

## Inductors (Coils)

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# MHQ0402P3N1BT000



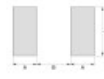
**Applications** Commercial Grade

- Feature**
- Multilayer** Multilayer
  - Non-Mag Core** Non-Magnetic Core (Dielectric Ceramic)
  - Super High Q** Super High Q

**Series | Type** MHQ-P

**Status** Production (Not Recommended for New Design)  
Recommended Alternate Part No. : [MHQ0402PSA3N1BT000](#) (Interchangeability is not guaranteed.)

**Brand** TDK



Images are for reference only and show exemplary products.

PDF file of this page

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### Documents

- Catalog
- RoHS Certificate
- SVHC/REACH Certificate
- Product Lineup
- [Selection Guide] Inductors for high frequency applications [Update](#)
- Sample Kits

### Technical Support Tools

- S-parameter
- SPICE Netlist (Simple)
- SPICE Netlist (Precision)
- Equivalent Circuit Model

Size	
Length(L)	0.44mm ±0.02mm
Width(W)	0.24mm ±0.02mm
Thickness   Height	0.24mm ±0.02mm
Recommended Land Pattern (A)	0.15mm to 0.20mm
Recommended Land Pattern (B)	0.20mm Nom.
Recommended Land Pattern (C)	0.18mm to 0.20mm

Electrical Characteristics	
Inductance	3.1nH ±0.1nH at 500MHz
Rated Current	200mA
DC Resistance [Typ.]	260mΩ
DC Resistance [Max.]	500mΩ
Self Resonant Frequency [Min.]	5GHz
Self Resonant Frequency [Typ.]	7.9GHz
Q [Min.]	10 at 500MHz
Q [Typ.]	13 at 500MHz

Other	
Operating Temp. Range (Including Self-Temp. Rise)	-55 to 125°C
Soldering Method	Reflow
AEC-Q200	No
Packing	Punched (Paper)Taping [180mm Reel]
Package Quantity	20000pcs
Weight	0.00011g

**Characteristic Graph (This is reference data, and does not guarantee the products characteristics.)**

**Impedance**

**Rac**

MHQ0402P3N1BT000

Change settings

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**Inductance**

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**Q**

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- Wireless Power Transfer >
- FA Systems >

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