

Thin-Film RF/Microwave Inductor Technology

Accu-L® Series

L0402 Tight Tolerance RF Inductor



GENERAL DESCRIPTION ITF TECHNOLOGY

The L0402 LGA Inductor is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

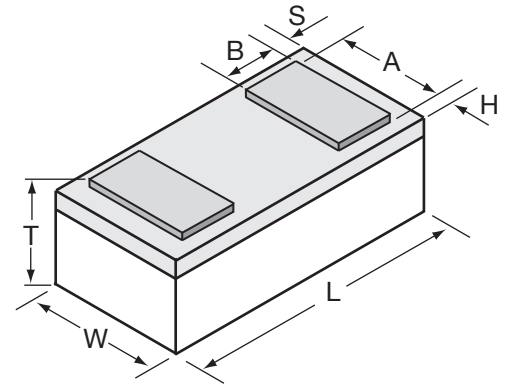
APPLICATIONS

- Mobile Communications
- Satellite TV Receivers
- GPS
- Vehicle Location Systems
- Wireless LAN's
- Filters
- Matching Networks

LAND GRID ARRAY ADVANTAGES

- Inherent Low Profile
- Self Alignment during Reflow
- Excellent Solderability
- Low Parasitics
- Better Heat Dissipation

DIMENSIONS: millimeters (inches) (BOTTOM VIEW)



| | |
|----------|----------------------------|
| L | 1.00±0.10 (0.039±0.004) |
| W | 0.58±0.07 (0.023±0.003) |
| T | 0.35±0.10 (0.014±0.004) |

| | |
|-------------|-----------------------------|
| A | 0.48±0.05 (0.019±0.002) |
| B | 0.17±0.05 (0.007±0.002) |
| S, H | 0.064±0.05 (0.003±0.002) |

HOW TO ORDER



P/N Example: **L04023R3BHNR**



QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, IR, 4 hours

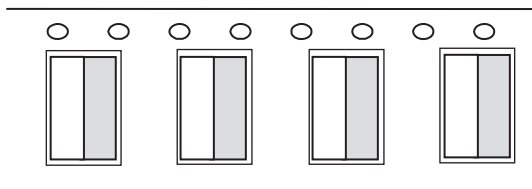
TERMINATION

Nickel/Lead Free solder coating compatible with automatic soldering

technologies: reflow, wave soldering, vapor phase and manual.

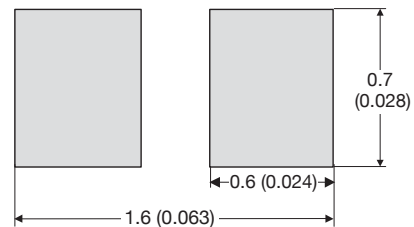
MAKING AND ORIENTATION IN TAPE

(Top View)



Recommended Pad Layout Dimensions

mm (inches)



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ELECTRICAL SPECIFICATIONS

| L(nH) | Tolerance A=±0.05nH, B=±0.1nH, C=±0.2nH, D=±0.5nH | 450MHz | | | 900MHz | 1900MHz | 2400MHz | SRF min. (MHz) | R _{DC} max. (Ω) | I _{DC} max. (mA) |
|-------|---|------------|------------|------------|------------|------------|------------|----------------------|--------------------------------|---------------------------------|
| | | Q (min) | Q (Typ) | Q (Typ) | Q (Typ) | Q (Typ) | Q (Typ) | | | |
| 0.56 | ± 0.05nH, ± 0.1nH | 35 | 45 | 55 | 65 | 75 | 20000 | 0.02 | 1000 | |
| 0.68 | ± 0.05nH, ± 0.1nH | 30 | 40 | 50 | 60 | 70 | 20000 | 0.04 | 750 | |
| 0.82 | ± 0.05nH, ± 0.1nH | 25 | 40 | 50 | 60 | 70 | 20000 | 0.06 | 500 | |
| 1.0 | ± 0.05nH, ± 0.1nH | 20 | 30 | 35 | 40 | 50 | 20000 | 0.15 | 500 | |
| 1.2 | ± 0.05nH, ± 0.1nH, ± 0.2nH | 20 | 30 | 30 | 40 | 45 | 20000 | 0.20 | 400 | |
| 1.5 | ± 0.05nH, ± 0.1nH, ± 0.2nH | 20 | 25 | 30 | 40 | 40 | 18000 | 0.20 | 400 | |
| 1.8 | ± 0.05nH, ± 0.1nH, ± 0.2nH | 18 | 20 | 30 | 35 | 40 | 16000 | 0.20 | 400 | |
| 2.2 | ± 0.05nH, ± 0.1nH, ± 0.2nH | 15 | 20 | 25 | 35 | 40 | 15000 | 0.20 | 400 | |
| 2.7 | ± 0.05nH, ± 0.1nH, ± 0.2nH | 15 | 20 | 25 | 35 | 40 | 9500 | 0.25 | 250 | |
| 3.3 | ± 0.1nH, ± 0.2nH, ± 0.5nH | 15 | 20 | 25 | 35 | 40 | 8500 | 0.40 | 250 | |
| 3.9 | ± 0.1nH, ± 0.2nH, ± 0.5nH | 13 | 20 | 20 | 30 | 30 | 8000 | 0.45 | 250 | |
| 4.7 | ± 0.1nH, ± 0.2nH, ± 0.5nH | 13 | 20 | 20 | 30 | 30 | 7500 | 0.45 | 250 | |
| 5.6 | ± 0.1nH, ± 0.2nH, ± 0.5nH | 13 | 20 | 20 | 30 | 30 | 7000 | 0.65 | 200 | |
| 6.8 | ± 0.1nH, ± 0.2nH, ± 0.5nH | 12 | 15 | 20 | 25 | 30 | 6500 | 0.90 | 200 | |

Please contact factory for intermediate inductance values within the indicated range.

单击下面可查看定价，库存，交付和生命周期等信息

[>>AVX](#)