

Note: This datasheet may be out of date.

Please download the latest datasheet of LQH3NPN220MME# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=LQH3NPN220MME%23

"#"at the end indicates the package specification code.

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

















< List of part numbers with package codes >

LQH3NPN220MMEB

LQH3NPN220MMEK

LQH3NPN220MMEL



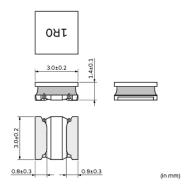
## **Applications**

Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
	Consumer equipment,Medical	
	equipment [GHTF A/B/C] except for	
	implant & surgery & auto injector,	
	Industrial equipment except for	
	transportation & facility & energy	
	equipment	
Specific	Please refer to Our Website and	
Applications	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.	
Recommended	Consumer equipment	
Applications	Consumer equipment	



## Appearance & Shape





1 of 5

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### **Notices**

When rated current is applied to the products, inductance will be within ±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
В	Bulk(Bag)	100
К	330Embossed Tape	8000
L	180Embossed Tape	2000

Mass (typ.)	
1 piece	0.051g

2 of 5

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# **Specifications**

L size 3.0±0.2mm  T size 1.4±0.1mm  Size code inch (mm) 1212 (3030)  Inductance 22μH±20%  Inductance Test Frequency 1MHz  Rated current (Isat) (Based on Inductance change) 860mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)  Max. of DC resistance 0.48Ω  DC resistance 0.4Ω±20%  Operating Temperature Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature rise is not included)  Class of magnetic shield Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand Murata  LQH3NPN_ME		
T size 1.4±0.1mm  Size code inch (mm) 1212 (3030)  Inductance 22μH±20%  Inductance Test Frequency 1MHz  Rated current (Isat) (Based on Inductance change) 860mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)  Max. of DC resistance 0.48Ω  DC resistance 0.4Ω±20%  Operating Temperature Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature rise is not included)  Class of magnetic shield Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand Murata	L size	3.0±0.2mm
Size code inch (mm)       1212 (3030)         Inductance       22μH±20%         Inductance Test Frequency       1MHz         Rated current (Isat) (Based on Inductance change)       570mA         Rated current (Itemp)       860mA(Ambient temp.85°C)         (Based on Temperature rise)       540mA(Ambient temp.105°C)         Max. of DC resistance       0.48Ω         DC resistance       0.4Ω±20%         Operating Temperature       -40°C to 125°C         rise is included)       -40°C to 105°C         Operating Temperature rise is not included)       -40°C to 105°C         Class of magnetic shield       Shielded (Magnetic Resin)         Self resonance frequency (min.)       10MHz         Brand       Murata	W size	3.0±0.2mm
Inductance 22μH±20%  Inductance Test Frequency 1MHz  Rated current (Isat) (Based on Inductance change)  Rated current (Itemp) 860mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)  Max. of DC resistance 0.48Ω  DC resistance 0.4Ω±20%  Operating Temperature Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature rise is not included)  Class of magnetic shield Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand Murata	T size	1.4±0.1mm
Inductance Test Frequency  Rated current (Isat) (Based on Inductance change)  Rated current (Itemp) (Based on Temperature rise)  Max. of DC resistance  DC resistance  Operating Temperature Range (Self-temperature rise is not included)  Class of magnetic shield  Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand  Murata	Size code inch (mm)	1212 (3030)
Rated current (Isat) (Based on Inductance change)  Rated current (Itemp) (Based on Temperature rise)  Max. of DC resistance  DC resistance  Operating Temperature Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature Range(Self-temperature Range(Self-temperature rise is not included)  Class of magnetic shield  Self resonance frequency (min.)  Brand  Self and Self-temperature  570mA  57	Inductance	22µH±20%
on Inductance change)  Rated current (Itemp) (Based on Temperature rise)  Max. of DC resistance  DC resistance  Operating Temperature Range (Self-temperature rise is not included)  Class of magnetic shield  Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand  Murata	Inductance Test Frequency	1MHz
(Based on Temperature rise)       540mA(Ambient temp.105°C)         Max. of DC resistance       0.48Ω         DC resistance       0.4Ω±20%         Operating Temperature       -40°C to 125°C         rise is included)       -40°C to 125°C         Operating Temperature       -40°C to 105°C         Range(Self-temperature rise is not included)       -40°C to 105°C         Class of magnetic shield       Shielded (Magnetic Resin)         Self resonance frequency (min.)       10MHz         Brand       Murata	` ' `	570mA
Max. of DC resistance       0.48Ω         DC resistance       0.4Ω±20%         Operating Temperature       -40°C to 125°C         rise is included)       -40°C to 125°C         Operating Temperature       -40°C to 105°C         Range(Self-temperature rise is not included)       -40°C to 105°C         Class of magnetic shield       Shielded (Magnetic Resin)         Self resonance frequency (min.)       10MHz         Brand       Murata	Rated current (Itemp)	860mA(Ambient temp.85°C)
Max. of DC resistance       0.48Ω         DC resistance       0.4Ω±20%         Operating Temperature       -40°C to 125°C         rise is included)       -40°C to 125°C         Operating Temperature       -40°C to 105°C         Range(Self-temperature rise is not included)       -40°C to 105°C         Class of magnetic shield       Shielded (Magnetic Resin)         Self resonance frequency (min.)       10MHz         Brand       Murata	(Based on Temperature rise)	540mA(Ambient temp.105°C)
Operating Temperature Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature Range(Self-temperature rise is not included)  Class of magnetic shield  Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand  Murata	Max. of DC resistance	0.48Ω
Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature rise is not included)  Class of magnetic shield  Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand  Murata	DC resistance	0.4Ω±20%
Range(Self-temperature rise is not included)  Class of magnetic shield  Shielded (Magnetic Resin)  Self resonance frequency (min.)  Brand  Murata	Range (Self-temperature	-40°C to 125°C
Self resonance frequency (min.)  Brand  Murata	Range(Self-temperature rise	-40°C to 105°C
(min.) 10MHz Brand Murata	Class of magnetic shield	Shielded (Magnetic Resin)
	· · · · ·	10MHz
Series LQH3NPN_ME	Brand	Murata
	Series	LQH3NPN_ME

3 of 5

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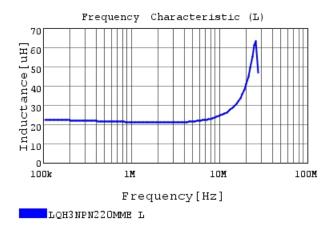
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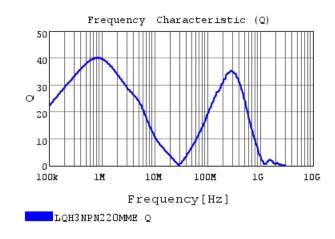
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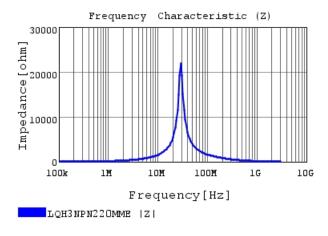


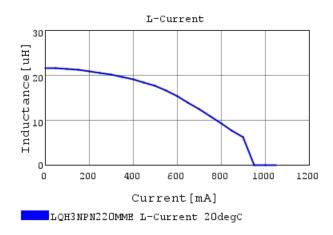
## Characteristic Data

The charts below may show another part number which shares its characteristics.









4 of 5

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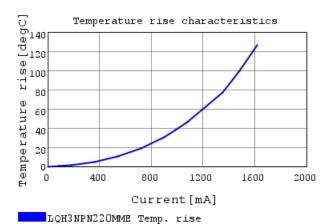


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5 of 5

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