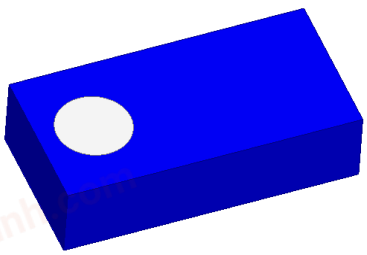
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Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

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

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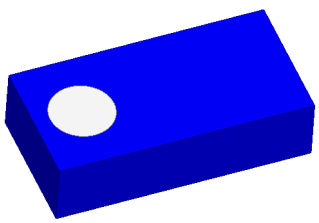
ELECTRICAL SPECIFICATIONS

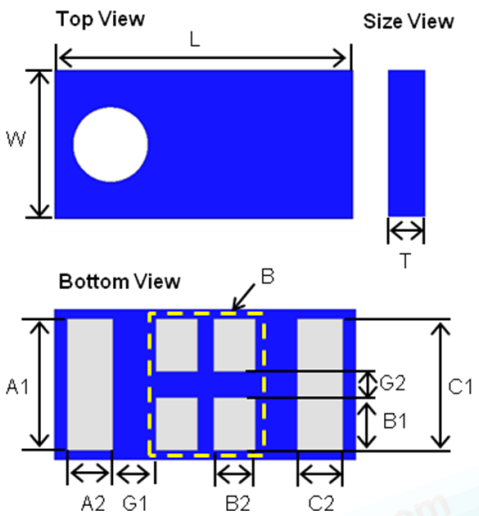
Working Frequency	2.45G / 5.5G Hz
Bandwidth	120 / 900M Hz(Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.11 / 3.43 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃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

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	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 5GHz

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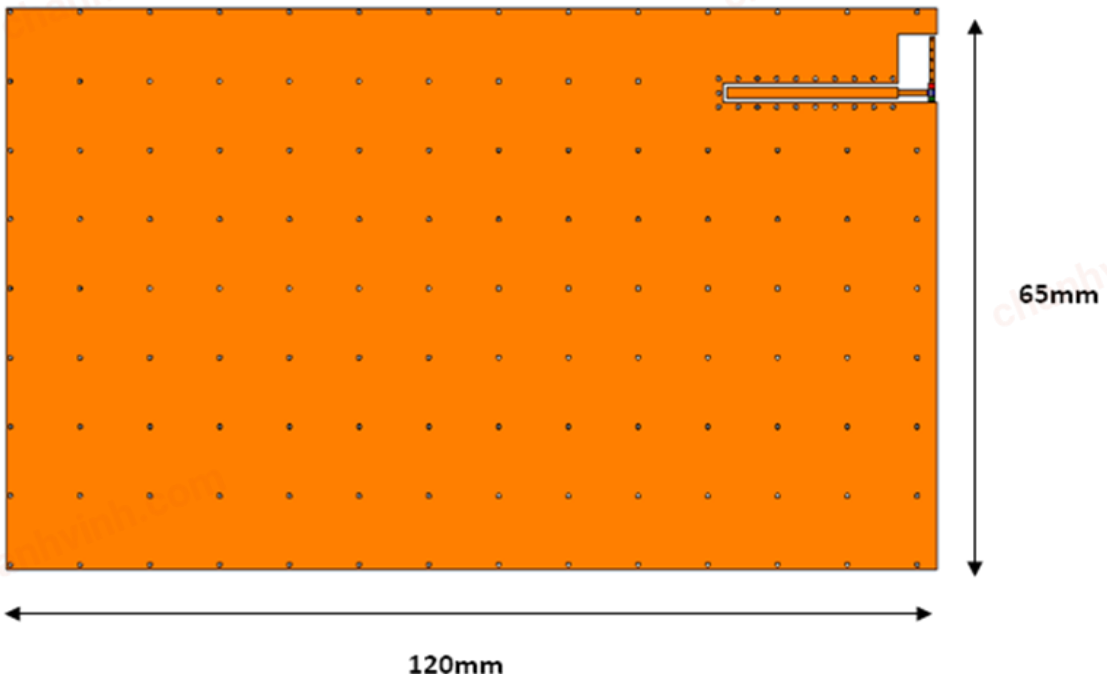
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TECHNICAL DATA SHEET

Description: 1608 2.4G&5G Chip Antenna

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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

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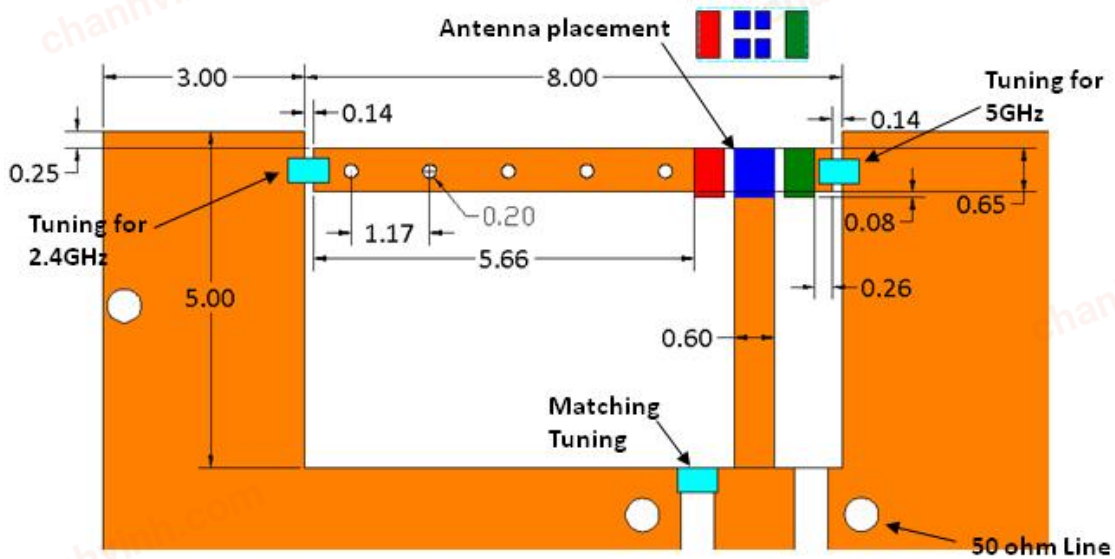
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TECHNICAL DATA SHEET

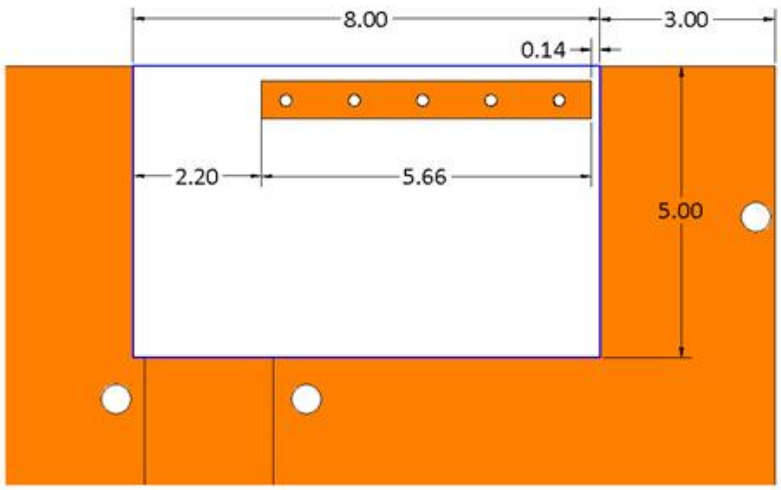
Description: 1608 2.4G&5G Chip Antenna

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REFERENCE DESIGN OF EVALUATION BOARD



Top Layer



Unit : mm

Bottom Layer

Details of soldering Pad

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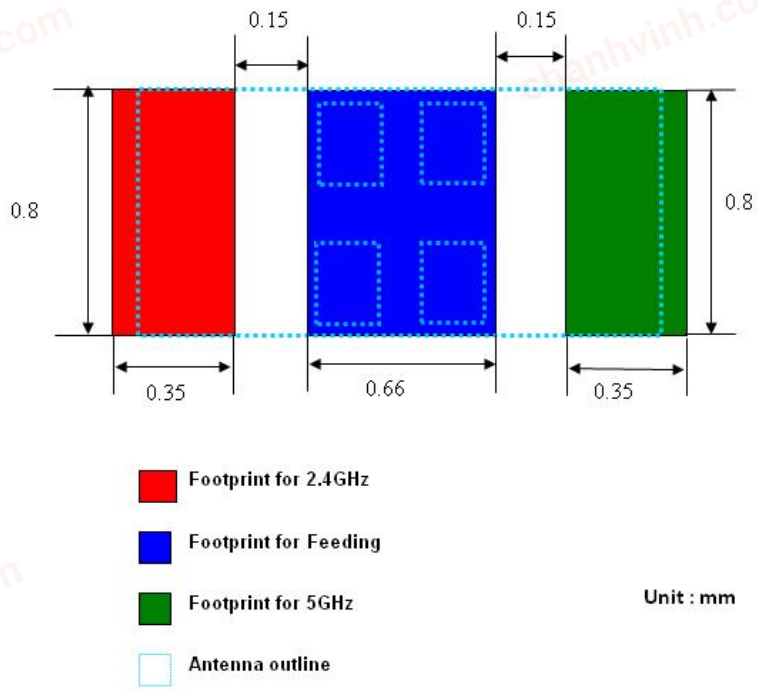
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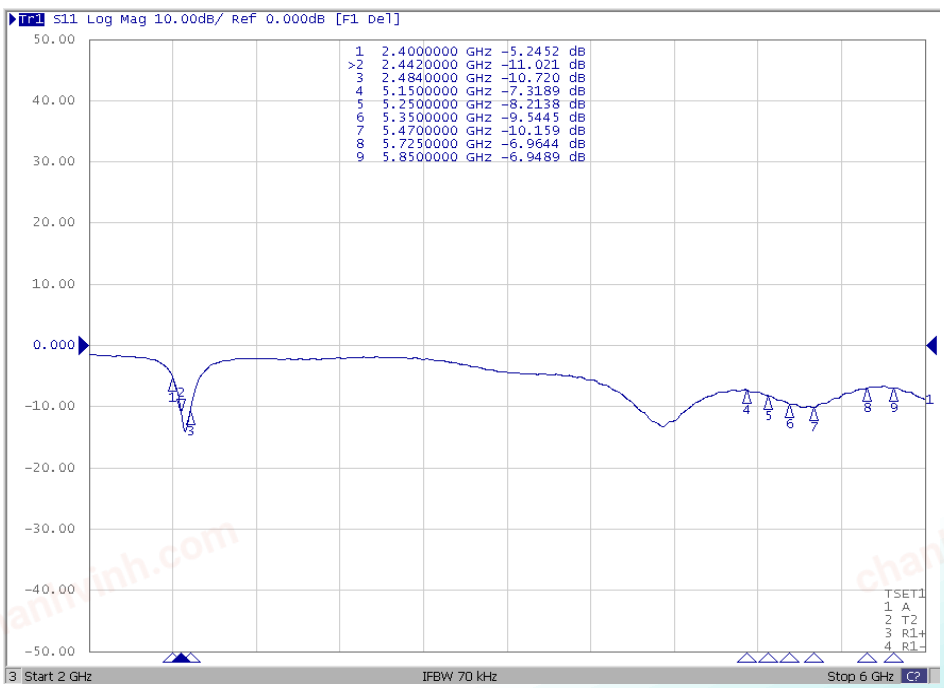
Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REFERENCE DESIGN OF EVALUATION BOARD



Footprint



Return loss

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RoHS COMPLIANT

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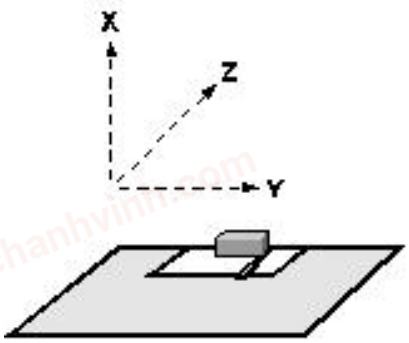
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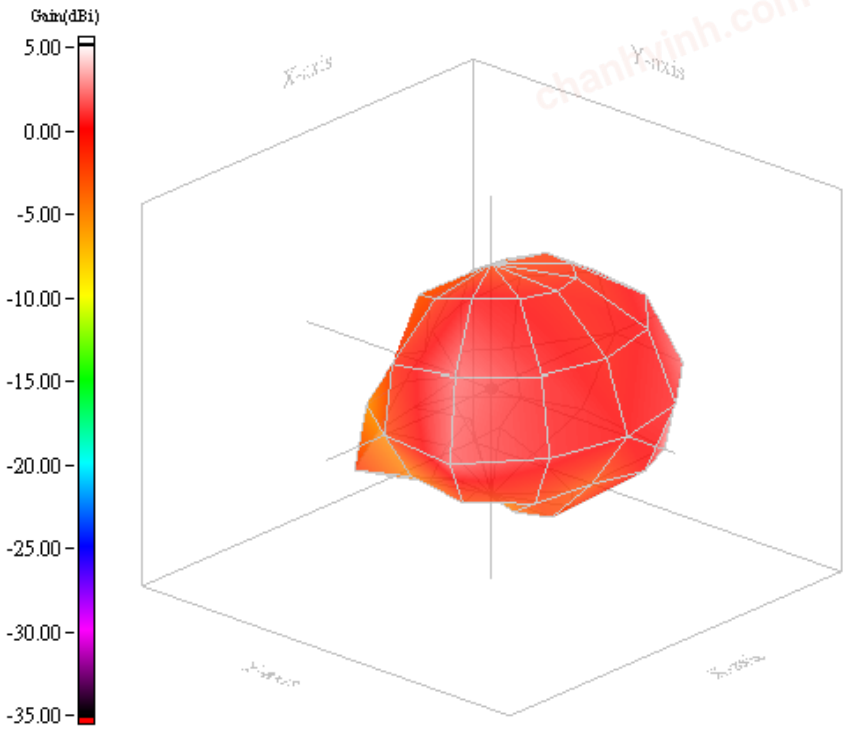
PART NUMBER: ANT1608LL14R2455A

ELECTRICAL PERFORMANCES

Model name	Test mode
1608	DB
Test frequency / Polarization	**Test date**
2450.00 MHz / Vector	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

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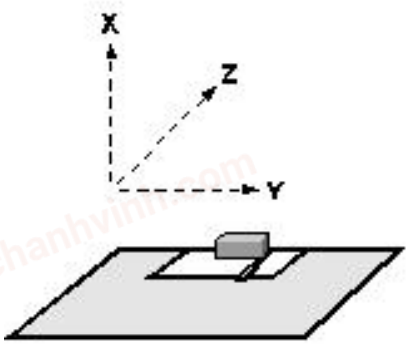
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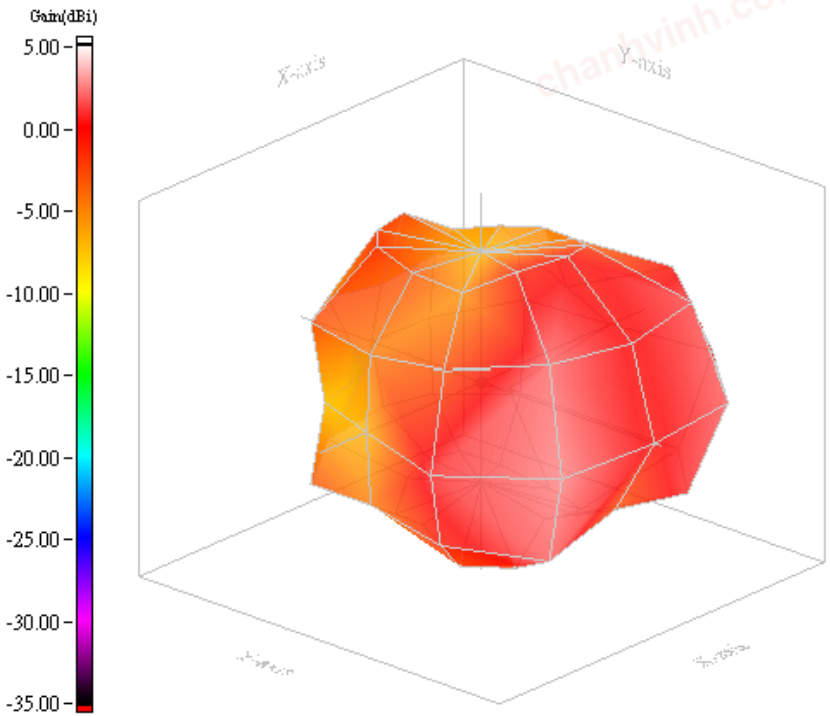
PART NUMBER: ANT1608LL14R2455A

ELECTRICAL PERFORMANCES

Model name	Test mode
1608	DB
Test frequency / Polarization	**Test date**
5470.00 MHz / Vector	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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TECHNICAL DATA SHEET

Description: 1608 2.4G&5G Chip Antenna

PART NUMBER: ANT1608LL14R2455A

REVISION HISTORY

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

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