

## Inductors (Coils)

- Product Top Page
- Search by Part No.
- Search by Characteristics
- Cross Reference
- Catalog
- Tech Notes

▼ more

# MHQ0402P2N8BT000



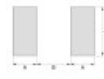
**Applications** Commercial Grade

- 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. : [MHQ0402PSA2N8BT000](#) (Interchangeability is not guaranteed.)

**Brand** TDK



Images are for reference only and show exemplary products.

PDF file of this page

Contact

### 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	2.8nH ±0.1nH at 500MHz
Rated Current	200mA
DC Resistance [Typ.]	190mΩ
DC Resistance [Max.]	400mΩ
Self Resonant Frequency [Min.]	6GHz
Self Resonant Frequency [Typ.]	8GHz
Q [Min.]	10 at 500MHz
Q [Typ.]	14 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**

MHQ0402P2N8BT000

Change settings

MHQ0402P2N8BT000

Change settings

### Inductance

MHQ0402P2N8BT000

Change settings

### Q

MHQ0402P2N8BT000

Change settings



[Selection Guides](#)   [Search by Part No.](#)   [Search by Characteristics](#)   [Distributor Inventory Check](#)   [Cross Reference](#)

#### Products

- Capacitors >
- Inductors (Coils) >
- EMC Components >
- RF Components and Modules >
- Voltage / Current / Temperature Protection Devices >
- Sensors and Sensor Systems >
- Ceramic Switching / Heating, Piezo Components, Buzzers and Microphones >
- Transformers >
- Ferrites and Accessories >
- Noise Suppressing / Magnetic Sheet >
- Anechoic Chambers and Radio Wave Absorbers >
- Power Supplies >
- Magnets >
- Flash Storages >
- Wireless Power Transfer >
- FA Systems >

- Transparent Conductive Film >
- Micro Modules (Substrates with Built-in ICs, Products Utilizing with SESUB) >
- Solar Cells >
- Biosensor >
- Application Specific IC (ASIC) Development and Supply >

**Application Guides**

**Technical Support**

**Tech Library**

**Environment**

**Contact**

**News**

**Home**

**About TDK**

**TDK Worldwide**

[Terms of Use](#)   [Privacy Policy](#)   [Cookie Policy](#)

Copyright(c) 2019 TDK Corporation. All rights reserved.  
TDK logo is a trademark or registered trademark of TDK Corporation.

