Surface Mount
Power Splitter/Combiner

ADP-2-4+
ADP-2-4

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

Externally connect together & isolate 2.5

Features
- low insertion loss, 0.4 dB typ.
- excellent amplitude unbalance, 0.10 dB typ.
- very good phase unbalance, 0.5 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications
- instrumentation
- cellular

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>
</tr>
</thead>
<tbody>
<tr>
<td>10-1000</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>20</td>
<td>23</td>
<td>19</td>
<td>14</td>
<td>0.3</td>
</tr>
<tr>
<td>3.0</td>
<td>1.1</td>
<td>0.5</td>
<td>0.9</td>
<td>0.8</td>
</tr>
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</tr>
</tbody>
</table>

L = 10-100 MHz M = 100-500 MHz U = 500-1000 MHz

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.
- Notes: 1. Trace width is shown for Rogers RO4350B with dielectric thickness 0.062 x 0.088 COPPER: 1/2 OZ. each side. For other materials trace width may need to be modified. 2. Bottom side of the PCB is continuous ground plane. 3. Contains PCB copper layout with SWMC (Solder Mask Over Bare Copper) and +RoHS Compliant.

Demo Board MCL P/N: TB-208
Suggested PCB Layout (PL-116)

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