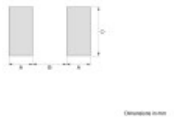
Inductors (Coils)

MHQ0402P8N2HT000

RoHS REACH SVHC-Free Halogen Free Lead Free

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. : MHQ0402PSA8N2HT000 (Interchangeability is not guaranteed.)
Brand	TDK



Images are for reference only and show exemplary products.

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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	8.2nH ±3% at 500MHz
Rated Current	180mA
DC Resistance [Typ.]	690mΩ
DC Resistance [Max.]	1.2Ω
Self Resonant Frequency [Min.]	3GHz
Self Resonant Frequency [Typ.]	4.7GHz
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

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Change settings

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Inductance

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Q

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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

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