

# LQH3NPN6R8MMRE Datasheet

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DiGi Electronics Part Number	LQH3NPN6R8MMRE-DG
Manufacturer	<a href="#">Murata Electronics</a>
Manufacturer Product Number	LQH3NPN6R8MMRE
Description	FIXED IND 6.8UH 1.25A 186MOHM SM
Detailed Description	6.8 $\mu$ H Shielded Drum Core, Wirewound Inductor 1.25 A 186mOhm Max 1212 (3030 Metric)



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## Purchase and inquiry

Manufacturer Product Number:

LQH3NPN6R8MMRE

Series:

LQH3

Type:

Drum Core, Wirewound

Inductance:

6.8  $\mu$ H

Current Rating (Amps):

1.25 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 MHz

Package / Case:

1212 (3030 Metric)

Size / Dimension:

0.118" L x 0.118" W (3.00mm x 3.00mm)

Base Product Number:

LQH3NPN

Manufacturer:

Murata Electronics

Product Status:

Obsolete

Material - Core:

Ferrite

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

830mA

DC Resistance (DCR):

186mOhm Max

Frequency - Self Resonant:

40MHz

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Surface Mount

Supplier Device Package:

1212 (3030 Metric)

Height - Seated (Max):

0.059" (1.50mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

## ● 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 ( $\mu\text{H}$ ). 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	$\pm 30\%$

#### 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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## 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)

## ⑩ 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

## ⑪ Thickness (LQH43P/LQH5BPN\_38 Only)

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

## ⑫ 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)

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