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Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

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

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ELECTRICAL SPECIFICATIONS

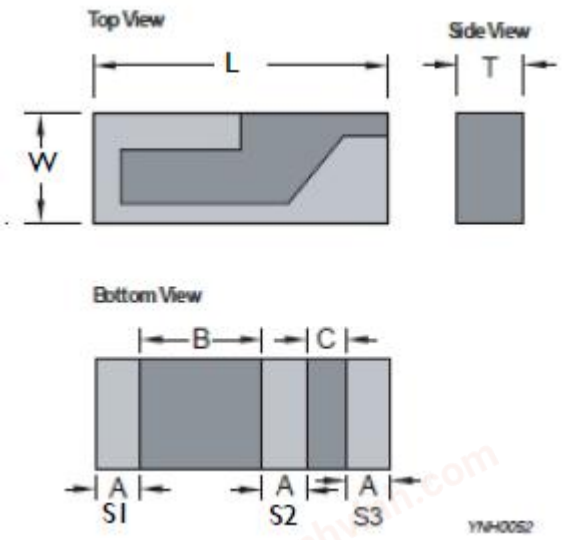
Working Frequency	1.575 G / 1.602GHz
Bandwidth	80 MHz(Typ.)
Return Loss	10 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	GPS / Galileo: 1.45 dBi(Typ.) Glonass: 1.46 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly 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

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RoHS COMPLIANT

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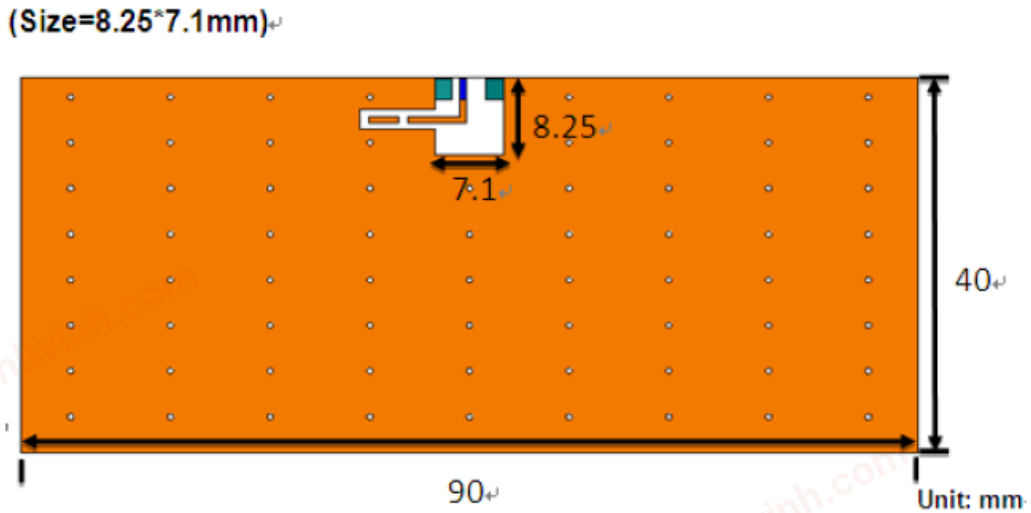
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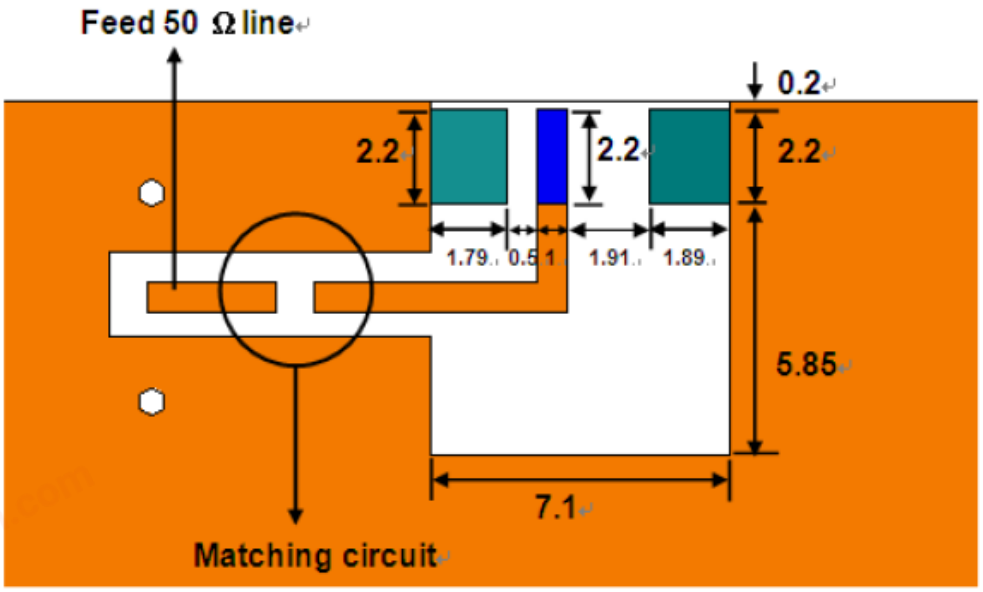
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Soldering Pads of Chip Antenna Footprint for Feeding

Details of soldering Pad

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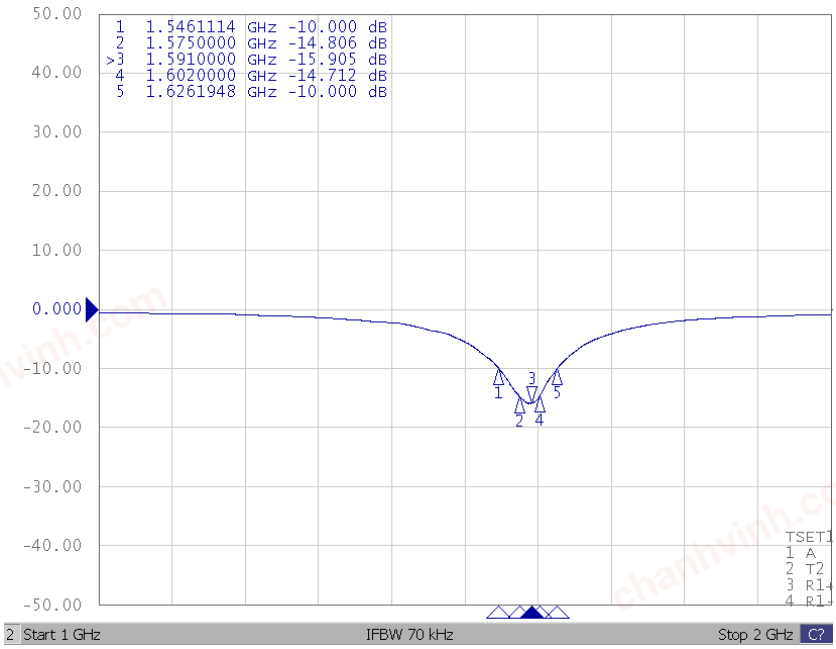
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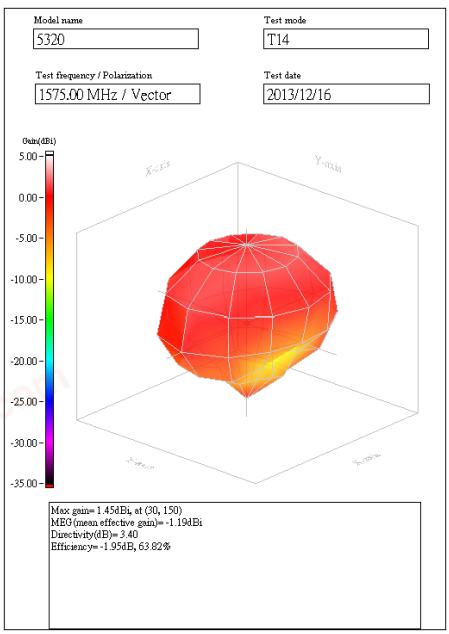
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ELECTRICAL PERFORMANCES

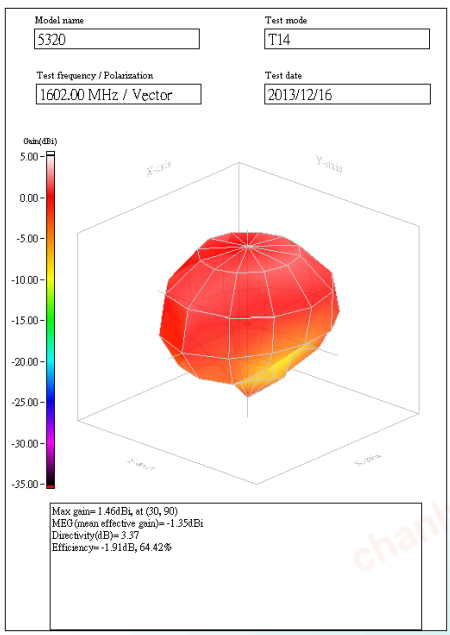


Marker data
1. 1.5461114GHz , -10.000dB
2. 1.5750000GHz , -14.806dB
3. 1.5910000GHz , -15.905dB
4. 1.6020000GHz , -14.712dB
5. 1.6261948GHz , -10.000dB

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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