Surface Mount
RF Transformer
50Ω  0.5 to 650 MHz

Maximum Ratings
- Operating Temperature: -20°C to 85°C
- Storage Temperature: -55°C to 100°C
- RF Power: 1W
- DC Current: 30mA

Features
- Excellent return loss, 17 dB typ. in 1 dB bandwidth
- Aqueous washable
- Protected under US patent 6,133,525

Applications
- Impedance matching
- Balanced amplifier

Transformer Electrical Specifications

<table>
<thead>
<tr>
<th>Ω RATIO (Secondary/Primary)</th>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 dB MHz</td>
<td>2 dB MHz</td>
</tr>
<tr>
<td>1.5</td>
<td>0.5-650</td>
<td>0.5-650</td>
</tr>
</tbody>
</table>

* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

Outline Drawing

PCB Land Pattern

Outline Dimensions (inch)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>wt</th>
<th>grams</th>
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<tbody>
<tr>
<td>.272</td>
<td>.310</td>
<td>.220</td>
<td>.100</td>
<td>.112</td>
<td>.055</td>
<td>.100</td>
<td>.030</td>
<td>.026</td>
<td>.065</td>
<td>.300</td>
<td>.076</td>
<td>.060</td>
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<tr>
<td>6.91</td>
<td>7.87</td>
<td>5.59</td>
<td>2.54</td>
<td>2.84</td>
<td>2.64</td>
<td>1.40</td>
<td>2.54</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Suggested Layout. Tolerance to be within ±0.002

Config. A

Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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