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Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 5320 2.4&5GHz Chip Antenna

PART NUMBER: ANT5320LL24R2455A

Features:

- Size : 5.30x2.00x1.15 mm
- Omni-directional radiation
- Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- 2.4 & 5 GHz WiFi device
- ISM band equipment

ELECTRICAL SPECIFICATIONS

Working Frequency	2.45 / 5 GHz
Bandwidth	120M / 900 MHz(Min.)
Return Loss	10 dB Min.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.17 / 3.51 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

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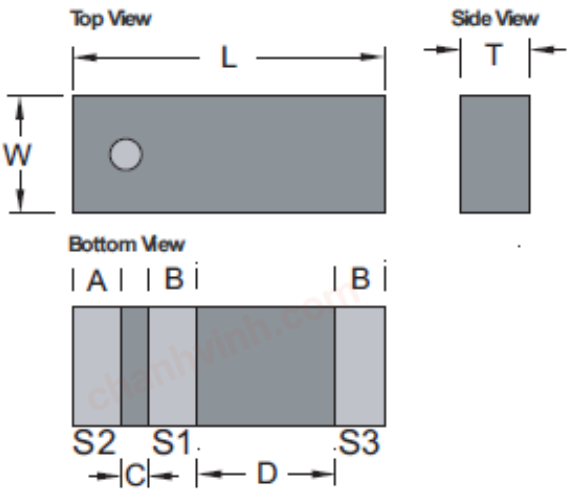
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MECHANICAL DRAWING

Dimension	
L (mm)	5.30 ±0.10
W (mm)	2.00 ±0.10
T (mm)	1.15 ±0.10
A (mm)	0.82 ±0.10
B (mm)	0.83 ±0.10
C (mm)	0.46 ±0.10
D (mm)	2.33 ±0.10





Terminal name	Function
S1	Feeding Point
S2	Soldering Point
S3	Ground Point

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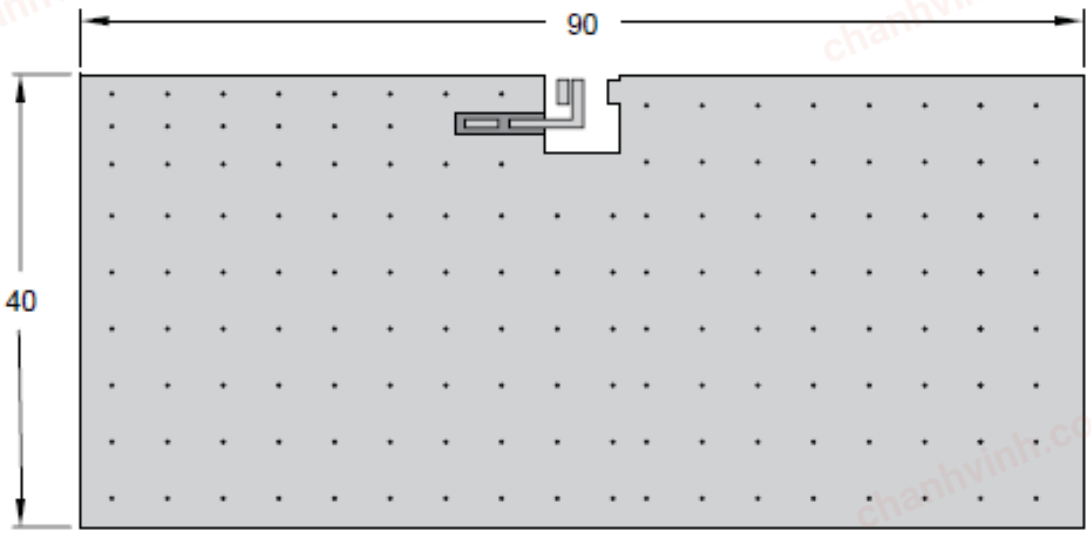
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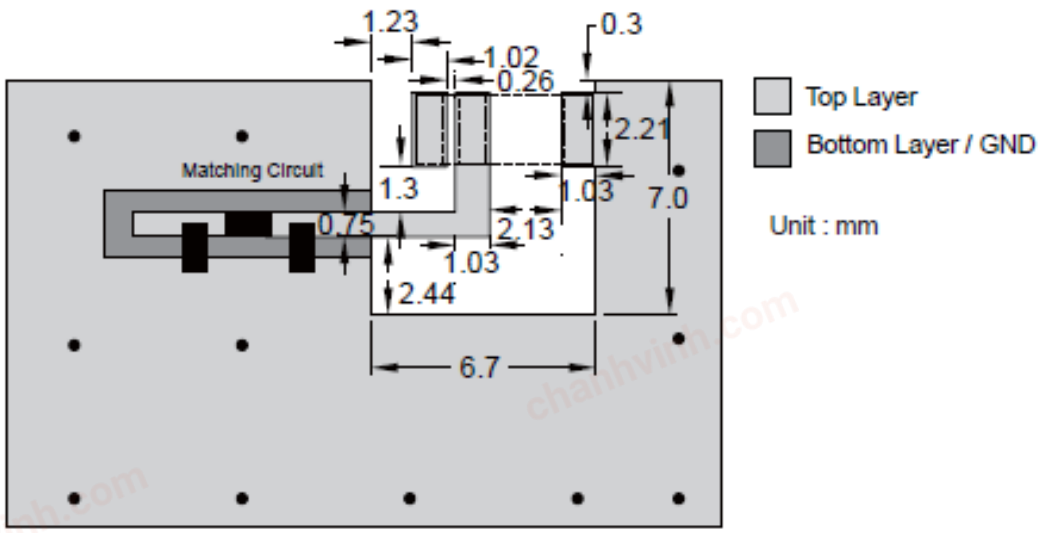
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Dimension of footprint

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RoHS COMPLIANT

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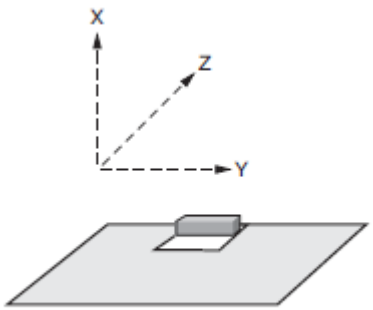
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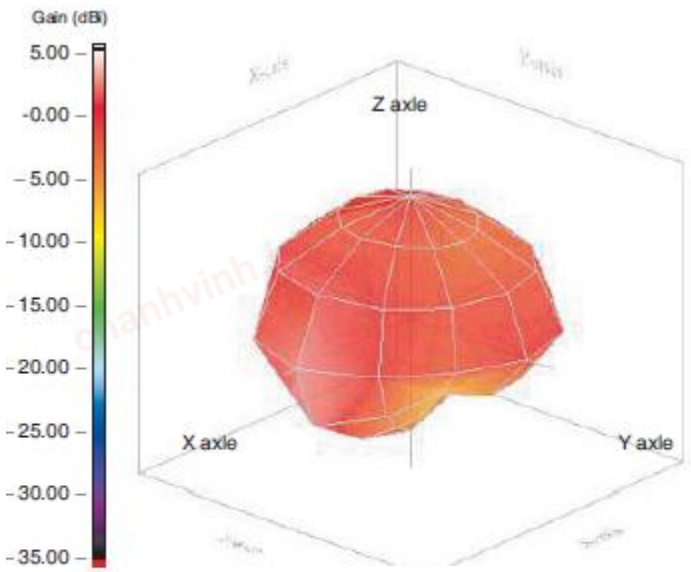
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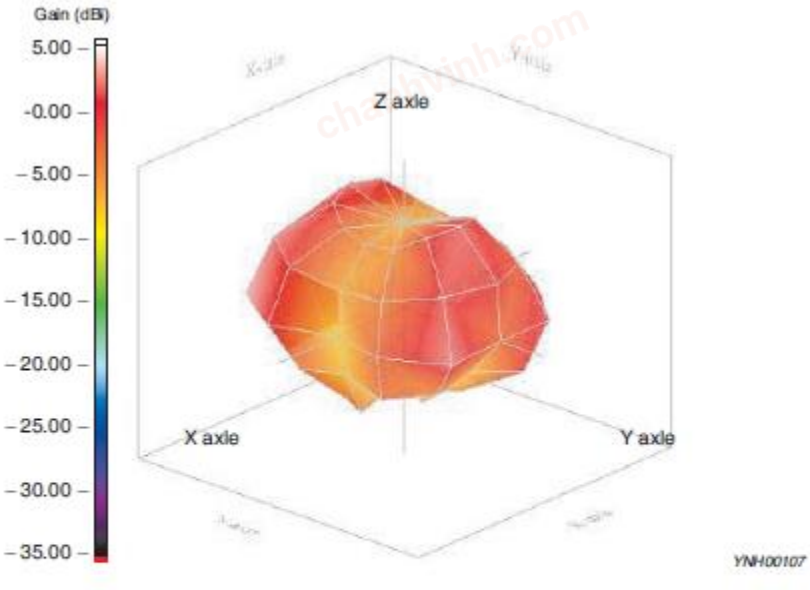
REFERENCE DESIGN OF EVALUATION BOARD



Evaluation board and XYZ direction



Frequency= 2.45 GHz
Max gain = 2.17 dBi, at (90,0)
MEG (mean effective gain)= -1.23 dBi
Directivity (dB) = 3.48
Efficiency = -1.31dB, 73.98 %



Frequency= 5.47 GHz
Max gain = 3.51 dBi, at (90,300)
MEG (mean effective gain)= -2.68 dBi
Directivity (dB) = 4.95
Efficiency = -1.44dB, 71.82 %

Radiation pattern

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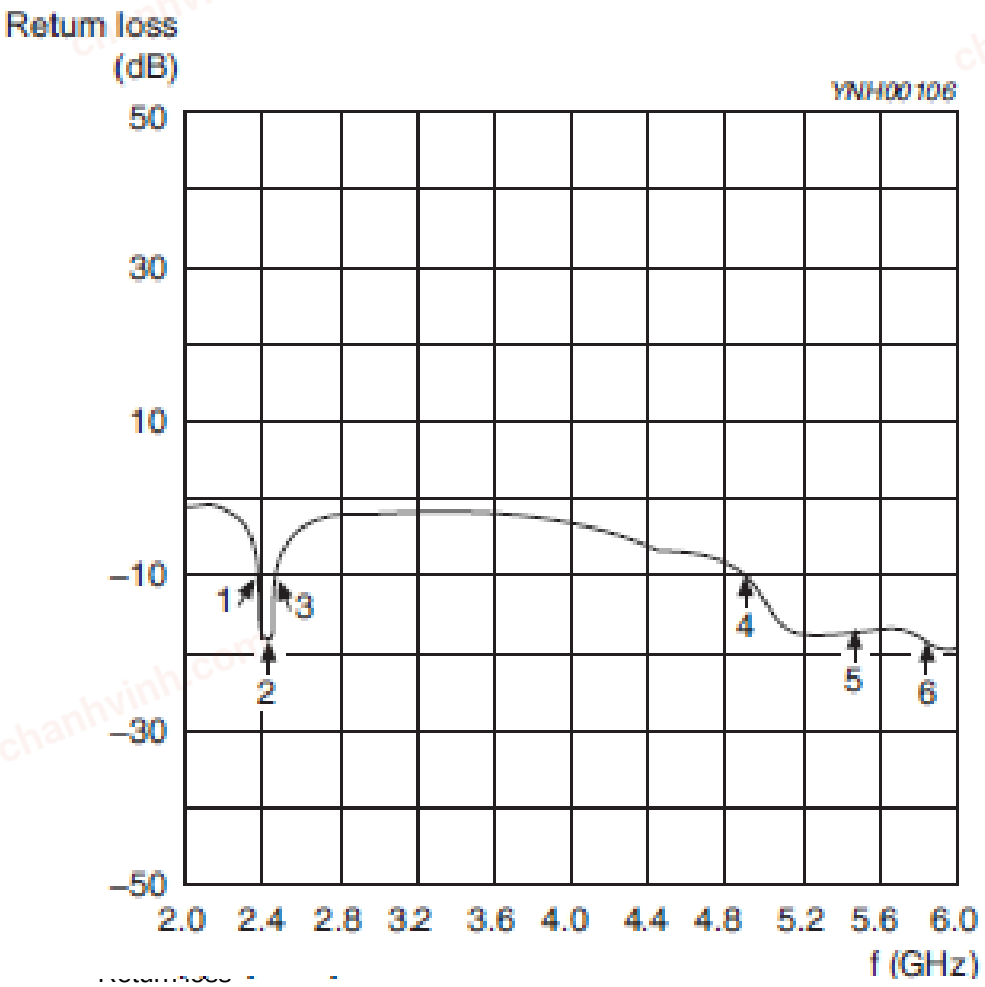
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ELECTRICAL PERFORMANCES



Maker data
2.38GHz, -10.00dB
2.45GHz, -16.20dB
2.50GHz, -10.00dB
4.95GHz, -10.00dB
5.47GHz, -16.80dB
5.85GHz, -18.20dB

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 23, 2020	- New issue

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