PA1590MI3G-100-27M

Engineering Specification

1. Typical Electrical Properties

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>S11(dB)</th>
<th>Peak Gain (dBiC)</th>
<th>R.H.C.P. Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1575.42</td>
<td>-23.07</td>
<td>3.39</td>
<td>54.02</td>
</tr>
<tr>
<td>1602</td>
<td>-27.15</td>
<td>4.51</td>
<td>59.67</td>
</tr>
</tbody>
</table>

Note: (1) Patch Antenna is Located on Garmin 100x100 mm Ground
PA1590MI3G-100-27M, G: Green parts (RoHS compliance)
-100 are the code of project number, -27M show of appendix

2. Patch Antenna Performance and Characteristic Data on 70x70 mm Ground

2.1 Smith Chart/Return Loss
2.2 Gain Pattern (Unit : dBic)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>1575.42 MHz</th>
<th>1598 MHz</th>
<th>1602 MHz</th>
<th>1606 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azimuth</td>
<td>110.0</td>
<td>110.0</td>
<td>110.0</td>
<td>110.0</td>
</tr>
<tr>
<td>Elevation</td>
<td>-40.0</td>
<td>-40.0</td>
<td>-40.0</td>
<td>-40.0</td>
</tr>
<tr>
<td>Roll</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
<td>60.0</td>
</tr>
<tr>
<td>Gain (dBic)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UNLESS OTHER SPECIFIED TOLERANCES ON:

\[ X = \pm \quad X = \pm \quad X = \pm \]

ANGLES = \pm \quad HOLEDIA = \pm

SCALE : UNIT : mm

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TITUE : PA1590MI3G-100-27M
Engineering Specification

DOCUMENT NO. : ENS000066040

SEPC REV. : P0
2.3 Antenna Direction

3. Dimension:

Patch bottom electrode

Patch top electrode

Unit: mm
4. Explanation of Appendix

PA1590MI3G-100-27M

(1) Pin Length = 2 mm
(2) Adhesive Tape 7 22×22mm

Adhesive Transfer Tape Specification
2.1 TAPE: Nitto 5000NS 22x22x0.16mm
2.2 Thickness: 0.16 mm
2.3 Release Liner: 0.1mm (typ.) printed paper or paper
2.4 Dimension: mm

(3) Option appendix M Marking

Marking configuration
3.1 Logo for INPAQ Logo
3.2 Type G for green product antenna
3.3 Three digits are the code of our project number

UNLESS OTHER SPECIFIED TOLERANCES ON:

<table>
<thead>
<tr>
<th>X=±</th>
<th>X.X=±</th>
<th>X.XX=±</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SCALE: UNIT: mm

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