**GPS (L1, L2 band) Diplexer – 6 Pole**

**Features/Benefits**
- High Q ceramic
- Surface mount
- Low cost
- RoHS-compliant version available

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Center Frequency (Fo)</strong></td>
<td>L1 Channel: 1575.42 MHz</td>
</tr>
<tr>
<td></td>
<td>L2 Channel: 1227.6 MHz</td>
</tr>
<tr>
<td><strong>Insertion Loss</strong></td>
<td>&lt; 1.6 dBa over PB</td>
</tr>
<tr>
<td></td>
<td>&lt; 1.6 dBa over PB</td>
</tr>
<tr>
<td><strong>Passband (PB)</strong></td>
<td>1575.4 ± 12 MHz, min</td>
</tr>
<tr>
<td></td>
<td>1227.6 ± 12 MHz, min</td>
</tr>
<tr>
<td><strong>Return Loss</strong></td>
<td>14 dB over 100% of the PB</td>
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<tr>
<td></td>
<td>14 dB over 100% of the PB</td>
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<tr>
<td><strong>Group Delay</strong></td>
<td>6 ns Max variation over PB</td>
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<td></td>
<td>6 ns Max variation over PB</td>
</tr>
<tr>
<td><strong>Rejection</strong></td>
<td>-15 dBc min @ Fo ± 50 MHz</td>
</tr>
<tr>
<td></td>
<td>-19 dBc min @ Fo ± 60 MHz</td>
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<td></td>
<td>-24 dBc min @ Fo ± 70 MHz</td>
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<tr>
<td></td>
<td>-40 dBc min @ Fo ± 135 MHz</td>
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<tr>
<td></td>
<td>-52 dBc min @ 960 MHz, 2000 MHz</td>
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<tr>
<td></td>
<td>-32 dBc min @ 1315 MHz, Fo ± 100 MHz</td>
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<tr>
<td></td>
<td>-15 dBc min @ 1625.42 MHz</td>
</tr>
<tr>
<td></td>
<td>-40 dBc min @ 2000 – 2500 MHz</td>
</tr>
<tr>
<td><strong>Package Outline</strong></td>
<td>IMC Document Number 622411</td>
</tr>
<tr>
<td><strong>Temperature, Operating</strong></td>
<td>-40 C to +85 C</td>
</tr>
<tr>
<td><strong>Temperature, Storage</strong></td>
<td>-55 C to +125 C</td>
</tr>
<tr>
<td><strong>Temperature, Soldering</strong></td>
<td>+215 C MAX (use convective reflow)</td>
</tr>
<tr>
<td><strong>Mechanical Dimensions</strong></td>
<td>1.530 x 0.600 x 0.290 inches [38.86 x 15.24 x 7.37 mm]</td>
</tr>
</tbody>
</table>

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IMC P/N: 938667

**Data Sheet**

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