

● Part Numbering

Inductors for Power Lines

(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)
M	Multilayer Type (Ferrite Core)
W	Wire Wound Type (Ferrite Core)

③ Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
15	1.0x0.5mm	0402
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
31	3.2x1.6mm	1206
32	3.2x2.5mm	1210
43	4.5x3.2mm	1812
44	4.0x4.0mm	1515
5B	5.0x5.0mm	2020
55	5.7x5.0mm	2220
66	6.3x6.3mm	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		for Choke (Coating Type)
P	LQM/LQH	for Power Line
C	LQW	
D	LQW	for Power Line (Large Inductance Type)

⑤ Category

Code	Category	
N	Standard Type	
B	Special Feature Classification	
W		
E		
Z	Automotive	Infotainment
H		Powertrain/Safety

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 $0.1\mu\text{H}$, 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	$\pm 10\%$
M	$\pm 20\%$
N	$\pm 30\%$

⑧ Features (Except for LQH□□P/LQM□□P)

Code	Features	Series
0	Standard Type	LQM/LQH/LQW
2	Standard Type	LQH32C/32D
3	Low DC Resistance	LQH32C/43CN
5	Low Profile Type	LQH2MC/32C/32D
7	Large Current Type	LQM18D/21D/21F
8	Low DC Resistance /Large Current Type	LQM21F

⑨ Thickness

(LQH□□P/LQM□□P Only • Except for LQH43P/LQH5BPN_38)

Code	Nominal 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

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Continued from the preceding page. ↘

⑨ 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)

⑨ Specification

(LQH□□P/LQM□□P Only • Except for LQH43P/LQH5BPN_38)

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

⑨⑨ Thickness (LQH43P/LQH5BPN_38 Only)

Code	Dimensions (T)
26	2.6mm
38	4.0mm max.

⑩ Packaging

Code	Packaging
K	Embossed Taping (ø330mm Reel)
F	
L	Embossed Taping (ø180mm Reel)
E	
B	Bulk
J	Paper Taping (ø330mm Reel)
D	Paper Taping (ø180mm Reel)

Product Search > Inductors > LQM21PN1R0MC0#

Multilayer type Inductor for Power Lines

Please be sure to read these general terms of use, before using this product.
Cautions about imitations

LQM21PN1R0MC0#

indicates a package specification code.

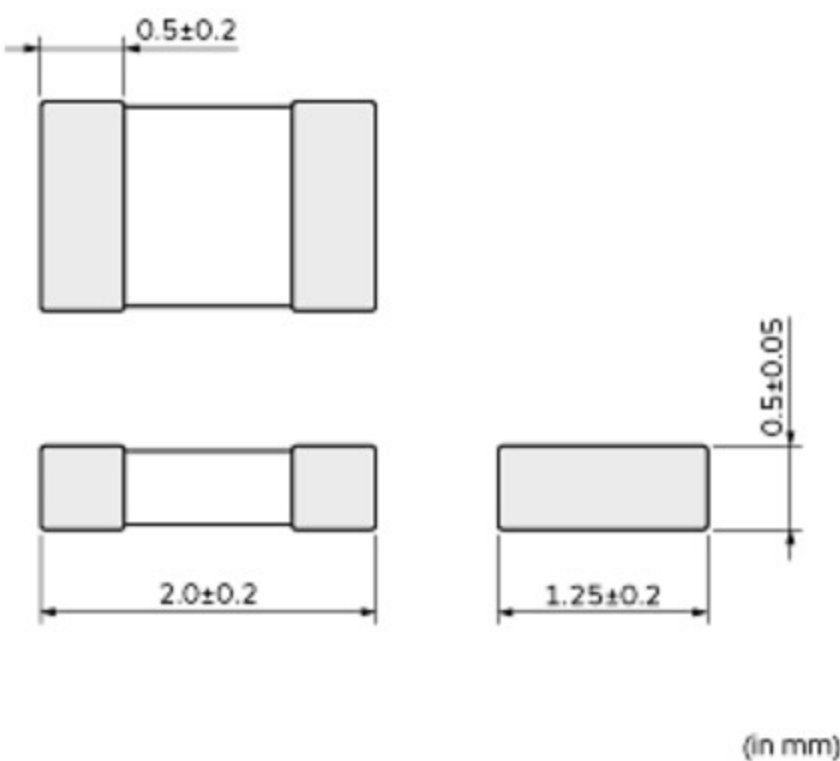
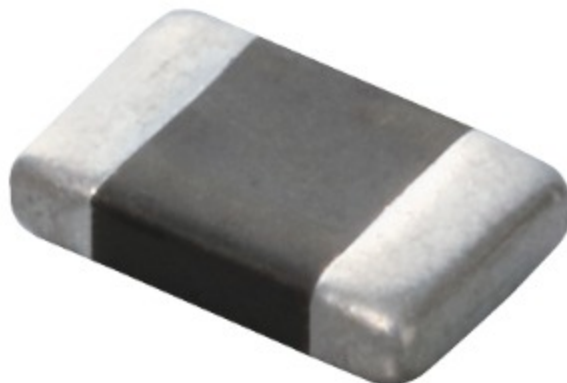
Size Code 2012 (0805) in mm (in inch), 0.55mm max. Thickness

In Production



< List of part numbers with package codes >
LQM21PN1R0MC0B LQM21PN1R0MC0D

Appearance & Shape



Specifications

Search for products with similar specifications

L size	2.0±0.2mm
W size	1.25±0.2mm
T size	0.5±0.05mm
Size code inch (mm)	0805 (2012)
Inductance	1μH±20%
Inductance Test Frequency	1MHz
Rated current (Itemp) (Based on Temperature rise)	0.8A(Ambient temp.85°C)0.60A(Ambient temp.125°C)
Max. of DC resistance	0.238Ω
Class of magnetic shield	Ferrite Core
Self resonance frequency (min.)	90MHz
Brand	Murata
DC Resistance Intermediate Values	0.19Ω±25%
Operating Temperature Range	-55°C to 125°C
Series	LQM21PN_C0

Notices

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.

References

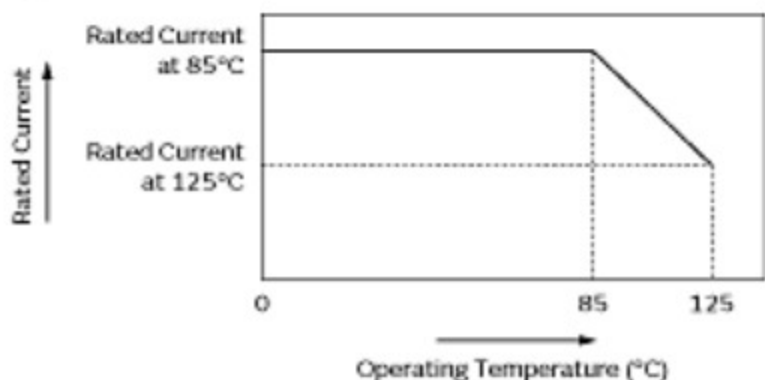
Packaging	Specifications	Standard Packing Quantity
B	Bulk(Bag)	1000
D	180mm Paper Tape	4000

Mass (typ.)	
1 piece	0.007g

Notice For General

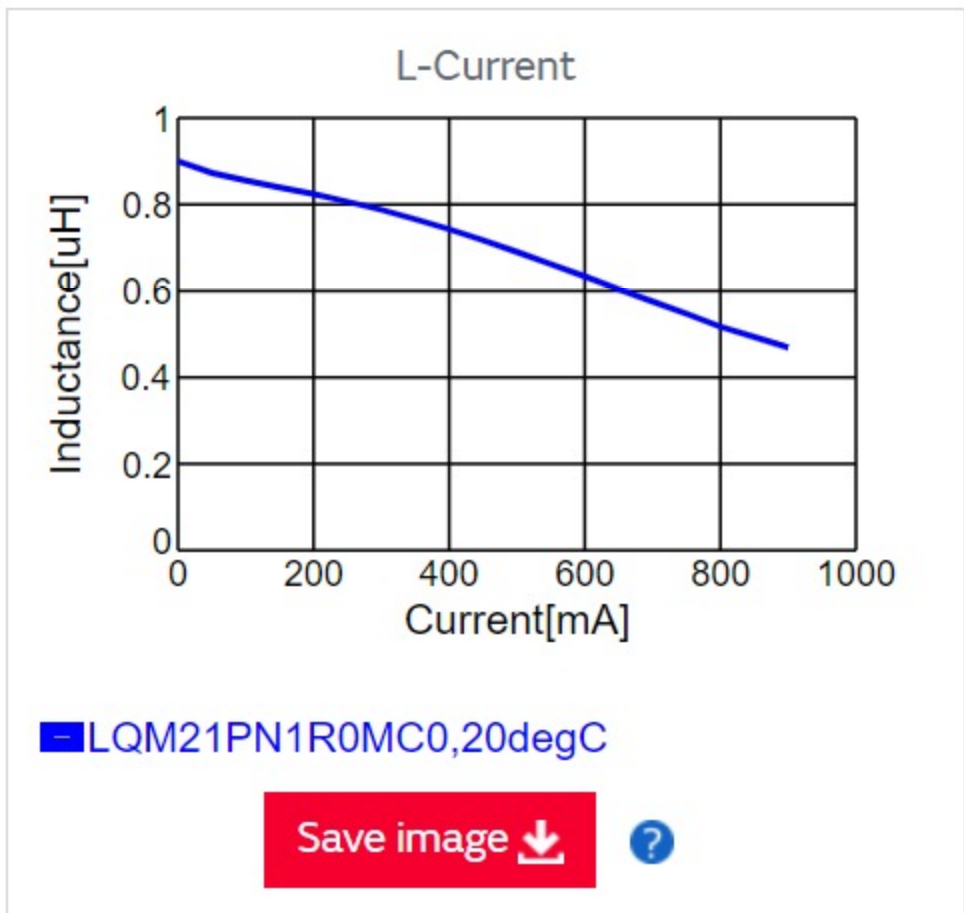
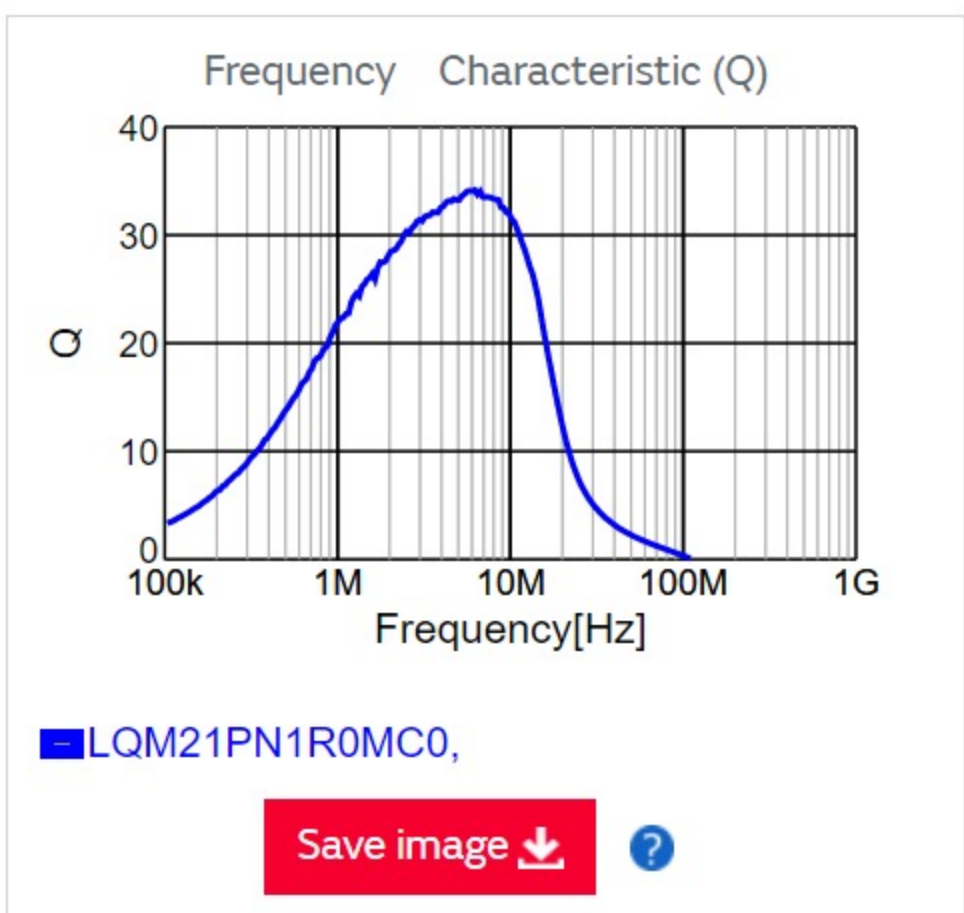
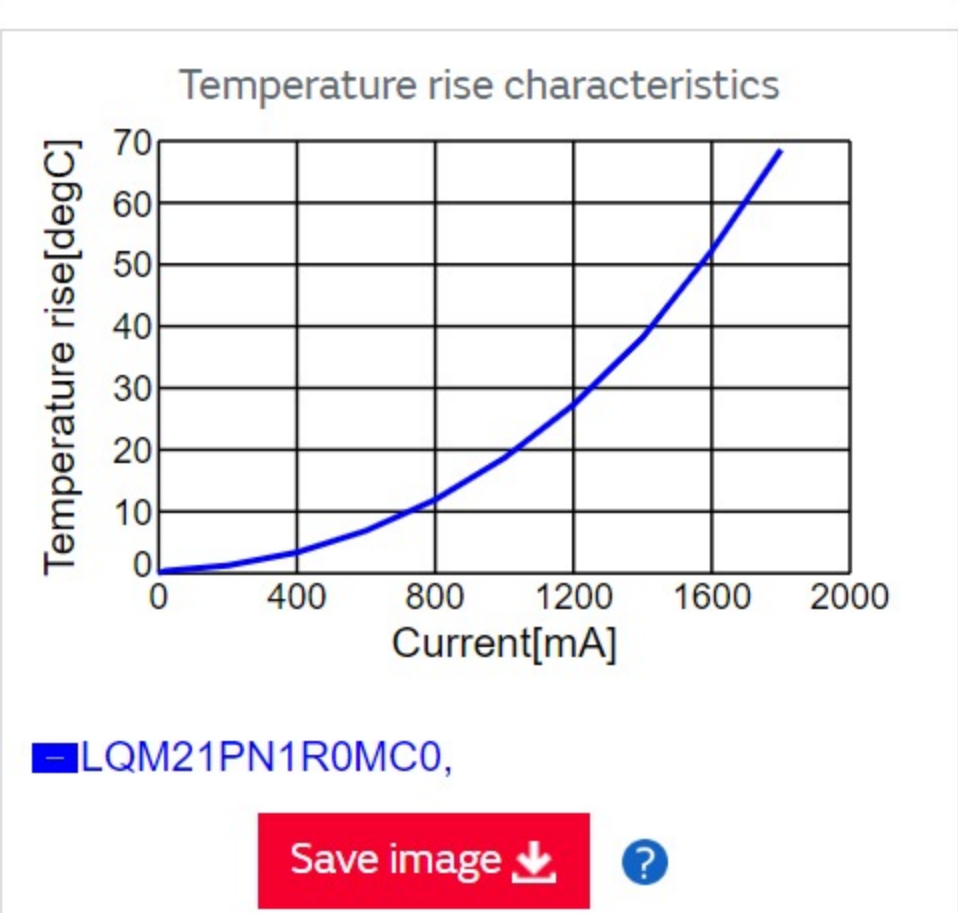
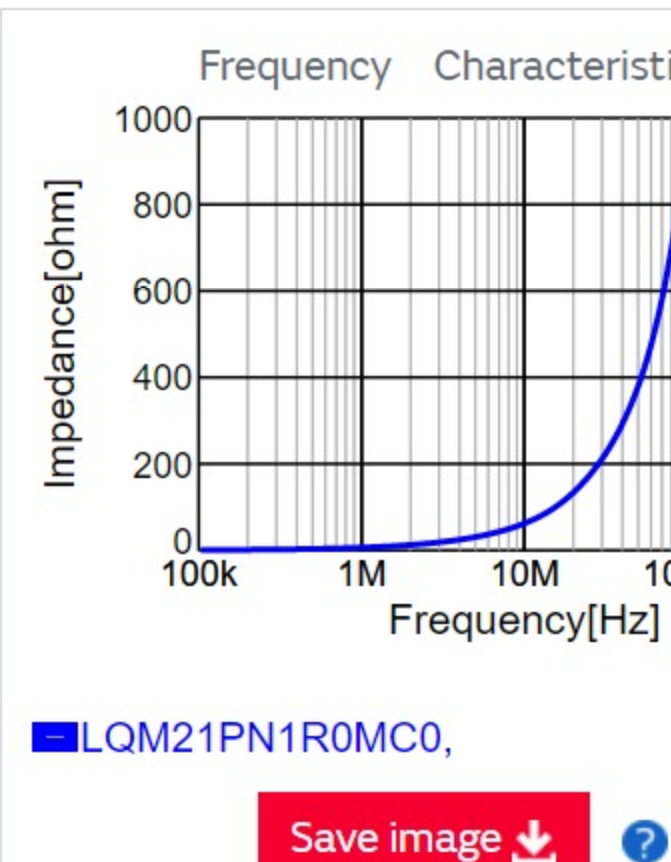
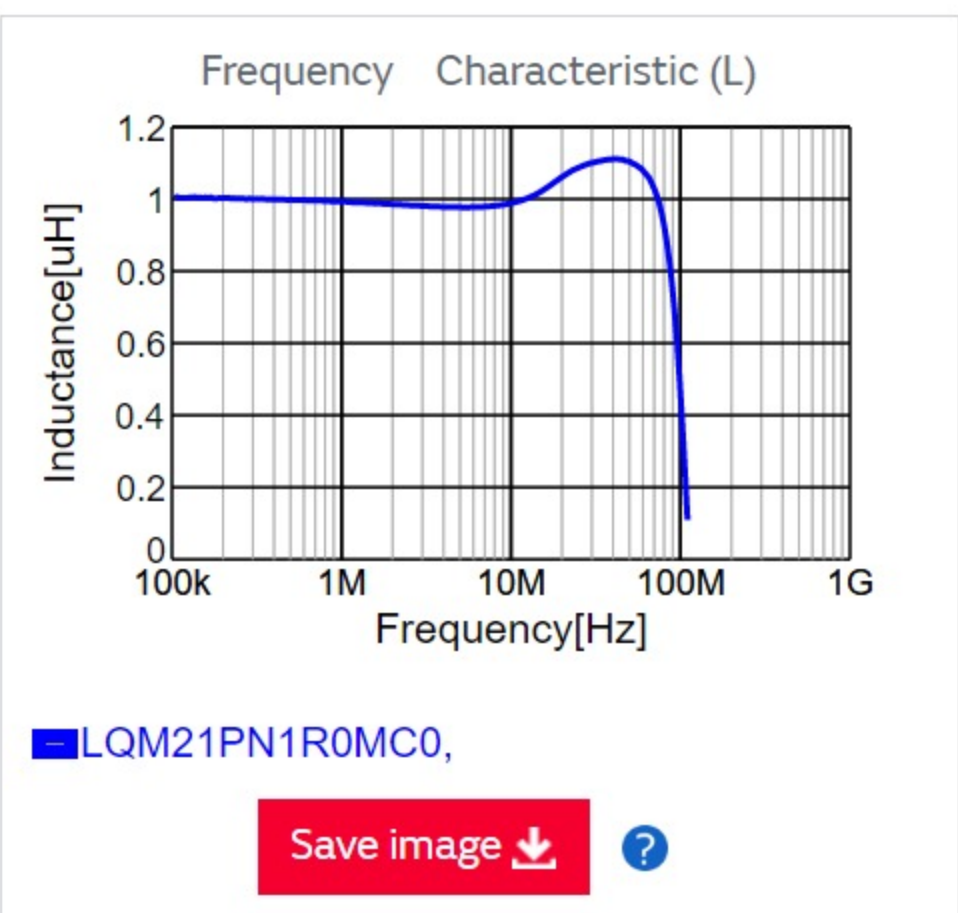
In operating temperatures exceeding +85°C, derating of current is necessary for this series.
Please apply the derating curve shown in the chart according to the operating temperature.

Derating of Rated Current



Characteristic Data

[\(Simsurfing\)Go to the detailed chart](#)



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20pcs free sample request

Stock Check (Where to buy)

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[How to read part numbers](#)

Series Information

Details

Specifications Sheet
(with cautions/mounting/packaging)

Product Data

SPICE Netlist (mod type)

S parameter (S2P type)

SnapEDA

CAD Models

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