

Note: This datasheet may be out of date.

Please download the latest datasheet of LQH3NPN470MME# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=LQH3NPN470MME%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 >

LQH3NPN470MMEB

LQH3NPN470MMEK

LQH3NPN470MMEL



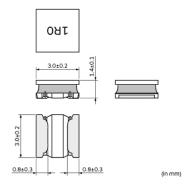
Applications

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	Company of a surface of the surface	
Applications	Consumer equipment	



Appearance & Shape





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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
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 T size 1.4±0.1mm Size code inch (mm) 1212 (3030) Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) 830mA Rated current (Itemp) 610mA(Ambient temp.85°C) 380mA(Ambient temp.105°C) Max. of DC resistance 0.82Ω±20% DC resistance 0.82Ω±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 Size code inch (mm) 1212 (3030) Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) 610mA(Ambient temp.85°C) 380mA Rated current (Itemp) 610mA(Ambient temp.105°C) Max. of DC resistance 0.984Ω DC resistance 0.82Ω±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) Inductance 47μH±20% 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	W size	3.0±0.2mm
Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) Rated current (Itemp) 610mA(Ambient temp.85°C) 380mA(Ambient temp.105°C) Max. of DC resistance 0.984Ω DC resistance 0.82Ω±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 Range (Self-temperature Range(Self-temperature Range(Self-temperature Range(Self-temperature Range(Self-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 Range(Self-temperature Range(Self-temperature Range(Self-temperature Range(Self-temperature Range(Self-temperature rise is not included) Class of magnetic shield Shielded (Magnetic Resin) Self resonance frequency (min.) Brand Murata	Inductance	47μH±20%
on Inductance change) 380mA Rated current (Itemp) 610mA(Ambient temp.85°C) (Based on Temperature rise) 380mA(Ambient temp.105°C) Max. of DC resistance 0.984Ω DC resistance 0.82Ω±20% Operating Temperature -40°C to 125°C rise is included) -40°C to 105°C Operating Temperature rise is included) -40°C to 105°C Class of magnetic shield Shielded (Magnetic Resin) Self resonance frequency (min.) 5MHz Brand Murata	Inductance Test Frequency	1MHz
(Based on Temperature rise) 380mA(Ambient temp.105°C) Max. of DC resistance 0.984Ω DC resistance 0.82Ω±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.) 5MHz Brand Murata	` ' `	380mA
(Based on Temperature rise) 380mA(Ambient temp.105°C) Max. of DC resistance 0.984Ω DC resistance 0.82Ω±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.) 5MHz Brand Murata	Rated current (Itemp)	610mA(Ambient temp.85°C)
Max. of DC resistance 0.984Ω DC resistance 0.82Ω±20% Operating Temperature -40°C to 125°C rise is included) -40°C to 125°C Operating Temperature -40°C to 105°C is not included) -40°C to 105°C Class of magnetic shield Shielded (Magnetic Resin) Self resonance frequency (min.) 5MHz Brand Murata	(Based on Temperature rise)	380mA(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 Self resonance frequency (min.) Brand A0°C to 125°C -40°C to 105°C Shielded (Magnetic Resin) 5MHz Murata	Max. of DC resistance	0.984Ω
Range (Self-temperature rise is included) Operating Temperature Range(Self-temperature rise is not included) Class of magnetic shield Self resonance frequency (min.) Brand Self Murata	DC resistance	0.82Ω±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.) 5MHz Brand Murata	Class of magnetic shield	Shielded (Magnetic Resin)
	i i	5MHz
	Brand	Murata
Series LQH3NPN_ME	Series	LQH3NPN_ME

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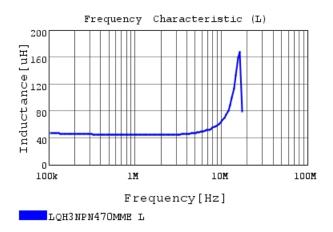
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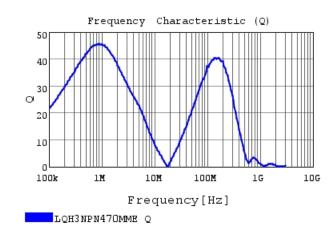
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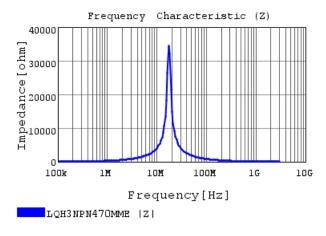


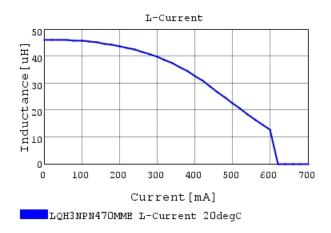
Characteristic Data

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









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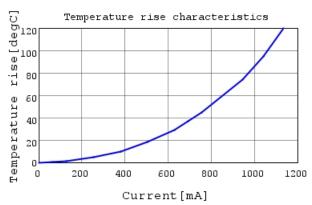


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LQH3NPN470MME Temp. rise

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