**Surface Mount Directional Coupler**

50Ω 5 to 900 MHz

**Maximum Ratings**
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

**Pin Connections**
- INPUT 1
- OUTPUT 6
- COUPLED 3
- GROUND 2, 5
- ISOLATE (DO NOT USE) 4

**Features**
- wideband, 5-900 MHz
- low mainline loss, 0.8 dB typ.
- excellent coupling flatness, ±0.2 typ.
- aqueous washable
- protected by U.S. Patents 6,133,525 & 6,140,887

**Applications**
- communications
- cable tv

**Typical Performance Data**

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>MAINLINE LOSS (dB)</th>
<th>COUPLING &amp; DIRECTIVITY (dB)</th>
<th>RETURN LOSS (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-900</td>
<td>0.05±0.5</td>
<td>0.7±1.2</td>
<td>0.8±1.2</td>
</tr>
<tr>
<td></td>
<td>1.2±1.5</td>
<td>0.9±1.5</td>
<td>1.5±1.5</td>
</tr>
<tr>
<td>10-50 MHz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50-450 MHz</td>
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<td></td>
<td></td>
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<tr>
<td>450-900 MHz</td>
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</tr>
</tbody>
</table>

Directivity at RF level of -10 dBm

**Overview**

- **50Ω 5 to 900 MHz**
- **Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.**
- **Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.**
- **The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, “Standard Terms”); Purchasers of this part are entitled to the rights and benefits contained therein.**

**Notes**

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