

# "High Frequency Ceramic Solutions"

## 1.45 GHz Balun

Detail Specification: 04/07/04

P/N 1450BL15A200

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### General Specifications

|                            |              |
|----------------------------|--------------|
| Part Number                | 1450BL15A200 |
| Frequency (MHz)            | 1400~1500    |
| Unbalanced Impedance       | 50 $\Omega$  |
| Differential Balanced Imp. | 200 $\Omega$ |
| Insertion Loss             | 1.0 dB max.  |
| Return Loss                | 9.5 dB min.  |
| Phase Difference (degree)  | 180 $\pm$ 10 |
| Amplitude Difference       | 2 dB max.    |

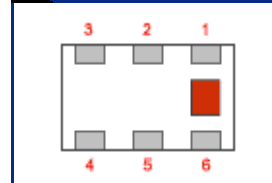
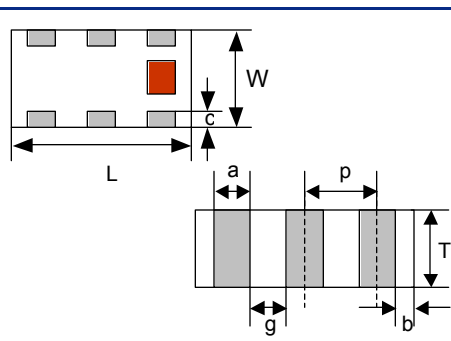
|                       |                   |
|-----------------------|-------------------|
| Operating Temperature | -40 to +85°C      |
| Reel Quantity         | 4,000             |
| Power Capacity        | 3.0 watts max.    |
| Impedance             | 50 / 200 $\Omega$ |

### Terminal Configuration

| No. | Function        |
|-----|-----------------|
| 1   | Unbalanced Port |
| 2   | GND             |
| 3   | Balanced Port   |
| 4   | Balanced Port   |
| 5   | GND             |
| 6   | NC              |

### Mechanical Dimensions

|   | In                       | mm                  |
|---|--------------------------|---------------------|
| L | 0.079 $\pm$ 0.004        | 2.00 $\pm$ 0.10     |
| W | 0.049 $\pm$ 0.004        | 1.25 $\pm$ 0.10     |
| T | 0.033 $\pm$ 0.004        | 0.85 $\pm$ 0.10     |
| a | 0.012 $\pm$ 0.004        | 0.30 $\pm$ 0.10     |
| b | 0.008 $\pm$ 0.004        | 0.20 $\pm$ 0.10     |
| c | 0.012 $\pm$ 0.004/-0.006 | 0.30 $\pm$ 0.1/-0.2 |
| g | 0.014 $\pm$ 0.004        | 0.35 $\pm$ 0.10     |
| p | 0.026 $\pm$ 0.002        | 0.65 $\pm$ 0.05     |

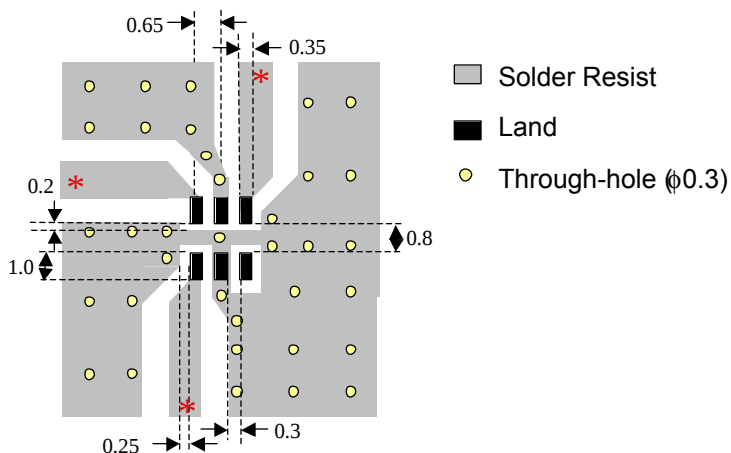


### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to provide proper impedance matching characteristics.

Units: mm



Units: mm

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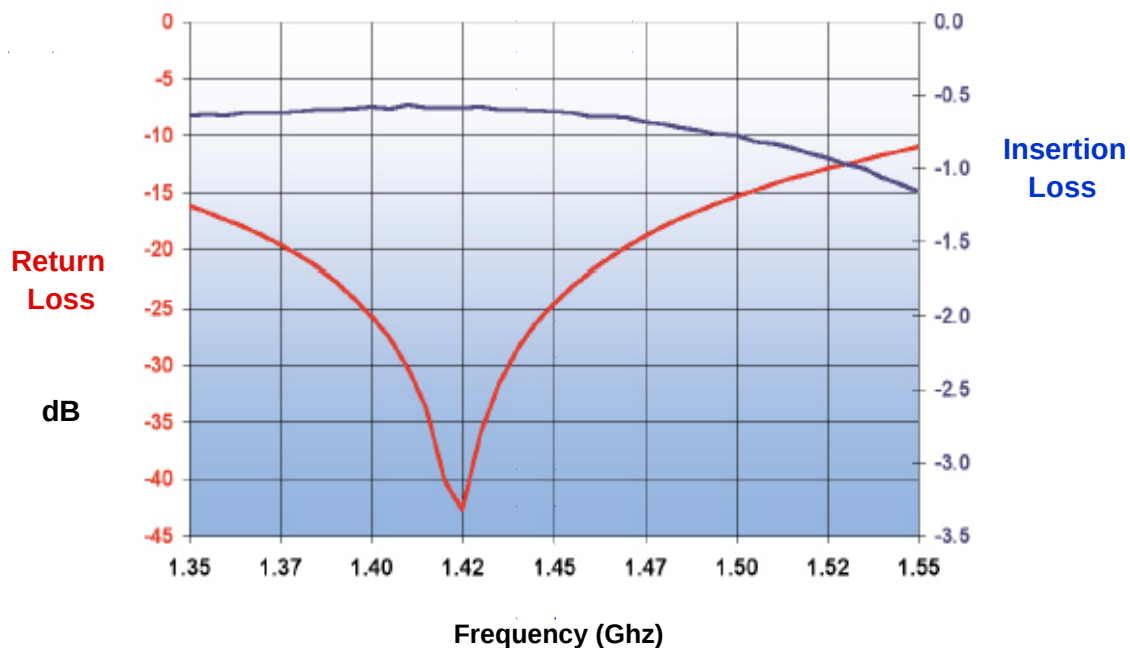
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### Typical Electrical Performance (T=25°C)



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