Surface Mount
Directional Coupler

50Ω  5 to 200 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 (DO NOT USE)  2.5
ISOLATE (DO NOT USE)  4

Features
• wideband, 5 to 200 MHz
• low mainline loss, 1.7 dB typ.
• excellent coupling flatness, ±0.1 typ.
• aqueous washable
• protected by U.S. Patents 6,133,525 & 6,140,887

Applications
• communications
• cable tv

Directional Coupler Electrical Specifications

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Coupling (dB)</th>
<th>Mainline Loss1 (dB)</th>
<th>Directivity (dB)</th>
<th>VSWR (:1)</th>
<th>Power Input, W</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-200</td>
<td>6.2±0.3</td>
<td>±0.3</td>
<td>1.6 2.0 1.7 2.0 1.7 2.1</td>
<td>35 22 25 18 17 13</td>
<td>1.33 0.5 0.5</td>
</tr>
</tbody>
</table>

L= 5-50 MHz  M= 50-100 MHz  U= 100-200 MHz

1. Mainline loss includes theoretical power loss at coupled port.

Notes:
A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.
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