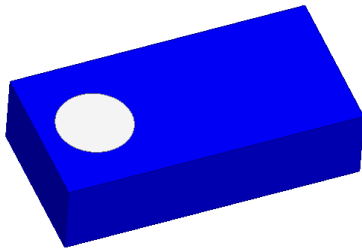


Description: 1608 WiFi 6E Chip Antenna

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

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

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Description: 1608 WiFi 6E Chip Antenna

PART NUMBER: ANT1608LL14R2460A

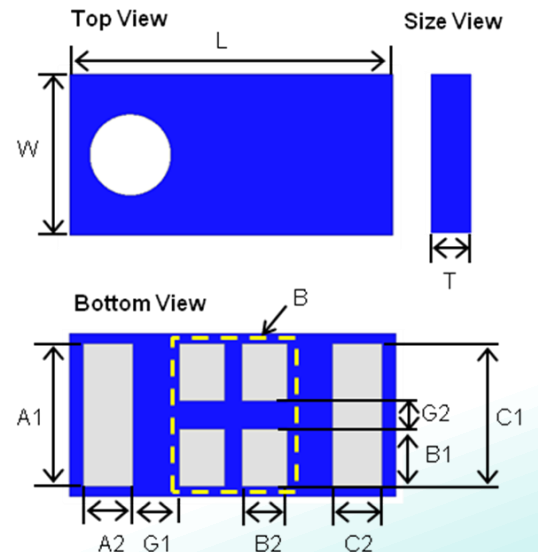
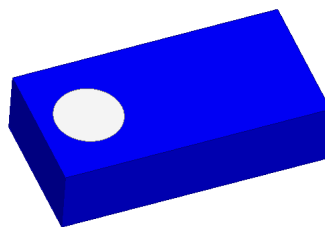
ELECTRICAL SPECIFICATIONS

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 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 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

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

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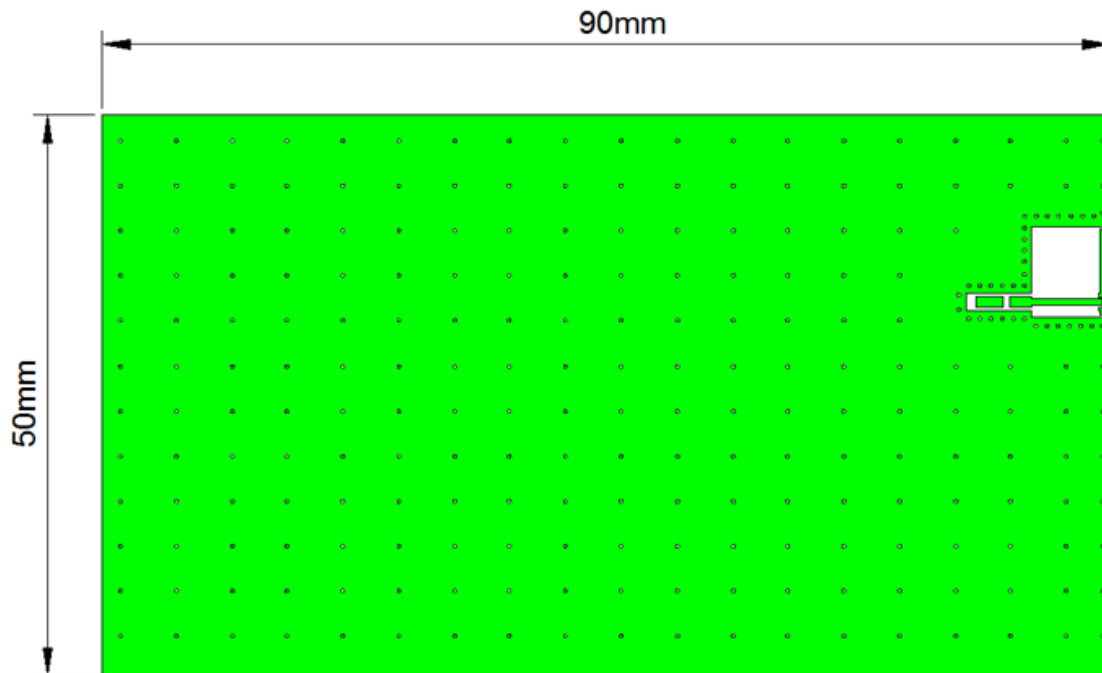
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Description: 1608 WiFi 6E Chip Antenna

PART NUMBER: ANT1608LL14R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

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

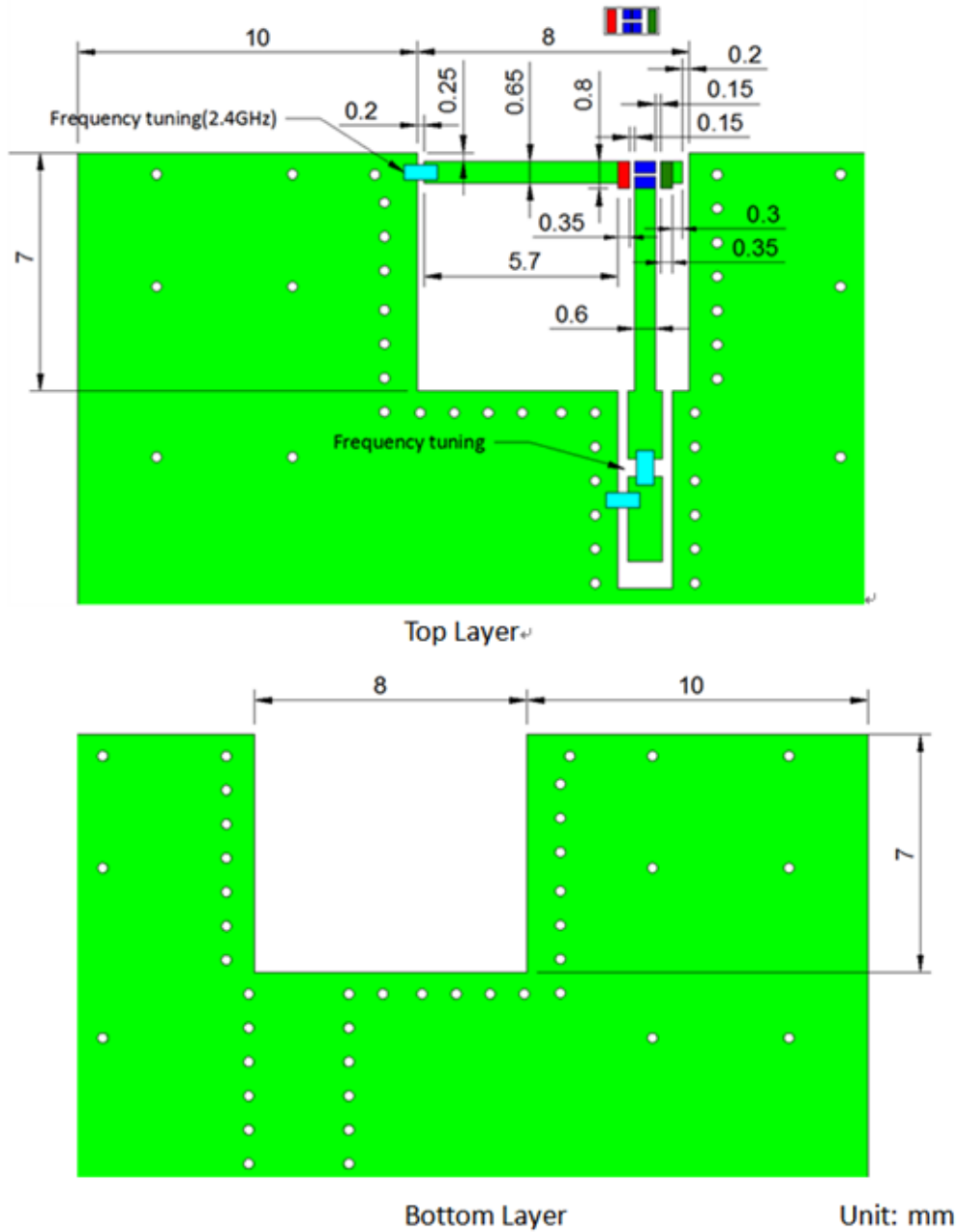
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Description: 1608 WiFi 6E Chip Antenna

PART NUMBER: ANT1608LL14R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Details of soldering Pad

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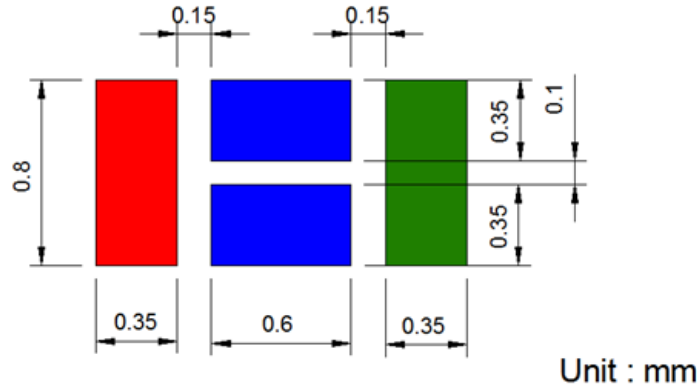
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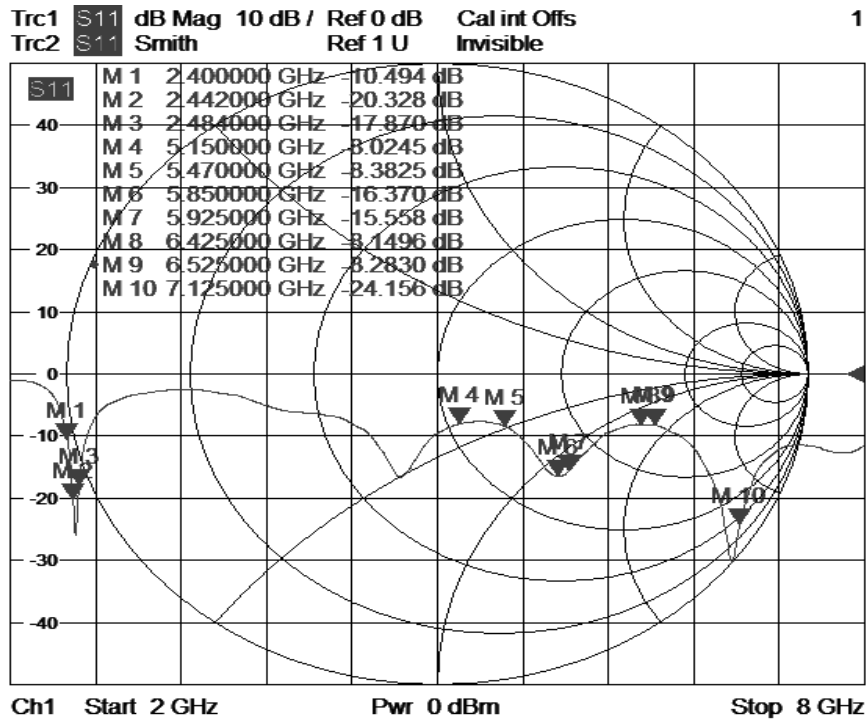
PART NUMBER: ANT1608LL14R2460A

REFERENCE DESIGN OF EVALUATION BOARD



- : Footprint for 2.4GHz
- : Footprint for Feeding
- : Footprint for 6GHz

Footprint



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

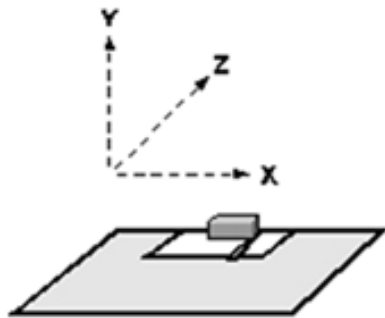
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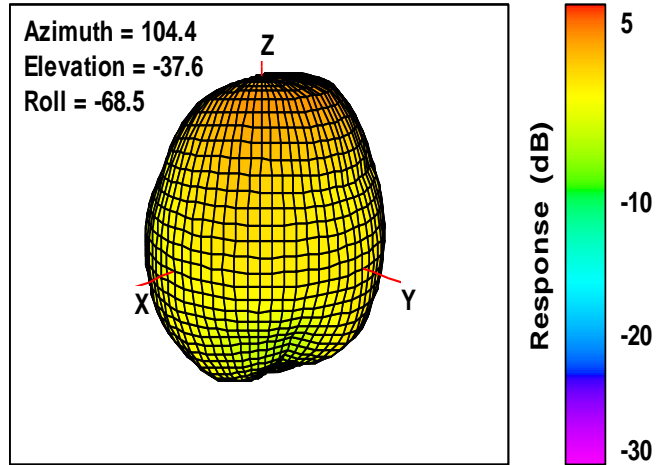
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PART NUMBER: ANT1608LL14R2460A

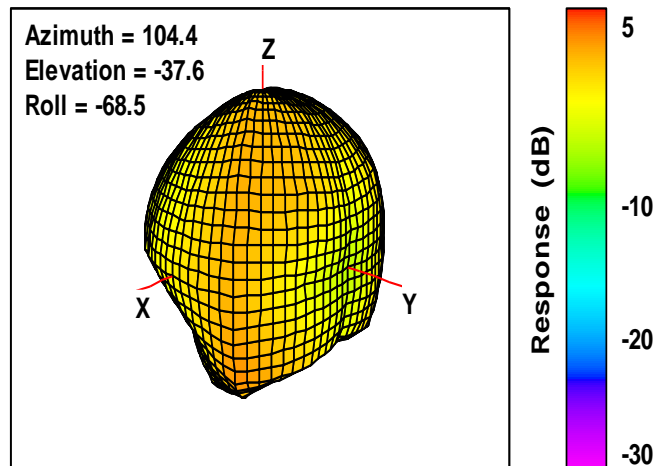
ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction



Frequency : 2.442 GHz
Efficiency : 71.2 %



Frequency : 5.470 GHz
Efficiency : 62.8 %

Radiation pattern

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

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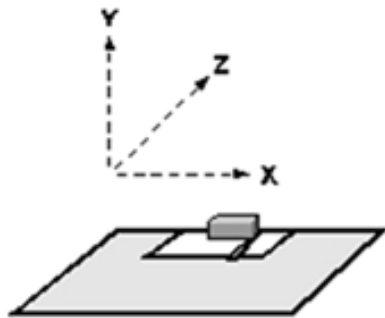
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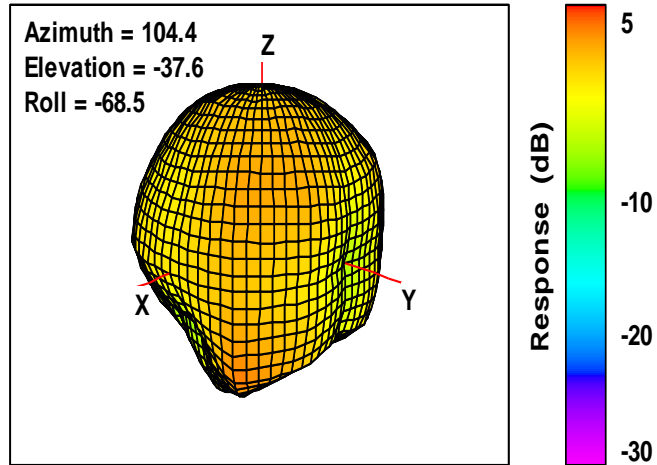
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PART NUMBER: ANT1608LL14R2460A

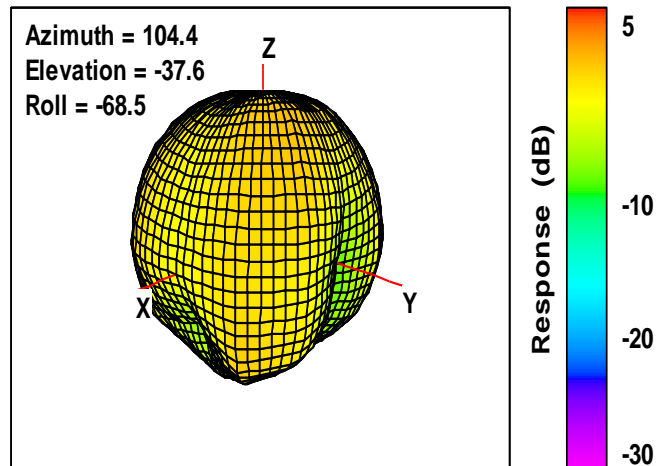
ELECTRICAL PERFORMANCES



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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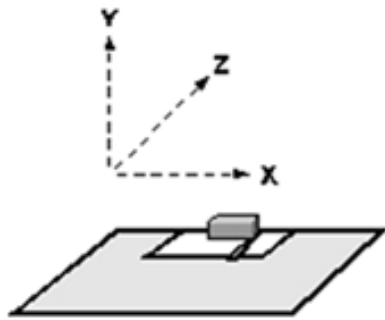
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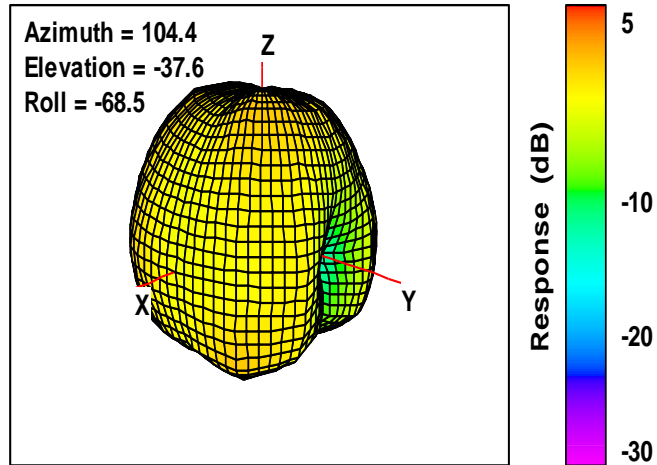
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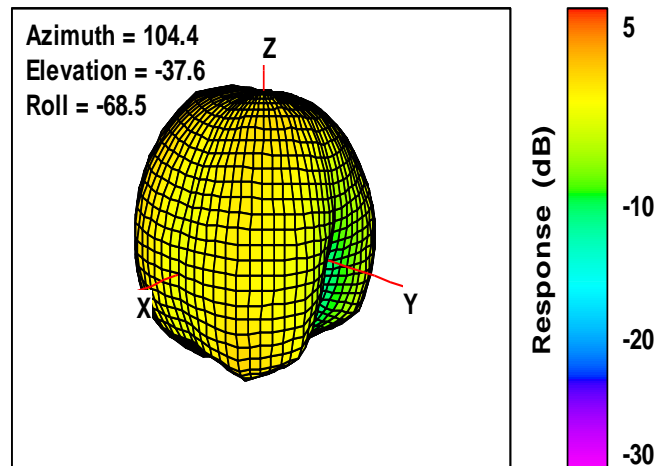
ELECTRICAL PERFORMANCES



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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Description: 1608 WiFi 6E Chip Antenna

PART NUMBER: ANT1608LL14R2460A

REVISION HISTORY

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

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