MHQ0603P Series Inductor Kit

Consumer Grade High Frequency Inductor Kit

The TDK MHQ0603P Series High Frequency Inductors are made up of thin sheets of unique ceramic material layered together. A coil pattern is printed onto each layer of material with metallic paste (normally silver). The sheets are then layered so a spiral-shaped internal electrode pattern is created, which eliminates the need to wind wire onto a core. This multilayer configuration allows for high Q characteristics that are equivalent to that of air core wound inductors, while allowing for miniaturization and mass production.

Features

- High Q factor contributes to reduced losses in RF circuits
- Dimensions: 0.65 x 0.35 x 0.35mm (L x W x H)
- Operating temperature range of –55°C to +125°C
- Storage temperature range of –55°C to +125°C (after PC board mounting)

High-Frequency

Consumer

Lead Free | Halogen Free | REACH | RoHS COMPLIANT

Datasheet

Applications

- Smart phones
- Bluetooth
- UWB
- Tablet terminals
- W-LAN
- High frequency modules (PAs, VCOs, FEMs)
- Other mobile communication circuits

MHQ0603P Series Inductor Kit Includes:

Case Size: 0603 Metric (0201Inch)
Inductance Range: 0.6nH—39nH (standard tolerance)
Current Rating (max): 1000mA—160mA
SRF (min): 10GHz –1.6Ghz

Note that two part numbers are needed to order the complete range of inductance:

Digi-Key Part Number	Inductance Range	Number of Pieces in Kit
445-173065-KIT-ND	0.6-11nH	20 pieces per value - 600 pcs total
445-173084-KIT-ND	12-39nH	20 pieces per value - 260 pcs total

Now Available at: Digi-Key Corporation 445-173065-KIT-ND & 445-173084-KIT-ND

MHQ0603P Series Inductor Kit Includes:

Digi-Key Part Number	TDK Item List	Item Description
445-173065-KIT-ND	MHQ0603P0N6CT000	0603 0.6±0.2nH
	MHQ0603P0N7CT000	0603 0.7±0.2nH
	MHQ0603P0N8CT000	0603 0.8±0.2nH
	MHQ0603P0N9CT000	0603 0.9±0.2nH
	MHQ0603P1N0CT000	0603 1.0±0.2nH
	MHQ0603P1N1CT000	0603 1.1±0.2nH
	MHQ0603P1N2CT000	0603 1.2±0.2nH
	MHQ0603P1N3CT000	0603 1.3±0.2nH
	MHQ0603P1N5CT000	0603 1.5±0.2nH
	MHQ0603P1N6CT000	0603 1.6±0.2nH
	MHQ0603P1N8CT000	0603 1.8±0.2nH
	MHQ0603P2N0CT000	0603 2.0±0.2nH
	MHQ0603P2N2CT000	0603 2.2±0.2nH
	MHQ0603P2N4CT000	0603 2.4±0.2nH
	MHQ0603P2N7CT000	0603 2.7±0.2nH
	MHQ0603P3N0CT000	0603 3.0±0.2nH
	MHQ0603P3N3CT000	0603 3.3±0.2nH
	MHQ0603P3N6CT000	0603 3.6±0.2nH
	MHQ0603P3N9CT000	0603 3.9±0.2nH
	MHQ0603P4N3ST000	0603 4.3±0.3nH
	MHQ0603P4N7ST000	0603 4.7±0.3nH
	MHQ0603P5N1ST000	0603 5.1±0.3nH
	MHQ0603P5N6ST000	0603 5.6±0.3nH
	MHQ0603P6N2ST000	0603 6.2±0.3nH
	MHQ0603P6N8JT000	0603 6.8±5%
	MHQ0603P7N5JT000	0603 7.5±5%
	MHQ0603P8N2JT000	0603 8.2±5%
	MHQ0603P9N1JT000	0603 9.1±5%
	MHQ0603P10NJT000	0603 10±5%
	MHQ0603P11NJT000	0603 11±5%
445-173084-KIT-ND	MHQ0603P12NJT000	0603 12±5%
	MHQ0603P13NJT000	0603 13±5%
	MHQ0603P15NJT000	0603 15±5%
	MHQ0603P16NJT000	0603 16±3%
	MHQ0603P18NJT000	0603 18±5%
	MHQ0603P20NJT000	0603 20±5%
	MHQ0603P22NJT000	0603 22±5%
	MHQ0603P24NJT000	0603 24±5%
	MHQ0603P27NJT000	0603 27±5%
	MHQ0603P30NJT000	0603 30±5%
	MHQ0603P33NJT000	0603 33±5%
	MHQ0603P36NJT000	0603 36±5%
	MHQ0603P39NJT000	0603 39±5%