CHIP MULTILAYER ANTENNA FOR GPS/2.4 GHz ISM Band

Product P/N: ANT016008LCD1575MA1

[MECHANICAL DIMENSIONS]

[UNIT: mm]

A: Feed point
B1: Radiator electrode for GPS
B2: Radiator electrode for 2.4GHz ISM
Tolerance: +/-0.1 mm

[ELECTRICAL CHARACTERISTICS]

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>UNIT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency (F&lt;sub&gt;GPS&lt;/sub&gt;, F&lt;sub&gt;Bt&lt;/sub&gt;)</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>F&lt;sub&gt;GPS&lt;/sub&gt; 1575,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F&lt;sub&gt;Bt&lt;/sub&gt; 2442</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Band Width(BW) (F&lt;sub&gt;GPS&lt;/sub&gt;, F&lt;sub&gt;Bt&lt;/sub&gt;)</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>F&lt;sub&gt;GPS&lt;/sub&gt; +/-1,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F&lt;sub&gt;Bt&lt;/sub&gt; +/-42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VSWR at BW</td>
<td>4 (Max.)</td>
<td></td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear</td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm</td>
<td></td>
</tr>
<tr>
<td>PCB size</td>
<td>120 x 65 x 1.0</td>
<td>mm</td>
</tr>
</tbody>
</table>

* This is typical antenna performance with the standard PCB.

Operating temperature
-40 +85 °C

Storage temperature
-40 +85 °C

All specifications are subject to change without notice and are not guaranteed.
[RECOMMENDED PCB PATTERN]

Electrode
- Front side

GND

Mt : Matching tuning

Ft GPS : Frequency tuning for GPS

50 ohm feed line

Ft Bt : Frequency tuning for BT

- Back side

GND

Solder Resist

For 0603 size

For 1005 size

For Chip antenna

Recommend aperture size of metal mask for solder printing

Aperture of metal mask

[Unit: mm]

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[EFFICIENCY AND VSWR]

Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm

[RECEIVER PATTERN]

Measurement Method

Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm

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[RADIATION PATTERN - GPS band -]

RHCP

1.575

[Unit: GHz]

Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm.
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ENVIRONMENT INFORMATION

1. RoHS STATEMENT

ROHS Compliance

2. Non-Use of Halogen (Bromine and Chlorine)

The product does not include Halogens and their compounds based on the following definition.

- Bromine (Br) ≤ 900ppm*
- Chlorine (Cl) ≤ 900ppm*
- (Bromine (Br) + Chlorine (Cl)) ≤ 1500ppm*

(*Certain homogeneous materials)

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