Surface Mount

RF Transformer

50Ω  4.5 to 3000 MHz

Maximum Ratings
- Operating Temperature: -40°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: 6
- PRIMARY: 4
- SECONDARY DOT: 1
- SECONDARY: 3
- NOT USED: 2

Outline Dimensions (inch/mm)

PCB Land Pattern

Suggested Layout, Tolerance to be within ±0.002

Features
- wideband, 4.5 to 3000 MHz
- balanced transmission line
- good return loss
- excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 2 deg typ. in 1 dB bandwidth
- plastic base with leads
- aqueous washable

Applications
- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS
- MMDS

Electrical Specifications (T_{AMB}=25°C)

<table>
<thead>
<tr>
<th>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></td>
<td>3 dB MHz</td>
<td>2 dB MHz</td>
<td>1 dB MHz</td>
</tr>
<tr>
<td>1</td>
<td>4.5-3000</td>
<td>2000-3000</td>
<td>1000-2000</td>
<td>4.5-1000</td>
</tr>
</tbody>
</table>

*Insertion Loss is referenced to mid-band loss, 0.5 dB typ.

Available Tape and Reel at no extra cost

Reel Size Devices/Reel

- 7" 20, 50, 100, 200, 500
- 13" 1000, 2000

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.
C. The parts covered by this specification document are subject to Mini-Circuit’s standard limited warranty and terms and conditions (collectively, “Standard Terms”); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit’s website at www.minicircuits.com/MCLStore/terms.jsp

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