

Inductors (Coils)

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MHQ0402P7N5HT000



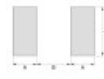
Applications Commercial Grade

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

Series | Type MHQ-P

Status Production (Not Recommended for New Design)
Recommended Alternate Part No. : [MHQ0402PSA7N5HT000](#) (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 | 7.5nH ±3% at 500MHz |
| Rated Current | 200mA |
| DC Resistance [Typ.] | 740mΩ |
| DC Resistance [Max.] | 1.2Ω |
| Self Resonant Frequency [Min.] | 3GHz |
| Self Resonant Frequency [Typ.] | 4.4GHz |
| 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

MHQ0402P7N5HT000

Change settings

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Change settings

Inductance

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Q

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- Wireless Power Transfer >
- FA Systems >

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