Hybrid Junction,  
2 MHz - 2 GHz

Features
- 0° - 180° Hybrid with 10 Octave Bandwidth
- 30 dB Minimum Isolation
- Low VSWR
- Impedance: 50 Ohms Nom.
- Input Power: 2-20 MHz: 5 W. Max  
  20-2000 MHz: 25 W. Max
- MIL-STD_883 Screening Available

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

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>2-2000 MHz</th>
</tr>
</thead>
</table>
| Insertion Loss (less coupling) | 2-5 MHz: 1.7 dB Max  
  5-20 MHz: 1.7 dB Max  
  20-300 MHz: 0.7 dB Max  
  300-1000 MHz: 1.4 dB Max  
  1000-1500 MHz: 2.25 dB Max  
  1500-2000 MHz: 2.5 dB Max |
| Isolation | 2-20 MHz: 35 dB Min  
  20-300 MHz: 40 dB Min  
  300-1000 MHz: 30 dB Min  
  1000-2000 MHz: 30 dB Min |
| Amplitude Balance | 2-2000 MHz: 0.5 dB Max |
| VSWR | 2-5 MHz: 3.5:1 Max  
  5-20 MHz: 2.4:1 Max  
  20-300 MHz: 1.4:1 Max  
  300-1000 MHz: 1.7:1 Max  
  1000-2000 MHz: 1.7:1 Max |
| Phase Balance | 2-300 MHz: 2° Max  
  300-1000 MHz: 3° Max  
  1000-2000 MHz: 7° Max |

* All specifications apply with 50 Ohm source and load impedance. This product contains elements protected by United States Patent Number 3,325,587.
Typical Performance Curves

Insertion Loss

Isolation

VSWR

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-9 N</td>
<td>Connectorized</td>
</tr>
<tr>
<td>H-9 SMA</td>
<td>Connectorized</td>
</tr>
</tbody>
</table>

Functional Diagram
Hybrid Junction,
2 MHz - 2 GHz

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