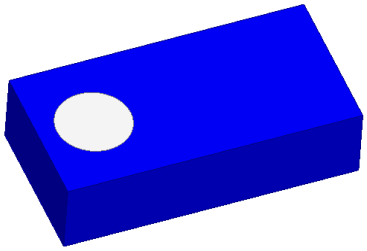
TECHNICAL DATA SHEET

Description: 1608 WiFi 6E Chip Antenna

PART NUMBER: ANT1608LL14R2460A



Features:

- Size : 1.6x0.8x0.4 mm
- Omni-directional Radiation
- Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- WiFi 6E device
- ISM band equipment

All dimensions are in mm / inches

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
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Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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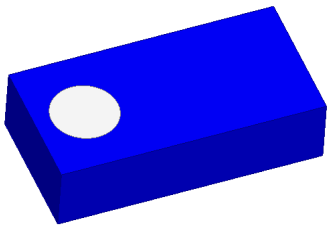
ELECTRICAL SPECIFICATIONS

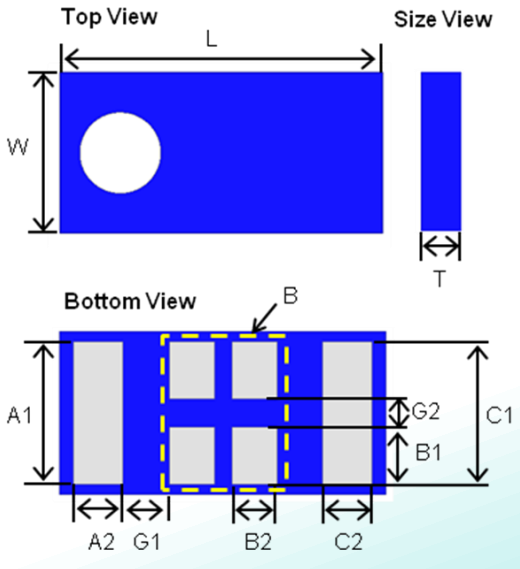
Working Frequency	2.4GHz / 5.15 ~ 7.125GHz
Bandwidth	84MHz / 2000MHz(Typ.)
Return Loss	7.0 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.65 / 3.69 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	1.60 ±0.15
W (mm)	0.80 ±0.15
T (mm)	0.40 ±0.15
A1(mm)	0.70 ±0.15
A2(mm)	0.25 ±0.15
B1(mm)	0.30 ±0.15
B2(mm)	0.25 ±0.15
C1(mm)	0.70 ±0.15
C2(mm)	0.25 ±0.15
G1(mm)	0.20 ±0.05
G2(mm)	0.10 ±0.05





Terminal name	Function
B	Feeding Point
A1,A2	Soldering Point for 2.4GHz
C1,C2	Soldering Point for 6GHz

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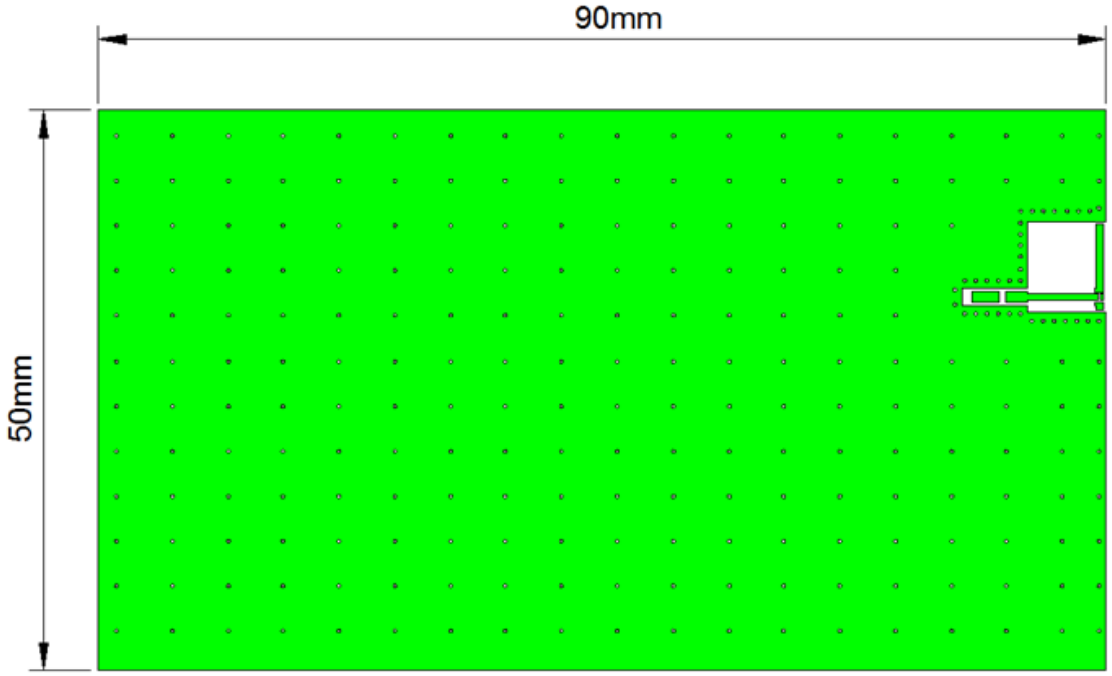
REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

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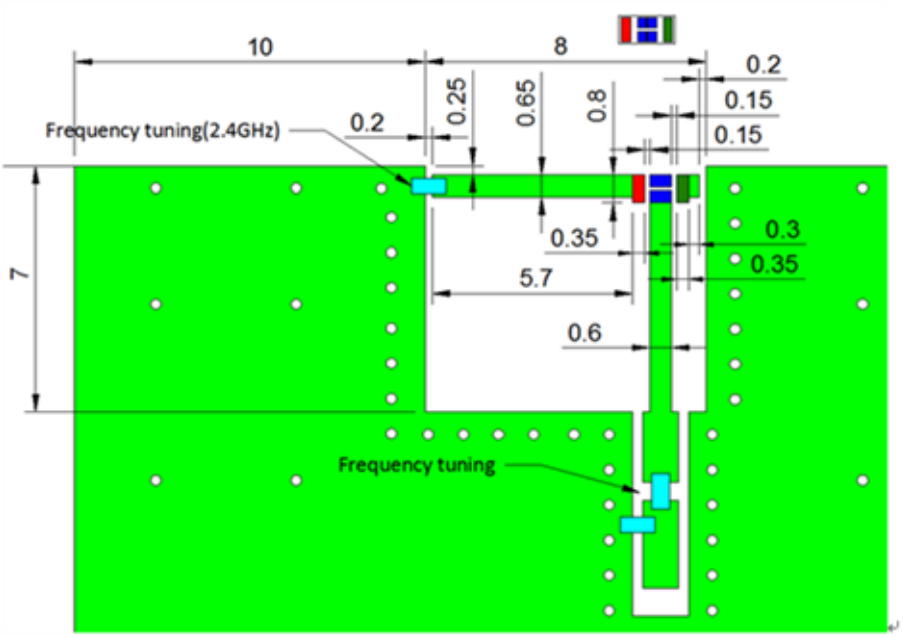
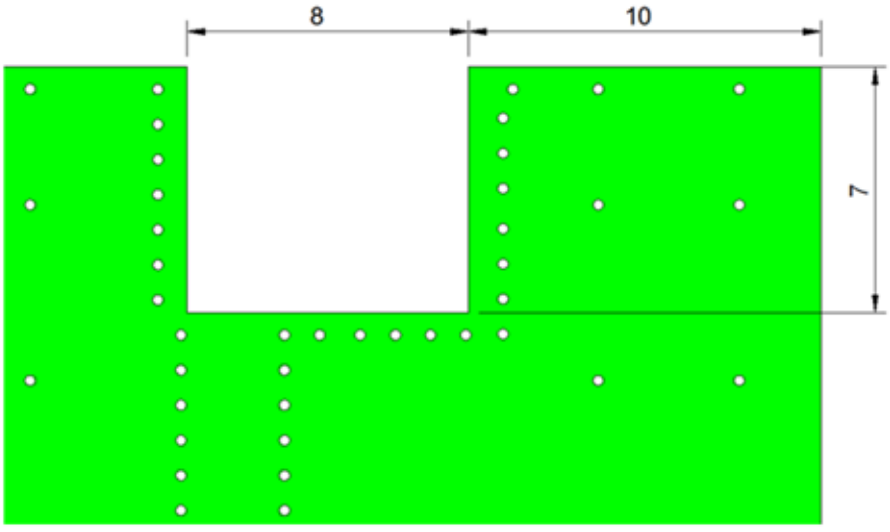


Top Layer



Bottom Layer Unit: mm

Details of soldering Pad

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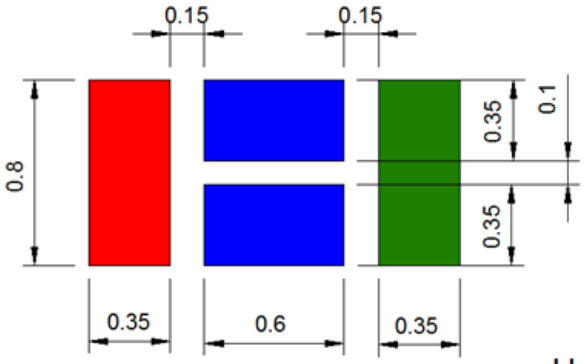
REFERENCE DESIGN OF EVALUATION BOARD

Footprint

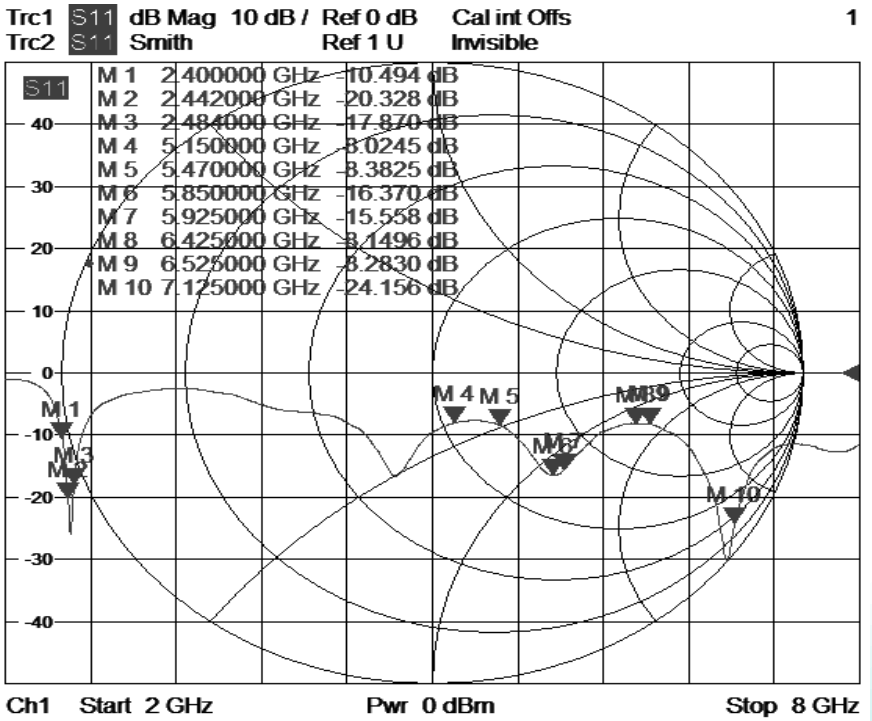


: Footprint for 2.4GHz

: Footprint for Feeding

: Footprint for 6GHz

Return loss



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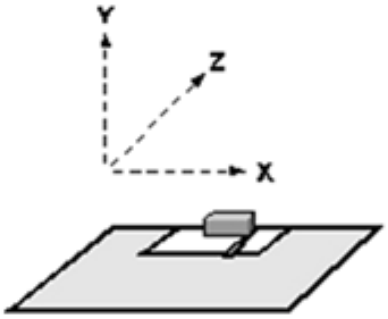
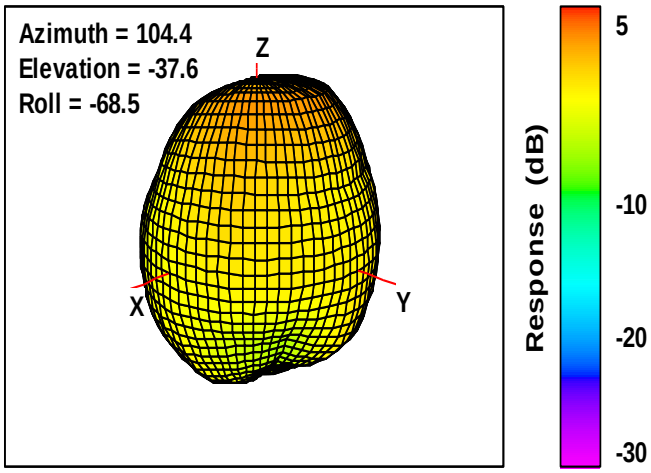
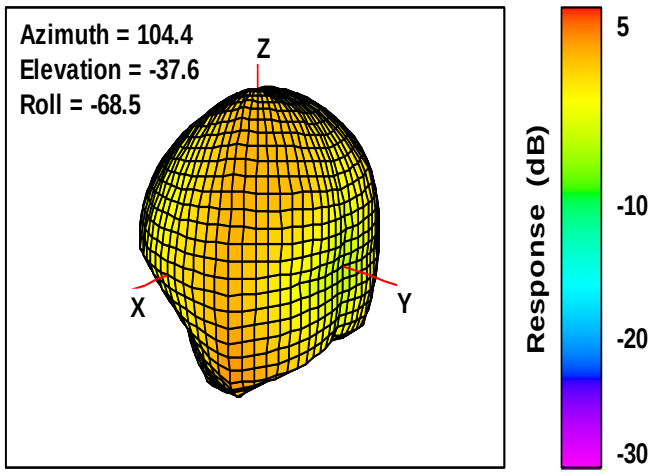
ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction



Frequency：2.442 GHz
Efficiency：71.2 %



Frequency：5.470 GHz
Efficiency：62.8 %

Radiation pattern

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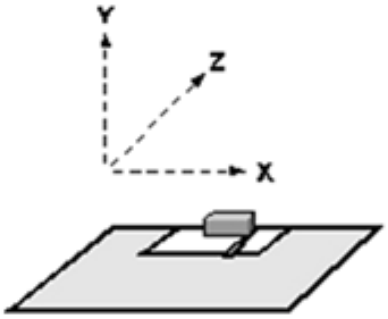
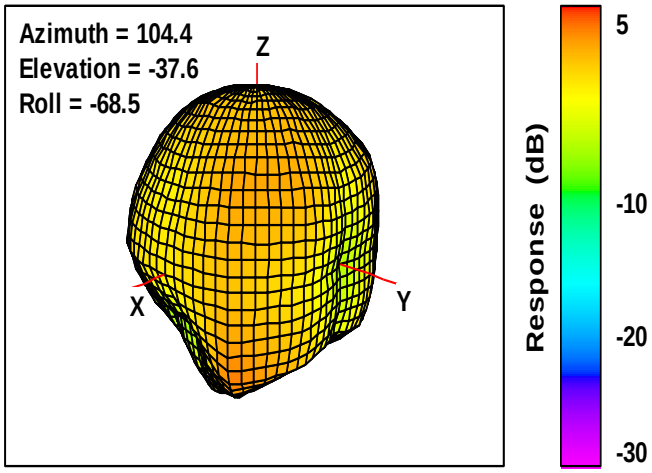
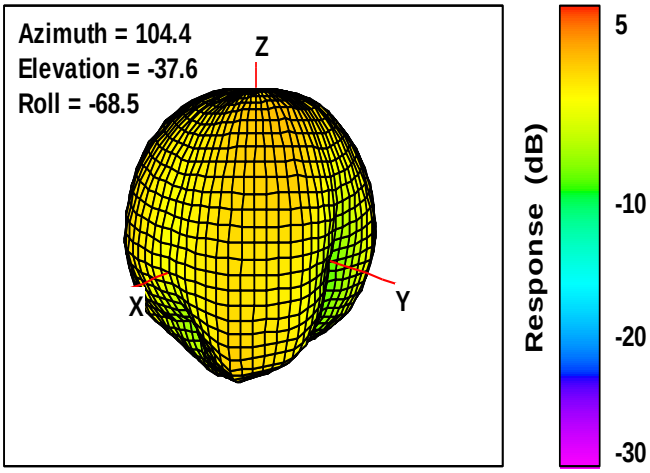


Evaluation board and XYZ direction



Frequency：5.850 GHz
Efficiency：76.2 %



Frequency：6.425 GHz
Efficiency：66.9 %

Radiation pattern

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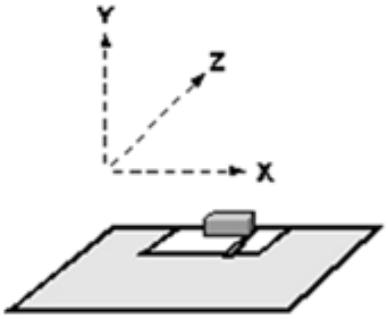
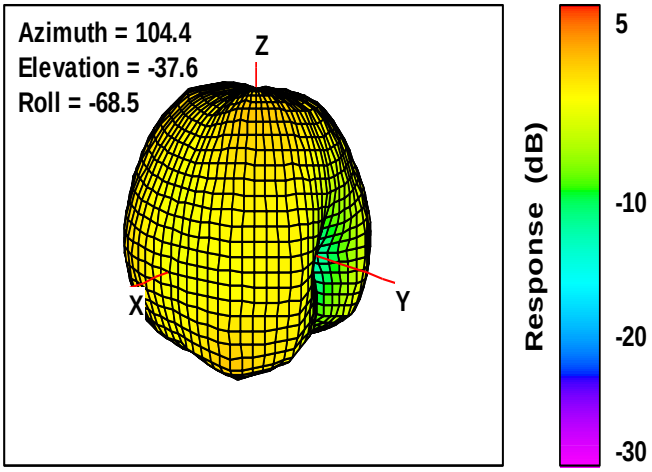
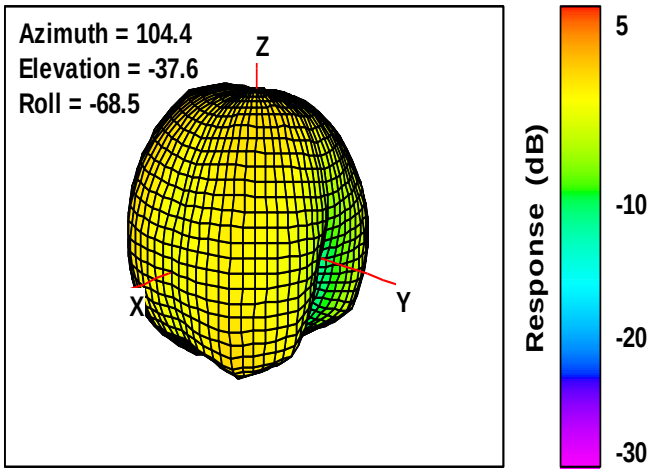


Evaluation board and XYZ direction



Frequency：6.875 GHz
Efficiency：63.8 %



Frequency：7.125 GHz
Efficiency：60.8 %

Radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 1	Apr. 28, 2021	- New issue

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

ANT1608LL14R2460A