

# LQH3NPN680MMEL

“#” at the end indicates the package specification code.

Size Code 3030 (1212) in mm (in inch), 1.5mm max. Thickness. high performance type.

In Production

RoHS

REACH

125  
°C max.

Wound  
(Ferrite)

Low Rdc

Bias

Reflow  
OK

## < List of part numbers with package codes >

LQH3NPN680MMEB      LQH3NPN680MMEK      LQH3NPN680MMEL

## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	<p>Consumer equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector, Industrial equipment except for transportation &amp; facility &amp; energy equipment</p> <p>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.</p>
Recommended Applications	Consumer equipment

## Appearance & Shape



### Attention

- 1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- 2.This datasheet has only typical specifications because there is no space for detailed specifications.  
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## Notices

When rated current is applied to the products, inductance will be within  $\pm 30\%$  of initial inductance value range. When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 40°C max (ambient temperature 85°C max). When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 20°C max (ambient temperature 85°C to 105°C). Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## References

Packaging	Specifications	Standard Packing Quantity
B	Bulk(Bag)	100
K	330Embossed Tape	8000
L	180Embossed Tape	2000

Mass (typ.)	
1 piece	0.051g

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## Specifications

L size	3.0±0.2mm
W size	3.0±0.2mm
T size	1.4±0.1mm
Size code inch (mm)	1212 (3030)
Inductance	68μH±20%
Inductance Test Frequency	1MHz
Rated current (Isat) (Based on Inductance change)	310mA
Rated current (Itemp) (Based on Temperature rise)	470mA(Ambient temp.85°C) 300mA(Ambient temp.105°C)
Max. of DC resistance	1.38Ω
DC resistance	1.15Ω±20%
Operating Temperature Range (Self-temperature rise is included)	-40°C to 125°C
Operating Temperature Range(Self-temperature rise is not included)	-40°C to 105°C
Class of magnetic shield	Shielded (Magnetic Resin)
Self resonance frequency (min.)	5MHz
Brand	Murata
Series	LQH3NPN_ME

### Attention

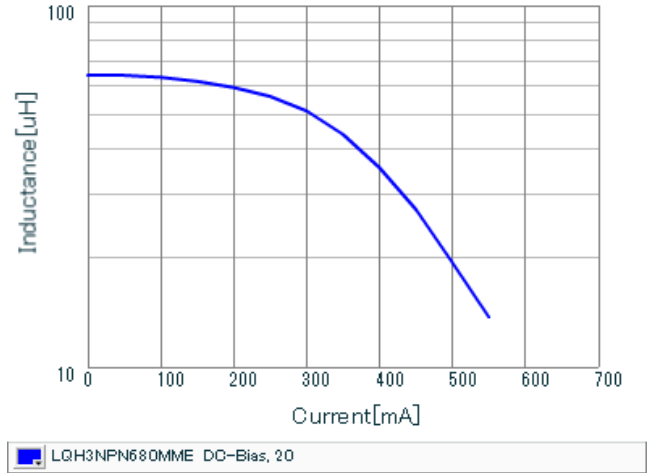
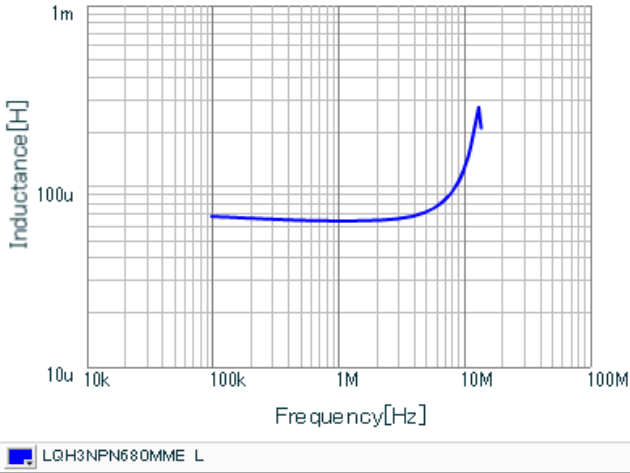
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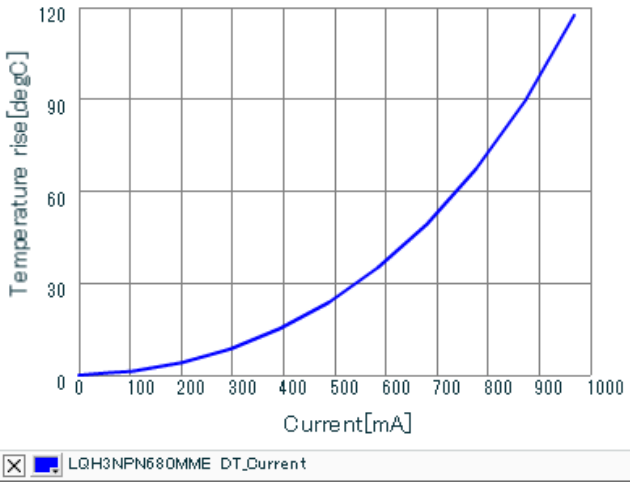


## Characteristic Data



### Inductance - Frequency Characteristics

### Impedance - Current Characteristics



### Temperature Increase Characteristic

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