Inductor Data Sheet

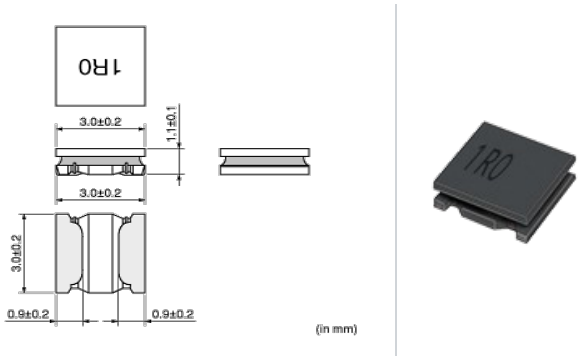
LQH3NPN470MJR#

"#" indicates a package specification code.

In Production | General | 125 °C max. | Wound (Ferrite) | Low Rdc | Reflow OK | RoHS | REACH

< List of part numbers with package codes >
LQH3NPN470MJRL , LQH3NPN470MJRK

Shape



L size	3.0 ±0.2mm
W size	3.0 ±0.2mm
T size	1.1 ±0.1mm
Size code in inch (mm)	1212 (3030)

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°C to 105°C).

References

Packaging code	Specifications	Minimum quantity
L	φ180mm Embossed taping	2000
K	φ330mm Embossed taping	8000

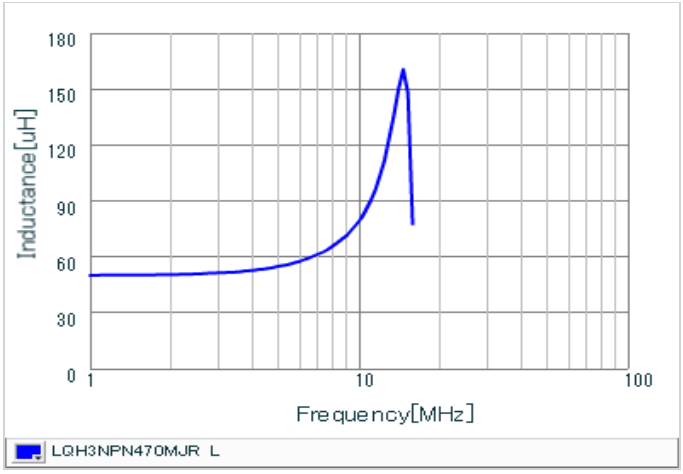
Mass (Typ.)	
1 piece	0.045g

Specifications

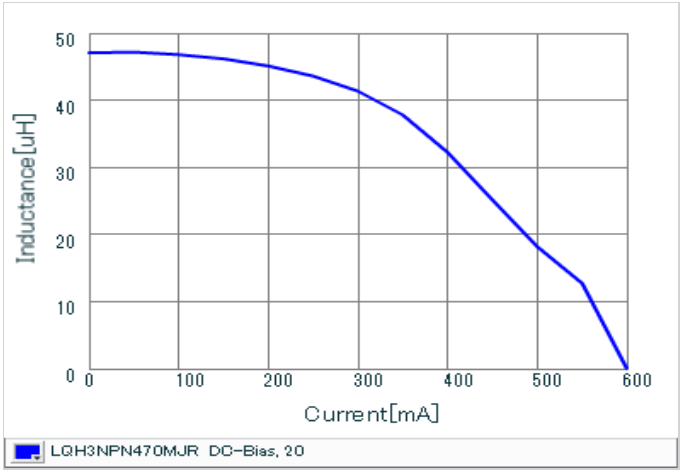
Inductance	47µH ±20%
Inductance test frequency	1MHz
Rated current (Isat) (Based on Inductance change)	360mA
Rated current (Itemp) (Based on Temperature rise)	570mA(Ambient temp.85℃) 240mA(Ambient temp.105℃)
Max. of DC resistance	1.2Ω
Avg. of DC resistance	1.0Ω ±20%
Self resonance frequency (min.)	10MHz
Operating temperature range (Self-temperature rise is included)	-40℃ to 125℃
Operating temperature range (Self-temperature rise is not included)	-40℃ to 105℃
Class of magnetic shield	Magnetic Resin
Series	LQH3NPN_JR

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.)