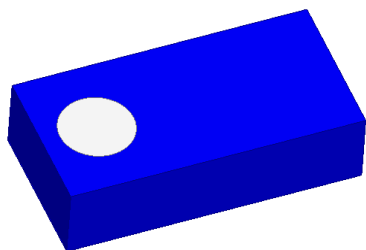


Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

Features:

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



Applications:

- 2.4&5GHz WiFi 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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Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

ELECTRICAL SPECIFICATIONS

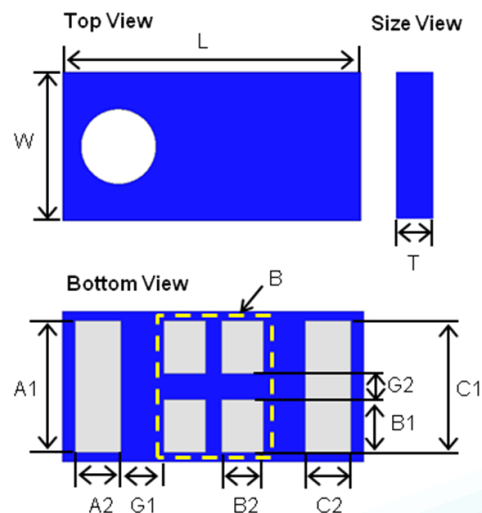
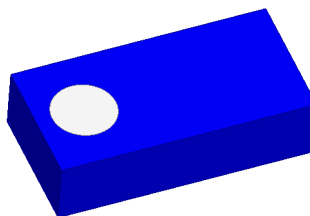
Working Frequency	2.45G / 5.5G Hz
Bandwidth	120 / 900M Hz(Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.11 / 3.43 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

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



Terminal name	Function
B	Feeding Point
A1,A2	Soldering Point for 2.4GHz
C1,C2	Soldering Point for 5GHz

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

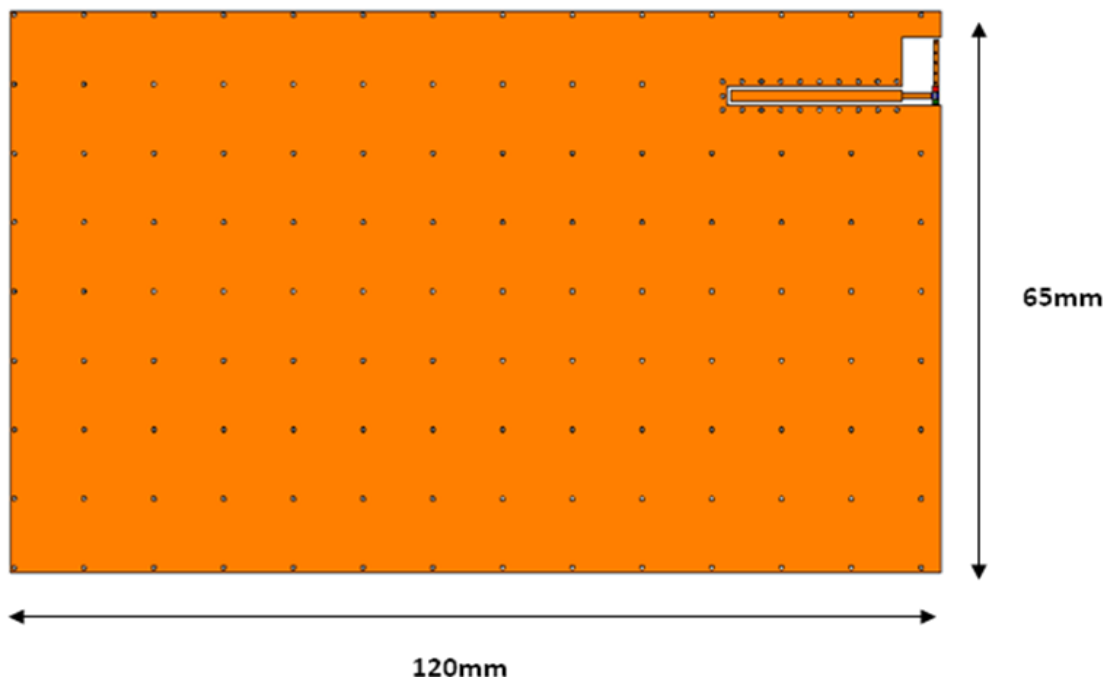
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Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REFERENCE DESIGN OF EVALUATION BOARD

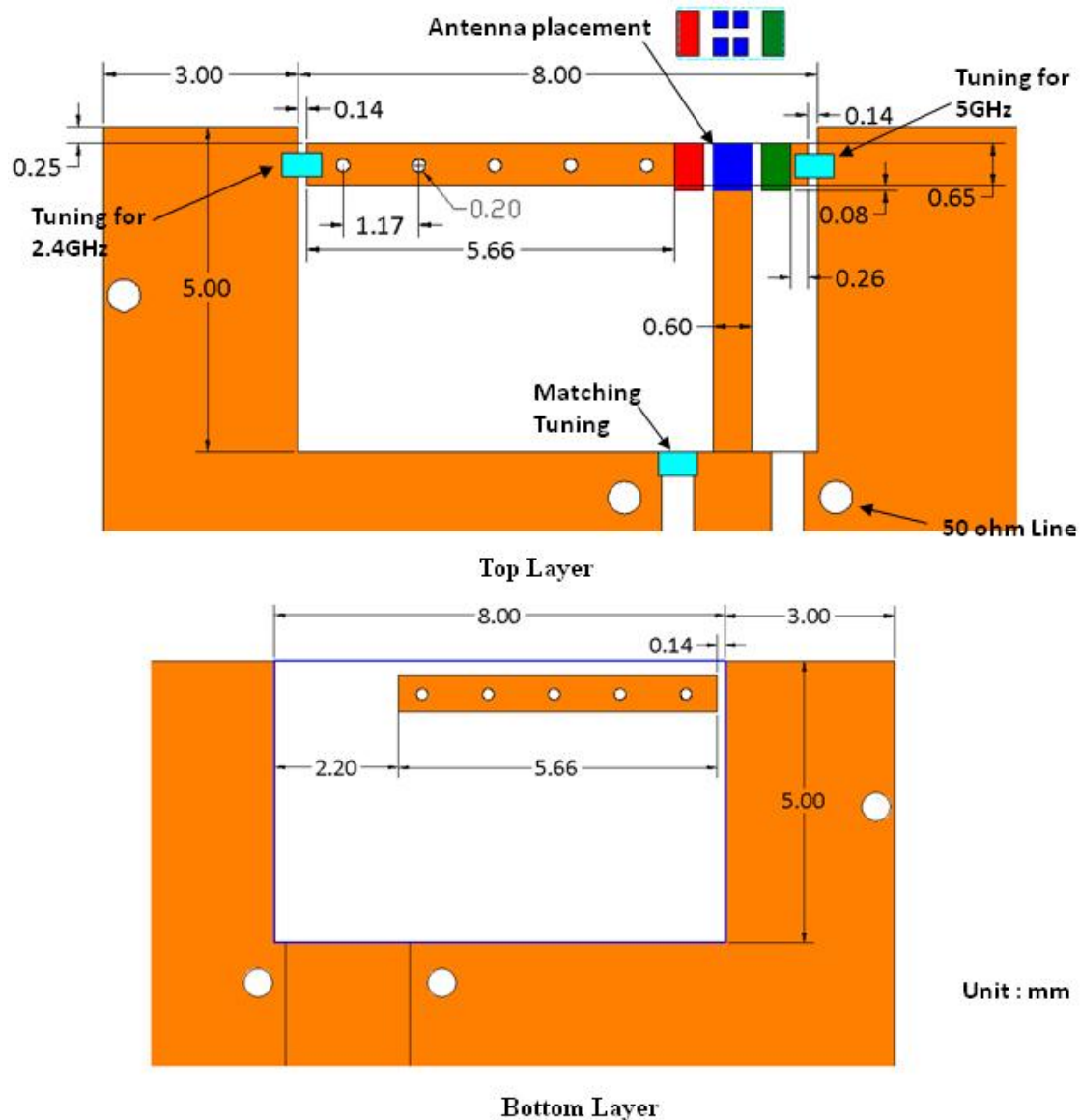


Outlook and dimension of evaluation board

Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REFERENCE DESIGN OF EVALUATION BOARD



Details of soldering Pad

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

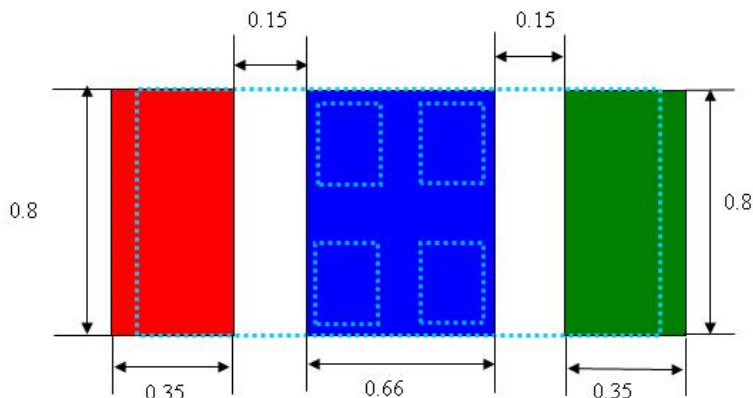
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Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REFERENCE DESIGN OF EVALUATION BOARD



■ Footprint for 2.4GHz

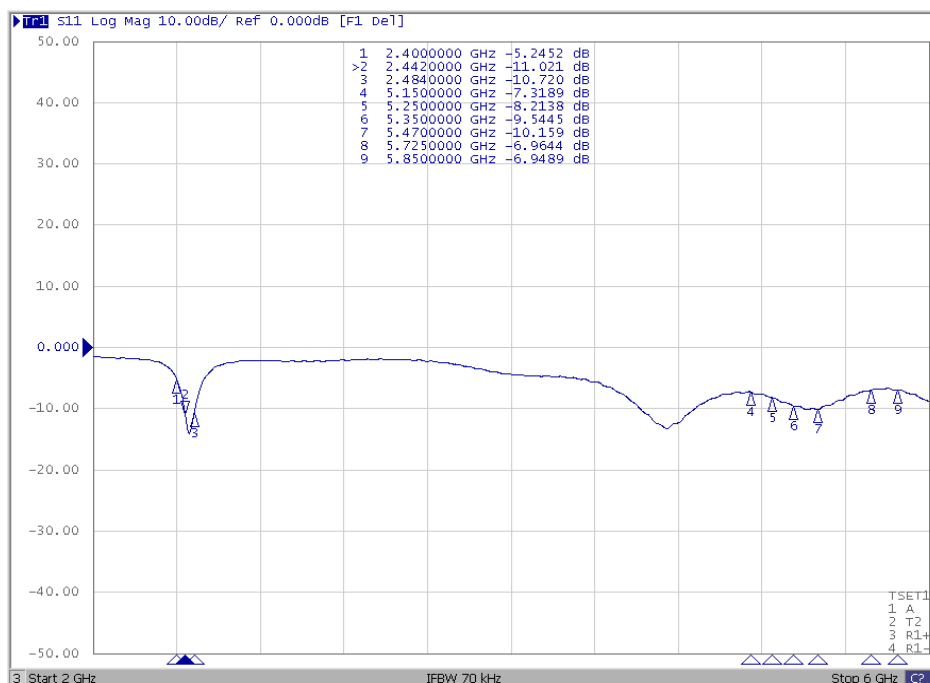
■ Footprint for Feeding

■ Footprint for 5GHz

Unit : mm

Antenna outline

Footprint



Return loss

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Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

ELECTRICAL PERFORMANCES

Model name

1608

Test mode

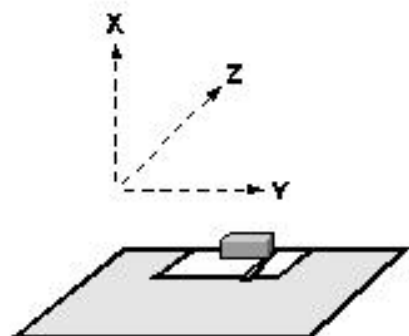
DB

Test frequency / Polarization

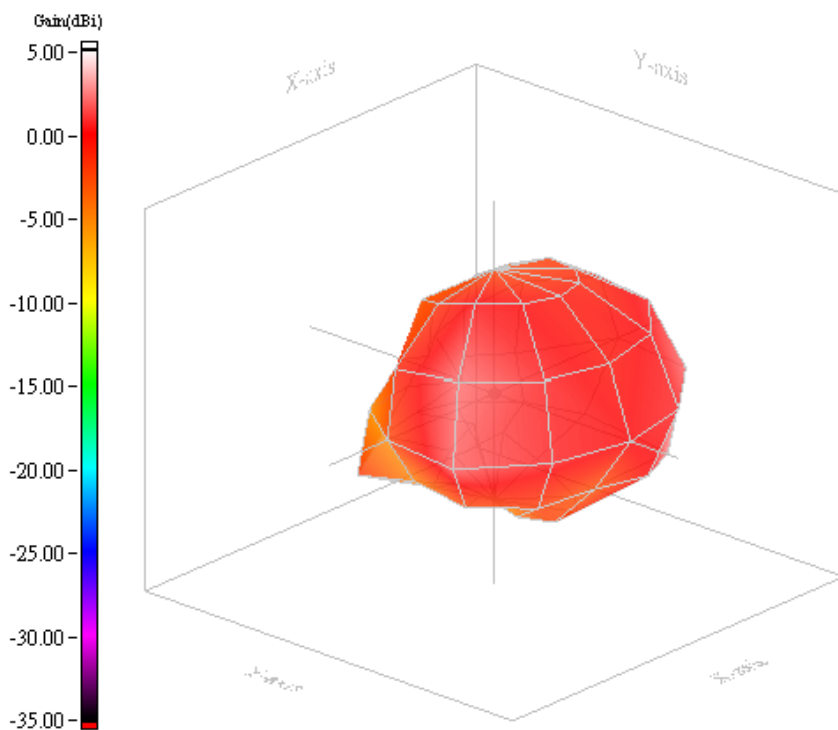
2450.00 MHz / Vector

Test date

2014/11/6



Evaluation board and XYZ direction



Max gain= 3.11dBi, at (120, 150)
MEG (mean effective gain)= -2.69dBi
Directivity(dB)= 5.31
Efficiency= -2.20dB, 60.28 %

Radiation pattern

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

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Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

ELECTRICAL PERFORMANCES

Model name

1608

Test mode

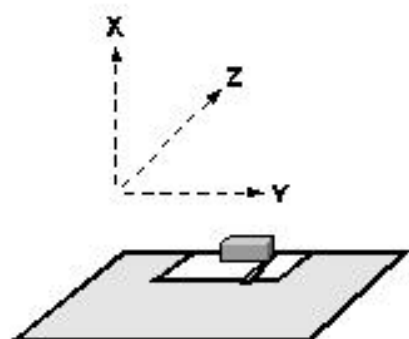
DB

Test frequency / Polarization

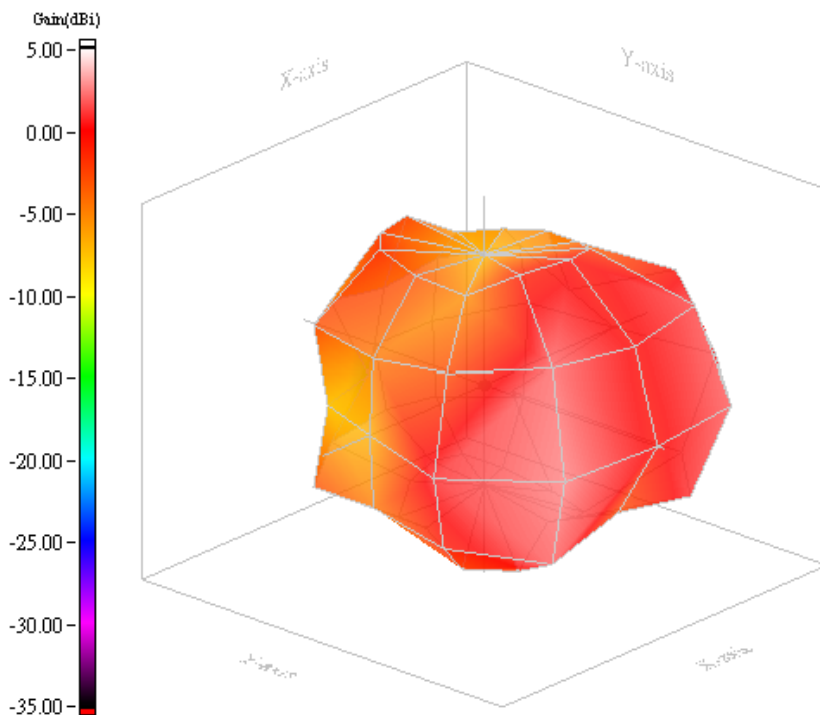
5470.00 MHz / Vector

Test date

2014/11/6



Evaluation board and XYZ direction



Max gain= 2.50dBi, at (90, 60)
MEG (mean effective gain)= -3.79dBi
Directivity(dB)= 5.07
Efficiency= -2.57dB, 55.28%

Radiation pattern

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Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 13, 2020	- New issue