**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

**HOW TO ORDER**

P/N Example: L04023R3BHNTR

**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

**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)

**MAKING AND ORIENTATION IN TAPE**

**Recommended Pad Layout Dimensions** mm (inches)

- Top View:
  - 0.7 (0.028)
  - 1.6 (0.063)

- Bottom View:
  - 0.6 (0.024)

Technologies: reflow, wave soldering, vapor phase and manual.
**ELECTRICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>L(nH)</th>
<th>Tolerance A=±0.05nH, B=±0.1nH, C=±0.2nH, D=±0.5nH</th>
<th>Q (min)</th>
<th>Q (Typ)</th>
<th>Q (Typ)</th>
<th>Q (Typ)</th>
<th>SRF min. (GHz)</th>
<th>R_{dc} max. (Ω)</th>
<th>I_{dc} max. (mA)</th>
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<td>0.56</td>
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<td>35</td>
<td>45</td>
<td>55</td>
<td>65</td>
<td>75</td>
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<td>50</td>
<td>60</td>
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Please contact factory for intermediate inductance values within the indicated range.