



**THE DATASHEET OF  
LQW04AN47NJ10D**



## Part Numbering

### RF Inductors

(Part Number)

LQ	G	15	H	N	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))
	Wire Wound Type (Ferrite Core)

#### 2 Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
02	0.4×0.2mm	01005
03	0.6×0.3mm	0201
04	0.8×0.4mm	03015
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805
2B	2.0×1.5mm	0805
2U	2.5×2.0mm	1008
31	3.2×1.6mm	1206

#### 4 Applications and Characteristics

Code	Series	Applications and Characteristics
H	LQG	Multilayer Air-core Inductors (Coils)
	LQP	Film Type (High Q Type)
M	LQP	Film Type
P		Film Type (For Large Current)
T		Film Type (Low DC Resistance Type)
A		High Q Type (UHF-SHF)
H	LQW	High Q Type (VHF-UHF)
H	LQH	for High-frequency Resonant Circuit

#### 5 Category

Code	Category	
G/N	General	Standard Type
S		
Q		High Q Type
W		Specialty Dimensions

#### 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
B	$\pm 0.1\text{nH}$
C	$\pm 0.2\text{nH}$
D	$\pm 0.5\text{nH}$
F	$\pm 1\%$
G	$\pm 2\%$
H	$\pm 3\%$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$
S	$\pm 0.3\text{nH}$
W	$\pm 0.05\text{nH}$

#### 8 Features

Code	Features	Series
0	Standard Type	LQG/LQP/LQW/LQH
1	High-Q or Low DC Resistance	LQW04A/15A/15C/18A/2BH
8	Low DC Resistance/ Large Current Type	LQW15A/18A

#### 9 Electrode

•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQG18H/LQP/LQW□□A/ LQW□□C/LQW21H
2		LQG15H/LQP□□H/LQP□□T/ LQP□□M/LQP□□P
3	LF Solder	LQW□□H/LQH
C	non-magnetic	LQW18AS

#### 10 Packaging

Code	Packaging
K	Embossed Taping ( $\varnothing 330\text{mm}$ Reel)
L/E	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)

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