

**Description:**

5320 GPS/GALILEO&GLONASS Chip Antenna

**PART NUMBER: ANT5320LL14R1516A**

**Features:**

- Size : 5.3x2.0x1.1 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**

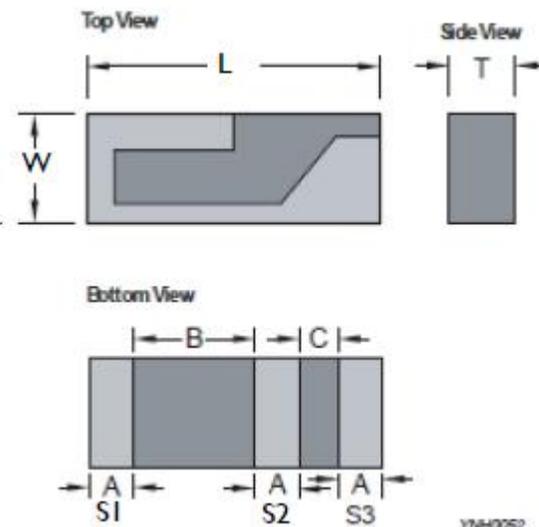
<b>Working Frequency</b>	1.575 G / 1.602GHz
<b>Bandwidth</b>	80 MHz(Typ.)
<b>Return Loss</b>	10 dB Min
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	GPS / Galileo: 1.45 dBi(Typ.) Glomass: 1.46 dBi(Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C
<b>Maximum Power</b>	1 W
<b>Termination</b>	Ag (Environmentally-Friendly Leadless)
<b>Resistance to Soldering Heats</b>	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

**MECHANICAL DRAWING**

	<b>Dimension</b>
L (mm)	5.30 ±0.20
W (mm)	2.00 ±0.20
T (mm)	1.10 ±0.20
A(mm)	0.80 ±0.15
B(mm)	2.20 ±0.15
C(mm)	0.70 ±0.15



<b>Terminal name</b>	<b>Function</b>
S1	GND
S2	Feeding Point
S3	GND

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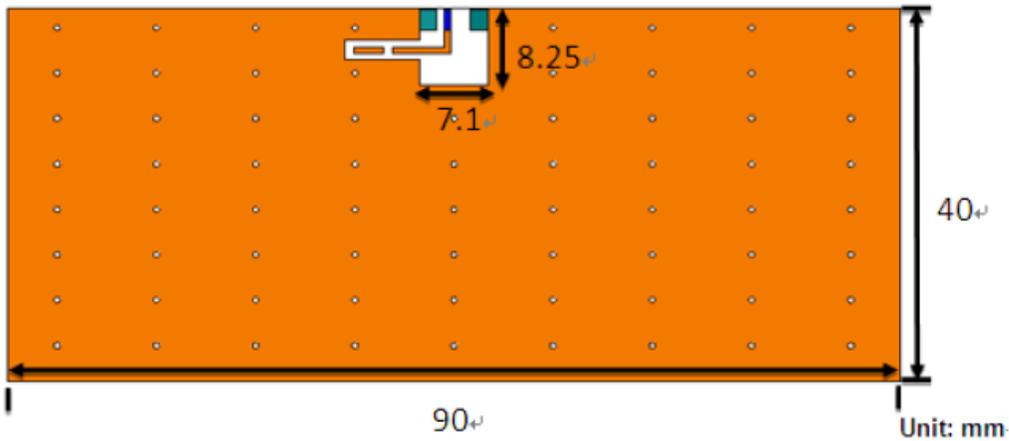
**Description:**

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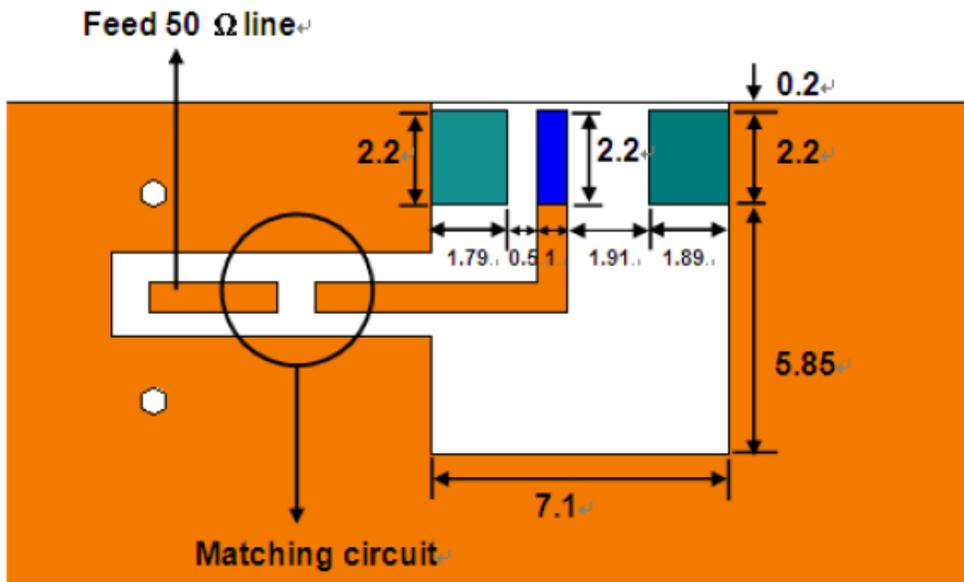
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**REFERENCE DESIGN OF EVALUATION BOARD**

(Size=8.25\*7.1mm)



Outlook and dimension of evaluation board



■ Soldering Pads of Chip Antenna    ■ Footprint for Feeding

Details of soldering Pad

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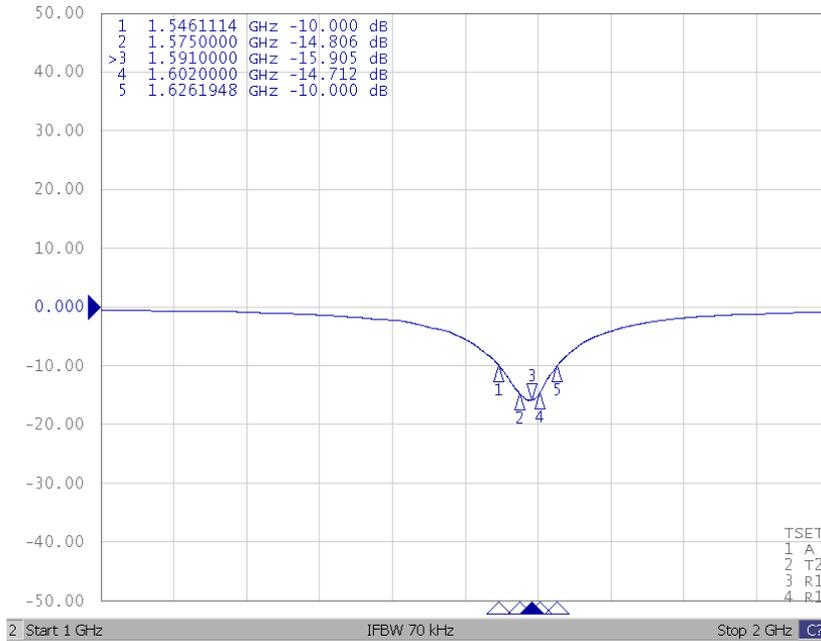
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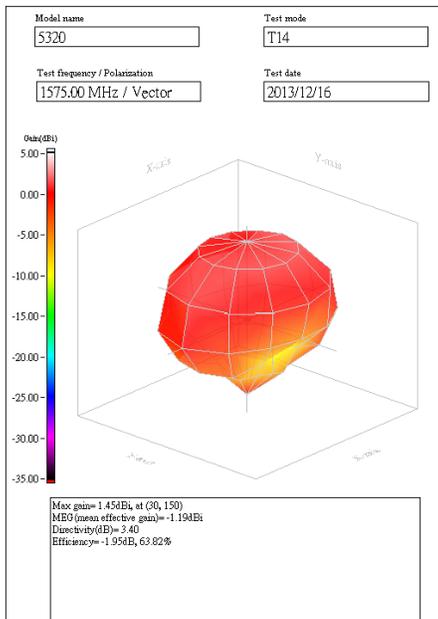
**ELECTRICAL PERFORMANCES**



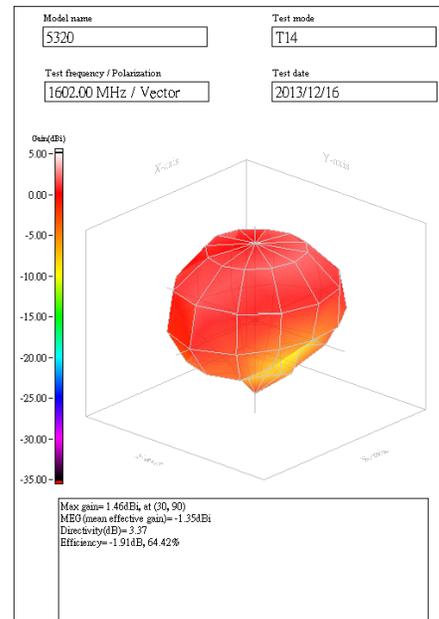
**Marker data**

- 1. 1.5461114GHz , -10.000dB
- 2. 1.5750000GHz , -14.806dB
- 3. 1.5910000GHz , -15.905dB
- 4. 1.6020000GHz , -14.712dB
- 5. 1.6261948GHz , -10.000dB

**Return loss**



Radiation pattern (Frequency = 1575 MHz)



(Frequency= 1602 MHz)

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**REVISION HISTORY**

Revision	Date	Description
Version 1	Oct. 30, 2020	- New issue

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