

## Part Numbering

### Inductors for Power Lines for Automotive

(Part Number) 

LQ	M	21	P	Z	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)
18	1.6x0.8mm	0603
21	2.0x1.25mm or 2.0x1.2mm	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	LQH	for Choke
C		for Choke (Coating Type)
P	LQM/LQH	for Power Line
F	LQW	for Choke

#### ⑤ Category

Code	Series	Category	
Z	LQH/LQM	Automotive	Infotainment
H			Powertrain/Safety
T	LQW	Standard Type	

#### ⑥ Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry ( $\mu\text{H}$ ). 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  $0.1\mu\text{H}$ , 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	$\pm 30\%$
X	Please refer to the individual spec.

#### ⑧ Features (Except for LQH□□P/LQM□□P)

Code	Features	Series
0	Standard Type	LQW
2	Frequency Band Type	LQW32FT
	Standard Type	LQH32C/32D
3	Low DC Resistance	
5	Low Profile Type	
7	High Current Type	LQM21D
8	Low Resistance/Large Current Type	LQW32FT

#### ⑧ Thickness

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

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

#### ⑨ Electrode (Except for LQH□□P/LQM□□P)

•Lead (Pb) Free

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

#### ⑨ Specification

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

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

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⑨ Thickness (LQH43P Only)

Code	Dimensions (T)
26	2.6mm

⑩ Packaging

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