

Description: 5320 GPS Chip Antenna

PART NUMBER: ANT5320LL14R1575A

Features:

- Size : 5.3x2.0x1.2 mm
- High radiation efficiency
- Reflow process compatible
- RoHS compliant



Applications:

- Tablet
- Navigation device
- Telematics box
- Fleet management

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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ELECTRICAL SPECIFICATIONS

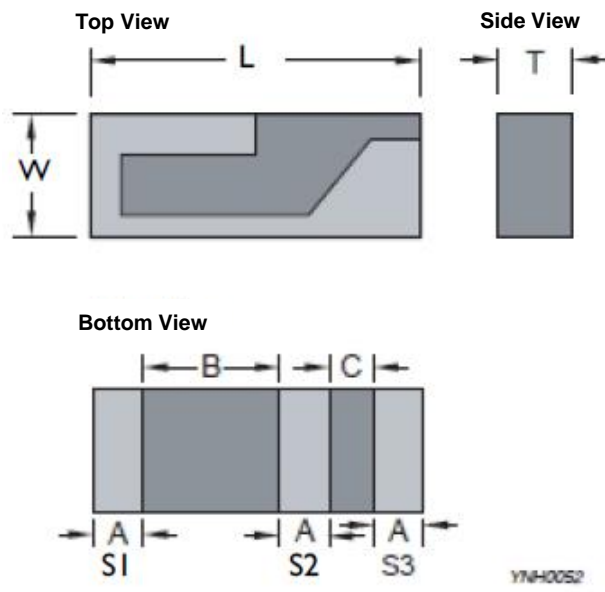
Centre Frequency	1.575 GHz
Bandwidth	160 MHz(Typ.)
Return Loss	10 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.16 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Peak reflow temperature	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	5.30 ±0.20
W (mm)	2.00 ±0.20
T (mm)	1.20 ±0.20
A (mm)	0.80 ±0.15
B (mm)	2.20 ±0.15
C (mm)	0.70 ±0.15



Terminal name	Function
S1	GND
S2	Feeding Point
S3	GND

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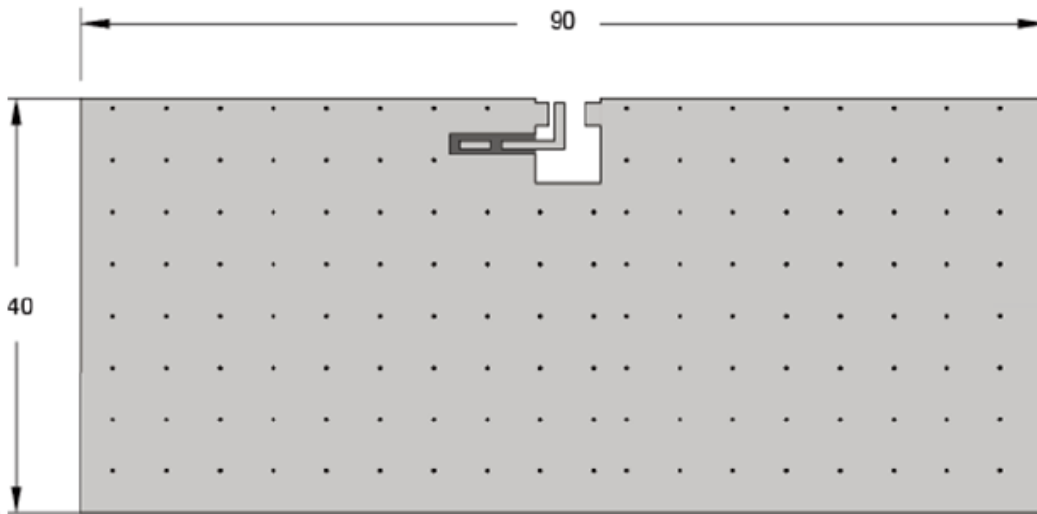
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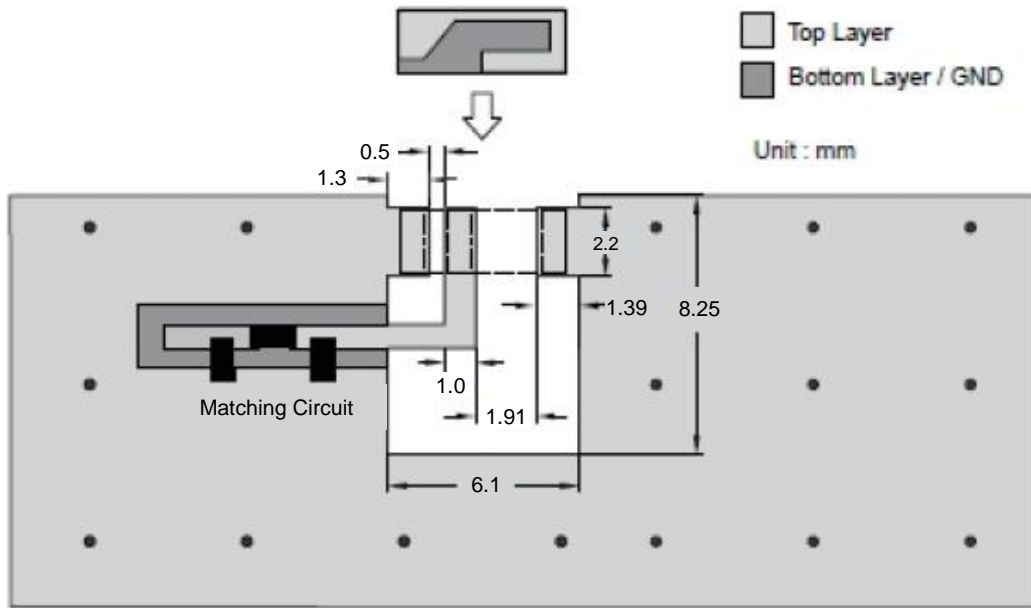
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REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Outlook and dimension of evaluation board



Unit : mm

Details of soldering Pad

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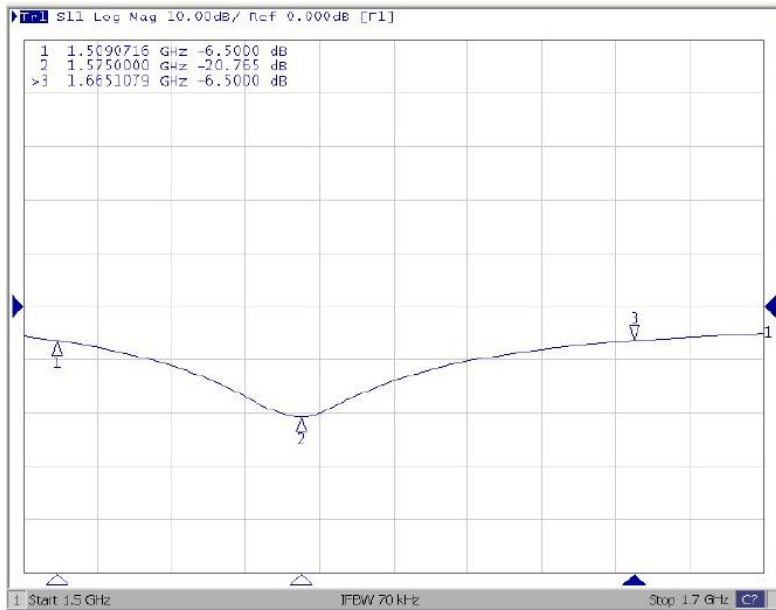
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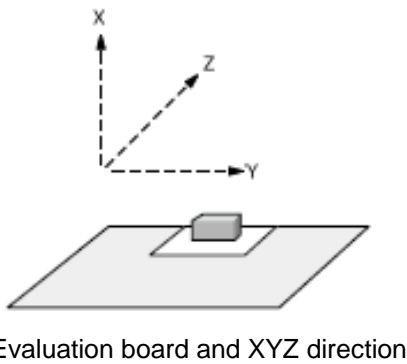
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ELECTRICAL PERFORMANCES

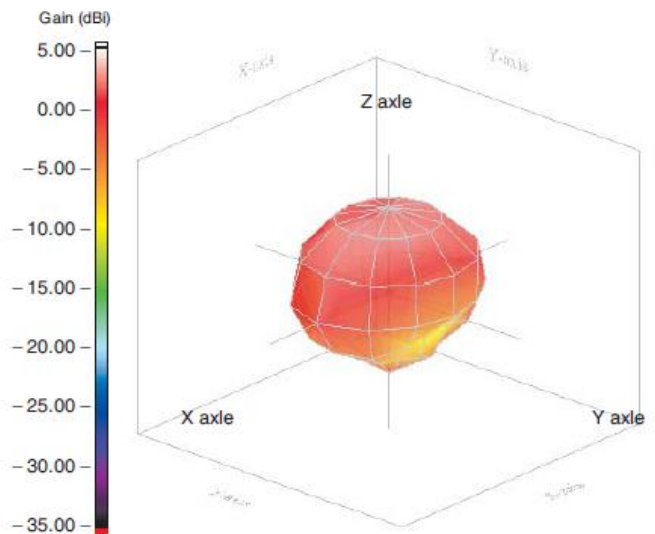


Marker data
 1. 1.509GHz, -6.5dB
 2. 1.575GHz, -20.765dB
 3. 1.665GHz, -6.5dB

Return loss



Evaluation board and XYZ direction



Frequency= 1.575 GHz
 Max gain = 2.15 dBi, at (30,30)
 MEG (mean effective gain)= -0.34dBi
 Directivity (dB) = 3.31
 Efficiency = -1.16 dB, 76.64%

YNH0051

Radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 1	Aug. 5, 2021	- New issue

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