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Please download the latest datasheet of LQH2MPN100MGR# from the official website of Murata

http://www.murata.com/en-us/products/productdetail?partno=LQH2MPN100MGR%23

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

0806(inch) / 2016(mm) size, 0.95 mm max height, low DC resistance inductor.













< List of part numbers with package codes > LQH2MPN100MGRL



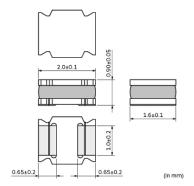
## **Applications**

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	Canaumar aguinment	
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, the self-temperature rise shall be limited to 40°C max. (ambient temperature 85°C). When rated current is applied to the products, the self-temperature rise shall be limited to 20°C max. (ambient temperature 85 °C to 105°C).

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## References

Packaging	Specifications	Standard Packing Quantity
L	180Embossed Tape	3000

Mass (typ.)	
1 piece	0.01g

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# **Specifications**

L size 2.0±0.1mm  T size 0.9±0.05mm  Size code inch (mm) 0806 (2016)  Inductance 10µH±20%  Inductance Test Frequency 1MHz  Rated current (Isat) (Based on Inductance change) Rated current (Itemp) 480mA(Ambient temp.85°C) 280mA(Ambient temp.105°C)  Max. of DC resistance 1.056Ω  DC resistance 0.88Ω±20%  Operating Temperature Range (Self-temperature Range (Self-temperature rise is included)  Operating Temperature Range (Self-temperature rise is not included)  Class of magnetic shield Shielded (Ferrite Core)  Self resonance frequency (min.)  Brand Murata  Series LQH2MPN_GR		
T size 0.9±0.05mm  Size code inch (mm) 0806 (2016)  Inductance 10μH±20%  Inductance Test Frequency 1MHz  Rated current (Isat) (Based on Inductance change) 480mA(Ambient temp.85°C) 280mA(Ambient temp.105°C)  Max. of DC resistance 1.056Ω  DC resistance 0.88Ω±20%  Operating Temperature Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature rise is not included)  Class of magnetic shield Shielded (Ferrite Core)  Self resonance frequency (min.)  Brand Murata	L size	2.0±0.1mm
Size code inch (mm)       0806 (2016)         Inductance       10μH±20%         Inductance Test Frequency       1MHz         Rated current (Isat) (Based on Inductance change)       610mA         Rated current (Itemp)       480mA(Ambient temp.85°C)         (Based on Temperature rise)       280mA(Ambient temp.105°C)         Max. of DC resistance       1.056Ω         DC resistance       0.88Ω±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 (Ferrite Core)         Self resonance frequency (min.)       30MHz         Brand       Murata	W size	1.6±0.1mm
Inductance Test Frequency  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 included)  Operating Temperature  Range(Self-temperature  Range(Self-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 (Ferrite Core)  Self resonance frequency  (min.)  Brand  Murata	T size	0.9±0.05mm
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 (Ferrite Core)  Self resonance frequency (min.)  Brand  Murata	Size code inch (mm)	0806 (2016)
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  Shielded (Ferrite Core)  Self resonance frequency (min.)  Brand  610mA  610m  610mA  610ma	Inductance	10μH±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 (Ferrite Core)  Self resonance frequency (min.)  Brand  Murata	Inductance Test Frequency	1MHz
(Based on Temperature rise)       280mA(Ambient temp.105°C)         Max. of DC resistance       1.056Ω         DC resistance       0.88Ω±20%         Operating Temperature       -40°C to 125°C         rise is included)       -40°C to 105°C         Operating Temperature       -40°C to 105°C         Range(Self-temperature rise is not included)       -40°C to 105°C         Self resonance frequency (min.)       30MHz         Brand       Murata	` ' '	610mA
Max. of DC resistance       1.056Ω         DC resistance       0.88Ω±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 (Ferrite Core)         Self resonance frequency (min.)       30MHz         Brand       Murata	Rated current (Itemp)	480mA(Ambient temp.85°C)
DC resistance  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 (Ferrite Core)  Self resonance frequency (min.)  Brand  Murata	(Based on Temperature rise)	280mA(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 (Ferrite Core) Self resonance frequency (min.) Brand Murata	Max. of DC resistance	1.056Ω
Range (Self-temperature rise is included)  Operating Temperature Range(Self-temperature rise is not included)  Class of magnetic shield  Shielded (Ferrite Core)  Self resonance frequency (min.)  Brand  Murata	DC resistance	0.88Ω±20%
Range(Self-temperature rise is not included)  Class of magnetic shield  Shielded (Ferrite Core)  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.)  Brand  Murata	Class of magnetic shield	Shielded (Ferrite Core)
		30MHz
Series LQH2MPN_GR	Brand	Murata
	Series	LQH2MPN_GR

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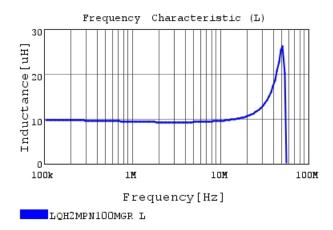
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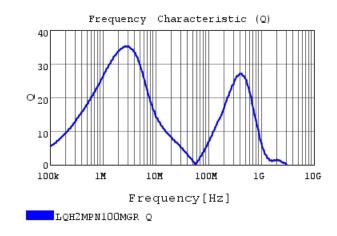


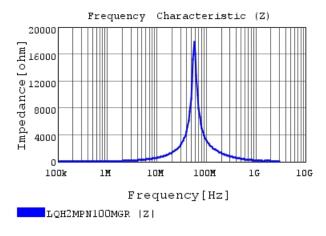
## Characteristic Data

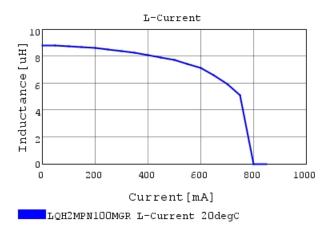
LQH2MPN100MGR#

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









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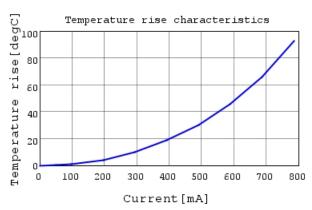


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LQH2MPN100MGR Temp. rise

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