

Inductors for Power Lines Part Numbering

(Part Number)

LQ	M	21	P	N	R54	M	G	0	D
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

② Structure

Code	Structure
H	Wire Wound Type (Ferrite Core)
W	
M	Multilayer Type (Ferrite Core)

③ Dimensions (L×W)

Code	Dimensions (L×W)	Size Code (in inch)
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805
2M	2.0×1.6mm	0806
2H	2.5×2.0mm	1008
3N	3.0×3.0mm	1212
31	3.2×1.6mm	1206
32	3.2×2.5mm	1210
43	4.5×3.2mm	1812
44	4.0×4.0mm	1515
5B	5.0×5.0mm	2020
55	5.7×5.0mm	2220
66	6.3×6.3mm	2525

④ Applications and Characteristics

Code	Series	Applications and Characteristics
D	LQM	for Choke (Low-current DC Power Supplies)
F		for Choke (DC Power Supplies)
D	LQH	for Choke
S		for Choke (Magnetically Shielded Type)
C	LQH/LQW	for Choke (Coating Type)
P	LQM/LQH	for Power Line

⑤ Category

Code	Category
N	Standard Type
B	Special Feature Classification

⑥ Inductance

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.

⑦ Inductance Tolerance

Code	Inductance Tolerance
D	±0.5nH
J	±5%
K	±10%
M	±20%
N	±30%

⑧ Features (Except for LQH□□P/LQM□□P)

Code	Features	Series
0	Standard Type	LQM/LQH*1 /LQW
1	Low DC Resistance	LQW
2	Standard Type	LQH32C
3	Low DC Resistance	LQH32C/43CN
5	Low Profile Type	LQH2MC/32C
7	Large Current Type	LQM21F
8	Low DC Resistance /Large Current Type	

*1 Except for LQH32 Series

⑨ Thickness (LQH□□P/LQM□□P Only • Except for LQH43P)

Code	Dimensions (T)
B	0.35mm
C	0.5mm
D	0.6mm
E	0.7mm
F	0.8mm
0	0.85mm
G	0.9mm
J	1.1mm
M	1.4mm
N	1.55mm
P	1.65mm
T	2.0mm


⑩ Electrode (Except for LQH□□P/LQM□□P)

•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQM/LQW
2		LQH2MC
3	LF Solder	LQH (Except for LQH2MC)

⑪ Specification (LQH□□P/LQM□□P Only • Except for LQH43P)

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

Continued on the following page. 

⑧⑨ Thickness (LQH43P Only)

Code	Dimensions (T)
26	2.6mm

⑩ Packaging

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	LQH*1 /LQM21*2
F		LQH3NP_MR
L	Embossed Taping (ø180mm Reel)	LQH*5/LQM18P/LQM21*2 /LQM31P/LQM2HP/LQM2MP
E		LQH3NP_MR
B	Bulk	LQH2MC/LQM/LQW
J	Paper Taping (ø330mm Reel)	LQM18/LQM21*3
D	Paper Taping (ø180mm Reel)	LQM18/LQM21*4 /LQW

*1 Except for LQH2MC/LQH2HP_G0/LQH3NP/LQH43C

*2 LQM21D(22 - 47μH)/LQM21F(4.7 - 47μH)

*3 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)

*4 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)/LQM21P

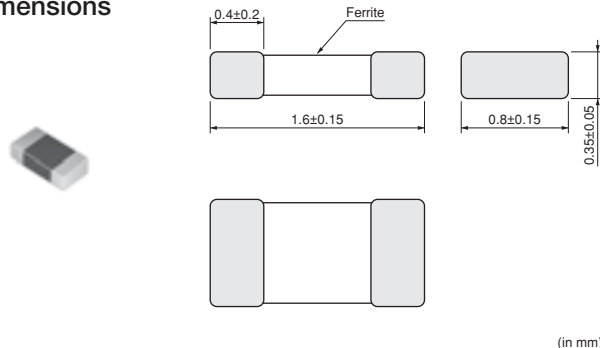
*5 Except for LQH3NP_MR

LQM18PN_B0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.4mm max. Thickness

■ Appearance/Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	4000
B	Packing in Bulk	1000



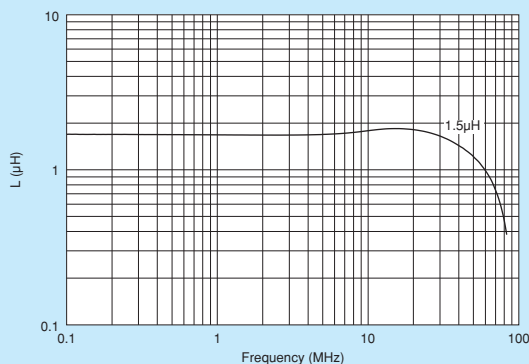
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

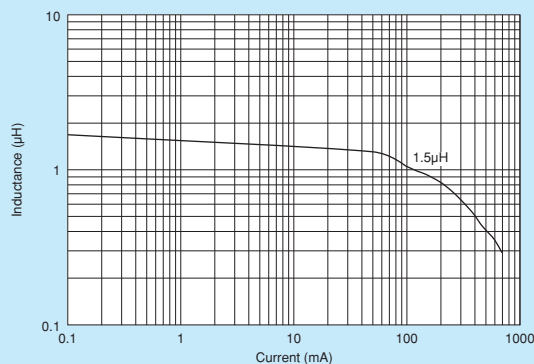
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM18PN1R5NB0□	1.5μH ±30%	1MHz	600mA	0.35Ω ±25%	50MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

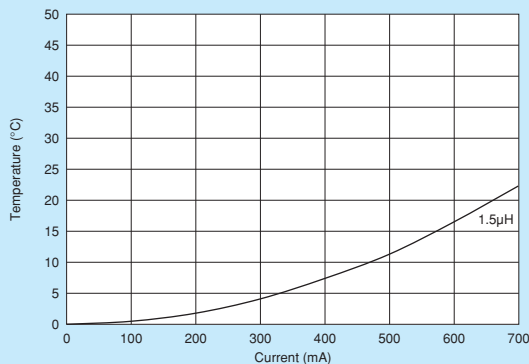
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)

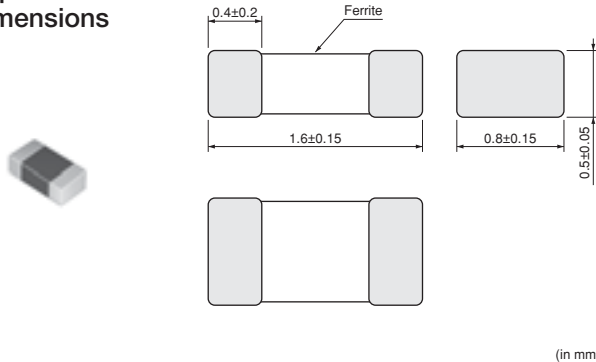


LQM18PN_C0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.55mm max. Thickness

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	4000
B	Packing in Bulk	1000



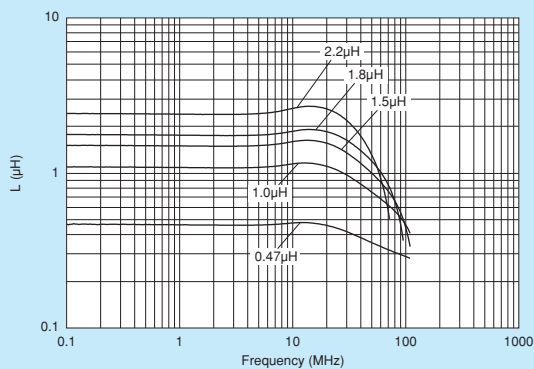
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

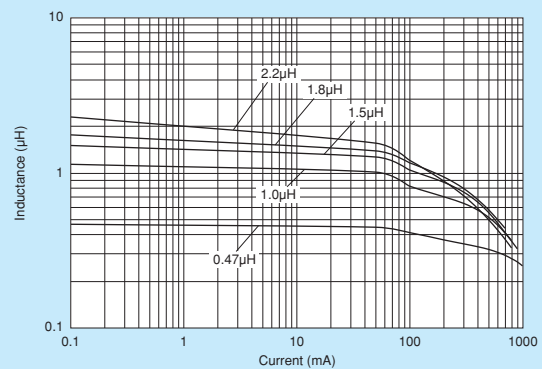
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM18PNR47NC0□	0.47μH ±30%	1MHz	850mA	0.15 Ω ±25%	50MHz	New
LQM18PN1R0NC0□	1.0μH ±30%	1MHz	750mA	0.20 Ω ±25%	50MHz	New
LQM18PN1R5NC0□	1.5μH ±30%	1MHz	720mA	0.22 Ω ±25%	50MHz	New
LQM18PN1R8NC0□	1.8μH ±30%	1MHz	700mA	0.24 Ω ±25%	50MHz	Kit
LQM18PN2R2NC0□	2.2μH ±30%	1MHz	700mA	0.24 Ω ±25%	50MHz	New

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

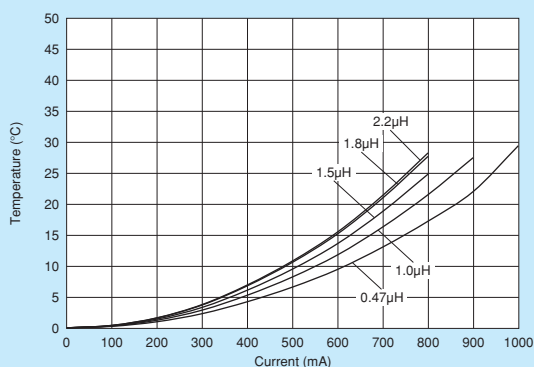
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



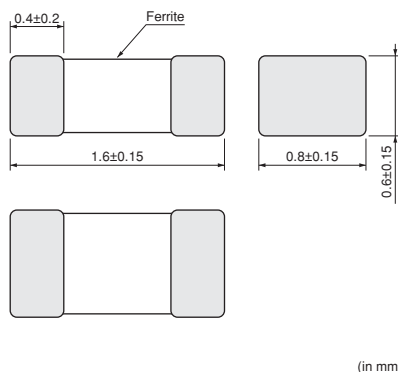
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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LQM18PN_D0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.75mm max. Thickness

Appearance/Dimensions



Packaging

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



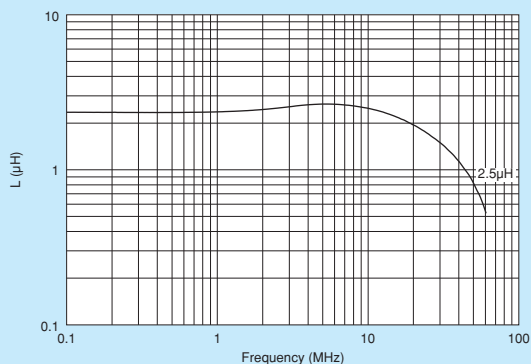
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

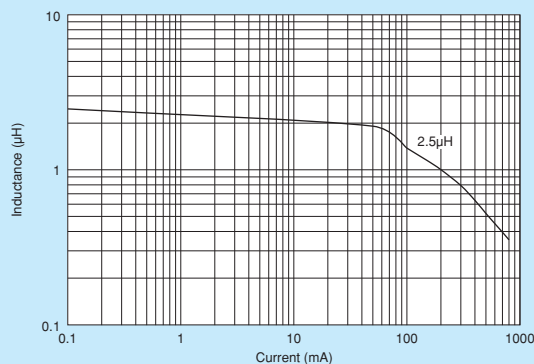
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM18PN2R5ND0□	2.5μH ±30%	1MHz	700mA	0.24Ω ±25%	60MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C

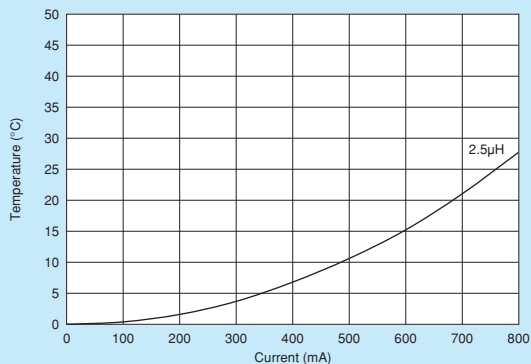
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

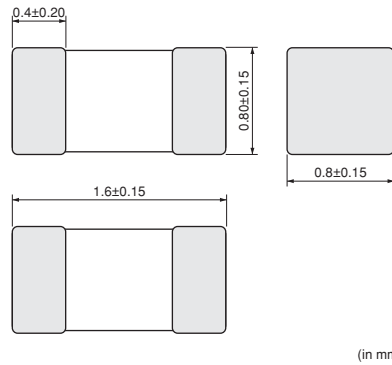


LQM18PN_F0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.95mm max. Thickness

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	4000
B	Packing in Bulk	1000



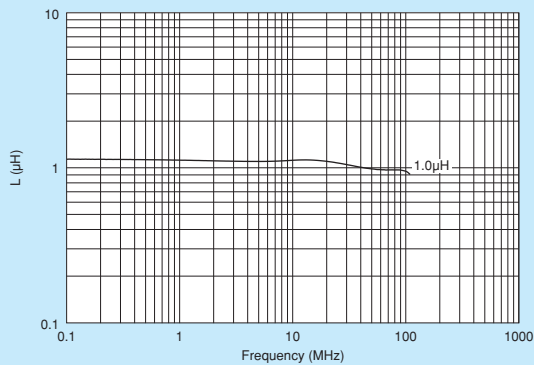
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

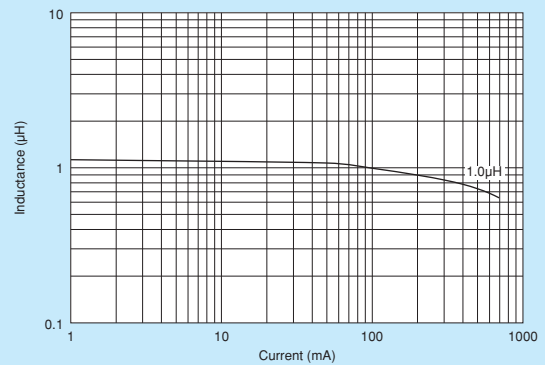
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM18PN1R0NF0□	$1.0\mu\text{H} \pm 30\%$	1MHz	600mA	$0.28\Omega \pm 25\%$	50MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

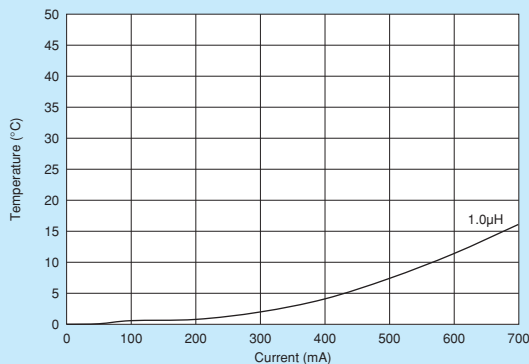
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

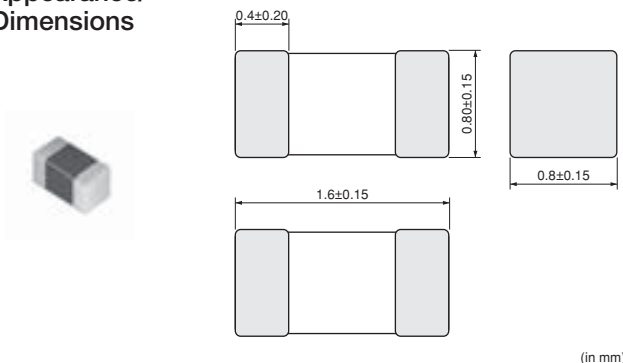


LQM18PN_FR

Series 0603/1608 (inch/mm)

Low DC Resistance Type

■ Appearance/Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	4000
B	Packing in Bulk	1000



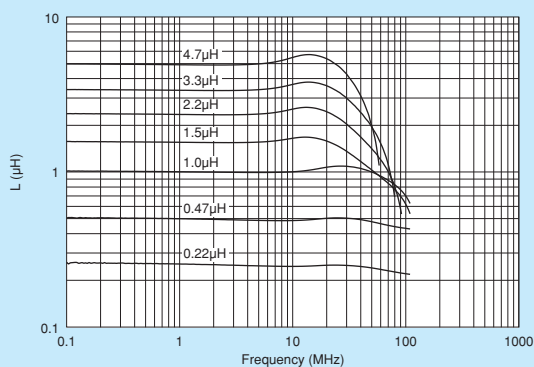
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

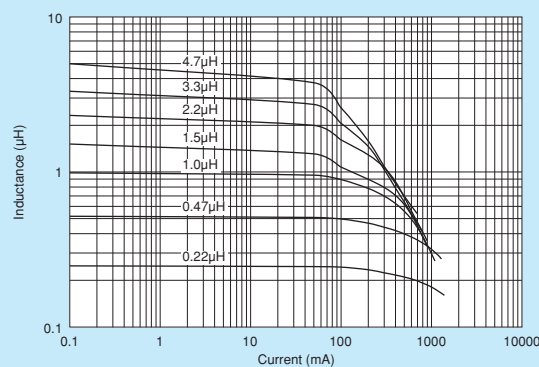
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM18PNR22NFR□	0.22μH ±30%	1MHz	1250mA	0.11 Ω ±25%	100MHz	Kit
LQM18PNR47NFR□	0.47μH ±30%	1MHz	1100mA	0.15 Ω ±25%	100MHz	Kit
LQM18PN1R0MFR□	1.0μH ±20%	1MHz	950mA	0.20 Ω ±25%	100MHz	Kit
LQM18PN1R5MFR□	1.5μH ±20%	1MHz	800mA	0.23 Ω ±25%	100MHz	Kit
LQM18PN2R2MFR□	2.2μH ±20%	1MHz	750mA	0.30 Ω ±25%	70MHz	Kit
LQM18PN3R3MFR□	3.3μH ±20%	1MHz	700mA	0.35 Ω ±25%	60MHz	Kit
LQM18PN4R7MFR□	4.7μH ±20%	1MHz	620mA	0.44 Ω ±25%	40MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C

■ Inductance-Frequency Characteristics (Typ.)



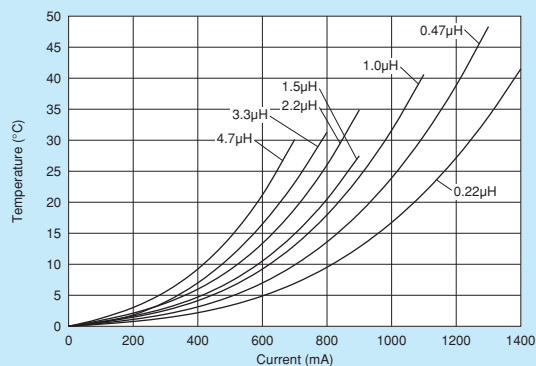
■ Inductance-Current Characteristics (Typ.)



Continued on the following page.

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■ Temperature Rise Characteristics (Typ.)

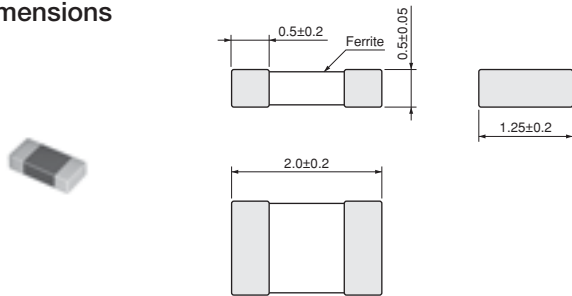


LQM21PN_C0

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm), 0.55mm max. Thickness

■ Appearance/Dimensions



(in mm)

■ Packaging

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



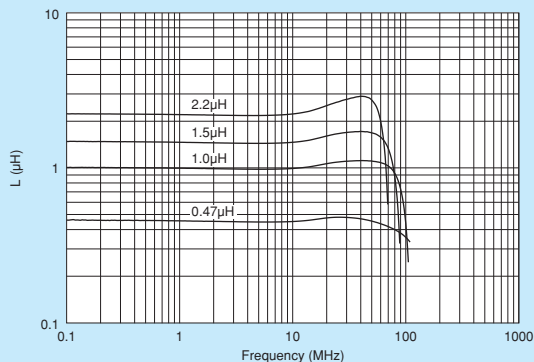
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

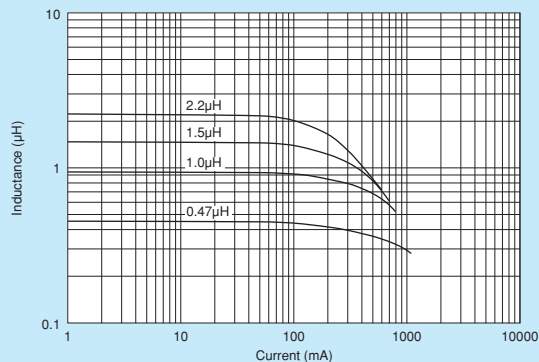
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM21PNR47MC0□	0.47μH ±20%	1MHz	1100mA	0.12Ω ±25%	100MHz	Kit
LQM21PN1R0MC0□	1.0μH ±20%	1MHz	800mA	0.19Ω ±25%	90MHz	Kit
LQM21PN1R5MC0□	1.5μH ±20%	1MHz	700mA	0.26Ω ±25%	70MHz	Kit
LQM21PN2R2MC0□	2.2μH ±20%	1MHz	600mA	0.34Ω ±25%	50MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

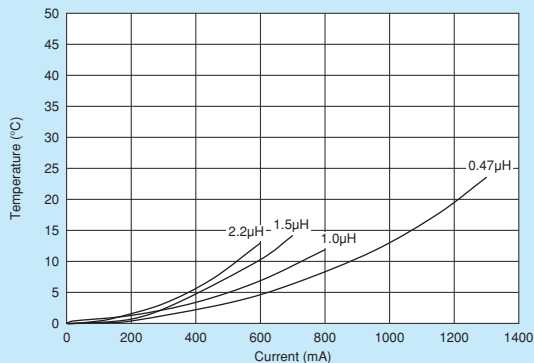
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



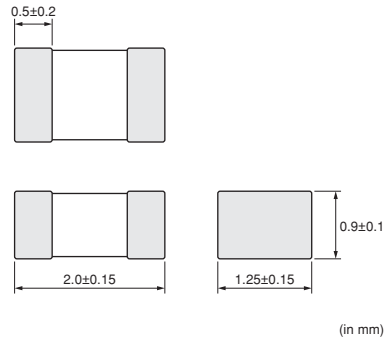
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LQM21PN_G0

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm), 1.0mm max. Thickness

Appearance/Dimensions



Packaging

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



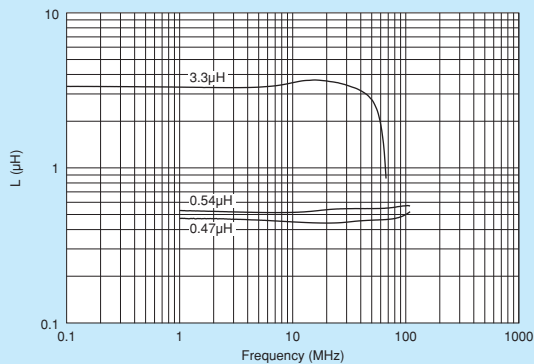
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

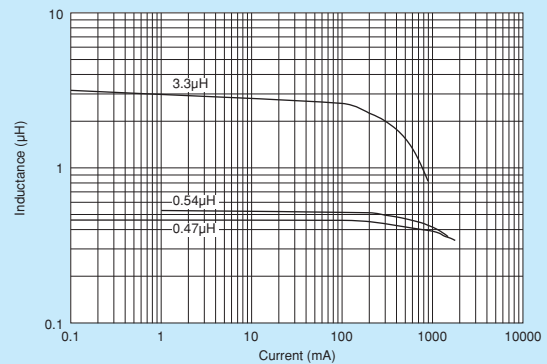
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM21PNR47MG0□	0.47μH ±20%	1MHz	1300mA	0.075Ω ±25%	100MHz	Kit
LQM21PNR54MG0□	0.54μH ±20%	1MHz	1300mA	0.075Ω ±25%	100MHz	Kit
LQM21PN3R3MG0□	3.3μH ±20%	1MHz	800mA	0.165Ω ±25%	30MHz	Kit
LQM21PN3R3NG0□	3.3μH ±30%	1MHz	800mA	0.165Ω ±25%	30MHz	

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

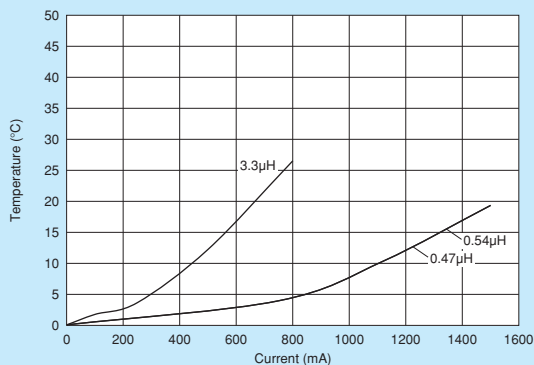
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

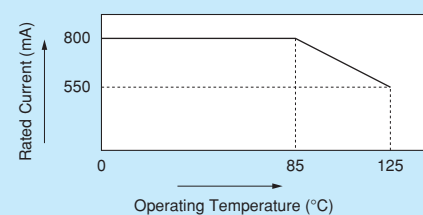


Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQM21PN3R3MG0/LQM21PN3R3NG0. Please apply the derating curve shown in the chart according to the operating temperature.

Derating of Rated Current

(LQM21PN3R3MG0/LQM21PN3R3NG0)



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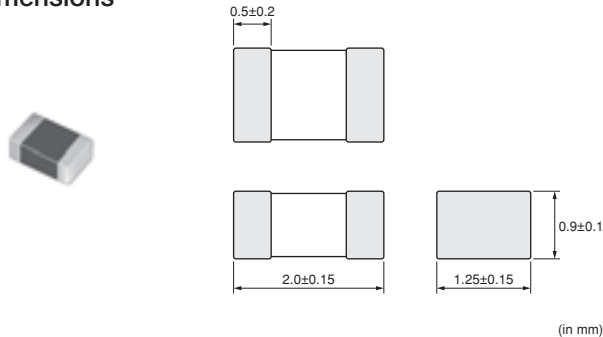
Multilayer Type (Ferrite Core)

LQM21PN_GS

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm), 1.0mm max. Thickness

Appearance/Dimensions



Packaging

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



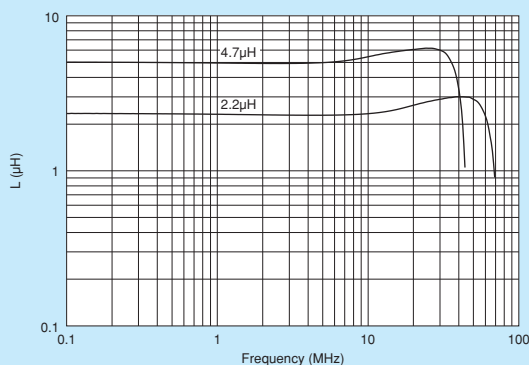
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

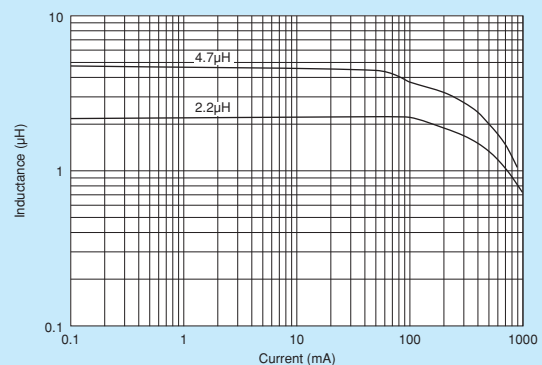
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM21PN2R2MGS□	2.2μH ±20%	1MHz	950mA	0.180 Ω ±25%	40MHz	Kit
LQM21PN4R7MGS□	4.7μH ±20%	1MHz	750mA	0.290 Ω ±25%	20MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C

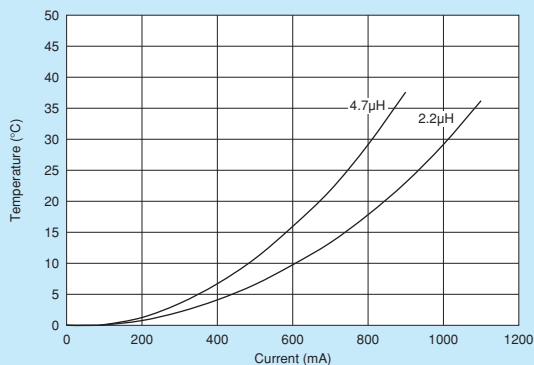
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



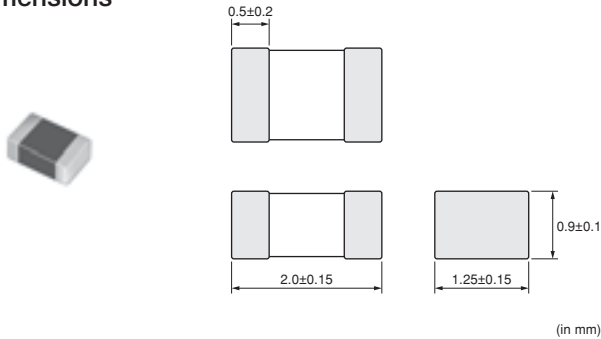
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LQM21PN_GC

Series 0805/2012 (inch/mm)

Bias Current Characteristics Improved

■ Appearance/Dimensions



■ Packaging

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



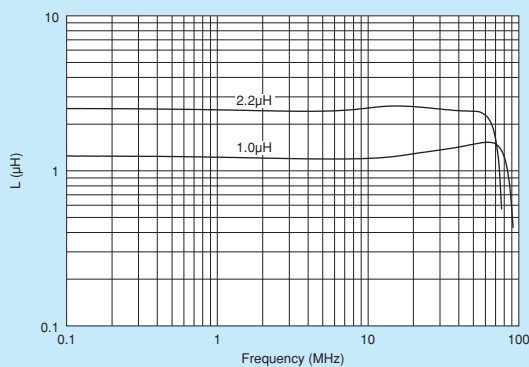
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

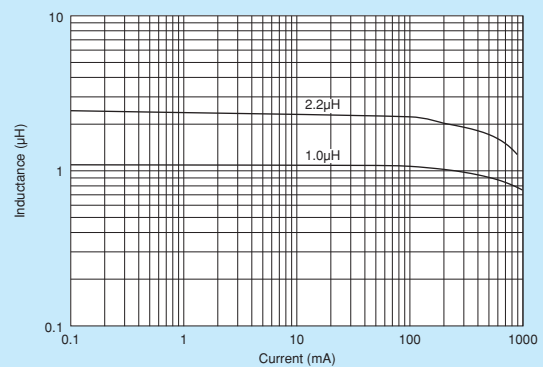
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM21PN1R0NGC□	1.0μH ±30%	1MHz	900mA	0.10Ω ±25%	50MHz	Kit
LQM21PN2R2NGC□	2.2μH ±30%	1MHz	800mA	0.23Ω ±25%	40MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

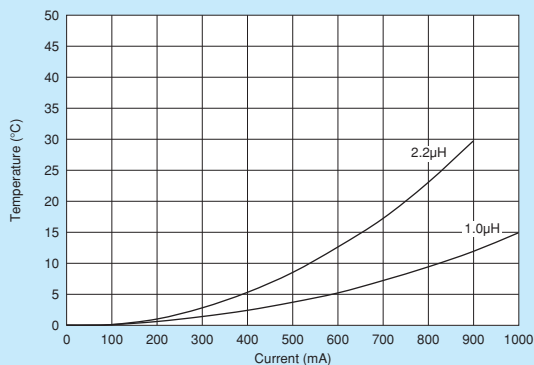
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)

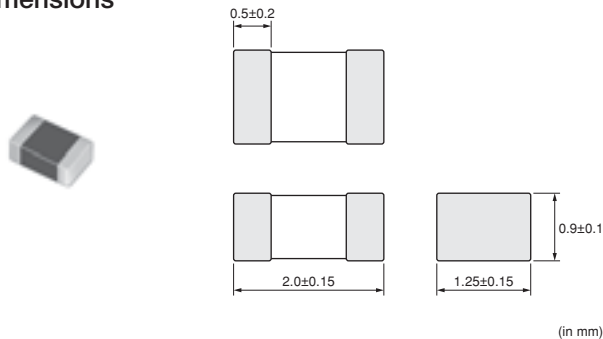


LQM21PN_GR

Series 0805/2012 (inch/mm)

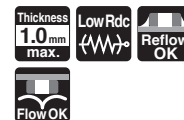
Low DC Resistance Type

■ Appearance/Dimensions



■ Packaging

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



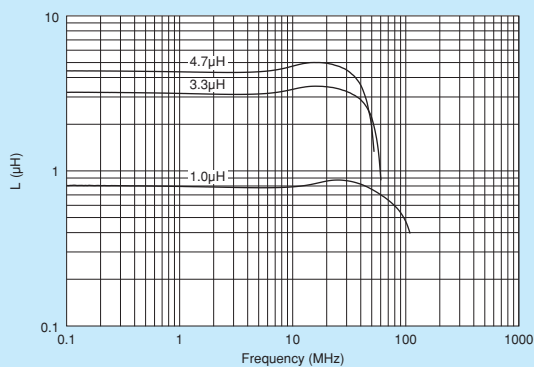
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

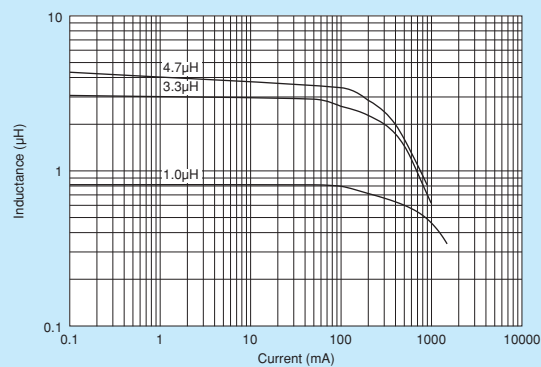
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM21PN1R0NGR□	1.0μH ±30%	1MHz	1300mA	0.066 Ω ±25%	50MHz	Kit
LQM21PN3R3MGR□	3.3μH ±20%	1MHz	1000mA	0.150 Ω ±25%	30MHz	Kit
LQM21PN3R3NGR□	3.3μH ±30%	1MHz	1000mA	0.150 Ω ±25%	30MHz	
LQM21PN4R7MGR□	4.7μH ±20%	1MHz	800mA	0.23 Ω ±25%	30MHz	Kit
LQM21PN4R7NGR□	4.7μH ±30%	1MHz	800mA	0.23 Ω ±25%	30MHz	

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

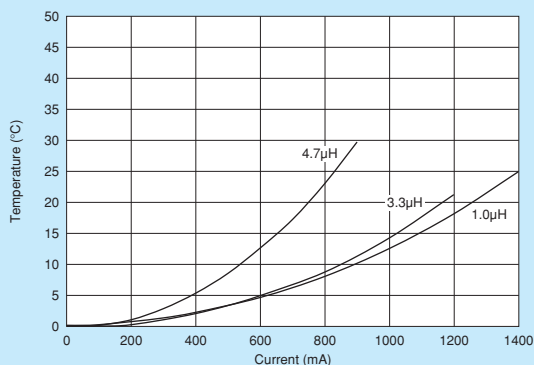
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



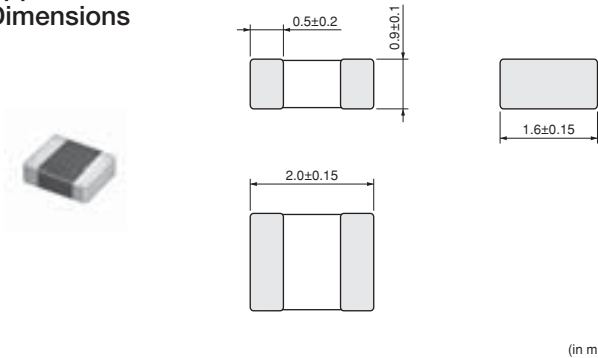
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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LQM2MPN_G0

Series 0806/2016 (inch/mm)

Size Code 0806 (2016) in inch (in mm), 1.0mm max. Thickness

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



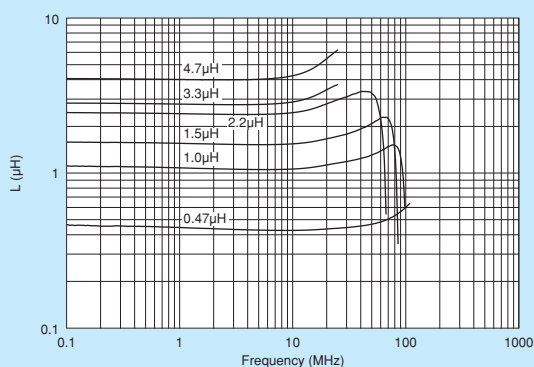
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

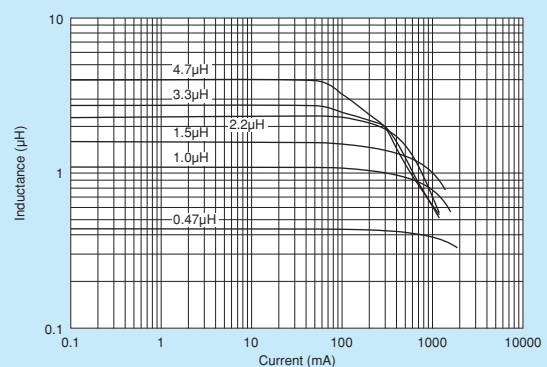
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM2MPNR47MG0□	0.47μH ±20%	1MHz	1600mA	0.060Ω ±25%	100MHz	Kit
LQM2MPNR47NG0□	0.47μH ±30%	1MHz	1600mA	0.060Ω ±25%	100MHz	
LQM2MPN1R0NG0□	1.0μH ±30%	1MHz	1400mA	0.085Ω ±25%	60MHz	Kit
LQM2MPN1R5MG0□	1.5μH ±20%	1MHz	1200mA	0.11Ω ±25%	50MHz	Kit
LQM2MPN1R5NG0□	1.5μH ±30%	1MHz	1200mA	0.11Ω ±25%	50MHz	
LQM2MPN2R2MG0□	2.2μH ±20%	1MHz	1200mA	0.11Ω ±25%	40MHz	Kit
LQM2MPN2R2NG0□	2.2μH ±30%	1MHz	1200mA	0.11Ω ±25%	40MHz	
LQM2MPN3R3NG0□	3.3μH ±30%	1MHz	1200mA	0.12Ω ±25%	30MHz	Kit
LQM2MPN4R7MG0□	4.7μH ±20%	1MHz	1100mA	0.14Ω ±25%	20MHz	Kit
LQM2MPN4R7NG0□	4.7μH ±30%	1MHz	1100mA	0.14Ω ±25%	20MHz	

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

Inductance-Frequency Characteristics (Typ.)



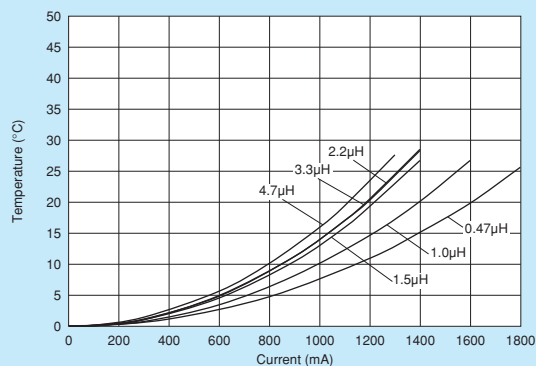
Inductance-Current Characteristics (Typ.)



Continued on the following page.

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■ Temperature Rise Characteristics (Typ.)

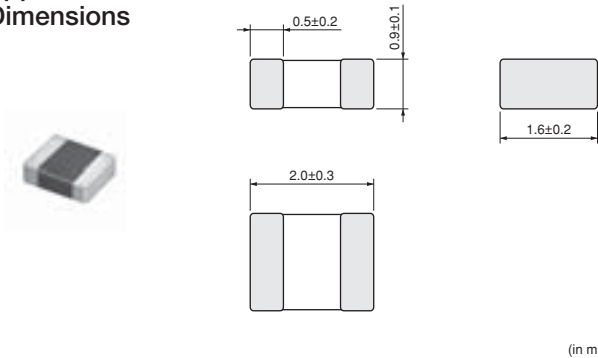


LQM2MPN_GH

Series 0806/2016 (inch/mm)

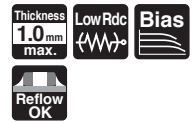
High Spec Type (Low DC Resistance / Good Bias Current Characteristics Type)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000



Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

Part Number	Inductance	Rated Current ^{*1*3} (Based on Inductance Change)	Rated Current ^{*2*3} (Based on Temperature Rise)	Max. of DC Resistance	Self-Resonance Frequency (min.)	
LQM2MPNR16MGH□	0.16μH ±20%	5.0A(Max)/5.5A(Typ.)	4.0A(Max)/5.0A(Typ.)	18mΩ (Max)/14mΩ (Typ.)	150MHz	New
LQM2MPNR24MGH□	0.24μH ±20%	4.8A(Max)/5.0A(Typ.)	3.4A(Max)/4.4A(Typ.)	25mΩ (Max)/20mΩ (Typ.)	130MHz	New
LQM2MPNR33MGH□	0.33μH ±20%	3.7A(Max)/3.9A(Typ.)	3.1A(Max)/4.0A(Typ.)	30mΩ (Max)/24mΩ (Typ.)	90MHz	New
LQM2MPNR47MGH□	0.47μH ±20%	3.4A(Max)/3.6A(Typ.)	2.5A(Max)/3.2A(Typ.)	46mΩ (Max)/37mΩ (Typ.)	80MHz	New
LQM2MPNR68MGH□	0.68μH ±20%	3.1A(Max)/3.4A(Typ.)	1.9A(Max)/2.5A(Typ.)	75mΩ (Max)/60mΩ (Typ.)	60MHz	New
LQM2MPN1R0MGH□	1.0μH ±20%	2.0A(Max)/2.3A(Typ.)	1.9A(Max)/2.4A(Typ.)	80mΩ (Max)/64mΩ (Typ.)	60MHz	New
LQM2MPN1R5MGH□	1.5μH ±20%	1.8A(Max)/2.0A(Typ.)	1.5A(Max)/1.9A(Typ.)	130mΩ (Max)/104mΩ (Typ.)	50MHz	New
LQM2MPN2R2MGH□	2.2μH ±20%	1.3A(Max)/1.5A(Typ.)	1.0A(Max)/1.3A(Typ.)	263mΩ (Max)/210mΩ (Typ.)	40MHz	New

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range: -40°C~+85°C

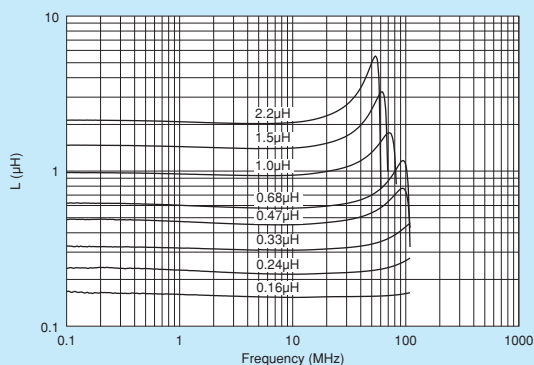
For reflow soldering only.

*1 When applied rated current to the products, inductance will be within -30% of initial inductance value. Typical value is actual performance.

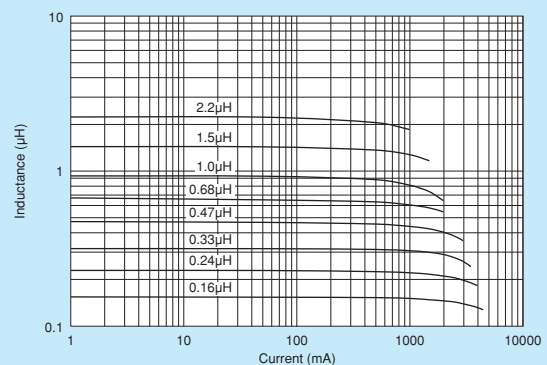
*2 When applied rated current to the products, temperature rise caused by self heating will be 40°C or less. Typical value is actual performance.

*3 Keep the temperature of product (ambient temperature plus self-generation of heat) under 125°C.

Inductance-Frequency Characteristics (Typ.)



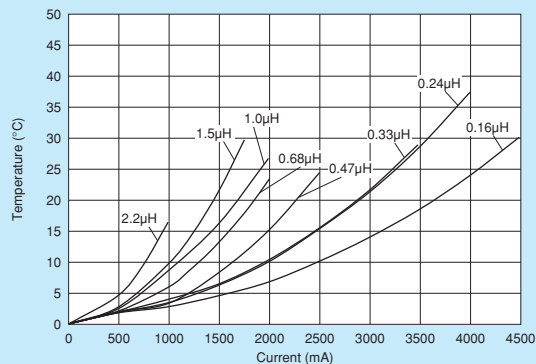
Inductance-Current Characteristics (Typ.)



Continued on the following page.

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■ Temperature Rise Characteristics (Typ.)

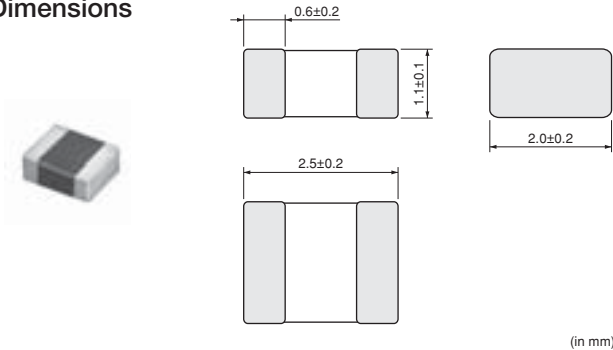


LQM2HPN_J0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.2mm max. Thickness

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



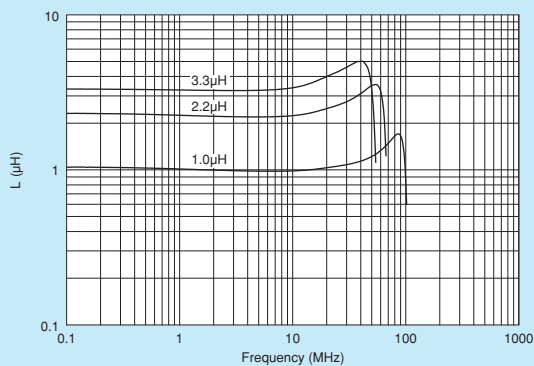
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

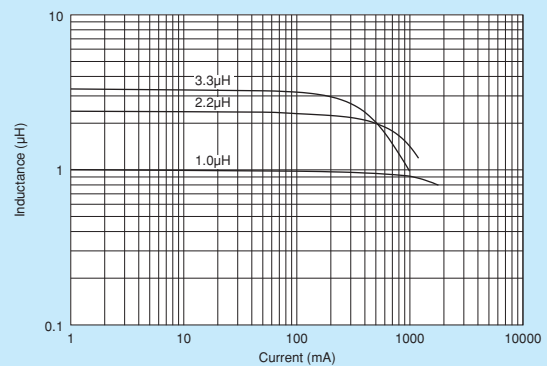
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM2HPN1R0MJ0□	1.0μH ±20%	1MHz	1500mA	0.09 Ω ±25%	70MHz	Kit
LQM2HPN2R2MJ0□	2.2μH ±20%	1MHz	1000mA	0.12 Ω ±25%	40MHz	Kit
LQM2HPN3R3MJ0□	3.3μH ±20%	1MHz	1000mA	0.12 Ω ±25%	30MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

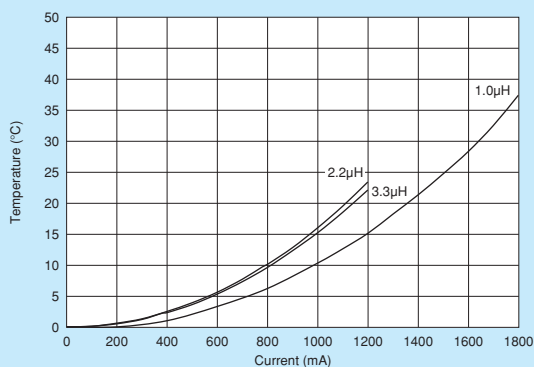
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

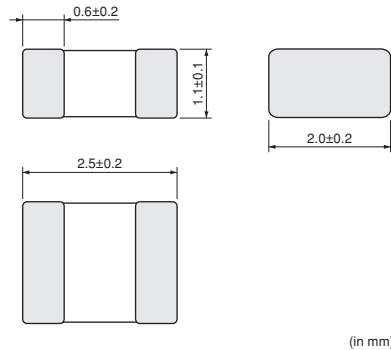


Multilayer Type (Ferrite Core)

LQM2HPN_JH

Series 1008/2520 (inch/mm)

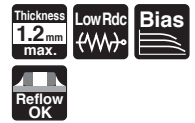
High Spec Type (Low DC Resistance / Good Bias Current Characteristics Type)

■ Appearance/
Dimensions

(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000



Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

Part Number	Inductance	Rated Current ^{*1*3} (Based on Inductance Change)	Rated Current ^{*2*3} (Based on Temperature Rise)	Max. of DC Resistance	Self-Resonance Frequency (min.)	
LQM2HPNR47MJH□	0.47μH ±20%	3.2A(Max)/3.5A(Typ.)	2.7A(Max)/3.4A(Typ.)	46mΩ (Max)/37mΩ (Typ.)	70MHz	New
LQM2HPN1R0MJH□	1.0μH ±20%	2.1A(Max)/2.4A(Typ.)	2.3A(Max)/2.9A(Typ.)	63mΩ (Max)/50mΩ (Typ.)	50MHz	New
LQM2HPN2R2MJH□	2.2μH ±20%	1.4A(Max)/1.6A(Typ.)	1.5A(Max)/1.9A(Typ.)	138mΩ (Max)/110mΩ (Typ.)	30MHz	New

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range: -40°C~+85°C

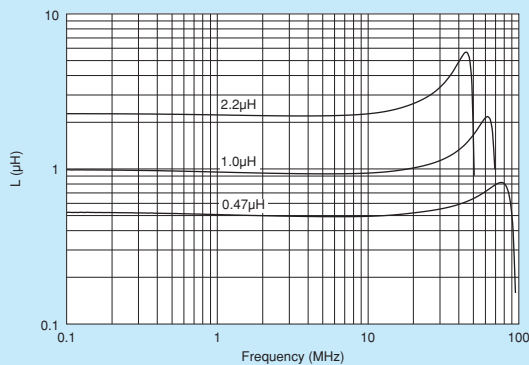
For reflow soldering only.

*1 When applied rated current to the products, inductance will be within -30% of initial inductance value. Typical value is actual performance.

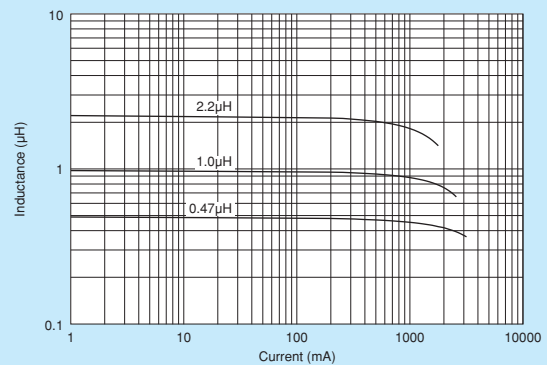
*2 When applied rated current to the products, temperature rise caused by self heating will be 40°C or less. Typical value is actual performance.

*3 Keep the temperature of product (ambient temperature plus self-generation of heat) under 125°C.

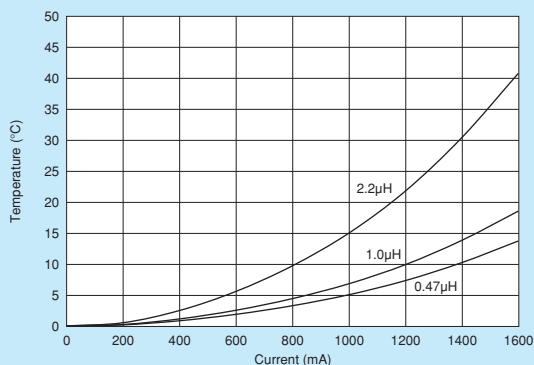
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



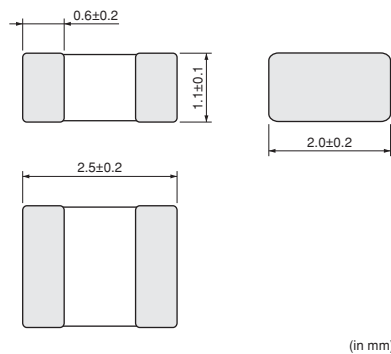
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LQM2HPN_JC

Series 1008/2520 (inch/mm)

Bias Current Characteristics Improved

■ Appearance/Dimensions



(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



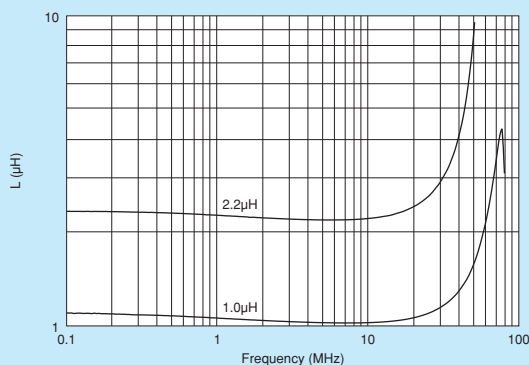
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

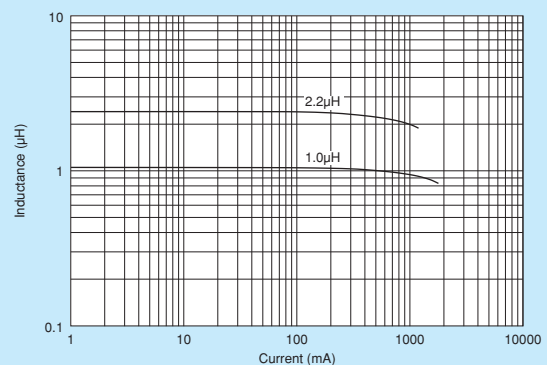
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM2HPN1R0MJC□	1.0μH ±20%	1MHz	1500mA	0.086Ω ±25%	50MHz	Kit
LQM2HPN2R2NJC□	2.2μH ±30%	1MHz	1000mA	0.175Ω ±25%	30MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

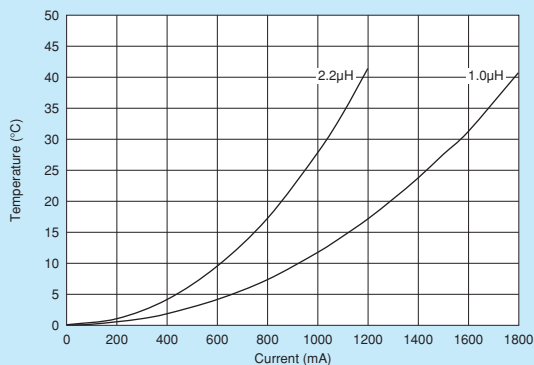
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)

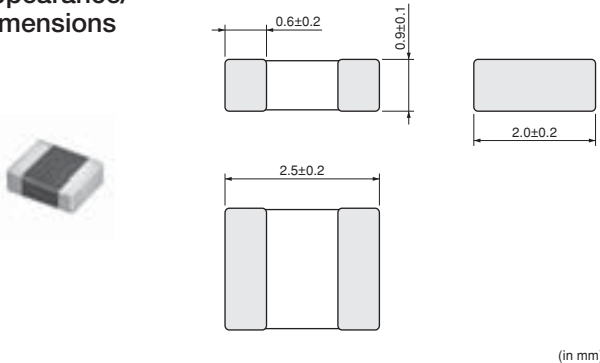


Multilayer Type (Ferrite Core)

LQM2HPN_G0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.0mm max. Thickness

■ Appearance/
Dimensions

■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



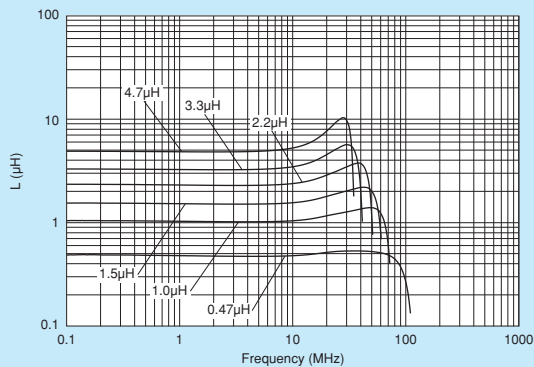
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

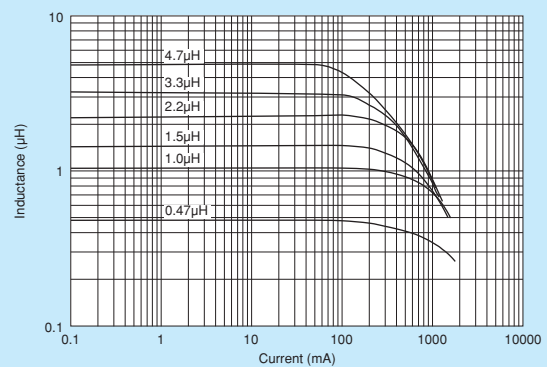
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM2HPNR47MG0□	0.47μH ±20%	1MHz	1800mA	0.04 Ω ±25%	100MHz	Kit
LQM2HPN1R0MG0□	1.0μH ±20%	1MHz	1600mA	0.055 Ω ±25%	60MHz	Kit
LQM2HPN1R5MG0□	1.5μH ±20%	1MHz	1500mA	0.07 Ω ±25%	50MHz	Kit
LQM2HPN2R2MG0□	2.2μH ±20%	1MHz	1300mA	0.08 Ω ±25%	40MHz	Kit
LQM2HPN3R3MG0□	3.3μH ±20%	1MHz	1200mA	0.10 Ω ±25%	30MHz	Kit
LQM2HPN4R7MG0□	4.7μH ±20%	1MHz	1100mA	0.11 Ω ±25%	25MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

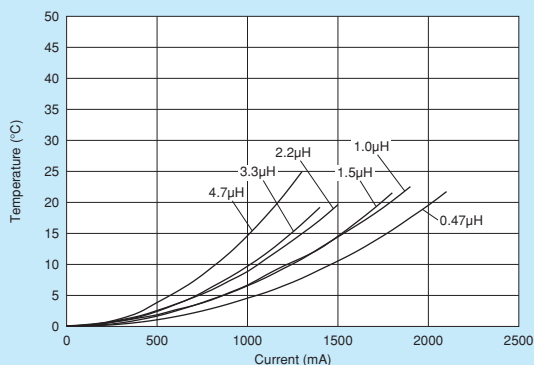
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



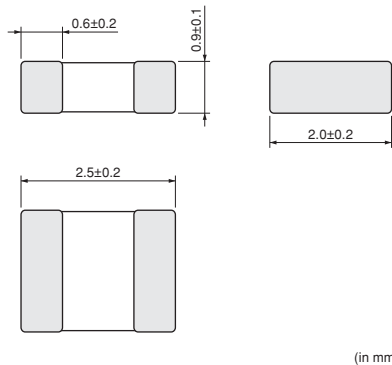
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LQM2HPN_GS

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.0mm max. Thickness

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



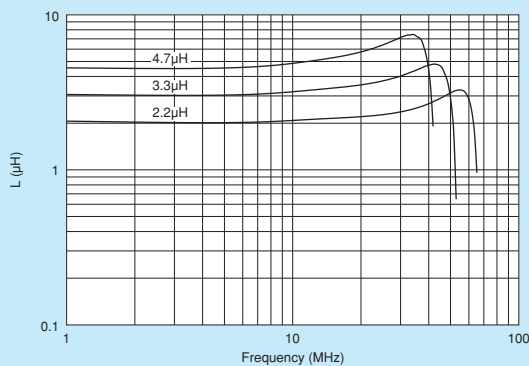
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

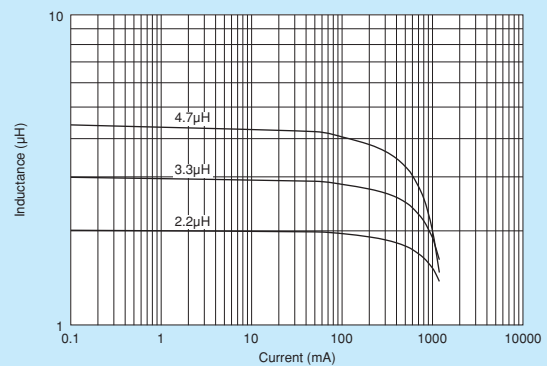
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM2HPN2R2MGS□	2.2μH ±20%	1MHz	1100mA	0.18Ω ±25%	40MHz	Kit
LQM2HPN3R3MGS□	3.3μH ±20%	1MHz	1050mA	0.21Ω ±25%	20MHz	Kit
LQM2HPN4R7MGS□	4.7μH ±20%	1MHz	1000mA	0.25Ω ±25%	20MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C

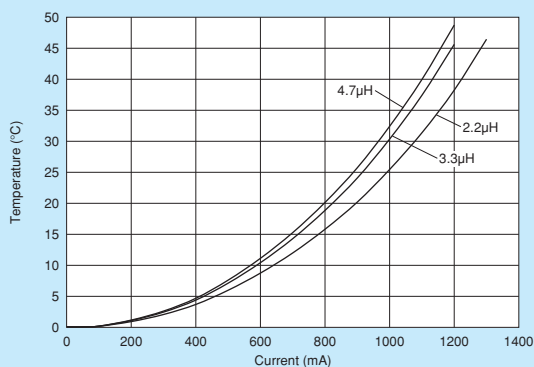
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)

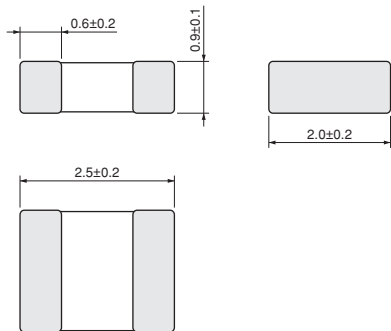


LQM2HPN_GC

Series 1008/2520 (inch/mm)

Bias Current Characteristics Improved

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



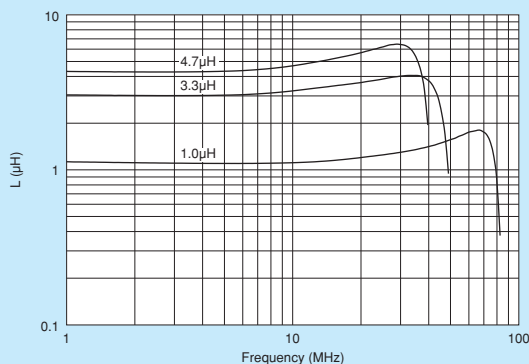
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

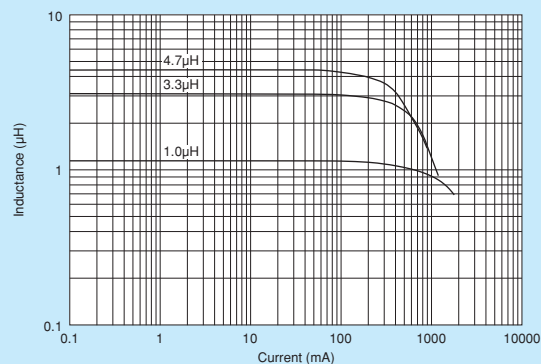
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	Operating Temperature Range	
LQM2HPN1R0MGC□	1.0μH ±20%	1MHz	1500mA	0.08Ω ±25%	50MHz	-30°C~+85°C	Kit
LQM2HPN3R3MGC□	3.3μH ±20%	1MHz	1000mA	0.16Ω ±25%	30MHz	-55°C~+125°C	Kit
LQM2HPN4R7MGC□	4.7μH ±20%	1MHz	800mA	0.18Ω ±25%	25MHz	-55°C~+125°C	Kit

Class of Magnetic Shield: Magnetic shield of ferrite

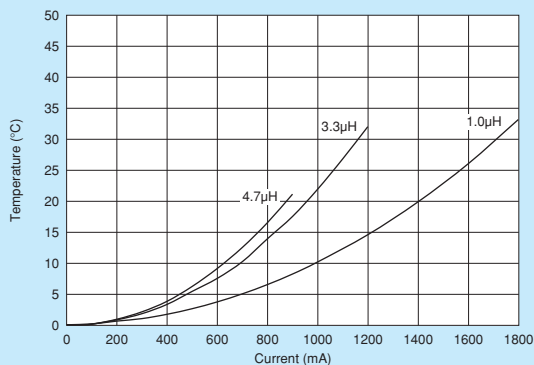
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



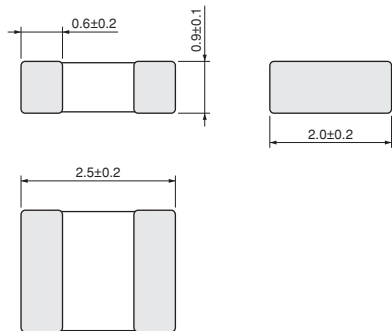
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LQM2HPN_GH

Series 1008/2520 (inch/mm)

High Spec Type (Low DC Resistance / Good Bias Current Characteristics Type)

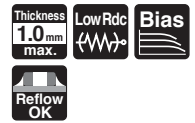
Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000



Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

Part Number	Inductance	Rated Current *1*3 (Based on Inductance Change)	Rated Current *2*3 (Based on Temperature Rise)	Max. of DC Resistance	Self-Resonance Frequency (min.)	
LQM2HPNR47MGH□	0.47μH ±20%	4.5A(Max)/4.8A(Typ.)	2.6A(Max)/3.3A(Typ.)	50mΩ (Max)/40mΩ (Typ.)	80MHz	New
LQM2HPNR68MGH□	0.68μH ±20%	4.0A(Max)/3.8A(Typ.)	2.3A(Max)/2.9A(Typ.)	63mΩ (Max)/50mΩ (Typ.)	60MHz	New
LQM2HPN1R0MGH□	1.0μH ±20%	2.0A(Max)/2.3A(Typ.)	2.3A(Max)/2.9A(Typ.)	63mΩ (Max)/50mΩ (Typ.)	50MHz	New
LQM2HPN1R5MGH□	1.5μH ±20%	1.5A(Max)/1.6A(Typ.)	2.0A(Max)/2.6A(Typ.)	81mΩ (Max)/65mΩ (Typ.)	40MHz	New
LQM2HPN2R2MGH□	2.2μH ±20%	1.5A(Max)/1.6A(Typ.)	1.5A(Max)/1.9A(Typ.)	138mΩ (Max)/110mΩ (Typ.)	30MHz	New

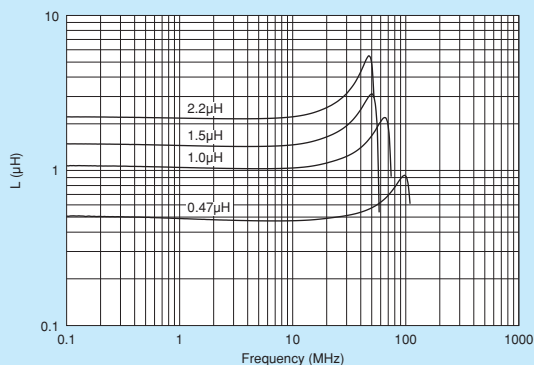
Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C For reflow soldering only.

*1 When applied rated current to the products, inductance will be within -30% of initial inductance value. Typical value is actual performance.

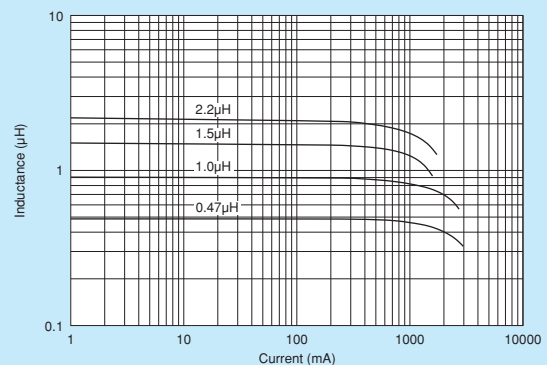
*2 When applied rated current to the products, temperature rise caused by self heating will be 40°C or less. Typical value is actual performance.

*3 Keep the temperature of product (ambient temperature plus self-generation of heat) under 125°C.

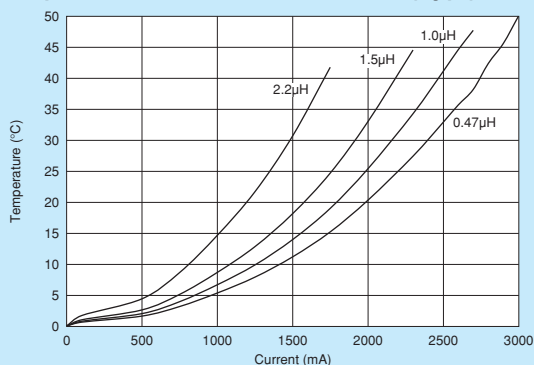
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



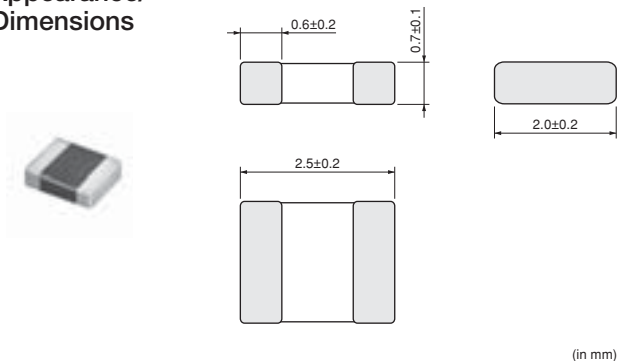
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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LQM2HPN_E0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 0.8mm max. Thickness

■ Appearance/Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



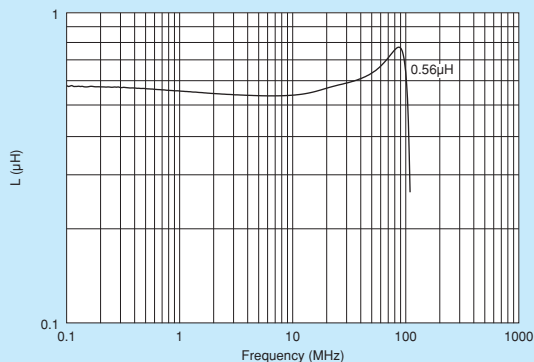
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

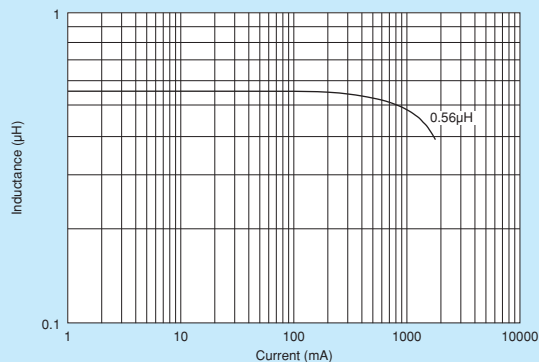
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM2HPNR56ME0□	0.56μH ±20%	1MHz	1500mA	0.06 Ω ±25%	70MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

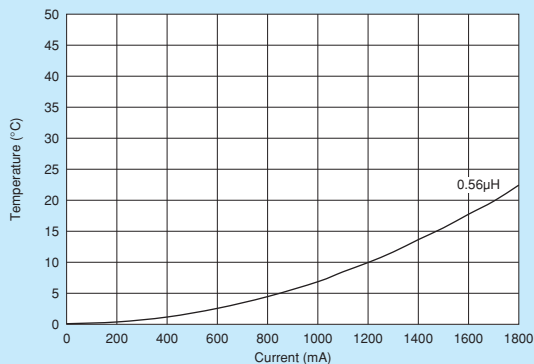
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)

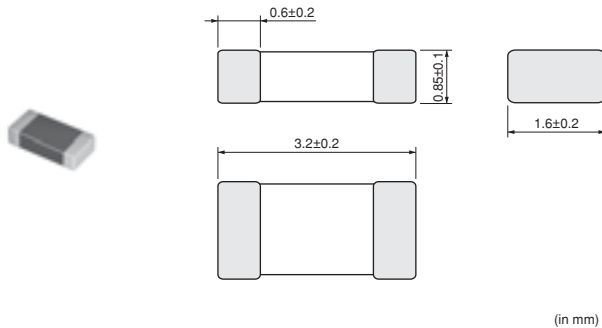


LQM31PN_00

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm), 0.95mm max. Thickness

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



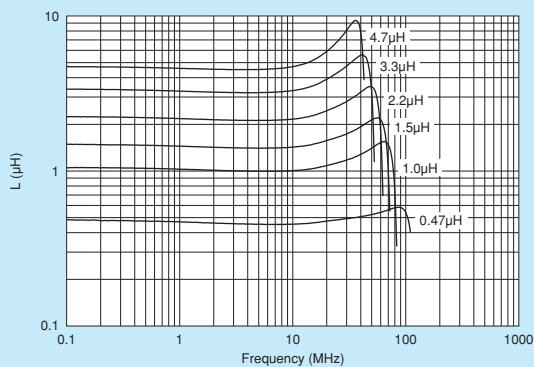
Refer to pages 102 to 106 for mounting information.

Rated Value (□: packaging code)

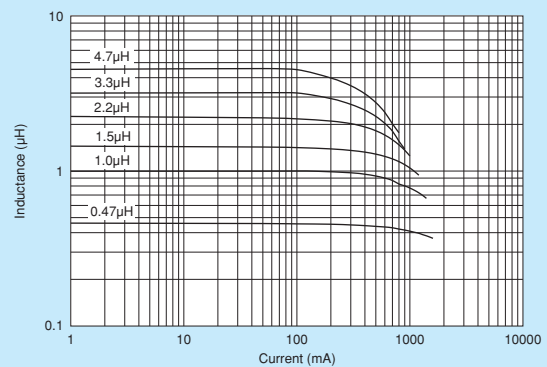
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM31PNR47M00□	0.47μH ±20%	1MHz	1400mA	0.07 Ω ±25%	80MHz	Kit
LQM31PN1R0M00□	1.0μH ±20%	1MHz	1200mA	0.12 Ω ±25%	60MHz	Kit
LQM31PN1R5M00□	1.5μH ±20%	1MHz	1000mA	0.14 Ω ±25%	50MHz	Kit
LQM31PN2R2M00□	2.2μH ±20%	1MHz	900mA	0.19 Ω ±25%	40MHz	Kit
LQM31PN3R3M00□	3.3μH ±20%	1MHz	800mA	0.24 Ω ±25%	30MHz	Kit
LQM31PN4R7M00□	4.7μH ±20%	1MHz	700mA	0.30 Ω ±25%	25MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

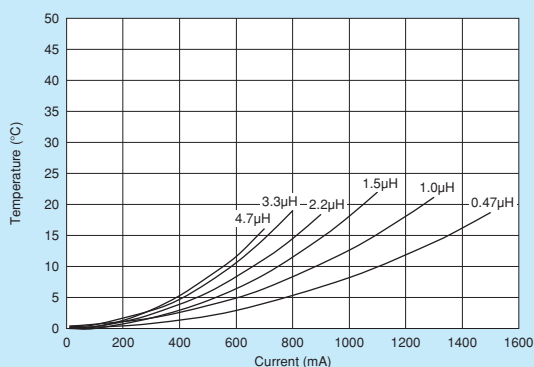
Inductance-Frequency Characteristics (Typ.)



Inductance-Current Characteristics (Typ.)



Temperature Rise Characteristics (Typ.)



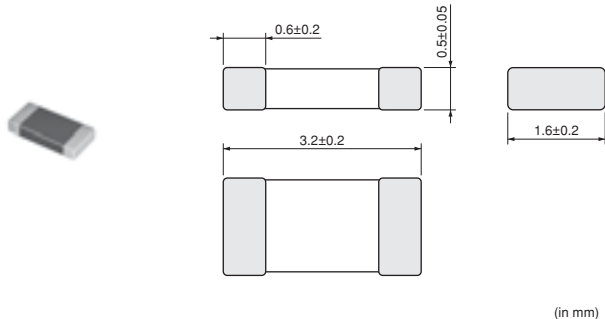
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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LQM31PN_C0

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm), 0.55mm max. Thickness

■ Appearance/Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	4000
B	Packing in Bulk	1000



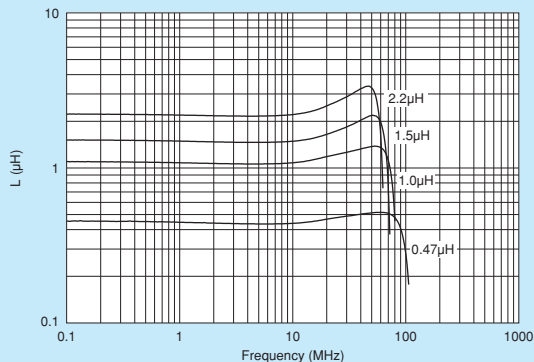
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

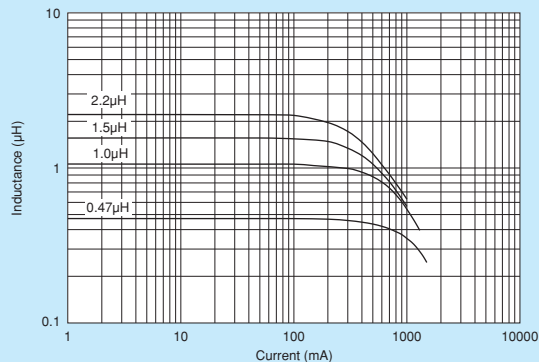
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM31PNR47MC0□	0.47μH ±20%	1MHz	1300mA	0.085Ω ±25%	90MHz	Kit
LQM31PN1R0MC0□	1.0μH ±20%	1MHz	1100mA	0.14Ω ±25%	70MHz	Kit
LQM31PN1R5MC0□	1.5μH ±20%	1MHz	1000mA	0.17Ω ±25%	60MHz	Kit
LQM31PN2R2MC0□	2.2μH ±20%	1MHz	900mA	0.25Ω ±25%	50MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

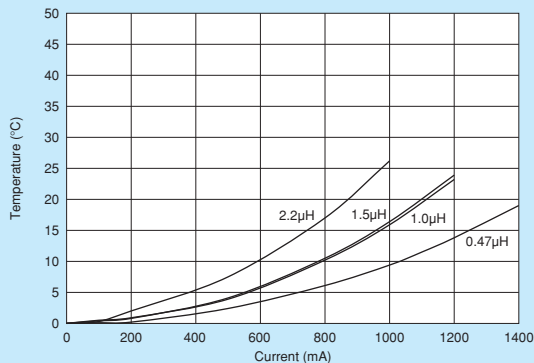
■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)



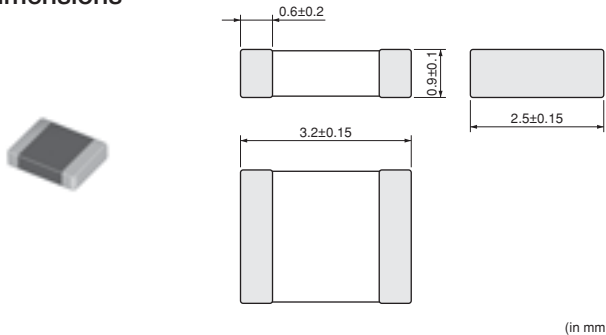
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
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LQM32PN_G0

Series 1210/3225 (inch/mm)

Size Code 1210 (3225) in inch (in mm), 0.55mm max. Thickness

■ Appearance/Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000



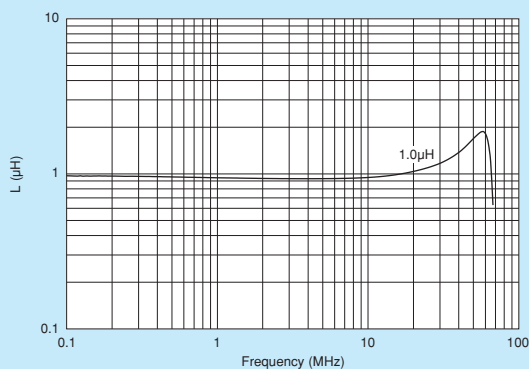
Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

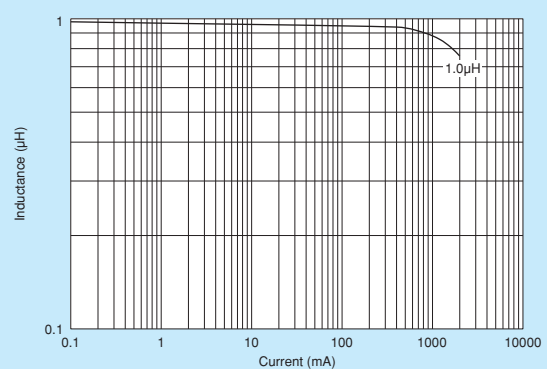
Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)	
LQM32PN1R0MG0□	1.0μH ±20%	1MHz	1800mA	0.048Ω ±25%	40MHz	Kit

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C
For reflow soldering only.

■ Inductance-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)



■ Temperature Rise Characteristics (Typ.)

