

Note: This datasheet may be out of date.

Please download the latest datasheet of LQH3NPN470MGR# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=LQH3NPN470MGR%23

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

Size Code 3030 (1212) in mm (in inch), 1.0mm max. Thickness. Low DC Resistance Type















< List of part numbers with package codes > LQH3NPN470MGRK LQH3NPN470MGRL



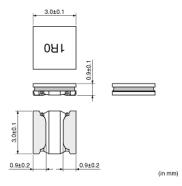
Applications

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	Canadiana	
Applications	Consumer equipment	



Appearance & Shape







Notices

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

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References

Packaging	Specifications	Standard Packing
	•	Quantity
К	330Embossed Tape	11000
L	180Embossed Tape	3000

Mass (typ.)		
	1 piece	0.034g

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Specifications

L size 3.0±0.1mm T size 0.9±0.1mm T size 0.9±0.1mm 1212 (3030) Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) Rated current (Itemp) 460mA(Ambient temp.85°C) 270mA(Ambient temp.105°C) Max. of DC resistance 1.68Ω DC resistance 1.4Ω±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 Series LQH3NPN_GR		
T size 0.9±0.1mm Size code inch (mm) 1212 (3030) Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) 460mA Rated current (Itemp) 460mA(Ambient temp.85°C) 270mA(Ambient temp.105°C) Max. of DC resistance 1.68Ω DC resistance 1.4Ω±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±0.1mm
Size code inch (mm) 1212 (3030) Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) 260mA Rated current (Itemp) 460mA(Ambient temp.85°C) (Based on Temperature rise) 270mA(Ambient temp.105°C) Max. of DC resistance 1.68Ω DC resistance 1.4Ω±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	W size	3.0±0.1mm
Inductance	T size	0.9±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 1.4Ω±20% 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 1.4Ω±20% 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 Shielded (Magnetic Resin) Self resonance frequency (min.) Brand Murata	Inductance	47μH±20%
on Inductance change) 260mA Rated current (Itemp) 460mA(Ambient temp.85°C) (Based on Temperature rise) 270mA(Ambient temp.105°C) Max. of DC resistance 1.68Ω DC resistance 1.4Ω±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.) 5MHz Brand Murata	Inductance Test Frequency	1MHz
(Based on Temperature rise) 270mA(Ambient temp.105°C) Max. of DC resistance 1.68Ω DC resistance 1.4Ω±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.) 5MHz Brand Murata	` ' `	260mA
(Based on Temperature rise) 270mA(Ambient temp.105°C) Max. of DC resistance 1.68Ω DC resistance 1.4Ω±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.) 5MHz Brand Murata	Rated current (Itemp)	460mA(Ambient temp.85°C)
Max. of DC resistance 1.68Ω DC resistance 1.4Ω±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.) 5MHz Brand Murata	(Based on Temperature rise)	270mA(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	1.68Ω
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	1.4Ω±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.) 5MHz Brand Murata	Class of magnetic shield	Shielded (Magnetic Resin)
	i i	5MHz
Series LQH3NPN_GR	Brand	Murata
	Series	LQH3NPN_GR

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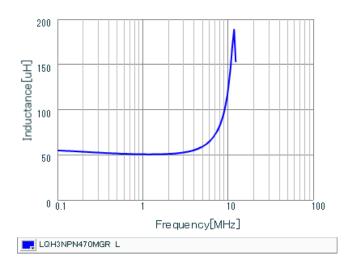
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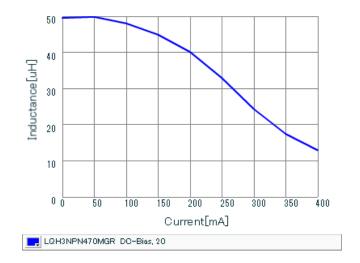
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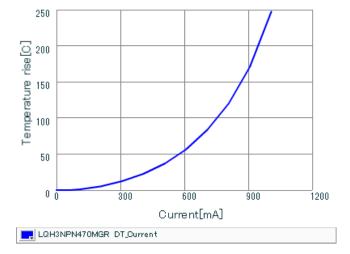


Characteristic Data





Inductance - Frequency Characteristics



Impedance - Current Characteristics

Temperature Increase Characteristic

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