Inductor Data Sheet

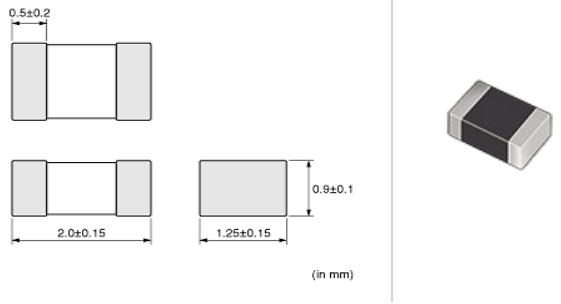
LQM21PH2R2NGC#

"#" indicates a package specification code.

New | In Production | Power-train | AEC-Q200 | 150 °C max. | Multi-layer | Bias | Reflow OK | Flow OK | RoHS | REACH

< List of part numbers with package codes >
LQM21PH2R2NGCD , LQM21PH2R2NGCB

Shape



L size	2.0 ±0.15mm
W size	1.25 ±0.15mm
T size	0.9 ±0.1mm
Size code in inch (mm)	0805 (2012)

Notes

In operating temperatures exceeding +85°C, derating of current is necessary for this series.
Please apply the derating curve shown in the chart according to the operating temperature.
Please consider "Notice (Rating)."
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, the temperature rise caused by self-generated heat shall be limited to 40°C max.

References

Packaging code	Specifications	Minimum quantity
D	φ180mm Paper taping	4000
B	Packing in bulk	1000

Mass (Typ.)	
1 piece	0.012g

Specifications

Inductance	2.2µH ±30%
Inductance test frequency	1MHz
Rated current (Isat) (Based on Inductance change)	540mA(Max.) / 680mA(Typ.)
Rated current (Itemp) (Based on Temperature rise)	800mA(Ambient temp.85°C) 600mA(Ambient temp.125°C) 10mA(Ambient temp.150°C)
Max. of DC resistance	0.29Ω
Avg. of DC resistance	0.23Ω
Self resonance frequency (min.)	40MHz
Operating temperature range	-55°C to 150°C
Class of magnetic shield	Ferrite Core
Series	LQM21PH_GC

In operating temperatures exceeding +125°C, derating of current is necessary for this series.
Please apply the derating curve shown in the chart according to the operating temperature.

Derating of Rated Current

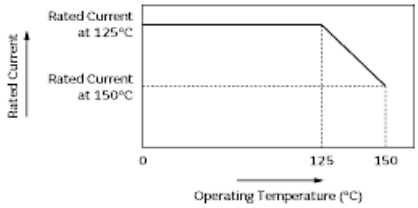


Chart of characteristic data (The charts below may show another part number which shares its characteristics.)