

● Part Numbering

RF Inductors for Automotive

(Part Number)

LQ	G	15	H	H	1N0	S	0	2	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
G	Multilayer Type (Air-core Inductors (Coils))
H	Wire Wound Type (Ferrite Core)
P	Film Type
W	Wire Wound Type (Air-core Inductors (Coils))

③ Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
02	0.4x0.2mm	01005
03	0.6x0.3mm	0201
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
31	3.2x1.6mm	1206

④ Applications and Characteristics

Code	Series	Applications and Characteristics
H	LQG	Multilayer Air-core Inductors (Coils)
W		High Q Type
T	LQP	Film Type (Low DC Resistance Type)
H		Film Type (High Q Type)
A	LQW	High Q Type (UHF-SHF)
C		for Choke (Coating Type)
H	LQH	for High-frequency Resonant Circuit

⑤ Category

Code	Series	Category	
N	LQP/LQW	Standard Type	
S	LQW		
Q	LQP		
Z	LQG/LQH	Automotive	Infotainment
H	LQG		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
B	$\pm 0.1\text{nH}$
C	$\pm 0.2\text{nH}$
D	$\pm 0.5\text{nH}$
G	$\pm 2\%$
H	$\pm 3\%$
J	$\pm 5\%$
K	$\pm 10\%$
S	$\pm 0.3\text{nH}$

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
H	Automotive Powertrain/ Safety	LQP03T
Z	Automotive Infotainment	LQP

⑨ Electrode

•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQG18H
2		LQG15H/LQG15W/LQP
3	LF Solder	LQH
Z	Automotive Infotainment	LQW15A/15C/18A/18C
H	Automotive Powertrain	LQW18C

⑩ Packaging

Code	Packaging
K	Embossed Taping ($\varnothing 330\text{mm}$ Reel)
L	Embossed Taping ($\varnothing 180\text{mm}$ Reel)
B	Bulk
J	Paper Taping ($\varnothing 330\text{mm}$ Reel)
D	Paper Taping ($\varnothing 180\text{mm}$ Reel)