Our patented 3 dB 90° Hybrid Couplers provide:

- Superior component performance starting at 3:1 Bandwidth.
- Thicker center boards for high power and increased repeatability.
- Bonded structures which eliminate any air gaps between substrates.
- More sections per bandwidth for better coupling flatness.
- Electrically shorter and physically smaller RF components.

Features:

<table>
<thead>
<tr>
<th>High Power</th>
<th>Wide Bandwidths</th>
<th>Small Size</th>
<th>Excellent Amplitude Balance</th>
</tr>
</thead>
</table>

Electrical Specifications:

- Frequency: 150 - 2000 MHz
- Power: 100 W CW
- Insertion Loss: 0.75 dB Max.
- VSWR: 1.40:1 Max.
- Phase Balance: 90° ± 5° dB Max.
- Amplitude Balance: ± 1.0 dB Max.
- Isolation: 17 dB Min.

Mechanical Specifications:

- Type: Surface Mount
- Weight: 0.4 oz.
- Size: 1.47 x 1.13 x 0.16''

Port Configurations:

<table>
<thead>
<tr>
<th>J1</th>
<th>J2</th>
<th>J3</th>
<th>J4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sum</td>
<td>-3 dB, 0°</td>
<td>-3 dB, -90°</td>
<td>Isolated</td>
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Werlatone’s breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.
Performance Data (Specifications subject to change without notice):

**Coupling:**

![Graph showing coupling performance](image)

**VSWR:**

![Graph showing VSWR performance](image)

**Isolation:**

![Graph showing isolation performance](image)

**Phase Balance:**

![Graph showing phase balance performance](image)