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

RoHS COMPLIANT

Pulse Worldwide Headquarters	Pulse/Larsen Antennas	Europe Headquarters	Pulse (Suzhou) Wireless Products Co, Inc.
15255 Innovation Drive #100	18110 SE 34th St Bldg 2 Suite 250	Pulse GmbH & Do, KG	99 Huo Ju Road(#29 Bldg,4th Phase
San Diego, CA 92128	Vancouver, WA 98683	Zeppelinstrasse 15	Suzhou New District
USA	USA	Herrenberg, Germany	Jiangsu Province, Suzhou 215009 PR China
Tel:1-858-674-8100	Tel: 1-360-944-7551	Tel: 49 7032 7806 0	Tel: 86 512 6807 9998

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ELECTRICAL SPECIFICATIONS

Working Frequency	1.575 G / 1.602GHz
Bandwidth	80 MHz(Typ.)
Return Loss	10 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	GPS / Galileo: 1.45 dBi(Typ.) Glonass: 1.46 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 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)	1.10 ±0.20
A(mm)	0.80 ±0.15
B(mm)	2.20 ±0.15
C(mm)	0.70 ±0.15
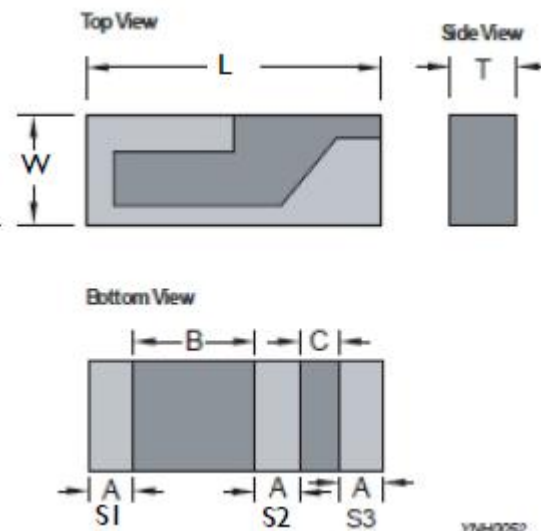
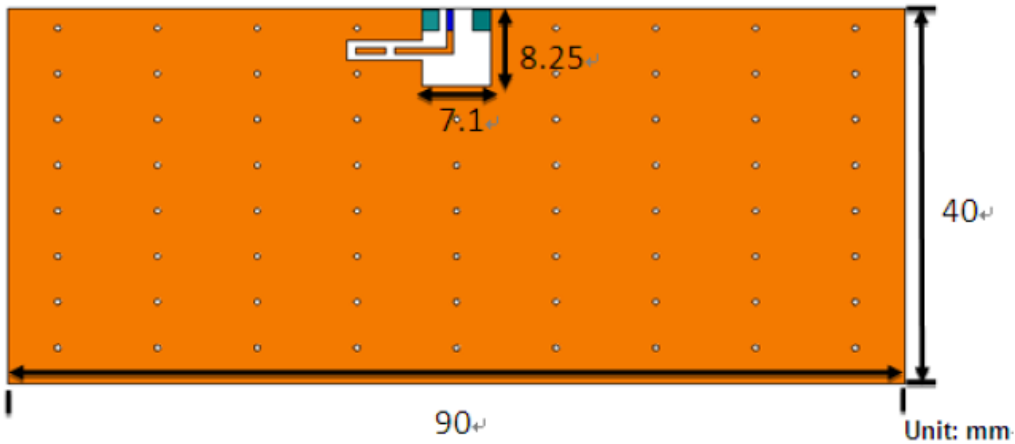| Terminal name	Function
S1	GND
S2	Feeding Point
S3	GND

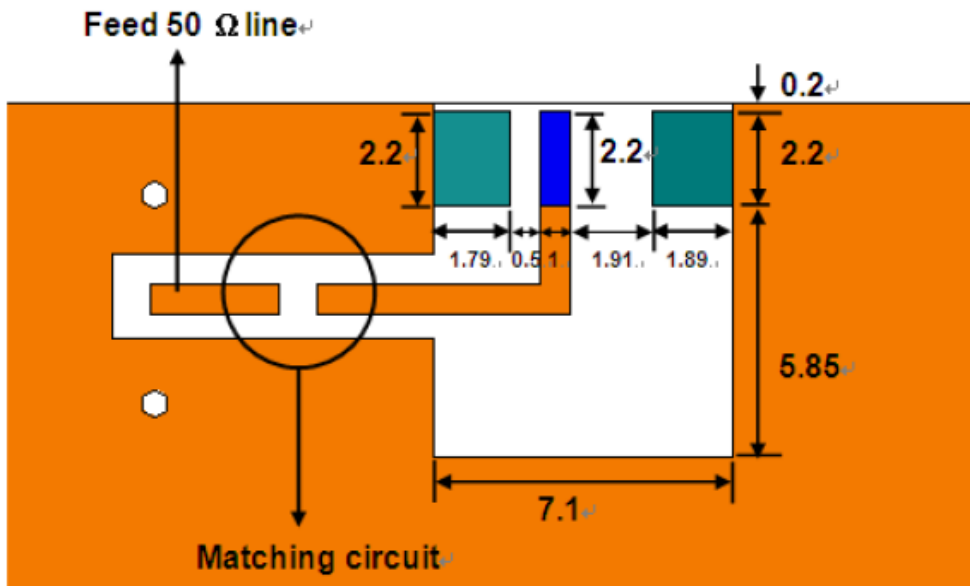**Description**:

5320 GPS/GALILEO&GLONASS Chip Antenna

PART NUMBER: ANT5320LL14R1516A

REFERENCE DESIGN OF EVALUATION BOARD

(Size=8.25*7.1mm)

Outlook and dimension of evaluation board

Details of soldering Pad

Description:

5320 GPS/GALILEO&GLONASS Chip Antenna

PART NUMBER: ANT5320LL14R1516A

ELECTRICAL PERFORMANCES

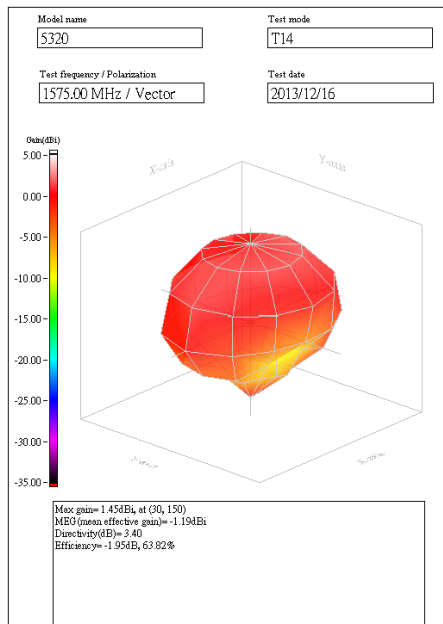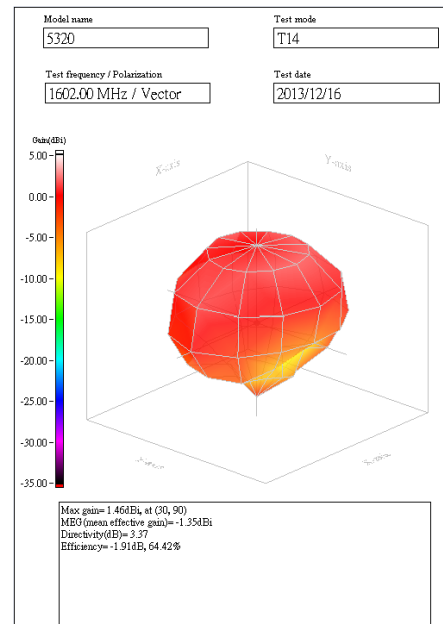|					
1	1.5461114	GHz	-10.000	dB
2	1.5750000	GHz	-14.806	dB
>3	1.5910000	GHz	-15.905	dB
4	1.6020000	GHz	-14.712	dB
5	1.6261948	GHz	-10.000	dB
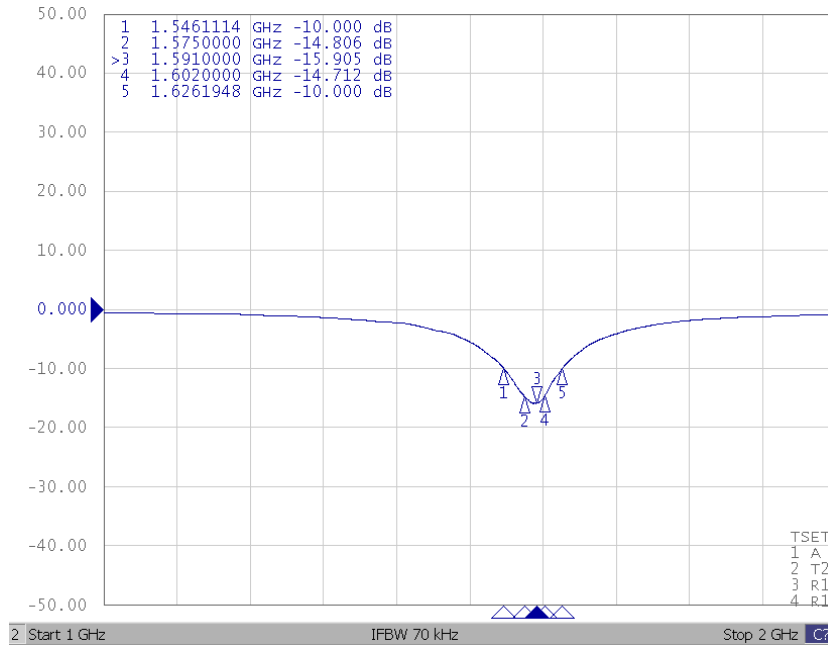
Marker data
1. 1.5461114GHz , -10.000dB
2. 1.5750000GHz , -14.806dB
3. 1.5910000GHz , -15.905dB
4. 1.6020000GHz , -14.712dB
5. 1.6261948GHz , -10.000dB

TSET1
1 A
2 T2
3 R1
4 R1

2 Start 1 GHz   IFBW 70 kHz   Stop 2 GHz C?

Return loss

Model name: 5320   Test mode: T14
Test frequency / Polarization: 1575.00 MHz / Vector
Test date: 2013/12/16

Gain(dBi)

Max gain= 1.45dBi, at (30, 150)
MEG (mean effective gain)= -1.19dBi
Directivity(dB)= 3.40
Efficiency= -1.95dB, 63.82%

Model name: 5320   Test mode: T14
Test frequency / Polarization: 1602.00 MHz / Vector
Test date: 2013/12/16

Gain(dBi)

Max gain= 1.46dBi, at (30, 90)
MEG (mean effective gain)= -1.35dBi
Directivity(dB)= 3.37
Efficiency= -1.91dB, 64.42%

Radiation pattern (Frequency = 1575 MHz)   (Frequency= 1602 MHz)

RoHS