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Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 5320 2.4G&5GHz Chip Antenna

PART NUMBER: ANT5320LL04R2455A



Features:

- Size : 5.3x2.0x1.4 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

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RoHS COMPLIANT

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ELECTRICAL SPECIFICATIONS

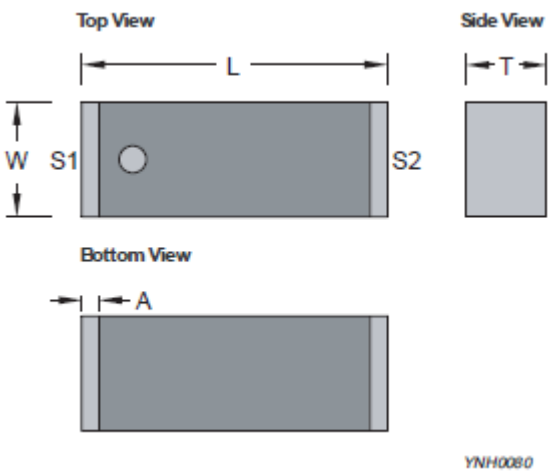
Working Frequency	2.45 G / 5.5GHz
Bandwidth	150M / 900MHz(Typ.)
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.09 / 4.32 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	5.30 ±0.20
W (mm)	2.00 ±0.20
T (mm)	1.40 ±0.30
A(mm)	0.40 ±0.20





Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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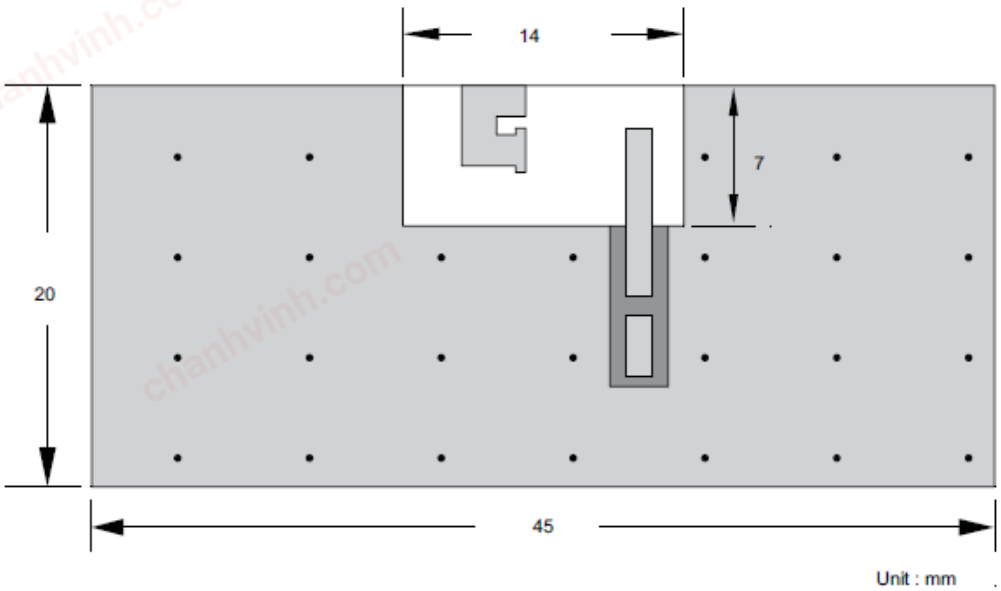
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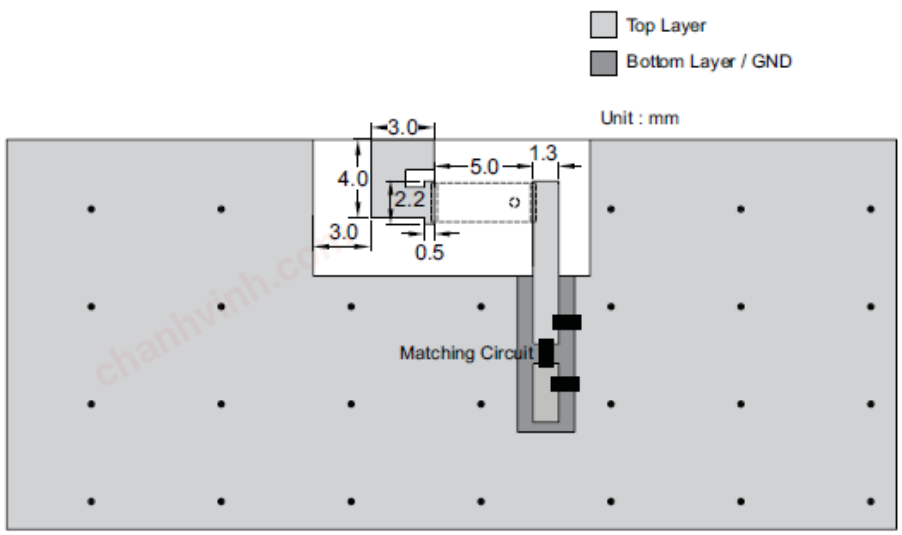
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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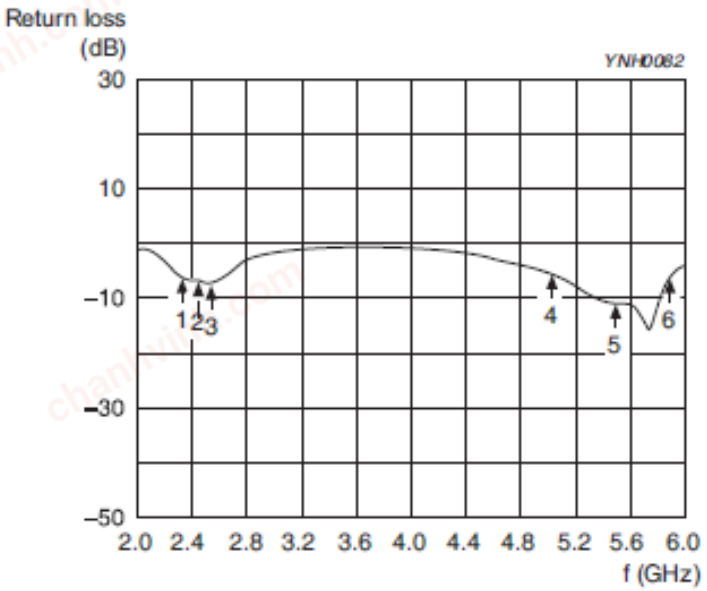
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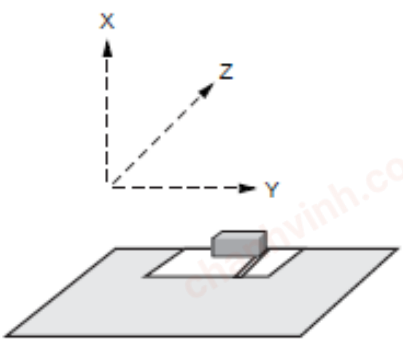
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ELECTRICAL PERFORMANCES

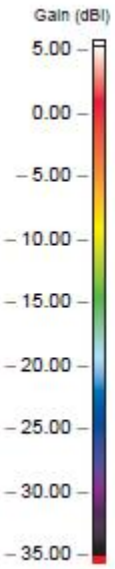


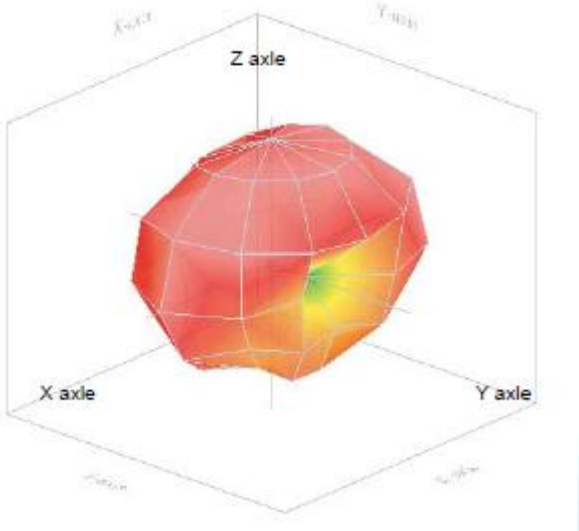
Marker data
1. 2.37GHz , -6.5dB
2. 2.45GHz , -7.6dB
3. 2.52GHz , -6.5dB
4. 5.05GHz , -6.5dB
5. 50GHz , -11.9dB
6. 95GHz , -6.5dB

Return loss



Evaluation board and XYZ direction





Max gain = 2.09 dBi, at (60, 150)
MEG (mean effective gain)= -1.18 dBi
Directivity (dB) = 3.58
Efficiency = -1.49 dB, 71.01 %

Radiation pattern

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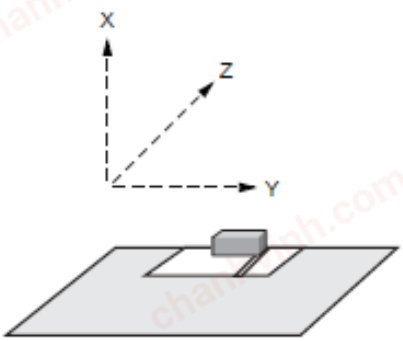
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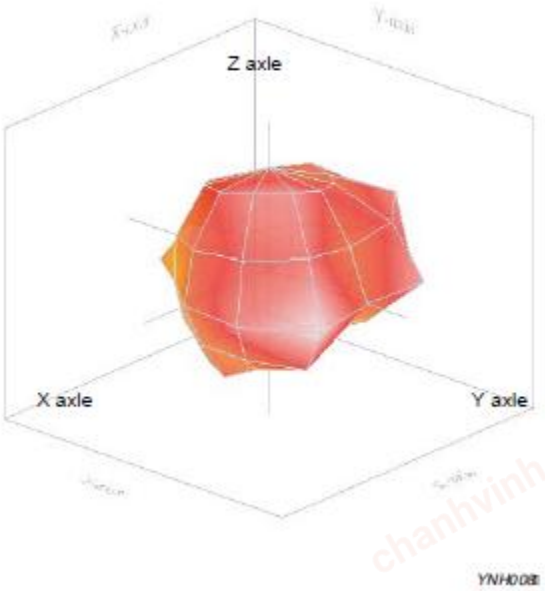
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ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction





Radiation pattern

Frequency= 5.5 GHz
Max gain = 4.32 dBi, at (90, 60)
MEG (mean effective gain)= -2.57 dBi
Directivity (dB) = 6.36
Efficiency = -2.04 dB, 62.52 %

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REVISION HISTORY

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

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