Surface Mount

RF Transformer

ADT1-1WT

75Ω 0.4 to 800 MHz

Maximum Ratings
- Operating Temperature: -20°C to 85°C
- Storage Temperature: -55°C to 100°C
- RF Power: 0.5W
- DC Current: 30mA

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

Pin Connections
- PRIMARY DOT: 3
- PRIMARY: 1
- SECONDARY DOT: 6
- SECONDARY: 4
- SECONDARY CT: 2
- NOT USED: 5

Table: Typical Performance Data

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS (dB)</th>
<th>INPUT R. LOSS (dB)</th>
<th>AMPLITUDE UNBALANCE (dB)</th>
<th>PHASE UNBALANCE (Deg.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.30</td>
<td>0.68</td>
<td>12.11</td>
<td>0.15</td>
<td>0.25</td>
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<tr>
<td>1.00</td>
<td>0.57</td>
<td>14.38</td>
<td>0.07</td>
<td>0.36</td>
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<tr>
<td>5.00</td>
<td>0.42</td>
<td>15.29</td>
<td>0.03</td>
<td>0.41</td>
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<tr>
<td>10.00</td>
<td>0.38</td>
<td>15.54</td>
<td>0.00</td>
<td>0.40</td>
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<tr>
<td>25.00</td>
<td>0.38</td>
<td>15.73</td>
<td>0.02</td>
<td>0.37</td>
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<tr>
<td>50.00</td>
<td>0.38</td>
<td>15.91</td>
<td>0.03</td>
<td>0.49</td>
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<td>100.00</td>
<td>0.48</td>
<td>17.38</td>
<td>0.03</td>
<td>1.48</td>
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<tr>
<td>200.00</td>
<td>0.64</td>
<td>19.64</td>
<td>0.26</td>
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<td>400.00</td>
<td>1.18</td>
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<td>1.45</td>
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<tr>
<td>500.00</td>
<td>2.44</td>
<td>9.75</td>
<td>1.72</td>
<td>0.40</td>
</tr>
</tbody>
</table>

Features
- Excellent amplitude unbalance, 0.1 dB typ.
- And phase unbalance, 1 deg. typ. in 1 dB bandwidth
- Aqueous washable
- Protected under US patent 6,133,525

Applications
- Impedance matching
- Balanced amplifier

Outline Dimensions (inch)

A  .272  .310  .220  .100  .112  .055  .100
B  6.91  7.67  5.09  2.54  2.84  1.40  2.54
C  .030  .026  .065  .300
D  .76  .66  1.65  7.62
G  .20

Outline Drawing

Demo Board MCL P/N: TB-430

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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