# 900 MHz Balun

**P/N 0917BL18B100**

**Detail Specification: 03/06/2003**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency (MHz)</th>
<th>Impedance Unbal./Bal.</th>
<th>Insertion Loss</th>
<th>Return Loss</th>
<th>Phase Difference</th>
<th>Amplitude Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>0917BL18B100_</td>
<td>889 - 945</td>
<td>50/100 Ω</td>
<td>1.0 dB max.</td>
<td>9.5 dB min.</td>
<td>180°±10°</td>
<td>2.0 dB max.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Impedance</th>
<th>Operating Temperature Range</th>
<th>Reel Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Watts max</td>
<td>50 /100 Ω</td>
<td>-40 to +85°C</td>
<td>3,000</td>
</tr>
</tbody>
</table>

## Mechanical Dimensions

<table>
<thead>
<tr>
<th>L</th>
<th>W</th>
<th>T</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>g</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>0.126 ± .006</td>
<td>0.064 ± .006</td>
<td>0.034 ± .004</td>
<td>0.022 ± .006</td>
<td>0.014 ± .006</td>
<td>0.012 ± .004/-0.008</td>
<td>0.016 ± .006</td>
</tr>
<tr>
<td>mm</td>
<td>3.2 ± 0.15</td>
<td>1.6 ± 0.15</td>
<td>0.85 ± 0.1</td>
<td>0.55 ± 0.15</td>
<td>0.35 ± 0.15</td>
<td>0.3±0.1/-0.2</td>
<td>0.4 ± 0.15</td>
</tr>
</tbody>
</table>

## Terminal Configuration

1. GND or DC Feed
2. Unbalanced Port (1)
3. GND or DC Feed
4. Balanced Port (2)
5. NC
6. Balanced Port (3)

Mount devices with colored mark facing up.

### Mounting Considerations

**With DC Feed**

* Line width should be designed to provide 50Ω impedance matching characteristics.

By-pass capacitor(s) should be connected when feeding DC power.

**Units: mm**

- Solder Resist
- Land
- Through-hole (φ 0.3)

**Without DC Feed**
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Insertion Loss

![Insertion Loss Graph]

Return Loss

![Return Loss Graph]