**Surface Mount Directional Coupler**

**ADC-20-4+**

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**50Ω 5 to 1000 MHz**

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### 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.

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### Pin Connections

- **INPUT**: 1
- **OUTPUT**: 6
- **COUPLED**: 3
- **GROUND**: 2
- **50Ω TERM EXTERNAL**: 4
- **ISOLATE (DO NOT USE)**: 5

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### Features

- widesband, 5-1000 MHz
- low mainline loss, 0.5 dB typ.
- high directivity, 21 dB typ.
- aqueous washable
- protected by U.S. Patents 6,133,525 & 6,140,887

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### Applications

- cable TV
- communications

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### Typical Performance Data

- **Frequency (MHz)**
- **Mainline Loss (dB)**
- **Coupling (dB)**
- **Directivity (dB)**
- **VSWR (-1)**
- **Power Input, W**

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### Outline Dimensions (inch)

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<th>ABCDEFG</th>
<th>HJKL</th>
<th>wt grams</th>
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<tr>
<td></td>
<td>.272</td>
<td>.300</td>
<td>.030</td>
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<td>.210</td>
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<td>6.91</td>
<td>7.87</td>
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<td>2.54</td>
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### Notes

- 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-Circuit’s standard limited warranty and terms and conditions (collectively, “Standard Terms”); Purchasers of this part are entitled to the rights and remedies contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit’s website at www.minicircuits.com/MCLStore/terms.jsp

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### Electrical Schematic

- **ADC-20-4+ MAINLINE LOSS**
- **ADC-20-4+ RETURN LOSS**
- **ADC-20-4+ COUPLING & DIRECTIVITY**

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### Surface Mount Directional Coupler Electrical Specifications

- **Nom.**
- **Flatness**
- **Typ.**
- **Max.**

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### Available Tape and Reel

- at no extra cost

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### Mini-Circuits®

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