MABA-009126-ET11SM

1:1 E-Series RF Transformer
0.3 - 400 MHz

Features
- 1:1 Impedance Ratio
- Surface Mount Package
- 260°C Reflow Compatible
- RoHS* Compliant Version of the ET1-1-SM1

Description
The MABA-009126-ET11SM is a RoHS Compliant 1:1 RF transformer in a surface mount package. Typical applications include single to balanced mode conversion and impedance matching.

The MABA-009126-ET11SM is available in a SM-1 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Electrical Specifications: Freq. = 0.3 - 400 MHz, \( T_A = 25^\circ \text{C}, Z_0 = 50 \, \Omega, P_{IN} = 0 \, \text{dBm} \)

<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 - 50 MHz</td>
<td>dB</td>
<td>0.6</td>
<td>1.0</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>0.6 - 250 MHz</td>
<td></td>
<td>1.0</td>
<td></td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>0.3 - 400 MHz</td>
<td></td>
<td>1.5</td>
<td></td>
<td>3.0</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MABA-009126-ET11SM</td>
<td>900 piece reel</td>
</tr>
</tbody>
</table>

Reference Application Note M513 for reel size information.

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Absolute Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Power</td>
<td>250 mW</td>
</tr>
<tr>
<td>DC Current</td>
<td>240 mA</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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0.3 - 400 MHz

Typical Performance Curves: \( T_A = 25^\circ C, \ Z_0 = 50 \ \Omega, \ P_{IN} = 0 \ \text{dBm} \)

**Insertion Loss**

![Insertion Loss Graph]

**Return Loss**

![Return Loss Graph]

Outline Drawing (SM-1)

![Outline Drawing]

Component Package Orientation

![Component Package]

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

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