

	Series	Structure	Size Code in inch (in mm)	Inductance Range (H)										Rated Current (A)						
				0.1n	1n	10n	100n	1μ	10μ	100μ	1m	10m	10m	100m	1	10	100			
Inductors for Power Lines	DFE252008C	p310	1008 (2520)					470nH	4.7μH									1.1A	3A	
	DFE252010C	p312	1008 (2520)					470nH	10μH									1A	3.5A	
	DFE252010F	p344	1008 (2520)					330nH	10μH									1.3A	6.8A	
	DFE252010P	p332	1008 (2520)					330nH	4.7μH									1.7A	5.7A	
	DFE252010R	p324	1008 (2520)					1μH	4.7μH									1.4A	3A	
	DFE252012C	p314	1008 (2520)					470nH	10μH									1A	3.8A	
	DFE252012F	p346	1008 (2520)					330nH	10μH									1.4A	7.6A	
	DFE252012P	p334	1008 (2520)					330nH	4.7μH									2A	6.6A	
	DFE252012R	p326	1008 (2520)					1μH	4.7μH									1.7A	3.4A	
	DFE322510C	p316	1210 (3225)					470nH	10μH									1A	3.8A	
	DFE322512C	p318	1210 (3225)					470nH	10μH									1.2A	4.7A	
	DFE322512F	p348	1210 (3225)					470nH	10μH									1.7A	6.7A	
	FDS0412	p350	1515 (4040)					330nH	4.7μH									2.5A	7.5A	
	FDS0415	p352	1515 (4040)					220nH	4.7μH									2.9A	12A	
	FDS0420	p354	1515 (4040)					470nH	330μH									2.5A	11A	
	FDS0512	p356	2019 (5249)					1μH	6.8μH									2.3A	6.1A	
	FDS0515	p358	2019 (5249)					1μH	4.7μH									3.2A	7A	
	FDS0518	p360	2019 (5249)					680nH	10μH									2.7A	9A	
	FDV0530	p364	2322 (5856)					110nH	4.7μH									3.6A	19.6A	
	FCUL0530	p378	2322 (5857)					360nH	470nH									16A	18A	
	FCUL0624	p380	2726 (6866)					220nH	470nH									17A	24A	
	FCUL0630	p382	2726 (6866)					120nH	680nH									15A	32A	
	FDUE0640	p369	2726 (6967)					150nH	420nH									22A	33A	
	FDUE0650	p370	2726 (6967)					600nH	1μH									16A	18A	
	FDV0618	p365	2726 (6967)					240nH	3.3μH									4.1A	14A	
	FDV0620	p366	2726 (6967)					200nH	4.7μH									3.5A	16.2A	
	FDVE0630	p367	2726 (6967)					160nH	10μH									3.1A	20.7A	
	FDS0630	p362	2726 (7066)					680nH	10μH									5.4A	17A	
	FCUL1040	p384	4239 (106100)					180nH	420nH									34A	53A	
	FCUL1060	p386	4239 (106100)					360nH	560nH									34A	41A	
FDUE1040D	p371	4239 (106100)					220nH	1μH									18A	32A		
FDVE1040	p368	4239 (106100)					1.5μH	10μH									6.1A	14.6A		
FDA1055	p375	4242 (108108)					560nH	5.6μH									8A	27.7A		
FDUE1245	p372	4848 (123121)					500nH	2.2μH									17A	30A		
FDA1254	p377	5049 (126125)					680nH	8μH									9.1A	29.1A		
FDUE1260	p373	5050 (127127)					450nH										42A			
Inductors for General Circuits	LQB15NN_10	p165	0402 (1005)					220nH	560nH								300mA	380mA		
	LQB18NN_10	p167	0603 (1608)					220nH	560nH								300mA	450mA		
	LQM18NN_00	p183	0603 (1608)					47nH	2.2μH								15mA	50mA		
	LQM21NN_10	p185	0805 (2012)					100nH	4.7μH								30mA	250mA		
	LLB2520	p422	1008 (2520)					1μH	47μH								100mA	480mA		
	LLM2520	p423	1008 (2520)					100nH	220μH								44mA	570mA		
	LQH31HN_03	p169	1206 (3216)					54nH	880nH								180mA	920mA		
	LQH31MN_03	p171	1206 (3216)					150nH	100μH								45mA	250mA		
	LLM3225	p425	1210 (3225)					100nH	1mH								19mA	600mA		
	LQH32MN_23	p173	1210 (3225)					1μH	560μH								40mA	445mA		
	LQH44NN_03	p181	1515 (4040)					510nH	470μH								145mA	4.5A		
	LQH43MN_03	p175	1812 (4532)					1μH	1.5mH								40mA	500mA		
	LQH43NN_03	p178	1812 (4532)					1μH	2.4mH								25mA	500mA		
	LQW04CA_00	p187	03019 (0805)					60nH	510nH								200mA	620mA		
	LQW15CA_00	p188	0402 (1005)					22nH	2μH								130mA	1.3A		

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## ● Part Numbering

### Inductors for General Use

(Part Number)

LQ	M	18	N	N	47N	M	0	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
B	Multilayer Type (Ferrite Core)
H	Wire Wound Type (Ferrite Core)
M	Multilayer Type (Ferrite Core)
W	Wire Wound Type (Ferrite Core)

#### ② Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
04	0.8x0.4mm	03019
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
43	4.5x3.2mm	1812
44	4.0x4.0mm	1515

#### ④ Applications and Characteristics

Code	Series	Applications and Characteristics
C	LQW	for Choke
N	LQB/LQM	for Resonant Circuit
N	LQH	for Resonant Circuit
M		for Resonant Circuit (Coating Type)

#### ⑤ Category

Code	Category	
A	General	Impedance Device (Near GHz Band)
N	General	Standard Type

#### ⑩ Packaging

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	LQH/LQM21*1
L	Embossed Taping (ø180mm Reel)	LQH/LQM21*1
B	Bulk	LQB/LQM/LQW
J	Paper Taping (ø330mm Reel)	LQB/LQM18/LQM21*2
D	Paper Taping (ø180mm Reel)	LQB/LQM18/LQM21*2/LQW

\*1 LQM21N(2.7 - 4.7μH) only.

\*2 LQM21N(0.1 - 2.2μH) only.

#### ⑥ Inductance

Expressed by three-digit alphanumeric. 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
J	±5%
K	±10%
M	±20%
N	±30%

#### ⑧ Features

Code	Features	Series
0	Standard Type	LQM*1 /LQH*2/LQW
1	Standard Type	LQB/LQM21N
2	Standard Type	LQH32M

\*1 Except for LQM21N Series

\*2 Except for LQH32 Series

#### ⑨ Electrode

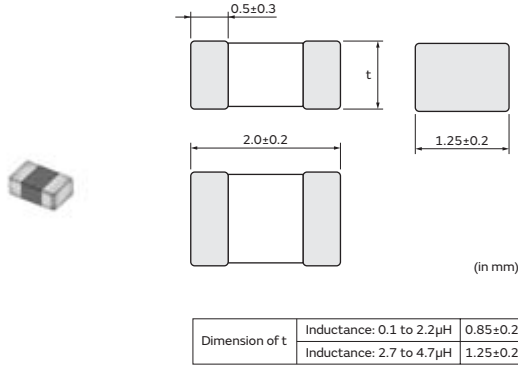
•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQB/LQM/LQW
3	LF Solder	LQH

## Inductors for General Circuits

# LQM21NN\_10 Series 0805 (2012) inch (mm)

### Appearance/Dimensions



### Packaging (Inductance: 0.10μH to 2.2μH)

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
B	Packing in Bulk	1000

### Packaging (Inductance: 2.7μH to 4.7μH)

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	10000
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	1000

### Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQM21NNR10K10□	0.10μH ±10%	25MHz	20	25MHz	250mA	0.26Ω	340MHz
LQM21NNR12K10□	0.12μH ±10%	25MHz	20	25MHz	250mA	0.29Ω	310MHz
LQM21NNR15K10□	0.15μH ±10%	25MHz	20	25MHz	250mA	0.32Ω	270MHz
LQM21NNR18K10□	0.18μH ±10%	25MHz	20	25MHz	250mA	0.35Ω	250MHz
LQM21NNR22K10□	0.22μH ±10%	25MHz	20	25MHz	250mA	0.38Ω	220MHz
LQM21NNR27K10□	0.27μH ±10%	25MHz	20	25MHz	250mA	0.42Ω	200MHz
LQM21NNR33K10□	0.33μH ±10%	25MHz	20	25MHz	250mA	0.48Ω	180MHz
LQM21NNR39K10□	0.39μH ±10%	25MHz	25	25MHz	200mA	0.53Ω	165MHz
LQM21NNR47K10□	0.47μH ±10%	25MHz	25	25MHz	200mA	0.57Ω	150MHz
LQM21NNR56K10□	0.56μH ±10%	25MHz	25	25MHz	150mA	0.63Ω	140MHz
LQM21NNR68K10□	0.68μH ±10%	25MHz	25	25MHz	150mA	0.72Ω	125MHz
LQM21NNR82K10□	0.82μH ±10%	25MHz	25	25MHz	150mA	0.81Ω	115MHz
LQM21NN1R0K10□	1.0μH ±10%	10MHz	45	10MHz	50mA	0.40Ω	107MHz
LQM21NN1R2K10□	1.2μH ±10%	10MHz	45	10MHz	50mA	0.47Ω	97MHz
LQM21NN1R5K10□	1.5μH ±10%	10MHz	45	10MHz	50mA	0.50Ω	87MHz
LQM21NN1R8K10□	1.8μH ±10%	10MHz	45	10MHz	50mA	0.57Ω	80MHz
LQM21NN2R2K10□	2.2μH ±10%	10MHz	45	10MHz	30mA	0.63Ω	71MHz
LQM21NN2R7K10□	2.7μH ±10%	10MHz	45	10MHz	30mA	0.69Ω	66MHz
LQM21NN3R3K10□	3.3μH ±10%	10MHz	45	10MHz	30mA	0.80Ω	59MHz
LQM21NN3R9K10□	3.9μH ±10%	10MHz	45	10MHz	30mA	0.89Ω	53MHz
LQM21NN4R7K10□	4.7μH ±10%	10MHz	45	10MHz	30mA	1.00Ω	47MHz

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

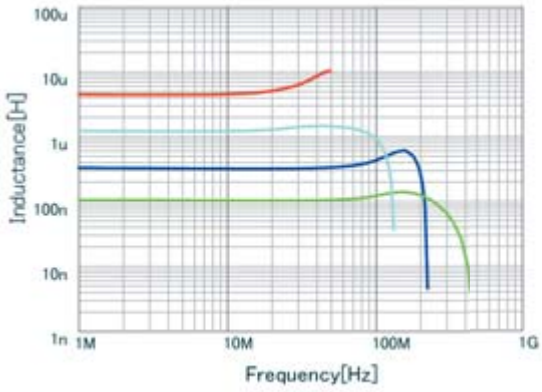
Class of Magnetic Shield: Ferrite Core

\*S.R.F.: Self-Resonant Frequency

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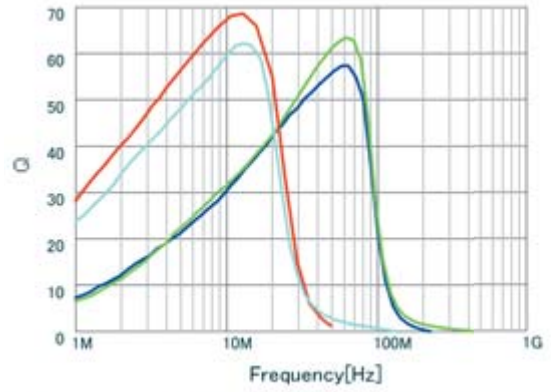
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### Inductance-Frequency Characteristics (Typ.)



<span style="color: blue;">■</span>	LQM21NNR33K10 L
<span style="color: green;">■</span>	LQM21NNR10K10 L
<span style="color: red;">■</span>	LQM21NN4R7K10 L
<span style="color: cyan;">■</span>	LQM21NN1R2K10 L

### Q-Frequency Characteristics (Typ.)



<span style="color: blue;">■</span>	LQM21NNR33K10 Q
<span style="color: green;">■</span>	LQM21NNR10K10 Q
<span style="color: red;">■</span>	LQM21NN4R7K10 Q
<span style="color: cyan;">■</span>	LQM21NN1R2K10 Q

## Inductors for General Circuits ⚠️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.

##### 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 or burnout caused by excessive temperature rise.  
Please contact us in advance if applying a surge current.

### Notice

#### Storage and Operating Condition

##### <Operating Environment>

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

##### <Storage Requirements>

##### 1. Storage Period

The LQB series and 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 degrees C.

Humidity: 15 to 85% (relative humidity)

Do not subject products to rapid changes in temperature and humidity.

Do not store them in a 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\_M/N series

- To prevent breaking the wire, avoid touching with sharp materials, 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.

##### LQW\_C series

- To prevent breaking the wire, avoid touching with sharp materials, such as tweezers or other materials such as 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 recognition. (There is no problem with the permeation and reflection type.)
- The product temperature rises about 40°C maximum when the permissible current is applied to LQW15C. Please use caution regarding the temperature of the substrate and air around the part.

##### LQB series and LQM 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 excessive current over the 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 product.

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## Inductors for General Circuits ⚠Caution/Notice

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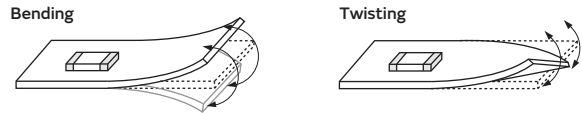
### <Resin Coating>

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/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.

### <Handling of a Substrate>

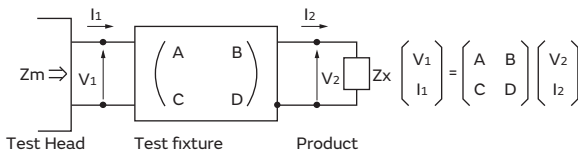
After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate. Excessive mechanical stress may cause cracking in the Product.



## 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)  $Z_x$  and measured value  $Z_m$  can be described by input/output current/voltage.

$$Z_m = \frac{V_1}{I_1}, \quad Z_x = \frac{V_2}{I_2}$$

3. Thus, the relation between  $Z_x$  and  $Z_m$  is shown in the following:

$$Z_x = \alpha \frac{Z_m - \beta}{1 - Z_m \Gamma}$$

$$\text{where, } \alpha = D / A = 1$$

$$\beta = B / D = Z_{sm} - (1 - Y_{om} Z_{sm}) Z_{ss}$$

$$\Gamma = C / A = Y_{om}$$

$Z_{sm}$ : measured impedance of short chip  
 $Z_{ss}$ : residual impedance of short chip\*  
 $Y_{om}$ : measured admittance when opening the fixture)

\*Residual impedance of short chip

Residual Impedance	Series
0.556nH	LQW04CA/15CA

4.  $L_x$  and  $Q_x$  should be calculated with the following equation.

$$L_x = \frac{\text{Im}(Z_x)}{2\pi f}, \quad Q_x = \frac{\text{Im}(Z_x)}{\text{Re}(Z_x)}$$

$L_x$ : Inductance of chip Inductors (chip coils)  
 $Q_x$ : Q of chip Inductors (chip coils)  
 $f$ : Measuring frequency

# 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 Inductor's (chip coil's) electrode.

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

Series	Standard Land Dimensions					
LQB15N LQB18N LQM18N LQM21N LQH31M LQH44N LQW04CA_00 LQW15CA_00		Part Number		a	b	c
		LQB15NN	Reflow	0.4	1.2 to 1.4	0.5
		LQB18N	Flow	0.7	2.2 to 2.6	0.7
			Reflow			
		LQM21N		1.2	3.0 to 4.0	1.0
		LQH31M		1.0	4.5	1.5
		LQH44N		1.3	4.4	3.0
		LQW04CA_00		0.45	1.05	0.48
		LQW15CA_00		0.45	1.45	0.64
		LQH32M				
LQH43M						
LQH43N						

Attention should be paid to potential magnetic coupling effects when using the Inductor (coil) 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.

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.

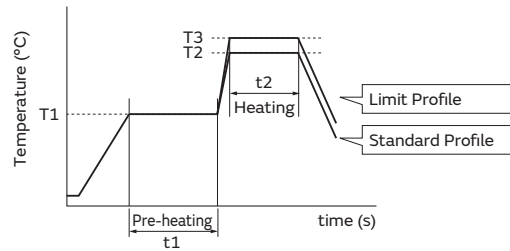
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## Inductors for General Circuits Soldering and Mounting

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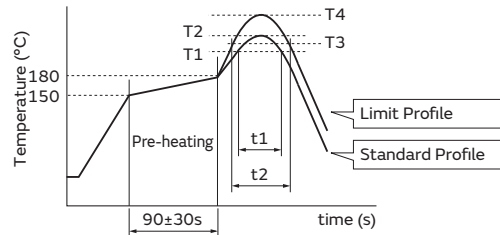
### (2) Soldering profile

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



Series	Pre-heating		Standard Profile			Limit Profile		
	Temp. (T1)	Time. (t1)	Heating		Cycle of flow	Heating		Cycle of flow
			Temp. (T2)	Time. (t2)		Temp. (T3)	Time. (t1)	
LQB18N LQM18N LQM21N LQH31M	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	2 times max.
LQH32M	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)



Series	Standard Profile				Limit Profile			
	Heating		Peak temperature (T2)	Cycle of reflow	Heating		Peak temperature (T4)	Cycle of reflow
	Temp. (T1)	Time. (t1)			Temp. (T3)	Time. (t2)		
LQB15N LQB18N LQM18N LQM21N LQH31M LQH43N LQH44N LQW04CA LQW15CA	220°C	30 to 60s	245±3°C	2 times max.	230°C	60s max.	260°C/10s	2 times max.
LQH32M LQH43M	220°C	30 to 60s	245±3°C	2 times max.	230°C	60s max.	260°C/10s	1 time

### (3) Reworking with a Soldering Iron

\*Except for LQW04CA

Preheating at 150°C for 1 minute is required. Do not directly touch the ceramic element with the tip of the soldering iron. The reworking soldering conditions are as follows:

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.

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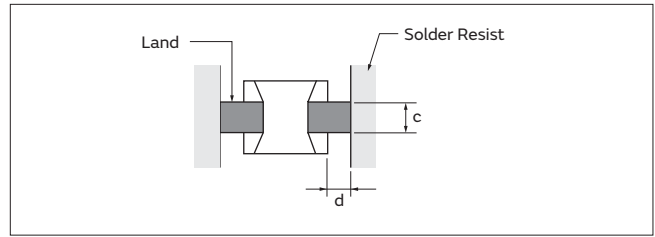
## Inductors for General Circuits Soldering and Mounting

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### 3. Mounting Instructions

#### (1) Land Pattern Dimensions

Large lands reduce the Q of the mounted chip. Also, large protruding land areas (bordered by lines having the dimensions "c" and "d" shown) cause floating and electrode leaching.

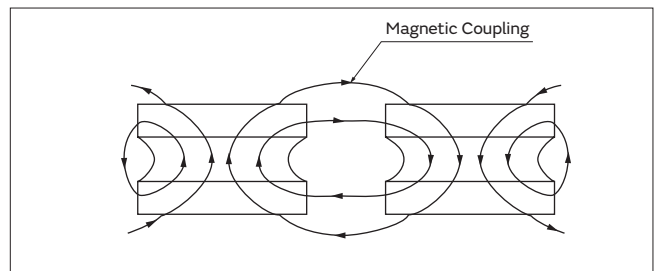


#### (2) Land Pattern Designing (LQH series)

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.

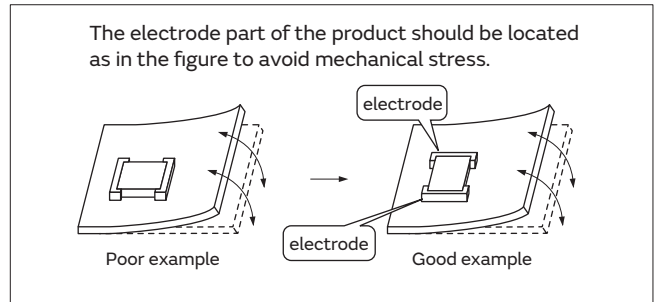
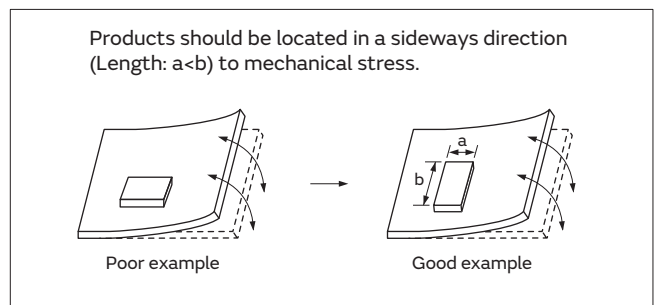
#### (3) Magnetic Coupling

Since some chip inductors (chip coils) are constructed like an open magnetic circuit, narrow spacing between inductors (coils) may cause magnetic coupling. LQB/LQM series have a magnetically shielded structure. The structure makes their coupling coefficient smaller than that of conventional chip inductors (chip coils).



#### (4) PCB Warping

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

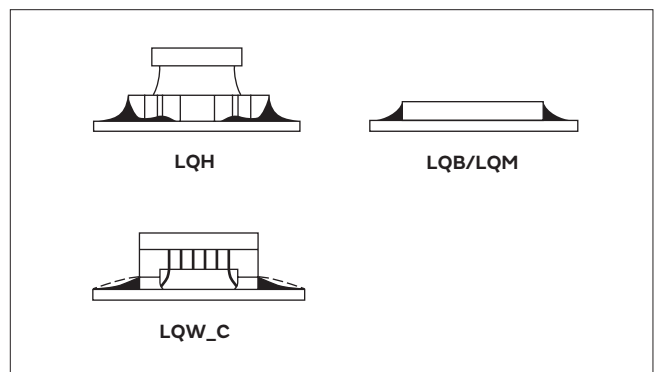


#### (5) Amount of Solder Paste

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 the correct amount is applied.

Guideline of solder paste thickness

- LQM: 100 to 150 $\mu$ m
- LQB: 100 to 200 $\mu$ m
- LQH: 200 to 300 $\mu$ m
- LQW04CA: 80 to 100 $\mu$ m
- LQW15CA: 50 to 100 $\mu$ m



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## Inductors for General Circuits Soldering and Mounting

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### 4. Cleaning

The following conditions should be observed when cleaning chip inductors (chip coils):

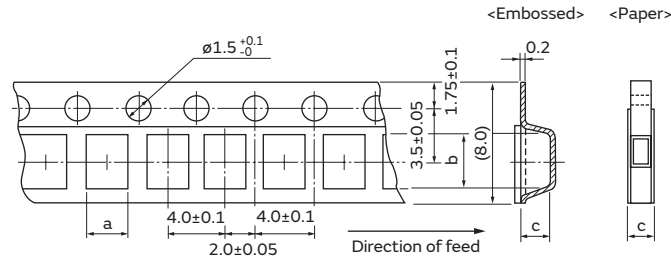
- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic  
Output: 20W/l max.  
Duration: 5 minutes max.  
Frequency: 28 to 40kHz  
Care should be taken not to cause resonance of the PCB and mounted products.
- (3) Cleaning agent  
The following cleaning agents have 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



The dimension of the cavity of embossed tape is measured at the bottom side.

#### Paper Tape

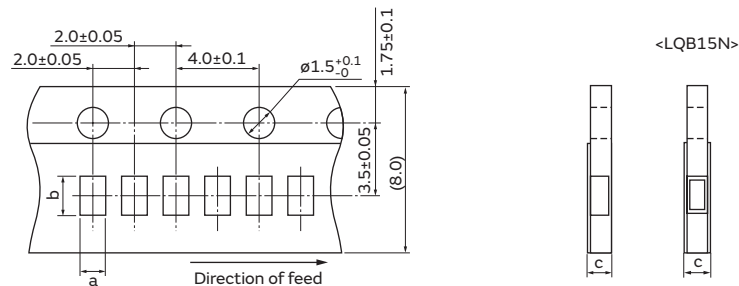
Part Number	Dimensions		Total Thickness of Tape	Packaging Code (Minimum Qty. (pcs.))		
	a	b		c	φ180mm reel	φ330mm reel
LQB18N	1.05	1.85	1.1 max.	D (4000)	—	B (1000)
LQM21N (0.1 to 2.2μH)	1.45	2.25	1.1 max.	D (4000)	J (10000)	B (1000)
LQM18N	1.05	1.85	1.1 max.	D (4000)	J (10000)	B (1000)

#### Embossed Tape

Part Number	Dimensions		Depth of Cavity	Packaging Code (Minimum Qty. (pcs.))		
	a	b		c	φ180mm reel	φ330mm reel
LQM21N (2.7 to 4.7μH)	1.45	2.25	1.3	L (3000)	K (10000)	B (1000)
LQH31M	1.9	3.6	2.0	L (2000)	K (7500)	—
LQH32M	2.9	3.6	2.1	L (2000)	K (7500)	—

(in mm)

### Minimum Quantity and 8mm Width Taping Dimensions



#### Paper Tape

Part Number	Dimensions		Total Thickness of Tape	Packaging Code (Minimum Qty. (pcs.))		
	a	b		c	φ180mm reel	φ330mm reel
LQB15N	0.65	1.15	0.8 max.	D (10000)	—	B (1000)
LQW04CA_00	0.59	1.01	0.71 max.	D (10000)	—	B (500)
LQW15CA_00	0.66	1.22	0.9 max.	D (10000)	—	B (500)

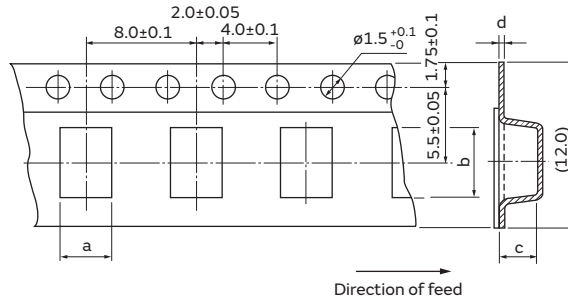
(in mm)

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## Inductors for General Circuits Packaging

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### Minimum Quantity and 12mm Width Embossed Taping Dimensions



The 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.))		
	a	b	c	d	ø180mm reel	ø330mm reel	Bulk
LQH43M	3.6	4.9	2.7	0.3	L (500)	K (2500)	—
LQH43N	3.6	4.9	2.7	0.3	L (500)	K (2500)	—
LQH44N	4.3	4.3	4.7	0.4	L (250)	K (1500)	—

(in mm)