MABA-008752-TC1P57

1.5:1 E-Series RF Transformer
2 - 1000 MHz

Features
- 1.5:1 Impedance Ratio
- Surface Mount Package
- Tape and Reel Packaging Available
- 260°C Reflow Compatible
- RoHS* compliant version of the ETC1.5-7

Description
The MABA-008752-TC1P57 is a RoHS compliant 1.5:1 RF transformer in a surface mount package. Typical applications include single to single mode impedance conversion and matching.

The MABA-008752-TC1P57 is available in a SM-22 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Ordering Information

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MABA-008752-TC1P57</td>
<td>2000 piece reel</td>
</tr>
</tbody>
</table>

1. Reference Application Note M513 for reel size information.

Electrical Specifications: Freq. = 2 - 1000 MHz, \( T_A = 25^\circ C \), \( Z_0 = 50 \, \Omega \), \( P_{IN} = 0 \, \text{dBm} \)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency</th>
<th>Units</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss</td>
<td>2 - 300 MHz</td>
<td>dB</td>
<td>0.4</td>
<td>0.4</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>2 - 600 MHz</td>
<td></td>
<td>0.4</td>
<td>0.5</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td>2 - 1000 MHz</td>
<td></td>
<td>0.5</td>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Absolute Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>50 , \Omega \text{nominal}</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55°C to +125°C</td>
</tr>
</tbody>
</table>
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Typical Performance Curves: $T_A = 25^\circ C$, $Z_0 = 50 \Omega$, $P_{IN} = 0$ dBm

**Insertion Loss**

![Insertion Loss Graph]

**Return Loss**

![Return Loss Graph]

Outline Drawing (SM-22)

![Outline Drawing]

Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010, unless otherwise stated

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2 - 1000 MHz

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