

# muRata Inductor Data Sheet

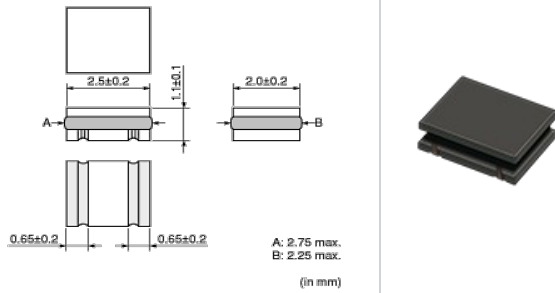
## LQH2HPZR47NJR#

"#" indicates a package specification code.



< List of part numbers with package codes >  
LQH2HPZR47NJRL

### Shape



### 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 85-105°C).

### References

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

Mass (Typ.)	
1 piece	0.023g

### Specifications

Inductance	0.47μH $\pm 30\%$
Inductance test frequency	1MHz
Rated current (Isat) (Based on Inductance change)	3500mA
Rated current (Itemp) (Based on Temperature rise)	2750mA (Ambient temp. 85°C) 1650mA (Ambient temp. 105°C)
Max. of DC resistance	0.037Ω
Avg. of DC resistance	0.031Ω $\pm 20\%$
Self resonance frequency (min.)	190MHz
Operating temperature range (Self-temperature rise is included)	-40~125°C
Operating temperature range (Self-temperature rise is not included)	-40~105°C
Class of magnetic shield	Magnetic Resin

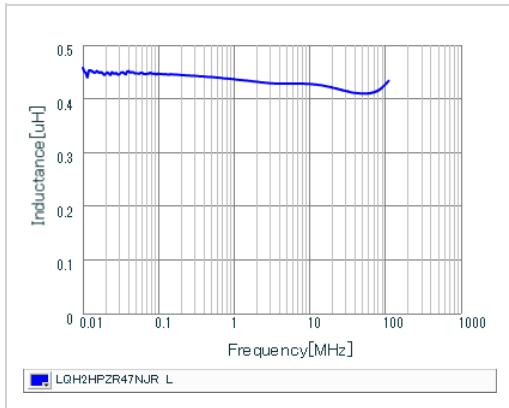
1 of 2

### Attention

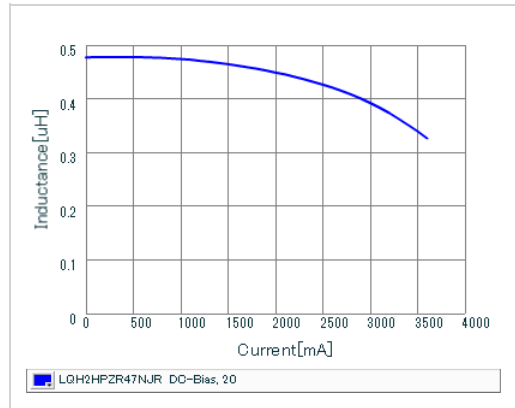
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Chart of characteristic data (The charts below may show another part number which shares its characteristics.)

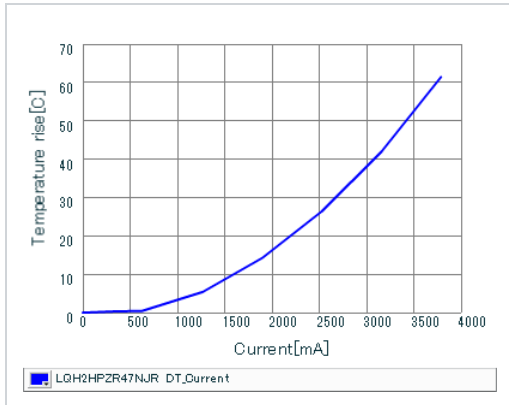
Inductance-Frequency characteristics (Typ.)



Inductance-Current characteristics (Typ.)



Temperature rise characteristics (Typ.)



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