Surface Mount
RF Transformer

TC1-1-43A+

50Ω 650 to 4000 MHz

Maximum Ratings
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 100°C
- RF Power: 250mW
- DC Current: 30mA

Pin Connections
- PRIMARY DOT: 6
- PRIMARY: 4
- SECONDARY DOT: 1
- SECONDARY: 3
- NOT USED: 2

Features
- wideband, 650 to 4000 MHz
- balanced transmission line
- good return loss
- excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 3 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>2 dB MHz</td>
<td>1 dB MHz</td>
<td>Typ.</td>
<td>1 dB bandwidth</td>
</tr>
<tr>
<td>1</td>
<td>650-4000</td>
<td>650-4000</td>
<td>800-3000</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Available Tape and Reel at no extra cost
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-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp

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