

# Accu-L® 0201 Tight Tolerance

## SMD RF Thin Film Tuning Inductor



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### ACCU-L® TECHNOLOGY

The L0201 SMD Tuning 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

### HOW TO ORDER

**L0201**

**XXX**

**X**

**H**

**S**

**TR**

Inductance  
(nH)

Tolerance

Series

Lead Free  
Termination

Taped &  
Reeled



P/N Example: **L02013R3BHSTR**

### QUALITY INSPECTION

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

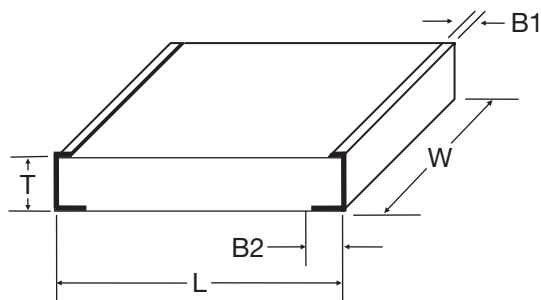
- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C,  $I_R$ , 4 hours

### TERMINATION

Nickel/Lead Free solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### DIMENSIONS: (TOP View)

millimeters (inches)

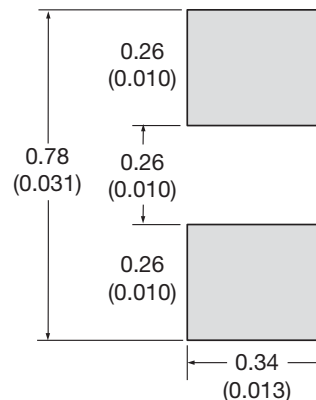


|          |                              |
|----------|------------------------------|
| <b>L</b> | 0.600±0.050<br>(0.024±0.002) |
| <b>W</b> | 0.325±0.050<br>(0.013±0.002) |
| <b>T</b> | 0.225±0.050<br>(0.009±0.002) |

|           |                              |
|-----------|------------------------------|
| <b>B1</b> | 0.100±0.100<br>(0.004±0.004) |
| <b>B2</b> | 0.150±0.050<br>(0.006±0.002) |

### Recommended Pad Layout Dimensions

mm (inches)



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### ELECTRICAL SPECIFICATIONS

| L(nH) | 450MHz                                                  | Q<br>(min) | 900MHz     | 1900MHz    | 2400MHz    | SRF<br>min.<br>(GHz) | R <sub>DC</sub><br>max.<br>(Ω) | I <sub>DC</sub><br>max.<br>(mA) |
|-------|---------------------------------------------------------|------------|------------|------------|------------|----------------------|--------------------------------|---------------------------------|
|       | Tolerance<br>A=±0.05nH, B=±0.1nH,<br>C=±0.2nH, D=±0.5nH |            | Q<br>(Typ) | Q<br>(Typ) | Q<br>(Typ) |                      |                                |                                 |
| 0.33  | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 13         | 24         | 36         | 39         | 35                   | 0.1                            | 550                             |
| 0.39  | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 11         | 23         | 34         | 38         | 33                   | 0.1                            | 550                             |
| 0.47  | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 10         | 18         | 26         | 30         | 32                   | 0.1                            | 550                             |
| 0.56  | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 9          | 16         | 24         | 27         | 31                   | 0.1                            | 500                             |
| 0.68  | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 8          | 19         | 28         | 32         | 30                   | 0.2                            | 500                             |
| 0.82  | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 8          | 19         | 28         | 32         | 28                   | 0.2                            | 400                             |
| 1.0   | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 7          | 16         | 26         | 30         | 26                   | 0.2                            | 400                             |
| 1.2   | ±0.05nH, ± 0.1nH, ± 0.2nH                               | 7          | 16         | 26         | 30         | 24                   | 0.3                            | 300                             |
| 1.5   | ± 0.1nH, ± 0.2nH, ± 0.5nH                               | 7          | 16         | 26         | 30         | 23                   | 0.5                            | 250                             |
| 1.8   | ± 0.1nH, ± 0.2nH, ± 0.5nH                               | 7          | 15         | 25         | 29         | 20                   | 0.5                            | 250                             |
| 2.2   | ± 0.1nH, ± 0.2nH, ± 0.5nH                               | 7          | 15         | 22         | 24         | 18                   | 0.6                            | 200                             |
| 2.7   | ± 0.1nH, ± 0.2nH, ± 0.5nH                               | 7          | 15         | 22         | 24         | 14                   | 0.7                            | 180                             |
| 3.3   | ± 0.1nH, ± 0.2nH, ± 0.5nH                               | 7          | 15         | 22         | 24         | 13                   | 1.0                            | 150                             |

All intermediate Inductance values within the indicated range are available.