



High Frequency, Surface Mount, Laser Spiral, **Coated Inductors**



FEATURES

- Very small in size
- High self-resonant frequency values
- High Q values relative to size at higher frequencies
- Coated coil provides protection and moisture resistance



- Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 10 000/reel, EIA-481
- L and Q value not affected by mounting orientation
- 100 % lead (Pb)-free and RoHS compliant

TEST EQUIPMENT

- Inductance and Q measured on HP4291B
- SRF measured on HP8753E
- DCR measured on HP4338B

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 nH to 100 nH Inductance and Tolerance: ± 0.3 nH for 1.0 - 5.6 nH

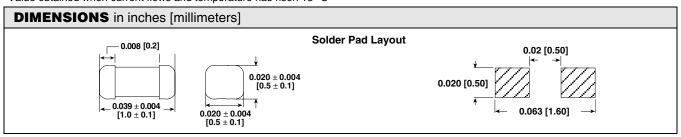
± 5 % for 6.8 nH to 100 nH

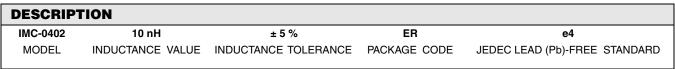
- 40 °C to + 100 °C **Operating Temperature:**

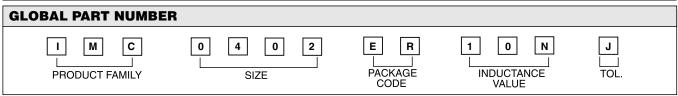
Core Material: Ceramic

| Core material. | 06 | ranic | | * BOTT MOGOC | aled off fit 4000D | | |
|---|--|--|--|--|--|--|---|
| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | | |
| INDUCTANCE (nH) | TOLERANCE | TEST FREQUENCY L (MHz) | Q TYPICAL | TEST FREQUENCY Q (MHz) | SELF-RESONANT FREQUENCY MINIMUM (MHz) | DCR MAXIMUM (Ohms) | RATED DC* CURRENT (mA) |
| 1.0 1.25 1.58 2.73 3.97 4.568 2.02 5.82 1.15 1.22 2.33 4.768 2.27 3.39 4.768 2.27 3.39 4.768 2.27 3.39 4.768 2.27 3.39 4.768 2.27 3.39 4.768 2.27 3.39 4.768 2.27 3.39 4.768 2.27 3.39 4.768 4.7 | ±0.33 nn nn + ±55.5%%, %%, %%, %%, %%, %%, %%, %%, %%, %%, | 100 100 100 100 100 100 100 100 100 100 | 21 21 21 22 21 22 20 20 20 20 20 20 20 20 20 20 20 20 | 800 800 800 800 800 800 800 800 800 800 | 6000 6000 6000 6000 5500 5500 5200 4800 4600 4000 3500 2800 2800 2500 2200 1800 1800 1800 1800 1500 1500 1500 | 0.05 0.06 0.07 0.08 0.19 0.15 0.17 0.30 0.35 0.41 0.45 0.60 0.70 0.80 1.20 1.40 2.10 2.50 4.50 5.50 | 400 400 400 400 400 400 360 360 320 320 320 240 240 200 170 150 110 90 |

^{*}Value obtained when current flows and temperature has risen 15 °C









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