

Note: This datasheet may be out of date.

Please download the latest datasheet of LQH43PH470M26# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=LQH43PH470M26%23

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

Size code 1812(4532)in inch(in mm), 125°C Operation Available















< List of part numbers with package codes > LQH43PH470M26K LQH43PH470M26L

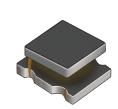


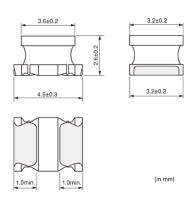
Applications

Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
Specific Applications	Consumer equipment, Automotive	
	infotainment/comfort equipment,	
	Automotive powertrain/safety equipment,	
	Medical equipment [GHTF A/B/C]	
	except for implant & surgery & auto	
	injector,Industrial Equipment	
	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.	
Recommended	Automotive powertrain/safety equipment	
Applications		



Appearance & Shape





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Notices

When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. 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
К	330Embossed Tape	2500
L	180Embossed Tape	500

Mass (typ.)	
1 piece	0.13g

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Specifications

L size 4.5±0.3mm W size 3.2±0.2mm T size 2.6±0.2mm Size code inch (mm) 1812 (4532) Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) Rated current (Itemp) 520mA(Ambient temp.85°C) 280mA(Ambient temp.105°C) Max. of DC resistance 0.8616Ω DC resistance 0.718Ω±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 2.6±0.2mm Size code inch (mm) 1812 (4532) Inductance 47μH±20% Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) Rated current (Itemp) (Based on Temperature rise) Max. of DC resistance DC resistance 0.718Ω±20% Operating Temperature Range (Self-temperature rise is not included) Class of magnetic shield Shielded (Magnetic Resin) Self resonance frequency (min.)	L size	4.5±0.3mm
Size code inch (mm) Inductance 47μH±20% Inductance Test Frequency IMHz Rated current (Isat) (Based on Inductance change) Rated current (Itemp) (Based on Temperature rise) DC resistance DC resistance Operating Temperature Range (Self-temperature rise is included) Operating Temperature Range(Self-temperature rise is not included) Class of magnetic shield Self resonance frequency (min.) IMHz 470mA 470mA 520mA(Ambient temp.85°C) 280mA(Ambient temp.105°C) 0.8616Ω 0.718Ω±20% -40°C to 125°C -40°C to 105°C Shielded (Magnetic Resin) Self resonance frequency (min.)	W size	3.2±0.2mm
Inductance Test Frequency 1MHz Rated current (Isat) (Based on Inductance change) Rated current (Itemp) 520mA(Ambient temp.85°C) 280mA(Ambient temp.105°C) Max. of DC resistance 0.8616Ω DC resistance 0.718Ω±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.)	T size	2.6±0.2mm
Inductance Test Frequency Rated current (Isat) (Based on Inductance change) Rated current (Itemp) (Based on Temperature rise) DC resistance Operating Temperature Range (Self-temperature rise is included) Operating Temperature Range(Self-temperature rise is not included) Class of magnetic shield Self resonance frequency (min.) IMHz 470mA 470mA 520mA(Ambient temp.85°C) 280mA(Ambient temp.105°C) 0.8616Ω 0.718Ω±20% -40°C to 125°C -40°C to 105°C Shielded (Magnetic Resin) 8MHz	Size code inch (mm)	1812 (4532)
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 Range(Self-temperature Range(Self-temperature Range(Self-temperature rise is not included) Class of magnetic shield Shielded (Magnetic Resin) Self resonance frequency (min.)	Inductance	47μH±20%
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.)	Inductance Test Frequency	1MHz
(Based on Temperature rise) 280mA(Ambient temp.105°C) Max. of DC resistance 0.8616Ω DC resistance 0.718Ω±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.) 8MHz	` ' '	470mA
Max. of DC resistance 0.8616Ω DC resistance 0.718Ω±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.) 8MHz	` ' '	
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 Self resonance frequency (min.) Onerating Temperature -40°C to 105°C	(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 Self resonance frequency (min.) Self resonance MHz	Max. of DC resistance	0.8616Ω
Range (Self-temperature rise is included) Operating Temperature Range(Self-temperature rise is not included) Class of magnetic shield Self resonance frequency (min.) Self No. 125°C -40°C to 125°C -40°C to 105°C Shielded (Magnetic Resin) Self Resonance frequency (MID)	DC resistance	0.718Ω±20%
Range(Self-temperature rise is not included) Class of magnetic shield Shielded (Magnetic Resin) Self resonance frequency (min.)	Range (Self-temperature	-40°C to 125°C
Self resonance frequency (min.) 8MHz	Range(Self-temperature rise	-40°C to 105°C
(min.)	Class of magnetic shield	Shielded (Magnetic Resin)
Brand Murata		8MHz
	Brand	Murata
Series LQH43PH_26	Series	LQH43PH_26

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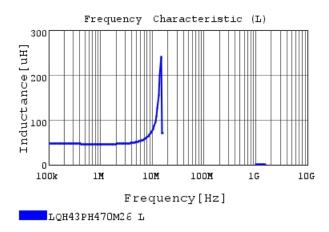
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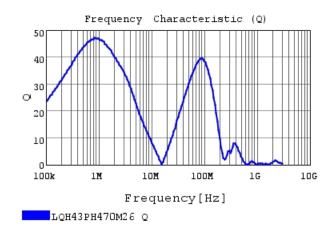
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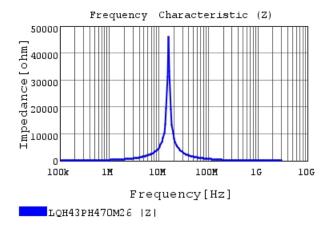


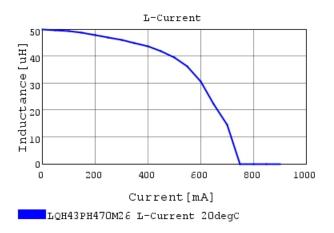
Characteristic Data

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









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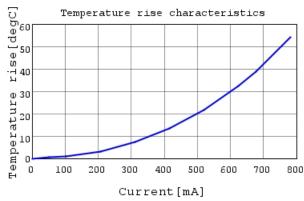


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LQH43PH470M26 Temp. rise

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