MACPES0026

E-Series 2 Way 0° Power Divider
5 - 1000 MHz

Features
- 2 Way 0 Degree
- Surface mount
- Available on tape and reel
- 260° reflow compatible
- RoHS compliant and Pb free

Description
MACPES0026 is a 2 Way 0° power divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless and CATV applications. An external 160 Ohm chip resistor is required with this part.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MACPES0026TR</td>
<td>900 piece reel</td>
</tr>
</tbody>
</table>

Pin Configuration

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ground</td>
</tr>
<tr>
<td>2, 5</td>
<td>No Connection</td>
</tr>
<tr>
<td>3</td>
<td>Port 2</td>
</tr>
<tr>
<td>4</td>
<td>Port 1</td>
</tr>
<tr>
<td>6</td>
<td>Input</td>
</tr>
</tbody>
</table>

Electrical Specifications: Freq. = 5 - 1000 MHz, $T_A = 25°C$

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test Frequency (MHz)</th>
<th>Units</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
</table>
| Insertion Loss          | 5 - 40  
40 - 400  
400 - 500  
500 - 1000 | dB     | 0.6   | 0.6   | 0.8   | 1.0   |
| Isolation               | 5 - 40  
40 - 400  
400 - 500  
500 - 1000 | dB     | 26    | 26    | 19    | 19    |
| Amplitude & Unbalance   | 5 - 40  
40 - 400  
400 - 500  
500 - 1000 | dB     | —     | —     | 0.6   | 0.4   |
| Phase Unbalance         | 5 - 40  
40 - 400  
400 - 500  
500 - 1000 | °       | —     | —     | 3     | 3     |
| Output Return Loss      | 5 - 40  
40 - 870  
40 - 1000 | dB     | 20    | 24    | 14    |
| Input Return Loss       | 5 - 40  
40 - 870  
40 - 1000 | dB     | 20    | 22    | 15    |

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Recommended Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Absolute Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>1 W</td>
</tr>
<tr>
<td>Internal Load Dissipation</td>
<td>0.125 W</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55°C to +100°C</td>
</tr>
<tr>
<td>Soldering Temperature</td>
<td>260°C for 10 sec.</td>
</tr>
</tbody>
</table>

1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

Typical Performance Curves: $T_A = 25°C$

**Insertion Loss**

![Insertion Loss Graph]

**Isolation**

![Isolation Graph]

**Amplitude Unbalance**

![Amplitude Unbalance Graph]

**Phase Unbalance**

![Phase Unbalance Graph]

Full temperature plots available on request

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For further information and support please visit: https://www.macom.com/support
Outline Drawing, SM-135

1. Dimensions in inches [mm].
2. Tolerance: .xx ±0.2 mm, .xxx ±0.01 mm.