Surface Mount
RF Transformer
TC8-1
50Ω 2 to 500 MHz

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

Features
- Wideband, 2 to 500 MHz
- Good return loss
- Leadless surface mount
- Aqueous washable

Applications
- Push-pull amplifier
- Impedance matching

Outline Dimensions (inch)

Config. A

Outline Drawing AT224

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

Outline Dimensions (mm)

Transformer Electrical Specifications

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>Ω RATIO</th>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC8-1</td>
<td>8</td>
<td>2-500</td>
<td>3 dB MHz, 2 dB MHz, 1 dB MHz</td>
</tr>
</tbody>
</table>

* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

Typical Performance Data

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS (dB)</th>
<th>INPUT R. LOSS (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>1.20</td>
<td>10.65</td>
</tr>
<tr>
<td>3.00</td>
<td>1.03</td>
<td>12.20</td>
</tr>
<tr>
<td>5.00</td>
<td>0.90</td>
<td>14.01</td>
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<tr>
<td>7.50</td>
<td>0.84</td>
<td>15.09</td>
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<tr>
<td>10.00</td>
<td>0.82</td>
<td>15.64</td>
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<tr>
<td>15.00</td>
<td>0.86</td>
<td>15.86</td>
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<tr>
<td>100.00</td>
<td>0.90</td>
<td>15.29</td>
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<tr>
<td>400.00</td>
<td>1.15</td>
<td>9.68</td>
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<tr>
<td>450.00</td>
<td>1.34</td>
<td>9.15</td>
</tr>
<tr>
<td>500.00</td>
<td>1.51</td>
<td>8.67</td>
</tr>
</tbody>
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