Surface Mount
Power Splitter/Combiner

2 Way-90°  50Ω  135 to 195 MHz

Maximum Ratings
Operating Temperature  -40°C to 85°C
Storage Temperature  -55°C to 100°C
Power Input (as a splitter)  1W max.
Permanent damage may occur if any of these limits are exceeded.

Pin Connections
SUM PORT  2
PORT 1 (+90°)  5
PORT 2 (0°)  1
GROUND  3, 4, 7, 8
50 OHM TERM EXTERNAL  6

Features
• low insertion loss, 0.3 dB typ.
• good isolation, 22 dB typ.

Applications
• VHF
• modulators
• signal processing
• image rejection mixer

Outline Drawing

PCB Lead Pattern

Suggested Layout, Tolerance to be within ±0.02

Outline Dimensions (inch)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>38</td>
<td>20</td>
<td>0</td>
<td>050</td>
<td>020</td>
<td>200</td>
</tr>
<tr>
<td>H</td>
<td>J</td>
<td>K</td>
<td>M</td>
<td>N</td>
<td>P</td>
<td>Wt</td>
</tr>
<tr>
<td>0.075</td>
<td>0.005</td>
<td>0.050</td>
<td>0.020</td>
<td>0.047</td>
<td>0.010</td>
<td>0.150 grams</td>
</tr>
</tbody>
</table>

| AC 481 |
| 1.91 | 15.24 | 11.43 | 11.94 | 2.54 | 3.81 | 1.6 |

Demo Board MCL P/N: TB-51
Suggested PCB Layout (PL-062)

Electrical Specifications

<table>
<thead>
<tr>
<th>FREQ. RANGE (MHz)</th>
<th>ISOLATION (dB)</th>
<th>INSERTION LOSS (dB)</th>
<th>PHASE UNBALANCE (Degrees)</th>
<th>AMPLITUDE UNBALANCE (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>135-195</td>
<td>22 18</td>
<td>0.3 0.7</td>
<td>Max.</td>
<td>Max.</td>
</tr>
</tbody>
</table>

INSERTION LOSS

RETURN LOSS, ISOLATION

electrical schematic