Minicircuits
Miniature Surface Mount
Fixed Attenuator
LAT-3+

50Ω 0.5W 3dB DC to 2500 MHz

Maximum Ratings
Operating Temperature -55°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  OUTPUT  GROUND
4       2        1,3

Outline Drawing

Outline Dimensions (inch) mm

Features
• wideband, DC to 2500 MHz
• excellent VSWR, through entire band
• miniature size, SOT143 package
• aqueous washable

Applications
• cellular
• PCS
• ISM
• VHF/UHF

Electrical Specifications at 25°C

<table>
<thead>
<tr>
<th>FREQ. RANGE (MHz)</th>
<th>ATTENUATION (db)</th>
<th>VSWR (1)</th>
<th>MAX. INPUT POWER (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nom. DC-0.5 GHz</td>
<td>DC-1 GHz</td>
<td>DC-2.5 GHz</td>
</tr>
<tr>
<td>DC-2500</td>
<td>3x0.3</td>
<td>0.3</td>
<td>0.4</td>
</tr>
</tbody>
</table>

1. RF power at 25°C case temperature: ½Watt. Derate linearly to 0.2 Watt at 85°C.
2. Flatness= variation over band divided by 2

Typical Performance Data

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>ATTENUATION (db)</th>
<th>VSWR (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>2.88</td>
<td>1.05</td>
</tr>
<tr>
<td>10.00</td>
<td>2.89</td>
<td>1.05</td>
</tr>
<tr>
<td>50.00</td>
<td>2.89</td>
<td>1.05</td>
</tr>
<tr>
<td>100.00</td>
<td>2.90</td>
<td>1.05</td>
</tr>
<tr>
<td>500.00</td>
<td>2.92</td>
<td>1.06</td>
</tr>
<tr>
<td>1000.00</td>
<td>2.95</td>
<td>1.07</td>
</tr>
<tr>
<td>1600.00</td>
<td>2.96</td>
<td>1.12</td>
</tr>
<tr>
<td>2000.00</td>
<td>3.04</td>
<td>1.16</td>
</tr>
<tr>
<td>2250.00</td>
<td>3.04</td>
<td>1.18</td>
</tr>
<tr>
<td>2500.00</td>
<td>3.11</td>
<td>1.20</td>
</tr>
</tbody>
</table>

Permanent damage may occur if any of these limits are exceeded.

CASE STYLE: MMM168
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications
Available Tape and Reel at no extra cost

Demo Board MCL P/N: TB-39
Suggested PCB Layout (PL-225)

NOTES:
1. Trace width is shown for Rogers materials with dielectric thickness of 0.005". Copper 7 oz. each side. For other materials trace width may need to be modified.
2. Bottom side of the PCB is continuous grounding plane.
3. Denotes PCB Copper Layout Pattern Free of solder mask.