

muRata Inductor Data Sheet

LQH2HPZ1R0NJR#

"#" indicates a package specification code.



< List of part numbers with package codes >
LQH2HPZ1R0NJRL

Shape

2.5 ± 0.2 1.1 ± 0.1 2.0 ± 0.2 0.65 ± 0.2 0.65 ± 0.2 A: 2.75 max. B: 2.25 max. (in mm)	
L size	$2.5 \pm 0.2\text{mm}$
W size	$2.0 \pm 0.2\text{mm}$
T size	$1.1 \pm 0.1\text{mm}$
Size code in inch (mm)	1008 (2520)

Notes

When applied Rated current to the Products, Inductance will be within $\pm 30\%$ of initial inductance value range.
Keep the temperature (ambient temperature plus self-generation of heat) under 125°C .
When applied rated current to the Products, temperature rise caused by self-generated heat shall be limited to 40°C max. (Ambient temperature 85°C).
When applied rated current to the Products, temperature rise caused by self-generated heat shall be limited to 20°C max. (Ambient temperature $85\text{--}105^\circ\text{C}$).

References

Packaging code	Specifications	Minimum quantity
L	φ 180mm Embossed taping	2000

Mass (Typ.)	
1 piece	0.023g

Specifications

Inductance	$1.0\mu\text{H} \pm 30\%$
Inductance test frequency	1MHz
Rated current (Isat) (Based on Inductance change)	2600mA
Rated current (Itemp) (Based on Temperature rise)	2400mA(Ambient temp. 85°C) 1440mA(Ambient temp. 105°C)
Max. of DC resistance	0.0576 Ω
Avg. of DC resistance	$0.048\Omega \pm 20\%$
Self resonance frequency (min.)	120MHz
Operating temperature range (Self-temperature rise is included)	$-40 \sim 125^\circ\text{C}$
Operating temperature range (Self-temperature rise is not included)	$-40 \sim 105^\circ\text{C}$
Class of magnetic shield	Magnetic Resin

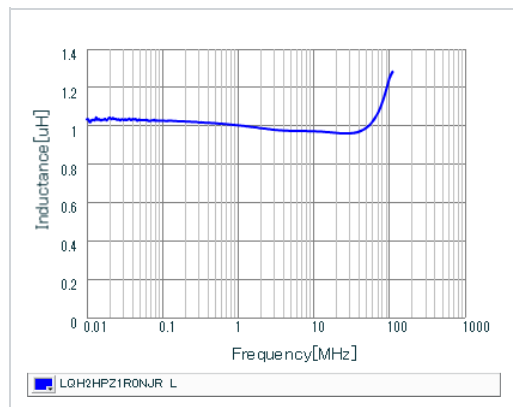
1 of 2

Attention

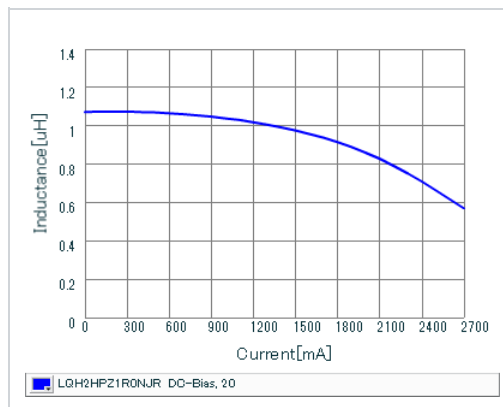
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Chart of characteristic data (The charts below may show another part number which shares its characteristics.)

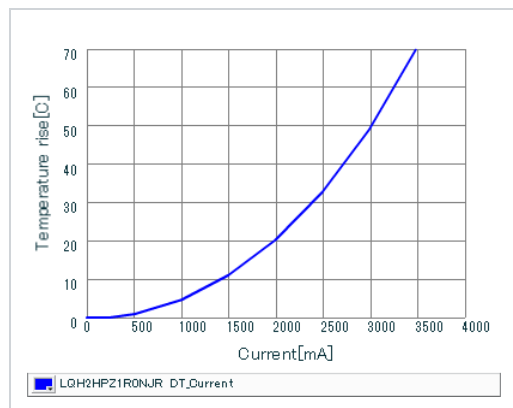
" Inductance-Frequency characteristics (Typ.)



" Inductance-Current characteristics (Typ.)



" Temperature rise characteristics (Typ.)



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