patterns.

(in mm)



3. Standard Soldering Conditions

(1) Soldering Methods

Use reflow soldering methods only.

Use standard soldering conditions when soldering Micro Chip Transformer.

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.

Flux

- Use Rosin-based flux, (with converting chlorine content 0.06 to 0.1(wt)%.), but not highly acidic flux (with Halogen content exceeding 0.2(wt)% conversion to chlorine).
- Do not use water-soluble flux.

Continued on the following page. 🖊

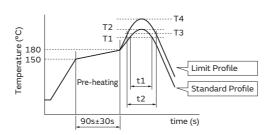


Microchip Transformer (Balun) (DX□ Series) Soldering and Mounting

Continued from the preceding page.

(2) Soldering profile

● Reflow Soldering profile (Sn-3.0Ag-0.5Cu)



Standard Profile					Limit Profile				
Series	Heating		Peak temperature	Cycle of reflow	Heating		Peak temperature	0 1 5 5	
	Temp. (T1)	Time. (t1)	(T2)	(T2) Cycle of reflow		Time. (t2)	(T4)	Cycle of reflow	
DXW	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.

Pre-heating : 150°C 60s min.

Soldering iron power output : 30W max.

Temperature of soldering iron tip / Soldering time :

350°C max./3s max.

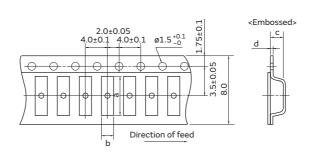
For additional methods of reworking with a soldering iron, please contact Murata engineering.

4. Cleaning

Do not clean.

Microchip Transformer (Balun) (DX□ Series) Packaging

Minimum Quantity and Dimensions of 8mm Width Embossed Tape



Dimension of the cavity is measured at the bottom side.

	Dimensions					Minimum Qty. (pcs.)	
Part Number	Dimensions		ø180mm reel	ø330mm reel	D. II.		
	a	b	С	d	Embossed Tape	Embossed Tape	Bulk
DXW21B	2.25	1.45	1.40	0.30	2000	10000	500

(in mm)

MEMO	

Product C	Guide ······	210
Indu	uctors for Power Lines	
Pi <u>(Î</u> So	art Numbering	p214 p304 p308
Indu	uctors for General Circuits	
Pi <u>(Î</u> So	art Numbering	p318 p327 p329
RF I	Inductors	
Pi <u>(Î</u> So	art Numbering	p338 p386 p388

Product Guide

	Structure	Series		Applications	Size Code	Inductan	ce Range	Rated Cur	rent Range
	Structure		01.1	• • • • • • • • • • • • • • • • • • • •	in inch (in mm)	Min.	Max.	Min.	Max.
		DFE201612P_D	p214	Info- tainment	0806 (2016)	150nH	2.2µH	1.7A	6.2A
		DFE252012P_D	p216	Info- tainment	1008 (2520)	330nH	4.7µH	1.9A	6A
	Wire Wound	DFEG7030D	p218	Power- train	2726 (7066)	1µH	22µH	2A	9.1A
	Metal Alloy Core	DFEH7030D	p220	Power- train	2726 (7066)	1µH	22µH	2A	9.1A
	Туре	DFEG10040D	p222	Power- train	4339 (109100)	1μH	47µH	2.9A	18A
		DFEH10040D	p224	Power- train	4339 (109100)	1µH	47µH	2.9A	18A
		DFEG12060D	p226	Power- train	5150 (130126)	1µH	47µH	3.6A	20A
		DFEH12060D	p228	Power- train	5150 (130126)	1µH	47µH	3.6A	20A
		LQH2MPZ_GR	p230	Info- tainment	0806 (2016)	330nH	82µH	210mA	2.2A
		LQH2HPZ_DR	p232	Info- tainment	1008 (2520)	470nH	22µH	270mA	1.67A
		LQH2HPZ_GR	p234	Info- tainment	1008 (2520)	470nH	22µH	460mA	2.9A
		LQH2HPZ_JR	p236	Info- tainment	1008 (2520)	470nH	22µH	540mA	3.5A
		LQH32CH_23	p238	Power- train	1210 (3225)	1μH	22µH	250mA	800mA
		LQH32CH_33	p239	Power-train	1210 (3225)	150nH	10µH	450mA	1.45A
		LQH32CH_53	p240	Power- train	1210 (3225)	1µH	22µH	250mA	1A
		LQH32DZ_23	p241	Info- tainment	1210 (3225)	1µH	470µH	60mA	800mA
		LQH32DZ_53	p242	Info- tainment	1210 (3225)	1µH	100µH	100mA	1A
		LQH32PZ_N0	p243	Info- tainment	1210 (3225)	470nH	120µH	200mA	3.4A
		LQH32PH_N0	p243	Power- train	1210 (3225)	470nH	10µH	750mA	3.4A
		LQH32PZ_NC	p245	Info- tainment	1210 (3225)	470nH	22µH	650mA	4.4A
		LQH32PH_NC	p245	Power- train	1210 (3225)	470nH	22µH	650mA	4.4A
		LQH3NPZ_GR	p247	Info- tainment	1212 (3030)	470nH	47µH	460mA	2.82A
	Wire Wound	LQH3NPZ_JR	p249	Info- tainment	1212 (3030)	680nH	47µH	570mA	2.86A
	Ferrite Core	LQH3NPZ_ME	p251	Info- tainment	1212 (3030)	1µH	100µH	430mA	3A
nes	Type	LQH44PZ_GR	p253	Info- tainment	1515 (4040)	680nH	47µH	410mA	2.5A
er		LQH43PZ_26	p255	Info- tainment	1812 (4532)	1µH	220µH	240mA	3.4A
No.		LQH43PH_26	p255	Power- train	1812 (4532)	1µH	220µH	240mA	3.4A
Inductors for Power Lines		LQH5BPZ_T0	p257	Info- tainment	2020 (5050)	470nH	22µH	1.4A	7.7A
tors		MBH6045C High Current	p259 p261	Power- train	2424 (6262)	1.5µH	220µH	480mA	6.3A
onpu		MBH6045C Low Rdc		Power-train	2424 (6262)	1μH	470µH	410mA	4.4A
		MDH6045C High Current	p263 p265	Power-train	2524 (6360)	1μH	220µH	440mA	5.8A
		MDH6045C Low Rdc	p267	Power- train	2524 (6360)	1.2µH	470µH	340mA	5.5A
		MBH7045C High Current	p269	Power- train	2828 (7272)	3.3µH	220µH	550mA	3.4A
		MBH7045C Low Rdc	p203	Power-train	2828 (7272)	3.3µH	1mH	310mA	3.5A
		MDH7045C	p273	Power- train	2928 (7470)	1μH	470µH	360mA	8.8A
		MDH10060C	p275	Power-	4039 (101100)	4.7µH	470µH	560mA	5.9A
		MBH10145C	p273	Power- train	4141 (104104)	3.3µH	1.5mH	330mA	4.9A
		MBH12282C	p279	Power- train	4949 (125125)	2µH	1mH	590mA	13A
		MDH12577C	p281	Power- train	5049 (128125)	4.7µH	470µH	1A	11A
		MBH12575C	p283	Power- train	5050 (128128)	2.7µH	220µH	1.2A	10A
		LQM18PZ_CH	p285		0603 (1608)	1µH	2.5µH	750mA	950mA
		LQM18PZ_DH	p286	Info- tainment	0603 (1608)	2.2µH	2.2µH	650mA	650mA
		LQM18PZ_FH	p287	Info- tainment	0603 (1608)	2.2µH	2.2µH	700mA	700mA
		LQM21PZ_C0	p289	Info- tainment Info- tainment	0805 (2012)	470nH	2.2µH	600mA	1.1A
		LQM21PZ_G0 LQM21PZ_GC	p291	Info- tainment	0805 (2012)	470nH	3.3µH	800mA	1.3A
		LQM21P2_GC LQM21PH_GC	p291	tainment Power-train	0805 (2012)	1μH	2.2µH	800mA	900mA 800mA
	Multilayer Type	LQM21PH_GC LQM21PZ_GR	p293	Info- tainment	0805 (2012) 0805 (2012)	2.2μH 1μH	2.2μH 4.7μH	800mA	
	r latellayer Type	LQM2IPZ_GR LQM2MPZ_G0	p295	Info- tainment	0805 (2012)	1μπ 470nH	4.7μH 4.7μH	800mA	1.3A
		LQM2MPZ_JH	p297	Info- tainment	0806 (2016)	100nH	4.7μπ 100nH	1.1A 4A	1.6A 4A
		LQM2HPZ_5H	p298	Info- tainment	1008 (2520)	560nH	560nH	1.5A	1.5A
		LQM2HPZ_G0	p299	Info- tainment	1008 (2520)	470nH	4.7µH	1.5A 1.1A	1.5A 1.8A
		LQM2HPZ_GC	p301	Info- tainment	1008 (2520)	1µH	4.7μH 4.7μH	800mA	1.8A 1.5A
		LQM2HPZ_GS	p302	Info- tainment	1008 (2520)	2.2µH	4.7μH 4.7μH	1A	1.5A 1.1A
		LQM2HPZ_G3	p303		1008 (2520)	2.2μH 1μH			
		EQITZHPZ_JU		Info- tainment	1000 (2320)	тип	3.3µH	1A	1.5A

			l	Size Code	Inductan	ce Range	Rated Cur	rent Range
	Structure	Series	Applications	in inch (in mm)	Min.	Max.	Min.	Max.
		LQG15HZ_02 p338	Info- tainment	0402 (1005)	1nH	270nH	110mA	1A
		LQG15HH_02 p338	Power- train	0402 (1005)	1nH	270nH	110mA	1A
	Multilayer Type	LQG15WZ_02 p341	Info- tainment	0402 (1005)	0.7nH	150nH	110mA	1.2A
		LQG15WH_02 p341	Power- train	0402 (1005)	0.7nH	150nH	110mA	1.2A
		LQG18HH_00 p347	Power- train	0603 (1608)	1.2nH	270nH	200mA	1.1A
	Film Type	LQP03TN_Z2 p349	Info- tainment	0201 (0603)	0.6nH	120nH	80mA	850mA
		LQW15AN_0Z p353	Info- tainment	0402 (1005)	1.5nH	120nH	110mA	1A
tors		LQW15AN_1Z p359	Info- tainment	0402 (1005)	1.3nH	8.4nH	640mA	1.2A
RF Inductors	Wire Wound	LQW15AN_8Z p361	Info- tainment	0402 (1005)	1.3nH	75nH	320mA	3.15A
품	Non-Magnetic Core	LQW18AN_0Z p368	Info- tainment	0603 (1608)	2.2nH	470nH	75mA	850mA
	Туре	LQW18AN_1Z p371	Info- tainment	0603 (1608)	2.2nH	33nH	550mA	1.4A
		LQW18AN_8Z p372	Info- tainment	0603 (1608)	2.2nH	390nH	190mA	3.2A
		LQW18AS_OZ p376	Info- tainment	0603 (1608)	1.6nH	390nH	100mA	700mA
		LQW15CN_0Z p379	Info- tainment	0402 (1005)	18nH	200nH	390mA	1.4A
	Wire Wound Ferrite Core	LQW15CN_1Z p381	Info- tainment	0402 (1005)	20nH	560nH	300mA	2.2A
	Type	LQW18CN_0Z p383	Info- tainment	0603 (1608)	4.9nH	650nH	430mA	2.6A
	<i>''</i>	LQH31HZ_03 p385	Info- tainment	1206 (3216)	54nH	880nH	180mA	920mA
		LQH32NZ_23 p318	Info- tainment	1210 (3225)	1μΗ	470µH	45mA	445mA
ts		LQH32NH_23 p318	Power- train	1210 (3225)	1μΗ	560µH	40mA	780mA
s for	Wire Wound	LQH43NZ_03 p320	Info- tainment	1812 (4532)	1μΗ	2.4mH	25mA	500mA
Inductors for General Circuits	Ferrite Core	HEAWS p323	Info- tainment	4241 (107104)	10μΗ	10µH	5A	5A
Indu	Туре	HEAW p324	Info- tainment	5551 (140130)	10μΗ	10µH	7.2A	7.2A
Ű		5CCEG p325	Info- tainment	2222 (5656)	Dlasss	rofor to the	product detai	Inago
		FSDVA p326	Info- tainment	2323 (5858)	Please	reier to the	product detai	ı page.



Part Numbering

Inductors for Power Lines for Automotive

(Part Number) LQ M 21 P Z R54 M G O D

1 Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

2Structure

Code	Structure			
Н	Wire Wound Type (Ferrite Core)			
М	Multilayer Type (Ferrite Core)			
W	Wire Wound Type (Ferrite Core)			

3Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
2M	2.0x1.6mm	0806
2H	2.5x2.0mm	1008
3N	3.0x3.0mm	1212
32	3.2x2.5mm	1210
43	4.5x3.2mm	1812
44	4.0x4.0mm	1515
5B	5.0x5.0mm	2020

4 Applications and Characteristics

Code	Series	Applications and Characteristics	
D	104	for Choke	
С	LQH	for Choke (Coating Type)	
P	LQM/LQH	for Power Line	
F	LQW	for Choke	

Gategory

Code	Series	Category		
Z	LQH/LQM	Automotive	Infotainment	
Н			Powertrain/Safety	
Т	LQW	Standard Type		

6Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (μ H). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than 0.1 μ H, the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits. For those products whose inductance values are specified using three designated digits, these values may be indicated using the closest two digits instead.

7 Inductance Tolerance

Code	Inductance Tolerance	
K	±10%	
М	±20%	
N	±30%	

③Features (Except for **LQH□□P/LQM□□P**)

	Code	Features	Series	
	0	Standard Type LQW		
	2	Standard Type	LQH32C/32D	
Ī	3	Low DC Resistance		
Ī	5	Low Profile Type		

8 Thickness

(LQH \square P/LQM \square P Only • Except for LQH43P)

Code	Nominal Dimensions (T)
С	0.5mm
D	0.6mm
E	0.7mm
F	0.8mm
G	0.9mm
J	1.1mm
М	1.4mm
N	1.55mm
Т	2.0mm

9Electrode (Except for LQH□□P/LQM□□P)

•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQM
3	LF Solder	LQH
н	Automotive Powertrain/Safety	LQW

Specification

(LQH□□P/LQM□□P Only • Except for LQH43P)

Code	Specification		
0/S	Standard Type		
С	Good Bias Current Characteristics Type		
H/E	High Spec Type (Low DC Resistance; Good Bias Current Characteristics Type)		
R	Low DC Resistance Type		

Continued on the following page. ${ \red 7 }$

Inductors for General Circuits

Continued from the preceding page. \searrow

89Thickness (**LQH43P** Only)

Code	Dimensions (T)
26	2.6mm

Packaging

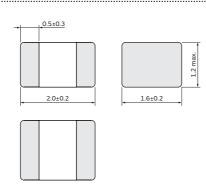
Code	Packaging		
K	Embossed Taping (ø330mm Reel)		
L	Embossed Taping (ø180mm Reel)		
В	Bulk		
D	Paper Taping (ø180mm Reel)		

Inductors for Power Lines

DFE201612P_D Series 0806 (2016) inch (mm)

(in mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity	
=P2	=P2 ø180mm Embossed Taping		





Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	Max. of DC Resistance
DFE201612PD-R15M□	_	0.15µH ±20%	1MHz	6200mA	5200mA	0.018Ω
DFE201612PD-R24M	_	0.24µH ±20%	1MHz	5000mA	4000mA	0.022Ω
DFE201612PD-R33M	_	0.33µH ±20%	1MHz	4500mA	3800mA	0.026Ω
DFE201612PD-R47M□	_	0.47µH ±20%	1MHz	3800mA	3200mA	0.032Ω
DFE201612PD-R68M	_	0.68µH ±20%	1MHz	3100mA	2500mA	0.046Ω
DFE201612PD-1R0M□	_	1.0µH ±20%	1MHz	2700mA	2200mA	0.060Ω
DFE201612PD-1R5M□	_	1.5µH ±20%	1MHz	2000mA	1700mA	0.098Ω
DFE201612PD-2R2M□	_	2.2µH ±20%	1MHz	1700mA	1200mA	0.172Ω

Operating temp.range (Self-temp.rise included): -40 to 125°C

Absolute maximum voltage: 10V DC

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

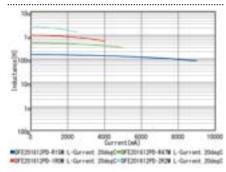
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 30\%. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C.)$

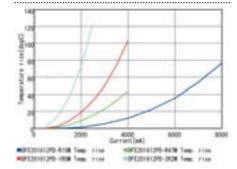
 $Rated \ current. \ (Itemp) \ is \ specified \ when \ temperature \ of \ inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C.)$

Class of Magnetic Shield: Metal Alloy

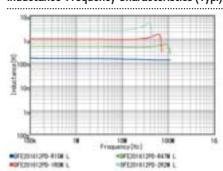
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)



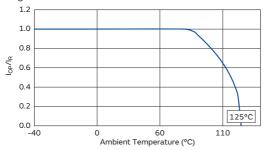
Continued on the following page. 7

Inductors for General Circuits

Continued from the preceding page.

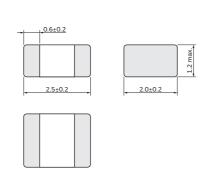
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



DFE252012P_D Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P2	ø180mm Embossed Taping	3000

(in mm)

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	riax. of DC Resistance
DFE252012PD-R33M	-	0.33µH ±20%	1MHz	6000mA	4600mA	0.023Ω
DFE252012PD-R47M□	-	0.47µH ±20%	1MHz	5200mA	4000mA	0.027Ω
DFE252012PD-R68M	-	0.68µH ±20%	1MHz	4300mA	3500mA	0.037Ω
DFE252012PD-1R0M□	-	1.0µH ±20%	1MHz	3800mA	3200mA	0.042Ω
DFE252012PD-1R5M□	-	1.5µH ±20%	1MHz	3300mA	2600mA	0.060Ω
DFE252012PD-2R2M□	-	2.2µH ±20%	1MHz	2800mA	2200mA	0.084Ω
DFE252012PD-3R3M□	-	3.3µH ±20%	1MHz	2100mA	1700mA	0.140Ω
DFE252012PD-4R7M	_	4.7µH ±20%	1MHz	1900mA	1400mA	0.200Ω

Operating temp.range (Self-temp.rise included): -40 to 125°C

Absolute maximum voltage: 20V DC

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

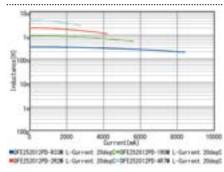
*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 30%. (The ambient reference temperature is 20°C.)

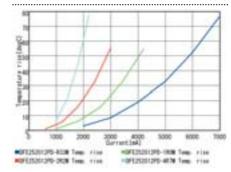
Rated current (Itemp) is specified when temperature of inductor the is raised 40°C by DC current. (The ambient reference temperature is 20°C .)

Class of Magnetic Shield: Metal Alloy

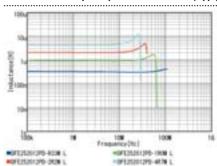
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)



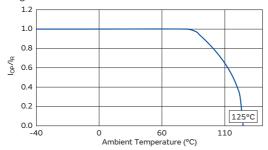
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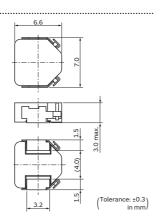
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



DFEG7030D Series 2726 (7066) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	1000

Rated Value (□: packaging code)

Part N	Number	· Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (ISat)"	Rated Current (Itemp)"	Max. of DC Resistance
_	DFEG7030D-1R0M□	1.0µH ±20%	0.1MHz	9000mA	9100mA	0.0099Ω
_	DFEG7030D-1R5M□	1.5µH ±20%	0.1MHz	7300mA	7600mA	0.0150Ω
_	DFEG7030D-2R2M□	2.2μH ±20%	0.1MHz	6900mA	7100mA	0.0180Ω
_	DFEG7030D-3R3M□	3.3µH ±20%	0.1MHz	5300mA	5400mA	0.0290Ω
_	DFEG7030D-4R7M□	4.7μH ±20%	0.1MHz	4200mA	4200mA	0.0410Ω
_	DFEG7030D-5R6M□	5.6µH ±20%	0.1MHz	4100mA	3800mA	0.0540Ω
_	DFEG7030D-6R8M□	6.8µH ±20%	0.1MHz	3900mA	3500mA	0.0590Ω
_	DFEG7030D-8R2M□	8.2µH ±20%	0.1MHz	3200mA	3100mA	0.0780Ω
_	DFEG7030D-100M□	10μH ±20%	0.1MHz	3200mA	3000mA	0.0820Ω
_	DFEG7030D-150M□	15µH ±20%	0.1MHz	2400mA	2200mA	0.1470Ω
_	DFEG7030D-220M□	22µH ±20%	0.1MHz	2000mA	1900mA	0.1980Ω

Operating temp.range (Self-temp.rise included): -40 to 125°C

Absolute maximum voltage: 50V DC

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

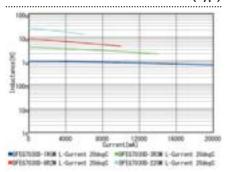
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 20\%. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C.)$

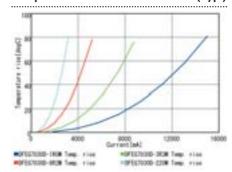
Rated current (Itemp) is specified when temperature of inductor the is raised 40°C by DC current. (The ambient reference temperature is 25°C.)

Class of Magnetic Shield: Metal Alloy

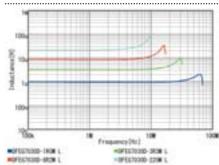
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)

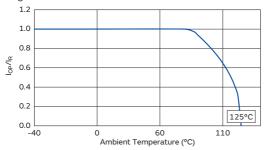


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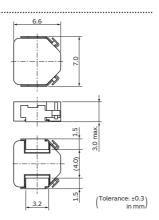
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



DFEH7030D Series 2726 (7066) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	1000

Rated Value (□: packaging code)

Part I	Number	Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (ISat)"	Rated Current (Itemp)"	Max. of DC Resistance
_	DFEH7030D-1R0M□	1.0µH ±20%	0.1MHz	9000mA	9100mA	0.0099Ω
_	DFEH7030D-1R5M□	1.5µH ±20%	0.1MHz	7300mA	7600mA	0.0150Ω
_	DFEH7030D-2R2M□	2.2µH ±20%	0.1MHz	6900mA	7100mA	0.0180Ω
_	DFEH7030D-3R3M□	3.3µH ±20%	0.1MHz	5300mA	5400mA	0.0290Ω
_	DFEH7030D-4R7M□	4.7μH ±20%	0.1MHz	4200mA	4200mA	0.0410Ω
_	DFEH7030D-5R6M□	5.6µH ±20%	0.1MHz	4100mA	3800mA	0.0540Ω
_	DFEH7030D-6R8M□	6.8µH ±20%	0.1MHz	3900mA	3500mA	0.0590Ω
_	DFEH7030D-8R2M□	8.2µH ±20%	0.1MHz	3200mA	3100mA	0.0780Ω
_	DFEH7030D-100M□	10µH ±20%	0.1MHz	3200mA	3000mA	0.0820Ω
_	DFEH7030D-150M□	15µH ±20%	0.1MHz	2400mA	2200mA	0.1470Ω
_	DFEH7030D-220M□	22µH ±20%	0.1MHz	2000mA	1900mA	0.1980Ω

Operating temp.range (Self-temp.rise included): -40 to 155°C

Absolute maximum voltage: 50V DC

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

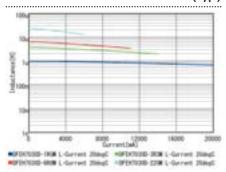
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 20\%. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C.)$

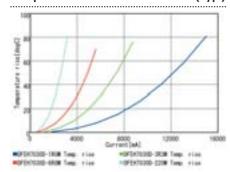
Rated current (Itemp) is specified when temperature of inductor the is raised 40°C by DC current. (The ambient reference temperature is 25°C.)

Class of Magnetic Shield: Metal Alloy

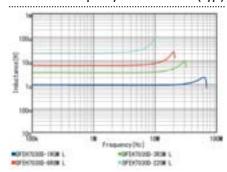
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)



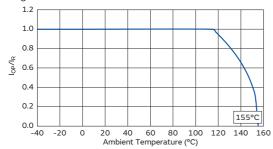
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Inductors for General Circuits

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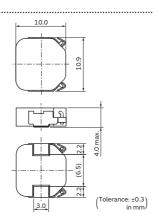
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



DFEG10040D Series 4339 (109100) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	500

Rated Value (□: packaging code)

(<u></u> - p	0 0 /					
Part	Number	Inductance	Inductance	Data d Commant (last)*	Dated Comment (Harry)*	Max. of DC Resistance
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance
_	DFEG10040D-1R0M	1.0µH ±20%	0.1MHz	18000mA	17000mA	0.0035Ω
_	DFEG10040D-1R5M	1.5µH ±20%	0.1MHz	14000mA	14000mA	0.0050Ω
_	DFEG10040D-2R2M	2.2µH ±20%	0.1MHz	11000mA	12000mA	0.0075Ω
_	DFEG10040D-3R3M□	3.3µH ±20%	0.1MHz	10000mA	10000mA	0.0120Ω
_	DFEG10040D-4R7M	4.7µH ±20%	0.1MHz	7300mA	8800mA	0.0160Ω
_	DFEG10040D-5R6M□	5.6µH ±20%	0.1MHz	6900mA	8000mA	0.0180Ω
_	DFEG10040D-6R8M	6.8µH ±20%	0.1MHz	6500mA	6400mA	0.0230Ω
_	DFEG10040D-8R2M□	8.2µH ±20%	0.1MHz	5600mA	5900mA	0.0290Ω
_	DFEG10040D-100M	10μH ±20%	0.1MHz	5500mA	5700mA	0.0330Ω
_	DFEG10040D-150M	15µH ±20%	0.1MHz	4400mA	5200mA	0.0470Ω
_	DFEG10040D-220M	22µH ±20%	0.1MHz	4000mA	3800mA	0.0700Ω
_	DFEG10040D-330M	33µH ±20%	0.1MHz	3000mA	3300mA	0.1070Ω
_	DFEG10040D-470M	47μH ±20%	0.1MHz	2900mA	2500mA	0.1640Ω

Operating temp.range (Self-temp.rise included): -40 to 125°C

Absolute maximum voltage: 50V DC

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

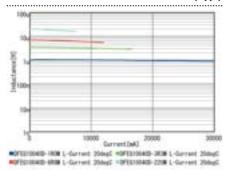
*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 20%. (The ambient reference temperature is 25°C.)

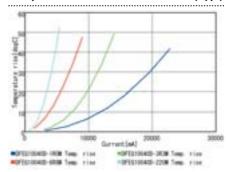
 $Rated \ current \ (ltemp) \ is \ specified \ when \ temperature \ of \ inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C.)$

Class of Magnetic Shield: Metal Alloy

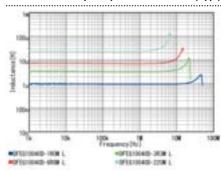
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)

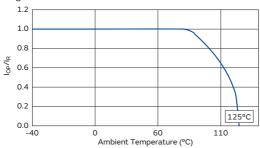


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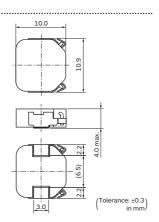
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



DFEH10040D Series 4339 (109100) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	500

Rated Value (□: packaging code)

	<u> </u>					
Part	Number	Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance
Infotainment	Powertrain/Safety	muuctance	Test Frequency	Rated Current (ISat)"	Rated Current (Itemp)	Max. of DC Resistance
_	DFEH10040D-1R0M	1.0µH ±20%	0.1MHz	18000mA	17000mA	0.0035Ω
_	DFEH10040D-1R5M	1.5µH ±20%	0.1MHz	14000mA	14000mA	0.0050Ω
_	DFEH10040D-2R2M	2.2µH ±20%	0.1MHz	11000mA	12000mA	0.0075Ω
_	DFEH10040D-3R3M	3.3µH ±20%	0.1MHz	10000mA	10000mA	0.0120Ω
_	DFEH10040D-4R7M	4.7µH ±20%	0.1MHz	7300mA	8800mA	0.0160Ω
_	DFEH10040D-5R6M	5.6µH ±20%	0.1MHz	6900mA	8000mA	0.0180Ω
_	DFEH10040D-6R8M	6.8µH ±20%	0.1MHz	6500mA	6400mA	0.0230Ω
_	DFEH10040D-8R2M	8.2µH ±20%	0.1MHz	5600mA	5900mA	0.0290Ω
_	DFEH10040D-100M	10µH ±20%	0.1MHz	5500mA	5700mA	0.0330Ω
_	DFEH10040D-150M	15µH ±20%	0.1MHz	4400mA	5200mA	0.0470Ω
_	DFEH10040D-220M	22µH ±20%	0.1MHz	4000mA	3800mA	0.0700Ω
_	DFEH10040D-330M	33µH ±20%	0.1MHz	3000mA	3300mA	0.1070Ω
_	DFEH10040D-470M	47µH ±20%	0.1MHz	2900mA	2500mA	0.1640Ω

Operating temp.range (Self-temp.rise included): -40 to 155°C

Absolute maximum voltage: 50V DC

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

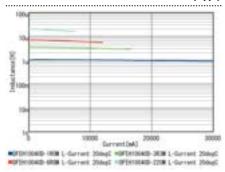
*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 20%. (The ambient reference temperature is 25°C.)

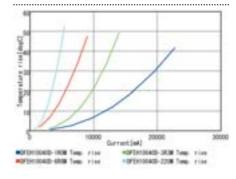
 $Rated \ current \ (ltemp) \ is \ specified \ when \ temperature \ of \ inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C.)$

Class of Magnetic Shield: Metal Alloy

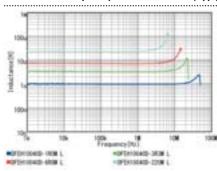
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)

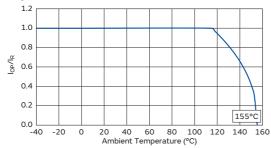


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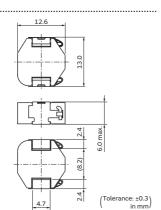
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



DFEG12060D Series 5150 (130126) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	500

Rated Value (□: packaging code)

Part	Number	Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance
Infotainment	Powertrain/Safety	muuctance	Test Frequency	Rated Current (Isat)"	Rated Current (Itemp)	Max. of DC Resistance
_	DFEG12060D-1R0M□	1.0µH ±20%	0.1MHz	19000mA	20000mA	0.0029Ω
_	DFEG12060D-1R5M	1.5µH ±20%	0.1MHz	17000mA	17000mA	0.0036Ω
_	DFEG12060D-2R2M	2.2µH ±20%	0.1MHz	16000mA	16000mA	0.0044Ω
_	DFEG12060D-3R3M□	3.3µH ±20%	0.1MHz	14000mA	13000mA	0.0063Ω
_	DFEG12060D-4R7M□	4.7μH ±20%	0.1MHz	11000mA	10000mA	0.0110Ω
_	DFEG12060D-5R6M□	5.6μH ±20%	0.1MHz	10000mA	10000mA	0.0110Ω
_	DFEG12060D-6R8M□	6.8µH ±20%	0.1MHz	8300mA	9000mA	0.0140Ω
_	DFEG12060D-8R2M	8.2µH ±20%	0.1MHz	8300mA	8000mA	0.0170Ω
_	DFEG12060D-100M	10μH ±20%	0.1MHz	6600mA	7900mA	0.0200Ω
_	DFEG12060D-150M	15µH ±20%	0.1MHz	5600mA	6600mA	0.0280Ω
_	DFEG12060D-220M	22µH ±20%	0.1MHz	4900mA	6000mA	0.0350Ω
_	DFEG12060D-330M	33µH ±20%	0.1MHz	3400mA	4200mA	0.0540Ω
_	DFEG12060D-470M□	47µH ±20%	0.1MHz	3000mA	3600mA	0.0790Ω

Operating temp.range (Self-temp.rise included): -40 to 125°C

Absolute maximum voltage: 50V DC

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

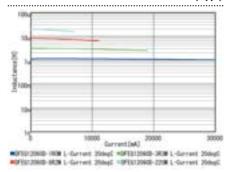
*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 20%. (The ambient reference temperature is 25°C.)

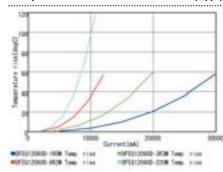
 $Rated \ current \ (ltemp) \ is \ specified \ when \ temperature \ of \ inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C.)$

Class of Magnetic Shield: Metal Alloy

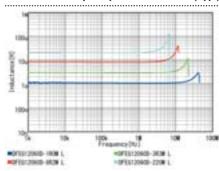
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)



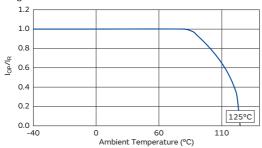
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Inductors for General Circuits

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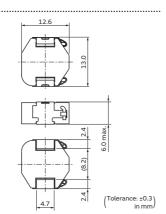
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



DFEH12060D Series 5150 (130126) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	500

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance	
Infotainment	Powertrain/Safety	mudetance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	Max. of DC Resistance	
_	DFEH12060D-1R0M	1.0µH ±20%	0.1MHz	19000mA	20000mA	0.0029Ω	
_	DFEH12060D-1R5M	1.5µH ±20%	0.1MHz	17000mA	17000mA	0.0036Ω	
_	DFEH12060D-2R2M	2.2µH ±20%	0.1MHz	16000mA	16000mA	0.0044Ω	
_	DFEH12060D-3R3M	3.3µH ±20%	0.1MHz	14000mA	13000mA	0.0063Ω	
_	DFEH12060D-4R7M	4.7µH ±20%	0.1MHz	11000mA	10000mA	0.0110Ω	
_	DFEH12060D-5R6M	5.6µH ±20%	0.1MHz	10000mA	10000mA	0.0110Ω	
_	DFEH12060D-6R8M□	6.8µH ±20%	0.1MHz	8300mA	9000mA	0.0140Ω	
_	DFEH12060D-8R2M	8.2µH ±20%	0.1MHz	8300mA	8000mA	0.0170Ω	
_	DFEH12060D-100M	10µH ±20%	0.1MHz	6600mA	7900mA	0.0200Ω	
_	DFEH12060D-150M	15µH ±20%	0.1MHz	5600mA	6600mA	0.0280Ω	
_	DFEH12060D-220M	22µH ±20%	0.1MHz	4900mA	6000mA	0.0350Ω	
_	DFEH12060D-330M	33µH ±20%	0.1MHz	3400mA	4200mA	0.0540Ω	
_	DFEH12060D-470M□	47µH ±20%	0.1MHz	3000mA	3600mA	0.0790Ω	

Operating temp.range (Self-temp.rise included): -40 to 155°C

Absolute maximum voltage: 50V DC

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Resistance Hitester 3541 (HIOKI) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

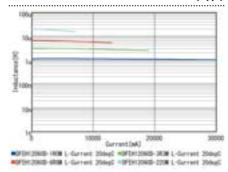
*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 20%. (The ambient reference temperature is 25°C.)

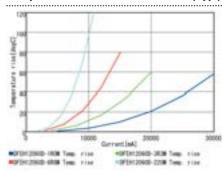
 $Rated \ current \ (ltemp) \ is \ specified \ when \ temperature \ of \ inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C.)$

Class of Magnetic Shield: Metal Alloy

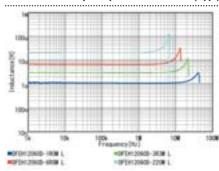
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)

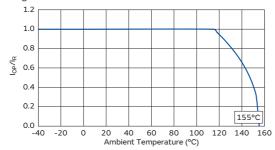


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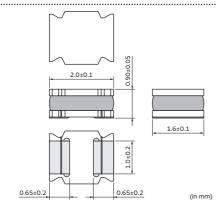
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



LQH2MPZ_GR Series 0806 (2016) inch (mm)

Appearance/Dimensions



Packaging

Code		Packaging	Minimum Quantity	
L	ø18	30mm Embossed Taping	3000	

Rated Value (□: packaging code)

Part Number		Inductance			5 . 15	202 ::	CD Et (min)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
LQH2MPZR33NGR□	-	0.33µH ±30%	1MHz	2200mA	1130mA(Ambient temp.85°C) 670mA(Ambient temp.105°C)	0.15Ω±20%	130MHz
LQH2MPZR47NGR□	-	0.47µH ±30%	1MHz	1950mA	1060mA(Ambient temp.85°C) 630mA(Ambient temp.105°C)	0.18Ω±20%	120MHz
LQH2MPZ1R0NGR□	-	1.0µH ±30%	1MHz	1550mA	900mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)	0.25Ω±20%	100MHz
LQH2MPZ1R5NGR□	-	1.5µH ±30%	1MHz	1330mA	790mA(Ambient temp.85°C) 470mA(Ambient temp.105°C)	0.32Ω±20%	60MHz
LQH2MPZ2R2MGR□	-	2.2µH ±20%	1MHz	1180mA	680mA(Ambient temp.85°C) 400mA(Ambient temp.105°C)	0.39Ω±20%	50MHz
LQH2MPZ3R3MGR□	- 3.3μH ±20% 1MHz 1020mA 640mA(Ambient temp.85°C) 380mA(Ambient temp.105°C)		0.47Ω±20%	45MHz			
LQH2MPZ4R7MGR□	4.7μH ±20% 1MHz 870mA 580mA(Ambient temp.85°C) 340mA(Ambient temp.105°C)		0.60Ω±20%	40MHz			
LQH2MPZ6R8MGR□	-	6.8µH ±20%	1MHz	730mA	530mA(Ambient temp.85°C) 310mA(Ambient temp.105°C)	0.72Ω±20%	35MHz
LQH2MPZ100MGR□	-	10μH ±20%	1MHz	610mA	480mA(Ambient temp.85°C) 280mA(Ambient temp.105°C)	0.88Ω±20%	30MHz
LQH2MPZ150MGR□	-	15µH ±20%	1MHz	490mA	340mA(Ambient temp.85°C) 200mA(Ambient temp.105°C)	1.7Ω±20%	25MHz
LQH2MPZ220MGR□	-	22µH ±20%	1MHz	410mA	290mA(Ambient temp.85°C) 170mA(Ambient temp.105°C)	2.1Ω±20%	20MHz
LQH2MPZ330MGR□	-	33µH ±20%	1MHz	310mA	200mA(Ambient temp.85°C) 120mA(Ambient temp.105°C)	4.3Ω±20%	15MHz
LQH2MPZ470MGR□	-	47μH ±20%	1MHz	270mA	180mA(Ambient temp.85°C) 110mA(Ambient temp.105°C)	5.3Ω±20%	10MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Ferrite Core

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

S.R.F: Self Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°C max. (ambient temperature 85-105°C).

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Part N	lumber	Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.D.E* (min.)
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)"	DC RESISTANCE	3.R.F" (IIIII.)
LQH2MPZ680MGR□	_	68µH ±20%	1MHz	230mA	160mA(Ambient temp.85°C) 100mA(Ambient temp.105°C)	6.7Ω±20%	7MHz
LQH2MPZ820MGR□	_	82µH ±20%	1MHz	210mA	150mA(Ambient temp.85°C) 90mA(Ambient temp.105°C)	7.3Ω±20%	5MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

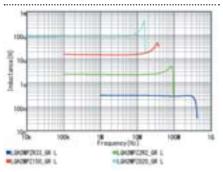
Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Ferrite Core

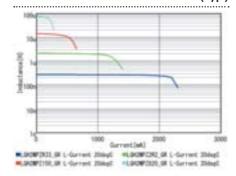
Only for reflow soldering

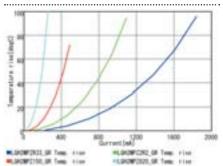
When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°C max. (ambient temperature 85-105°C).

Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)





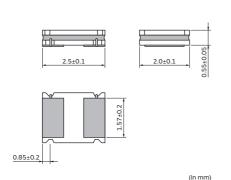
^{*}Isat: Rated Current based on Inductance change

^{*}Itemp: Rated Current based on Temperature rise

^{*}S.R.F: Self Resonant Frequency

LQH2HPZ_DR Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	4000

Rated Value (□: packaging code)

Part N	Part Number		Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.D.E* (min.)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)"	Rated Current (Itemp)"	DC Resistance	5.K.F" (MIN.)
LQH2HPZR47MDR□	_	0.47µH ±20%	1MHz	1670mA	1250mA(Ambient temp.85°C) 750mA(Ambient temp.105°C)	0.14Ω±20%	120MHz
LQH2HPZ1R0MDR□	_	1.0µH ±20%	1MHz	1370mA	960mA(Ambient temp.85°C) 580mA(Ambient temp.105°C)	0.24Ω±20%	100MHz
LQH2HPZ1R5MDR□	_	1.5µH ±20%	1MHz	1120mA	900mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)	0.29Ω±20%	60MHz
LQH2HPZ2R2MDR□	_	2.2µH ±20%	1MHz	850mA	820mA(Ambient temp.85°C) 500mA(Ambient temp.105°C)	0.34Ω±20%	50MHz
LQH2HPZ3R3MDR□	PZ3R3MDR□ — 3.3µH ±20% 1MHz 750mA 730mA(Ambient temp.85°C) 440mA(Ambient temp.105°C)		0.45Ω±20%	45MHz			
LQH2HPZ4R7MDR□	_	4.7µH ±20%	1MHz	650mA	650mA(Ambient temp.85°C) 390mA(Ambient temp.105°C)	0.56Ω±20%	40MHz
LQH2HPZ6R8MDR□	_	6.8µH ±20%	1MHz	550mA	490mA(Ambient temp.85°C) 300mA(Ambient temp.105°C)	1.0Ω±20%	35MHz
LQH2HPZ100MDR□	_	10μH ±20%	1MHz	420mA	430mA(Ambient temp.85°C) 260mA(Ambient temp.105°C)	1.2Ω±20%	30MHz
LQH2HPZ150MDR□	_	15µH ±20%	1MHz	340mA	290mA(Ambient temp.85°C) 180mA(Ambient temp.105°C)	2.5Ω±20%	25MHz
LQH2HPZ220MDR□	_	22µH ±20%	1MHz	260mA	270mA(Ambient temp.85°C) 170mA(Ambient temp.105°C)	3.0Ω±20%	20MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C $\,$

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

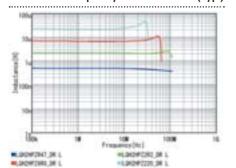
When rated current is applied to the products, inductance will be within $\pm 30\%$ of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°C max. (ambient temperature 85-105°C).

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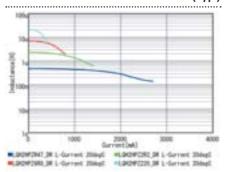
Inductors for General Circuits

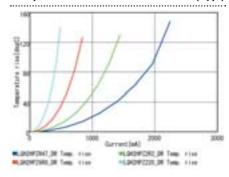
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Inductance-Frequency Characteristics (Typ.)



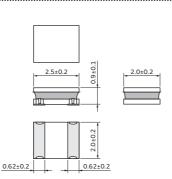
Inductance-Current Characteristics (Typ.)





LQH2HPZ_GR Series 1008 (2520) inch (mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000

Rated Value (□: packaging code)

Part N	umber	Industria.	Inductance	Data d Community (Inc.)	Date d Comment (the man) t	DO Desistence	CD Et (min)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
LQH2HPZR47MGR□	_	0.47µH ±20%	1MHz	2900mA	2520mA(Ambient temp.85°C) 1470mA(Ambient temp.105°C)	0.045Ω±20%	120MHz
LQH2HPZR68MGR□	_	0.68µH ±20%	1MHz	2430mA	2330mA(Ambient temp.85°C) 1350mA(Ambient temp.105°C)	0.055Ω±20%	110MHz
LQH2HPZ1R0MGR□	_	1.0µH ±20%	1MHz	2130mA	2100mA(Ambient temp.85°C) 1200mA(Ambient temp.105°C)	0.068Ω±20%	100MHz
LQH2HPZ1R5MGR□	_	1.5µH ±20%	1MHz	1700mA	1850mA(Ambient temp.85°C) 1110mA(Ambient temp.105°C)	0.087Ω±20%	90MHz
LQH2HPZ2R2MGR□	- 2 2μH +20% 1MHz 1550mΔ		1470mA(Ambient temp.85°C) 850mA(Ambient temp.105°C)	0.134Ω±20%	80MHz		
LQH2HPZ3R3MGR□	_	3.3µH ±20%	1MHz	1230mA	1100mA(Ambient temp.85°C) 660mA(Ambient temp.105°C)	0.225Ω±20%	70MHz
LQH2HPZ4R7MGR□	_	4.7µH ±20%	1MHz	1090mA	1000mA(Ambient temp.85°C) 570mA(Ambient temp.105°C)	0.300Ω±20%	50MHz
LQH2HPZ6R8MGR□	_	6.8µH ±20%	1MHz	830mA	860mA(Ambient temp.85°C) 490mA(Ambient temp.105°C)	0.395Ω±20%	40MHz
LQH2HPZ100MGR□	_	10μH ±20%	1MHz	700mA	710mA(Ambient temp.85°C) 430mA(Ambient temp.105°C)	0.560Ω±20%	30MHz
LQH2HPZ150MGR□		15µH ±20%	1MHz	570mA	560mA(Ambient temp.85°C) 310mA(Ambient temp.105°C)	0.925Ω±20%	20MHz
LQH2HPZ220MGR□	_	22μH ±20%	1MHz	460mA	430mA(Ambient temp.85°C) 250mA(Ambient temp.105°C)	1.360Ω±20%	15MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C $\,$

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°Cmax. (ambient temperature 85°C).

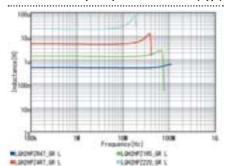
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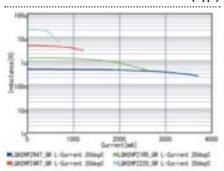
Inductors for General Circuits

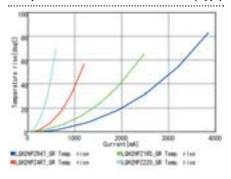
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Inductance-Frequency Characteristics (Typ.)



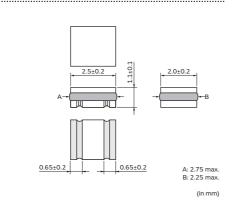
Inductance-Current Characteristics (Typ.)





LQH2HPZ_JR Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part N	lumber	- Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	DC Resistance	S.R.F" (IIIII.)
LQH2HPZR47NJR□	_	0.47µH ±30%	1MHz	3500mA	2750mA(Ambient temp.85°C) 1650mA(Ambient temp.105°C)	0.031Ω±20%	190MHz
LQH2HPZ1R0NJR	_	1.0µH ±30%	1MHz	2600mA	2400mA(Ambient temp.85°C) 1440mA(Ambient temp.105°C)	0.048Ω±20%	120MHz
LQH2HPZ1R2NJR	_	1.2µH ±30%	1MHz	2450mA	2070mA(Ambient temp.85°C) 1240mA(Ambient temp.105°C)	0.055Ω±20%	100MHz
LQH2HPZ1R5NJR	_	1.5µH ±30%	1MHz	2200mA	1810mA(Ambient temp.85°C) 1080mA(Ambient temp.105°C)	0.075Ω±20%	95MHz
LQH2HPZ2R2MJR□	_	2.2µH ±20%	1MHz	1700mA	1650mA(Ambient temp.85°C) 990mA(Ambient temp.105°C)	0.092Ω±20%	50MHz
LQH2HPZ3R3MJR□	_	3.3µH ±20%	1MHz	1450mA	1420mA(Ambient temp.85°C) 850mA(Ambient temp.105°C)	0.13Ω±20%	45MHz
LQH2HPZ4R7MJR□	_	4.7μH ±20%	1MHz	1230mA	1290mA(Ambient temp.85°C) 770mA(Ambient temp.105°C)	0.17Ω±20%	40MHz
LQH2HPZ6R8MJR□	_	6.8µH ±20%	1MHz	1050mA	1000mA(Ambient temp.85°C) 600mA(Ambient temp.105°C)	0.26Ω±20%	35MHz
LQH2HPZ100MJR□	_	10μH ±20%	1MHz	830mA	830mA(Ambient temp.85°C) 490mA(Ambient temp.105°C)	0.38Ω±20%	30MHz
LQH2HPZ150MJR□	_	15µH ±20%	1MHz	690mA	710mA(Ambient temp.85°C) 420mA(Ambient temp.105°C)	0.55Ω±20%	20MHz
LQH2HPZ220MJR□	_	22μH ±20%	1MHz	530mA	540mA(Ambient temp.85°C) 320mA(Ambient temp.105°C)	0.84Ω±20%	20MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105 $^{\circ}\text{C}$

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°C max. (ambient temperature 85-105°C).

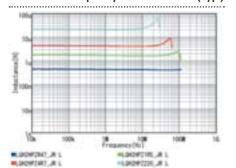
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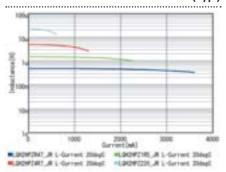
Inductors for General Circuits

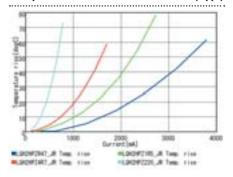
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Inductance-Frequency Characteristics (Typ.)



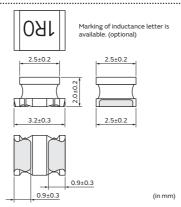
Inductance-Current Characteristics (Typ.)





LQH32CH_23 Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part I	Part Number		Inductance	Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current	DC Resistance	3.K.i (IIIII.)	
_	LQH32CH1R0M23	1.0µH ±20%	1MHz	800mA	0.09Ω±30%	96MHz	
_	LQH32CH2R2M23□	2.2µH ±20%	1MHz	600mA	0.13Ω±30%	64MHz	
_	LQH32CH4R7M23□	4.7µH ±20%	1MHz	450mA	0.20Ω±30%	43MHz	
_	LQH32CH100K23	10μH ±10%	1MHz	300mA	0.44Ω±30%	26MHz	
_	LQH32CH220K23	22µH ±10%	1MHz	250mA	0.71Ω±30%	19MHz	

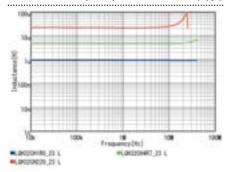
Operating temp.range (Self-temp.rise not included): -40 to 85°C

Class of Magnetic Shield: No Shield

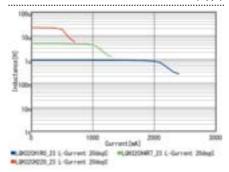
*S.R.F: Self Resonant Frequency

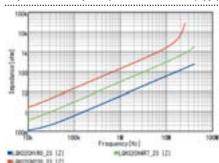
When rated current is applied to the products, self-temperature rise shall be limited to 20°C max and inductance will be within ±10% of initial inductance value.

Inductance-Frequency Characteristics (Typ.)



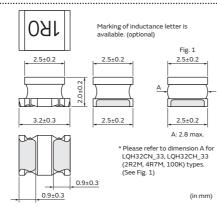
Inductance-Current Characteristics (Typ.)





LQH32CH_33 Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000
В	Packing in Bulk	500

Rated Value (□: packaging code)

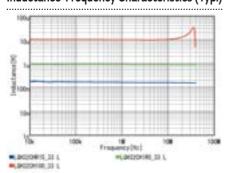
Part Number		Inductance	Inductance	Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	DC Resistance	3.R.I (IIIII.)	
_	LQH32CHR15M33□	0.15µH ±20%	1MHz	1450mA	0.028Ω±30%	400MHz	
_	LQH32CHR27M33□	0.27µH ±20%	1MHz	1250mA	0.034Ω±30%	250MHz	
_	LQH32CHR47M33□	0.47µH ±20%	1MHz	1100mA	0.042Ω±30%	150MHz	
_	LQH32CH1R0M33	1.0µH ±20%	1MHz	1000mA	0.060Ω±30%	100MHz	
_	LQH32CH2R2M33□	2.2µH ±20%	1MHz	790mA	0.097Ω±30%	64MHz	
_	LQH32CH4R7M33□	4.7µH ±20%	1MHz	650mA	0.15Ω±30%	43MHz	
_	LQH32CH100K33	10μH ±10%	1MHz	450mA	0.30Ω±30%	26MHz	

Operating temp.range (Self-temp.rise not included): -40 to 85°C

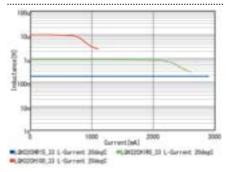
Class of Magnetic Shield: No Shield

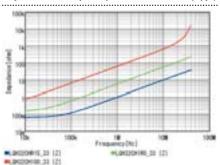
When rated current is applied to the products, self-temperature rise shall be limited to 20°C max and inductance will be within ±10% of initial inductance value.

Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)

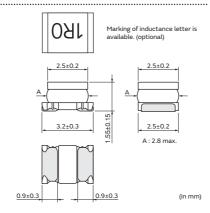




^{*}S.R.F: Self Resonant Frequency

LQH32CH_53 Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part N	Part Number		Inductance	Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current	DC Resistance	3.R.F" (IIIII.)	
_	LQH32CH1R0M53	1.0µH ±20%	1MHz	1000mA	0.060Ω±30%	100MHz	
_	LQH32CH2R2M53	2.2µH ±20%	1MHz	790mA	0.097Ω±30%	64MHz	
_	LQH32CH3R3M53	3.3µH ±20%	1MHz	710mA	0.12Ω±30%	50MHz	
_	LQH32CH4R7M53	4.7µH ±20%	1MHz	650mA	0.15Ω±30%	43MHz	
_	LQH32CH6R8M53	6.8µH ±20%	1MHz	540mA	0.25Ω±30%	32MHz	
_	LQH32CH100K53	10μH ±10%	1MHz	450mA	0.30Ω±30%	26MHz	
_	LQH32CH150K53	15µH ±10%	1MHz	300mA	0.58Ω±30%	26MHz	
_	LQH32CH220K53□	22µH ±10%	1MHz	250mA	0.71Ω±30%	19MHz	

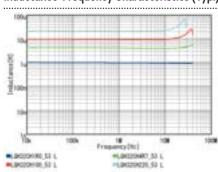
Operating temp.range (Self-temp.rise not included): -40 to 85°C

Class of Magnetic Shield: No Shield

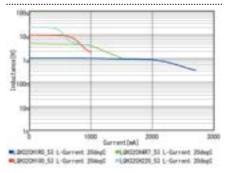
*S.R.F: Self Resonant Frequency

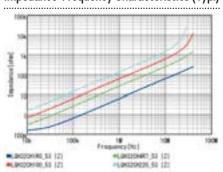
When rated current is applied to the products, self-temperature rise shall be limited to 20°C max and inductance will be within ±10% of initial inductance value.

Inductance-Frequency Characteristics (Typ.)



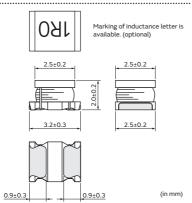
Inductance-Current Characteristics (Typ.)





LQH32DZ_23 Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current	DC Resistance	C.D.Et (min.)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)	
LQH32DZ1R0M23	_	1.0µH ±20%	1MHz	800mA	0.09Ω±30%	96MHz	
LQH32DZ2R2M23	_	2.2µH ±20%	1MHz	600mA	0.13Ω±30%	64MHz	
LQH32DZ3R3M23	_	3.3µH ±20%	1MHz	530mA	0.20Ω±30%	50MHz	
LQH32DZ4R7M23	_	4.7µH ±20%	1MHz	450mA	0.20Ω±30%	43MHz	
LQH32DZ100K23	_	10μH ±10%	1MHz	300mA	0.44Ω±30%	26MHz	
LQH32DZ220K23	_	22µH ±10%	1MHz	250mA	0.71Ω±30%	19MHz	
LQH32DZ390K23	_	39µH ±10%	1MHz	200mA	1.2Ω±30%	16MHz	
LQH32DZ470K23	_	47µH ±10%	1MHz	170mA	1.3Ω±30%	15MHz	
LQH32DZ680K23	_	68µH ±10%	1MHz	130mA	2.2Ω±30%	12MHz	
LQH32DZ101K23	_	100μH ±10%	1MHz	100mA	3.5Ω±30%	10MHz	
LQH32DZ151K23	_	150µH ±10%	1MHz	80mA	5.1Ω±30%	8.0MHz	
LQH32DZ221K23	_	220μH ±10%	1MHz	70mA	8.4Ω±30%	6.8MHz	
LQH32DZ331K23□	_	330µH ±10%	1MHz	60mA	10.0Ω±30%	5.6MHz	
LQH32DZ391K23□	_	390μH ±10%	1MHz	60mA	12.4Ω±30%	5MHz	
LQH32DZ471K23	_	470µH ±10%	1kHz	60mA	14.1Ω±30%	5MHz	

Operating temp.range: -40 to 105°C

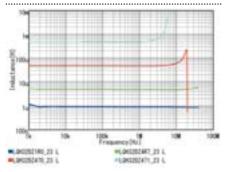
Class of Magnetic Shield: No Shield

Only for reflow soldering

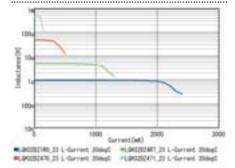
*S.R.F: Self Resonant Frequency

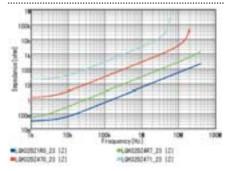
When rated current is applied to the products, self-temperature rise shall be limited to 20°C max and inductance will be within ±10% of initial inductance value.

Inductance-Frequency Characteristics (Typ.)



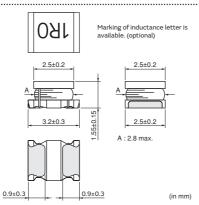
Inductance-Current Characteristics (Typ.)





LQH32DZ_53 Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current	DC Resistance	S D F* (i)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)	
LQH32DZ1R0M53	_	1.0µH ±20%	1MHz	1000mA	0.060Ω±30%	100MHz	
LQH32DZ2R2M53	_	2.2µH ±20%	1MHz	790mA	0.097Ω±30%	64MHz	
LQH32DZ3R3M53	_	3.3µH ±20%	1MHz	710mA	0.12Ω±30%	50MHz	
LQH32DZ4R7M53	_	4.7µH ±20%	1MHz	650mA	0.15Ω±30%	43MHz	
LQH32DZ6R8M53	_	6.8µH ±20%	1MHz	540mA	0.25Ω±30%	32MHz	
LQH32DZ100K53	_	10μH ±10%	1MHz	450mA	0.30Ω±30%	26MHz	
LQH32DZ150K53	_	15µH ±10%	1MHz	300mA	0.58Ω±30%	26MHz	
LQH32DZ220K53	_	22μH ±10%	1MHz	250mA	0.71Ω±30%	19MHz	
LQH32DZ330K53	_	33µH ±10%	1MHz	200mA	1.1Ω±30%	17MHz	
LQH32DZ470K53	_	47μH ±10%	1MHz	170mA	1.3Ω±30%	15MHz	
LQH32DZ680K53	_	68µH ±10%	1MHz	130mA	2.2Ω±30%	12MHz	
LQH32DZ101K53	_	100μH ±10%	1MHz	100mA	3.5Ω±30%	10MHz	

Operating temp.range: -40 to 105°C

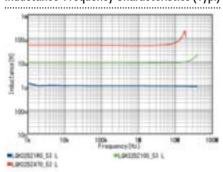
Class of Magnetic Shield: No Shield

Only for reflow soldering

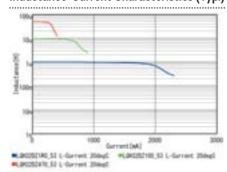
*S.R.F: Self Resonant Frequency

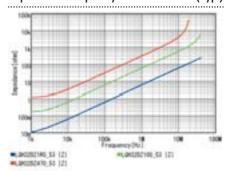
When rated current is applied to the products, self-temperature rise shall be limited to 20°C max and inductance will be within ±10% of initial inductance value.

Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



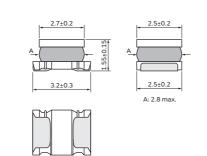


(in mm)

Inductors for Power Lines

LQH32PZ_N0/LQH32PH_N0 Series 1210 (3225) inch (mm)

Appearance/Dimensions



0.9±0.3

Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part N	Part Number		Inductance				CD Et (min)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
LQH32PZR47NN0□	LQH32PHR47NN0□	0.47μH ±30%	1MHz	3400mA	2550mA(Ambient temp.85°C) 1600mA(Ambient temp.105°C)	0.030Ω±20%	100MHz
LQH32PZ1R0NN0□	LQH32PH1R0NN0□	1.0µH ±30%	1MHz	2300mA	2050mA(Ambient temp.85°C) 1320mA(Ambient temp.105°C)	0.045Ω±20%	100MHz
LQH32PZ1R5NN0□	LQH32PH1R5NN0□	1.5µH ±30%	1MHz	1750mA	1750mA(Ambient temp.85°C) 1010mA(Ambient temp.105°C)	0.057Ω±20%	70MHz
LQH32PZ2R2NN0□	LQH32PH2R2NN0□	2.2µH ±30%	1MHz	1550mA	1600mA(Ambient temp.85°C) 970mA(Ambient temp.105°C)	0.076Ω±20%	70MHz
LQH32PZ3R3NN0□	LQH32PH3R3NN0□	3.3µH ±30%	1MHz	1250mA	1200mA(Ambient temp.85°C) 670mA(Ambient temp.105°C)	0.12Ω±20%	50MHz
LQH32PZ4R7NN0□	LQH32PH4R7NN0□	4.7µH ±30%	1MHz	1000mA	1000mA(Ambient temp.85°C) 530mA(Ambient temp.105°C)	0.18Ω±20%	40MHz
LQH32PZ6R8NN0□	LQH32PH6R8NN0□	6.8µH ±30%	1MHz	850mA	850mA(Ambient temp.85°C) 510mA(Ambient temp.105°C)	0.24Ω±20%	40MHz
LQH32PZ100MN0□	LQH32PH100MN0□	10μH ±20%	1MHz	750mA	700mA(Ambient temp.85°C) 380mA(Ambient temp.105°C)	0.38Ω±20%	30MHz
LQH32PZ150MN0□	_	15µH ±20%	1MHz	600mA	520mA(Ambient temp.85°C) 320mA(Ambient temp.105°C)	0.57Ω±20%	20MHz
LQH32PZ220MN0□	_	22µH ±20%	1MHz	500mA	450mA(Ambient temp.85°C) 240mA(Ambient temp.105°C)	0.81Ω±20%	20MHz
LQH32PZ330MN0□	_	33µH ±20%	1MHz	380mA	390mA(Ambient temp.85°C) 190mA(Ambient temp.105°C)	1.15Ω±20%	13MHz
LQH32PZ470MN0□	-	47μH ±20%	1MHz	330mA	310mA(Ambient temp.85°C) 140mA(Ambient temp.105°C)	1.78Ω±20%	11MHz
LQH32PZ680MN0□	_	68μH ±20%	1MHz	280mA	275mA(Ambient temp.85°C) 120mA(Ambient temp.105°C)	2.28Ω±20%	11MHz
LQH32PZ101MN0□	_	100µH ±20%	1MHz	180mA	250mA(Ambient temp.85°C) 110mA(Ambient temp.105°C)	2.70Ω±20%	8MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.



Continued from the preceding page.

Part Number		Inductance Inductance		Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.P.E* (min.)
Infotainment	Powertrain/Safety		Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	DC Resistance	3.R.F" (IIIII.)
LQH32PZ121MN0□	_	120µH ±20%	1MHz	170mA	200mA(Ambient temp.85°C) 80mA(Ambient temp.105°C)	4.38Ω±20%	8MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C $\,$

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

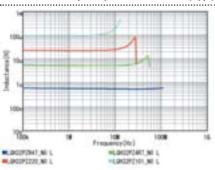
*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

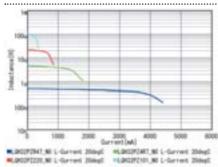
*S.R.F: Self Resonant Frequency

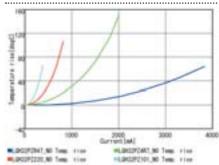
When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

Inductance-Frequency Characteristics (Typ.)



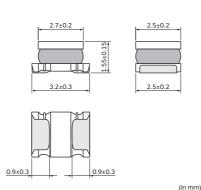
Inductance-Current Characteristics (Typ.)





LQH32PZ_NC/LQH32PH_NC Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part Number		- Inductance	Inductance	5	Data d O command (the command)	DO Davistana	C D Et (min)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
LQH32PZR47NNC□	LQH32PHR47NNC□	0.47µH ±30%	1MHz	4400mA	2900mA(Ambient temp.85°C) 1490mA(Ambient temp.105°C)	0.024Ω±20%	100MHz
LQH32PZ1R0NNC□	LQH32PH1R0NNC□	1.0µH ±30%	1MHz	3000mA	2500mA(Ambient temp.85°C) 1380mA(Ambient temp.105°C)	0.036Ω±20%	100MHz
LQH32PZ1R5NNC□	LQH32PH1R5NNC□	1.5µH ±30%	1MHz	2600mA	2100mA(Ambient temp.85°C) 1110mA(Ambient temp.105°C)	0.053Ω±20%	70MHz
LQH32PZ2R2NNC□	LQH32PH2R2NNC□	2.2µH ±30%	1MHz	2000mA	1850mA(Ambient temp.85°C) 910mA(Ambient temp.105°C)	0.064Ω±20%	70MHz
LQH32PZ3R3NNC□	LQH32PH3R3NNC□	3.3µH ±30%	1MHz	1900mA	1550mA(Ambient temp.85°C) 800mA(Ambient temp.105°C)	0.100Ω±20%	50MHz
LQH32PZ4R7NNC□	LQH32PH4R7NNC□	4.7μH ±30%	1MHz	1600mA	1200mA(Ambient temp.85°C) 610mA(Ambient temp.105°C)	0.155Ω±20%	40MHz
LQH32PZ6R8NNC□	LQH32PH6R8NNC□	6.8µH ±30%	1MHz	1300mA	1100mA(Ambient temp.85°C) 550mA(Ambient temp.105°C)	0.220Ω±20%	40MHz
LQH32PZ100MNC□	LQH32PH100MNC□	10μH ±20%	1MHz	1000mA	900mA(Ambient temp.85°C) 450mA(Ambient temp.105°C)	0.295Ω±20%	30MHz
LQH32PZ150MNC□	LQH32PH150MNC□	15μH ±20%	1MHz	800mA	700mA(Ambient temp.85°C) 330mA(Ambient temp.105°C)	0.475Ω±20%	20MHz
LQH32PZ220MNC□	LQH32PH220MNC□	22μH ±20%	1MHz	650mA	550mA(Ambient temp.85°C) 270mA(Ambient temp.105°C)	0.685Ω±20%	20MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C $\,$

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

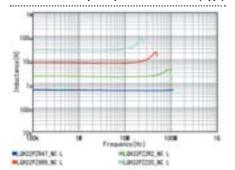
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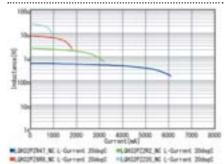
RF Inductors

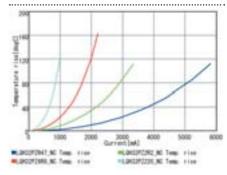
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Inductance-Frequency Characteristics (Typ.)



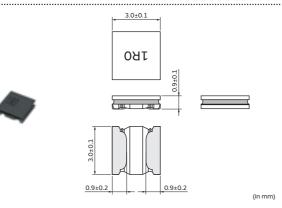
Inductance-Current Characteristics (Typ.)





LQH3NPZ_GR Series 1212 (3030) inch (mm)

Appearance/Dimensions



Packaging

		Packaging	Minimum Quantity		
	L	ø180mm Embossed Taping	3000		

Rated Value (□: packaging code)

Part Number		Inductance				6.5.54 () \	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
LQH3NPZR47NGR□	_	0.47μH ±30%	1MHz	2820mA	2540mA(Ambient temp.85°C) 1520mA(Ambient temp.105°C)	0.047Ω±20%	180MHz
LQH3NPZ1R0MGR□	_	1.0µH ±20%	1MHz	1700mA	2080mA(Ambient temp.85°C) 1240mA(Ambient temp.105°C)	0.062Ω±20%	100MHz
LQH3NPZ1R5MGR□	_	1.5µH ±20%	1MHz	1400mA	2040mA(Ambient temp.85°C) 1220mA(Ambient temp.105°C)	0.074Ω±20%	80MHz
LQH3NPZ2R2MGR□	_	2.2µH ±20%	1MHz	1180mA	1730mA(Ambient temp.85°C) 1030mA(Ambient temp.105°C)	0.087Ω±20%	50MHz
LQH3NPZ3R3MGR□	_	3.3µH ±20%	1MHz	1050mA	1580mA(Ambient temp.85°C) 940mA(Ambient temp.105°C)	0.12Ω±20%	30MHz
LQH3NPZ4R7MGR□	_	4.7μH ±20%	1MHz	850mA	1520mA(Ambient temp.85°C) 910mA(Ambient temp.105°C)	0.14Ω±20%	27MHz
LQH3NPZ6R8MGR□	_	6.8µH ±20%	1MHz	720mA	1140mA(Ambient temp.85°C) 680mA(Ambient temp.105°C)	0.23Ω±20%	25MHz
LQH3NPZ100MGR□	_	10μH ±20%	1MHz	570mA	1120mA(Ambient temp.85°C) 670mA(Ambient temp.105°C)	0.28Ω±20%	20MHz
LQH3NPZ150MGR□	_	15µH ±20%	1MHz	480mA	900mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)	0.39Ω±20%	15MHz
LQH3NPZ220MGR□	_	22µH ±20%	1MHz	390mA	750mA(Ambient temp.85°C) 450mA(Ambient temp.105°C)	0.53Ω±20%	10MHz
LQH3NPZ330MGR□	_	33μH ±20%	1MHz	320mA	600mA(Ambient temp.85°C) 360mA(Ambient temp.105°C)	0.86Ω±20%	8MHz
LQH3NPZ470MGR□	_	47μH ±20%	1MHz	260mA	460mA(Ambient temp.85°C) 270mA(Ambient temp.105°C)	1.4Ω±20%	5MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C $\,$

Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

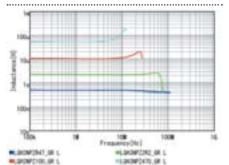
When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°Cmax. (ambient temperature 85 to 105°C).

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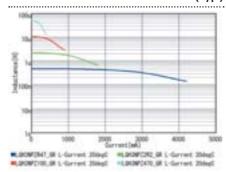


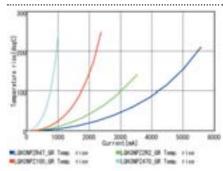
RF Inductors

Inductance-Frequency Characteristics (Typ.)



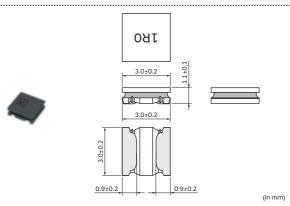
Inductance-Current Characteristics (Typ.)





LQH3NPZ_JR Series 1212 (3030) inch (mm)

Appearance/Dimensions



Packaging

	Packaging	Minimum Quantity		
L	ø180mm Embossed Taping	2000		

Rated Value (□: packaging code)

Part Number		Inductance	2.12.14	D 1 10 1/11 14	202 11	CD Ft (min)	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
LQH3NPZR68NJR□	_	0.68µH ±30%	1MHz	2700mA	2860mA(Ambient temp.85°C) 1280mA(Ambient temp.105°C)	0.032Ω±20%	130MHz
LQH3NPZ1R0MJR	_	1.0µH ±20%	1MHz	2250mA	2780mA(Ambient temp.85°C) 1230mA(Ambient temp.105°C)	0.040Ω±20%	100MHz
LQH3NPZ1R5MJR□	_	1.5µH ±20%	1MHz	1950mA	2510mA(Ambient temp.85°C) 1100mA(Ambient temp.105°C)	0.049Ω±20%	60MHz
LQH3NPZ2R2MJR□	_	2.2µH ±20%	1MHz	1800mA	2200mA(Ambient temp.85°C) 980mA(Ambient temp.105°C)	0.068Ω±20%	45MHz
LQH3NPZ3R3MJR	_	3.3µH ±20%	1MHz	1350mA	1700mA(Ambient temp.85°C) 750mA(Ambient temp.105°C)	0.095Ω±20%	45MHz
LQH3NPZ4R7MJR□	_	4.7μH ±20%	1MHz	1180mA	1580mA(Ambient temp.85°C) 710mA(Ambient temp.105°C)	0.12Ω±20%	40MHz
LQH3NPZ6R8MJR□	_	6.8µH ±20%	1MHz	970mA	1360mA(Ambient temp.85°C) 610mA(Ambient temp.105°C)	0.18Ω±20%	35MHz
LQH3NPZ100MJR□	_	10μH ±20%	1MHz	810mA	1200mA(Ambient temp.85°C) 530mA(Ambient temp.105°C)	0.24Ω±20%	30MHz
LQH3NPZ150MJR□	_	15µH ±20%	1MHz	650mA	870mA(Ambient temp.85°C) 370mA(Ambient temp.105°C)	0.38Ω±20%	25MHz
LQH3NPZ220MJR□	_	22µH ±20%	1MHz	520mA	800mA(Ambient temp.85°C) 350mA(Ambient temp.105°C)	0.50Ω±20%	20MHz
LQH3NPZ330MJR□	_	33μH ±20%	1MHz	420mA	630mA(Ambient temp.85°C) 280mA(Ambient temp.105°C)	0.79Ω±20%	15MHz
LQH3NPZ470MJR□	_	47μH ±20%	1MHz	360mA	570mA(Ambient temp.85°C) 240mA(Ambient temp.105°C)	1.0Ω±20%	10MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C $\,$

Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

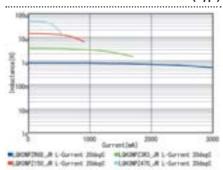
When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°Cmax. (ambient temperature 85°C).

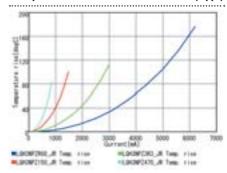
Continued on the following page. 7



RF Inductors

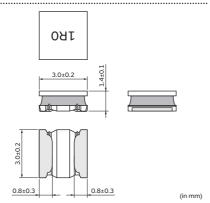
Inductance-Current Characteristics (Typ.)





LQH3NPZ_ME Series 1212 (3030) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part Number		Inductance		Dated Current (leat)	Dated Current (Items)	DC Besistane	CD F* (min.)	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)	
LQH3NPZ1R0MME	-	1.0µH ±20%	1MHz	2350mA	3000mA(Ambient temp.85°C) 1600mA(Ambient temp.105°C)	0.025Ω±20%	100MHz	
LQH3NPZ2R2MME□	-	2.2µH ±20%	1MHz	1800mA	2100mA(Ambient temp.85°C) 1220mA(Ambient temp.105°C)	0.065Ω±20%	60MHz	
LQH3NPZ3R3MME□	-	3.3µH ±20%	1MHz	1520mA	1900mA(Ambient temp.85°C) 1150mA(Ambient temp.105°C)	0.084Ω±20%	55MHz	
LQH3NPZ4R7MME□	_	4.7μH ±20%	1MHz	1300mA	1300mA 1700mA(Ambient temp.85°C) 1000mA(Ambient temp.105°C)		40MHz	
LQH3NPZ6R8MME□	-	6.8µH ±20%	1MHz	1040mA	1040mA 1450mA(Ambient temp.85°C) 900mA(Ambient temp.105°C)		30MHz	
LQH3NPZ100MME□	-	10μH ±20%	1MHz	810mA	1280mA(Ambient temp.85°C) 800mA(Ambient temp.105°C)	0.19Ω±20%	20MHz	
LQH3NPZ150MME□	_	15µH ±20%	1MHz	660mA	1020mA(Ambient temp.85°C) 620mA(Ambient temp.105°C)	0.29Ω±20%	15MHz	
LQH3NPZ220MME□	_	22µH ±20%	1MHz	570mA	860mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)	0.40Ω±20%	10MHz	
LQH3NPZ330MME□	_	33µH ±20%	1MHz	440mA	760mA(Ambient temp.85°C) 460mA(Ambient temp.105°C)	0.55Ω±20%	8MHz	
LQH3NPZ470MME□	-	47μH ±20%	H ±20% 1MHz 380mA 610mA(Ambient temp.85°C) 380mA(Ambient temp.105°C)		0.82Ω±20%	5MHz		
LQH3NPZ560MME□	-	56μH ±20%	1MHz	350mA	350mA 500mA(Ambient temp.85°C) 320mA(Ambient temp.105°C)		5MHz	
LQH3NPZ680MME□	-	68μH ±20%	1MHz	310mA 470mA(Ambient temp.85°C) 300mA(Ambient temp.105°C)		1.15Ω±20%	5MHz	
LQH3NPZ101MME□	-	100µH ±20%	1MHz	260mA	430mA(Ambient temp.85°C) 270mA(Ambient temp.105°C)	1.59Ω±20%	3MHz	

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

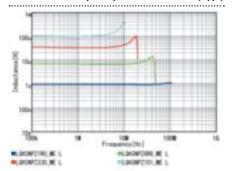
*S.R.F: Self Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°Cmax. (ambient temperature 85°C).

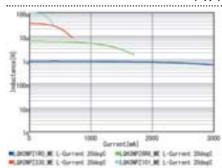
RF Inductors

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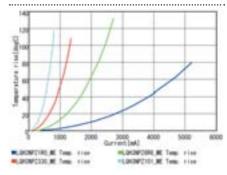
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)

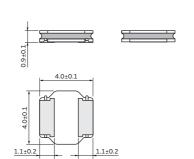


Temperature Rise Characteristics (Typ.)



LQH44PZ_GR Series 1515 (4040) inch (mm)

Appearance/Dimensions



Packaging

Со	de	Packaging	Minimum Quantity
ŀ	(ø330mm Embossed Taping	4500
L	-	ø180mm Embossed Taping	1000

(in mm)

Rated Value (□: packaging code)

Nated Value (Packaging code)									
Part N	umber	Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S D E* (min.)		
Infotainment	Powertrain/Safety	inductance	Test Frequency		Rated Current (Itemp)"	DC Resistance	3.K.F" (IIIII.)		
LQH44PZR68NGR□	-	0.68µH ±30%	1MHz	2400mA	2500mA(Ambient temp.85°C) 1500mA(Ambient temp.105°C)	0.043Ω±20%	54MHz		
LQH44PZ2R2NGR□	-	2.2μH ±30%	1MHz	1600mA	2000mA(Ambient temp.85°C) 1200mA(Ambient temp.105°C)	0.074Ω±20%	45MHz		
LQH44PZ3R3NGR□	-	3.3µH ±30%	1MHz	1500mA	1700mA(Ambient temp.85°C) 1000mA(Ambient temp.105°C)	0.11Ω±20%	25MHz		
LQH44PZ4R7MGR□	-	4.7μH ±20%	1MHz	1200mA	1600mA(Ambient temp.85°C) 960mA(Ambient temp.105°C)	0.13Ω±20%	17MHz		
LQH44PZ6R8MGR□	-	6.8µH ±20%	1MHz	850mA	1400mA(Ambient temp.85°C) 840mA(Ambient temp.105°C)	0.17Ω±20%	15MHz		
LQH44PZ100MGR□	-	10μH ±20%	1MHz	800mA	1100mA(Ambient temp.85°C) 660mA(Ambient temp.105°C)	0.27Ω±20%	13MHz		
LQH44PZ150MGR□	-	15µH ±20%	1MHz	640mA	900mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)	0.42Ω±20%	10MHz		
LQH44PZ220MGR□	-	22µH ±20%	1MHz	500mA	750mA(Ambient temp.85°C) 450mA(Ambient temp.105°C)	0.57Ω±20%	8MHz		
LQH44PZ330MGR□	-	33µH ±20%	1MHz	400mA	480mA(Ambient temp.85°C) 280mA(Ambient temp.105°C)	1.4Ω±20%	6MHz		
LQH44PZ470MGR□	_	47μH ±20%	1MHz	360mA	410mA(Ambient temp.85°C) 240mA(Ambient temp.105°C)	1.7Ω±20%	6MHz		

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 105°C $\,$

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

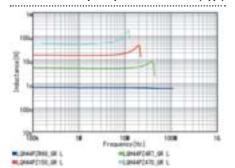
When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the self-temperature rise shall be limited to 40°C Max(ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°C max(ambient temperature 85-105°C).



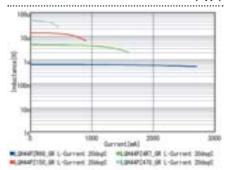
RF Inductors

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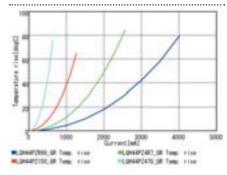
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)

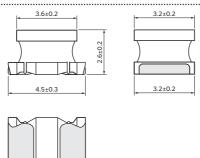


Temperature Rise Characteristics (Typ.)



LQH43PZ_26/LQH43PH_26 Series 1812 (4532) inch (mm)

Appearance/Dimensions



1.0min

Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	2500
L	ø180mm Embossed Taping	500

Rated Value (□: packaging code)

Part N	lumber	Inductance			2.1.12		C D F* (min)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F* (min.)
LQH43PZ1R0N26□	LQH43PH1R0N26□	1.0µH ±30%	1MHz	3400mA	3300mA(Ambient temp.85°C) 1410mA(Ambient temp.105°C)	0.026Ω±20%	100MHz
LQH43PZ2R2M26□	LQH43PH2R2M26□	2.2µH ±20%	1MHz	2300mA	2500mA(Ambient temp.85°C) 1120mA(Ambient temp.105°C)	0.042Ω±20%	45MHz
LQH43PZ3R3M26□	LQH43PH3R3M26□	3.3µH ±20%	1MHz	1800mA	2100mA(Ambient temp.85°C) 1000mA(Ambient temp.105°C)	0.052Ω±20%	40MHz
LQH43PZ4R7M26□	LQH43PH4R7M26□	4.7μH ±20%	1MHz	1400mA	1600mA(Ambient temp.85°C) 780mA(Ambient temp.105°C)	0.075Ω±20%	35MHz
LQH43PZ6R8M26□	LQH43PH6R8M26□	6.8µH ±20%	1MHz	1200mA	1400mA(Ambient temp.85°C) 760mA(Ambient temp.105°C)	0.098Ω±20%	30MHz
LQH43PZ8R2M26□	LQH43PH8R2M26□	8.2µH ±20%	1MHz	1100mA	1300mA(Ambient temp.85°C) 670mA(Ambient temp.105°C)	0.128Ω±20%	25MHz
LQH43PZ100M26□	LQH43PH100M26□	10μH ±20%	1MHz	1050mA	1170mA(Ambient temp.85°C) 620mA(Ambient temp.105°C)	0.147Ω±20%	20MHz
LQH43PZ220M26□	LQH43PH220M26□	22μH ±20%	1MHz	700mA	780mA(Ambient temp.85°C) 400mA(Ambient temp.105°C)	0.327Ω±20%	15MHz
LQH43PZ470M26□	LQH43PH470M26□	47μH ±20%	1MHz	470mA	520mA(Ambient temp.85°C) 280mA(Ambient temp.105°C)	0.718Ω±20%	8MHz
LQH43PZ101M26□	LQH43PH101M26□	100μH ±20%	1MHz	320mA	320mA(Ambient temp.85°C) 180mA(Ambient temp.105°C)	1.538Ω±20%	4MHz
LQH43PZ151M26□	LQH43PH151M26□	150µH ±20%	1MHz	280mA	260mA(Ambient temp.85°C) 140mA(Ambient temp.105°C)	2.362Ω±20%	3MHz
LQH43PZ221M26□	LQH43PH221M26□	220µH ±20%	1MHz	220mA	240mA(Ambient temp.85°C) 130mA(Ambient temp.105°C)	2.900Ω±20%	2MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C $\,$

Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

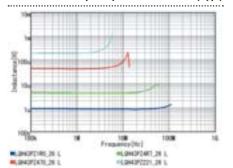
*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

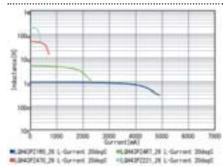
When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.



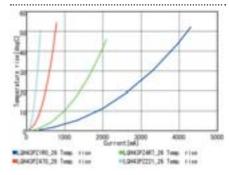
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)

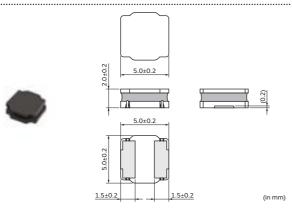


Temperature Rise Characteristics (Typ.)



LQH5BPZ_TO Series 2020 (5050) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	3000
L	ø180mm Embossed Taping	500

Rated Value (□: packaging code)

Part N	lumber	Inductance F		Rated Current (Isat)*	Data d Comment (the search	DO De distance	C D F* (i)	
Infotainment	Powertrain/Safety	Inductance	Test Frequency Rated Current (ISAL)		Rated Current (Itemp)*	DC Resistance	S.R.F* (MIN.)	
LQH5BPZR47NT0□	_	0.47µH ±30%	100kHz	7.7A	4.0A(Ambient temp.85°C) 2.05A(Ambient temp.105°C)	0.012Ω±20%	220MHz	
LQH5BPZ1R0NT0	_	1.0µH ±30%	100kHz	5.8A	3.1A(Ambient temp.85°C) 1.68A(Ambient temp.105°C)	0.019Ω±20%	90MHz	
LQH5BPZ1R2NT0□	_	1.2µH ±30%	100kHz	5.4A	3.1A(Ambient temp.85°C) 1.68A(Ambient temp.105°C)	0.019Ω±20%	90MHz	
LQH5BPZ1R5NT0□	_	1.5µH ±30%	100kHz	5.0A	3.0A(Ambient temp.85°C) 1.63A(Ambient temp.105°C)	0.024Ω±20%	70MHz	
LQH5BPZ2R2NT0□	_	2.2µH ±30%	100kHz	4.0A	2.6A(Ambient temp.85°C) 1.37A(Ambient temp.105°C)	0.030Ω±20%	55MHz	
LQH5BPZ2R7NT0□	_	2.7µH ±30%	100kHz	3.8A	2.5A(Ambient temp.85°C) 1.23A(Ambient temp.105°C)	0.035Ω±20%	50MHz	
LQH5BPZ3R3NT0□	_	3.3µH ±30%	100kHz	3.5A	2.3A(Ambient temp.85°C) 1.21A(Ambient temp.105°C)	0.044Ω±20%	40MHz	
LQH5BPZ4R7NT0□	_	4.7μH ±30%	100kHz	3.0A	2.0A(Ambient temp.85°C) 1.09A(Ambient temp.105°C)	0.058Ω±20%	40MHz	
LQH5BPZ6R8NT0□	_	6.8µH ±30%	100kHz	2.5A	1.65A(Ambient temp.85°C) 0.96A(Ambient temp.105°C)	0.083Ω±20%	30MHz	
LQH5BPZ100MT0□	_	10μH ±20%	100kHz	2.0A	1.60A(Ambient temp.85°C) 0.87A(Ambient temp.105°C)	0.106Ω±20%	25MHz	
LQH5BPZ150MT0□	_	15µH ±20%	100kHz	1.6A	1.20A(Ambient temp.85°C) 0.62A(Ambient temp.105°C)	0.187Ω±20%	18MHz	
LQH5BPZ220MT0□	_	22µH ±20%	100kHz	1.4A	1.05A(Ambient temp.85°C) 0.55A(Ambient temp.105°C)	0.259Ω±20%	15MHz	

Operating temp.range (Self-temp.rise included): -40 to 125°C $\,$

Operating temp.range (Self-temp.rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

Only for reflow soldering

*Isat: Rated Current based on Inductance change

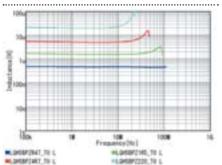
*Itemp: Rated Current based on Temperature rise

*S.R.F: Self Resonant Frequency

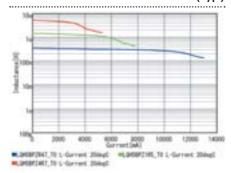
When rated current is applied to the products, inductance will be within ±30% of initial inductance value. When rated current is applied to the products, self-temperature rise shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.



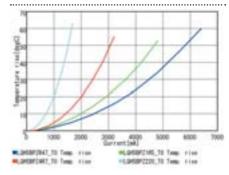
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)

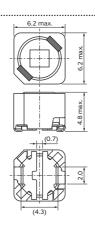


Temperature Rise Characteristics (Typ.)



MBH6045C High Current Series 2424 (6262) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	1000



Rated Value (□: packaging code)

Part	Part Number		Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)	Rated Current (itemp)	DC Resistance	
_	MBH6045C-1R5NA	1.5µH ±30%	0.1MHz	6300mA	4300mA	0.017Ω±30%	
_	MBH6045C-3R3NA	3.3µH ±30%	0.1MHz	4100mA	3400mA	0.024Ω±30%	
_	MBH6045C-4R7NA	4.7μH ±30%	0.1MHz	3300mA	2800mA	0.029Ω±30%	
_	MBH6045C-6R8NA	6.8µH ±30%	0.1MHz	2700mA	2100mA	0.051Ω±30%	
_	MBH6045C-100MA	10μH ±20%	0.1MHz	2300mA	2000mA	0.063Ω±20%	
_	MBH6045C-150MA	15µH ±20%	0.1MHz	1800mA	1500mA	0.099Ω±20%	
_	MBH6045C-220MA	22µH ±20%	0.1MHz	1500mA	1200mA	0.139Ω±20%	
_	MBH6045C-330MA	33µH ±20%	0.1MHz	1200mA	1100mA	0.178Ω±20%	
_	MBH6045C-470MA	47μH ±20%	0.1MHz	1100mA	1000mA	0.256Ω±20%	
_	MBH6045C-680MA	68µH ±20%	0.1MHz	900mA	840mA	0.347Ω±20%	
_	MBH6045C-101MA	100µH ±20%	0.1MHz	710mA	700mA	0.487Ω±20%	
_	MBH6045C-151MA	150µH ±20%	0.1MHz	580mA	510mA	0.772Ω±20%	
_	MBH6045C-221MA	220µH ±20%	0.1MHz	470mA	480mA	1.080Ω±20%	

Operating temp.range (Self-temp.rise included): -40 to 150°C $\,$

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

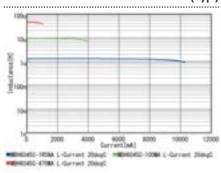
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 10\%. \ (The \ ambient \ reference \ temperature \ is \ 25^\circ\text{C})$

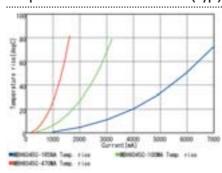
Rated current (Itemp) is specified when temperature of inductor the is raised 40°C by DC current. (The ambient reference temperature is 25°C)

Class of Magnetic Shield: Ferrite Core

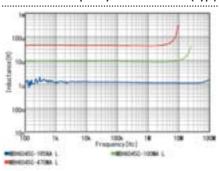
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

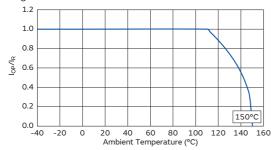


Inductance-Frequency Characteristics (Typ.)



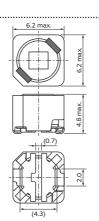
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MBH6045C Low Rdc Series 2424 (6262) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	1000
		1



Rated Value (□: packaging code)

Part I	Number		Inductance	5	D. 10	202 11
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance
_	MBH6045C-1R0ND□	1.0μH ±30%	0.1MHz	4400mA	4400mA	0.014Ω±30%
_	MBH6045C-1R5NB□	1.5µH ±30%	0.1MHz	3500mA	4400mA	0.015Ω±30%
_	MBH6045C-3R3NB□	3.3µH ±30%	0.1MHz	2300mA	3500mA	0.019Ω±30%
_	MBH6045C-4R7NB□	4.7μH ±30%	0.1MHz	2000mA	3200mA	0.023Ω±30%
_	MBH6045C-6R8NB□	6.8µH ±30%	0.1MHz	1600mA	2600mA	0.027Ω±30%
_	MBH6045C-100MB	10μH ±20%	0.1MHz	1200mA	2500mA	0.038Ω±20%
_	MBH6045C-150MB□	15µH ±20%	0.1MHz	900mA	2100mA	0.055Ω±20%
_	MBH6045C-220MB□	22μH ±20%	0.1MHz	900mA	1700mA	0.078Ω±20%
_	MBH6045C-330MB□	33µH ±20%	0.1MHz	700mA	1500mA	0.103Ω±20%
_	MBH6045C-470MB□	47μH ±20%	0.1MHz	560mA	1100mA	0.130Ω±20%
_	MBH6045C-680MB□	68µH ±20%	0.1MHz	480mA	940mA	0.215Ω±20%
_	MBH6045C-101MB□	100µH ±20%	0.1MHz	400mA	830mA	0.340Ω±20%
_	MBH6045C-151MB□	150µH ±20%	0.1MHz	320mA	710mA	0.480Ω±20%
_	MBH6045C-221MB□	220µH ±20%	0.1MHz	260mA	560mA	0.780Ω±20%
_	MBH6045C-331MB□	330µH ±20%	0.1MHz	230mA	480mA	0.970Ω±20%
_	MBH6045C-471MB□	470µH ±20%	0.1MHz	180mA	410mA	1.420Ω±20%

(in mm)

Operating temp.range (Self-temp.rise included): -40 to 150°C $\,$

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 10%. (The ambient reference temperature is 25°C)

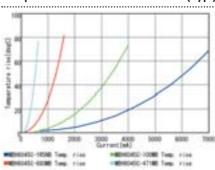
 $Rated \ current \ (Itemp) \ is \ specified \ when \ temperature \ of inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C)$

Class of Magnetic Shield: Ferrite Core

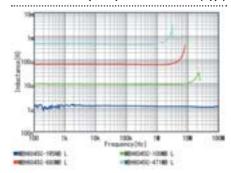
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

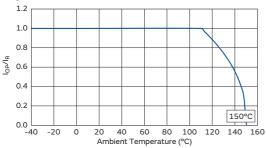


Inductance-Frequency Characteristics (Typ.)



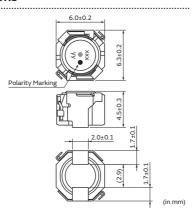
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MDH6045C High Current Series 2524 (6360) inch (mm)

Appearance/Dimensions



Packaging

(Code	Packaging	Minimum Quantity
	=P3	ø330mm Embossed Taping	1000

Rated Value (□: packaging code)

Part N	Number	Inductance	Inductance	Dated Comment (last)*	Dated Commont (Homen)*	DC Besisteres
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance
_	MDH6045C-1R0NA	1.0μH ±30%	0.1MHz	5800mA	3900mA	0.011Ω±30%
_	MDH6045C-1R5NA	1.5µH ±30%	0.1MHz	5000mA	3600mA	0.013Ω±30%
_	MDH6045C-2R2NA	2.2μH ±30%	0.1MHz	4200mA	3400mA	0.015Ω±30%
_	MDH6045C-3R3NA	3.3µH ±30%	0.1MHz	3600mA	3000mA	0.019Ω±30%
_	MDH6045C-4R7NA	4.7μH ±30%	0.1MHz	2900mA	2700mA	0.023Ω±30%
_	MDH6045C-6R8NA	6.8µH ±30%	0.1MHz	2500mA	2500mA	0.027Ω±30%
_	MDH6045C-100MA	10μH ±20%	0.1MHz	2000mA	1900mA	0.040Ω±30%
_	MDH6045C-150MA	15µH ±20%	0.1MHz	1600mA	1700mA	0.060Ω±30%
_	MDH6045C-220MA	22µH ±20%	0.1MHz	1400mA	1400mA	0.082Ω±30%
_	MDH6045C-330MA	33µH ±20%	0.1MHz	1000mA	1200mA	0.130Ω±30%
_	MDH6045C-470MA	47μH ±20%	0.1MHz	880mA	1000mA	0.160Ω±30%
_	MDH6045C-680MA	68µH ±20%	0.1MHz	720mA	800mA	0.220Ω±30%
_	MDH6045C-101MA	100µH ±20%	0.1MHz	600mA	640mA	0.340Ω±30%
_	MDH6045C-151MA	150µH ±20%	0.1MHz	520mA	540mA	0.520Ω±30%
_	MDH6045C-221MA	220µH ±20%	0.1MHz	400mA	440mA	0.720Ω±30%

Operating temp.range (Self-temp.rise included): -55 to 150°C

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

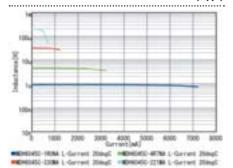
*Itemp: Rated Current based on Temperature rise

 $The saturation allowable \ DC \ current \ value \ is \ specified \ when \ the \ decrease \ of \ the \ nominal \ Inductance \ value \ at \ 30\%. (The \ ambient \ reference \ temperature \ is \ 20\%) \ decrease \ of \ the \ nominal \ inductance \ value \ at \ 30\%. (The \ ambient \ reference \ temperature \ is \ 20\%) \ decrease \ of \ the \ nominal \ inductance \ value \ at \ 30\%. (The \ ambient \ reference \ temperature \ is \ 20\%) \ decrease \ of \ the \ nominal \ inductance \ value \ at \ 30\%. (The \ ambient \ reference \ temperature \ is \ 20\%) \ decrease \ of \ the \ nominal \ inductance \ value \ at \ 30\%. (The \ ambient \ reference \ temperature \ is \ 20\%) \ decrease \ decrease \ decrease \ of \ the \ nominal \$

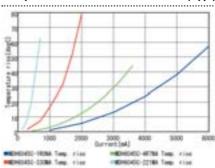
Rated Current (Based on Temperature rise) is specified when temperature of the inductor on our PCB for test purpose is raised 40°C by DC current. (The ambient reference temperature is 20°C)

Class of Magnetic Shield: Ferrite Core

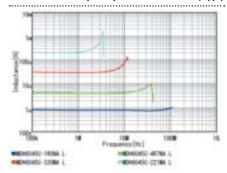
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

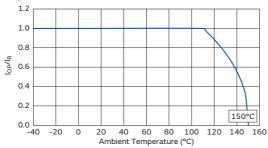


Inductance-Frequency Characteristics (Typ.)



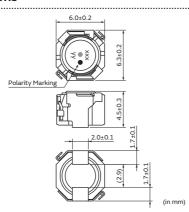
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MDH6045C Low Rdc Series 2524 (6360) inch (mm)

Appearance/Dimensions



Packaging

Co	ode	Packaging	Minimum Quantity
=	P3	ø330mm Embossed Taping	1000

Rated Value (□: packaging code)

Part	Number	la dicata a ca	Inductance	Data d Commant (last)*	Date d Comment (the man) #	DO Davistana
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance
_	MDH6045C-1R2NB□	1.2µH ±30%	0.1MHz	5500mA	3800mA	0.011Ω±30%
_	MDH6045C-100MB	10μH ±20%	0.1MHz	1800mA	2000mA	0.038Ω±30%
_	MDH6045C-150MB	15µH ±20%	0.1MHz	1400mA	1800mA	0.055Ω±30%
_	MDH6045C-220MB□	22μH ±20%	0.1MHz	1200mA	1400mA	0.080Ω±30%
_	MDH6045C-330MB□	33μH ±20%	0.1MHz	960mA	1300mA	0.105Ω±30%
_	MDH6045C-470MB□	47μH ±20%	0.1MHz	760mA	1100mA	0.130Ω±30%
_	MDH6045C-680MB	68μH ±20%	0.1MHz	680mA	840mA	0.200Ω±30%
_	MDH6045C-101MB□	100µH ±20%	0.1MHz	560mA	680mA	0.340Ω±30%
_	MDH6045C-151MB□	150µH ±20%	0.1MHz	440mA	580mA	0.500Ω±30%
_	MDH6045C-221MB□	220µH ±20%	0.1MHz	360mA	480mA	0.700Ω±30%
_	MDH6045C-331MB□	330µH ±20%	0.1MHz	300mA	380mA	0.970Ω±30%
_	MDH6045C-471MB□	470µH ±20%	0.1MHz	240mA	340mA	1.450Ω±30%

Operating temp.range (Self-temp.rise included): -55 to 150°C

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

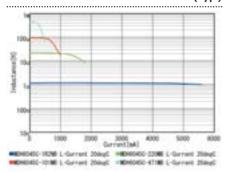
*Itemp: Rated Current based on Temperature rise

The saturation allowable DC current value is specified when the decrease of the nominal Inductance value at 30%. (The ambient reference temperature is 20°C)

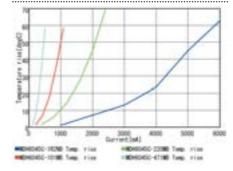
Rated Current (Based on Temperature rise) is specified when temperature of the inductor on our PCB for test purpose is raised 40°C by DC current. (The ambient reference temperature is 20°C)

Class of Magnetic Shield: Ferrite Core

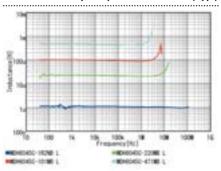
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



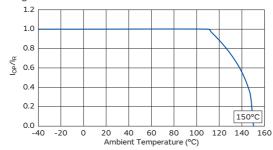
Inductance-Frequency Characteristics (Typ.)



Continued on the following page. ${\cal J}$

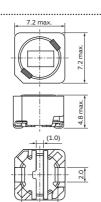
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MBH7045C High Current Series 2828 (7272) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	1000

Rated Value (□: packaging code)

Part	Number	Inductance	Inductance	Rated Current (Isat)*	Data d Comment (the man) #	DC Resistance
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)"	Rated Current (Itemp)*	DC Resistance
_	MBH7045C-2R2NB□	2.2µH ±30%	0.1MHz	4600mA	3500mA	0.0155Ω±20%
_	MBH7045C-3R3NB	3.3µH ±30%	0.1MHz	3300mA	3400mA	0.021Ω±20%
_	MBH7045C-4R7NB	4.7µH ±30%	0.1MHz	3000mA	2900mA	0.024Ω±20%
_	MBH7045C-6R8NB	6.8µH ±30%	0.1MHz	2400mA	2800mA	0.029Ω±20%
_	MBH7045C-100MB	10μH ±20%	0.1MHz	2000mA	2700mA	0.036Ω±20%
_	MBH7045C-150MB	15µH ±20%	0.1MHz	1600mA	2100mA	0.054Ω±20%
_	MBH7045C-220MB	22μH ±20%	0.1MHz	1400mA	1800mA	0.070Ω±20%
_	MBH7045C-330MB	33µH ±20%	0.1MHz	1100mA	1500mA	0.105Ω±20%
_	MBH7045C-470MB	47μH ±20%	0.1MHz	900mA	1100mA	0.150Ω±20%
_	MBH7045C-680MB	68μH ±20%	0.1MHz	750mA	1000mA	0.210Ω±20%
_	MBH7045C-101MB	100μH ±20%	0.1MHz	630mA	840mA	0.310Ω±20%
_	MBH7045C-151MB	150µH ±20%	0.1MHz	510mA	670mA	0.460Ω±20%
_	MBH7045C-221MB□	220µH ±20%	0.1MHz	400mA	550mA	0.690Ω±20%

Operating temp.range (Self-temp.rise included): -40 to 150°C

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

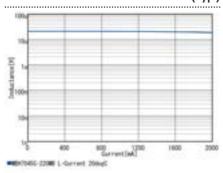
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 10\%. \ (The \ ambient \ reference \ temperature \ is \ 25^\circ\text{C})$

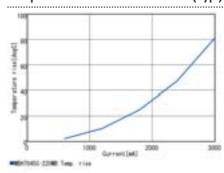
Rated current (Itemp) is specified when temperature of inductor the is raised 40°C by DC current. (The ambient reference temperature is 25°C)

Class of Magnetic Shield: Ferrite Core

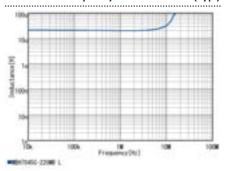
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

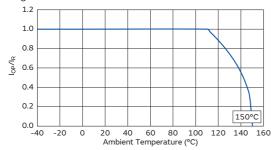


Inductance-Frequency Characteristics (Typ.)



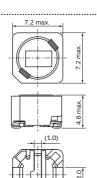
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MBH7045C Low Rdc Series 2828 (7272) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity	
=P3	ø330mm Embossed Taping	1000	



Rated Value (□: packaging code)

Part	Number		Inductance			
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance
_	MBH7045C-3R3NA	3.3µH ±30%	0.1MHz	2500mA	3500mA	0.019Ω±20%
_	MBH7045C-4R7NA	4.7μH ±30%	0.1MHz	2000mA	3200mA	0.023Ω±20%
_	MBH7045C-6R8NA	6.8µH ±30%	0.1MHz	1700mA	2700mA	0.028Ω±20%
_	MBH7045C-100MA	10μH ±20%	0.1MHz	1300mA	2500mA	0.036Ω±20%
_	MBH7045C-150MA	15µH ±20%	0.1MHz	1100mA	2100mA	0.052Ω±20%
_	MBH7045C-220MA	22µH ±20%	0.1MHz	1000mA	1900mA	0.061Ω±20%
_	MBH7045C-330MA	33µH ±20%	0.1MHz	800mA	1400mA	0.096Ω±20%
_	MBH7045C-470MA	47µH ±20%	0.1MHz	700mA	1300mA	0.125Ω±20%
_	MBH7045C-680MA	68µH ±20%	0.1MHz	590mA	1100mA	0.175Ω±20%
_	MBH7045C-101MA	100μH ±20%	0.1MHz	480mA	1000mA	0.250Ω±20%
_	MBH7045C-151MA	150µH ±20%	0.1MHz	390mA	790mA	0.340Ω±20%
_	MBH7045C-221MA	220µH ±20%	0.1MHz	340mA	650mA	0.520Ω±20%
_	MBH7045C-331MA	330µH ±20%	0.1MHz	250mA	540mA	0.740Ω±20%
_	MBH7045C-471MA	470μH ±20%	0.1MHz	220mA	430mA	1.050Ω±20%
_	MBH7045C-681MA	680μH ±20%	0.1MHz	200mA	360mA	1.480Ω±20%
_	MBH7045C-102MA	1000µH ±20%	0.1MHz	140mA	310mA	2.280Ω±20%

(in mm)

Operating temp.range (Self-temp.rise included): -40 to 150°C $\,$

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

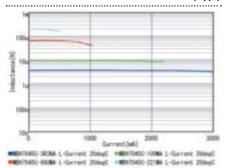
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 10\%. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C)$

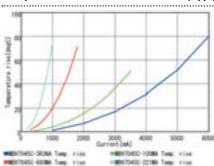
 $Rated \ current \ (Itemp) \ is \ specified \ when \ temperature \ of inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C)$

Class of Magnetic Shield: Ferrite Core

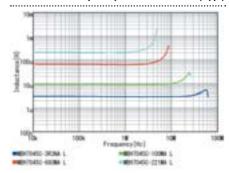
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

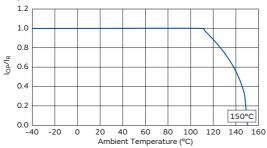


Inductance-Frequency Characteristics (Typ.)



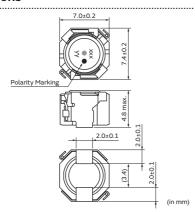
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MDH7045C Series 2928 (7470) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	1000

Rated Value (□: packaging code)

Part	Number		Inductance	5. 10	D. 10	202 ::
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance
_	MDH7045C-1R0NB	1.0μH ±30%	0.1MHz	8800mA	4700mA	0.009Ω±30%
_	MDH7045C-1R5NB	1.5µH ±30%	0.1MHz	7100mA	4300mA	0.010Ω±30%
_	MDH7045C-2R2NB□	2.2µH ±30%	0.1MHz	5800mA	4100mA	0.013Ω±30%
_	MDH7045C-3R3NB	3.3µH ±30%	0.1MHz	5000mA	3400mA	0.016Ω±30%
_	MDH7045C-4R7NB□	4.7μH ±30%	0.1MHz	4200mA	3000mA	0.018Ω±30%
_	MDH7045C-6R8NB	6.8µH ±30%	0.1MHz	3400mA	2800mA	0.022Ω±30%
_	MDH7045C-100MA	10μH ±20%	0.1MHz	2500mA	2600mA	0.033Ω±30%
_	MDH7045C-150MA	15µH ±20%	0.1MHz	2000mA	1800mA	0.055Ω±30%
_	MDH7045C-220MA	22μH ±20%	0.1MHz	1600mA	1700mA	0.069Ω±30%
_	MDH7045C-330MA	33µH ±20%	0.1MHz	1400mA	1300mA	0.097Ω±30%
_	MDH7045C-470MA	47μH ±20%	0.1MHz	1100mA	1100mA	0.13Ω±30%
_	MDH7045C-680MA	68μH ±20%	0.1MHz	960mA	880mA	0.20Ω±30%
_	MDH7045C-101MA	100µH ±20%	0.1MHz	750mA	800mA	0.29Ω±30%
_	MDH7045C-151MA	150µH ±20%	0.1MHz	640mA	600mA	0.43Ω±30%
_	MDH7045C-221MA	220µH ±20%	0.1MHz	530mA	510mA	0.55Ω±30%
_	MDH7045C-331MA	330µH ±20%	0.1MHz	420mA	490mA	0.80Ω±30%
_	MDH7045C-471MA□	470µH ±20%	0.1MHz	360mA	350mA	1.20Ω±30%

Operating temp.range (Self-temp.rise included): -55 to 150°C

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

 ${}^{\star}\text{Itemp:}$ Rated Current based on Temperature rise

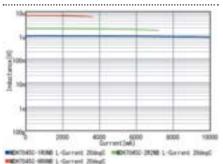
The saturation allowable DC current value is specified when the decrease of the nominal Inductance value at 30%.(The ambient reference temperature is 20°C)

Rated Current (Based on Temperature rise) is specified when temperature of the inductor on our PCB for test purpose is raised 40°C by DC current. (The ambient reference temperature is 20°C)

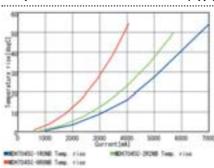
Class of Magnetic Shield: Ferrite Core

Continued on the following page. ${\cal P}$

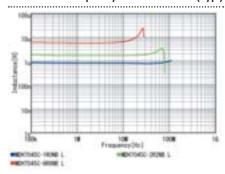
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

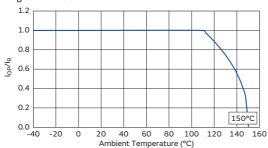


Inductance-Frequency Characteristics (Typ.)



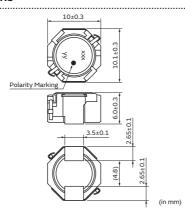
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MDH10060C Series 4039 (101100) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	500

Rated Value (□: packaging code)

	<u> </u>					
Part N	Number	Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance
Infotainment	Powertrain/Safety		Test Frequency	riadou dan one (idae)	raisa sarrena (isamp)	20110010001100
_	MDH10060C-4R7NA	4.7μH ±30%	0.1MHz	5900mA	4900mA	0.010Ω±30%
_	MDH10060C-6R8NA	6.8µH ±30%	0.1MHz	5000mA	4300mA	0.013Ω±30%
_	MDH10060C-100MA	10μH ±20%	0.1MHz	4100mA	3800mA	0.017Ω±30%
_	MDH10060C-150MA	15µH ±20%	0.1MHz	3400mA	3100mA	0.027Ω±30%
_	MDH10060C-220MA	22µH ±20%	0.1MHz	2800mA	2700mA	0.040Ω±30%
_	MDH10060C-330MA	33µH ±20%	0.1MHz	2200mA	2200mA	0.061Ω±30%
_	MDH10060C-470MA	47µH ±20%	0.1MHz	1900mA	2000mA	0.074Ω±30%
_	MDH10060C-680MA	68µH ±20%	0.1MHz	1600mA	1700mA	0.091Ω±30%
_	MDH10060C-101MA	100µH ±20%	0.1MHz	1300mA	1300mA	0.150Ω±30%
_	MDH10060C-151MA	150µH ±20%	0.1MHz	1000mA	1000mA	0.240Ω±30%
_	MDH10060C-221MA	220µH ±20%	0.1MHz	880mA	880mA	0.350Ω±30%
_	MDH10060C-331MA	330µH ±20%	0.1MHz	720mA	720mA	0.480Ω±30%
_	MDH10060C-471MA	470µH ±20%	0.1MHz	560mA	560mA	0.750Ω±30%

Operating temp.range (Self-temp.rise included): -55 to 150°C

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

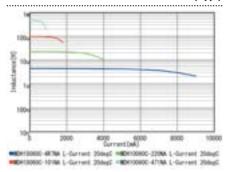
*Itemp: Rated Current based on Temperature rise

The saturation allowable DC current value is specified when the decrease of the nominal Inductance value at 30%. (The ambient reference temperature is 20°C) and the saturation of the saturat

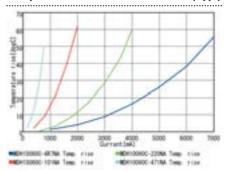
Rated Current (Based on Temperature rise) is specified when temperature of the inductor on our PCB for test purpose is raised 40°C by DC current. (The ambient reference temperature is 20°C)

Class of Magnetic Shield: Ferrite Core

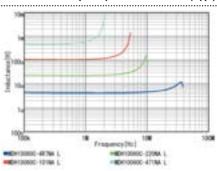
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



Inductance-Frequency Characteristics (Typ.)



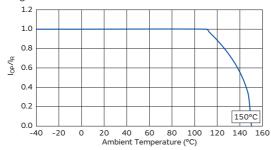
Continued on the following page. 🖊

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RF Inductors

Notice (Rating)

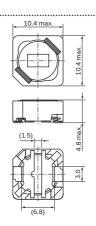
Max. current (DC, AC) as function of ambient temperature (derating curve).



MBH10145C Series 4141 (104104) inch (mm)

(in mm)

Appearance/Dimensions



Packaging

Cod	de	Packaging	Minimum Quantity
=P	3	ø330mm Embossed Taping	500

Rated Value (: packaging code)

lated value (packaging code)								
Par	Part Number		Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance		
Infotainment Powertrain/Safety		Inductance Test Frequency		Rated Current (Isat)"	Rated Current (Itemp)"	DC Resistance		
_	MBH10145C-3R3NA	3.3µH ±30%	0.1MHz	4900mA	4300mA	0.017Ω±209		
_	MBH10145C-5R6NA	5.6µH ±30%	0.1MHz	4100mA	3700mA	0.022Ω±209		
_	MBH10145C-100MA	10μH ±20%	0.1MHz	3100mA	3000mA	0.037Ω±20°		
_	MBH10145C-150MA	15µH ±20%	0.1MHz	2600mA	2500mA	0.048Ω±20°		
_	MBH10145C-220MA	22µH ±20%	0.1MHz	2200mA	2300mA	0.060Ω±20°		
_	MBH10145C-330MA	33µH ±20%	0.1MHz	1700mA	2100mA	0.082Ω±20°		
_	MBH10145C-470MA	47µH ±20%	0.1MHz	1600mA	1700mA	0.100Ω±20°		
_	MBH10145C-680MA	68µH ±20%	0.1MHz	1200mA	1500mA	0.140Ω±20°		
_	MBH10145C-101MA	100μH ±20%	0.1MHz	980mA	1200mA	0.200Ω±20°		
_	MBH10145C-151MA	150µH ±20%	0.1MHz	750mA	930mA	0.350Ω±20°		
_	MBH10145C-221MA	220µH ±20%	0.1MHz	680mA	850mA	0.470Ω±20°		
_	MBH10145C-331MA	330µH ±20%	0.1MHz	560mA	730mA	0.680Ω±20°		
_	MBH10145C-471MA	470µH ±20%	0.1MHz	450mA	560mA	1.030Ω±20°		
_	MBH10145C-681MA	680µH ±20%	0.1MHz	380mA	480mA	1.600Ω±20°		
_	MBH10145C-102MA	1000µH ±20%	0.1MHz	300mA	350mA	2.800Ω±20°		
_	MBH10145C-152MA	1500µH ±20%	0.1MHz	260mA	330mA	3.400Ω±20		

Operating temp.range (Self-temp.rise included): -40 to 150°C $\,$

Inductance:

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

 ${}^{\star}\text{Itemp:}$ Rated Current based on Temperature rise

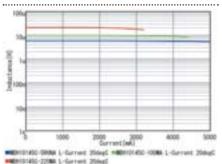
 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 10\%. \ (The \ ambient \ reference \ temperature \ is \ 25°C)$

 $Rated \ current \ (Itemp) \ is \ specified \ when \ temperature \ of inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C)$

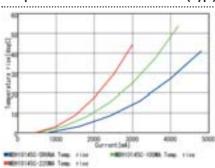
Class of Magnetic Shield: Ferrite Core



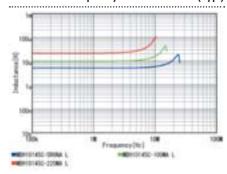
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

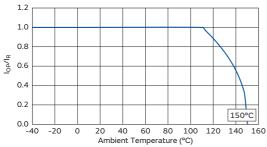


Inductance-Frequency Characteristics (Typ.)



Notice (Rating)

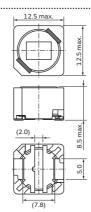
Max. current (DC, AC) as function of ambient temperature (derating curve).



MBH12282C Series 4949 (125125) inch (mm)

(in mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	300

Rated Value (□: packaging code)

Nated Value (Packaging code)								
Part Number Infotainment Powertrain/Safety		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance		
		inductance	Test Frequency		Rated Current (Itemp)	DC Resistance		
_	MBH12282C-2R0NA	2.0µH ±30%	0.1MHz	13000mA	7300mA	0.0091Ω±20%		
_	MBH12282C-3R9NA	3.9µH ±30%	0.1MHz	9100mA	6200mA	0.012Ω±20%		
_	MBH12282C-4R7NA	4.7µH ±30%	0.1MHz	7900mA	5900mA	0.013Ω±20%		
_	MBH12282C-6R8NA	6.8µH ±30%	0.1MHz	7000mA	5700mA	0.015Ω±20%		
_	MBH12282C-100MA	10µH ±20%	0.1MHz	5700mA	5300mA	0.019Ω±20%		
_	MBH12282C-150MA	15µH ±20%	0.1MHz	4400mA	4700mA	0.021Ω±20%		
_	MBH12282C-220MA	22µH ±20%	0.1MHz	3800mA	4000mA	0.029Ω±20%		
_	MBH12282C-330MA	33µH ±20%	0.1MHz	3000mA	3000mA	0.047Ω±20%		
_	MBH12282C-470MA	47µH ±20%	0.1MHz	2500mA	2600mA	0.066Ω±20%		
_	MBH12282C-680MA	68µH ±20%	0.1MHz	2100mA	2200mA	0.083Ω±20%		
_	MBH12282C-820MA	82µH ±20%	0.1MHz	1900mA	2200mA	0.091Ω±20%		
_	MBH12282C-101MA	100μH ±20%	0.1MHz	1700mA	1900mA	0.110Ω±20%		
_	MBH12282C-151MA	150µH ±20%	0.1MHz	1400mA	1600mA	0.160Ω±20%		
_	MBH12282C-221MA	220µH ±20%	0.1MHz	1100mA	1200mA	0.250Ω±20%		
_	MBH12282C-331MA	330µH ±20%	0.1MHz	900mA	1100mA	0.350Ω±20%		
_	MBH12282C-471MA	470µH ±20%	0.1MHz	840mA	930mA	0.460Ω±20%		
_	MBH12282C-681MA	680µH ±20%	0.1MHz	660mA	760mA	0.720Ω±20%		
_	MBH12282C-102MA	1000µH ±20%	0.1MHz	560mA	590mA	1.050Ω±20%		

Operating temp.range (Self-temp.rise included): -40 to 150°C $\,$

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC:

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

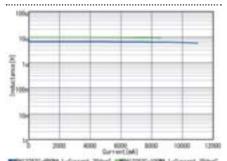
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 10\%. \ (The \ ambient \ reference \ temperature \ is \ 25^\circ C)$

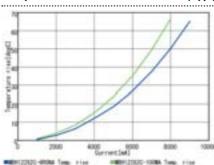
 $Rated \ current \ (Itemp) \ is \ specified \ when \ temperature \ of \ inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 25^{\circ}C)$

Class of Magnetic Shield: Ferrite Core

Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

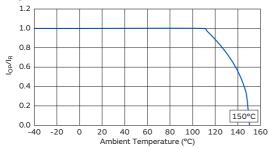


Inductance-Frequency Characteristics (Typ.)



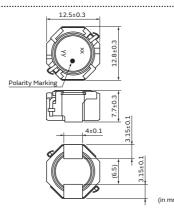
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



MDH12577C Series 5049 (128125) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	300

Rated Value (□: packaging code)

Part I	Number	Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	
Infotainment	Powertrain/Safety	madetance	Test Frequency	Nated Current (13at)	Rated Current (itemp)	Bonesistance	
_	MDH12577C-4R7NA	4.7μH ±30%	0.1MHz	11000mA	5400mA	0.009Ω±30%	
_	MDH12577C-6R8NA	6.8µH ±30%	0.1MHz	8600mA	4800mA	0.012Ω±30%	
_	MDH12577C-100MA	10μH ±20%	0.1MHz	7700mA	4700mA	0.014Ω±30%	
_	MDH12577C-150MA	15µH ±20%	0.1MHz	5700mA	3600mA	0.022Ω±30%	
_	MDH12577C-220MA	22µH ±20%	0.1MHz	4900mA	3000mA	0.033Ω±30%	
_	MDH12577C-330MA	33µH ±20%	0.1MHz	4000mA	2700mA	0.039Ω±30%	
_	MDH12577C-470MA	47µH ±20%	0.1MHz	3400mA	2100mA	0.066Ω±30%	
_	MDH12577C-680MA	68µH ±20%	0.1MHz	2800mA	1800mA	0.090Ω±30%	
_	MDH12577C-101MA	100µH ±20%	0.1MHz	2300mA	1600mA	0.108Ω±30%	
_	MDH12577C-151MA	150µH ±20%	0.1MHz	1900mA	1400mA	0.17Ω±30%	
_	MDH12577C-221MA	220µH ±20%	0.1MHz	1500mA	1100mA	0.25Ω±30%	
_	MDH12577C-331MA	330µH ±20%	0.1MHz	1300mA	900mA	0.41Ω±30%	
_	MDH12577C-471MA	470µH ±20%	0.1MHz	1000mA	700mA	0.54Ω±30%	

Operating temp.range (Self-temp.rise included): -55 to 150°C

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

The saturation allowable DC current value is specified when the decrease of the nominal Inductance value at 30%. (The ambient reference temperature is 20°C)

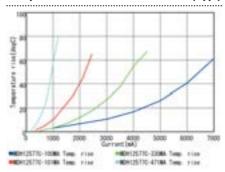
Rated Current (Based on Temperature rise) is specified when temperature of the inductor on our PCB for test purpose is raised 40°C by DC current. (The ambient reference temperature is 20°C)

Class of Magnetic Shield: Ferrite Core

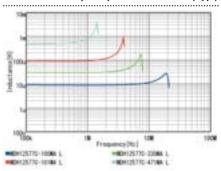
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

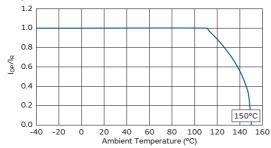


Inductance-Frequency Characteristics (Typ.)



Notice (Rating)

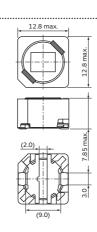
Max. current (DC, AC) as function of ambient temperature (derating curve).



MBH12575C Series 5050 (128128) inch (mm)

(in mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	300

Rated Value (□: packaging code)

	<u> </u>						
Part Number		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	
Infotainment	Powertrain/Safety		Test Frequency	, , , , , , , , , , , , , , , , , , , ,			
_	MBH12575C-2R7NA	2.7µH ±30%	0.1MHz	10000mA	7100mA	0.010Ω±20%	
_	MBH12575C-3R9NA	3.9µH ±30%	0.1MHz	8000mA	6500mA	0.011Ω±20%	
_	MBH12575C-5R6NA	5.6µH ±30%	0.1MHz	7000mA	6000mA	0.012Ω±20%	
_	MBH12575C-6R8NA	6.8µH ±30%	0.1MHz	5900mA	5600mA	0.014Ω±20%	
_	MBH12575C-100MA	10μH ±20%	0.1MHz	4900mA	5200mA	0.016Ω±20%	
_	MBH12575C-150MA	15µH ±20%	0.1MHz	3800mA	4700mA	0.019Ω±20%	
_	MBH12575C-220MA	22μH ±20%	0.1MHz	3100mA	4000mA	0.027Ω±20%	
_	MBH12575C-330MA	33μH ±20%	0.1MHz	2800mA	3400mA	0.040Ω±20%	
_	MBH12575C-470MA	47μH ±20%	0.1MHz	2100mA	2700mA	0.053Ω±20%	
_	MBH12575C-680MA	68μH ±20%	0.1MHz	1700mA	2100mA	0.077Ω±20%	
_	MBH12575C-101MA	100µH ±20%	0.1MHz	1500mA	1700mA	0.120Ω±20%	
_	MBH12575C-151MA	150µH ±20%	0.1MHz	1300mA	1400mA	0.170Ω±20%	
_	MBH12575C-221MA	220µH ±20%	0.1MHz	1000mA	1200mA	0.250Ω±20%	

Operating temp.range (Self-temp.rise included): -40 to 150°C

Inductance

Measured with an LCR meter 4284A (Keysight) or equivalent.

RDC

Measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

Only for reflow soldering

*Isat: Rated Current based on Inductance change

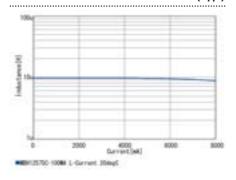
*Itemp: Rated Current based on Temperature rise

 $Rated \ current \ (Isat) \ is \ specified \ when \ the \ decrease \ of \ the \ initial \ inductance \ value \ at \ 10\%. \ (The \ ambient \ reference \ temperature \ is \ 25^\circ C)$

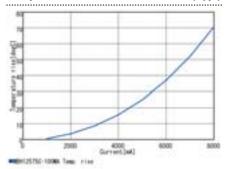
Rated current (Itemp) is specified when temperature of inductor the is raised 40°C by DC current. (The ambient reference temperature is 25°C)

Class of Magnetic Shield: Ferrite Core

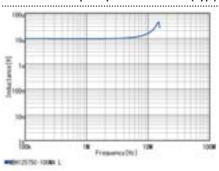
Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

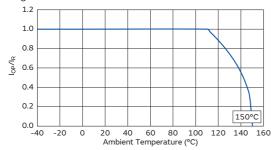


Inductance-Frequency Characteristics (Typ.)



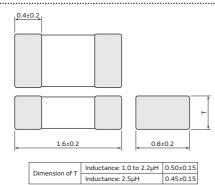
Notice (Rating)

Max. current (DC, AC) as function of ambient temperature (derating curve).



LQM18PZ_CH Series 0603 (1608) inch (mm)

Appearance/Dimensions



(in m

Packaging

Code	Packaging	Minimum Quantity		
D	ø180mm Paper Taping	4000		
В	Packing in Bulk	1000		

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance	S D E* (min)
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)"	Max. of DC Resistance	3.K.F" (IIIII.)
LQM18PZ1R0MCH	_	1.0µH ±20%	1MHz	600mA	950mA(Ambient temp.85°C) 650mA(Ambient temp.125°C)	0.29Ω	80MHz
LQM18PZ2R2MCH□	_	2.2μH ±20%	1MHz	200mA	750mA(Ambient temp.85°C) 500mA(Ambient temp.125°C)	0.48Ω	50MHz
LQM18PZ2R5NCH□	_	2.5μH ±30%	1MHz	100mA	900mA(Ambient temp.85°C) 640mA(Ambient temp.125°C)	0.30Ω	50MHz

Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

Only for reflow soldering

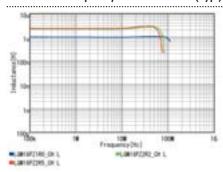
*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

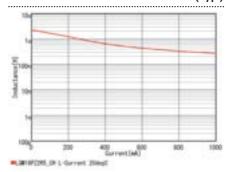
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQM18PZ_CH series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, Inductance will be within ±30% of initial Inductance value range. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°Cmax.

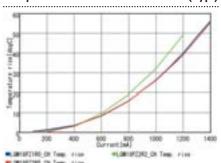
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



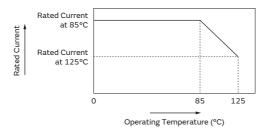
Temperature Rise Characteristics (Typ.)



Notice (Rating)

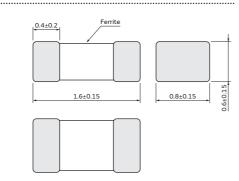
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM18PZ_DH Series 0603 (1608) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
В	Packing in Bulk	1000

(in mm)

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance	S D E* (min)
Infotainment	Powertrain/Safety		Test Frequency		Rated Current (Itemp)	riax. of DC Resistance	13.R.F. (IIIII.)
LQM18PZ2R2MDH□	_	2.2μH ±20%	1MHz	250mA	650mA(Ambient temp.85°C) 450mA(Ambient temp.125°C)	0.47Ω	80MHz

Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

Only for reflow soldering

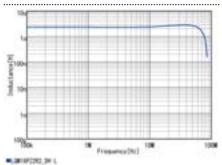
*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

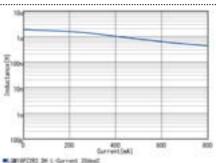
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQM18PZ_DH series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, Inductance will be within ±30% of initial Inductance value range. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°Cmax.

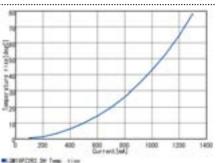
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



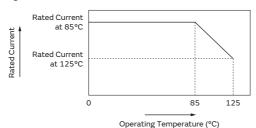
Temperature Rise Characteristics (Typ.)



Notice (Rating)

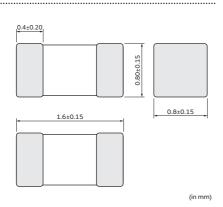
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM18PZ_FH Series 0603 (1608) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

Part Number		- Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance	S.D.E*/min.\	
	Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	I Hax. of DC Resistance	J.K.1 (IIIII.)
Ī	LQM18PZ2R2MFH□	_	2.2µH ±20%	1MHz	300mA	700mA(Ambient temp.85°C) 500mA(Ambient temp.125°C)	0.47Ω	80MHz

Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

Only for reflow soldering

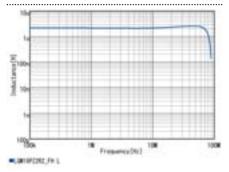
*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

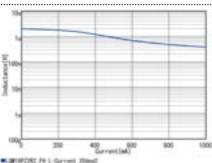
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQM18PZ_FH series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, Inductance will be within ±30% of initial Inductance value range. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°Cmax.

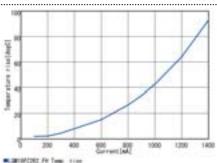
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



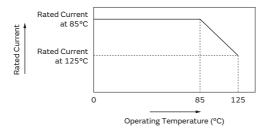
Temperature Rise Characteristics (Typ.)



Notice (Rating)

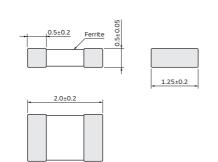
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM21PZ_C0 Series 0805 (2012) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
В	Packing in Bulk	1000

(in mm)

Rated Value (□: packaging code)

Part N	lumber	Inductance	Inductance	Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	muuctance	Test Frequency	Rated Current	DC Resistance	3.K.i (IIIII.)	
LQM21PZR47MC0□	_	0.47µH ±20%	1MHz	1.1A(Ambient temp.85°C) 0.82A(Ambient temp.125°C)	0.12Ω±25%	100MHz	
LQM21PZ1R0MC0	_	— 1.0µH ±20%	— 1.0µH ±20% 1MHz	0.8A(Ambient temp.85°C) 0.60A(Ambient temp.125°C)	0.19Ω±25%	90MHz	
LQM21PZ1R5MC0□	_	1.5µH ±20%	1MHz	0.7A(Ambient temp.85°C) 0.52A(Ambient temp.125°C)	0.26Ω±25%	70MHz	
LQM21PZ2R2MC0□	_	2.2μH ±20%	1MHz	0.6A(Ambient temp.85°C) 0.45A(Ambient temp.125°C)	0.34Ω±25%	50MHz	

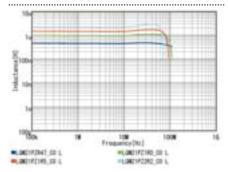
Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

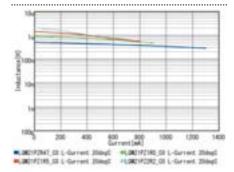
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

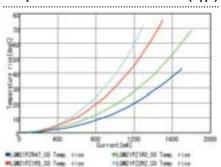
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



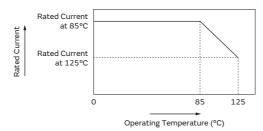
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RF Inductors

Notice (Rating)

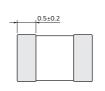
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM21PZ_G0 Series 0805 (2012) inch (mm)

Appearance/Dimensions







(in mm)

Packaging

Code	Packaging	Minimum Quantity		
D	ø180mm Paper Taping	4000		
В	Packing in Bulk	1000		

Rated Value (□: packaging code)

Part N	Part Number		Inductance	Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Rated Current	DC Resistance	3.K.i (IIIII.)	
LQM21PZR47MG0□	_	0.47µH ±20%	1MHz	1.3A(Ambient temp.85°C) 0.95A(Ambient temp.125°C)	0.075Ω(typ.)	100MHz	
LQM21PZR54MG0	_	— 0.54µH ±20%	— 0.54µH ±20% 1МН	1MHz	1.3A(Ambient temp.85°C) 0.95A(Ambient temp.125°C)	0.075Ω(typ.)	100MHz
LQM21PZ3R3MG0□	_	3.3µH ±20%	1MHz	0.8A(Ambient temp.85°C) 0.55A(Ambient temp.125°C)	0.165Ω(typ.)	30MHz	
LQM21PZ3R3NG0□	_	3.3µH ±30%	1MHz	0.8A(Ambient temp.85°C) 0.55A(Ambient temp.125°C)	0.165Ω(typ.)	30MHz	

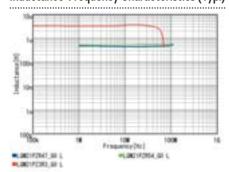
Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

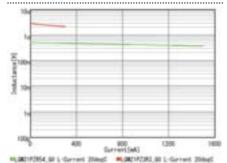
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding *85°C, derating of current is necessary for the LQM21P_G0 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

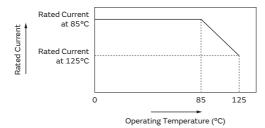


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Notice (Rating)

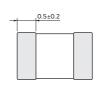
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM21PZ_GC/LQM21PH_GC Series 0805 (2012) inch (mm)

Appearance/Dimensions







(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

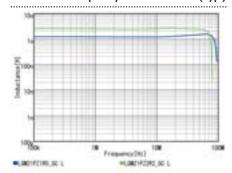
Part N	Part Number		Inductance	Rated Current	DC Resistance	S D E* (min)	
Infotainment		Inductance	Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)	
LQM21PZ1R0NGC	IO μH ±30%		1MHz	0.9A(Ambient temp.85°C) 0.65A(Ambient temp.125°C)	0.10Ω±25%	50MHz	
-	LQM21PH2R2MGC	2.2µH ±20%	1MHz	0.8A(Ambient temp.85°C) 0.6A(Ambient temp.125°C)	0.23Ω±25%	40MHz	
LQM21PZ2R2NGC□	LQM21PH2R2NGC□	2.2μH ±30%	1MHz	0.8A(Ambient temp.85°C) 0.6A(Ambient temp.125°C)	0.23Ω±25%	40MHz	

Operating temp.range: -55 to 125°C

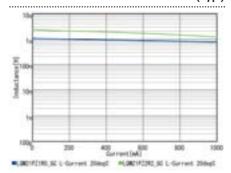
Class of Magnetic Shield: Ferrite Core

In operating temperatures exceeding +85°C, derating of current is necessary for the LQM21P_GC series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

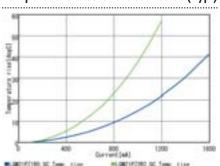
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



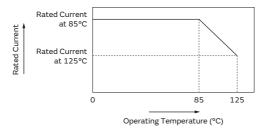
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^{*}S.R.F: Self Resonant Frequency

Notice (Rating)

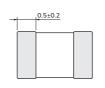
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM21PZ_GR Series 0805 (2012) inch (mm)

Appearance/Dimensions







(in mm)

Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

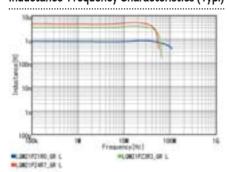
Part N	lumber	Inductance Inductance		Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	muuctance	Test Frequency	Rated Cullent	DC Resistance	3.K.i (IIIII.)	
LQM21PZ1R0NGR□	_	1.0µH ±30%	1MHz	1.3A(Ambient temp.85°C) 0.95A(Ambient temp.125°C)	0.066Ω±25%	50MHz	
LQM21PZ3R3MGR□	_	3.3µH ±20%	1MHz	1.0A(Ambient temp.85°C) 0.75A(Ambient temp.125°C)	0.15Ω±25%	30MHz	
LQM21PZ3R3NGR□	_	3.3µH ±30%	1MHz	1.0A(Ambient temp.85°C) 0.75A(Ambient temp.125°C)	0.15Ω±25%	30MHz	
LQM21PZ4R7MGR□	_	4.7µH ±20%	1MHz	0.8A(Ambient temp.85°C) 0.6A(Ambient temp.125°C)	0.23Ω±25%	30MHz	
LQM21PZ4R7NGR□	_	4.7μH ±30%	1MHz	0.8A(Ambient temp.85°C) 0.6A(Ambient temp.125°C)	0.23Ω±25%	30MHz	

Operating temp.range: -55 to 125°C

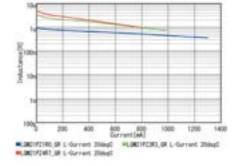
Class of Magnetic Shield: Ferrite Core

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

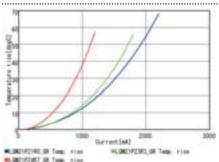
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



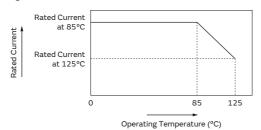
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^{*}S.R.F: Self Resonant Frequency

Notice (Rating)

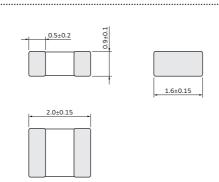
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM2MPZ_G0 Series 0806 (2016) inch (mm)

Appearance/Dimensions



Packaging

•	Code	Packaging	Minimum Quantity
	L	ø180mm Embossed Taping	3000
	В	Packing in Bulk	1000

(in mm)

Rated Value (□: packaging code)

(nated value (i paonaging code)							
Part N Infotainment	lumber Powertrain/Safety	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)		
LQM2MPZR47MG0□	-	0.47µH ±20%	1MHz	1.6A(Ambient temp.85°C) 1.2A(Ambient temp.125°C)	0.060Ω(typ.)	100MHz		
LQM2MPZR47NG0□	_	0.47µH ±30%	1MHz	1.6A(Ambient temp.85°C) 1.2A(Ambient temp.125°C)	0.060Ω(typ.)	100MHz		
LQM2MPZ1R0NG0	_	1.0µH ±30%	1MHz	1.4A(Ambient temp.85°C) 1.0A(Ambient temp.125°C)	0.085Ω(typ.)	60MHz		
LQM2MPZ1R5MG0	_	1.5µH ±20%	1MHz	1.2A(Ambient temp.85°C) 0.9A(Ambient temp.125°C)	0.11Ω(typ.)	50MHz		
LQM2MPZ1R5NG0□	_	1.5µH ±30%	1MHz	1.2A(Ambient temp.85°C) 0.9A(Ambient temp.125°C)	0.11Ω(typ.)	50MHz		
LQM2MPZ2R2MG0□	_	2.2µH ±20%	1MHz	1.2A(Ambient temp.85°C) 0.9A(Ambient temp.125°C)	0.11Ω(typ.)	40MHz		
LQM2MPZ2R2NG0□	_	2.2µH ±30%	1MHz	1.2A(Ambient temp.85°C) 0.9A(Ambient temp.125°C)	0.11Ω(typ.)	40MHz		
LQM2MPZ3R3NG0	_	3.3µH ±30%	1MHz	1.2A(Ambient temp.85°C) 0.9A(Ambient temp.125°C)	0.12Ω(typ.)	30MHz		
LQM2MPZ4R7MG0□	_	4.7µH ±20%	1MHz	1.1A(Ambient temp.85°C) 0.8A(Ambient temp.125°C)	0.14Ω(typ.)	20MHz		
LQM2MPZ4R7NG0□	_	4.7μH ±30%	1MHz	1.1A(Ambient temp.85°C) 0.8A(Ambient temp.125°C)	0.14Ω(typ.)	20MHz		

Operating temp.range: -55 to 125°C

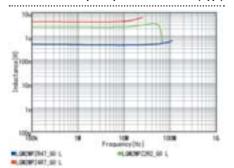
Class of Magnetic Shield: Ferrite Core

*S.R.F: Self Resonant Frequency

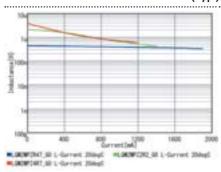
In operating temperatures exceeding +85°C, derating of current is necessary for the LQM2MPN_G0 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

Continued on the following page. 7

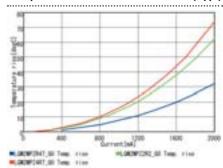
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



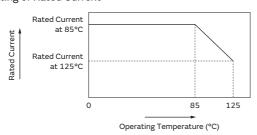
Temperature Rise Characteristics (Typ.)



Notice (Rating)

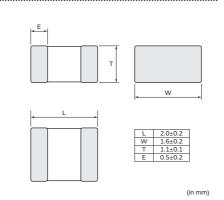
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM2MPZ_JH Series 0806 (2016) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current (Isat)*	Rated Current (Itemp)*	Max. of DC Resistance	S D E* /min \
Infotainment	Powertrain/Safety	inductance	Test Frequency		Rated Current (itemp)	Max. of DC Resistance	13.R.F. (IIIII.)
LQM2MPZR10MJH□	_	0.1µH ±20%	1MHz	4000mA	4000mA(Ambient temp.85°C) 3000mA(Ambient temp.125°C)	0.019Ω	200MHz

Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

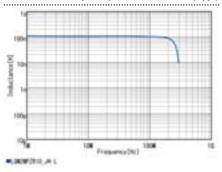
*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

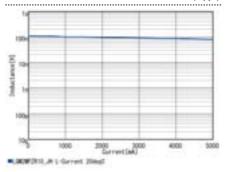
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQM2MPZ_JH series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°Cmax.

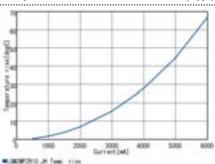
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



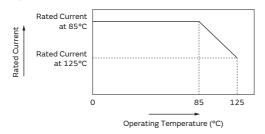
Temperature Rise Characteristics (Typ.)



Notice (Rating)

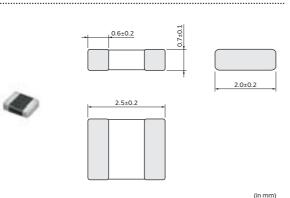
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM2HPZ_E0 Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

Part Number		Inductance Inductance		Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	DC Resistance	3.R.F" (IIIII.)	
LQM2HPZR56ME0□	_	0.56µH ±20%	1MHz	1.5A(Ambient temp.85°C) 1.1A(Ambient temp.125°C)	0.06Ω±25%	70MHz	

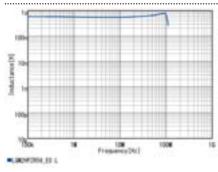
Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

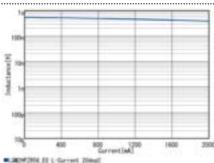
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

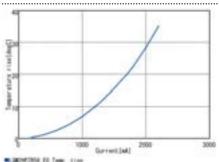
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



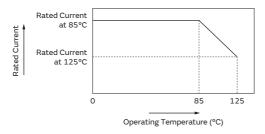
Temperature Rise Characteristics (Typ.)



Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

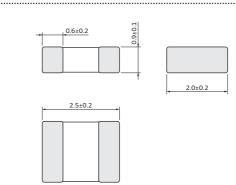
Please apply the derating curve shown in the chart according to the operating temperature.



LQM2HPZ_G0 Series 1008 (2520) inch (mm)

(in mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

Part N	umber	Inductance	Inductance	Rated Current	DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	muuctance	Test Frequency	Rated Current	DC Resistance	3.iv.i (iliiii.)	
LQM2HPZR47MG0□	_	0.47µH ±20%	1MHz	1.8A(Ambient temp.85°C) 1.3A(Ambient temp.125°C)	0.040Ω(typ.)	100MHz	
LQM2HPZ1R0MG0	_	1.0μH ±20%	1MHz	1.6A(Ambient temp.85°C) 1.2A(Ambient temp.125°C)	0.055Ω(typ.)	60MHz	
LQM2HPZ1R5MG0	_	1.5µH ±20%	1MHz	1.5A(Ambient temp.85°C) 1.1A(Ambient temp.125°C)	0.070Ω(typ.)	50MHz	
LQM2HPZ2R2MG0	_	2.2μH ±20%	1MHz	1.3A(Ambient temp.85°C) 0.97A(Ambient temp.125°C)	0.080Ω(typ.)	40MHz	
LQM2HPZ3R3MG0	_	3.3µH ±20%	1MHz	1.2A(Ambient temp.85°C) 0.9A(Ambient temp.125°C)	. 0.10Ω(tvp.)		
LQM2HPZ4R7MG0□	_	4.7μH ±20%	1MHz	1.1A(Ambient temp.85°C) 0.82A(Ambient temp.125°C)	0.11Ω(typ.)	25MHz	

Operating temp.range: -55 to 125°C

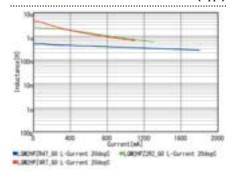
Class of Magnetic Shield: Ferrite Core

In operating temperatures exceeding +85°C, derating of current is necessary for the LQM2HP_GO series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

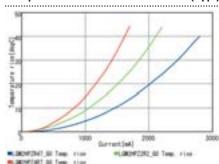
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



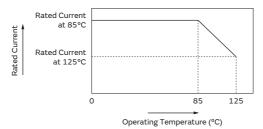
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^{*}S.R.F: Self Resonant Frequency

Notice (Rating)

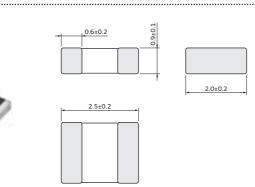
In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.



LQM2HPZ_GC Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

Part N	umber	Inductance Inductance		Rated Current	DC Resistance	S.D.E* (i)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)	
LQM2HPZ1R0MGC	_	1.0µH ±20%	1MHz	1.5A(Ambient temp.85⊠) 1.1A(Ambient temp.125⊠)	0.08Ω±25%	50MHz	
LQM2HPZ3R3MGC	_	3.3µH ±20%	1MHz	1A(Ambient temp.85°C) 0.75A(Ambient temp.125°C)	0.16Ω±25%	30MHz	
LQM2HPZ4R7MGC□	_	4.7μH ±20%	1MHz	0.8A(Ambient temp.85°C) 0.6A(Ambient temp.125°C) 0.18Ω±25%		25MHz	

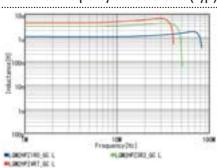
(in mm)

Operating temp.range: -55 to 125°C Class of Magnetic Shield: Ferrite Core

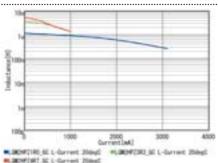
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

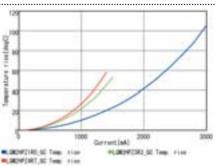
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



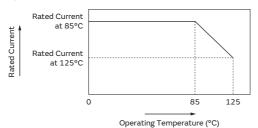
Temperature Rise Characteristics (Typ.)



Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

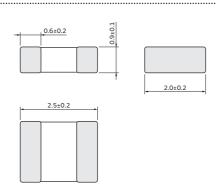
Please apply the derating curve shown in the chart according to the operating temperature.





LQM2HPZ_GS Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current	DC Resistance	CD Et (min)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)	
LQM2HPZ2R2MGS	_	2.2µH ±20%	1MHz	1.1A(Ambient temp.85°C) 0.82A(Ambient temp.125°C)	0.18Ω±25%	40MHz	
LQM2HPZ3R3MGS	_	3.3µH ±20%	1MHz	1.05A(Ambient temp.85°C) 0.78A(Ambient temp.125°C)	0.21Ω±25%	20MHz	
LQM2HPZ4R7MGS	_	4.7µH ±20%	1MHz	1A(Ambient temp.85°C) 0.75A(Ambient temp.125°C)	0.25Ω±25%	20MHz	

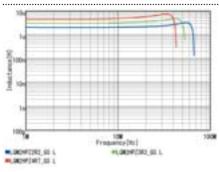
Operating temp.range: -55 to 125°C

Class of Magnetic Shield: Ferrite Core

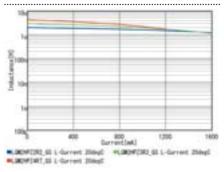
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

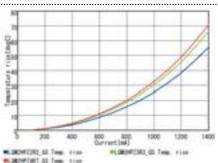
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



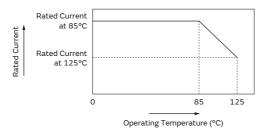
Temperature Rise Characteristics (Typ.)



Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

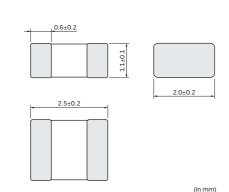
Please apply the derating curve shown in the chart according to the operating temperature.





LQM2HPZ_J0 Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

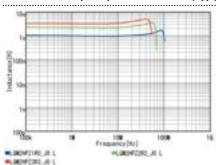
Part N	lumber	Inductance	Inductance	Rated Current	DC Resistance	CDF*(i-)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)	
LQM2HPZ1R0MJ0□	-	1.0µH ±20%	1MHz	1MHz 1.5A(Ambient temp.85°C) 1.1A(Ambient temp.125°C)		70MHz	
LQM2HPZ2R2MJ0□	_	2.2µH ±20%	1MHz	1A(Ambient temp.85°C) 0.75A(Ambient temp.125°C	0.12Ω±25%	40MHz	
LQM2HPZ3R3MJ0□	_	3.3µH ±20%	1MHz	1A(Ambient temp.85°C) 0.75A(Ambient temp.125°C) 0.12Ω±25%		30MHz	

Operating temp.range: -55 to 125°C Class of Magnetic Shield: Ferrite Core

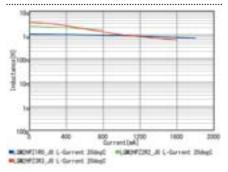
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°Cmax.

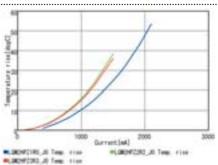
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



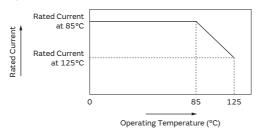
Temperature Rise Characteristics (Typ.)



Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart

Please apply the derating curve shown in the characteristic according to the operating temperature.





Inductors for Power Lines (LQ Series) (1) Caution/Notice

● (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.

For the usage of powertrain and safety be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product. 2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the 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

● Notice

Storage and Operating Condition

<Operating Environment>

Do not use products in chemical atmosphere such as chlorine gas, acid or sulfide gas.

- <Storage Requirements>
- 1. Storage Period
 - LQM series should be used within 6 months; the other products should be used within 12 months.

 Check solderability if this period is exceeded.
- 2. Storage Conditions
 - (1) Store products in a warehouse in compliance with the following conditions:

Temperature: -10 to +40°C.

Humidity: 15 to 85% (relative humidity)

Do not subject products to rapid changes in temperature and humidity.

Do not store them in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas. This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

- (2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.
- (3) Store products on pallets to protect from humidity, dust, etc.
- (4) Avoid heat shock, vibration, direct sunlight, etc.

Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

LQH_C/D/P series

- To prevent breaking the wire, avoid touching with sharp material, such as tweezers or the bristles of a cleaning brush, to the wire wound portion of this product.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.
- Temperature may rise up to max. 40°C when applying the rated current to Inductors for Power Lines. Be careful of the temperature rating of the circuit board and components around the chip Inductors.

LOM series

- There is the possibility that magnetism may change the inductance value. Do not use a magnet or tweezers with magnetism when handling chip inductors. (The tip of the tweezers should be molded with resin or pottery.)
- When the excessive current over rated current is applied, it may cause the inductance value to change due to magnetism.

<Transportation>

Do not apply excessive vibration or mechanical shock to products.

<Resin Coating>

When coating products with resin, the relatively high resin curing stress may change inductance values. For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

Inductors for Power Lines (LQ Series) ①Caution/Notice

Continued from the preceding page.

(LQH series)

An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

<Rated Current>

(LQH2HP_JR Series·LQH44P_GR Series) Inductance will be more than the value, which is 30% down from minimum rated Inductance value. (Other LQH_P Series)

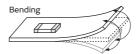
Inductance will be within ±30% of nominal Inductance value.

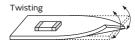
Based on Temperature Rise
 For LQH_P series, rated current is set to keep
 temperature rise caused by self heating 40°C or less.
 For other Inductors for Power Lines, please refer to individual specifications.

<Handling of a Substrate>

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate.

Excessive mechanical stress may cause cracking in the Product.





Inductors for Power Lines (except for LQ Series) ①Caution/Notice

⚠ 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.

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the 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.

Notice

Precaution for Application

(1) The part must be pre-heated before soldering if reflow is applied.

The difference between pre-heat temperature and soldering temperature must be within 150°C.

- (2) If a soldering iron is applied, the soldering process must be completed within 3 seconds at a soldering temperature lower than 350°C.
 - The tip of the soldering iron must not touch the terminal electrode in this process.
- (3) Terminals should not be handled with fingers. This is to prevent deterioration in solderability.
- (4) Soldering using a soldering iron must be done only once for each part.
- (5) PPCB mount: this part must be handled with care to minimize any physical stress to the part at the board assembly process.

- (6) To minimize the influence to the part, the thickness of PCB, land dimension, and the amount of solder must be evaluated carefully by individual application.
- (7) If a washing process is applied, please make sure there is no problem with operating.
- (8) Products should not be dropped on the floor. This is to prevent damage to the products.
- (9) Although electrical performance is satisfactory, audible noises may be made if audio frequency ingredient is contained in current.
 - Before using, please make sure there aren't any problem with operating.

Handling

OStorage and Handling Requirements

(1) Storage period

Use the products within 6 months after delivered. Solderability should be checked if this period is exceeded.

- (2) Storage conditions
- Products should be stored in the warehouse on the following conditions.

Temperature: -10 to 40°C

Humidity: 15 to 85% relative humidity No rapid change on temperature and humidity

Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderability.

 Products should not be stored on bulk packaging condition to prevent the chipping of the core and the breaking of winding wire caused by the collision between the products.

- Products should be stored on the palette for the prevention of the influence from humidity, dust and so
- Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.
- (3) Handling Condition

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock

OResin coating

The inductance value may change and/or it may affect on the product's performance due to high cure-stress of resin to be used for coating / molding products. So please pay your careful attention when you select resin. In prior to use, please make the reliability evaluation with the product mounted in your application set.

Continued on the following page. 🖊

Inductors for Power Lines (except for LQ Series) ①Caution/Notice

Continued from the preceding page.

OMetal alloy inductor product*

Metal alloy inductor product* employs a core with low insulation resistance, pay strict attention when use it

- a) Do not make any through holes and copper pattern under the coil. except a copper pattern to the
- b) Design/mount any components not to contact this product.

Metal alloy inductor product*... DFE201612P_D, DFE252012P_D, DFEG7030D, DFEH7030D, DFEG10040D, DFEH10040D, DFEG12060D, DFEH12060D

OTemperature Rise

Temperature rise of power choke coil depends on the installation condition in end products.

It shall be confirmed in the actual end product that temperature rise of power choke coil is in the limit specified temperature class



Inductors for Power Lines Soldering and Mounting

1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductors (chip coils) electrode.

Inductors (chip coils) electrode.		Land Pattern + So	older Resist 🔲 I	and Pattern	Solder Resist (in mm)			
Series		Standard Land Dimens	sions		(1111111)			
LQM18P		Part Number	a	b	С			
LQM21P		LQM18P	0.7	1.8-2.0	0.7			
LQM2MP LQM2HP	† 	LQM21P	1.2	3.0-4.0	1.0			
LQH2MP	o	LQM2MP	0.8	2.4	1.8			
LQH31H		LQM2HP	1.6	3.0	1.5			
LQH32P	a b	LQH2MP	0.8	2.6	1.0			
LQH44P_GR LQH5BP	D	LQH31H	1.0	4.5	1.5			
241321		LQH32P	1.3	3.8	2.0			
		LQH44P_GR	1.5	4.4	2.7			
		LQH5BP	1.8	5.5	4.1			
LQH2HP	LQH2HP_DR	LQH2ł	HP_GR/JR	0.25				
LQH32C	For Reflow		For Flow (LQH32	2C_23 only)				
LQH32D	5.5 0 0 1.0 1.3 1.0	0.1.0	5.5)				
	*Applicable to flow soldering (LQH	132C_23 only)						
LQH3NP	1.4							
LQH43P	4.5 0.3 1.2 1.5 1.5 1.5 7.5	7.8 7.8 7.8 7.8						
DFE252012P_D	1.2 2.8							
DFEG7030D DFEH7030D	3.7 7.5	3.5						
DFEG10040D DFEH10040D	5.9	. — — — — — — — — — — — — — — — — — — —						

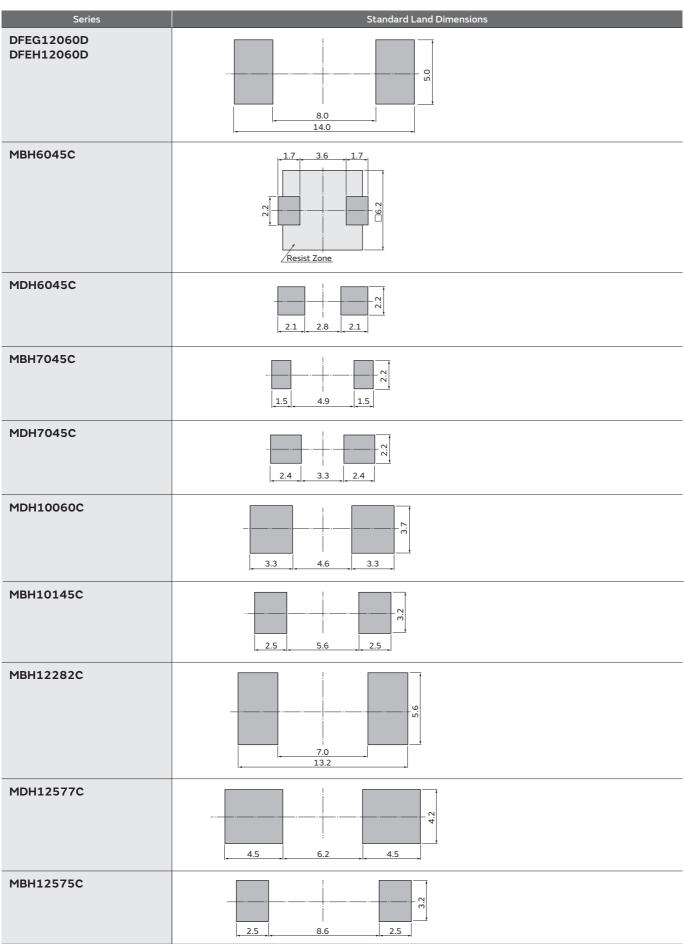
 $Attention \ should \ be \ paid \ to \ potential \ magnetic \ coupling \ effects \ when \ using \ the \ Inductors \ (coils) \ as \ a \ resonator.$

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Inductors for Power Lines Soldering and Mounting

Continued from the preceding page.



RF Inductors

Inductors for Power Lines Soldering and Mounting

Continued from the preceding page.

2. Standard Soldering Conditions

(1) Soldering method

Chip Inductors (Chip coils) can be flow or reflow soldered.

Please contact Murata regarding other soldering

As for LQM18P/ LQH2HP/2MP/32D/3NP/32P/43P/ 44P/5BP series, please use reflow soldering.

Solder: Use Sn-3.0Ag-0.5Cu solder.

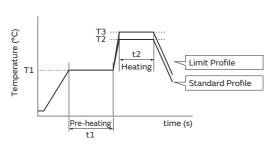
Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine content exceeding 0.2wt%).

Do not use water-soluble flux.

For additional mounting methods, please contact Murata.

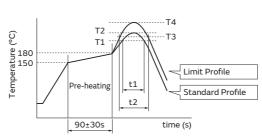
(2) Soldering profile

•Flow Soldering profile (Sn-3.0Ag-0.5Cu solder)



	Pre-heating		Standard Profile			Limit Profile		
Series			Heating		Cycle	Heating		Cycle
	Temp. (T1)	Time. (t1)	Temp. (T2)	Time. (t2)	of flow	Temp. (T3)	Time. (t2)	of flow
LQM21P/2MP/2HP	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	2 times max.
LQH32C	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	1 time

Reflow Soldering profile (LQ Series) (Sn-3.0Ag-0.5Cu solder)



	s				Limit Profile				
Series	Heating		Peak Cycle		Heating		Peak	Cycle	
	Temp. (T1) Time. (t1) (T2) of reflow	of reflow	Temp. (T3)	Time. (t2)	temperature (T4)	of reflow			
LQM18P/21P/2MP/2HP LQH2HP/2MP LQH32D LQH3NP/32P/43P/44P/5BP	220°C	30 to 60s	245±3°C	2 times max.	230°C	60s max.	260°C/10s	2 times max.	
LQH32C	220°C	30 to 60s	245±3°C	2 times max.	230°C	60s max.	260°C/10s	1 time	

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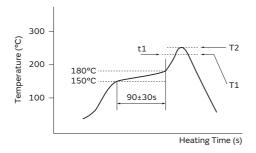
Inductors for General Circuits

Apr. 27,2018

Inductors for Power Lines Soldering and Mounting

Continued from the preceding page. \searrow

Reflow Soldering profile (except for LQ Series) (Sn-3.0Ag-0.5Cu solder)



Series	Hea	ting	Peak Temperature	Cycle
Series	Temp. (T1)	Time (t1)	(T2)	of Flow
DFE252012P_D MBH6045C MDH6045C MBH7045C MDH7045C MDH10060C MBH10145C MBH12282C MDH12577C MBH12575C	230°C	20 to 40s	250+5/-0°C	2 times max.
DFEG7030D DFEH7030D DFEG10040D DFEH10040D DFEG12060D DFEH12060D	230°C	20 to 40s	255+5/-0°C	2 times max.

- *Reflow Times: 2 times max
- *We recommend an infrared ray as the heat source of the reflow
- However halogen lamp should not be used; the side heat would be beyond the range of resistance heat, so we do not recommend it.

(3) Reworking with Soldering Iron

Preheating at 150°C for 1 minute is required. Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the products due to the thermal shock.

Soldering iron power output: 80W max.

Temperature of soldering iron tip

: 350°C (except for LQH5BP)

: 380°C (LQH5BP only)

Diameter of soldering iron end: 3.0mm max.

Soldering time: within 3 s

Please keep the fix time with the soldering iron within 2 times.

(except for LQH2HP_GR, LQH2MP)

Please keep the fix time with the soldering iron within only once. (LQH2HP_GR, LQH2MP only)

3. Mounting Instructions

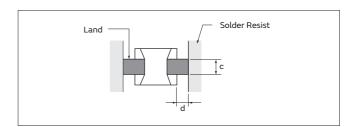
(1) Land Pattern Dimensions

Large lands reduce Q of the mounted chip. Also, large protruding land areas (bordered by lines having dimensions 'c' and 'd' shown) cause floating and electrode leaching.

(2) Land Pattern Designing (LQH series)

Please follow the recommended patterns.

Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result in "position shift" in the soldering process.



Continued on the following page. 7

Inductors for Power Lines Soldering and Mounting

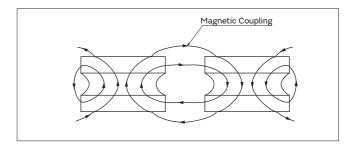
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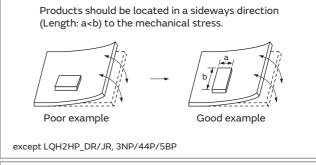
(3) Magnetic Coupling

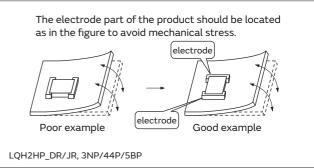
Since some chip inductors (chip coils) are constructed like an open magnetic circuit, narrow spacing between inductors (coils) may cause magnetic coupling. LQM and LQH_P series have a magnetically shielded structure. The structure makes their coupling coefficient smaller than that of conventional chip inductors (chip coils).

(4) PCB Warping

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







(5) Amount of Solder Paste

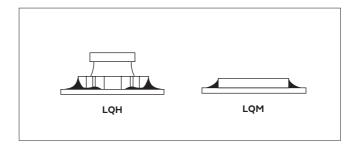
Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that solder is applied.

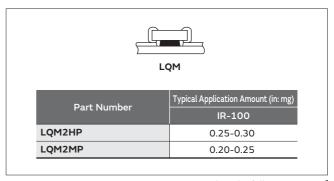
Guideline of solder paste thickness

- \cdot LQM, LQH2HP/2MP/3NP/32P/43P/44P/5BP: 100 to 150 μm
- · LQH31H/32C/32D, LQH43N: 200 to 300µm

(6) Amount of Adhesive

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. Apply the adhesive in accordance with the conditions shown in the chart.





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Inductors for Power Lines Soldering and Mounting

Continued from the preceding page.

4. Cleaning

The following conditions should be observed when cleaning chip inductors (chip coils):

- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic

Output: 20W/l max. Duration: 5 minutes max. Frequency: 28 to 40kHz

Care should be taken not to cause resonance of the PCB and mounted products.

(3) Cleaning agent

The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.

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

(4) Ensure that flux residue is completely removed.

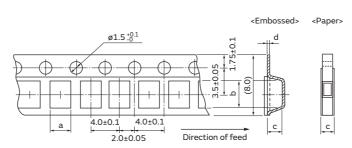
Component should be thoroughly dried after aqueous agents have been removed with deionized water.

For additional cleaning methods, please contact Murata.



Inductors for Power Lines Packaging

Minimum Quantity and 8mm Width Taping Dimensions (1)



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

Paper Tape

Part Number	Dime	nsions	Total Thickness of Tape	Packaging Code (Minimum Qty. [pcs.])		
Part Number	a	b	С	ø180mm reel	ø330mm reel	Bulk
LQM18P_CH	1.1	1.9	0.95 max.	D (4000)	-	B (1000)
LQM18P_DH	1.05	1.85	1.05 max.	D (4000)	-	B (1000)
LQM18P_FH	1.05	1.85	1.15 max.	D (4000)	-	B (1000)
LQM21P_C0	1.45	2.25	0.8 max.	D (4000)	-	B (1000)
LQM21P_G	1.45	2.25	1.1 max.	D (4000)	-	B (1000)

Embossed Tape

Dart March an	Dimensions (c: Depth of Cavity)				Packaging Code (Minimum Qty. [pcs.])		
Part Number	a	b	С	d	ø180mm reel	ø330mm reel	Bulk
LQH2HP_DR	2.3	2.8	0.7	0.25	L (4000)	-	-
LQH2HP_GR	2.3	2.8	1.1	0.25	L (3000)	-	-
LQH2HP_JR	2.3	2.8	1.3	0.25	L (2000)	-	-
LQH2MP_GR	1.9	2.3	1.05	0.25	L (3000)	-	-
LQH32C_33/23	2.9	3.6	2.1	0.2	L (2000)	K (7500)	B (500)
LQH32C_53	2.9	3.6	1.7	0.2	L (2000)	K (7500)	B (500)
LQH32D_23	2.9	3.6	2.1	0.2	L (2000)	K (7500)	-
LQH32D_53	2.9	3.6	1.7	0.2	L (2000)	K (7500)	-
LQH32P	2.9	3.6	1.7	0.2	L (2000)	K (7500)	-
LQM2HP_E0	2.3	2.8	0.9	0.25	L (3000)	-	B (1000)
LQM2HP_G	2.3	2.8	1.1	0.25	L (3000)	-	B (1000)
LQM2HP_J0	2.25	2.75	1.3	0.25	L (3000)	-	B (1000)
LQM2MP_G0	1.85	2.25	1.1	0.25	L (3000)	-	B (1000)
LQM2MP_JH	1.9	2.4	1.3	0.25	L (3000)	-	B (1000)

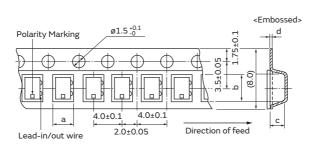
(in mm)

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Inductors for Power Lines Packaging

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Minimum Quantity and 8mm Width Taping Dimensions (2)



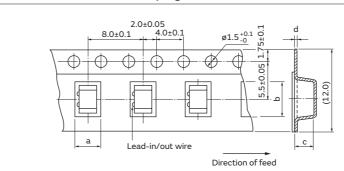
Dimension of the cavity of embossed tape is measured at the bottom side.

Embossed Tape

Part Number	Dir	mensions (c: I	Depth of Cavi	Packaging Code (Minimum Qty. [pcs.])			
Part Number	a	b	С	d	ø180mm reel	ø330mm reel	Bulk
LQH3NP_GR	3.3	3.3	1.1	0.3	L (3000)	-	-
LQH3NP_JR/ME	3.3	3.3	1.6	0.2	L (2000)	-	-

(in mm)

Minimum Quantity and 12mm Width Embossed Taping Dimensions



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

Embossed Tape

Dank Name bear	Dimensions (c: Depth of Cavity)				Packaging Code (Minimum Qty. [pcs.])			
Part Number	a	b	С	d	ø180mm reel	ø330mm reel	Bulk	
LQH43P	3.6	4.9	2.7	0.3	L (500)	K (2500)	-	
LQH44P_GR	4.3	4.3	1.4	0.3	L (1000)	K (4500)	-	
LQH5BP	5.3	5.3	2.4	0.3	L (500)	K (3000)	-	

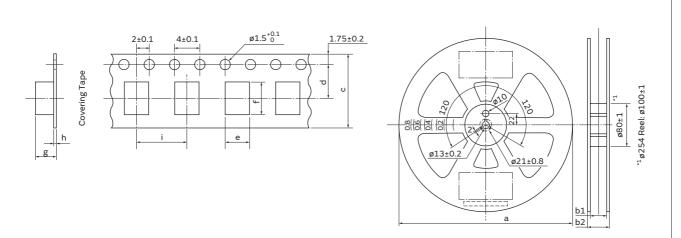
(in mm)

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Inductors for Power Lines Packaging

Continued from the preceding page.

Tape and Reel Dimensions



(in mm)

Surface Mounting Type, Reel/Tape List

	R	eel Size (mr	n)			Ta	ipe Size (m	m)			Q'ty
Series	a	b1	b2	С	d	е	f	g	h	i	1 Reel
DFE252012P_D	ø180	9.0±0.3	11.4±1	8.0±0.2	3.5±0.05	2.20±0.1	2.75±0.1	1.3±0.1	0.25±0.05	4.0±0.1	3000
DFEG7030D	ø330	17.5±0.5	21.5±1	16.0±0.3	7.5±0.1	7.1±0.1	7.8±0.1	3.3±0.1	0.4±0.05	12.0±0.1	1000
DFEH7030D	ø330	17.5±0.5	21.5±1	16.0±0.3	7.5±0.1	7.1±0.1	7.8±0.1	3.3±0.1	0.4±0.05	12.0±0.1	1000
DFEG10040D	ø330	25.5±0.5	29.5±1	24.0±0.3	11.5±0.1	10.5±0.1	12.1±0.1	4.3±0.1	0.4±0.05	16.0±0.1	500
DFEH10040D	ø330	25.5±0.5	29.5±1	24.0±0.3	11.5±0.1	10.5±0.1	12.1±0.1	4.3±0.1	0.4±0.05	16.0±0.1	500
DFEG12060D	ø330	25.5±0.5	29.5±1	24.0±0.3	11.5±0.1	13.2±0.1	13.3±0.1	6.4±0.1	0.4±0.05	16.0±0.1	500
DFEH12060D	ø330	25.5±0.5	29.5±1	24.0±0.3	11.5±0.1	13.2±0.1	13.3±0.1	6.4±0.1	0.4±0.05	16.0±0.1	500
MBH6045C	ø330	17.5±0.5	21.5±1	16.0±0.3	7.5±0.1	6.3±0.1	6.3±0.1	5.1±0.1	0.4±0.1	12.0±0.1	1000
MDH6045C	ø330	17.5±0.5	21.5±1	16.0±0.3	7.5±0.1	6.3±0.1	6.3±0.1	5.1±0.1	0.4±0.1	12.0±0.1	1000
MBH7045C	ø330	17.5±0.5	21.5±1	16.0±0.3	7.5±0.1	7.3±0.1	7.3±0.1	4.9±0.1	0.4±0.05	12.0±0.1	1000
MDH7045C	ø330	17.5±0.5	21.5±1	16.0±0.3	7.5±0.1	7.7±0.1	7.4±0.1	5.3±0.1	0.4±0.1	12.0±0.1	1000
MDH10060C	ø330	25.5±0.5	29.5±1	24.0±0.1	11.5±0.1	10.5±0.1	10.4±0.1	6.4±0.1	0.5±0.1	16.0±0.1	500
MBH10145C	ø330	25.5±0.5	29.5±1	24.0±0.3	11.5±0.1	10.5±0.1	10.5±0.1	4.9±0.1	0.4±0.1	16.0±0.1	500
MBH12282C	ø330	25.5±0.5	29.5±1	24.0±0.3	11.5±0.1	12.6±0.1	12.6±0.1	8.6±0.1	0.5±0.1	16.0±0.1	300
MDH12577C	ø330	25.5±0.5	29.5±1	24.0±0.1	11.5±0.1	13.2±0.1	12.9±0.1	8.2±0.1	0.5±0.05	16.0±0.1	300
MBH12575C	ø330	25.5±0.5	29.5±1	24.0±0.3	11.5±0.1	12.9±0.1	12.9±0.1	8.0±0.1	0.5±0.1	16.0±0.1	300

Part Numbering

Inductors for General Circuits for Automotive

(Part Number) LQ H 43 N Z 4R7 M 0 3 L

1 Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

2Structure

Code	Structure
Н	Wire Wound Type (Ferrite Core)

3Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
32	3.2x2.5mm	1210
43	4.5x3.2mm	1812

Applications and Characteristics

Code	Applications and Characteristics
N	for Resonant Circuit

5Category

Code	Category				
н	Automotive	Powertrain/Safety			
Z	Automotive	Infotainment			

6Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (µH). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R". In this case, all figures are significant digits. If inductance is less than 0.1µH, the inductance code is expressed by a combination of two figures and the capital letter "N", and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH", and also expresses a decimal point. In this case, all figures are significant digits. For those products whose inductance values are specified using three designated digits, these values may be indicated using the closest two digits instead.

7 Inductance Tolerance

Code	Inductance Tolerance
J	±5%
K	±10%
М	±20%

8 Features

Code	Features
0/2	Standard Type

9 Electrode

Lead (Pb) Free

Code	Electrode
3	LF Solder

Packaging

Code	Packaging
K	Embossed Taping (ø330mm Reel)
L	Embossed Taping (ø180mm Reel)

Inductors for General Circuits

LQH32NZ_23/LQH32NH_23 Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity		
K	ø330mm Embossed Taping	7500		
L	ø180mm Embossed Taping	2000		

Rated Value (□: packaging code)

Part Number		Inductance O (min.)		Rated Current	Max. of DC Resistance*	DO Desistances	C D Et (min)	
Infotainment	Powertrain/Safety	mductance	Q (min.)	Rated Current	Max. of DC Resistance*	DC Resistance*	S.R.F* (min.)	
LQH32NZ1R0K23	_	1.0µH ±10%	20	445mA	0.5Ω	_	100MHz	
_	LQH32NH1R0M23□	1.0µH ±20%	25	780mA	_	0.06Ω±20%	100MHz	
_	LQH32NH1R2J23□	1.2µH ±5%	25	720mA	720mA — 0.07Ω±20%		90MHz	
LQH32NZ1R2K23□	_	1.2µH ±10%	20	425mA	0.6Ω	_	100MHz	
_	LQH32NH1R5J23□	1.5µH ±5%	25	675mA	_	0.08Ω±20%	85MHz	
LQH32NZ1R5K23□	_	1.5µH ±10%	20	400mA	0.6Ω	_	75MHz	
_	LQH32NH1R8J23□	1.8µH ±5%	25	635mA	_	0.09Ω±20%	80MHz	
LQH32NZ1R8K23□	_	1.8µH ±10%	20	390mA	0.7Ω	_	60MHz	
_	LQH32NH2R2J23□	2.2µH ±5%	25	610mA	_	0.097Ω±20%	75MHz	
LQH32NZ2R2K23□	_	2.2µH ±10%	20	370mA	0.8Ω	_	50MHz	
_	LQH32NH2R7J23□	2.7µH ±5%	25	495mA	_	0.15Ω±20%	70MHz	
LQH32NZ2R7K23□	_	2.7µH ±10%	20	320mA	0.9Ω	_	43MHz	
_	LQH32NH3R3J23□	3.3µH ±5%	25	425mA	_	0.20Ω±20%	65MHz	
LQH32NZ3R3K23	_	3.3µH ±10%	20	300mA	1.0Ω	_	38MHz	
_	LQH32NH3R9J23□	3.9µH ±5%	25	510mA	_	0.14Ω±20%	60MHz	
LQH32NZ3R9K23□	_	3.9µH ±10%	20	290mA	1.1Ω	_	35MHz	
_	LQH32NH4R7J23□	4.7µH ±5%	25	420mA —		0.21Ω±20%	55MHz	
LQH32NZ4R7K23□	_	4.7µH ±10%	20	270mA	1.2Ω	_	31MHz	
_	LQH32NH5R6J23□	5.6µH ±5%	25	335mA	_	0.32Ω±20%	50MHz	
LQH32NZ5R6K23□	_	5.6µH ±10%	20	250mA	1.3Ω	_	28MHz	
_	LQH32NH6R8J23□	6.8µH ±5%	25	315mA	_	0.36Ω±20%	45MHz	
LQH32NZ6R8K23□	_	6.8µH ±10%	20	240mA	1.5Ω	_	25MHz	
_	LQH32NH8R2J23□	8.2µH ±5%	25	300mA	_	0.40Ω±20%	40MHz	
LQH32NZ8R2K23□	_	8.2µH ±10%	20	225mA	1.6Ω	_	23MHz	
LQH32NZ100J23□	LQH32NH100J23□	10μH ±5%	35	190mA/325mA	1.8Ω	0.34Ω±20%	20MHz/35MHz	
LQH32NZ120J23□	LQH32NH120J23□	12µH ±5%	35	180mA/270mA	2.0Ω	0.50Ω±20%	18MHz/30MHz	
LQH32NZ150J23	LQH32NH150J23□	15µH ±5%	35	170mA/270mA	2.2Ω	0.50Ω±20%	16MHz/25MHz	

Operating temp.range (LQH32NZ_23 series): -40 to 105°C

Operating temp.range (LQH32NH_23 series): -40 to 125°C

Inductance Test Frequency: 1MHz (1.0 μH to 390 μH), 1kHz (470 μH to 560 μH)

Q Test Frequency: 1MHz (1.0 μ H to 82 μ H), 796kHz (100 μ H to 560 μ H)

*Max. of DC Resistance: LQH32NZ_23 series

*DC Resistance: LQH32NH_23 series

Class of Magnetic Shield: No Shield

Only for reflow soldering

*S.R.F: Self Resonant Frequency

When rated current is applied to the products, self-temperature rise shall be limited to 20°C max and inductance will be within ±10% of initial inductance value.



Part Number		Inductance O (min.)		Rated Current	Max. of DC Resistance*	202	CD Et (;)	
Infotainment	Powertrain/Safety	inductance	Q (min.)	Rated Current	Max. of DC Resistance [*]	DC Resistance*	S.R.F* (min.)	
LQH32NZ180J23	LQH32NH180J23	18µH ±5%	35	165mA/235mA	2.5Ω	0.64Ω±20%	15MHz/25MHz	
LQH32NZ220J23□	LQH32NH220J23	22μH ±5%	35	150mA/220mA	2.8Ω	0.74Ω±20%	14MHz/20MHz	
LQH32NZ270J23□	LQH32NH270J23	27μH ±5%	35	125mA/190mA	3.1Ω	1.00Ω±20%	13MHz/20MHz	
LQH32NZ330J23	LQH32NH330J23	33µH ±5%	40	115mA/175mA	3.5Ω	1.14Ω±20%	12MHz/20MHz	
LQH32NZ390J23	LQH32NH390J23	39µH ±5%	40	110mA/170mA	3.9Ω	1.27Ω±20%	11MHz/16MHz	
LQH32NZ470J23□	LQH32NH470J23□	47μH ±5%	40	100mA/155mA	4.3Ω	1.46Ω±20%	11MHz/15MHz	
LQH32NZ560J23	LQH32NH560J23□	56µH ±5%	40	85mA/130mA	4.9Ω	2.00Ω±20%	10MHz/13MHz	
LQH32NZ680J23□	LQH32NH680J23□	68μH ±5%	40	80mA/125mA	5.5Ω	2.25Ω±20%	9.0MHz/12MHz	
LQH32NZ820J23□	LQH32NH820J23□	82µH ±5%	40	70mA/100mA	6.2Ω	3.25Ω±20%	8.5MHz/11MHz	
LQH32NZ101J23□	LQH32NH101J23□	100μH ±5%	40	80mA/95mA	7.0Ω	3.65Ω±20%	8.0MHz/10MHz	
LQH32NZ121J23□	LQH32NH121J23□	3 □ 120µH ±5% 40		75mA/85mA	8.0Ω	4.20Ω±20%	7.5MHz/10MHz	
LQH32NZ151J23□	LQH32NH151J23	150µH ±5%	40	70mA/80mA	9.3Ω	4.85Ω±20%	7.0MHz/8.0MHz	
LQH32NZ181J23□	LQH32NH181J23□	180µH ±5%	40	65mA/60mA	10.2Ω	7.60Ω±20%	6.0MHz	
LQH32NZ221J23□	LQH32NH221J23□	220μH ±5%	40	65mA/60mA	11.8Ω	8.45Ω±20%	5.5MHz	
LQH32NZ271J23□	LQH32NH271J23	270μH ±5%	40/50	65mA/55mA	12.5Ω	9.70Ω±20%	5.0MHz	
LQH32NZ331J23	LQH32NH331J23	330µH ±5%	40/50	65mA/50mA	13.0Ω	11.0Ω±20%	5.0MHz	
LQH32NZ391J23	LQH32NH391J23	390µH ±5%	50	50mA/45mA	22.0Ω	12.4Ω±20%	5.0MHz	
LQH32NZ471J23	LQH32NH471J23	470µH ±5%	50	45mA/40mA	25.0Ω	14.1Ω±20%	5.0MHz	
_	LQH32NH561J23□	560µH ±5%	50	40mA	_	14.6Ω±20%	4.0MHz	

Operating temp.range (LQH32NZ_23 series): -40 to 105°C

Operating temp.range (LQH32NH_23 series): -40 to 125°C

Inductance Test Frequency: 1MHz (1.0 μ H to 390 μ H), 1kHz (470 μ H to 560 μ H)

Q Test Frequency: 1MHz (1.0 μ H to 82 μ H), 796kHz (100 μ H to 560 μ H)

*Max. of DC Resistance: LQH32NZ_23 series

*DC Resistance: LQH32NH_23 series

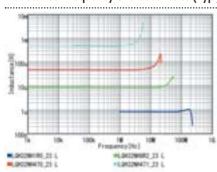
Class of Magnetic Shield: No Shield

Only for reflow soldering

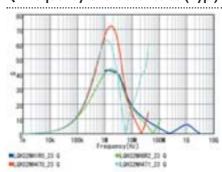
*S.R.F: Self Resonant Frequency

When rated current is applied to the products, self-temperature rise shall be limited to 20° C max and inductance will be within $\pm 10\%$ of initial inductance value.

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)

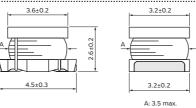


Inductors for General Circuits

LQH43NZ_03 Series 1812 (4532) inch (mm)

(in mm)

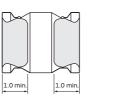
Appearance/Dimensions











Rated Value (□: packaging code)

Part Number			Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQH43NZ1R0M03	_	1.0µH ±20%	1MHz	20	1MHz	500mA	0.20Ω	120MHz
LQH43NZ1R2M03□	_	1.2µH ±20%	1MHz	20	1MHz	500mA	0.20Ω	100MHz
LQH43NZ1R5M03□	_	1.5µH ±20%	1MHz	20	1MHz	500mA	0.30Ω	85MHz
LQH43NZ1R8M03□	_	1.8µH ±20%	1MHz	20	1MHz	500mA	0.30Ω	75MHz
LQH43NZ2R2M03□	_	2.2µH ±20%	1MHz	20	1MHz	500mA	0.30Ω	62MHz
LQH43NZ2R7M03□	_	2.7µH ±20%	1MHz	20	1MHz	500mA	0.32Ω	53MHz
LQH43NZ3R3M03	_	3.3µH ±20%	1MHz	20	1MHz	500mA	0.35Ω	47MHz
LQH43NZ3R9M03	_	3.9µH ±20%	1MHz	20	1MHz	500mA	0.38Ω	41MHz
LQH43NZ4R7K03□	_	4.7µH ±10%	1MHz	30	1MHz	500mA	0.40Ω	38MHz
LQH43NZ4R7M03□	_	4.7µH ±20%	1MHz	30	1MHz	500mA	0.40Ω	38MHz
LQH43NZ5R6K03□	_	5.6µH ±10%	1MHz	30	1MHz	500mA	0.47Ω	33MHz
LQH43NZ5R6M03□	_	5.6µH ±20%	1MHz	30	1MHz	500mA	0.47Ω	33MHz
LQH43NZ6R8K03□	_	6.8µH ±10%	1MHz	30	1MHz	450mA	0.50Ω	31MHz
LQH43NZ6R8M03	_	6.8µH ±20%	1MHz	30	1MHz	450mA	0.50Ω	31MHz
LQH43NZ8R2K03□	_	8.2µH ±10%	1MHz	30	1MHz	450mA	0.56Ω	27MHz
LQH43NZ8R2M03□	_	8.2µH ±20%	1MHz	30	1MHz	450mA	0.56Ω	27MHz
LQH43NZ100J03□	_	10μH ±5%	1MHz	35	1MHz	400mA	0.56Ω	23MHz
LQH43NZ100K03□	_	10µH ±10%	1MHz	35	1MHz	400mA	0.56Ω	23MHz
LQH43NZ120J03□	_	12µH ±5%	1MHz	35	1MHz	380mA	0.62Ω	21MHz
LQH43NZ120K03□	_	12µH ±10%	1MHz	35	1MHz	380mA	0.62Ω	21MHz
LQH43NZ150J03□	_	15µH ±5%	1MHz	35	1MHz	360mA	0.73Ω	19MHz
LQH43NZ150K03□	_	15µH ±10%	1MHz	35	1MHz	360mA	0.73Ω	19MHz
LQH43NZ180J03□	_	18µH ±5%	1MHz	35	1MHz	340mA	0.82Ω	17MHz
LQH43NZ180K03□	_	18μH ±10%	1MHz	35	1MHz	340mA	0.82Ω	17MHz
LQH43NZ220J03□	_	22μH ±5%	1MHz	35	1MHz	320mA	0.94Ω	15MHz
LQH43NZ220K03□	_	22µH ±10%	1MHz	35	1MHz	320mA	0.94Ω	15MHz
LQH43NZ270J03□	_	27µH ±5%	1MHz	35	1MHz	300mA	1.1Ω	14MHz
LQH43NZ270K03□	_	27µH ±10%	1MHz	35	1MHz	300mA	1.1Ω	14MHz
LQH43NZ330J03□	_	33µH ±5%	1MHz	35	1MHz	270mA	1.2Ω	12MHz
LQH43NZ330K03	_	33µH ±10%	1MHz	35	1MHz	270mA	1.2Ω	12MHz
LQH43NZ390J03□	_	39µH ±5%	1MHz	35	1MHz	240mA	1.4Ω	11MHz

Operating temp.range: -40 to 105°C

Class of Magnetic Shield: No Shield

Only for reflow soldering

*S.R.F: Self Resonant Frequency

When rated current is applied to the products, self-temperature rise shall be limited to 20°C max and inductance will be within ±10% of initial inductance value.



Part Number			Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQH43NZ390K03	_	39µH ±10%	1MHz	35	1MHz	240mA	1.4Ω	11MHz
LQH43NZ470J03□	_	47µH ±5%	1MHz	35	1MHz	220mA	1.5Ω	10MHz
LQH43NZ470K03	_	47µH ±10%	1MHz	35	1MHz	220mA	1.5Ω	10MHz
LQH43NZ560J03□	_	56µH ±5%	1MHz	35	1MHz	200mA	1.7Ω	9.3MHz
LQH43NZ560K03	_	56µH ±10%	1MHz	35	1MHz	200mA	1.7Ω	9.3MHz
LQH43NZ680J03□	_	68µH ±5%	1MHz	35	1MHz	180mA	1.9Ω	8.4MHz
LQH43NZ680K03□	_	68µH ±10%	1MHz	35	1MHz	180mA	1.9Ω	8.4MHz
LQH43NZ820J03□	_	82µH ±5%	1MHz	35	1MHz	170mA	2.2Ω	7.5MHz
LQH43NZ820K03□	_	82µH ±10%	1MHz	35	1MHz	170mA	2.2Ω	7.5MHz
LQH43NZ101J03	_	100µH ±5%	1MHz	40	796kHz	160mA	2.5Ω	6.8MHz
LQH43NZ101K03	_	100µH ±10%	1MHz	40	796kHz	160mA	2.5Ω	6.8MHz
LQH43NZ121J03	_	120µH ±5%	1MHz	40	796kHz	150mA	3.0Ω	6.2MHz
LQH43NZ121K03	_	120µH ±10%	1MHz	40	796kHz	150mA	3.0Ω	6.2MHz
LQH43NZ151J03	_	150µH ±5%	1MHz	40	796kHz	130mA	3.7Ω	5.5MHz
LQH43NZ151K03	_	150µH ±10%	1MHz	40	796kHz	130mA	3.7Ω	5.5MHz
LQH43NZ181J03	_	180µH ±5%	1MHz	40	796kHz	120mA	4.5Ω	5.0MHz
LQH43NZ181K03 \(\text{LQH43NZ221J03} \(\text{LQH43NZ221J03} \)	_	180μH ±10% 220μH ±5%	1MHz 1MHz	40	796kHz 796kHz	120mA 110mA	4.5Ω 5.4Ω	5.0MHz 4.5MHz
LQH43NZ221K03		220μH ±3 % 220μH ±10%	1MHz	40	796kHz	110mA	5.4Ω	4.5MHz
LQH43NZ271J03	_	270μH ±5%	1MHz	40	796kHz	100mA	6.8Ω	4.0MHz
LQH43NZ271K03	_	270µH ±10%	1MHz	40	796kHz	100mA	6.8Ω	4.0MHz
LQH43NZ331J03□	_	330µH ±5%	1MHz	40	796kHz	95mA	8.2Ω	3.6MHz
LQH43NZ331K03	_	330µH ±10%	1MHz	40	796kHz	95mA	8.2Ω	3.6MHz
LQH43NZ391J03□	_	390µH ±5%	1MHz	40	796kHz	90mA	9.7Ω	3.3MHz
LQH43NZ391K03	_	390µH ±10%	1MHz	40	796kHz	90mA	9.7Ω	3.3MHz
LQH43NZ471J03	_	470µH ±5%	1kHz	40	796kHz	80mA	11.8Ω	3.0MHz
LQH43NZ471K03	_	470µH ±10%	1kHz	40	796kHz	80mA	11.8Ω	3.0MHz
LQH43NZ561J03□	_	560µH ±5%	1kHz	40	796kHz	70mA	14.5Ω	2.7MHz
LQH43NZ561K03□	_	560µH ±10%	1kHz	40	796kHz	70mA	14.5Ω	2.7MHz
LQH43NZ681J03□	_	680µH ±5%	1kHz	40	796kHz	65mA	17.0Ω	2.5MHz
LQH43NZ681K03	_	680µH ±10%	1kHz	40	796kHz	65mA	17.0Ω	2.5MHz
LQH43NZ821J03	_	820µH ±5%	1kHz	40	796kHz	60mA	20.5Ω	2.2MHz
LQH43NZ821K03	_	820µH ±10%	1kHz	40	796kHz	60mA	20.5Ω	2.2MHz
LQH43NZ102J03	_	1000µH ±5%	1kHz	40	252kHz	50mA	25.0Ω	2.0MHz
LQH43NZ102K03	_	1000µH ±10%	1kHz	40	252kHz	50mA	25.0Ω	2.0MHz
LQH43NZ122J03□ LQH43NZ122K03□	_	1200μH ±5% 1200μH ±10%	1kHz 1kHz	40	252kHz 252kHz	45mA 45mA	30.0Ω	1.8MHz 1.8MHz
LQH43NZ152J03	_	1500μH ±5%	1kHz	40	252kHz	40mA	37.0Ω	1.6MHz
LQH43NZ152K03	_	1500µH ±10%	1kHz	40	252kHz	40mA	37.0Ω	1.6MHz
LQH43NZ182J03	_	1800µH ±5%	1kHz	40	252kHz	35mA	45.0Ω	1.5MHz
LQH43NZ182K03	_	1800µH ±10%	1kHz	40	252kHz	35mA	45.0Ω	1.5MHz
LQH43NZ222J03□	_	2200µH ±5%	1kHz	40	252kHz	30mA	50.0Ω	1.3MHz
LQH43NZ222K03□	_	2200µH ±10%	1kHz	40	252kHz	30mA	50.0Ω	1.3MHz
LQH43NZ242J03	_	2400µH ±5%	1kHz	40	252kHz	25mA	53.0Ω	1.2MHz
LQH43NZ242K03	_	2400µH ±10%	1kHz	40	252kHz	25mA	53.0Ω	1.2MHz

Operating temp.range: -40 to 105°C

Class of Magnetic Shield: No Shield

Only for reflow soldering

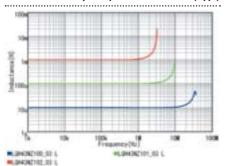
*S.R.F: Self Resonant Frequency

When rated current is applied to the products, self-temperature rise shall be limited to 20° C max and inductance will be within $\pm 10^{\circ}$ 0 of initial inductance value.

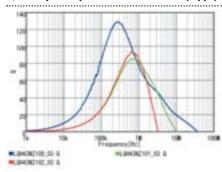
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Inductance-Frequency Characteristics (Typ.)

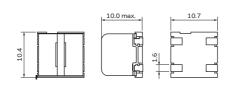


Q-Frequency Characteristics (Typ.)



HEAWS Series 4241 (107104) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	250

(in mm)

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current (Isat)*	Poted Current (Items)*	Max. of DC Resistance	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	Max. Of DC Resistance	
1211EA-1004□	_	10μH ±20%	0.1MHz	5000mA	2800mA	0.025Ω	

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 85°C

Only for reflow soldering

*Isat: Rated Current based on Inductance change

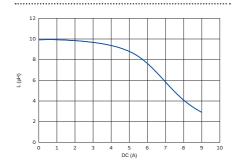
*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 25%. (The ambient reference temperature is 20°C)

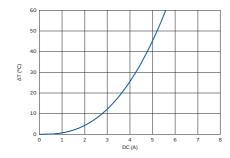
 $Rated \ current \ (Itemp) \ is \ specified \ when \ temperature \ of \ inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ temperatur$

Class of Magnetic Shield: Ferrite Core

Inductance-Current Characteristics (Typ.)

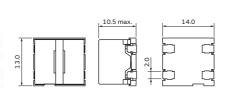


Temperature Rise Characteristics (Typ.)



HEAW Series 5551 (140130) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	200

(in mm)

Rated Value (□: packaging code)

Part Number		Inductance F		Rated Current (Isat)*	Pated Current (Items)*	Max. of DC Resistance	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current (Isat)	Rated Current (Itemp)	Max. of DC Resistance	
1155EA-0001□	_	10μH ±20%	0.1MHz	7200mA	3000mA	0.025Ω	

Operating temp.range (Self-temp.rise included): -40 to 125°C

Operating temp.range (Self-temp.rise not included): -40 to 85°C

Only for reflow soldering

*Isat: Rated Current based on Inductance change

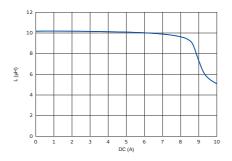
*Itemp: Rated Current based on Temperature rise

Rated current (Isat) is specified when the decrease of the initial inductance value at 25%. (The ambient reference temperature is 20°C)

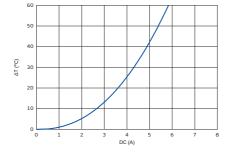
 $Rated \ current \ (Itemp) \ is \ specified \ when \ temperature \ of inductor \ the \ is \ raised \ 40^{\circ}C \ by \ DC \ current. \ (The \ ambient \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \ is \ 20^{\circ}C) \ and \ reference \ temperature \$

Class of Magnetic Shield: Ferrite Core

Inductance-Current Characteristics (Typ.)

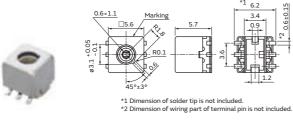


Temperature Rise Characteristics (Typ.)



Surface mount variable coil 5CCEG Series 2222 (5656) inch (mm)

Appearance/Dimensions





General Tolerance: ±0 in n

Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	750

Features

- 6.5×5.9×6.0(H) mm MAX.
- Supported inductance range: 0.05 to 2.7µH
- High reliability that conforms to automotive standards
- Operating temperature range: -40°C to +85°C

Applications

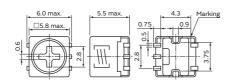
• Ideal for use as RF matching transformers for car tuners

Rated Value (□: packaging code)

Winding Connection	Part Nu	mber	Test Frequency	Resonance Capacitor Range
(Bottom View)	Infotainment	Powertrain/Safety	(MHz)	(pF)
S	#A1313AN-0001GGH	-	100	11.4 +3/-3%
S (3-7-7-4)	#A1313AN-0002GRG	-	100	11.4 +5/-2%
0 0 0 0 s	#A1313AN-0003GRG	-	100	11.4 +2/-4%
S 3 4 2 6 5 0 S	#A1313AN-0004GGH	-	100	11.7 +3/-3%

Surface mount variable coil FSDVA Series 2323 (5858) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
=P3	ø330mm Embossed Taping	1000

General Tolerance: in

Features

- 5.8×5.8×5.5(H) mm MAX.
- Supported inductance range: 0.1 to 52mH (1 to 7 mH for corner sensor applications)
- Resistant to mechanical stress
- Operating temperature range
 Up to 20 mH (-40°C to +105°C)
 20 mH or more (-40°C to +85°C)
- Various reliability conditions guaranteed for 1,000 hours (evaluation performed up to 3,000 hours)
- Lead coplanarity guaranteed within 0.1 mm

Rated Value (□: packaging code)

Winding Connection	Part Nu	ımber	Test Frequency	Inductance Range	Unloaded Q	
(Bottom View)	Infotainment	Powertrain/Safety	(kHz)	(mH)	Ontoaded Q	
S 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N1342BCA-0004UG	-	252	4.4 ±3%	25 min	
S O O O O O O O O O O O O O O O O O O O	N1342DEA-0008BQE	_	252	2.5 ±5%	25 min	

Winding Connection	Part Nu	ımber	Test Frequency	Inductance Tolerance	Unloaded Q	
(Bottom View)	Infotainment	Powertrain/Safety	(kHz)	(mH)		
(3, w/4) s (2) (6)	N1342AAA-0001Z	-	79.6	52 ±7%	10 min	

Inductors for General Circuits (LQ Series) ①Caution/Notice



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.

For the usage of powertrain and safety be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the 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.

Notice

Storage and Operating Condition

<Operating Environment>

Do not use products in chemical atmosphere such as chlorine gas, acid or sulfide gas.

- <Storage Requirements>
- 1. Storage Period

Products should be used within 12 months. Check solderability if this period is exceeded.

- 2. Storage Conditions
 - (1) Store products in a warehouse in compliance with the following conditions:

Temperature: -10 to +40 degrees C. Humidity: 15 to 85% (relative humidity) Do not subject products to rapid changes in temperature and humidity.

Do not store them in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas. This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

- (2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.
- (3) Store products on pallets to protect from humidity, dust, etc.
- (4) Avoid heat shock, vibration, direct sunlight, etc.

Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

LQH series

- To prevent breaking the wire, avoid touching with sharp material, such as tweezers or the bristles of a cleaning brush, to the wire wound portion of this product.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.
- <Transportation>

Do not apply excessive vibration or mechanical shock to products.

<Resin Coating>

When coating products with resin, the relatively high resin curing stress may change inductance values. For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

(LQH series)

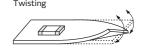
An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

<Handling of a Substrate>

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate.

Excessive mechanical stress may cause cracking in the Product.

Bending



Inductors for General (except for LQ Series) ①Caution/Notice

● () 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.

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the 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.

Notice

Precaution for Application

- (1) The part must be pre-heated before soldering if reflow is applied.
 - The difference between pre-heat temperature and soldering temperature must be within 150°C.
- (2) If a soldering iron is applied, the soldering process must be completed within 3 seconds at a soldering temperature lower than 350°C.
 - The tip of the soldering iron must not touch the terminal electrode in this process.
- (3) Terminals should not be handled with fingers. This is to prevent deterioration in solderability.
- (4) Soldering using a soldering iron must be done only once for each part.
- (5) PCB mount: this part must be handled with care to minimize any physical stress to the part at the board assembly process.

- (6) To minimize the influence to the part, the thickness of PCB, land dimension, and the amount of solder must be evaluated carefully by individual application.
- (7) If a washing process is applied, please make sure there is no problem with operating.
- (8) Products should not be dropped on the floor. This is to prevent damage to the products.
- (9) Although electrical performance is satisfactory, audible noises may be made if audio frequency ingredient is contained in current.
 - Before using, please make sure there aren't any problem with operating.

Handling

OStorage and Handling Requirements

(1) Storage period

Use the products within 6 months after delivered. Solderability should be checked if this period is exceeded

- (2) Storage conditions
- Products should be stored in the warehouse on the following conditions.

Temperature: -10 to 40°C

Humidity: 15 to 85% relative humidity No rapid change on temperature and humidity

Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderability.

- Products should not be stored on bulk packaging condition to prevent the chipping of the core and the breaking of winding wire caused by the collision between the products.
- Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.
- Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.
- (3) Handling Condition

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.

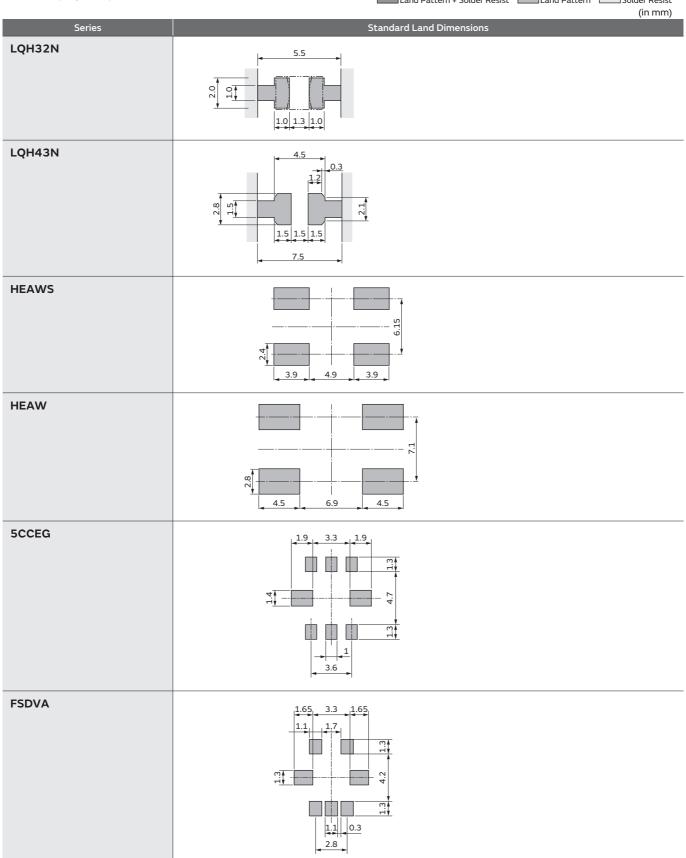


Inductors for General Circuits Soldering and Mounting

1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductors (chip coils) electrode.

Land Pattern + Solder Resist Land Pattern Land Pattern Solder Resist



 $Attention \ should \ be \ paid \ to \ potential \ magnetic \ coupling \ effects \ when \ using \ the \ Inductors \ (coils) \ as \ a \ resonator.$

Continued on the following page. **7**



Inductors for General Circuits Soldering and Mounting

Continued from the preceding page.

2. Standard Soldering Conditions

(1) Soldering method

Chip Inductors (Chip coils) can be reflow soldered.

Please contact Murata regarding other soldering methods.

Solder: Use Sn-3.0Ag-0.5Cu solder.

Flux: Use rosin-based flux, but not strongly acidic flux

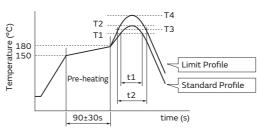
(with chlorine content exceeding 0.2wt%).

Do not use water-soluble flux.

For additional mounting methods, please contact Murata.

(2) Soldering profile

Reflow Soldering profile (LQ Series) (Sn-3.0Ag-0.5Cu solder)

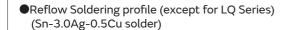


	Standard Profile				Limit Profile			
Series	Heating		Peak temperature Cycle		Heating		Peak temperature	Cycle
	Temp. (T1)		(T2)	of reflow	Temp. (T3)	Time. (t2)	(T4)	of reflow
LQH32N/43N	220°C	30 to 60s	245±3°C	2 times max.	230°C	60s max.	260°C/10s	2 times max.

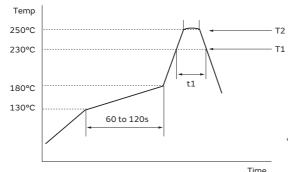
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Inductors for General Circuits Soldering and Mounting

Continued from the preceding page.



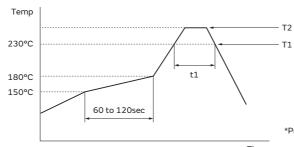
HEAWS HEAW



*Preheat: Temperature 130 to 180°C, Time60 to 120 sec

Time

FSDVA 5CCEG



*Preheat: Temperature 150 to 180°C, Time60 to 120 sec

Time

Series	Hea	ting	Peak Temperature	Cycle	
Jelles	Temp. (T1)	Time (t1)	(T2)	of Reflow	
HEAWS HEAW	230°C	60s	250 (+10/-0)°C/10s	2 times max.	
FSDVA 5CCEG	230°C	40 to 60s	260°C/3s or 250°C/10s	2 times max.	

(3) Reworking with Soldering Iron (LQ Series)

Preheating at 150°C for 1 minute is required. Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the products due to the thermal shock.

Soldering iron power output: 80W max. Temperature of soldering iron tip: 350°C Diameter of soldering iron end: 3.0mm max.

Soldering time: within 3 s

Please keep the fix time with the soldering iron

within 2 times

Reworking with Soldering Iron (HEAWS/HEAW Series)

Temperature of soldering iron tip: 390°C

Soldering time: within 3±1 s

Reworking with Soldering Iron (FSDVA/5CCEG Series) Apply reflow soldering conditions when using soldering iron and for rework.

Especially be careful not to overheat the tip of the soldering iron.

Temperature of soldering iron tip: 360°C

Soldering time: within 3±1 s

Please keep the fix time with the soldering iron within 1 times.

Continued on the following page. 7

RF Inductors

Inductors for General Circuits Soldering and Mounting

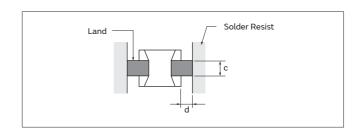
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3. Mounting Instructions

(1) Land Pattern Dimensions

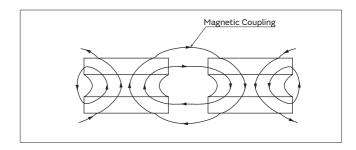
Large lands reduce Q of the mounted chip. Also, large protruding land areas (bordered by lines having dimensions 'c' and 'd' shown) cause floating and electrode leaching.

(2) Land Pattern Designing (LQH series) Please follow the recommended patterns. Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result in "position shift" in the soldering process.



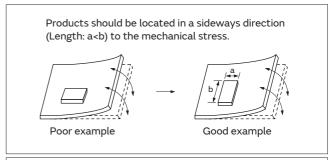
(3) Magnetic Coupling

Since some chip inductors (chip coils) are constructed like an open magnetic circuit, narrow spacing between inductors (coils) may cause magnetic coupling.



(4) PCB Warping

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



The electrode part of the product should be located as in the figure to avoid mechanical stress.

electrode

Poor example

Good example

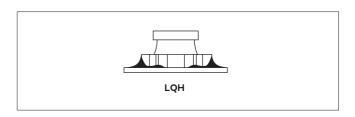
(5) Amount of Solder Paste

Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that solder is applied.

Guideline of solder paste thickness

LQH32N: 100 to 150μm LQH43N: 200 to 300μm 5CCEG: 200μm

5CCEG: 200μm FSDVA: 150 to 200μm



Continued on the following page. 7

Inductors for General Circuits Soldering and Mounting

Continued from the preceding page.

4. Cleaning

The following conditions should be observed when cleaning chip inductors (chip coils):

- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic

Output: 20W/l max.
Duration: 5 minutes max.
Frequency: 28 to 40kHz

Care should be taken not to cause resonance of the

PCB and mounted products.

(3) Cleaning agent

The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.

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

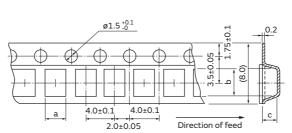
(4) Ensure that flux residue is completely removed. Component should be thoroughly dried after aqueous agents have been removed with deionized water.

For additional cleaning methods, please contact Murata.



Inductors for General Circuits Packaging

Minimum Quantity and 8mm Width Taping Dimensions



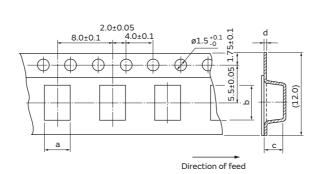
Dimension of the cavity of embossed tape is measured at the bottom side.

Embossed Tape

Part Number	Dimensions		Depth of Cavity	Packaging Code (Minimum Qty. [pcs.])		
Part Number	a	b		ø180mm reel	ø330mm reel	Bulk
LQH32N	2.9	3.6	2.1	L (2000)	K (7500)	-

(in mm)

Minimum Quantity and 12mm Width Embossed Taping Dimensions



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

Embossed Tape

Part Number	Dimensions (c: Depth of Cavity) Packaging Code (Minimum Qty. [pcs.])						Qty. [pcs.])
Part Number	a	b	С	d	ø180mm reel	ø330mm reel	Bulk
LQH43N	3.6	4.9	2.7	0.3	L (500)	K (2500)	-

(in mm)

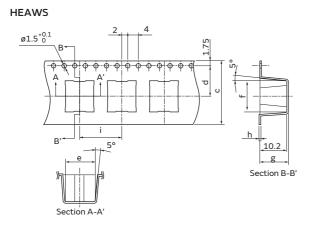
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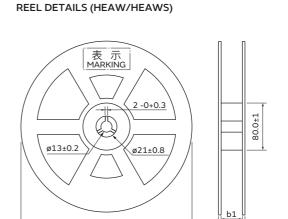
Inductors for General Circuits Packaging

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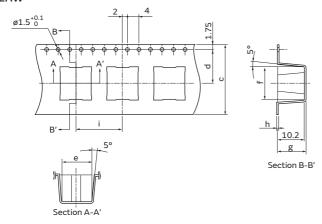
■ Taping for Automatic Insertion of SMT Coils

Tape and Reel Dimensions





HEAW



(in mm)

b2

Surface Mounting Type, Reel/Tape List

Series	Reel Size (mm)			Reel Size (mm) Tape Size (mm)					Q'ty		
Series	a	b1	b2	С	d	е	f	g	h	i	1 Reel
HEAWS	ø330	25.5±0.5	27.5±1	24.0±0.3	11.5±0.1	10.9±0.1	11.2±0.1	10.7±0.1	0.5±0.05	16.0±0.1	250
HEAW	ø330	33.5±0.5	37.5±1	32.0±0.3	14.2±0.1	13.3±0.1	14.3±0.1	11.2±0.1	0.5±0.05	20.0±0.1	200

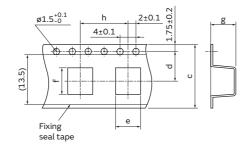
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Inductors for General Circuits Packaging

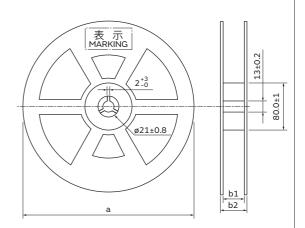
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Tape and Reel Dimensions

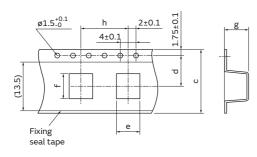
5CCEG



REEL DETAILS (5CCEG,FSDVA)



FSDVA



(in mm)

Surface Mounting Type, Reel/Tape List

Carria	Reel Size (mm)			Reel Size (mm) Tape Size (mm)						Q'ty
Series	a	b1	b2	С	d	е	f	g	h	1 Reel
5CCEG	ø330	17.5±0.5	21.5±1	16.0±0.4	7.5±0.2	6.2±0.2	6.6±0.2	6.2±0.2	12±0.2	750
FSDVA	ø330	17.5±0.5	21.5±1	16.0±0.3	7.5±0.1	6.0±0.2	6.2±0.2	5.9±0.2	12±0.1	1,000

Part Numbering

RF Inductors for Automotive

(Part Number) LQ G 15 H H 1N0 S 0 2 D

1 Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

2Structure

Code	Structure	
G	Multilayer Type (Air-core Inductors (Coils))	
Н	Wire Wound Type (Ferrite Core)	
Р	Film Type	
W	Wire Wound Type (Air-core Inductors (Coils))	

3Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
03	0.6x0.3mm	0201
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
31	3.2x1.6mm	1206

Applications and Characteristics

Code	Series	Applications and Characteristics
н	1.00	Multilayer Air-core Inductors (Coils)
W	LQG	High Q Type
Т	LQP	Film Type (Low DC Resistance Type)
Α	LQW	High Q Type (UHF-SHF)
С	LQW	for Choke (Coating Type)
Н	LQH	for High-frequency Resonant Circuit

5Category

Code	Series	Category			
N	LQP/LQW	Standard Type			
s	LQW				
Z	LQG/LQH		Infotainment		
Н	LQG	Automotive	Powertrain/Safety		

6Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (µH). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than 0.1µH, the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits. For those products whose inductance values are specified using three designated digits, these values may be indicated using the closest two digits instead.

7 Inductance Tolerance

Code	Inductance Tolerance	
В	±0.1nH	
С	±0.2nH	
D	±0.5nH	
G	±2%	
Н	±3%	
J	±5%	
K	±10%	
S	±0.3nH	

8 Features

Code	Features	Series
0	Standard Type	LQG/LQH/LQP/LQW
1	High-Q or Low DC Resistance	LQW15A/15C/18A
8	Low Resistance/ Large Current Type	LQW15A/18A
н	Automotive Powertrain/ Safety	LQP03T
z	Automotive Infotainment	LQP03T

Electrode

•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQG18H
2	511	LQG15H/LQG15W/LQP03T
3	LF Solder	LQH
Z	Automotive Infotainment	LQW15A/15C/18A/18C

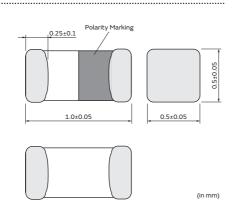
Packaging

Code	Packaging	
K	Embossed Taping (ø330mm Reel)	
L	Embossed Taping (ø180mm Reel)	
В	Bulk	
J	Paper Taping (ø330mm Reel)	
D	Paper Taping (ø180mm Reel)	

RF Inductors

LQG15HZ_02/LQG15HH_02 Series 0402 (1005) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
J	ø330mm Paper Taping	50000
В	Packing in Bulk	1000

Rated Value (□: packaging code)

Part N	umber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQG15HZ1N0B02	LQG15HH1N0B02□	1.0nH ±0.1nH	100MHz	8	100MHz	1000mA	0.07Ω	10000MHz
LQG15HZ1N0C02	LQG15HH1N0C02□	1.0nH ±0.2nH	100MHz	8	100MHz	1000mA	0.07Ω	10000MHz
LQG15HZ1N0S02	LQG15HH1N0S02□	1.0nH ±0.3nH	100MHz	8	100MHz	1000mA	0.07Ω	10000MHz
LQG15HZ1N1B02	LQG15HH1N1B02□	1.1nH ±0.1nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N1C02	LQG15HH1N1C02□	1.1nH ±0.2nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N1S02	LQG15HH1N1S02□	1.1nH ±0.3nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N2B02□	LQG15HH1N2B02□	1.2nH ±0.1nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N2C02	LQG15HH1N2C02□	1.2nH ±0.2nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N2S02	LQG15HH1N2S02□	1.2nH ±0.3nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N3B02□	LQG15HH1N3B02□	1.3nH ±0.1nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N3C02□	LQG15HH1N3C02□	1.3nH ±0.2nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N3S02	LQG15HH1N3S02□	1.3nH ±0.3nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N5B02□	LQG15HH1N5B02□	1.5nH ±0.1nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N5C02□	LQG15HH1N5C02□	1.5nH ±0.2nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N5S02	LQG15HH1N5S02□	1.5nH ±0.3nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N6B02□	LQG15HH1N6B02□	1.6nH ±0.1nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N6C02□	LQG15HH1N6C02□	1.6nH ±0.2nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N6S02□	LQG15HH1N6S02□	1.6nH ±0.3nH	100MHz	8	100MHz	1000mA	0.07Ω	6000MHz
LQG15HZ1N8B02□	LQG15HH1N8B02□	1.8nH ±0.1nH	100MHz	8	100MHz	950mA	0.08Ω	6000MHz
LQG15HZ1N8C02□	LQG15HH1N8C02□	1.8nH ±0.2nH	100MHz	8	100MHz	950mA	0.08Ω	6000MHz
LQG15HZ1N8S02□	LQG15HH1N8S02□	1.8nH ±0.3nH	100MHz	8	100MHz	950mA	0.08Ω	6000MHz
LQG15HZ2N0B02□	LQG15HH2N0B02□	2.0nH ±0.1nH	100MHz	8	100MHz	900mA	0.09Ω	6000MHz
LQG15HZ2N0C02□	LQG15HH2N0C02□	2.0nH ±0.2nH	100MHz	8	100MHz	900mA	0.09Ω	6000MHz
LQG15HZ2N0S02□	LQG15HH2N0S02□	2.0nH ±0.3nH	100MHz	8	100MHz	900mA	0.09Ω	6000MHz
LQG15HZ2N2B02□	LQG15HH2N2B02□	2.2nH ±0.1nH	100MHz	8	100MHz	900mA	0.09Ω	6000MHz
LQG15HZ2N2C02□	LQG15HH2N2C02□	2.2nH ±0.2nH	100MHz	8	100MHz	900mA	0.09Ω	6000MHz
LQG15HZ2N2S02□	LQG15HH2N2S02□	2.2nH ±0.3nH	100MHz	8	100MHz	900mA	0.09Ω	6000MHz
LQG15HZ2N4B02□	LQG15HH2N4B02□	2.4nH ±0.1nH	100MHz	8	100MHz	850mA	0.11Ω	6000MHz
LQG15HZ2N4C02□	LQG15HH2N4C02□	2.4nH ±0.2nH	100MHz	8	100MHz	850mA	0.11Ω	6000MHz
LQG15HZ2N4S02□	LQG15HH2N4S02□	2.4nH ±0.3nH	100MHz	8	100MHz	850mA	0.11Ω	6000MHz
LQG15HZ2N7B02□	LQG15HH2N7B02□	2.7nH ±0.1nH	100MHz	8	100MHz	800mA	0.12Ω	6000MHz
LQG15HZ2N7C02□	LQG15HH2N7C02□	2.7nH ±0.2nH	100MHz	8	100MHz	800mA	0.12Ω	6000MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



	lumber	Inductance	Inductance	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
Infotainment	Powertrain/Safety		Test Frequency					
LQG15HZ2N7S02	LQG15HH2N7S02	2.7nH ±0.3nH	100MHz	8	100MHz	800mA	0.12Ω	6000MHz
LQG15HZ3N0B02	LQG15HH3N0B02	3.0nH ±0.1nH	100MHz	8	100MHz	800mA	0.125Ω	6000MHz
LQG15HZ3N0C02	LQG15HH3N0C02	3.0nH ±0.2nH	100MHz	8	100MHz	800mA	0.125Ω	6000MHz
LQG15HZ3N0S02	LQG15HH3N0S02	3.0nH ±0.3nH	100MHz	8	100MHz	800mA	0.125Ω	6000MHz
LQG15HZ3N3B02□	LQG15HH3N3B02□	3.3nH ±0.1nH	100MHz	8	100MHz	800mA	0.125Ω	6000MHz
LQG15HZ3N3C02□	LQG15HH3N3C02	3.3nH ±0.2nH	100MHz	8	100MHz	800mA	0.125Ω	6000MHz
LQG15HZ3N3S02□	LQG15HH3N3S02	3.3nH ±0.3nH	100MHz	8	100MHz	800mA	0.125Ω	6000MHz
LQG15HZ3N6B02□	LQG15HH3N6B02□	3.6nH ±0.1nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ3N6C02□	LQG15HH3N6C02□	3.6nH ±0.2nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ3N6S02□	LQG15HH3N6S02□	3.6nH ±0.3nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ3N9B02□	LQG15HH3N9B02□	3.9nH ±0.1nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ3N9C02□	LQG15HH3N9C02□	3.9nH ±0.2nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ3N9S02□	LQG15HH3N9S02□	3.9nH ±0.3nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ4N3B02□	LQG15HH4N3B02□	4.3nH ±0.1nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ4N3C02□	LQG15HH4N3C02□	4.3nH ±0.2nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ4N3S02	LQG15HH4N3S02□	4.3nH ±0.3nH	100MHz	8	100MHz	750mA	0.14Ω	6000MHz
LQG15HZ4N7B02□	LQG15HH4N7B02□	4.7nH ±0.1nH	100MHz	8	100MHz	700mA	0.16Ω	6000MHz
LQG15HZ4N7C02□	LQG15HH4N7C02□	4.7nH ±0.2nH	100MHz	8	100MHz	700mA	0.16Ω	6000MHz
LQG15HZ4N7S02□	LQG15HH4N7S02□	4.7nH ±0.3nH	100MHz	8	100MHz	700mA	0.16Ω	6000MHz
LQG15HZ5N1B02□	LQG15HH5N1B02□	5.1nH ±0.1nH	100MHz	8	100MHz	650mA	0.18Ω	5300MHz
LQG15HZ5N1C02□	LQG15HH5N1C02□	5.1nH ±0.2nH	100MHz	8	100MHz	650mA	0.18Ω	5300MHz
LQG15HZ5N1S02□	LQG15HH5N1S02□	5.1nH ±0.3nH	100MHz	8	100MHz	650mA	0.18Ω	5300MHz
LQG15HZ5N6B02□	LQG15HH5N6B02□	5.6nH ±0.1nH	100MHz	8	100MHz	650mA	0.18Ω	4500MHz
LQG15HZ5N6C02□	LQG15HH5N6C02□	5.6nH ±0.2nH	100MHz	8	100MHz	650mA	0.18Ω	4500MHz
LQG15HZ5N6S02□	LQG15HH5N6S02□	5.6nH ±0.3nH	100MHz	8	100MHz	650mA	0.18Ω	4500MHz
LQG15HZ6N2B02□	LQG15HH6N2B02□	6.2nH ±0.1nH	100MHz	8	100MHz	600mA	0.20Ω	4500MHz
LQG15HZ6N2C02□	LQG15HH6N2C02□	6.2nH ±0.2nH	100MHz	8	100MHz	600mA	0.20Ω	4500MHz
LQG15HZ6N2S02□	LQG15HH6N2S02□	6.2nH ±0.3nH	100MHz	8	100MHz	600mA	0.20Ω	4500MHz
LQG15HZ6N8G02□	LQG15HH6N8G02□	6.8nH ±2%	100MHz	8	100MHz	600mA	0.22Ω	4500MHz
LQG15HZ6N8H02□	LQG15HH6N8H02□	6.8nH ±3%	100MHz	8	100MHz	600mA	0.22Ω	4500MHz
LQG15HZ6N8J02□	LQG15HH6N8J02	6.8nH ±5%	100MHz	8	100MHz	600mA	0.22Ω	4500MHz
LQG15HZ7N5G02□	LQG15HH7N5G02□	7.5nH ±2%	100MHz	8	100MHz	550mA	0.24Ω	4200MHz
LQG15HZ7N5H02	LQG15HH7N5H02□	7.5nH ±3%	100MHz	8	100MHz	550mA	0.24Ω	4200MHz
LQG15HZ7N5J02□	LQG15HH7N5J02	7.5nH ±5%	100MHz	8	100MHz	550mA	0.24Ω	4200MHz
LQG15HZ8N2G02□	LQG15HH8N2G02□	8.2nH ±2%	100MHz	8	100MHz	550mA	0.24Ω	3700MHz
LQG15HZ8N2H02□	LQG15HH8N2H02	8.2nH ±3%	100MHz	8	100MHz	550mA	0.24Ω	3700MHz
LQG15HZ8N2J02□	LQG15HH8N2J02	8.2nH ±5%	100MHz	8	100MHz	550mA	0.24Ω	3700MHz
LQG15HZ9N1G02□	LQG15HH9N1G02□	9.1nH ±2%	100MHz	8	100MHz	500mA	0.26Ω	3400MHz
LQG15HZ9N1H02□	LQG15HH9N1H02	9.1nH ±3%	100MHz	8	100MHz	500mA	0.26Ω	3400MHz
LQG15HZ9N1J02□	LQG15HH9N1J02□	9.1nH ±5%	100MHz	8	100MHz	500mA	0.26Ω	3400MHz
LQG15HZ10NG02□	LQG15HH10NG02	10nH ±2%	100MHz	8	100MHz	500mA	0.26Ω	3400MHz
LQG15HZ10NH02	LQG15HH10NH02	10nH ±3%	100MHz	8	100MHz	500mA	0.26Ω	3400MHz
LQG15HZ10NJ02□	LQG15HH10NJ02□	10nH ±5%	100MHz	8	100MHz	500mA	0.26Ω	3400MHz
LQG15HZ12NG02□	LQG15HH12NG02	12nH ±2%	100MHz	8	100MHz	500mA	0.28Ω	3000MHz
LQG15HZ12NH02□	LQG15HH12NH02	12nH ±3%	100MHz	8	100MHz	500mA	0.28Ω	3000MHz
LQG15HZ12NJ02	LQG15HH12NJ02	12nH ±5%	100MHz	8	100MHz	500mA	0.28Ω	3000MHz
LQG15HZ15NG02	LQG15HH15NG02	15nH ±2%	100MHz	8	100MHz	450mA	0.32Ω	2500MHz
LQG15HZ15NH02	LQG15HH15NH02	15nH ±3%	100MHz	8	100MHz	450mA	0.32Ω	2500MHz
LQG15HZ15NJ02	LQG15HH15NJ02	15nH ±5%	100MHz	8	100MHz	450mA	0.32Ω	2500MHz
LQG15HZ18NG02	LQG15HH18NG02	18nH ±2%	100MHz	8	100MHz	400mA	0.36Ω	2200MHz
LQG15HZ18NH02	LQG15HH18NH02	18nH ±3%	100MHz	8	100MHz	400mA	0.36Ω	2200MHz
LQG15HZ18NJ02	LQG15HH18NJ02	18nH ±5%	100MHz	8	100MHz	400mA	0.36Ω	2200MHz
LQG15HZ22NG02	LQG15HH22NG02	22nH ±2%	100MHz	8	100MHz	350mA	0.42Ω	1900MHz
	emp.rise not included): -55 to 12				= 5512		022	

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



Part N	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQG15HZ22NH02□	LQG15HH22NH02□	22nH ±3%	100MHz	8	100MHz	350mA	0.42Ω	1900MHz
LQG15HZ22NJ02□	LQG15HH22NJ02□	22nH ±5%	100MHz	8	100MHz	350mA	0.42Ω	1900MHz
LQG15HZ27NG02□	LQG15HH27NG02□	27nH ±2%	100MHz	8	100MHz	350mA	0.46Ω	1700MHz
LQG15HZ27NH02□	LQG15HH27NH02	27nH ±3%	100MHz	8	100MHz	350mA	0.46Ω	1700MHz
LQG15HZ27NJ02□	LQG15HH27NJ02□	27nH ±5%	100MHz	8	100MHz	350mA	0.46Ω	1700MHz
LQG15HZ33NG02□	LQG15HH33NG02□	33nH ±2%	100MHz	8	100MHz	350mA	0.58Ω	1600MHz
LQG15HZ33NH02□	LQG15HH33NH02□	33nH ±3%	100MHz	8	100MHz	350mA	0.58Ω	1600MHz
LQG15HZ33NJ02□	LQG15HH33NJ02□	33nH ±5%	100MHz	8	100MHz	350mA	0.58Ω	1600MHz
LQG15HZ39NG02□	LQG15HH39NG02□	39nH ±2%	100MHz	8	100MHz	300mA	0.65Ω	1200MHz
LQG15HZ39NH02□	LQG15HH39NH02□	39nH ±3%	100MHz	8	100MHz	300mA	0.65Ω	1200MHz
LQG15HZ39NJ02□	LQG15HH39NJ02□	39nH ±5%	100MHz	8	100MHz	300mA	0.65Ω	1200MHz
LQG15HZ47NG02□	LQG15HH47NG02□	47nH ±2%	100MHz	8	100MHz	300mA	0.72Ω	1000MHz
LQG15HZ47NH02□	LQG15HH47NH02□	47nH ±3%	100MHz	8	100MHz	300mA	0.72Ω	1000MHz
LQG15HZ47NJ02□	LQG15HH47NJ02□	47nH ±5%	100MHz	8	100MHz	300mA	0.72Ω	1000MHz
LQG15HZ56NG02□	LQG15HH56NG02□	56nH ±2%	100MHz	8	100MHz	250mA	0.82Ω	800MHz
LQG15HZ56NH02□	LQG15HH56NH02□	56nH ±3%	100MHz	8	100MHz	250mA	0.82Ω	800MHz
LQG15HZ56NJ02□	LQG15HH56NJ02□	56nH ±5%	100MHz	8	100MHz	250mA	0.82Ω	800MHz
LQG15HZ68NG02□	LQG15HH68NG02□	68nH ±2%	100MHz	8	100MHz	250mA	0.92Ω	800MHz
LQG15HZ68NH02□	LQG15HH68NH02□	68nH ±3%	100MHz	8	100MHz	250mA	0.92Ω	800MHz
LQG15HZ68NJ02□	LQG15HH68NJ02□	68nH ±5%	100MHz	8	100MHz	250mA	0.92Ω	800MHz
LQG15HZ82NG02□	LQG15HH82NG02□	82nH ±2%	100MHz	8	100MHz	200mA	1.20Ω	700MHz
LQG15HZ82NH02□	LQG15HH82NH02□	82nH ±3%	100MHz	8	100MHz	200mA	1.20Ω	700MHz
LQG15HZ82NJ02□	LQG15HH82NJ02□	82nH ±5%	100MHz	8	100MHz	200mA	1.20Ω	700MHz
LQG15HZR10G02□	LQG15HHR10G02□	100nH ±2%	100MHz	8	100MHz	200mA	1.25Ω	600MHz
LQG15HZR10H02□	LQG15HHR10H02□	100nH ±3%	100MHz	8	100MHz	200mA	1.25Ω	600MHz
LQG15HZR10J02□	LQG15HHR10J02□	100nH ±5%	100MHz	8	100MHz	200mA	1.25Ω	600MHz
LQG15HZR12G02□	LQG15HHR12G02□	120nH ±2%	100MHz	8	100MHz	200mA	1.30Ω	600MHz
LQG15HZR12H02□	LQG15HHR12H02□	120nH ±3%	100MHz	8	100MHz	200mA	1.30Ω	600MHz
LQG15HZR12J02□	LQG15HHR12J02□	120nH ±5%	100MHz	8	100MHz	200mA	1.30Ω	600MHz
LQG15HZR15G02□	LQG15HHR15G02□	150nH ±2%	100MHz	8	100MHz	150mA	2.99Ω	550MHz
LQG15HZR15H02□	LQG15HHR15H02	150nH ±3%	100MHz	8	100MHz	150mA	2.99Ω	550MHz
LQG15HZR15J02□	LQG15HHR15J02□	150nH ±5%	100MHz	8	100MHz	150mA	2.99Ω	550MHz
LQG15HZR18G02□	LQG15HHR18G02□	180nH ±2%	100MHz	8	100MHz	150mA	3.38Ω	500MHz
LQG15HZR18H02□	LQG15HHR18H02□	180nH ±3%	100MHz	8	100MHz	150mA	3.38Ω	500MHz
LQG15HZR18J02□	LQG15HHR18J02□	180nH ±5%	100MHz	8	100MHz	150mA	3.38Ω	500MHz
LQG15HZR22G02□	LQG15HHR22G02□	220nH ±2%	100MHz	8	100MHz	120mA	3.77Ω	450MHz
LQG15HZR22H02□	LQG15HHR22H02□	220nH ±3%	100MHz	8	100MHz	120mA	3.77Ω	450MHz
LQG15HZR22J02□	LQG15HHR22J02□	220nH ±5%	100MHz	8	100MHz	120mA	3.77Ω	450MHz
LQG15HZR27G02□	LQG15HHR27G02□	270nH ±2%	100MHz	8	100MHz	110mA	4.94Ω	400MHz
LQG15HZR27H02□	LQG15HHR27H02□	270nH ±3%	100MHz	8	100MHz	110mA	4.94Ω	400MHz
LQG15HZR27J02□	LQG15HHR27J02□	270nH ±5%	100MHz	8	100MHz	110mA	4.94Ω	400MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

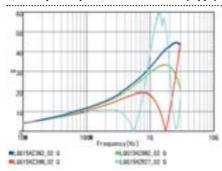
Only for reflow soldering

*S.R.F: Self Resonant Frequency

Inductance-Frequency Characteristics (Typ.)

1008 Frequency(No) MUNICIPALINATION CO. **L001540340_00 L **L001540307,00 L

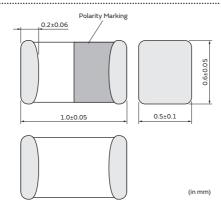
Q-Frequency Characteristics (Typ.)





LQG15WZ_02/LQG15WH_02 Series 0402 (1005) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
J	ø330mm Paper Taping	40000
В	Packing in Bulk	100

Rated Value (□: packaging code)

	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQG15WZ0N7B02	LQG15WH0N7B02□	0.7nH ±0.1nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N7C02	LQG15WH0N7C02□	0.7nH ±0.2nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N7S02	LQG15WH0N7S02	0.7nH ±0.3nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N8B02	LQG15WH0N8B02□	0.8nH ±0.1nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N8C02	LQG15WH0N8C02□	0.8nH ±0.2nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N8S02	LQG15WH0N8S02	0.8nH ±0.3nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N9B02□	LQG15WH0N9B02	0.9nH ±0.1nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N9C02□	LQG15WH0N9C02	0.9nH ±0.2nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ0N9S02□	LQG15WH0N9S02□	0.9nH ±0.3nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ1N0B02□	LQG15WH1N0B02□	1.0nH ±0.1nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ1N0C02	LQG15WH1N0C02	1.0nH ±0.2nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ1N0S02□	LQG15WH1N0S02□	1.0nH ±0.3nH	100MHz	-	250MHz	1200mA	0.03Ω	15000MHz
LQG15WZ1N1B02□	LQG15WH1N1B02□	1.1nH ±0.1nH	100MHz	-	250MHz	1200mA	0.03Ω	14000MHz
LQG15WZ1N1C02	LQG15WH1N1C02□	1.1nH ±0.2nH	100MHz	-	250MHz	1200mA	0.03Ω	14000MHz
LQG15WZ1N1S02□	LQG15WH1N1S02□	1.1nH ±0.3nH	100MHz	-	250MHz	1200mA	0.03Ω	14000MHz
LQG15WZ1N2B02□	LQG15WH1N2B02□	1.2nH ±0.1nH	100MHz	-	250MHz	1200mA	0.03Ω	13000MHz
LQG15WZ1N2C02	LQG15WH1N2C02□	1.2nH ±0.2nH	100MHz	-	250MHz	1200mA	0.03Ω	13000MHz
LQG15WZ1N2S02	LQG15WH1N2S02□	1.2nH ±0.3nH	100MHz	-	250MHz	1200mA	0.03Ω	13000MHz
LQG15WZ1N3B02□	LQG15WH1N3B02□	1.3nH ±0.1nH	100MHz	-	250MHz	1200mA	0.03Ω	12000MHz
LQG15WZ1N3C02	LQG15WH1N3C02□	1.3nH ±0.2nH	100MHz	-	250MHz	1200mA	0.03Ω	12000MHz
LQG15WZ1N3S02□	LQG15WH1N3S02□	1.3nH ±0.3nH	100MHz	-	250MHz	1200mA	0.03Ω	12000MHz
LQG15WZ1N4B02□	LQG15WH1N4B02□	1.4nH ±0.1nH	100MHz	23	250MHz	1000mA	0.04Ω	12000MHz
LQG15WZ1N4C02	LQG15WH1N4C02□	1.4nH ±0.2nH	100MHz	23	250MHz	1000mA	0.04Ω	12000MHz
LQG15WZ1N4S02	LQG15WH1N4S02□	1.4nH ±0.3nH	100MHz	23	250MHz	1000mA	0.04Ω	12000MHz
LQG15WZ1N5B02□	LQG15WH1N5B02□	1.5nH ±0.1nH	100MHz	23	250MHz	1000mA	0.04Ω	11000MHz
LQG15WZ1N5C02	LQG15WH1N5C02	1.5nH ±0.2nH	100MHz	23	250MHz	1000mA	0.04Ω	11000MHz
LQG15WZ1N5S02□	LQG15WH1N5S02□	1.5nH ±0.3nH	100MHz	23	250MHz	1000mA	0.04Ω	11000MHz
LQG15WZ1N6B02□	LQG15WH1N6B02□	1.6nH ±0.1nH	100MHz	23	250MHz	1000mA	0.04Ω	10000MHz
LQG15WZ1N6C02□	LQG15WH1N6C02□	1.6nH ±0.2nH	100MHz	23	250MHz	1000mA	0.04Ω	10000MHz
LQG15WZ1N6S02	LQG15WH1N6S02□	1.6nH ±0.3nH	100MHz	23	250MHz	1000mA	0.04Ω	10000MHz
LQG15WZ1N7B02□	LQG15WH1N7B02□	1.7nH ±0.1nH	100MHz	23	250MHz	1000mA	0.04Ω	10000MHz
LQG15WZ1N7C02□	LQG15WH1N7C02□	1.7nH ±0.2nH	100MHz	23	250MHz	1000mA	0.04Ω	10000MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

Only for reflow soldering



	lumber		Industra					
Infotainment	Powertrain/Safety	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
		1.754 .0.254		22	2EOMH-	1000mA	0.040	10000MHz
LQG15WZ1N7S02 LQG15WZ1N8B02	LQG15WH1N7S02 LQG15WH1N8B02	1.7nH ±0.3nH 1.8nH ±0.1nH	100MHz 100MHz	23	250MHz 250MHz	1000mA	0.04Ω	9000MHz
LQG15WZ1N8C02	LQG15WH1N8C02	1.8nH ±0.2nH	100MHz	23	250MHz	1000mA	0.04Ω	9000MHz
LQG15WZ1N8S02	LQG15WH1N8S02	1.8nH ±0.3nH	100MHz	23	250MHz	1000mA	0.04Ω	9000MHz
LQG15WZ1N9B02	LQG15WH1N9B02	1.9nH ±0.1nH	100MHz	23	250MHz	1000mA	0.05Ω	8000MHz
LQG15WZ1N9C02	LQG15WH1N9C02	1.9nH ±0.2nH	100MHz	23	250MHz	1000mA	0.05Ω	
LQG15WZ1N9S02	LQG15WH1N9C02	1.9nH ±0.2nH	100MHz	23	250MHz	1000mA	0.05Ω	8000MHz
LQG15WZ1N9302	-			23	250MHz	1000mA	0.05Ω	8000MHz
LQG15WZ2N0C02	LQG15WH2N0B02 LQG15WH2N0C02	2.0nH ±0.1nH 2.0nH ±0.2nH	100MHz 100MHz	23	250MHz	1000mA	0.05Ω	8000MHz 8000MHz
LQG15WZ2N0S02	LQG15WH2N0S02	2.0nH ±0.2nH	100MHz	23	250MHz	1000mA	0.05Ω	8000MHz
LQG15WZ2N1B02	LQG15WH2N0302	2.1nH ±0.1nH	100MHz	23	250MHz	1000mA	0.06Ω	8000MHz
LQG15WZ2N1C02	LQG15WH2N1C02	2.1nH ±0.1nH 2.1nH ±0.2nH	100MHz	23	250MHz	1000mA	0.06Ω	8000MHz
LQG15WZ2N1S02	LQG15WH2N1C02	2.1nH ±0.2nH	100MHz	23	250MHz	1000mA	0.06Ω	8000MHz
LQG15WZ2N2B02	LQG15WH2N1302	2.2nH ±0.3nH	100MHz	23	250MHz	1000mA	0.06Ω	
LQG15WZ2N2C02	-							8000MHz
LQG15WZ2N2C02	LQG15WH2N2C02 LQG15WH2N2S02	2.2nH ±0.2nH 2.2nH ±0.3nH	100MHz 100MHz	23	250MHz 250MHz	1000mA 1000mA	0.06Ω	8000MHz 8000MHz
LQG15WZ2N2S02	LQG15WH2N2S02	2.2nH ±0.3nH 2.3nH ±0.1nH	100MHz	23	250MHz	1000mA	0.06Ω	7000MHz
LQG15WZ2N3C02	-		100MHz	23	250MHz		0.07Ω	7000MHz
LQG15WZ2N3S02	LQG15WH2N3C02	2.3nH ±0.2nH		23		1000mA 1000mA		7000MHz
LQG15WZ2N4B02	LQG15WH2N3S02	2.3nH ±0.3nH	100MHz 100MHz	23	250MHz		0.07Ω	6500MHz
•	LQG15WH2N4B02	2.4nH ±0.1nH		23	250MHz	1000mA		
LQG15WZ2N4C02	LQG15WH2N4C02	2.4nH ±0.2nH	100MHz		250MHz	1000mA	0.06Ω	6500MHz
LQG15WZ2N4S02	LQG15WH2N4S02	2.4nH ±0.3nH	100MHz	23	250MHz	1000mA	0.06Ω	6500MHz
LQG15WZ2N5B02	LQG15WH2N5B02	2.5nH ±0.1nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N5C02	LQG15WH2N5C02	2.5nH ±0.2nH	100MHz	23	250MHz	900mA		6500MHz
LQG15WZ2N5S02	LQG15WH2N5S02	2.5nH ±0.3nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N6B02	LQG15WH2N6B02	2.6nH ±0.1nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N6C02	LQG15WH2N6C02	2.6nH ±0.2nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N6S02	LQG15WH2N6S02	2.6nH ±0.3nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N7B02	LQG15WH2N7B02	2.7nH ±0.1nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N7C02	LQG15WH2N7C02	2.7nH ±0.2nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N7S02	LQG15WH2N7S02	2.7nH ±0.3nH	100MHz	23	250MHz	900mA	0.07Ω	6500MHz
LQG15WZ2N8B02	LQG15WH2N8B02	2.8nH ±0.1nH	100MHz	23	250MHz	900mA	0.08Ω	6500MHz
LQG15WZ2N8C02	LQG15WH2N8C02	2.8nH ±0.2nH	100MHz	23	250MHz	900mA	0.08Ω	6500MHz
LQG15WZ2N8S02	LQG15WH2N8S02	2.8nH ±0.3nH	100MHz	23	250MHz	900mA	Ω80.0	6500MHz
LQG15WZ2N9B02	LQG15WH2N9B02	2.9nH ±0.1nH	100MHz	23	250MHz	900mA	Ω80.0	6500MHz
LQG15WZ2N9C02	LQG15WH2N9C02	2.9nH ±0.2nH	100MHz	23	250MHz	900mA	Ω80.0	6500MHz
LQG15WZ2N9S02	LQG15WH2N9S02	2.9nH ±0.3nH	100MHz	23	250MHz	900mA	Ω80.0	6500MHz
LQG15WZ3N0B02	LQG15WH3N0B02	3.0nH ±0.1nH	100MHz	23	250MHz	900mA	0.08Ω	6000MHz
LQG15WZ3N0C02	LQG15WH3N0C02	3.0nH ±0.2nH	100MHz	23	250MHz	900mA	0.08Ω	6000MHz
LQG15WZ3N0S02	LQG15WH3N0S02	3.0nH ±0.3nH	100MHz	23	250MHz	900mA	0.08Ω	6000MHz
LQG15WZ3N1B02	LQG15WH3N1B02	3.1nH ±0.1nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N1C02	LQG15WH3N1C02	3.1nH ±0.2nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N1S02	LQG15WH3N1S02	3.1nH ±0.3nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N2B02	LQG15WH3N2B02	3.2nH ±0.1nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N2C02	LQG15WH3N2C02	3.2nH ±0.2nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N2S02	LQG15WH3N2S02	3.2nH ±0.3nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N3B02	LQG15WH3N3B02	3.3nH ±0.1nH	100MHz	23	250MHz	900mA	0.08Ω	6000MHz
LQG15WZ3N3C02	LQG15WH3N3C02	3.3nH ±0.2nH	100MHz	23	250MHz	900mA	0.08Ω	6000MHz
LQG15WZ3N3S02	LQG15WH3N3S02	3.3nH ±0.3nH	100MHz	23	250MHz	900mA	0.08Ω	6000MHz
LQG15WZ3N4B02	LQG15WH3N4B02	3.4nH ±0.1nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N4C02	LQG15WH3N4C02	3.4nH ±0.2nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N4S02	LQG15WH3N4S02	3.4nH ±0.3nH	100MHz	23	250MHz	900mA	0.09Ω	6000MHz
LQG15WZ3N5B02□	LQG15WH3N5B02□	3.5nH ±0.1nH	100MHz	23	250MHz	900mA	0.09Ω	5800MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C Only for reflow soldering



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COLISW23NSCO2 LQGISWH3NSCO2 3.54H d. 3.7H d. 3.7		· · · · · · · · · · · · · · · · · · ·	Inductance		Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
		-							
	•								
	LQG15WZ3N6B02□	LQG15WH3N6B02	3.6nH ±0.1nH	100MHz	23	250MHz	900mA		5500MHz
QQ15W13NYBORZ QQ15W13NYBORZ 3.784+0.16H 3.00MHz 23 2.50MHz 9.00mA 0.100 5.500MHz	LQG15WZ3N6C02	LQG15WH3N6C02	3.6nH ±0.2nH	100MHz	23	250MHz	900mA	0.09Ω	5500MHz
	LQG15WZ3N6S02□	LQG15WH3N6S02	3.6nH ±0.3nH	100MHz	23	250MHz	900mA	0.09Ω	5500MHz
QG15W2NTS02	LQG15WZ3N7B02□	LQG15WH3N7B02□	3.7nH ±0.1nH	100MHz	23	250MHz	900mA	0.10Ω	5500MHz
CQG15WZ3N8602 CQG15W43N8602 3.8mH + 0.7mH 100MHz 23 250MHz 900mA 0.100 5000MHz 1000MHz 23 250MHz 900mA 0.090 5000MHz 1000MHz 23 250MHz 900mA 0.000 5000MHz 1000MHz 23 250MHz 900mA 0.100 5000MHz 1000MHz 1000MHz 23 250MHz 900mA 0.100 5000MHz 1000MHz 1000MHz 23 250MHz 900mA 0.110 5000MHz 1000MHz 1000MHz 23 250MHz 900mA 0.110 5000MHz 1000MHz 1000MHz 23 250MHz 900mA 0.110 5000MHz 1000MHz 23 250MHz 900mA 0.110 5000MHz 1000MHz 1000MHz 23 250MHz 900mA 0.110 5000MHz 1000MHz 23 250MHz 900mA 0.110 4500MHz 1000MHz 23 250MHz 900mA 0.110 4500M	LQG15WZ3N7C02□	LQG15WH3N7C02	3.7nH ±0.2nH	100MHz	23	250MHz	900mA	0.10Ω	5500MHz
LQG15WZ3N8502 LQG15WH3N8502 3.8nH + 0.2nH 100MHz 23 250MHz 500mA 0.100 5000MHz 10016Wz3N8502 20016W3N8502 3.8nH + 0.2nH 100MHz 23 250MHz 500mA 0.100 5000MHz 10016Wz3N8502 20016W3N8502 3.9nH + 0.2nH 100MHz 23 250MHz 900mA 0.090 5000MHz 10016Wz3N8502 20016Wz3N8502 20016W3N8502 3.9nH + 0.2nH 100MHz 23 250MHz 900mA 0.090 5000MHz 10016Wz3N8502 20016WH3N8502 3.9nH + 0.2nH 100MHz 23 250MHz 900mA 0.090 5000MHz 10016Wz3N8502 20016WH3N8502 4.1nH + 0.2nH 100MHz 23 250MHz 900mA 0.090 5000MHz 20016Wz3N8502 20016WH3N8502 4.1nH + 0.2nH 100MHz 23 250MHz 900mA 0.100 5000MHz 20016Wz3N8502 20016WH3N8502 4.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.100 5000MHz 20016Wz3N8502 20016WH3N8502 4.3nH + 0.2nH 100MHz 23 250MHz 800mA 0.100 5000MHz 20016Wz3N8502 20016WH3N8502 4.3nH + 0.2nH 100MHz 23 250MHz 800mA 0.100 5000MHz 20016Wz3N8502 20016WH3N8502 4.3nH + 0.2nH 100MHz 23 250MHz 800mA 0.100 5000MHz 20016Wz3N8502 20016WH3N8502 4.7nH + 0.2nH 100MHz 23 250MHz 800mA 0.100 5000MHz 20016Wz3N8502 20016WH3N8502 4.7nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 20016Wz3N8502 20016Wx4N7502 4.7nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 20016Wz3N8502 20016Wx4N7502 5.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 20016Wz3N8502 20016Wx4N7502 5.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 20016Wz3N8502 20016Wx4N7502 5.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 20016Wz3N8502 20016Wx4N7502 5.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 20016Wz3N8502 20016Wx4N7502 5.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 20016Wz3N8502 20016Wx4N7502 5.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 4500MHz 20016Wz3N8502 20016Wx4N7502 5.1nH + 0.2nH 100MHz 23 250MHz 800mA 0.110 4500MHz 20016Wz3N8502 20016Wx4N7502 5.1nH +	LQG15WZ3N7S02□	LQG15WH3N7S02□	3.7nH ±0.3nH	100MHz	23	250MHz	900mA	0.10Ω	5500MHz
CQG15WZ3N8502 CQG15WH3N8502 3.6nH + 0.3nH 1.00MHz 23 2.50MHz 9.00mA 0.100 5.000MHz	LQG15WZ3N8B02□	LQG15WH3N8B02□	3.8nH ±0.1nH	100MHz	23	250MHz	900mA	0.10Ω	5000MHz
LQG15WZ3N9802 LQG15W14N9802 3.5mH ±0.1mH 100MHz 23 250MHz 900mA 0.090 5000MHz	LQG15WZ3N8C02□	LQG15WH3N8C02	3.8nH ±0.2nH	100MHz	23	250MHz	900mA	0.10Ω	5000MHz
CQG15WZ3N9502	LQG15WZ3N8S02□	LQG15WH3N8S02□	3.8nH ±0.3nH	100MHz	23	250MHz	900mA	0.10Ω	5000MHz
CQ15WZ3N9S02	LQG15WZ3N9B02□	LQG15WH3N9B02□	3.9nH ±0.1nH	100MHz	23	250MHz	900mA	0.09Ω	5000MHz
LQG15WZ4N1B02 LQG15WHAN1B02 4.1mH + 0.1mH 100MHz 23 250MHz 800mA 0.100 5000MHz	LQG15WZ3N9C02□	LQG15WH3N9C02□	3.9nH ±0.2nH	100MHz	23	250MHz	900mA	0.09Ω	5000MHz
LQG15WZ4N1CO2	LQG15WZ3N9S02□	LQG15WH3N9S02□	3.9nH ±0.3nH	100MHz	23	250MHz	900mA	0.09Ω	5000MHz
LQG15WZ4N1502 LQG15WH4N1502 4.3nH ± 0.3nH 100MHz 23 250MHz 800mA 0.100 5000MHz	LQG15WZ4N1B02□	LQG15WH4N1B02□	4.1nH ±0.1nH	100MHz	23	250MHz	800mA	0.10Ω	5000MHz
LQG15WZ4N3B02 LQG15WH4N3B02 4.3nH ±0.1nH 100MHz 23 250MHz 800mA 0.100 5000MHz	LQG15WZ4N1C02□	LQG15WH4N1C02□	4.1nH ±0.2nH	100MHz	23	250MHz	800mA	0.10Ω	5000MHz
LQG15WZ4N3COZ LQG15WH4N3COZ 4.3mH ±0.2mH 100MHz 23 250MHz 800mA 0.100 5000MHz	LQG15WZ4N1S02	LQG15WH4N1S02□	4.1nH ±0.3nH	100MHz	23	250MHz	800mA	0.10Ω	5000MHz
LQG1SWZ4N7802	LQG15WZ4N3B02□	LQG15WH4N3B02□	4.3nH ±0.1nH	100MHz	23	250MHz	800mA	0.10Ω	5000MHz
LQG15WZ4N7B02 LQG15WH4N7B02 4.7nH ±0.1nH 100MHz 23 250MHz 800mA 0.110 5000MHz 1QG15WZ4N7C02 LQG15WH4N7C02 4.7nH ±0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 1QG15WZ4N7S02 LQG15WH4N7S02 5.1nH ±0.3nH 100MHz 23 250MHz 800mA 0.120 4500MHz 1QG15WZ5N1B02 5.1nH ±0.2nH 100MHz 23 250MHz 800mA 0.120 4500MHz 1QG15WZ5N1B02 LQG15WH5N1B02 5.1nH ±0.2nH 100MHz 23 250MHz 800mA 0.120 4500MHz 1QG15WZ5N1S02 LQG15WH5N1B02 5.1nH ±0.3nH 100MHz 23 250MHz 800mA 0.120 4500MHz 1QG15WZ5N1S02 LQG15WH5NB02 5.6nH ±0.3nH 100MHz 23 250MHz 800mA 0.120 4500MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.6nH ±0.3nH 100MHz 23 250MHz 800mA 0.130 4500MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.6nH ±0.3nH 100MHz 23 250MHz 800mA 0.130 4500MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.6nH ±0.3nH 100MHz 23 250MHz 800mA 0.130 4500MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.6nH ±0.3nH 100MHz 23 250MHz 800mA 0.130 4500MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.6nH ±0.3nH 100MHz 23 250MHz 800mA 0.130 4500MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.6nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH5NB02 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.130 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.140 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 700mA 0.140 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 600mA 0.140 4000MHz 1QG15WZ5NSB02 LQG15WH6NSD2 5.8nH ±0.3nH 100MHz 23 250MHz 600mA 0.140 4000MHz 1QG15WZ5NSB02 LQG15WH5NSD2 7.5nH ±0% 100MHz 23 250MHz 600mA 0.160 4000MHz 1Q	LQG15WZ4N3C02□	LQG15WH4N3C02□	4.3nH ±0.2nH	100MHz	23	250MHz	800mA	0.10Ω	5000MHz
LQG15WZ4N7CO2 LQG15WH4N7CO2 4.7nH±0.2nH 100MHz 23 250MHz 800mA 0.110 5000MHz 100MHz 23 250MHz 800mA 0.110 5000MHz 100MHz 23 250MHz 800mA 0.110 5000MHz 100MHz 100MHz 23 250MHz 800mA 0.120 4500MHz 100MHz 100MMz 100MMz 100MHz 100MHz 100MHz 100MHz 100MHz 100MHz 100MHz 100M	LQG15WZ4N3S02□	LQG15WH4N3S02□	4.3nH ±0.3nH	100MHz	23	250MHz	800mA	0.10Ω	5000MHz
LQG15WZ4N7S02 LQG15WH4N7S02 4.7nH ± 0.3nH 100MHz 23 250MHz 800mA 0.120 4500MHz	LQG15WZ4N7B02	LQG15WH4N7B02□	4.7nH ±0.1nH	100MHz	23	250MHz	800mA	0.11Ω	5000MHz
LQG15WZ5N1B02	LQG15WZ4N7C02	LQG15WH4N7C02□	4.7nH ±0.2nH	100MHz	23	250MHz	800mA	0.11Ω	5000MHz
LQG15WZ5N1502	LQG15WZ4N7S02□	LQG15WH4N7S02□	4.7nH ±0.3nH	100MHz	23	250MHz	800mA	0.11Ω	5000MHz
LQG15WZ5NISO2	LQG15WZ5N1B02	LQG15WH5N1B02□	5.1nH ±0.1nH	100MHz	23	250MHz	800mA	0.12Ω	4500MHz
LQG15WZ5NISO2	LQG15WZ5N1C02	LQG15WH5N1C02	5.1nH ±0.2nH	100MHz	23	250MHz	800mA	0.12Ω	4500MHz
LQG15WZ5N6B02		_			23				
LQG15WZ5N6CO2		_			23		800mA		
LQG15WZ5N6SO2		_			23		800mA		
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LQG15WZ6N2B02		-							
LQG15WZ6N2CO2	-	, –							
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		-							
Operating temp.range (Self-temp.rise not included): -55 to 125°C	-	-		100MHz	23	250MHz	550mA	0.17Ω	3400MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



5.44								
	lumber	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
Infotainment	Powertrain/Safety	0.5-11-20/		22	250141-	F004	0.21.0	22001411-
LQG15WZ9N5G02	LQG15WH9N5G02	9.5nH ±2%	100MHz	23	250MHz	500mA	0.21Ω	3300MHz
LQG15WZ9N5H02	LQG15WH9N5H02	9.5nH ±3%	100MHz	23	250MHz	500mA	0.21Ω	3300MHz
LQG15WZ9N5J02	LQG15WH9N5J02	9.5nH ±5%	100MHz	23	250MHz	500mA	0.21Ω	3300MHz
LQG15WZ10NG02	LQG15WH10NG02	10nH ±2%	100MHz	23	250MHz	500mA	0.19Ω	3300MHz
LQG15WZ10NH02	LQG15WH10NH02	10nH ±3%	100MHz	23	250MHz	500mA	0.19Ω	3300MHz
LQG15WZ10NJ02□	LQG15WH10NJ02	10nH ±5%	100MHz	23	250MHz	500mA	0.19Ω	3300MHz
LQG15WZ11NG02	LQG15WH11NG02	11nH ±2%	100MHz	23	250MHz	450mA	0.22Ω	3000MHz
LQG15WZ11NH02	LQG15WH11NH02	11nH ±3%	100MHz	23	250MHz	450mA	0.22Ω	3000MHz
LQG15WZ11NJ02□	LQG15WH11NJ02	11nH ±5%	100MHz	23	250MHz	450mA	0.22Ω	3000MHz
LQG15WZ12NG02	LQG15WH12NG02	12nH ±2%	100MHz	23	250MHz	450mA	0.24Ω	2800MHz
LQG15WZ12NH02□	LQG15WH12NH02	12nH ±3%	100MHz	23	250MHz	450mA	0.24Ω	2800MHz
LQG15WZ12NJ02□	LQG15WH12NJ02□	12nH ±5%	100MHz	23	250MHz	450mA	0.24Ω	2800MHz
LQG15WZ13NG02□	LQG15WH13NG02	13nH ±2%	100MHz	23	250MHz	400mA	0.26Ω	2800MHz
LQG15WZ13NH02□	LQG15WH13NH02	13nH ±3%	100MHz	23	250MHz	400mA	0.26Ω	2800MHz
LQG15WZ13NJ02	LQG15WH13NJ02□	13nH ±5%	100MHz	23	250MHz	400mA	0.26Ω	2800MHz
LQG15WZ15NG02	LQG15WH15NG02□	15nH ±2%	100MHz	23	250MHz	400mA	0.28Ω	2300MHz
LQG15WZ15NH02□	LQG15WH15NH02□	15nH ±3%	100MHz	23	250MHz	400mA	0.28Ω	2300MHz
LQG15WZ15NJ02□	LQG15WH15NJ02□	15nH ±5%	100MHz	23	250MHz	400mA	0.28Ω	2300MHz
LQG15WZ16NG02□	LQG15WH16NG02□	16nH ±2%	100MHz	20	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ16NH02□	LQG15WH16NH02	16nH ±3%	100MHz	20	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ16NJ02□	LQG15WH16NJ02□	16nH ±5%	100MHz	20	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ18NG02□	LQG15WH18NG02□	18nH ±2%	100MHz	22	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ18NH02	LQG15WH18NH02	18nH ±3%	100MHz	22	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ18NJ02□	LQG15WH18NJ02□	18nH ±5%	100MHz	22	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ19NG02□	LQG15WH19NG02□	19nH ±2%	100MHz	20	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ19NH02□	LQG15WH19NH02□	19nH ±3%	100MHz	20	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ19NJ02□	LQG15WH19NJ02□	19nH ±5%	100MHz	20	250MHz	260mA	0.8Ω	2300MHz
LQG15WZ20NG02□	LQG15WH20NG02□	20nH ±2%	100MHz	20	250MHz	260mA	1.1Ω	2100MHz
LQG15WZ20NH02□	LQG15WH20NH02□	20nH ±3%	100MHz	20	250MHz	260mA	1.1Ω	2100MHz
LQG15WZ20NJ02□	LQG15WH20NJ02□	20nH ±5%	100MHz	20	250MHz	260mA	1.1Ω	2100MHz
LQG15WZ22NG02□	LQG15WH22NG02	22nH ±2%	100MHz	20	250MHz	230mA	1.1Ω	2100MHz
LQG15WZ22NH02□	LQG15WH22NH02	22nH ±3%	100MHz	20	250MHz	230mA	1.1Ω	2100MHz
LQG15WZ22NJ02□	LQG15WH22NJ02□	22nH ±5%	100MHz	20	250MHz	230mA	1.1Ω	2100MHz
LQG15WZ23NG02□	LQG15WH23NG02□	23nH ±2%	100MHz	22	250MHz	230mA	1.1Ω	2000MHz
LQG15WZ23NH02□	LQG15WH23NH02	23nH ±3%	100MHz	22	250MHz	230mA	1.1Ω	2000MHz
LQG15WZ23NJ02□	LQG15WH23NJ02□	23nH ±5%	100MHz	22	250MHz	230mA	1.1Ω	2000MHz
LQG15WZ24NG02□	LQG15WH24NG02□	24nH ±2%	100MHz	20	250MHz	230mA	1.2Ω	2000MHz
LQG15WZ24NH02□	LQG15WH24NH02	24nH ±3%	100MHz	20	250MHz	230mA	1.2Ω	2000MHz
LQG15WZ24NJ02	LQG15WH24NJ02	24nH ±5%	100MHz	20	250MHz	230mA	1.2Ω	2000MHz
LQG15WZ27NG02□	LQG15WH27NG02□	27nH ±2%	100MHz	20	250MHz	230mA	1.3Ω	1700MHz
LQG15WZ27NH02□	LQG15WH27NH02□	27nH ±3%	100MHz	20	250MHz	230mA	1.3Ω	1700MHz
LQG15WZ27NJ02	LQG15WH27NJ02	27nH ±5%	100MHz	20	250MHz	230mA	1.3Ω	1700MHz
LQG15WZ30NG02	LQG15WH30NG02	30nH ±2%	100MHz	20	250MHz	220mA	1.3Ω	1700MHz
LQG15WZ30NH02	LQG15WH30NH02	30nH ±3%	100MHz	20	250MHz	220mA	1.3Ω	1700MHz
LQG15WZ30NJ02	LQG15WH30NJ02	30nH ±5%	100MHz	20	250MHz	220mA	1.3Ω	1700MHz
LQG15WZ33NG02	LQG15WH33NG02	33nH ±2%	100MHz	20	250MHz	220mA	1.5Ω	1600MHz
LQG15WZ33NH02	LQG15WH33NH02	33nH ±3%	100MHz	20	250MHz	220mA	1.5Ω	1600MHz
LQG15WZ33NJ02	LQG15WH33NJ02	33nH ±5%	100MHz	20	250MHz	220mA	1.5Ω	1600MHz
LQG15WZ36NG02	LQG15WH36NG02	36nH ±2%	100MHz	20	250MHz	190mA	1.5Ω	1600MHz
LQG15WZ36NH02	LQG15WH36NH02	36nH ±2%	100MHz	20	250MHz	190mA	1.5Ω	1600MHz
LQG15WZ36NH02	LQG15WH36NH02	36nH ±3% 36nH ±5%	100MHz	20	250MHz	190mA 190mA	1.5Ω	1600MHz
LQG15WZ39NG02	LQG15WH36NJ02		100MHz	20		190mA 190mA	1.5Ω	1400MHz
LQG15WZ39NH02	LQG15WH39NG02	39nH ±2% 39nH ±3%	100MHz	20	250MHz	190mA 190mA	1.5Ω	1400MHz
-	emp.rise not included): -55 to 12		1001-1112	20	250MHz	130IIIA	1.51/	17001/1012

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



Part N	umber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQG15WZ39NJ02	LQG15WH39NJ02□	39nH ±5%	100MHz	20	250MHz	190mA	1.5Ω	1400MHz
LQG15WZ40NG02□	LQG15WH40NG02	40nH ±2%	100MHz	20	250MHz	190mA	1.5Ω	1400MHz
LQG15WZ40NH02□	LQG15WH40NH02	40nH ±3%	100MHz	20	250MHz	190mA	1.5Ω	1400MHz
LQG15WZ40NJ02□	LQG15WH40NJ02□	40nH ±5%	100MHz	20	250MHz	190mA	1.5Ω	1400MHz
LQG15WZ43NG02□	LQG15WH43NG02□	43nH ±2%	100MHz	22	250MHz	190mA	1.6Ω	1400MHz
LQG15WZ43NH02□	LQG15WH43NH02□	43nH ±3%	100MHz	22	250MHz	190mA	1.6Ω	1400MHz
LQG15WZ43NJ02□	LQG15WH43NJ02□	43nH ±5%	100MHz	22	250MHz	190mA	1.6Ω	1400MHz
LQG15WZ47NG02□	LQG15WH47NG02□	47nH ±2%	100MHz	22	250MHz	190mA	1.6Ω	1300MHz
LQG15WZ47NH02□	LQG15WH47NH02□	47nH ±3%	100MHz	22	250MHz	190mA	1.6Ω	1300MHz
LQG15WZ47NJ02□	LQG15WH47NJ02□	47nH ±5%	100MHz	22	250MHz	190mA	1.6Ω	1300MHz
LQG15WZ51NG02□	LQG15WH51NG02□	51nH ±2%	100MHz	22	250MHz	190mA	1.8Ω	1300MHz
LQG15WZ51NH02□	LQG15WH51NH02	51nH ±3%	100MHz	22	250MHz	190mA	1.8Ω	1300MHz
LQG15WZ51NJ02□	LQG15WH51NJ02□	51nH ±5%	100MHz	22	250MHz	190mA	1.8Ω	1300MHz
LQG15WZ56NG02□	LQG15WH56NG02□	56nH ±2%	100MHz	22	250MHz	180mA	1.8Ω	1200MHz
LQG15WZ56NH02□	LQG15WH56NH02	56nH ±3%	100MHz	22	250MHz	180mA	1.8Ω	1200MHz
LQG15WZ56NJ02□	LQG15WH56NJ02□	56nH ±5%	100MHz	22	250MHz	180mA	1.8Ω	1200MHz
LQG15WZ62NG02□	LQG15WH62NG02□	62nH ±2%	100MHz	22	250MHz	180mA	1.9Ω	1100MHz
LQG15WZ62NH02□	LQG15WH62NH02□	62nH ±3%	100MHz	22	250MHz	180mA	1.9Ω	1100MHz
LQG15WZ62NJ02□	LQG15WH62NJ02□	62nH ±5%	100MHz	22	250MHz	180mA	1.9Ω	1100MHz
LQG15WZ68NG02□	LQG15WH68NG02□	68nH ±2%	100MHz	22	250MHz	160mA	2.0Ω	1100MHz
LQG15WZ68NH02□	LQG15WH68NH02□	68nH ±3%	100MHz	22	250MHz	160mA	2.0Ω	1100MHz
LQG15WZ68NJ02□	LQG15WH68NJ02□	68nH ±5%	100MHz	22	250MHz	160mA	2.0Ω	1100MHz
LQG15WZ72NG02□	LQG15WH72NG02□	72nH ±2%	100MHz	22	250MHz	160mA	2.2Ω	1100MHz
LQG15WZ72NH02□	LQG15WH72NH02	72nH ±3%	100MHz	22	250MHz	160mA	2.2Ω	1100MHz
LQG15WZ72NJ02□	LQG15WH72NJ02□	72nH ±5%	100MHz	22	250MHz	160mA	2.2Ω	1100MHz
LQG15WZ75NG02□	LQG15WH75NG02□	75nH ±2%	100MHz	22	250MHz	160mA	2.2Ω	1100MHz
LQG15WZ75NH02□	LQG15WH75NH02□	75nH ±3%	100MHz	22	250MHz	160mA	2.2Ω	1100MHz
LQG15WZ75NJ02□	LQG15WH75NJ02□	75nH ±5%	100MHz	22	250MHz	160mA	2.2Ω	1100MHz
LQG15WZ82NG02□	LQG15WH82NG02□	82nH ±2%	100MHz	22	250MHz	160mA	2.3Ω	900MHz
LQG15WZ82NH02□	LQG15WH82NH02	82nH ±3%	100MHz	22	250MHz	160mA	2.3Ω	900MHz
LQG15WZ82NJ02□	LQG15WH82NJ02□	82nH ±5%	100MHz	22	250MHz	160mA	2.3Ω	900MHz
LQG15WZ91NG02□	LQG15WH91NG02□	91nH ±2%	100MHz	23	250MHz	160mA	2.3Ω	900MHz
LQG15WZ91NH02□	LQG15WH91NH02	91nH ±3%	100MHz	23	250MHz	160mA	2.3Ω	900MHz
LQG15WZ91NJ02□	LQG15WH91NJ02□	91nH ±5%	100MHz	23	250MHz	160mA	2.3Ω	900MHz
LQG15WZR10G02□	LQG15WHR10G02□	100nH ±2%	100MHz	23	250MHz	150mA	2.5Ω	900MHz
LQG15WZR10H02□	LQG15WHR10H02	100nH ±3%	100MHz	23	250MHz	150mA	2.5Ω	900MHz
LQG15WZR10J02□	LQG15WHR10J02	100nH ±5%	100MHz	23	250MHz	150mA	2.5Ω	900MHz
LQG15WZR11G02□	LQG15WHR11G02□	110nH ±2%	100MHz	22	250MHz	150mA	2.7Ω	800MHz
LQG15WZR11H02□	LQG15WHR11H02	110nH ±3%	100MHz	22	250MHz	150mA	2.7Ω	800MHz
LQG15WZR11J02□	LQG15WHR11J02□	110nH ±5%	100MHz	22	250MHz	150mA	2.7Ω	800MHz
LQG15WZR12G02□	LQG15WHR12G02□	120nH ±2%	100MHz	22	250MHz	140mA	2.7Ω	800MHz
LQG15WZR12H02□	LQG15WHR12H02□	120nH ±3%	100MHz	22	250MHz	140mA	2.7Ω	800MHz
LQG15WZR12J02□	LQG15WHR12J02□	120nH ±5%	100MHz	22	250MHz	140mA	2.7Ω	800MHz
LQG15WZR13G02□	LQG15WHR13G02□	130nH ±2%	100MHz	22	250MHz	110mA	2.9Ω	800MHz
LQG15WZR13H02□	LQG15WHR13H02	130nH ±3%	100MHz	22	250MHz	110mA	2.9Ω	800MHz
LQG15WZR13J02□	LQG15WHR13J02□	130nH ±5%	100MHz	22	250MHz	110mA	2.9Ω	800MHz
LQG15WZR15G02□	LQG15WHR15G02□	150nH ±2%	100MHz	22	250MHz	110mA	3.0Ω	800MHz
LQG15WZR15H02□	LQG15WHR15H02	150nH ±3%	100MHz	22	250MHz	110mA	3.0Ω	800MHz
LQG15WZR15J02□	LQG15WHR15J02□	150nH ±5%	100MHz	22	250MHz	110mA	3.0Ω	800MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

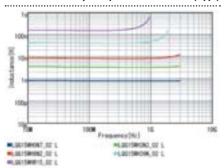
Only for reflow soldering

*S.R.F: Self Resonant Frequency

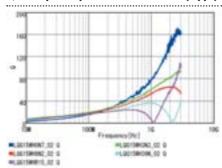
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Inductance-Frequency Characteristics (Typ.)



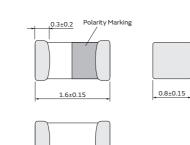
Q-Frequency Characteristics (Typ.)



RF Inductors

LQG18HH_00 Series 0603 (1608) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
В	Packing in Bulk	1000



0.8±0.15

Rated Value (□: packaging code)

Part N	lumber		Inductance	24 • • •	07.15	5.10		CDENC : N
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
_	LQG18HH1N2S00□	1.2nH ±0.3nH	100MHz	12	100MHz	1100mA	0.10Ω	6000MHz
_	LQG18HH1N5S00□	1.5nH ±0.3nH	100MHz	12	100MHz	1100mA	0.10Ω	6000MHz
_	LQG18HH1N8S00□	1.8nH ±0.3nH	100MHz	12	100MHz	1100mA	0.10Ω	5000MHz
_	LQG18HH2N2S00□	2.2nH ±0.3nH	100MHz	12	100MHz	1100mA	0.10Ω	5000MHz
_	LQG18HH2N7S00□	2.7nH ±0.3nH	100MHz	12	100MHz	1000mA	0.13Ω	4000MHz
_	LQG18HH3N3S00□	3.3nH ±0.3nH	100MHz	12	100MHz	900mA	0.14Ω	4000MHz
_	LQG18HH3N9S00□	3.9nH ±0.3nH	100MHz	12	100MHz	900mA	0.15Ω	3000MHz
_	LQG18HH4N7S00□	4.7nH ±0.3nH	100MHz	12	100MHz	800mA	0.16Ω	3000MHz
_	LQG18HH5N6S00□	5.6nH ±0.3nH	100MHz	12	100MHz	800mA	0.17Ω	3000MHz
_	LQG18HH6N2S00□	6.2nH ±0.3nH	100MHz	12	100MHz	800mA	0.18Ω	2800MHz
_	LQG18HH6N8J00□	6.8nH ±5%	100MHz	12	100MHz	800mA	0.18Ω	2800MHz
_	LQG18HH8N2J00□	8.2nH ±5%	100MHz	12	100MHz	800mA	0.20Ω	2600MHz
_	LQG18HH10NJ00□	10nH ±5%	100MHz	12	100MHz	700mA	0.25Ω	2400MHz
_	LQG18HH12NJ00□	12nH ±5%	100MHz	12	100MHz	600mA	0.30Ω	2200MHz
_	LQG18HH15NJ00□	15nH ±5%	100MHz	12	100MHz	600mA	0.35Ω	1800MHz
_	LQG18HH18NJ00□	18nH ±5%	100MHz	12	100MHz	600mA	0.35Ω	1800MHz
_	LQG18HH22NJ00□	22nH ±5%	100MHz	12	100MHz	500mA	0.50Ω	1600MHz
_	LQG18HH27NJ00□	27nH ±5%	100MHz	12	100MHz	500mA	0.54Ω	1400MHz
_	LQG18HH33NJ00□	33nH ±5%	100MHz	12	100MHz	500mA	0.54Ω	1200MHz
_	LQG18HH39NJ00□	39nH ±5%	100MHz	12	100MHz	400mA	0.60Ω	1000MHz
_	LQG18HH47NJ00□	47nH ±5%	100MHz	12	100MHz	400mA	0.70Ω	900MHz
_	LQG18HH56NJ00□	56nH ±5%	100MHz	12	100MHz	400mA	0.70Ω	800MHz
_	LQG18HH68NJ00□	68nH ±5%	100MHz	12	100MHz	400mA	0.80Ω	800MHz
_	LQG18HH82NJ00□	82nH ±5%	100MHz	12	100MHz	300mA	0.85Ω	700MHz
_	LQG18HHR10J00□	100nH ±5%	100MHz	12	100MHz	300mA	0.90Ω	600MHz
_	LQG18HHR12J00□	120nH ±5%	100MHz	14	100MHz	300mA	1.10Ω	550MHz
_	LQG18HHR15J00□	150nH ±5%	100MHz	14	100MHz	300mA	1.20Ω	550MHz
_	LQG18HHR18J00□	180nH ±5%	100MHz	14	100MHz	300mA	1.30Ω	500MHz
_	LQG18HHR22J00□	220nH ±5%	100MHz	14	100MHz	300mA	1.50Ω	450MHz
_	LQG18HHR27J00□	270nH ±5%	100MHz	14	100MHz	200mA	1.90Ω	400MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

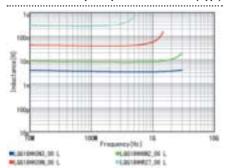
Only for reflow soldering

*S.R.F: Self Resonant Frequency

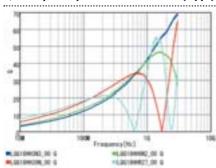
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Inductance-Frequency Characteristics (Typ.)



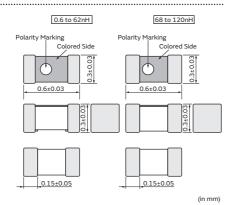
Q-Frequency Characteristics (Typ.)



● RF Inductors

LQP03TN_Z2 Series 0201 (0603) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	15000
J	ø330mm Paper Taping	50000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part N	umber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQP03TN0N6BZ2	_	0.6nH ±0.1nH	500MHz	14	500MHz	850mA	0.07Ω	20000MHz
LQP03TN0N6CZ2	_	0.6nH ±0.2nH	500MHz	14	500MHz	850mA	0.07Ω	20000MHz
LQP03TN0N7BZ2	_	0.7nH ±0.1nH	500MHz	14	500MHz	800mA	0.08Ω	20000MHz
LQP03TN0N7CZ2	_	0.7nH ±0.2nH	500MHz	14	500MHz	800mA	0.08Ω	20000MHz
LQP03TN0N8BZ2	_	0.8nH ±0.1nH	500MHz	14	500MHz	800mA	0.08Ω	18000MHz
LQP03TN0N8CZ2	_	0.8nH ±0.2nH	500MHz	14	500MHz	800mA	0.08Ω	18000MHz
LQP03TN0N9BZ2	_	0.9nH ±0.1nH	500MHz	14	500MHz	750mA	0.10Ω	18000MHz
LQP03TN0N9CZ2	_	0.9nH ±0.2nH	500MHz	14	500MHz	750mA	0.10Ω	18000MHz
LQP03TN1N0BZ2	_	1.0nH ±0.1nH	500MHz	14	500MHz	750mA	0.10Ω	17000MHz
LQP03TN1N0CZ2	_	1.0nH ±0.2nH	500MHz	14	500MHz	750mA	0.10Ω	17000MHz
LQP03TN1N1BZ2	_	1.1nH ±0.1nH	500MHz	14	500MHz	750mA	0.10Ω	17000MHz
LQP03TN1N1CZ2	_	1.1nH ±0.2nH	500MHz	14	500MHz	750mA	0.10Ω	17000MHz
LQP03TN1N2BZ2	_	1.2nH ±0.1nH	500MHz	14	500MHz	750mA	0.10Ω	17000MHz
LQP03TN1N2CZ2	_	1.2nH ±0.2nH	500MHz	14	500MHz	750mA	0.10Ω	17000MHz
LQP03TN1N3BZ2	_	1.3nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	17000MHz
LQP03TN1N3CZ2	_	1.3nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	17000MHz
LQP03TN1N4BZ2	_	1.4nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	16000MHz
LQP03TN1N4CZ2	_	1.4nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	16000MHz
LQP03TN1N5BZ2	_	1.5nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N5CZ2	_	1.5nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N6BZ2	_	1.6nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N6CZ2□	_	1.6nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N7BZ2□	_	1.7nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N7CZ2□	_	1.7nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N8BZ2□	_	1.8nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N8CZ2	_	1.8nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	15000MHz
LQP03TN1N9BZ2□	_	1.9nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	12500MHz
LQP03TN1N9CZ2□	_	1.9nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	12500MHz
LQP03TN2N0BZ2□	_	2.0nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	12500MHz
LQP03TN2N0CZ2	_	2.0nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	12500MHz
LQP03TN2N1BZ2□	_	2.1nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	11000MHz
LQP03TN2N1CZ2□	_	2.1nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	11000MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

Only for reflow soldering



Part N	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQP03TN2N2BZ2	_	2.2nH ±0.1nH	500MHz	14	500MHz	600mA	0.15Ω	11000MHz
LQP03TN2N2CZ2	_	2.2nH ±0.2nH	500MHz	14	500MHz	600mA	0.15Ω	11000MHz
LQP03TN2N3BZ2	_	2.3nH ±0.1nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N3CZ2	_	2.3nH ±0.2nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N4BZ2	_	2.4nH ±0.1nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N4CZ2	_	2.4nH ±0.2nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N5BZ2	_	2.5nH ±0.1nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N5CZ2	_	2.5nH ±0.2nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N6BZ2	_	2.6nH ±0.1nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N6CZ2	_	2.6nH ±0.2nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N7BZ2	_	2.7nH ±0.1nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N7CZ2	_	2.7nH ±0.2nH	500MHz	14	500MHz	500mA	0.20Ω	10000MHz
LQP03TN2N8BZ2	_	2.8nH ±0.1nH	500MHz	14	500MHz	500mA	0.20Ω	9500MHz
LQP03TN2N8CZ2	_	2.8nH ±0.2nH	500MHz	14	500MHz	500mA	0.20Ω	9500MHz
LQP03TN2N9BZ2	_	2.9nH ±0.1nH	500MHz	14	500MHz	500mA	0.20Ω	9500MHz
LQP03TN2N9CZ2	_	2.9nH ±0.2nH	500MHz	14	500MHz	500mA	0.20Ω	9500MHz
LQP03TN3N0BZ2	_	3.0nH ±0.1nH	500MHz	14	500MHz	450mA	0.25Ω	9500MHz
LQP03TN3N0CZ2	_	3.0nH ±0.2nH	500MHz	14	500MHz	450mA	0.25Ω	9500MHz
LQP03TN3N1BZ2	_	3.1nH ±0.1nH	500MHz	14	500MHz	450mA	0.25Ω	8000MHz
LQP03TN3N1CZ2	_	3.1nH ±0.2nH	500MHz	14	500MHz	450mA	0.25Ω	8000MHz
LQP03TN3N2BZ2	_	3.2nH ±0.1nH	500MHz	14	500MHz	450mA	0.25Ω	8000MHz
LQP03TN3N2CZ2	_	3.2nH ±0.2nH	500MHz	14	500MHz	450mA	0.25Ω	8000MHz
LQP03TN3N3BZ2	_	3.3nH ±0.1nH	500MHz	14	500MHz	450mA	0.25Ω	8000MHz
LQP03TN3N3CZ2	_	3.3nH ±0.2nH	500MHz	14	500MHz	450mA	0.25Ω	8000MHz
LQP03TN3N4BZ2	_	3.4nH ±0.1nH	500MHz	14	500MHz	450mA	0.25Ω	7000MHz
LQP03TN3N4CZ2	_	3.4nH ±0.2nH	500MHz	14	500MHz	450mA	0.25Ω	7000MHz
LQP03TN3N5BZ2□	_	3.5nH ±0.1nH	500MHz	14	500MHz	450mA	0.25Ω	7000MHz
LQP03TN3N5CZ2	_	3.5nH ±0.2nH	500MHz	14	500MHz	450mA	0.25Ω	7000MHz
LQP03TN3N6BZ2	_	3.6nH ±0.1nH	500MHz	14	500MHz	400mA	0.30Ω	6000MHz
LQP03TN3N6CZ2	_	3.6nH ±0.2nH	500MHz	14	500MHz	400mA	0.30Ω	6000MHz
LQP03TN3N7BZ2	_	3.7nH ±0.1nH	500MHz	14	500MHz	400mA	0.30Ω	6000MHz
LQP03TN3N7CZ2	_	3.7nH ±0.2nH	500MHz	14	500MHz	400mA	0.30Ω	6000MHz
LQP03TN3N7EZ2		3.8nH ±0.1nH	500MHz	14	500MHz	400mA	0.30Ω	6000MHz
LQP03TN3N8CZ2		3.8nH ±0.2nH	500MHz	14	500MHz	400mA	0.30Ω	6000MHz
LQP03TN3N9BZ2		3.9nH ±0.1nH	500MHz	14	500MHz	400mA	0.30Ω	5700MHz
LQP03TN3N9CZ2	_	3.9nH ±0.2nH	500MHz	14	500MHz	400mA	0.30Ω	5700MHz
LQP03TN4N0BZ2		4.0nH ±0.1nH	500MHz	14	500MHz	350mA	0.40Ω	5300MHz
LQP03TN4N0CZ2	_	4.0nH ±0.2nH	500MHz	14	500MHz	350mA	0.40Ω	
LQP03TN4N1BZ2	_	4.1nH ±0.1nH	500MHz	14	500MHz	350mA	0.40Ω	5300MHz
LQP03TN4N1CZ2	_	4.1nH ±0.2nH	500MHz	14	500MHz	350mA	0.40Ω	5300MHz 5300MHz
•	_				500MHz			
LQP03TN4N2BZ2 LQP03TN4N2CZ2	_	4.2nH ±0.1nH 4.2nH ±0.2nH	500MHz 500MHz	14	500MHz	350mA 350mA	0.40Ω	5300MHz 5300MHz
	_							
LQP03TN4N3HZ2	_	4.3nH ±3%	500MHz	14	500MHz	350mA 350mA	0.40Ω	5300MHz
LQP03TN4N3JZ2	_	4.3nH ±5%	500MHz	14	500MHz		0.40Ω	5300MHz
LQP03TN4N7HZ2	_	4.7nH ±3%	500MHz	14	500MHz	350mA	0.40Ω	4400MHz
LQP03TN4N7JZ2	_	4.7nH ±5%	500MHz	14	500MHz	350mA	0.40Ω	4400MHz
LOPOSTNENI 173	_	5.1nH ±3%	500MHz	14	500MHz	350mA	0.40Ω	4200MHz
LQP03TN5N1JZ2	_	5.1nH ±5%	500MHz	14	500MHz	350mA	0.40Ω	4200MHz
LQP03TN5N6HZ2	_	5.6nH ±3%	500MHz	14	500MHz	350mA	0.40Ω	4000MHz
LQP03TN5N6JZ2	_	5.6nH ±5%	500MHz	14	500MHz	350mA	0.40Ω	4000MHz
LQP03TN6N2HZ2	_	6.2nH ±3%	500MHz	14	500MHz	300mA	0.60Ω	4000MHz
LQP03TN6N2JZ2	_	6.2nH ±5%	500MHz	14	500MHz	300mA	0.60Ω	4000MHz
LQP03TN6N8HZ2	_	6.8nH ±3%	500MHz	14	500MHz	300mA	0.60Ω	3900MH

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



Part N	Number		Inductance					6 D E+ (;)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQP03TN6N8JZ2	_	6.8nH ±5%	500MHz	14	500MHz	300mA	0.60Ω	3900MHz
LQP03TN7N5HZ2	_	7.5nH ±3%	500MHz	14	500MHz	300mA	0.60Ω	3700MHz
LQP03TN7N5JZ2	_	7.5nH ±5%	500MHz	14	500MHz	300mA	0.60Ω	3700MHz
LQP03TN8N2HZ2	_	8.2nH ±3%	500MHz	14	500MHz	250mA	0.70Ω	3600MHz
LQP03TN8N2JZ2	_	8.2nH ±5%	500MHz	14	500MHz	250mA	0.70Ω	3600MHz
LQP03TN9N1HZ2	_	9.1nH ±3%	500MHz	14	500MHz	250mA	0.70Ω	3300MHz
LQP03TN9N1JZ2	_			14			0.70Ω	
• –		9.1nH ±5%	500MHz		500MHz	250mA		3300MHz
LQP03TN10NHZ2	_	10nH ±3%	500MHz	14	500MHz	250mA	0.70Ω	3200MHz
LQP03TN10NJZ2	_	10nH ±5%	500MHz	14	500MHz	250mA	0.70Ω	3200MHz
LQP03TN11NHZ2	_	11nH ±3%	500MHz	14	500MHz	250mA	0.80Ω	2900MHz
LQP03TN11NJZ2	_	11nH ±5%	500MHz	14	500MHz	250mA	0.80Ω	2900MHz
LQP03TN12NHZ2	_	12nH ±3%	500MHz	12	500MHz	250mA	0.70Ω	2900MHz
LQP03TN12NJZ2	_	12nH ±5%	500MHz	12	500MHz	250mA	0.70Ω	2900MHz
LQP03TN13NHZ2	_	13nH ±3%	500MHz	12	500MHz	250mA	0.80Ω	2600MHz
LQP03TN13NJZ2□	_	13nH ±5%	500MHz	12	500MHz	250mA	0.80Ω	2600MHz
LQP03TN15NHZ2	_	15nH ±3%	500MHz	12	500MHz	250mA	0.70Ω	2600MHz
LQP03TN15NJZ2□	_	15nH ±5%	500MHz	12	500MHz	250mA	0.70Ω	2600MHz
LQP03TN16NHZ2□	_	16nH ±3%	500MHz	12	500MHz	200mA	0.95Ω	2200MHz
LQP03TN16NJZ2□	_	16nH ±5%	500MHz	12	500MHz	200mA	0.95Ω	2200MHz
LQP03TN18NHZ2□	_	18nH ±3%	500MHz	12	500MHz	200mA	0.80Ω	2200MHz
LQP03TN18NJZ2□	_	18nH ±5%	500MHz	12	500MHz	200mA	0.80Ω	2200MHz
LQP03TN20NHZ2	_	20nH ±3%	500MHz	12	500MHz	150mA	2.30Ω	2200MHz
LQP03TN20NJZ2	_	20nH ±5%	500MHz	12	500MHz	150mA	2.30Ω	2200MHz
LQP03TN22NHZ2	_	22nH ±3%	500MHz	12	500MHz	150mA	1.90Ω	2200MHz
LQP03TN22NJZ2□	_	22nH ±5%	500MHz	12	500MHz	150mA	1.90Ω	2200MHz
LQP03TN24NHZ2	_	24nH ±3%	500MHz	12	500MHz	140mA	2.30Ω	2000MHz
LQP03TN24NJZ2	_	24nH ±5%	500MHz	12	500MHz	140mA	2.30Ω	2000MHz
LQP03TN27NHZ2	_	27nH ±3%	500MHz	12	500MHz	140mA	2.30Ω	2000MHz
LQP03TN27NJZ2	_	27nH ±5%	500MHz	12	500MHz	140mA	2.30Ω	2000MHz
LQP03TN30NHZ2	_	30nH ±3%	500MHz	9	500MHz	120mA	2.95Ω	1700MHz
LQP03TN30NJZ2	_	30nH ±5%	500MHz	9	500MHz	120mA	2.95Ω	1700MHz
LQP03TN33NHZ2	_	33nH ±3%	300MHz	9	300MHz	120mA	2.95Ω	1700MHz
LQP03TN33NJZ2	_	33nH ±5%	300MHz	9	300MHz	120mA	2.95Ω	1700MHz
LQP03TN36NHZ2		36nH ±3%	300MHz	9	300MHz	120mA	3.00Ω	1500MHz
LQP03TN36NJZ2	_	36nH ±5%	300MHz	9	300MHz	120mA	3.00Ω	1500MHz
-	_			9				
LQP03TN39NHZ2	_	39nH ±3%	300MHz		300MHz	120mA	3.00Ω	1500MHz
LQP03TN39NJZ2	_	39nH ±5%	300MHz	9	300MHz	120mA	3.00Ω	1500MHz
LQP03TN43NHZ2	_	43nH ±3%	300MHz	9	300MHz	100mA	3.60Ω	1300MHz
LQP03TN43NJZ2	_	43nH ±5%	300MHz	9	300MHz	100mA	3.60Ω	1300MHz
LQP03TN47NHZ2	_	47nH ±3%	300MHz	9	300MHz	100mA	3.60Ω	1300MHz
LQP03TN47NJZ2	_	47nH ±5%	300MHz	9	300MHz	100mA	3.60Ω	1300MHz
LQP03TN51NHZ2	_	51nH ±3%	300MHz	9	300MHz	100mA	3.90Ω	1200MHz
LQP03TN51NJZ2	_	51nH ±5%	300MHz	9	300MHz	100mA	3.90Ω	1200MHz
LQP03TN56NHZ2	_	56nH ±3%	300MHz	9	300MHz	100mA	3.90Ω	1200MHz
LQP03TN56NJZ2	_	56nH ±5%	300MHz	9	300MHz	100mA	3.90Ω	1200MHz
LQP03TN62NHZ2□	_	62nH ±3%	300MHz	8	300MHz	100mA	8Ω	1100MHz
LQP03TN62NJZ2	_	62nH ±5%	300MHz	8	300MHz	100mA	8Ω	1100MHz
LQP03TN68NHZ2	-	68nH ±3%	300MHz	8	300MHz	100mA	8Ω	1100MHz
LQP03TN68NJZ2	_	68nH ±5%	300MHz	8	300MHz	100mA	8Ω	1100MHz
LQP03TN75NHZ2□	_	75nH ±3%	300MHz	8	300MHz	100mA	10Ω	1000MHz
LQP03TN75NJZ2	_	75nH ±5%	300MHz	8	300MHz	100mA	10Ω	1000MHz
LQP03TN82NHZ2□	_	82nH ±3%	300MHz	8	300MHz	100mA	10Ω	1000MHz
LQP03TN82NJZ2□	_	82nH ±5%	300MHz	8	300MHz	100mA	10Ω	1000MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



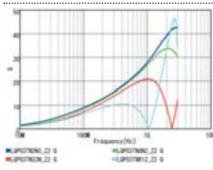
Part N	lumber	Inductance	tance Inductance Test Frequency	Q (min.)	Q Test Frequency	Dated Current	Max. of DC Resistance	S.R.F* (min.)
Infotainment	Powertrain/Safety	inductance		Q (IIIII.)		Nated Current		
LQP03TN91NHZ2	_	91nH ±3%	300MHz	8	300MHz	80mA	10Ω	900MHz
LQP03TN91NJZ2□	_	91nH ±5%	300MHz	8	300MHz	80mA	10Ω	900MHz
LQP03TNR10HZ2	_	100nH ±3%	300MHz	8	300MHz	80mA	10Ω	900MHz
LQP03TNR10JZ2	_	100nH ±5%	300MHz	8	300MHz	80mA	10Ω	900MHz
LQP03TNR11HZ2	_	110nH ±3%	300MHz	8	300MHz	80mA	12Ω	800MHz
LQP03TNR11JZ2□	_	110nH ±5%	300MHz	8	300MHz	80mA	12Ω	800MHz
LQP03TNR12HZ2□	_	120nH ±3%	300MHz	8	300MHz	80mA	12Ω	800MHz
LQP03TNR12JZ2□	_	120nH ±5%	300MHz	8	300MHz	80mA	12Ω	800MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

Only for reflow soldering

Inductance-Frequency Characteristics (Typ.)

Q-Frequency Characteristics (Typ.)

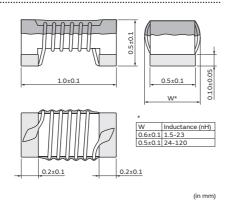


^{*}S.R.F: Self Resonant Frequency

● RF Inductors

LQW15AN_0Z Series 0402 (1005) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part N	umber		Inductance		07.15	B	м свое	6.5.5.4.4.4
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN1N5B0Z	_	1.5nH ±0.1nH	100MHz	10	250MHz	1000mA	0.03Ω	18.0GHz
LQW15AN1N5C0Z	_	1.5nH ±0.2nH	100MHz	10	250MHz	1000mA	0.03Ω	18.0GHz
LQW15AN1N5D0Z	_	1.5nH ±0.5nH	100MHz	10	250MHz	1000mA	0.03Ω	18.0GHz
LQW15AN1N6C0Z	_	1.6nH ±0.2nH	100MHz	10	250MHz	750mA	0.07Ω	17.0GHz
LQW15AN1N6D0Z	_	1.6nH ±0.5nH	100MHz	10	250MHz	750mA	0.07Ω	17.0GHz
LQW15AN1N7C0Z	_	1.7nH ±0.2nH	100MHz	10	250MHz	640mA	0.10Ω	17.0GHz
LQW15AN1N7D0Z	_	1.7nH ±0.5nH	100MHz	10	250MHz	640mA	0.10Ω	17.0GHz
LQW15AN1N8C0Z	_	1.8nH ±0.2nH	100MHz	10	250MHz	460mA	0.16Ω	16.0GHz
LQW15AN1N8D0Z	-	1.8nH ±0.5nH	100MHz	10	250MHz	460mA	0.16Ω	16.0GHz
LQW15AN2N4B0Z□	I	2.4nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N4C0Z□	-	2.4nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N4D0Z□	-	2.4nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N5B0Z□	-	2.5nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N5C0Z□	-	2.5nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N5D0Z□	-	2.5nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N6B0Z□	-	2.6nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N6C0Z	_	2.6nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N6D0Z	_	2.6nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N7B0Z	_	2.7nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N7C0Z	_	2.7nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N7D0Z	_	2.7nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N8B0Z□	_	2.8nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N8C0Z	_	2.8nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N8D0Z	_	2.8nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N9B0Z	_	2.9nH ±0.1nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN2N9C0Z	_	2.9nH ±0.2nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN2N9D0Z□	_	2.9nH ±0.5nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N0B0Z	_	3.0nH ±0.1nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N0C0Z	_	3.0nH ±0.2nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N0D0Z	_	3.0nH ±0.5nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N1B0Z	_	3.1nH ±0.1nH	100MHz	20	250MHz	570mA	0.13Ω	14.0GHz
LQW15AN3N1C0Z	_	3.1nH ±0.2nH	100MHz	20	250MHz	570mA	0.13Ω	14.0GHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

Only for reflow soldering



Part N	lumber	Inductance	Inductance	O (min.)	O Tost Fraguenes	Pated Current	Max. of DC Resistance	S D E* (min.)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN3N1D0Z	_	3.1nH ±0.5nH	100MHz	20	250MHz	570mA	0.13Ω	14.0GHz
LQW15AN3N2B0Z□	_	3.2nH ±0.1nH	100MHz	15	250MHz	500mA	0.17Ω	14.0GHz
LQW15AN3N2C0Z	_	3.2nH ±0.2nH	100MHz	15	250MHz	500mA	0.17Ω	14.0GHz
LQW15AN3N2D0Z	_	3.2nH ±0.5nH	100MHz	15	250MHz	500mA	0.17Ω	14.0GHz
LQW15AN3N9B0Z□	_	3.9nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN3N9C0Z	_	3.9nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN3N9D0Z	_	3.9nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N1B0Z	_	4.1nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N1C0Z	_	4.1nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N1D0Z	_	4.1nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N3B0Z	_	4.3nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N3C0Z	_	4.3nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N3D0Z	_	4.3nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N4B0Z	_	4.4nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N4C0Z	_	4.4nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N4D0Z	_	4.4nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N5B0Z		4.5nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N5C0Z	_	4.5nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N5D0Z		4.5nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N6B0Z	_	4.6nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N6C0Z	_	4.6nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
<u> </u>	_					750mA		
LQW15AN4N6D0Z	_	4.6nH ±0.5nH	100MHz	25	250MHz		0.07Ω	8.0GHz
LQW15AN4N7B0Z	_	4.7nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N7C0Z	_	4.7nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N7D0Z	_	4.7nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N8B0Z	_	4.8nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N8C0Z	_	4.8nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N8D0Z	_	4.8nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N9B0Z	_	4.9nH ±0.1nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN4N9C0Z	_	4.9nH ±0.2nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN4N9D0Z	_	4.9nH ±0.5nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N0B0Z	_	5.0nH ±0.1nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N0C0Z	_	5.0nH ±0.2nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N0D0Z	_	5.0nH ±0.5nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N1B0Z	_	5.1nH ±0.1nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N1C0Z	_	5.1nH ±0.2nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N1D0Z	_	5.1nH ±0.5nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N8B0Z	_	5.8nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN5N8C0Z	_	5.8nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN5N8D0Z	_	5.8nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N2B0Z	_	6.2nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N2C0Z	_	6.2nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N2D0Z	_	6.2nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N3B0Z	_	6.3nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N3C0Z	_	6.3nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N3D0Z	_	6.3nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N4B0Z	_	6.4nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N4C0Z	_	6.4nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N4D0Z	_	6.4nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N5B0Z	_	6.5nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N5C0Z	_	6.5nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N5D0Z	_	6.5nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N6B0Z	_	6.6nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



Part N	lumber		Industance					
Infotainment	Powertrain/Safety	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN6N6C0Z	—	6.6nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N6D0Z	_	6.6nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N7B0Z	_	6.7nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N7C0Z	_	6.7nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N7D0Z	_	6.7nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N8G0Z	_	6.8nH ±2%	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N8H0Z	_	6.8nH ±3%	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N8J0Z	_	6.8nH ±5%	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N9G0Z	_	6.9nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN6N9H0Z	_	6.9nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN6N9J0Z□	_	6.9nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N0G0Z	_	7.0nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N0H0Z	_	7.0nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N0J0Z	_	7.0nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N1G0Z	_	7.1nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N1H0Z	_	7.1nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N1J0Z□	_	7.1nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N2G0Z	_	7.2nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N2H0Z	_	7.2nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N2J0Z□	_	7.2nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N3G0Z	_	7.3nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N3H0Z	_	7.3nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N3J0Z	_	7.3nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N5G0Z	_	7.5nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N5H0Z	_	7.5nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N5J0Z□	_	7.5nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN8N2G0Z	_	8.2nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N2H0Z	_	8.2nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N2J0Z□	_	8.2nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N6G0Z	_	8.6nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N6H0Z	_	8.6nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N6J0Z□	_	8.6nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N7G0Z	_	8.7nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N7H0Z	_	8.7nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N7J0Z□	_	8.7nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N8G0Z	_	8.8nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N8H0Z	_	8.8nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N8J0Z□	_	8.8nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N9G0Z	_	8.9nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N9H0Z	_	8.9nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N9J0Z	_	8.9nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N0G0Z	_	9.0nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N0H0Z	_	9.0nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N0J0Z	_	9.0nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N1G0Z	_	9.1nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N1H0Z	_	9.1nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N1J0Z	_	9.1nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N2G0Z	_	9.2nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N2H0Z	_	9.2nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N2J0Z	_	9.2nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N3G0Z	_	9.3nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N3H0Z	_	9.3nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N3J0Z	mp rice not included). EE to 13	9.3nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



Part N	umber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN9N4G0Z□	_	9.4nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N4H0Z□	_	9.4nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N4J0Z□	_	9.4nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N5G0Z	_	9.5nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N5H0Z□	_	9.5nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N5J0Z	_	9.5nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N6G0Z□	_	9.6nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N6H0Z□	_	9.6nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N6J0Z□	_	9.6nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N7G0Z□	_	9.7nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N7H0Z	_	9.7nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N7J0Z□	_	9.7nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N8G0Z□	_	9.8nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N8H0Z	_	9.8nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N8J0Z	_	9.8nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N9G0Z□	_	9.9nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N9H0Z□	_	9.9nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N9J0Z	_	9.9nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN10NG0Z□	_	10nH ±2%	100MHz	25	250MHz	500mA	0.17Ω	5.5GHz
LQW15AN10NH0Z	_	10nH ±3%	100MHz	25	250MHz	500mA	0.17Ω	5.5GHz
LQW15AN10NJ0Z	_	10nH ±5%	100MHz	25	250MHz	500mA	0.17Ω	5.5GHz
LQW15AN11NG0Z□	_	11nH ±2%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN11NH0Z	_	11nH ±3%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN11NJ0Z□	_	11nH ±5%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN12NG0Z□	_	12nH ±2%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN12NH0Z	_	12nH ±3%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN12NJ0Z□	_	12nH ±5%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN13NG0Z□	_	13nH ±2%	100MHz	25	250MHz	430mA	0.21Ω	5.0GHz
LQW15AN13NH0Z□	_	13nH ±3%	100MHz	25	250MHz	430mA	0.21Ω	5.0GHz
LQW15AN13NJ0Z	_	13nH ±5%	100MHz	25	250MHz	430mA	0.21Ω	5.0GHz
LQW15AN15NG0Z	_	15nH ±2%	100MHz	30	250MHz	460mA	0.16Ω	5.0GHz
LQW15AN15NH0Z	_	15nH ±3%	100MHz	30	250MHz	460mA	0.16Ω	5.0GHz
LQW15AN15NJ0Z	_	15nH ±5%	100MHz	30	250MHz	460mA	0.16Ω	5.0GHz
LQW15AN16NG0Z	_	16nH ±2%	100MHz	25	250MHz	370mA	0.24Ω	4.5GHz
LQW15AN16NH0Z	_	16nH ±3%	100MHz	25	250MHz	370mA	0.24Ω	4.5GHz
LQW15AN16NJ0Z	_	16nH ±5%	100MHz	25	250MHz	370mA	0.24Ω	4.5GHz
LQW15AN18NG0Z□	_	18nH ±2%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN18NH0Z	_	18nH ±3%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN18NJ0Z□	_	18nH ±5%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN19NG0Z	_	19nH ±2%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN19NH0Z	_	19nH ±3%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN19NJ0Z□	_	19nH ±5%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN20NG0Z	_	20nH ±2%	100MHz	25	250MHz	370mA	0.27Ω	4.0GHz
LQW15AN20NH0Z	_	20nH ±3%	100MHz	25	250MHz	370mA	0.27Ω	4.0GHz
LQW15AN20NJ0Z	_	20nH ±5%	100MHz	25	250MHz	370mA	0.27Ω	4.0GHz
LQW15AN22NG0Z□	_	22nH ±2%	100MHz	25	250MHz	310mA	0.30Ω	4.0GHz
LQW15AN22NH0Z□	_	22nH ±3%	100MHz	25	250MHz	310mA	0.30Ω	4.0GHz
LQW15AN22NJ0Z	_	22nH ±5%	100MHz	25	250MHz	310mA	0.30Ω	4.0GHz
LQW15AN23NG0Z	_	23nH ±2%	100MHz	25	250MHz	310mA	0.30Ω	3.8GHz
LQW15AN23NH0Z	_	23nH ±3%	100MHz	25	250MHz	310mA	0.30Ω	3.8GHz
LQW15AN23NJ0Z	_	23nH ±5%	100MHz	25	250MHz	310mA	0.30Ω	3.8GHz
LQW15AN24NG0Z	_	24nH ±2%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
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Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering



Part N	lumber		Industance					
Infotainment	Powertrain/Safety	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN24NJ0Z	- ower trains safety	24nH ±5%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN27NG0Z	_	27nH ±2%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN27NH0Z	_	27nH ±3%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN27NJ0Z	_	27nH ±5%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN30NG0Z	_	30nH ±2%	100MHz	25	250MHz	270mA	0.52Ω	3.3GHz
LQW15AN30NH0Z	_	30nH ±2 %	100MHz	25	250MHz	270mA	0.58Ω	3.3GHz
LQW15AN30NJ0Z	_	30nH ±5%	100MHz	25	250MHz	270mA	0.58Ω	3.3GHz
LQW15AN33NG0Z	_	33nH ±2%	100MHz	25	250MHz	260mA	0.63Ω	3.2GHz
LQW15AN33NH0Z	_	33nH ±3%	100MHz	25	250MHz	260mA	0.63Ω	3.2GHz
LQW15AN33NJ0Z	_	33nH ±5%	100MHz	25	250MHz	260mA	0.63Ω	3.2GHz
LQW15AN36NG0Z		36nH ±2%	100MHz	25	250MHz	260mA	0.63Ω	3.1GHz
LQW15AN36NH0Z	_	36nH ±3%	100MHz	25	250MHz	260mA	0.63Ω	3.1GHz
LQW15AN36NJ0Z	_	36nH ±5%	100MHz	25	250MHz	260mA	0.63Ω	3.1GHz
LQW15AN39NG0Z	_	39nH ±2%	100MHz	25	250MHz	250mA	0.70Ω	3.1GHz
LQW15AN39NH0Z	_	39nH ±3%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN39NJ0Z	_	39nH ±5%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN40NG0Z	_	40nH ±2%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN40NH0Z	_	40nH ±3%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN40NJ0Z	_	40nH ±5%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN43NG0Z	_	43nH ±2%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN43NH0Z	_	43nH ±3%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN43NJ0Z	_	43nH ±5%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN47NG0Z□	_	47nH ±2%	100MHz	25	200MHz	210mA	1.08Ω	2.9GHz
LQW15AN47NH0Z□	_	47nH ±3%	100MHz	25	200MHz	210mA	1.08Ω	2.9GHz
LQW15AN47NJ0Z	_	47nH ±5%	100MHz	25	200MHz	210mA	1.08Ω	2.9GHz
LQW15AN51NG0Z	_	51nH ±2%	100MHz	25	200MHz	210mA	1.08Ω	2.85GHz
LQW15AN51NH0Z	_	51nH ±3%	100MHz	25	200MHz	210mA	1.08Ω	2.85GHz
LQW15AN51NJ0Z□	_	51nH ±5%	100MHz	25	200MHz	210mA	1.08Ω	2.85GHz
LQW15AN56NG0Z□	_	56nH ±2%	100MHz	25	200MHz	200mA	1.17Ω	2.8GHz
LQW15AN56NH0Z	_	56nH ±3%	100MHz	25	200MHz	200mA	1.17Ω	2.8GHz
LQW15AN56NJ0Z□	_	56nH ±5%	100MHz	25	200MHz	200mA	1.17Ω	2.8GHz
LQW15AN62NG0Z	_	62nH ±2%	100MHz	20	200MHz	145mA	1.82Ω	2.6GHz
LQW15AN62NH0Z	_	62nH ±3%	100MHz	20	200MHz	145mA	1.82Ω	2.6GHz
LQW15AN62NJ0Z□	_	62nH ±5%	100MHz	20	200MHz	145mA	1.82Ω	2.6GHz
LQW15AN68NG0Z	_	68nH ±2%	100MHz	20	200MHz	140mA	1.96Ω	2.5GHz
LQW15AN68NJ0Z□	_	68nH ±5%	100MHz	20	200MHz	140mA	1.96Ω	2.5GHz
LQW15AN72NG0Z□	_	72nH ±2%	100MHz	20	150MHz	135mA	2.10Ω	2.5GHz
LQW15AN72NJ0Z□	_	72nH ±5%	100MHz	20	150MHz	135mA	2.10Ω	2.5GHz
LQW15AN75NG0Z□	_	75nH ±2%	100MHz	20	150MHz	135mA	2.10Ω	2.4GHz
LQW15AN75NJ0Z□	_	75nH ±5%	100MHz	20	150MHz	135mA	2.10Ω	2.4GHz
LQW15AN82NG0Z□	_	82nH ±2%	100MHz	20	150MHz	130mA	2.24Ω	2.3GHz
LQW15AN82NJ0Z	_	82nH ±5%	100MHz	20	150MHz	130mA	2.24Ω	2.3GHz
LQW15AN91NG0Z□	_	91nH ±2%	100MHz	20	150MHz	125mA	2.38Ω	2.1GHz
LQW15AN91NJ0Z	_	91nH ±5%	100MHz	20	150MHz	125mA	2.38Ω	2.1GHz
LQW15ANR10J0Z	_	100nH ±5%	100MHz	20	150MHz	120mA	2.52Ω	1.5GHz
LQW15ANR12J0Z□	_	120nH ±5%	100MHz	20	150MHz	110mA	2.66Ω	1.0GHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

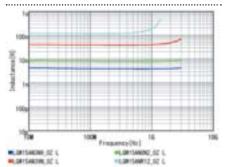
Only for reflow soldering

*S.R.F: Self Resonant Frequency

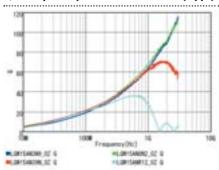
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Inductance-Frequency Characteristics (Typ.)



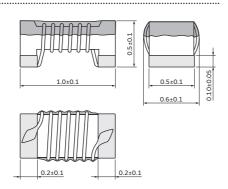
Q-Frequency Characteristics (Typ.)



● RF Inductors

LQW15AN_1Z Series 0402 (1005) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
В	Packing in Bulk	500

(in mm)

Rated Value (□: packaging code)

Part N	Part Number		Inductance	O (min)	O Took Francisco	Data d Course	May of DC Booletones	S.R.F* (min.)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	5.K.F" (MIN.)
LQW15AN1N3C1Z	_	1.3nH ±0.2nH	100MHz	20	250MHz	1200mA	0.017Ω	16GHz
LQW15AN1N3D1Z	_	1.3nH ±0.5nH	100MHz	20	250MHz	1200mA	0.017Ω	16GHz
LQW15AN1N4C1Z	_	1.4nH ±0.2nH	100MHz	25	250MHz	1100mA	0.019Ω	15GHz
LQW15AN1N4D1Z	-	1.4nH ±0.5nH	100MHz	25	250MHz	1100mA	0.019Ω	15GHz
LQW15AN2N2C1Z	_	2.2nH ±0.2nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N2D1Z	_	2.2nH ±0.5nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N3C1Z	-	2.3nH ±0.2nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N3D1Z	-	2.3nH ±0.5nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N4D1Z	-	2.4nH ±0.5nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN3N3D1Z	-	3.3nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	12GHz
LQW15AN3N4C1Z	-	3.4nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	12GHz
LQW15AN3N4D1Z□	-	3.4nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	12GHz
LQW15AN3N5C1Z□	_	3.5nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N5D1Z	_	3.5nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N6C1Z□	_	3.6nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N6D1Z□	_	3.6nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N8C1Z□	_	3.8nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	7GHz
LQW15AN3N8D1Z□	_	3.8nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	7GHz
LQW15AN3N9D1Z□	_	3.9nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	7GHz
LQW15AN4N0C1Z	_	4.0nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N0D1Z	_	4.0nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N2C1Z□	_	4.2nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N2D1Z□	_	4.2nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N7D1Z□	_	4.7nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N1C1Z	_	5.1nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N1D1Z□	_	5.1nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N2C1Z□	_	5.2nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N2D1Z□	-	5.2nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N3C1Z□	1	5.3nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N3D1Z	1	5.3nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N4C1Z	_	5.4nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N4D1Z	_	5.4nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering

*S.R.F: Self Resonant Frequency

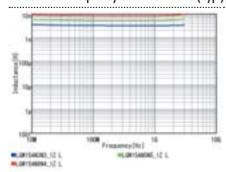


Part N	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN5N5C1Z	_	5.5nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N5D1Z	_	5.5nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N6C1Z	_	5.6nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N6D1Z	_	5.6nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N7C1Z	_	5.7nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N7D1Z	_	5.7nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N9C1Z	_	5.9nH ±0.2nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN5N9D1Z	_	5.9nH ±0.5nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N0C1Z	_	6.0nH ±0.2nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N0D1Z	_	6.0nH ±0.5nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N1C1Z	_	6.1nH ±0.2nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N1D1Z	_	6.1nH ±0.5nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN7N4C1Z	_	7.4nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N4D1Z	_	7.4nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N6C1Z	_	7.6nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N6D1Z	_	7.6nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N7C1Z	_	7.7nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N7D1Z	_	7.7nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N8C1Z	_	7.8nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N8D1Z	_	7.8nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N9C1Z	_	7.9nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN7N9D1Z	_	7.9nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N0C1Z	_	8.0nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N0D1Z	_	8.0nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N1C1Z	_	8.1nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N1D1Z	_	8.1nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N3C1Z	_	8.3nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N3D1Z	_	8.3nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N4C1Z	_	8.4nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N4D1Z	_	8.4nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz

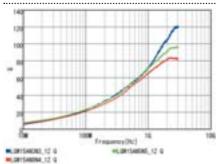
Operating temp.range (Self-temp.rise not included): -55 to 125°C

Only for reflow soldering

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)

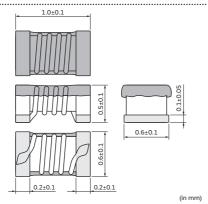


^{*}S.R.F: Self Resonant Frequency

RF Inductors

LQW15AN_8Z Series 0402 (1005) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part N	umber	Inductance	Inductance	O (min)	O Task Francisco	Data d Commant	Max. of DC Resistance	CDE*(min)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	5.R.F* (MIN.)
LQW15AN1N3C8Z	_	1.3nH ±0.2nH	100MHz	20	250MHz	3150mA	0.012Ω	18.0GHz
LQW15AN1N3D8Z	_	1.3nH ±0.5nH	100MHz	20	250MHz	3150mA	0.012Ω	18.0GHz
LQW15AN1N5C8Z	-	1.5nH ±0.2nH	100MHz	20	250MHz	2100mA	0.028Ω	18.0GHz
LQW15AN1N5D8Z	-	1.5nH ±0.5nH	100MHz	20	250MHz	2100mA	0.028Ω	18.0GHz
LQW15AN1N6C8Z	-	1.6nH ±0.2nH	100MHz	20	250MHz	1450mA	0.045Ω	18.0GHz
LQW15AN1N6D8Z	_	1.6nH ±0.5nH	100MHz	20	250MHz	1450mA	0.045Ω	18.0GHz
LQW15AN1N7C8Z	-	1.7nH ±0.2nH	100MHz	20	250MHz	1150mA	0.065Ω	18.0GHz
LQW15AN1N7D8Z	-	1.7nH ±0.5nH	100MHz	20	250MHz	1150mA	0.065Ω	18.0GHz
LQW15AN2N2B8Z	-	2.2nH ±0.1nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N2C8Z	-	2.2nH ±0.2nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N2D8Z	-	2.2nH ±0.5nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N2G8Z	I	2.2nH ±2%	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3B8Z□	_	2.3nH ±0.1nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3C8Z	_	2.3nH ±0.2nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3D8Z	_	2.3nH ±0.5nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3G8Z	_	2.3nH ±2%	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4B8Z	_	2.4nH ±0.1nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4C8Z	_	2.4nH ±0.2nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4D8Z	_	2.4nH ±0.5nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4G8Z	_	2.4nH ±2%	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N5B8Z	_	2.5nH ±0.1nH	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N5C8Z	_	2.5nH ±0.2nH	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N5D8Z	_	2.5nH ±0.5nH	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N5G8Z	_	2.5nH ±2%	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N6B8Z□	_	2.6nH ±0.1nH	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N6C8Z□	_	2.6nH ±0.2nH	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N6D8Z□	_	2.6nH ±0.5nH	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N6G8Z	1	2.6nH ±2%	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N7B8Z□	1	2.7nH ±0.1nH	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz
LQW15AN2N7C8Z		2.7nH ±0.2nH	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz
LQW15AN2N7D8Z□	_	2.7nH ±0.5nH	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."



^{*}S.R.F: Self Resonant Frequency

Part N	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN2N7G8Z	_	2.7nH ±2%	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz
LQW15AN2N8B8Z	_	2.8nH ±0.1nH	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N8C8Z	_	2.8nH ±0.2nH	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N8D8Z	_	2.8nH ±0.5nH	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N8G8Z	_	2.8nH ±2%	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N9B8Z	_	2.9nH ±0.1nH	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN2N9C8Z	_	2.9nH ±0.2nH	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN2N9D8Z	_	2.9nH ±0.5nH	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN2N9G8Z	_	2.9nH ±2%	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN3N0B8Z	_	3.0nH ±0.1nH	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N0C8Z	_	3.0nH ±0.2nH	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N0D8Z	_	3.0nH ±0.5nH	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N0G8Z	_	3.0nH ±2%	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N3B8Z	_	3.3nH ±0.1nH	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N3C8Z	_	3.3nH ±0.2nH	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N3D8Z	_	3.3nH ±0.5nH	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N3G8Z	_	3.3nH ±2%	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N4B8Z	_	3.4nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N4C8Z	_	3.4nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N4D8Z	_	3.4nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N4G8Z	_	3.4nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5B8Z□	_	3.5nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5C8Z	_	3.5nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5D8Z	_	3.5nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5G8Z	_	3.5nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6B8Z	_	3.6nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6C8Z□	_	3.6nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6D8Z□	_	3.6nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6G8Z□	_	3.6nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7B8Z	_	3.7nH ±0.1nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7C8Z	_	3.7nH ±0.2nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7D8Z	_	3.7nH ±0.5nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7G8Z	_	3.7nH ±2%	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8B8Z	_	3.8nH ±0.1nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8C8Z	_	3.8nH ±0.2nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8D8Z	_	3.8nH ±0.5nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8G8Z	_	3.8nH ±2%	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9B8Z	_	3.9nH ±0.1nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9C8Z	_	3.9nH ±0.2nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9D8Z	_	3.9nH ±0.5nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9G8Z	_	3.9nH ±2%	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0B8Z	_	4.0nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0C8Z	_	4.0nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0D8Z	_	4.0nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0G8Z	_	4.0nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N1B8Z	_	4.1nH ±0.1nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N1C8Z	_	4.1nH ±0.2nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N1D8Z	_	4.1nH ±0.5nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N1G8Z	_	4.1nH ±2%	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N2B8Z	_	4.2nH ±0.1nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N2C8Z	_	4.2nH ±0.2nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz

Operating temp.range (Self-temp.rise not included): -55 to 125 $^{\circ}\text{C}$

Only for reflow soldering

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."





^{*}S.R.F: Self Resonant Frequency

	lumber							
Infotainment	Powertrain/Safety	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN4N2D8Z	Power train/ Safety	4.2nH ±0.5nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N2G8Z	_	4.2nH ±2%	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3B8Z	_	4.3nH ±0.1nH	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3C8Z	_	4.3nH ±0.2nH	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3D8Z	_	4.3nH ±0.5nH	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3G8Z	_	4.3nH ±2%	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N4B8Z	_	4.4nH ±0.1nH	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N4C8Z		4.4nH ±0.2nH	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N4D8Z		4.4nH ±0.5nH	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N4G8Z		4.4nH ±2%	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N5B8Z		4.5nH ±0.1nH	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N5C8Z		4.5nH ±0.2nH	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N5D8Z	_	4.5nH ±0.5nH	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N5G8Z	_	4.5nH ±0.5nH	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
	_							
LQW15AN4N6B8Z LQW15AN4N6C8Z	_	4.6nH ±0.1nH 4.6nH ±0.2nH	100MHz 100MHz	32	250MHz 250MHz	1450mA 1450mA	0.060Ω	9.6GHz 9.6GHz
	_					1450mA		
LQW15AN4N6D8Z	_	4.6nH ±0.5nH	100MHz	32	250MHz		0.060Ω	9.6GHz
LQW15AN4N6G8Z	_	4.6nH ±2%	100MHz	32	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N7B8Z	_	4.7nH ±0.1nH	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N7C8Z	_	4.7nH ±0.2nH	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N7D8Z	_	4.7nH ±0.5nH	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N7G8Z	_	4.7nH ±2%	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8B8Z	_	4.8nH ±0.1nH	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8C8Z	_	4.8nH ±0.2nH	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8D8Z	_	4.8nH ±0.5nH	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8G8Z	_	4.8nH ±2%	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9B8Z	_	4.9nH ±0.1nH	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9C8Z	_	4.9nH ±0.2nH	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9D8Z	_	4.9nH ±0.5nH	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9G8Z	_	4.9nH ±2%	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN5N0B8Z	_	5.0nH ±0.1nH	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N0C8Z	_	5.0nH ±0.2nH	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N0D8Z	_	5.0nH ±0.5nH	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N0G8Z	_	5.0nH ±2%	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N1B8Z	_	5.1nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N1C8Z	_	5.1nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N1D8Z	_	5.1nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N1G8Z	_	5.1nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2B8Z	_	5.2nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2C8Z	_	5.2nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2D8Z	_	5.2nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2G8Z	_	5.2nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3B8Z	_	5.3nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3C8Z	_	5.3nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3D8Z	_	5.3nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3G8Z	_	5.3nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4B8Z	_	5.4nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4C8Z	_	5.4nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4D8Z	_	5.4nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4G8Z	_	5.4nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N5B8Z	_	5.5nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz

Operating temp.range (Self-temp.rise not included): -55 to 125 $^{\circ}\text{C}$

Only for reflow soldering



^{*}S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."

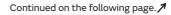
Part N	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN5N5C8Z	_	5.5nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N5D8Z	_	5.5nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N5G8Z	_	5.5nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6B8Z	_	5.6nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6C8Z	_	5.6nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6D8Z	_	5.6nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6G8Z	_	5.6nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7B8Z	_	5.7nH ±0.1nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7C8Z	_	5.7nH ±0.2nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7D8Z	_	5.7nH ±0.5nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7G8Z	_	5.7nH ±2%	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8B8Z	_	5.8nH ±0.1nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8C8Z	_	5.8nH ±0.2nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8D8Z	_	5.8nH ±0.5nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8G8Z	_	5.8nH ±2%	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9B8Z	_	5.9nH ±0.1nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9C8Z	_	5.9nH ±0.2nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9D8Z	_	5.9nH ±0.5nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9G8Z	_	5.9nH ±2%	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN6N0B8Z	_	6.0nH ±0.1nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N0C8Z	_	6.0nH ±0.2nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N0D8Z	_	6.0nH ±0.5nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N0G8Z	_	6.0nH ±2%	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1B8Z	_	6.1nH ±0.1nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1C8Z	_	6.1nH ±0.2nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1D8Z	_	6.1nH ±0.5nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1G8Z	_	6.1nH ±2%	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2B8Z	_	6.2nH ±0.1nH	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2C8Z	_	6.2nH ±0.2nH	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2D8Z	_	6.2nH ±0.5nH	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2G8Z	_	6.2nH ±2%	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N3G8Z	_	6.3nH ±2%	100MHz	32	250MHz	1600mA	0.057Ω	7.8GHz
LQW15AN6N3J8Z□	_	6.3nH ±5%	100MHz	32	250MHz	1600mA	0.057Ω	7.8GHz
LQW15AN6N4G8Z	_	6.4nH ±2%	100MHz	33	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N4J8Z□	_	6.4nH ±5%	100MHz	33	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N5G8Z	_	6.5nH ±2%	100MHz	32	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N5J8Z	_	6.5nH ±5%	100MHz	32	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N6G8Z	_	6.6nH ±2%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N6J8Z	_	6.6nH ±5%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N7G8Z	_	6.7nH ±2%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N7J8Z□	_	6.7nH ±5%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N8G8Z	_	6.8nH ±2%	100MHz	30	250MHz	1450mA	0.068Ω	7.0GHz
LQW15AN6N8J8Z	_	6.8nH ±5%	100MHz	30	250MHz	1450mA	0.068Ω	7.0GHz
LQW15AN6N9G8Z	_	6.9nH ±2%	100MHz	32	250MHz	1420mA	0.069Ω	8.5GHz
LQW15AN6N9J8Z	_	6.9nH ±5%	100MHz	32	250MHz	1420mA	0.069Ω	8.5GHz
LQW15AN7N0G8Z	_	7.0nH ±2%	100MHz	33	250MHz	1420mA	0.069Ω	8.0GHz
LQW15AN7N0J8Z	_	7.0nH ±5%	100MHz	33	250MHz	1420mA	0.069Ω	8.0GHz
LQW15AN7N1G8Z	_	7.1nH ±2%	100MHz	32	250MHz	1420mA	0.069Ω	7.0GHz
LQW15AN7N1J8Z	_	7.1nH ±5%	100MHz	32	250MHz	1420mA	0.069Ω	7.0GHz
LQW15AN7N2G8Z	_	7.2nH ±2%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N2J8Z□	_	7.2nH ±5%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz

Operating temp.range (Self-temp.rise not included): -55 to 125 $^{\circ}\text{C}$

Only for reflow soldering

*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."





Part N	lumber							
	Powertrain/Safety	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
Infotainment	· · · · · · · · · · · · · · · · · · ·	70.11.00/		2.2	250141	1700 1	0.0500	7.0011
LQW15AN7N3G8Z	_	7.3nH ±2%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N3J8Z	_	7.3nH ±5%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N4G8Z	_	7.4nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N4J8Z	_	7.4nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N5G8Z	_	7.5nH ±2%	100MHz	35	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N5J8Z	_	7.5nH ±5%	100MHz	35	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N6G8Z	_	7.6nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N6J8Z	_	7.6nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N7G8Z	_	7.7nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N7J8Z	_	7.7nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N8G8Z	_	7.8nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N8J8Z	_	7.8nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N9G8Z	_	7.9nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N9J8Z□	_	7.9nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN8N0G8Z	_	8.0nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN8N0J8Z	_	8.0nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN8N1G8Z	_	8.1nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N1J8Z	_	8.1nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N2G8Z	_	8.2nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N2J8Z	_	8.2nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N3G8Z	_	8.3nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N3J8Z□	_	8.3nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N4G8Z	_	8.4nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N4J8Z□	_	8.4nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N5G8Z	_	8.5nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N5J8Z□	_	8.5nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N6G8Z	_	8.6nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N6J8Z	_	8.6nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N7G8Z	_	8.7nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N7J8Z	_	8.7nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N8G8Z	_	8.8nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N8J8Z	_	8.8nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N9G8Z	_	8.9nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N9J8Z	_	8.9nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN9N0G8Z	_	9.0nH ±2%	100MHz	30	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN9N0J8Z	_	9.0nH ±5%	100MHz	30	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN9N1G8Z	_	9.1nH ±2%	100MHz	32	250MHz	1400mA	0.080Ω	6.5GHz
LQW15AN9N1J8Z□	_	9.1nH ±5%	100MHz	32	250MHz	1400mA	0.080Ω	6.5GHz
LQW15AN9N2G8Z	_	9.2nH ±2%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N2J8Z□	_	9.2nH ±5%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N3G8Z	_	9.3nH ±2%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N3J8Z□	_	9.3nH ±5%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N4G8Z	_	9.4nH ±2%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N4J8Z□	_	9.4nH ±5%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N5G8Z	_	9.5nH ±2%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N5J8Z□	_	9.5nH ±5%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N6G8Z	_	9.6nH ±2%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N6J8Z	_	9.6nH ±5%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N7G8Z	_	9.7nH ±2%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N7J8Z	_	9.7nH ±5%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N8G8Z	_	9.8nH ±2%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz
		J.J/II 1 ±Z /0	1001 1112	J-7	2301 11 12	1 /OOMA	3.0011/	

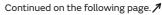
Operating temp.range (Self-temp.rise not included): -55 to 125°C

Only for reflow soldering

*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."

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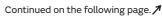
Port N	lumber							
Infotainment	Powertrain/Safety	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW15AN9N8J8Z	Power train/ Safety	9.8nH ±5%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N9G8Z	_	9.9nH ±2%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N9J8Z	_	9.9nH ±5%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN10NG8Z	_	10nH ±2%	100MHz	31	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN10NJ8Z	_	10nH ±5%	100MHz	31	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN11NG8Z	_	11nH ±2%	100MHz	32	250MHz	1400mA	0.083Ω	6.2GHz
LQW15AN11NJ8Z	_	11nH ±5%	100MHz	32	250MHz	1400mA	0.083Ω	6.2GHz
LQW15AN12NG8Z		12nH ±2%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN12NJ8Z		12nH ±5%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN13NG8Z		13nH ±2%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN13NJ8Z		13nH ±5%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN14NG8Z		14nH ±2%	100MHz	31	250MHz	1150mA	0.111Ω	5.2GHz
LQW15AN14NJ8Z	_	14nH ±5%	100MHz	31	250MHz	1150mA	0.111Ω	5.2GHz
	_	15nH ±2%					-	
LQW15AN15NG8Z LQW15AN15NJ8Z	_		100MHz	31	250MHz	1150mA 1150mA	0.114Ω	5.5GHz 5.5GHz
LQW15AN16NG8Z	_	15nH ±5% 16nH ±2%	100MHz 100MHz	31	250MHz 250MHz	1000mA	0.114Ω	5.5GHz 5.0GHz
	_					1000mA		
LQW15AN16NJ8Z	_	16nH ±5%	100MHz	31	250MHz		0.126Ω	5.0GHz
LQW15AN17NG8Z	_	17nH ±2%	100MHz	30	250MHz	1000mA	0.126Ω	5.0GHz
LQW15AN17NJ8Z	_	17nH ±5%	100MHz	30	250MHz	1000mA	0.126Ω	5.0GHz
LQW15AN18NG8Z	_	18nH ±2%	100MHz	30	250MHz	1050mA	0.130Ω	5.2GHz
LQW15AN18NJ8Z	_	18nH ±5%	100MHz	30	250MHz	1050mA	0.130Ω	5.2GHz
LQW15AN19NG8Z	_	19nH ±2%	100MHz	30	250MHz	920mA	0.156Ω	5.0GHz
LQW15AN19NJ8Z	_	19nH ±5%	100MHz	30	250MHz	920mA	0.156Ω	5.0GHz
LQW15AN20NG8Z	_	20nH ±2%	100MHz	30	250MHz	800mA	0.186Ω	4.5GHz
LQW15AN20NJ8Z	_	20nH ±5%	100MHz	30	250MHz	800mA	0.186Ω	4.5GHz
LQW15AN21NG8Z	_	21nH ±2%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN21NJ8Z	_	21nH ±5%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN22NG8Z	_	22nH ±2%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN22NJ8Z	_	22nH ±5%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN23NG8Z	_	23nH ±2%	100MHz	29	250MHz	760mA	0.201Ω	4.5GHz
LQW15AN23NJ8Z	_	23nH ±5%	100MHz	29	250MHz	760mA	0.201Ω	4.5GHz
LQW15AN24NG8Z	_	24nH ±2%	100MHz	31	250MHz	770mA	0.212Ω	4.0GHz
LQW15AN24NJ8Z	_	24nH ±5%	100MHz	31	250MHz	770mA	0.212Ω	4.0GHz
LQW15AN25NG8Z	_	25nH ±2%	100MHz	31	250MHz	750mA	0.221Ω	4.1GHz
LQW15AN25NJ8Z	_	25nH ±5%	100MHz	31	250MHz	750mA	0.221Ω	4.1GHz
LQW15AN26NG8Z	_	26nH ±2%	100MHz	29	250MHz	720mA	0.282Ω	4.1GHz
LQW15AN26NJ8Z	_	26nH ±5%	100MHz	29	250MHz	720mA	0.282Ω	4.1GHz
LQW15AN27NG8Z	_	27nH ±2%	100MHz	30	250MHz	680mA	0.288Ω	4.0GHz
LQW15AN27NJ8Z	_	27nH ±5%	100MHz	30	250MHz	680mA	0.288Ω	4.0GHz
LQW15AN30NG8Z	_	30nH ±2%	100MHz	30	250MHz	660mA	0.309Ω	3.8GHz
LQW15AN30NJ8Z	_	30nH ±5%	100MHz	30	250MHz	660mA	0.309Ω	3.8GHz
LQW15AN33NG8Z	_	33nH ±2%	100MHz	30	250MHz	620mA	0.336Ω	3.6GHz
LQW15AN33NJ8Z	_	33nH ±5%	100MHz	30	250MHz	620mA	0.336Ω	3.6GHz
LQW15AN36NG8Z	_	36nH ±2%	100MHz	30	250MHz	540mA	0.431Ω	3.5GHz
LQW15AN36NJ8Z	_	36nH ±5%	100MHz	30	250MHz	540mA	0.431Ω	3.5GHz
LQW15AN39NG8Z	_	39nH ±2%	100MHz	28	250MHz	530mA	0.456Ω	3.4GHz
LQW15AN39NJ8Z	_	39nH ±5%	100MHz	28	250MHz	530mA	0.456Ω	3.4GHz
LQW15AN43NG8Z	_	43nH ±2%	100MHz	30	250MHz	515mA	0.516Ω	3.4GHz
LQW15AN43NJ8Z	_	43nH ±5%	100MHz	30	250MHz	515mA	0.516Ω	3.4GHz
LQW15AN47NG8Z	_	47nH ±2%	100MHz	25	200MHz	440mA	0.648Ω	3.2GHz
LQW15AN47NJ8Z□	_	47nH ±5%	100MHz	25	200MHz	440mA	0.648Ω	3.2GHz

Operating temp.range (Self-temp.rise not included): -55 to 125 $^{\circ}\text{C}$

Only for reflow soldering

*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."





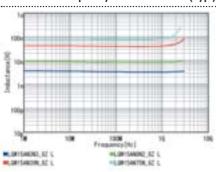
Part N	lumber	Industria	Inductance	O (min)	Q Test Frequency	Data d Command	Max. of DC Resistance	CDF* (min.)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q resurrequency	Rated Current	Max. of DC Resistance	3.R.F" (MIN.)
LQW15AN51NG8Z	_	51nH ±2%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN51NJ8Z□	_	51nH ±5%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN53NG8Z	_	53nH ±2%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN53NJ8Z□	_	53nH ±5%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN56NG8Z	_	56nH ±2%	100MHz	25	200MHz	340mA	0.996Ω	2.9GHz
LQW15AN56NJ8Z□	_	56nH ±5%	100MHz	25	200MHz	340mA	0.996Ω	2.9GHz
LQW15AN68NG8Z	_	68nH ±2%	100MHz	25	200MHz	320mA	1.128Ω	2.5GHz
LQW15AN68NJ8Z□	_	68nH ±5%	100MHz	25	200MHz	320mA	1.128Ω	2.5GHz
LQW15AN75NG8Z	_	75nH ±2%	100MHz	25	200MHz	320mA	1.224Ω	2.4GHz
LQW15AN75NJ8Z	_	75nH ±5%	100MHz	25	200MHz	320mA	1.224Ω	2.4GHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

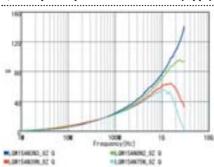
Only for reflow soldering

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)

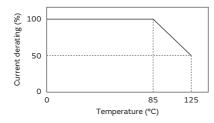


Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.

Derating of Rated Current

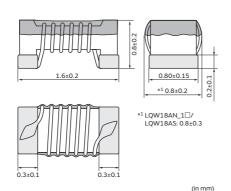


^{*}S.R.F: Self Resonant Frequency

RF Inductors

LQW18AN_0Z Series 0603 (1608) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part N	umber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW18AN2N2D0Z	_	2.2nH ±0.5nH	100MHz	16	250MHz	700mA	0.042Ω	6000MHz
LQW18AN3N6C0Z	-	3.6nH ±0.2nH	100MHz	25	250MHz	850mA	0.059Ω	6000MHz
LQW18AN3N6D0Z	-	3.6nH ±0.5nH	100MHz	25	250MHz	850mA	0.059Ω	6000MHz
LQW18AN3N9C0Z	_	3.9nH ±0.2nH	100MHz	35	250MHz	850mA	0.059Ω	6000MHz
LQW18AN3N9D0Z	_	3.9nH ±0.5nH	100MHz	35	250MHz	850mA	0.059Ω	6000MHz
LQW18AN4N3C0Z	_	4.3nH ±0.2nH	100MHz	35	250MHz	850mA	0.059Ω	6000MHz
LQW18AN4N3D0Z	_	4.3nH ±0.5nH	100MHz	35	250MHz	850mA	0.059Ω	6000MHz
LQW18AN4N7D0Z	_	4.7nH ±0.5nH	100MHz	35	250MHz	850mA	0.059Ω	6000MHz
LQW18AN5N6C0Z	_	5.6nH ±0.2nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN5N6D0Z	_	5.6nH ±0.5nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN6N2C0Z	-	6.2nH ±0.2nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN6N2D0Z	I	6.2nH ±0.5nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN6N8C0Z	_	6.8nH ±0.2nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN6N8D0Z	_	6.8nH ±0.5nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN7N5C0Z	_	7.5nH ±0.2nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN7N5D0Z	1	7.5nH ±0.5nH	100MHz	35	250MHz	750mA	0.082Ω	6000MHz
LQW18AN8N2C0Z	1	8.2nH ±0.2nH	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN8N2D0Z	-	8.2nH ±0.5nH	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN8N7C0Z	-	8.7nH ±0.2nH	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN8N7D0Z	-	8.7nH ±0.5nH	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN9N1C0Z	_	9.1nH ±0.2nH	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN9N1D0Z	_	9.1nH ±0.5nH	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN9N5D0Z	_	9.5nH ±0.5nH	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN10NG0Z	_	10nH ±2%	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN10NJ0Z	_	10nH ±5%	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN11NG0Z	_	11nH ±2%	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN11NJ0Z□	_	11nH ±5%	100MHz	35	250MHz	650mA	0.11Ω	6000MHz
LQW18AN12NG0Z□	_	12nH ±2%	100MHz	35	250MHz	600mA	0.13Ω	6000MHz
LQW18AN12NJ0Z□	_	12nH ±5%	100MHz	35	250MHz	600mA	0.13Ω	6000MHz
LQW18AN13NG0Z	_	13nH ±2%	100MHz	35	250MHz	600mA	0.13Ω	6000MHz
LQW18AN13NJ0Z□	_	13nH ±5%	100MHz	35	250MHz	600mA	0.13Ω	6000MHz
LQW18AN15NG0Z	_	15nH ±2%	100MHz	40	250MHz	600mA	0.13Ω	6000MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

Only for reflow soldering

*S.R.F: Self Resonant Frequency



Part N	lumber		Inductance					6.0.0
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW18AN15NJ0Z□	_	15nH ±5%	100MHz	40	250MHz	600mA	0.13Ω	6000MHz
LQW18AN16NG0Z	_	16nH ±2%	100MHz	40	250MHz	550mA	0.16Ω	5500MHz
LQW18AN16NJ0Z	_	16nH ±5%	100MHz	40	250MHz	550mA	0.16Ω	5500MHz
LQW18AN18NG0Z	_	18nH ±2%	100MHz	40	250MHz	550mA	0.16Ω	5500MHz
LQW18AN18NJ0Z	_	18nH ±5%	100MHz	40	250MHz	550mA	0.16Ω	5500MHz
LQW18AN20NG0Z	_	20nH ±2%	100MHz	40	250MHz	550mA	0.16Ω	4900MHz
LQW18AN20NJ0Z	_	20nH ±5%	100MHz	40	250MHz	550mA	0.16Ω	4900MHz
LQW18AN22NG0Z		22nH ±2%	100MHz	40	250MHz	500mA	0.17Ω	4600MHz
LQW18AN22NJ0Z	_	22nH ±5%	100MHz	40	250MHz	500mA	0.17Ω	4600MHz
LQW18AN24NG0Z	_	24nH ±2%	100MHz	40	250MHz	500mA	0.21Ω	3800MHz
LQW18AN24NJ0Z	_	24nH ±5%	100MHz	40	250MHz	500mA	0.21Ω	3800MHz
	_							
LQW18AN27NG0Z	_	27nH ±2%	100MHz	40	250MHz	440mA	0.21Ω	3700MHz
LQW18AN27NJ0Z	_	27nH ±5%	100MHz	40	250MHz	440mA	0.21Ω	3700MHz
LQW18AN30NG0Z	_	30nH ±2%	100MHz	40	250MHz	420mA	0.23Ω	3300MHz
LQW18AN30NJ0Z	_	30nH ±5%	100MHz	40	250MHz	420mA	0.23Ω	3300MHz
LQW18AN33NG0Z	_	33nH ±2%	100MHz	40	250MHz	420mA	0.23Ω	3200MHz
LQW18AN33NJ0Z	_	33nH ±5%	100MHz	40	250MHz	420mA	0.23Ω	3200MHz
LQW18AN36NG0Z	_	36nH ±2%	100MHz	40	250MHz	400mA	0.26Ω	2900MHz
LQW18AN36NJ0Z□	_	36nH ±5%	100MHz	40	250MHz	400mA	0.26Ω	2900MHz
LQW18AN39NG0Z	_	39nH ±2%	100MHz	40	250MHz	400mA	0.26Ω	2800MHz
LQW18AN39NJ0Z□	_	39nH ±5%	100MHz	40	250MHz	400mA	0.26Ω	2800MHz
LQW18AN43NG0Z	_	43nH ±2%	100MHz	40	200MHz	380mA	0.29Ω	2700MHz
LQW18AN43NJ0Z□	_	43nH ±5%	100MHz	40	200MHz	380mA	0.29Ω	2700MHz
LQW18AN47NG0Z	_	47nH ±2%	100MHz	38	200MHz	380mA	0.29Ω	2600MHz
LQW18AN47NJ0Z□	_	47nH ±5%	100MHz	38	200MHz	380mA	0.29Ω	2600MHz
LQW18AN51NG0Z	_	51nH ±2%	100MHz	38	200MHz	370mA	0.33Ω	2500MHz
LQW18AN51NJ0Z□	_	51nH ±5%	100MHz	38	200MHz	370mA	0.33Ω	2500MHz
LQW18AN56NG0Z□	_	56nH ±2%	100MHz	38	200MHz	360mA	0.35Ω	2400MHz
LQW18AN56NJ0Z□	_	56nH ±5%	100MHz	38	200MHz	360mA	0.35Ω	2400MHz
LQW18AN62NG0Z	_	62nH ±2%	100MHz	38	200MHz	280mA	0.51Ω	2300MHz
LQW18AN62NJ0Z□	_	62nH ±5%	100MHz	38	200MHz	280mA	0.51Ω	2300MHz
LQW18AN68NG0Z□	_	68nH ±2%	100MHz	38	200MHz	340mA	0.38Ω	2200MHz
LQW18AN68NJ0Z□	_	68nH ±5%	100MHz	38	200MHz	340mA	0.38Ω	2200MHz
LQW18AN72NG0Z	_	72nH ±2%	100MHz	34	150MHz	270mA	0.56Ω	2100MHz
LQW18AN72NJ0Z□	_	72nH ±5%	100MHz	34	150MHz	270mA	0.56Ω	2100MHz
LQW18AN75NG0Z	_	75nH ±2%	100MHz	34	150MHz	270mA	0.56Ω	2050MHz
LQW18AN75NJ0Z□	_	75nH ±5%	100MHz	34	150MHz	270mA	0.56Ω	2050MHz
LQW18AN82NG0Z	_	82nH ±2%	100MHz	34	150MHz	250mA	0.60Ω	2000MHz
LQW18AN82NJ0Z	_	82nH ±5%	100MHz	34	150MHz	250mA	0.60Ω	2000MHz
LQW18AN91NG0Z□	_	91nH ±2%	100MHz	34	150MHz	230mA	0.64Ω	1900MHz
LQW18AN91NJ0Z	_	91nH ±5%	100MHz	34	150MHz	230mA	0.64Ω	1900MHz
LQW18ANR10G0Z	_	100nH ±2%	100MHz	34	150MHz	220mA	0.68Ω	1800MHz
LQW18ANR10J0Z	_	100nH ±5%	100MHz	34	150MHz	220mA	0.68Ω	1800MHz
LQW18ANR11G0Z	_	110nH ±2%	100MHz	32	150MHz	200mA	1.2Ω	1700MHz
LQW18ANR11J0Z	_	110nH ±5%	100MHz	32	150MHz	200mA	1.2Ω	1700MHz
LQW18ANR12G0Z	_	120nH ±2%	100MHz	32	150MHz	180mA	1.3Ω	1600MHz
LQW18ANR12J0Z	_	120nH ±5%	100MHz	32	150MHz	180mA	1.3Ω	1600MHz
LQW18ANR13G0Z	_	130nH ±2%	100MHz	32	150MHz	170mA	1.4Ω	1450MHz
LQW18ANR13J0Z	_	130nH ±5%	100MHz	32	150MHz	170mA	1.4Ω	1450MHz
LQW18ANR15G0Z	_	150nH ±2%	100MHz	32	150MHz	160mA	1.5Ω	1400MHz
LQW18ANR15J0Z	_	150nH ±5%	100MHz	32	150MHz	160mA	1.5Ω	1400MHz
LQW18ANR16G0Z	_	160nH ±2%	100MHz	32	150MHz	150mA	2.1Ω	1350MHz
LQW18ANR16J0Z	_	160nH ±5%	100MHz	32	150MHz	150mA	2.1Ω	1350MHz
TAM TOWNEY TOUCH	_	100111111111111111111111111111111111111	1001-1112	J2	1301-1112	1301114	2.11	100011012

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering

*S.R.F: Self Resonant Frequency



Part N	lumber	Inductance	Inductance	O (min)	O Took Francisco	Dated Comment	May of DC Desistance	CDF*(i-)
Infotainment	Powertrain/Safety	inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	J.N.1 (11111.)
LQW18ANR18G0Z	_	180nH ±2%	100MHz	25	100MHz	140mA	2.2Ω	1300MHz
LQW18ANR18J0Z	_	180nH ±5%	100MHz	25	100MHz	140mA	2.2Ω	1300MHz
LQW18ANR20G0Z	_	200nH ±2%	100MHz	25	100MHz	120mA	2.4Ω	1250MHz
LQW18ANR20J0Z□	_	200nH ±5%	100MHz	25	100MHz	120mA	2.4Ω	1250MHz
LQW18ANR22G0Z	_	220nH ±2%	100MHz	25	100MHz	120mA	2.5Ω	1200MHz
LQW18ANR22J0Z□	_	220nH ±5%	100MHz	25	100MHz	120mA	2.5Ω	1200MHz
LQW18ANR27G0Z	_	270nH ±2%	100MHz	30	100MHz	110mA	3.4Ω	960MHz
LQW18ANR27J0Z□	_	270nH ±5%	100MHz	30	100MHz	110mA	3.4Ω	960MHz
LQW18ANR33G0Z	_	330nH ±2%	100MHz	30	100MHz	85mA	5.5Ω	800MHz
LQW18ANR33J0Z□	_	330nH ±5%	100MHz	30	100MHz	85mA	5.5Ω	800MHz
LQW18ANR39G0Z	_	390nH ±2%	100MHz	30	100MHz	80mA	6.2Ω	800MHz
LQW18ANR39J0Z□	_	390nH ±5%	100MHz	30	100MHz	80mA	6.2Ω	800MHz
LQW18ANR47G0Z	_	470nH ±2%	100MHz	30	100MHz	75mA	7.0Ω	700MHz
LQW18ANR47J0Z□	_	470nH ±5%	100MHz	30	100MHz	75mA	7.0Ω	700MHz

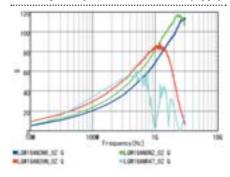
Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering

*S.R.F: Self Resonant Frequency

Inductance-Frequency Characteristics (Typ.)

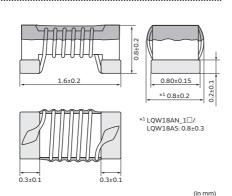
Q-Frequency Characteristics (Typ.)



■ RF Inductors

LQW18AN_1Z Series 0603 (1608) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
В	Packing in Bulk	500

Rated Value (□: packaging code)

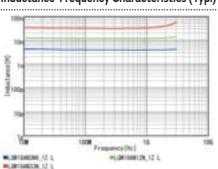
Part N	umber	- Inductance	Inductance	O (min)	O Took Francisco	Dated Comment	Max. of DC Resistance	S.P.E* (min.)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	5.K.F^ (MIN.)
LQW18AN2N2D1Z	_	2.2nH ±0.5nH	100MHz	25	250MHz	1400mA	0.018Ω	18000MHz
LQW18AN3N9C1Z	_	3.9nH ±0.2nH	100MHz	38	250MHz	1000mA	0.032Ω	11000MHz
LQW18AN3N9D1Z	_	3.9nH ±0.5nH	100MHz	38	250MHz	1000mA	0.032Ω	11000MHz
LQW18AN5N6D1Z	_	5.6nH ±0.5nH	100MHz	38	250MHz	900mA	0.045Ω	10000MHz
LQW18AN6N8C1Z	_	6.8nH ±0.2nH	100MHz	38	250MHz	900mA	0.045Ω	7000MHz
LQW18AN6N8D1Z	_	6.8nH ±0.5nH	100MHz	38	250MHz	900mA	0.045Ω	7000MHz
LQW18AN8N2D1Z	_	8.2nH ±0.5nH	100MHz	38	250MHz	800mA	0.058Ω	7000MHz
LQW18AN10NG1Z	_	10nH ±2%	100MHz	38	250MHz	800mA	0.058Ω	5000MHz
LQW18AN10NJ1Z□	_	10nH ±5%	100MHz	38	250MHz	800mA	0.058Ω	5000MHz
LQW18AN12NG1Z	_	12nH ±2%	100MHz	38	250MHz	750mA	0.071Ω	5000MHz
LQW18AN12NJ1Z□	_	12nH ±5%	100MHz	38	250MHz	750mA	0.071Ω	5000MHz
LQW18AN15NJ1Z□	_	15nH ±5%	100MHz	42	250MHz	700mA	0.085Ω	4500MHz
LQW18AN18NG1Z□	_	18nH ±2%	100MHz	42	250MHz	700mA	0.085Ω	3500MHz
LQW18AN18NJ1Z□	_	18nH ±5%	100MHz	42	250MHz	700mA	0.085Ω	3500MHz
LQW18AN22NG1Z□	_	22nH ±2%	100MHz	42	250MHz	640mA	0.099Ω	3200MHz
LQW18AN22NJ1Z□	_	22nH ±5%	100MHz	42	250MHz	640mA	0.099Ω	3200MHz
LQW18AN27NG1Z	_	27nH ±2%	100MHz	42	250MHz	590mA	0.116Ω	2800MHz
LQW18AN27NJ1Z□	_	27nH ±5%	100MHz	42	250MHz	590mA	0.116Ω	2800MHz
LQW18AN33NJ1Z□	_	33nH ±5%	100MHz	42	250MHz	550mA	0.132Ω	2500MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

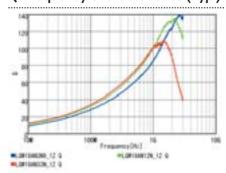
Only for reflow soldering

*S.R.F: Self Resonant Frequency

Inductance-Frequency Characteristics (Typ.)



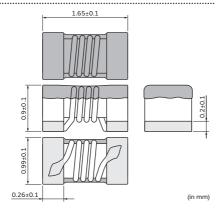
Q-Frequency Characteristics (Typ.)



RF Inductors

LQW18AN_8Z Series 0603 (1608) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part N	umber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW18AN2N2C8Z	_	2.2nH ±0.2nH	100MHz	24	250MHz	3200mA	0.018Ω	15000MHz
LQW18AN2N4C8Z	_	2.4nH ±0.2nH	100MHz	18	250MHz	2400mA	0.026Ω	15000MHz
LQW18AN3N0C8Z	_	3.0nH ±0.2nH	100MHz	13	250MHz	670mA	0.170Ω	15000MHz
LQW18AN3N9B8Z	_	3.9nH ±0.1nH	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN3N9C8Z	_	3.9nH ±0.2nH	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN3N9G8Z	_	3.9nH ±2%	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN4N1B8Z	-	4.1nH ±0.1nH	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN4N1C8Z	-	4.1nH ±0.2nH	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN4N1G8Z	I	4.1nH ±2%	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN4N2B8Z□	-	4.2nH ±0.1nH	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN4N2C8Z□	-	4.2nH ±0.2nH	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN4N2G8Z□	-	4.2nH ±2%	100MHz	30	250MHz	2200mA	0.028Ω	10000MHz
LQW18AN4N3B8Z□	_	4.3nH ±0.1nH	100MHz	35	250MHz	2100mA	0.036Ω	11600MHz
LQW18AN4N3C8Z	_	4.3nH ±0.2nH	100MHz	35	250MHz	2100mA	0.036Ω	11600MHz
LQW18AN4N3G8Z	_	4.3nH ±2%	100MHz	35	250MHz	2100mA	0.036Ω	11600MHz
LQW18AN4N7B8Z□	_	4.7nH ±0.1nH	100MHz	25	250MHz	1500mA	0.054Ω	10400MHz
LQW18AN4N7C8Z	_	4.7nH ±0.2nH	100MHz	25	250MHz	1500mA	0.054Ω	10400MHz
LQW18AN4N7G8Z	1	4.7nH ±2%	100MHz	25	250MHz	1500mA	0.054Ω	10400MHz
LQW18AN4N9B8Z□	-	4.9nH ±0.1nH	100MHz	23	250MHz	1200mA	0.081Ω	7300MHz
LQW18AN4N9C8Z	-	4.9nH ±0.2nH	100MHz	23	250MHz	1200mA	0.081Ω	7300MHz
LQW18AN4N9G8Z	-	4.9nH ±2%	100MHz	23	250MHz	1200mA	0.081Ω	7300MHz
LQW18AN5N6C8Z	-	5.6nH ±0.2nH	100MHz	38	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN5N6G8Z	-	5.6nH ±2%	100MHz	38	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN6N0C8Z	_	6.0nH ±0.2nH	100MHz	40	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN6N0G8Z	_	6.0nH ±2%	100MHz	40	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN6N5C8Z	_	6.5nH ±0.2nH	100MHz	40	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN6N5G8Z□	_	6.5nH ±2%	100MHz	40	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN6N8C8Z	_	6.8nH ±0.2nH	100MHz	40	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN6N8G8Z	_	6.8nH ±2%	100MHz	40	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN7N2C8Z	_	7.2nH ±0.2nH	100MHz	38	250MHz	1900mA	0.040Ω	6650MHz
LQW18AN7N2G8Z	_	7.2nH ±2%	100MHz	38	250MHz	1900mA	0.040Ω	6650MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering

*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.



Part N	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW18AN7N5C8Z	_	7.5nH ±0.2nH	100MHz	35	250MHz	1500mA	0.048Ω	7000MHz
LQW18AN7N5G8Z	_	7.5nH ±2%	100MHz	35	250MHz	1500mA	0.048Ω	7000MHz
LQW18AN8N2C8Z	_	8.2nH ±0.2nH	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN8N2G8Z	_	8.2nH ±2%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN8N4C8Z	_	8.4nH ±0.2nH	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN8N4G8Z	_	8.4nH ±2%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN8N7C8Z	_	8.7nH ±0.2nH	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN8N7G8Z	_	8.7nH ±2%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN9N1C8Z	_	9.1nH ±0.2nH	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN9N1G8Z	_	9.1nH ±2%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN9N5C8Z	_	9.5nH ±0.2nH	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN9N5G8Z	_	9.5nH ±2%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN9N9C8Z	_	9.9nH ±0.2nH	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN9N9G8Z	_	9.9nH ±2%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN10NG8Z	_	10nH ±2%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN10NJ8Z	_	10nH ±5%	100MHz	38	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN11NG8Z	_	11nH ±2%	100MHz	40	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN11NJ8Z	_	11nH ±5%	100MHz	40	250MHz	1600mA	0.052Ω	4750MHz
LQW18AN12NG8Z	_	12nH ±2%	100MHz	37	250MHz	1500mA	0.064Ω	5000MHz
LQW18AN12NJ8Z□	_	12nH ±5%	100MHz	37	250MHz	1500mA	0.064Ω	5000MHz
LQW18AN13NG8Z	_	13nH ±2%	100MHz	37	250MHz	1500mA	0.064Ω	5000MHz
LQW18AN13NJ8Z□	_	13nH ±5%	100MHz	37	250MHz	1500mA	0.064Ω	5000MHz
LQW18AN15NG8Z	_	15nH ±2%	100MHz	38	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN15NJ8Z□	_	15nH ±5%	100MHz	38	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN16NG8Z	_	16nH ±2%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN16NJ8Z□	_	16nH ±5%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN17NG8Z	_	17nH ±2%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN17NJ8Z□	_	17nH ±5%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN18NG8Z	_	18nH ±2%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN18NJ8Z	_	18nH ±5%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN19NG8Z	_	19nH ±2%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN19NJ8Z□	_	19nH ±5%	100MHz	40	250MHz	1400mA	0.075Ω	4600MHz
LQW18AN22NG8Z	_	22nH ±2%	100MHz	40	250MHz	1300mA	0.086Ω	3450MHz
LQW18AN22NJ8Z□	_	22nH ±5%	100MHz	40	250MHz	1300mA	0.086Ω	3450MHz
LQW18AN23NG8Z	_	23nH ±2%	100MHz	40	250MHz	1300mA	0.086Ω	3450MHz
LQW18AN23NJ8Z□	_	23nH ±5%	100MHz	40	250MHz	1300mA	0.086Ω	3450MHz
LQW18AN24NG8Z	_	24nH ±2%	100MHz	40	250MHz	1300mA	0.086Ω	3450MHz
LQW18AN24NJ8Z	_	24nH ±5%	100MHz	40	250MHz	1300mA	0.086Ω	3450MHz
LQW18AN25NG8Z□	_	25nH ±2%	100MHz	40	250MHz	1200mA	0.098Ω	3600MHz
LQW18AN25NJ8Z	_	25nH ±5%	100MHz	40	250MHz	1200mA	0.098Ω	3600MHz
LQW18AN27NG8Z□	_	27nH ±2%	100MHz	40	250MHz	1200mA	0.098Ω	3600MHz
LQW18AN27NJ8Z	_	27nH ±5%	100MHz	40	250MHz	1200mA	0.098Ω	3600MHz
LQW18AN28NG8Z	_	28nH ±2%	100MHz	40	250MHz	1200mA	0.098Ω	3600MHz
LQW18AN28NJ8Z	_	28nH ±5%	100MHz	40	250MHz	1200mA	0.098Ω	3600MHz
LQW18AN30NG8Z	_	30nH ±2%	100MHz	40	250MHz	1100mA	0.12Ω	2880MHz
LQW18AN30NJ8Z	_	30nH ±5%	100MHz	40	250MHz	1100mA	0.12Ω	2880MHz
LQW18AN31NG8Z	_	31nH ±2%	100MHz	40	250MHz	1100mA	0.11Ω	3150MHz
LQW18AN31NJ8Z	_	31nH ±5%	100MHz	40	250MHz	1100mA	0.11Ω	3150MHz
LQW18AN33NG8Z	_	33nH ±2%	100MHz	40	250MHz	1100mA	0.11Ω	3150MHz
LQW18AN33NJ8Z	_	33nH ±5%	100MHz	40	250MHz	1100mA	0.11Ω	3150MHz
LQW18AN34NG8Z	_	34nH ±2%	100MHz	40	250MHz	1050mA	0.15Ω	3000MHz
LQW18AN34NJ8Z	_	34nH ±5%	100MHz	40	250MHz	1050mA	0.15Ω	3000MHz
				1	1			

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

muRata

^{*}S.R.F: Self Resonant Frequency

Part N	lumber		Inductance					
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW18AN36NG8Z	- Tower trains surety	36nH ±2%	100MHz	37	250MHz	910mA	0.20Ω	3000MHz
LQW18AN36NJ8Z	_	36nH ±5%	100MHz	37	250MHz	910mA	0.20Ω	3000MHz
LQW18AN37NG8Z	_	37nH ±2%	100MHz	37	250MHz	910mA	0.20Ω	3000MHz
LQW18AN37NJ8Z	_	37nH ±5%	100MHz	37	250MHz	910mA	0.20Ω	3000MHz
LQW18AN39NG8Z	_	39nH ±2%	100MHz	40	250MHz	1000mA	0.16Ω	3280MHz
LQW18AN39NJ8Z□	_	39nH ±5%	100MHz	40	250MHz	1000mA	0.16Ω	3280MHz
LQW18AN41NG8Z	_	41nH ±2%	100MHz	40	250MHz	1000mA	0.16Ω	3280MHz
LQW18AN41NJ8Z	_	41nH ±5%	100MHz	40	250MHz	1000mA	0.16Ω	3280MHz
LQW18AN43NG8Z	_	43nH ±2%	100MHz	40	250MHz	840mA	0.21Ω	2780MHz
LQW18AN43NJ8Z	_	43nH ±5%	100MHz	40	250MHz	840mA	0.21Ω	2780MHz
LQW18AN44NG8Z	_	44nH ±2%	100MHz	40	250MHz	840mA	0.21Ω	2780MHz
LQW18AN44NJ8Z	_	44nH ±5%	100MHz	40	250MHz	840mA	0.21Ω	2780MHz
LQW18AN47NG8Z	_	47nH ±2%	100MHz	32	200MHz	830mA	0.23Ω	2700MHz
LQW18AN47NJ8Z	_	47nH ±5%	100MHz	32	200MHz	830mA	0.23Ω	2700MHz
LQW18AN48NG8Z	_	48nH ±2%	100MHz	32	200MHz	830mA	0.23Ω	2700MHz
LQW18AN48NJ8Z	_	48nH ±5%	100MHz	32	200MHz	830mA	0.23Ω	2700MHz
LQW18AN51NG8Z	_	51nH ±2%	100MHz	32	200MHz	830mA	0.23Ω	2700MHz
LQW18AN51NJ8Z	_	51nH ±5%	100MHz	32	200MHz	830mA	0.23Ω	2700MHz
LQW18AN52NG8Z	_	52nH ±2%	100MHz	35	200MHz	750mA	0.27Ω	2750MHz
LQW18AN52NJ8Z□	_	52nH ±5%	100MHz	35	200MHz	750mA	0.27Ω	2750MHz
LQW18AN56NG8Z	_	56nH ±2%	100MHz	38	200MHz	770mA	0.26Ω	2600MHz
LQW18AN56NJ8Z	_	56nH ±5%	100MHz	38	200MHz	770mA	0.26Ω	2600MHz
LQW18AN58NG8Z	_	58nH ±2%	100MHz	35	200MHz	700mA	0.30Ω	2400MHz
LQW18AN58NJ8Z	_	58nH ±5%	100MHz	35	200MHz	700mA	0.30Ω	2400MHz
LQW18AN68NG8Z	_	68nH ±2%	100MHz	37	200MHz	630mA	0.38Ω	2380MHz
LQW18AN68NJ8Z	_	68nH ±5%	100MHz	37	200MHz	630mA	0.38Ω	2380MHz
LQW18AN69NG8Z	_	69nH ±2%	100MHz	37	200MHz	630mA	0.38Ω	2380MHz
LQW18AN69NJ8Z□	_	69nH ±5%	100MHz	37	200MHz	630mA	0.38Ω	2380MHz
LQW18AN72NG8Z	_	72nH ±2%	100MHz	34	150MHz	560mA	0.47Ω	2330MHz
LQW18AN72NJ8Z□	_	72nH ±5%	100MHz	34	150MHz	560mA	0.47Ω	2330MHz
LQW18AN73NG8Z	_	73nH ±2%	100MHz	28	150MHz	590mA	0.41Ω	2280MHz
LQW18AN73NJ8Z□	_	73nH ±5%	100MHz	28	150MHz	590mA	0.41Ω	2280MHz
LQW18AN75NG8Z	_	75nH ±2%	100MHz	28	150MHz	590mA	0.41Ω	2280MHz
LQW18AN75NJ8Z□	_	75nH ±5%	100MHz	28	150MHz	590mA	0.41Ω	2280MHz
LQW18AN78NG8Z	_	78nH ±2%	100MHz	28	150MHz	590mA	0.41Ω	2280MHz
LQW18AN78NJ8Z□	_	78nH ±5%	100MHz	28	150MHz	590mA	0.41Ω	2280MHz
LQW18AN82NG8Z	_	82nH ±2%	100MHz	34	150MHz	550mA	0.50Ω	2230MHz
LQW18AN82NJ8Z□	_	82nH ±5%	100MHz	34	150MHz	550mA	0.50Ω	2230MHz
LQW18AN83NG8Z	_	83nH ±2%	100MHz	34	150MHz	550mA	0.50Ω	2230MHz
LQW18AN83NJ8Z	_	83nH ±5%	100MHz	34	150MHz	550mA	0.50Ω	2230MHz
LQW18AN91NG8Z	_	91nH ±2%	100MHz	33	150MHz	520mA	0.54Ω	1900MHz
LQW18AN91NJ8Z□	_	91nH ±5%	100MHz	33	150MHz	520mA	0.54Ω	1900MHz
LQW18AN94NG8Z	_	94nH ±2%	100MHz	34	150MHz	490mA	0.63Ω	1750MHz
LQW18AN94NJ8Z□	_	94nH ±5%	100MHz	34	150MHz	490mA	0.63Ω	1750MHz
LQW18ANR10G8Z	_	100nH ±2%	100MHz	34	150MHz	490mA	0.63Ω	1750MHz
LQW18ANR10J8Z	_	100nH ±5%	100MHz	34	150MHz	490mA	0.63Ω	1750MHz
LQW18ANR11G8Z	_	110nH ±2%	100MHz	32	150MHz	450mA	0.70Ω	1730MHz
LQW18ANR11J8Z□	_	110nH ±5%	100MHz	32	150MHz	450mA	0.70Ω	1730MHz
LQW18ANR12G8Z	_	120nH ±2%	100MHz	32	150MHz	450mA	0.72Ω	1650MHz
LQW18ANR12J8Z□	_	120nH ±5%	100MHz	32	150MHz	450mA	0.72Ω	1650MHz
LQW18ANR15G8Z	_	150nH ±2%	100MHz	28	150MHz	420mA	0.87Ω	1580MHz
LQW18ANR15J8Z□	_	150nH ±5%	100MHz	28	150MHz	420mA	0.87Ω	1580MHz
			1				1	

Operating temp.range (Self-temp.rise not included): -55 to 125°C $\,$

Only for reflow soldering

*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.



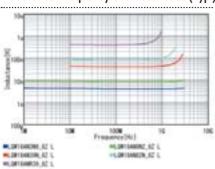
Part N	umber		Inductance			5		5 D Et (;)
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (MIN.)
LQW18ANR18G8Z	_	180nH ±2%	100MHz	25	100MHz	310mA	1.65Ω	1380MHz
LQW18ANR18J8Z	_	180nH ±5%	100MHz	25	100MHz	310mA	1.65Ω	1380MHz
LQW18ANR20G8Z	_	200nH ±2%	100MHz	25	100MHz	290mA	1.74Ω	1350MHz
LQW18ANR20J8Z	_	200nH ±5%	100MHz	25	100MHz	290mA	1.74Ω	1350MHz
LQW18ANR21G8Z	_	210nH ±2%	100MHz	27	100MHz	280mA	1.98Ω	1330MHz
LQW18ANR21J8Z□	_	210nH ±5%	100MHz	27	100MHz	280mA	1.98Ω	1330MHz
LQW18ANR22G8Z	_	220nH ±2%	100MHz	25	100MHz	280mA	2.08Ω	1330MHz
LQW18ANR22J8Z□	_	220nH ±5%	100MHz	25	100MHz	280mA	2.08Ω	1330MHz
LQW18ANR25G8Z	_	250nH ±2%	100MHz	24	100MHz	250mA	2.28Ω	1330MHz
LQW18ANR25J8Z□	_	250nH ±5%	100MHz	24	100MHz	250mA	2.28Ω	1330MHz
LQW18ANR27G8Z	_	270nH ±2%	100MHz	24	100MHz	260mA	2.42Ω	1250MHz
LQW18ANR27J8Z□	_	270nH ±5%	100MHz	24	100MHz	260mA	2.42Ω	1250MHz
LQW18ANR30G8Z	_	300nH ±2%	100MHz	25	100MHz	220mA	3.12Ω	1200MHz
LQW18ANR30J8Z	_	300nH ±5%	100MHz	25	100MHz	220mA	3.12Ω	1200MHz
LQW18ANR33G8Z	_	330nH ±2%	100MHz	25	100MHz	190mA	3.84Ω	1100MHz
LQW18ANR33J8Z	_	330nH ±5%	100MHz	25	100MHz	190mA	3.84Ω	1100MHz
LQW18ANR36G8Z	_	360nH ±2%	100MHz	25	100MHz	190mA	3.98Ω	1050MHz
LQW18ANR36J8Z	_	360nH ±5%	100MHz	25	100MHz	190mA	3.98Ω	1050MHz
LQW18ANR39G8Z	_	390nH ±2%	100MHz	25	100MHz	190mA	4.23Ω	1100MHz
LQW18ANR39J8Z□	_	390nH ±5%	100MHz	25	100MHz	190mA	4.23Ω	1100MHz

Operating temp.range (Self-temp.rise not included): -55 to 125°C

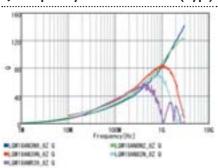
Only for reflow soldering

In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)." When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)



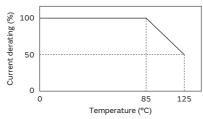
Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart

according to the operating temperature.

Derating of Rated Current

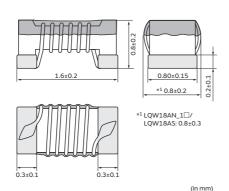


^{*}S.R.F: Self Resonant Frequency

RF Inductors

LQW18AS_0Z Series 0603 (1608) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part N	umber		Inductance	a		D. 10	W 5000 : -	5551
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW18AS1N6J0Z	_	1.6nH ±5%	250MHz	24	250MHz	700mA	0.030Ω	12500MHz
LQW18AS1N8J0Z	_	1.8nH ±5%	250MHz	16	250MHz	700mA	0.045Ω	12500MHz
LQW18AS3N3G0Z	_	3.3nH ±2%	250MHz	35	250MHz	700mA	0.045Ω	5900MHz
LQW18AS3N3J0Z	_	3.3nH ±5%	250MHz	35	250MHz	700mA	0.045Ω	5900MHz
LQW18AS3N6G0Z□	_	3.6nH ±2%	250MHz	22	250MHz	700mA	0.063Ω	5900MHz
LQW18AS3N6J0Z	_	3.6nH ±5%	250MHz	22	250MHz	700mA	0.063Ω	5900MHz
LQW18AS3N9G0Z□	_	3.9nH ±2%	250MHz	22	250MHz	700mA	0.080Ω	6900MHz
LQW18AS3N9J0Z	_	3.9nH ±5%	250MHz	22	250MHz	700mA	0.080Ω	6900MHz
LQW18AS4N3G0Z□	_	4.3nH ±2%	250MHz	22	250MHz	700mA	0.063Ω	5900MHz
LQW18AS4N3J0Z	-	4.3nH ±5%	250MHz	22	250MHz	700mA	0.063Ω	5900MHz
LQW18AS4N7G0Z□	-	4.7nH ±2%	250MHz	20	250MHz	700mA	0.116Ω	5800MHz
LQW18AS4N7J0Z	-	4.7nH ±5%	250MHz	20	250MHz	700mA	0.116Ω	5800MHz
LQW18AS5N1G0Z□	_	5.1nH ±2%	250MHz	20	250MHz	700mA	0.140Ω	5700MHz
LQW18AS5N1J0Z	_	5.1nH ±5%	250MHz	20	250MHz	700mA	0.140Ω	5700MHz
LQW18AS5N6G0Z□	_	5.6nH ±2%	250MHz	26	250MHz	700mA	0.075Ω	4760MHz
LQW18AS5N6J0Z	-	5.6nH ±5%	250MHz	26	250MHz	700mA	0.075Ω	4760MHz
LQW18AS6N8G0Z□	I	6.8nH ±2%	250MHz	27	250MHz	700mA	0.110Ω	5800MHz
LQW18AS6N8J0Z	I	6.8nH ±5%	250MHz	27	250MHz	700mA	0.110Ω	5800MHz
LQW18AS7N5G0Z□	-	7.5nH ±2%	250MHz	28	250MHz	700mA	0.106Ω	4800MHz
LQW18AS7N5J0Z	-	7.5nH ±5%	250MHz	28	250MHz	700mA	0.106Ω	4800MHz
LQW18AS8N2G0Z□	-	8.2nH ±2%	250MHz	30	250MHz	700mA	0.115Ω	4200MHz
LQW18AS8N2J0Z	-	8.2nH ±5%	250MHz	30	250MHz	700mA	0.115Ω	4200MHz
LQW18AS8N7G0Z□	_	8.7nH ±2%	250MHz	28	250MHz	700mA	0.109Ω	4600MHz
LQW18AS8N7J0Z	_	8.7nH ±5%	250MHz	28	250MHz	700mA	0.109Ω	4600MHz
LQW18AS9N5G0Z□	_	9.5nH ±2%	250MHz	28	250MHz	700mA	0.135Ω	5400MHz
LQW18AS9N5J0Z	_	9.5nH ±5%	250MHz	28	250MHz	700mA	0.135Ω	5400MHz
LQW18AS10NG0Z□	_	10nH ±2%	250MHz	31	250MHz	700mA	0.130Ω	4800MHz
LQW18AS10NJ0Z	_	10nH ±5%	250MHz	31	250MHz	700mA	0.130Ω	4800MHz
LQW18AS11NG0Z□	_	11nH ±2%	250MHz	30	250MHz	700mA	0.086Ω	4000MHz
LQW18AS11NJ0Z	_	11nH ±5%	250MHz	30	250MHz	700mA	0.086Ω	4000MHz
LQW18AS12NG0Z□	_	12nH ±2%	250MHz	35	250MHz	700mA	0.130Ω	4000MHz
LQW18AS12NJ0Z	_	12nH ±5%	250MHz	35	250MHz	700mA	0.130Ω	4000MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C

Only for reflow soldering

*S.R.F: Self Resonant Frequency



Part N	umber	Industance	Inductance	O (min)	O Tost From	Pated Current	May of DC Posistones	S D E* /i-
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F^ (MIN
LQW18AS15NG0Z	_	15nH ±2%	250MHz	35	250MHz	700mA	0.170Ω	4000MH
LQW18AS15NJ0Z□	_	15nH ±5%	250MHz	35	250MHz	700mA	0.170Ω	4000MH
LQW18AS16NG0Z	_	16nH ±2%	250MHz	34	250MHz	700mA	0.104Ω	3300MH:
LQW18AS16NJ0Z□	_	16nH ±5%	250MHz	34	250MHz	700mA	0.104Ω	3300MH:
LQW18AS18NG0Z	_	18nH ±2%	250MHz	35	250MHz	700mA	0.170Ω	3100MH:
LQW18AS18NJ0Z□	_	18nH ±5%	250MHz	35	250MHz	700mA	0.170Ω	3100MH
LQW18AS22NG0Z□	_	22nH ±2%	250MHz	38	250MHz	700mA	0.190Ω	3000MH
LQW18AS22NJ0Z□	_	22nH ±5%	250MHz	38	250MHz	700mA	0.190Ω	3000MH:
LQW18AS23NG0Z□	_	23nH ±2%	250MHz	38	250MHz	700mA	0.190Ω	2850MH
LQW18AS23NJ0Z□	_	23nH ±5%	250MHz	38	250MHz	700mA	0.190Ω	2850MH
LQW18AS24NG0Z	_	24nH ±2%	250MHz	36	250MHz	700mA	0.135Ω	2650MH
LQW18AS24NJ0Z□	_	24nH ±5%	250MHz	36	250MHz	700mA	0.135Ω	2650MH
LQW18AS27NG0Z	_	27nH ±2%	250MHz	40	250MHz	600mA	0.220Ω	2800MH
LQW18AS27NJ0Z□	_	27nH ±5%	250MHz	40	250MHz	600mA	0.220Ω	2800MH
LQW18AS30NG0Z	_	30nH ±2%	250MHz	37	250MHz	600mA	0.144Ω	2250MH
LQW18AS30NJ0Z□	_	30nH ±5%	250MHz	37	250MHz	600mA	0.144Ω	2250MH
LQW18AS33NG0Z	_	33nH ±2%	250MHz	40	250MHz	600mA	0.220Ω	2300MH
LQW18AS33NJ0Z□	_	33nH ±5%	250MHz	40	250MHz	600mA	0.220Ω	2300MH
LQW18AS36NG0Z	_	36nH ±2%	250MHz	37	250MHz	600mA	0.250Ω	2080MH
LQW18AS36NJ0Z□	_	36nH ±5%	250MHz	37	250MHz	600mA	0.250Ω	2080MH
LQW18AS39NG0Z	_	39nH ±2%	250MHz	40	250MHz	600mA	0.250Ω	2200MH
LQW18AS39NJ0Z□	_	39nH ±5%	250MHz	40	250MHz	600mA	0.250Ω	2200MF
LQW18AS43NG0Z	_	43nH ±2%	250MHz	38	250MHz	600mA	0.280Ω	2000MF
LQW18AS43NJ0Z□	_	43nH ±5%	250MHz	38	250MHz	600mA	0.280Ω	2000MF
LQW18AS47NG0Z	_	47nH ±2%	200MHz	38	200MHz	600mA	0.280Ω	2000MH
LQW18AS47NJ0Z□	_	47nH ±5%	200MHz	38	200MHz	600mA	0.280Ω	2000MH
LQW18AS51NG0Z	_	51nH ±2%	200MHz	35	200MHz	600mA	0.270Ω	1900MH
LQW18AS51NJ0Z□	_	51nH ±5%	200MHz	35	200MHz	600mA	0.270Ω	1900MH
LQW18AS56NG0Z	_	56nH ±2%	200MHz	38	200MHz	600mA	0.310Ω	1900MH
LQW18AS56NJ0Z□	_	56nH ±5%	200MHz	38	200MHz	600mA	0.310Ω	1900MH
LQW18AS68NG0Z	_	68nH ±2%	200MHz	37	200MHz	600mA	0.340Ω	1700MH
LQW18AS68NJ0Z□	_	68nH ±5%	200MHz	37	200MHz	600mA	0.340Ω	1700MH
LQW18AS72NG0Z	_	72nH ±2%	150MHz	34	150MHz	400mA	0.490Ω	1700MH
LQW18AS72NJ0Z	_	72nH ±5%	150MHz	34	150MHz	400mA	0.490Ω	1700MH
LQW18AS82NG0Z	_	82nH ±2%	150MHz	34	150MHz	400mA	0.540Ω	1700MH
LQW18AS82NJ0Z	_	82nH ±5%	150MHz	34	150MHz	400mA	0.540Ω	1700MH
LQW18ASR10G0Z	_	100nH ±2%	150MHz	34	150MHz	400mA	0.580Ω	1400MH
LQW18ASR10J0Z	_	100nH ±5%	150MHz	34	150MHz	400mA	0.580Ω	1400MH
LQW18ASR11G0Z	_	110nH ±2%	150MHz	32	150MHz	300mA	0.610Ω	1350MH
LQW18ASR11J0Z	_	110nH ±5%	150MHz	32	150MHz	300mA	0.610Ω	1350MH
LQW18ASR12G0Z	_	120nH ±2%	150MHz	32	150MHz	300mA	0.650Ω	1300MH
LQW18ASR12J0Z		120nH ±5%	150MHz	32	150MHz	300mA	0.650Ω	1300MH
LQW18ASR15G0Z		150nH ±2%	150MHz	28	150MHz	280mA	0.920Ω	990MHz
LQW18ASR15J0Z	_	150nH ±5%	150MHz	28	150MHz	280mA	0.920Ω	990MH:
LQW18ASR18G0Z	_	180nH ±2%	100MHz	25	100MHz	240mA	1.250Ω	990MH:
LQW18ASR18J0Z	_	180nH ±5%	100MHz	25	100MHz	240mA	1.250Ω	990MH:
LQW18ASR18J0Z	<u> </u>	200nH ±2%	100MHz	25	100MHz	240mA	1.980Ω	900MH
LQW18ASR20G0Z		200nH ±2%	100MHz	25	100MHz	200mA	1.980Ω	900MH
LQW18ASR21G0Z		210nH ±2%	100MHz	27	100MHz	200mA	2.060Ω	
	<u> </u>							895MH:
LQW18ASR21J0Z	_	210nH ±5%	100MHz	27	100MHz	200mA	2.060Ω	895MHz
LQW18ASR22G0Z	_	220nH ±2%	100MHz	25	100MHz	200mA	2.100Ω	900MHz
LQW18ASR22J0Z□	_	220nH ±5%	100MHz	25	100MHz	200mA	2.100Ω	900MHz

Operating temp.range (Self-temp.rise included): -40 to 125°C $\,$

Only for reflow soldering

*S.R.F: Self Resonant Frequency

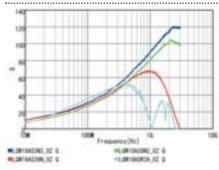


Part N	Part Number		Inductance	Q (min.)	Q Test Frequency	Dated Current	Max. of DC Resistance	CD Et (min.)	
Infotainment	Powertrain/Safety	Inductance	Test Frequency	Q (IIIII.)	Q lest Frequency	Rated Current	Max. of DC Resistance	3.K.F" (IIIII.)	
LQW18ASR25J0Z	_	250nH ±5%	100MHz	25	100MHz	120mA	3.550Ω	822MHz	
LQW18ASR27G0Z□	_	270nH ±2%	100MHz	24	100MHz	170mA	2.300Ω	900MHz	
LQW18ASR27J0Z	_	270nH ±5%	100MHz	24	100MHz	170mA	2.300Ω	900MHz	
LQW18ASR33G0Z□	_	330nH ±2%	100MHz	25	100MHz	100mA	3.890Ω	900MHz	
LQW18ASR33J0Z	_	330nH ±5%	100MHz	25	100MHz	100mA	3.890Ω	900MHz	
LQW18ASR39G0Z□	_	390nH ±2%	100MHz	25	100MHz	100mA	4.350Ω	900MHz	
LQW18ASR39J0Z	_	390nH ±5%	100MHz	25	100MHz	100mA	4.350Ω	900MHz	

Operating temp.range (Self-temp.rise included): -40 to 125°C

Inductance-Frequency Characteristics (Typ.)

Q-Frequency Characteristics (Typ.)



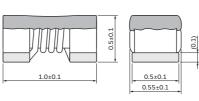
Only for reflow soldering

^{*}S.R.F: Self Resonant Frequency



LQW15CN_0Z Series 0402 (1005) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
В	Packing in Bulk	500





(in mm)

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current	Max. of DC Resistance	S.R.F* (min.)	
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	Max. of DC Resistance	3.R.F" (IIIII.)	
LQW15CN18NJ0Z□	_	18nH ±5%	100MHz	1400mA	0.046Ω	3000MHz	
LQW15CN33NJ0Z□	_	33nH ±5%	100MHz	1300mA	0.065Ω	1800MHz	
LQW15CN48NJ0Z□	_	48nH ±5%	100MHz	1100mA	0.078Ω	1400MHz	
LQW15CN70NJ0Z□	_	70nH ±5%	100MHz	820mA	0.12Ω	1300MHz	
LQW15CN96NJ0Z□	_	96nH ±5%	100MHz	730mA	0.16Ω	1100MHz	
LQW15CNR13J0Z	_	130nH ±5%	100MHz	640mA	0.23Ω	1000MHz	
LQW15CNR16J0Z	_	160nH ±5%	100MHz	480mA	0.33Ω	900MHz	
LQW15CNR20J0Z	_	200nH ±5%	100MHz	390mA	0.47Ω	800MHz	

Operating temp.range (Self-temp.rise not included): -40 to 125°C

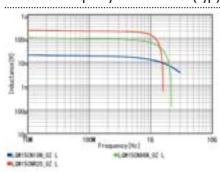
Class of Magnetic Shield: No Shield

Only for reflow soldering

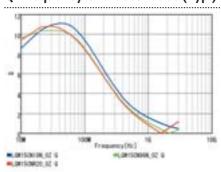
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15C series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)

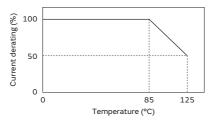


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Notice (Rating)

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

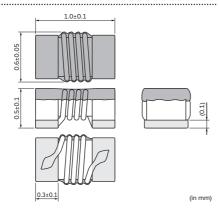
Derating of Rated Current





LQW15CN_1Z Series 0402 (1005) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
В	Packing in Bulk	500

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current	Max. of DC Resistance	S.R.F* (min.)
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	Max. of DC Resistance	3.R.F" (IIIII.)
LQW15CN20NJ1Z□	_	20nH ±5%	100MHz	2200mA	0.028Ω	3000MHz
LQW15CN20NK1Z	_	20nH ±10%	100MHz	2200mA	0.028Ω	3000MHz
LQW15CN34NJ1Z	_	34nH ±5%	100MHz	1800mA	0.036Ω	2500MHz
LQW15CN34NK1Z	_	34nH ±10%	100MHz	1800mA	0.036Ω	2500MHz
LQW15CN53NJ1Z	_	53nH ±5%	100MHz	1300mA	0.060Ω	2000MHz
LQW15CN53NK1Z	_	53nH ±10%	100MHz	1300mA	0.060Ω	2000MHz
LQW15CN77NJ1Z□	_	77nH ±5%	100MHz	1100mA	0.090Ω	2000MHz
LQW15CN77NK1Z	_	77nH ±10%	100MHz	1100mA	0.090Ω	2000MHz
LQW15CNR11J1Z	_	106nH ±5%	100MHz	850mA	0.144Ω	1500MHz
LQW15CNR11K1Z□	_	106nH ±10%	100MHz	850mA	0.144Ω	1500MHz
LQW15CNR14J1Z	_	140nH ±5%	100MHz	650mA	0.216Ω	1000MHz
LQW15CNR14K1Z□	_	140nH ±10%	100MHz	650mA	0.216Ω	1000MHz
LQW15CNR18J1Z	_	180nH ±5%	100MHz	560mA	0.312Ω	1000MHz
LQW15CNR18K1Z□	_	180nH ±10%	100MHz	560mA	0.312Ω	1000MHz
LQW15CNR22J1Z□	_	220nH ±5%	100MHz	450mA	0.47Ω	1400MHz
LQW15CNR22K1Z□	_	220nH ±10%	100MHz	450mA	0.47Ω	1400MHz
LQW15CNR27J1Z□	_	270nH ±5%	100MHz	420mA	0.52Ω	830MHz
LQW15CNR27K1Z□	_	270nH ±10%	100MHz	420mA	0.52Ω	830MHz
LQW15CNR33J1Z	_	330nH ±5%	100MHz	390mA	0.56Ω	520MHz
LQW15CNR33K1Z□	_	330nH ±10%	100MHz	390mA	0.56Ω	520MHz
LQW15CNR39J1Z□	_	390nH ±5%	100MHz	370mA	0.62Ω	450MHz
LQW15CNR39K1Z□	_	390nH ±10%	100MHz	370mA	0.62Ω	450MHz
LQW15CNR42J1Z□	_	420nH ±5%	10MHz	370mA	0.62Ω	400MHz
LQW15CNR42K1Z□	_	420nH ±10%	10MHz	370mA	0.62Ω	400MHz
LQW15CNR47J1Z□	_	470nH ±5%	10MHz	350mA	0.66Ω	380MHz
LQW15CNR47K1Z□	_	470nH ±10%	10MHz	350mA	0.66Ω	380MHz
LQW15CNR56J1Z□	_	560nH ±5%	10MHz	300mA	0.71Ω	300MHz
LQW15CNR56K1Z□	_	560nH ±10%	10MHz	300mA	0.71Ω	300MHz

Operating temp.range (Self-temp.rise not included): -40 to 125°C

Class of Magnetic Shield: No Shield

Only for reflow soldering

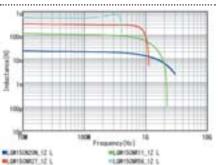
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15C series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."

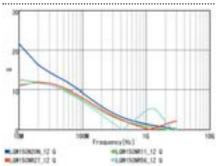
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Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)

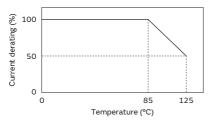


Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

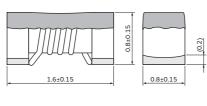
Please apply the derating curve shown in the chart according to the operating temperature.

Derating of Rated Current



LQW18CN_0Z Series 0603 (1608) inch (mm)

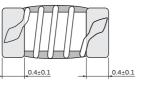
Appearance/Dimensions





Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
В	Packing in Bulk	500





(in mm)

Rated Value (□: packaging code)

Part Number		Inductance	Inductance	Rated Current	Max. of DC Resistance	S.D.Et (min.)
Infotainment	Powertrain/Safety	inductance	Test Frequency	Rated Current	Max. of DC Resistance	S.R.F* (min.)
LQW18CN4N9D0Z□	_	4.9nH ±0.5nH	10MHz	2600mA	0.015Ω	2300MHz
LQW18CN15NJ0Z□	_	15nH ±5%	10MHz	2200mA	0.025Ω	2000MHz
LQW18CN33NJ0Z□	_	33nH ±5%	10MHz	1700mA	0.035Ω	1800MHz
LQW18CN55NJ0Z□	_	55nH ±5%	10MHz	1500mA	0.045Ω	1600MHz
LQW18CN85NJ0Z□	_	85nH ±5%	10MHz	1400mA	0.060Ω	1380MHz
LQW18CNR10K0Z	_	100nH ±10%	10MHz	1000mA	0.10Ω	1260MHz
LQW18CNR12J0Z	_	120nH ±5%	10MHz	1100mA	0.085Ω	1200MHz
LQW18CNR16J0Z	_	160nH ±5%	10MHz	1000mA	0.10Ω	900MHz
LQW18CNR21J0Z	_	210nH ±5%	10MHz	800mA	0.15Ω	720MHz
LQW18CNR27J0Z	_	270nH ±5%	10MHz	750mA	0.16Ω	660MHz
LQW18CNR33J0Z	_	330nH ±5%	10MHz	630mA	0.25Ω	600MHz
LQW18CNR39J0Z	_	390nH ±5%	10MHz	620mA	0.28Ω	570MHz
LQW18CNR47J0Z	_	470nH ±5%	10MHz	500mA	0.45Ω	555MHz
LQW18CNR56J0Z	_	560nH ±5%	10MHz	450mA	0.48Ω	540MHz
LQW18CNR65J0Z	_	650nH ±5%	10MHz	430mA	0.52Ω	510MHz

Operating temp.range (Self-temp.rise not included): -40 to 125°C

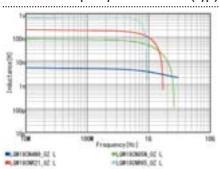
Class of Magnetic Shield: No Shield

Only for reflow soldering

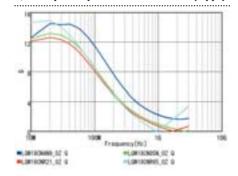
*S.R.F: Self Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW18CN_0Z series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider "Notice (Rating)."

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)



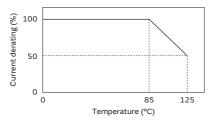
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Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.

Derating of Rated Current



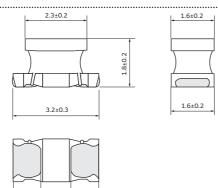


RF Inductors

LQH31HZ_03 Series 1206 (3216) inch (mm)

(in mm)

Appearance/Dimensions



0.7 min

Packaging

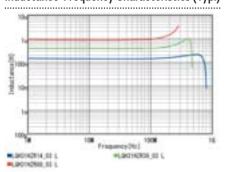
Code	Packaging	Minimum Quantity
К	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

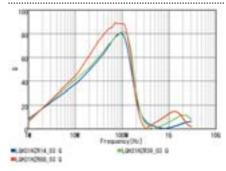
Part N	umber	Inductance	Inductance	Q (min.) Q Test Frequency	Rated Current	DC Resistance	S.R.F* (min.)		
Infotainment	Powertrain/Safety	inductance	Test Frequency	Q (min.)	Q Test Frequency	Rated Current	DC Resistance	3.K.F** (Min.)	
LQH31HZ54NK03□	_	54nH ±10%	1MHz	50	100MHz	920mA	0.035Ω±30%	800MHz	
LQH31HZ95NK03□	-	95nH ±10%	1MHz	60	100MHz	790mA	0.047Ω±30%	650MHz	
LQH31HZR14J03□	-	145nH ±5%	1MHz	60	100MHz	700mA	0.061Ω±30%	500MHz	
LQH31HZR14K03□	-	145nH ±10%	1MHz	60	100MHz	700mA	0.061Ω±30%	500MHz	
LQH31HZR21J03□	-	215nH ±5%	1MHz	60	100MHz	520mA	0.11Ω±30%	430MHz	
LQH31HZR21K03	_	215nH ±10%	1MHz	60	100MHz	520mA	0.11Ω±30%	430MHz	
LQH31HZR29J03□	_	290nH ±5%	1MHz	60	100MHz	420mA	0.17Ω±30%	360MHz	
LQH31HZR29K03□	_	290nH ±10%	1MHz	60	100MHz	420mA	0.17Ω±30%	360MHz	
LQH31HZR39J03□	_	390nH ±5%	1MHz	60	100MHz	330mA	0.26Ω±30%	300MHz	
LQH31HZR39K03□	_	390nH ±10%	1MHz	60	100MHz	330mA	0.26Ω±30%	300MHz	
LQH31HZR50J03	_	500nH ±5%	1MHz	60	100MHz	260mA	0.44Ω±30%	270MHz	
LQH31HZR50K03	_	500nH ±10%	1MHz	60	100MHz	260mA	0.44Ω±30%	270MHz	
LQH31HZR61J03□	_	610nH ±5%	1MHz	60	100MHz	250mA	0.48Ω±30%	240MHz	
LQH31HZR61K03	_	610nH ±10%	1MHz	60	100MHz	250mA	0.48Ω±30%	240MHz	
LQH31HZR75J03□	_	750nH ±5%	1MHz	60	100MHz	190mA	0.79Ω±30%	220MHz	
LQH31HZR75K03□	_	750nH ±10%	1MHz	60	100MHz	190mA	0.79Ω±30%	220MHz	
LQH31HZR88J03□	_	880nH ±5%	1MHz	60	100MHz	180mA	0.86Ω±30%	200MHz	
LQH31HZR88K03□	_	880nH ±10%	1MHz	60	100MHz	180mA	0.86Ω±30%	200MHz	

Operating temp.range (Self-temp.rise not included): -40 to 85°C

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)



^{*}S.R.F: Self Resonant Frequency

RF Inductors (1) Caution/Notice

● (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.

For the usage of powertrain and safety be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product. 2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the 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.

Notice

Storage and Operating Condition

<Operating Environment>

Do not use products in chemical atmosphere such as chlorine gas, acid or sulfide gas.

- <Storage Requirements>
- 1. Storage Period
 - LQG series should be used within 6 months; the other products should be used within 12 months.

 Check solderability if this period is exceeded.
- 2. Storage Conditions
 - (1) Store products in a warehouse in compliance with the following conditions:

Temperature: -10 to +40 degrees C. Humidity: 15 to 85% (relative humidity) Do not subject products to rapid changes in temperature and humidity. Do not store them in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas. This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

- (2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.
- (3) Store products on pallets to protect from humidity, dust, etc.
- (4) Avoid heat shock, vibration, direct sunlight, etc.
- (5) Products should be storaged under the airtight packaged condition. (LQG Series)

Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

LQW_A/C series

- To prevent breaking the wire, avoid touching with sharp material, such as tweezers or the bristles of a cleaning brush, to the wire wound portion.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.
- In some mounting machines, when picking up components, a support pin pushes the components up from the bottom of the base tape. In this case, please remove the support pin. The support pin may damage the components and break the wire.
- In rare cases, the laser recognition cannot recognize this component. Please contact us when you use laser recognizion. (There is no problem with the permeation and reflection type.) (LQW15A Series only)

<Transportation>

Do not apply excessive vibration or mechanical shock to products.

<Resin Coating>

When coating products with resin, the relatively high resin curing stress may change inductance values. For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

Continued on the following page. 7

Continued from the preceding page.

(LQW series)

An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

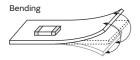
(LQP series)

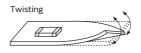
When products are coated with resin, please contact us in advance.

<Handling of a Substrate>

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate.

Excessive mechanical stress may cause cracking in the Product.





Substrate restriction (LQP Series)

- Don't mount on FPC (Flexible printed circuits)
- When components are mounted on substrate of under 6-layers, please contact us in advance.

To mount components on FPC or substrate of under 6-layers may cause of cracking issue by stress.

(1) There is a possibility of chip cracking caused by PCB expansion/contraction with heat, because stress on a chip is different depending on PCB material and structure.

When the thermal expansion coefficient greatly differs between the board used for mounting and the chip, it will cause cracking of the chip due to the thermal expansion and contraction.

The chip is assumed to be mounted on the PCB of glass-epoxy material, and we don't test with other PCB material which has different thermal expansion coefficient from Glass-epoxy.

When other PCB materials are considered, please be sure to evaluate by yourself.

(2) 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.

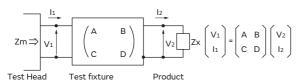
In case of the mounting on flexible PCB, there is a possibility of chip cracking caused by mechanical stress even from small bending or twisting.

When the flexible PCB is considered, please be sure to evaluate by yourself.

Measuring Method

Measuring Method of Inductance/Q

1. Residual elements and stray elements of test fixtures can be described by F-parameter as shown in the following:



2. The impedance of chip Inductors (chip coils) Zx and measured value Zm can be described by input/output current/voltage.

$$Zm = \frac{V_1}{I_1}$$
 , $Zx = \frac{V_2}{I_2}$

3. Thus, the relation between Zx and Zm is shown in the following:

$$Zx = \alpha \frac{Zm - \beta}{1 - Zm\Gamma} \quad \begin{array}{c} \text{where, } \alpha = D \ / \ A = 1 \\ \beta = B \ / \ D = Zsm - (1 - Yom \ Zsm) \ Zss \\ \Gamma = C \ / \ A = Yom \\ \\ Zss: \ \text{residual impedance of short chip} \\ Zss: \ \text{residual impedance of short chip} \\ Yom: \ \text{measured admittance when opening the fixture} \end{array}$$

*Residual inductance of short chip

Residual Inductance	Series
0nH	LQG15H, LQG18HH
0.480nH	LQP03TN
0.556nH	LQG15W, LQW15A/C
0.771nH	LQH31H, LQW18AN/C

4. Lx and Qx should be calculated with the following equation.

$$Lx = \frac{Im(Zx)}{2\pi f}$$
, $Qx = \frac{Im(Zx)}{Re(Zx)}$

Lx: Inductance of chip Inductors (chip coils) Qx: Q of chip Inductors (chip coils) f: Measuring frequency



RF Inductors Soldering and Mounting

1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductors (chip coils) electrode.

Land Pattern
+ Solder Resist

Land Pattern

Solder Resist

(in mm)

					(111 111111)
Series		Standard Land Dimensions			
LQG15H LQG18H		Part Number	a	b	С
LQG15W		LQG15H	0.4	1.4-1.5	0.5-0.6
LQH31H		LQG18H	0.6-0.8	1.8-2.2	0.6-0.8
LQP03 LQW15A/C		LQH31H	1.0	4.5	1.5
LQW18A	a	LQP03	0.2-0.3	0.8-0.9	0.2-0.3
	b	LQG15W, LQW15A (Except for _8Z)	0.5	1.2	0.65
		LQW15A_8Z	0.6	1.42	0.66
		LQW15C_0Z	0.4	1.4	0.6
		LQW15C_1Z	0.4	1.4	0.66
		LQW18A (Except for _8Z)	0.6-0.8	1.9-2.0	0.7-1.0
		LQW18A_8Z	0.86	2.0	1.15
		LQW18C	0.7	2.2	1.0

Attention should be paid to potential magnetic coupling effects when using the Inductors (coils) as a resonator.

2. Standard Soldering Conditions

(1) Soldering method

Chip Inductors (Chip coils) can be flow or reflow soldered. Please contact Murata regarding other soldering methods.

As for LQG, LQP, LQW series, please use reflow soldering. Solder: Use Sn-3.0Ag-0.5Cu solder.

Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine content exceeding 0.2wt%).

Do not use water-soluble flux.

The flux used for LQW series should use the rosin-based flux that includes middle activator equivalent to 0.06wt% to 0.1wt% chlorine.

For additional mounting methods, please contact Murata.

(2) Soldering profile

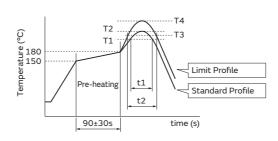
Reflow Soldering profile (Sn-3.0Ag-0.5Cu solder) Temperature (°C) T3 T2 t2 Limit Profile Standard Profile Pre-heating time (s) Standard Profile Limit Profile Pre-heating Series Cycle of flow Cycle of flow Temp. (T1) Time. (t1) Temp. (T2) Time. (t2) Temp. (T3) Time. (t2) 2 times 2 times LQH31H 150°C 250°C 265±3°C 60s min. 4 to 6s 5s max. max. max.

Continued on the following page.

RF Inductors Soldering and Mounting

Continued from the preceding page.

● Reflow Soldering profile (Sn-3.0Ag-0.5Cu solder)



		Standa	rd Profile			Limit	Profile	
Series	Heating		Peak temperature	Cycle	Heating		Peak temperature	Cycle
	Temp. (T1)		(T2)	of reflow	Temp. (T3)	Time. (t2)	(T4)	of reflow
LQG15H/W, 18H LQH31H LQP03 LQW15A/C, 18A/C	220°C	30 to 60s	245±3°C	2 times max.	230°C	60s max.	260°C/10s	2 times max.

(3) Reworking with Soldering Iron

Preheating at 150°C for 1 minute is required. Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the products due to the thermal shock.

Soldering iron power output: 80W max.

Temperature of soldering iron tip: 350°C

Diameter of soldering iron end: 3.0mm max.

Soldering time: within 3 s

Please keep the fix time with the soldering iron within 2 times.

3. Mounting Instructions

(1) Land Pattern Dimensions

Large lands reduce Q of the mounted chip. Also, large protruding land areas (bordered by lines having dimensions 'c' and 'd' shown) cause floating and electrode leaching.

(2) Land Pattern Designing (LQW series)

Please follow the recommended patterns.

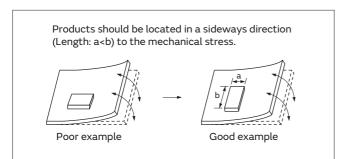
Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result

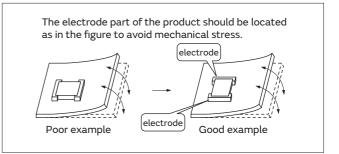
in "position shift" in the soldering process.

Land Solder Resist

(3) PCB Warping

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





Continued on the following page. ${\cal J}$



RF Inductors Soldering and Mounting

Continued from the preceding page.

(4) Amount of Solder Paste

Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that solder is applied.

Guideline of solder paste thickness

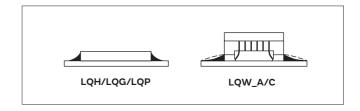
· LQW15C: 50 to 100μm · LQP03TN: 60 to 100μm

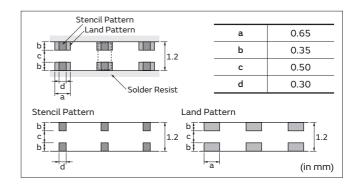
 \cdot LQG, LQW15A/LQW18A/C: 100 to 150 μ m

· LQH31H: 200 to 300µm

LQW15A Series:

Too much solder may cause slant or rotation of the chip at the time of solder melting. Please reduce the amount of solder by using a smaller solder area than the land pattern, as shown in the figure at right.





4. Cleaning

The following conditions should be observed when cleaning chip inductors (chip coils):

- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic

Output: 20W/l max.

Duration: 5 minutes max.

Frequency: 28 to 40kHz

Care should be taken not to cause resonance of the PCB and mounted products.

(3) Cleaning agent

The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.

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

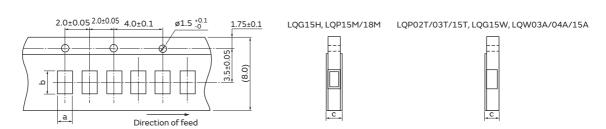
(4) Ensure that flux residue is completely removed.

Component should be thoroughly dried after aqueous agents have been removed with deionized water.

For additional cleaning methods, please contact Murata.

RF Inductors Packaging

Minimum Quantity and 8mm Width Taping Dimensions (1)



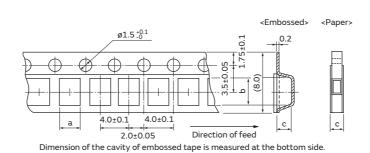
Paper Tape

Part Number	Dimer	nsions	Total Thickness of Tape Packaging Code (Minimum Qt			Qty. [pcs.])
Part Number	a	b	С	ø180mm reel	ø330mm reel	Bulk
LQG15H	0.62	1.12	0.8 max.	D (10000)	J (50000)	B (1000)
LQG15W	0.69	1.18	0.85 max.	D (10000)	J (40000)	B (100)
LQP03T *1	0.35	0.65/0.67	0.55 max.	D (15000)	J (50000)	B (500)
LQW15A_0Z *2	0.64/0.66/0.69	1.18	0.8 max.	D (10000)	-	B (500)
LQW15A_1Z *3	0.66/0.69	1.18	0.8 max.	D (10000)	-	B (500)
LQW15A_8Z	0.75	1.18	0.8 max.	D (10000)	-	B (500)
LQW15C_0Z *4	0.64/0.66	1.18	0.8 max.	D (10000)	-	B (500)
LQW15C_1Z	0.69	1.18	0.8 max.	D (10000)	-	B (500)

- *1 0.67 (LQP03TN_Z2; 0.6-62nH)
 - 0.65 (LQP03TN_Z2; 68-120nH)
- *2 0.69 (1.5nH, 2.4-2.8nH, 3.9-4.8nH, 5.8-6.8nH, 8.2-9.9nH, 11nH, 12nH, 15nH) 0.66 (1.6-1.8nH, 2.9nH, 3.0nH, 3.1nH, 3.2nH, 4.9-5.1nH, 6.9-7.5nH, 10nH, 13nH, 16-23nH, 100nH, 120nH) 0.64 (24-91nH)
- *3 0.69 (1.3nH, 1.4nH)
 - 0.66 (2.2-8.4nH)
- *4 0.64 (70nH-200nH)
 - 0.66 (18nH-48nH)

(in mm)

Minimum Quantity and 8mm Width Taping Dimensions (2)



Paper Tape

r aper rape						
Part Number	Dimensions		Total Thickness of Tape	Packaging Code (Minimum Qty. [pcs.])		
Part Number	a	b	С	ø180mm reel	ø330mm reel	Bulk
LQG18H	1.05	1.85	1.1 max.	D (4000)	J (10000)	B (1000)
LQW18A_0Z/18C	1.0	1.8	1.1 max.	D (4000)	J (10000)	B (500)
LQW18A_1Z	1.1	1.9	1.1 max.	D (4000)	J (10000)	B (500)
LQW18A_8Z	1.15	1.9	1.1 max.	D (4000)	J (10000)	B (500)
LQW18AS_0Z	1.06	1.86	1.1 max.	D (4000)	J (10000)	B (500)

Embossed Tape

Part Number	Dimensions		Total Thickness of Tape	Packaging Code (Minimum Qty. [pcs.])		
Part Number	a	b	С	ø180mm reel	ø330mm reel	Bulk
LQH31	1.9	3.6	2.0	L (2000)	K (7500)	-

(in mm)



Part Number Quick Reference

EMI Suppression Filters (for DC) ■

Chip Ferrite Bead
BLE18PS 106
BLE32PN
BLM03AG
BLM03AX 16
BLM03BB 20
BLM03BC 20
BLM03BD 20
BLM03EB 26
BLM03HB · · · · · · 23
BLM03HD 23
BLM03HG ······23
BLM03PG · · · · · · 15
BLM03PX · · · · · · 13
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BLM15PX
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BLM18AG (150°C available)

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BLM03BC 20	BLM18HD
BLM03BD 20	BLM18HE 75
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BLM03HB 23	BLM18KG 55
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LQW18CN_0Z383

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NCB1806E151TR020F NCB-H0603R121TR300F NCB-H0805A220TR600F NCB-H0805A390TR400F CIM21J252NE CZB2BFTTE121P
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