Features

- 0° - 180° Hybrid
- Seven Octave Frequency Range

Guaranteed Specifications*: From –55°C to +85°C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency Range</th>
<th>30-3000 MHz</th>
</tr>
</thead>
</table>
| Insertion Loss (less coupling)    | 30-100 MHz
100-1500 MHz
1500-3000 MHz                | 1.2 dB Max
1.5 dB Max
2.5 dB Max                |
| Isolation                         | 30-100 MHz
100-1500 MHz
1500-3000 MHz                | 25 dB Min
20 dB Min
20 dB Min                |
| Amplitude Balance                 | 2-2000 MHz               | 0.4 dB Max      |
| VSWR                              | 30-100 MHz
100-1500 MHz
1500-3000 MHz                | 1.6:1 Max
1.6:1 Max
2.5:1 Max                |
| Phase Balance                     | 30-100 MHz
100-1500 MHz
1500-3000 MHz                | 2° Max
7.5° Max
15° Max                |

Operating Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Absolute Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>50 Ohms Nominal</td>
</tr>
<tr>
<td>Input Power</td>
<td>5.0 Watt Max</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.207 ± 0.020 (30.6 ± 0.5)</td>
<td></td>
</tr>
<tr>
<td>0.592 ± 0.020 (15.03 ± 0.5)</td>
<td></td>
</tr>
</tbody>
</table>

* All specifications apply with 50 ohm source and load impedance. This product contains elements protected by United States Patent Number 3,508,171.

For further information and support please visit: https://www.macom.com/support
Typical Performance Curves

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-183-4 SMA</td>
<td>Connectorized</td>
</tr>
</tbody>
</table>

Functional Diagram
Microwave Hybrid Junction, 30 MHz - 3 GHz

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