Inductor Data Sheet

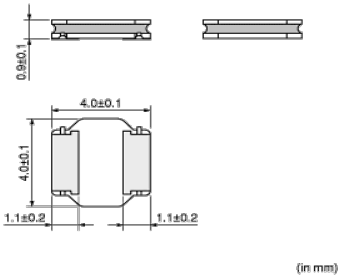
LQH44PZ4R7MGR#

"#" indicates a package specification code.

In Production | Info-tainment | AEC-Q200 | 125 °C max. | Wound (Ferrite) | Low Rdc | Reflow OK | RoHS | REACH

< List of part numbers with package codes >
LQH44PZ4R7MGRL , LQH44PZ4R7MGRK

Shape



L size	4.0 ±0.1mm
W size	4.0 ±0.1mm
T size	0.9 ±0.1mm
Size code in inch (mm)	1515 (4040)

Notes

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 85-105°C).

References

Packaging code	Specifications	Minimum quantity
L	ϕ180mm Embossed taping	1000
K	ϕ330mm Embossed taping	4500

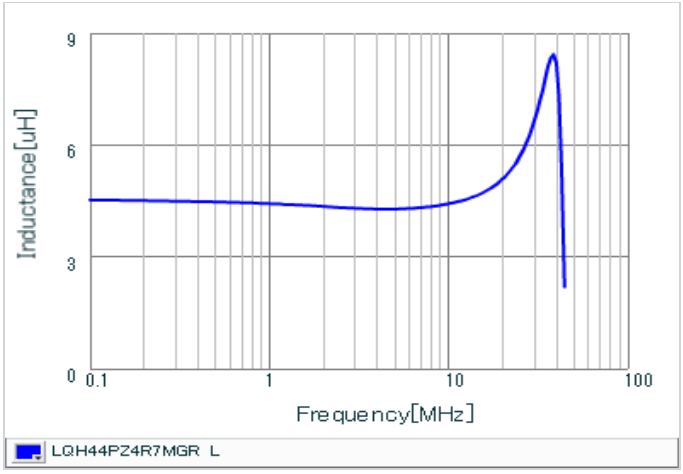
Mass (Typ.)	
1 piece	0.059g

Specifications

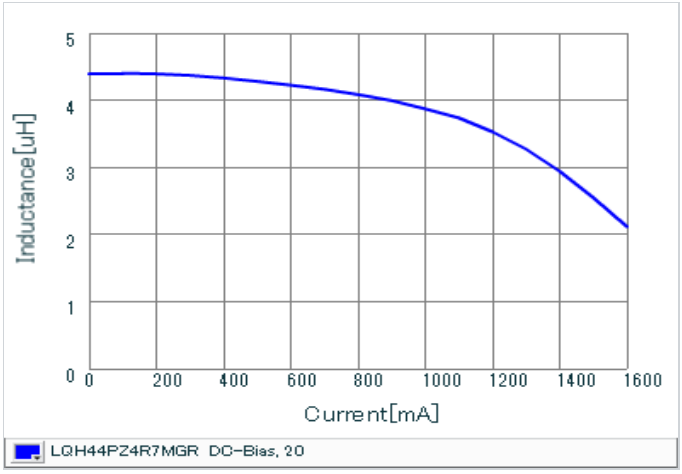
Inductance	4.7µH ±20%
Inductance test frequency	1MHz
Rated current (Isat) (Based on Inductance change)	1.2A
Rated current (Itemp) (Based on Temperature rise)	1.6A(Ambient temp.85℃) 0.96A(Ambient temp.105℃)
Max. of DC resistance	0.156Ω
Avg. of DC resistance	0.13Ω±20%
Self resonance frequency (min.)	17MHz
Operating temperature range (Self-temperature rise is included)	-40～125℃
Operating temperature range (Self-temperature rise is not included)	-40～105℃
Class of magnetic shield	Magnetic Resin
Series	LQH44PZ_GR

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.)