Surface Mount
RF Transformer
50Ω 0.3 to 300 MHz

Maximum Ratings
Operating Temperature -20°C to 85°C
Storage Temperature -55°C to 100°C
RF Power 0.25W
DC Current 30mA

Permanent damage may occur if any of these limits are exceeded.

Pin Connections
PRIMARY DOT 3
PRIMARY 1
PRIMARY CT 2
SECONDARY DOT 4
SECONDARY 6
SECONDARY CT 5

Features
• good return loss, 18 dB in 1 dB bandwidth
• excellent amplitude unbalance, 0.15 dB typ. and phase unbalance, 1 deg. typ. in 1 dB bandwidth
• aqueous washable
• protected under U.S. Patent 6,133,525

Applications
• impedance matching
• baluns

Transformer Electrical Specifications

<table>
<thead>
<tr>
<th>Ω RATIO</th>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS*</th>
<th>PHASE UNBALANCE (Deg.)</th>
<th>AMPLITUDE UNBALANCE (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.3</td>
<td>0.3</td>
<td>0.4-200</td>
<td>0.5-90</td>
</tr>
<tr>
<td>1</td>
<td>0.3-300</td>
<td>0.3-300</td>
<td>0.4-200</td>
<td>0.5-90</td>
</tr>
</tbody>
</table>

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

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-Circuits’ applicable established test performance criteria and measurement instructions.
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Demo Board MCL P/N: TB-211

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