**Surface Mount**

**Power Splitter/Combiner**

**ADP-2-20**

2 Way-0°  50Ω  20 to 2000 MHz

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**Maximum Ratings**

- **Operating Temperature:** -40°C to 85°C
- **Storage Temperature:** -55°C to 100°C
- **Power Input (as a splitter):** 1W max.
- **Internal Dissipation:** 0.125W max.

**Pin Connections**

- **SUM PORT 1**
- **PORT 1 3**
- **PORT 2 4**
- **GROUND 6**
- **NOT USED 2, 5**

**Outline Drawing**

**Outline Dimensions (inch/mm)**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tbody>
<tr>
<td>.272</td>
<td>.310</td>
<td>.220</td>
<td>.100</td>
<td>.112</td>
<td>.065</td>
<td>.100</td>
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<tr>
<td>6.91</td>
<td>7.87</td>
<td>5.59</td>
<td>2.54</td>
<td>2.84</td>
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<table>
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<tr>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
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<tr>
<td>.030</td>
<td>.026</td>
<td>.065</td>
<td>.300</td>
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<tr>
<td>0.76</td>
<td>0.66</td>
<td>1.65</td>
<td>7.62</td>
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<tr>
<td>0.20</td>
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**Demo Board MCL P/N: TB-48+**

**Suggested PCB Layout (PL-035)**

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**Features**

- low insertion loss, 0.7 dB typ.
- excellent insertion loss flatness, 0.4 dB peak to peak
- excellent amplitude unbalance, 0.1 dB typ.
- good phase unbalance, 1.1 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

**Applications**

- instrumentation
- PCS/cellular
- GPS

**Electrical Specifications**

<table>
<thead>
<tr>
<th>FREQ. RANGE (MHz)</th>
<th>ISOLATION (dB)</th>
<th>INSERTION LOSS (dB) ABOVE 3.0 dB</th>
<th>PHASE UNBALANCE (Degrees)</th>
<th>AMPLITUDE UNBALANCE (dB)</th>
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</thead>
<tbody>
<tr>
<td>L, M</td>
<td>L, M</td>
<td>L, M</td>
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<tr>
<td>20-2000</td>
<td>18</td>
<td>15</td>
<td>18</td>
<td>15</td>
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<tr>
<td>0.5</td>
<td>0.8</td>
<td>0.7</td>
<td>1.0</td>
<td>0.8</td>
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<td></td>
<td>5.0</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

**Notes**

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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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**ADP-2-20+ TOTAL LOSS**

**ADP-2-20+ VSWR**

**electrical schematic**

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