Coaxial Frequency Mixer

Level 10 (LO Power +10 dBm) 1600 to 6000 MHz

Maximum Ratings
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 100°C
- RF Power: 50mW
- IF Current: 40mA

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

Coaxial Connections
- LO: 1
- RF: 2
- IF: 3

Features
- rugged construction
- small size
- low conversion loss
- high L-R isolation
- protected by US Patents 6,790,049 & 7,027,795

Applications
- cellular
- PCS
- instrumentation
- satellite communication

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications (TAMB=25°C)

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>CONVERSION LOSS (dB)</th>
<th>LO-RF ISOLATION (dB)</th>
<th>LO-IF ISOLATION (dB)</th>
<th>IP3 at center band (dBm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LO/RF IF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LO/RF 1</td>
<td>LO/RF 2</td>
<td>LO/RF 3</td>
<td>LO/RF 4</td>
<td>LO/RF 5</td>
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<tr>
<td>1600-6000 DC-2000</td>
<td>6.3 0.1 8.5</td>
<td>35 23</td>
<td>17 —</td>
<td>13</td>
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<tr>
<td>1600-4400 DC-2000</td>
<td>6.0 0.1 8.3</td>
<td>27 20</td>
<td>21 —</td>
<td>11</td>
</tr>
</tbody>
</table>

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

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>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>wt</th>
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</thead>
<tbody>
<tr>
<td>.74</td>
<td>.90</td>
<td>.54</td>
<td>.50</td>
<td>.04</td>
<td>.16</td>
<td>.29</td>
<td>.74</td>
<td>.37</td>
<td>.122</td>
<td>.496</td>
<td>.106</td>
<td>.122</td>
<td>.37</td>
</tr>
<tr>
<td>18.80</td>
<td>22.86</td>
<td>13.72</td>
<td>12.70</td>
<td>1.02</td>
<td>4.06</td>
<td>7.37</td>
<td>18.80</td>
<td>22.86</td>
<td>13.72</td>
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<td>4.06</td>
<td>7.37</td>
</tr>
</tbody>
</table>

Electrical Schematic

Notes
A. 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.
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.
C. 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 benefits 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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