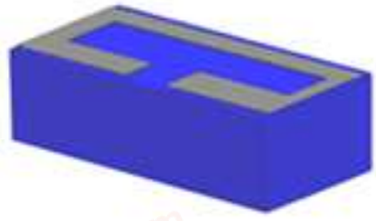
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TECHNICAL DATA SHEET

Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A



Features:

- Size : 3.2x1.6x1.2 mm
- Omni-directional Radiation
- Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- WiFi 6E device
- ISM band equipment

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TECHNICAL DATA SHEET

Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

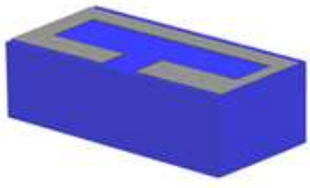
ELECTRICAL SPECIFICATIONS

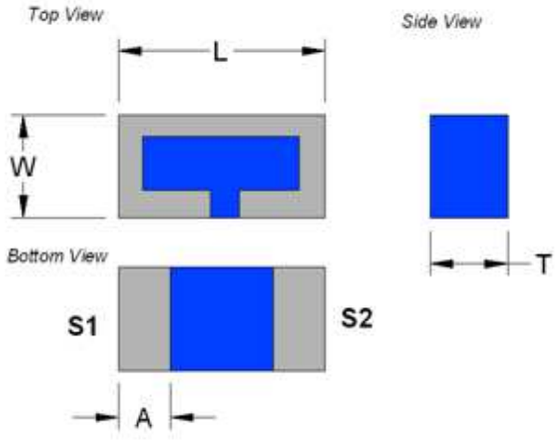
Working Frequency	2.4GHz / 5.15 ~ 7.125GHz
Bandwidth	84MHz / 2000MHz(Typ.)
Return Loss	< -7.0 dB
Polarization	Linear
Peak Gain	2.0 / 2.5 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	3.2 ±0.20
W (mm)	1.6 ±0.20
T (mm)	1.2 ±0.20
A (mm)	0.8 ±0.20





Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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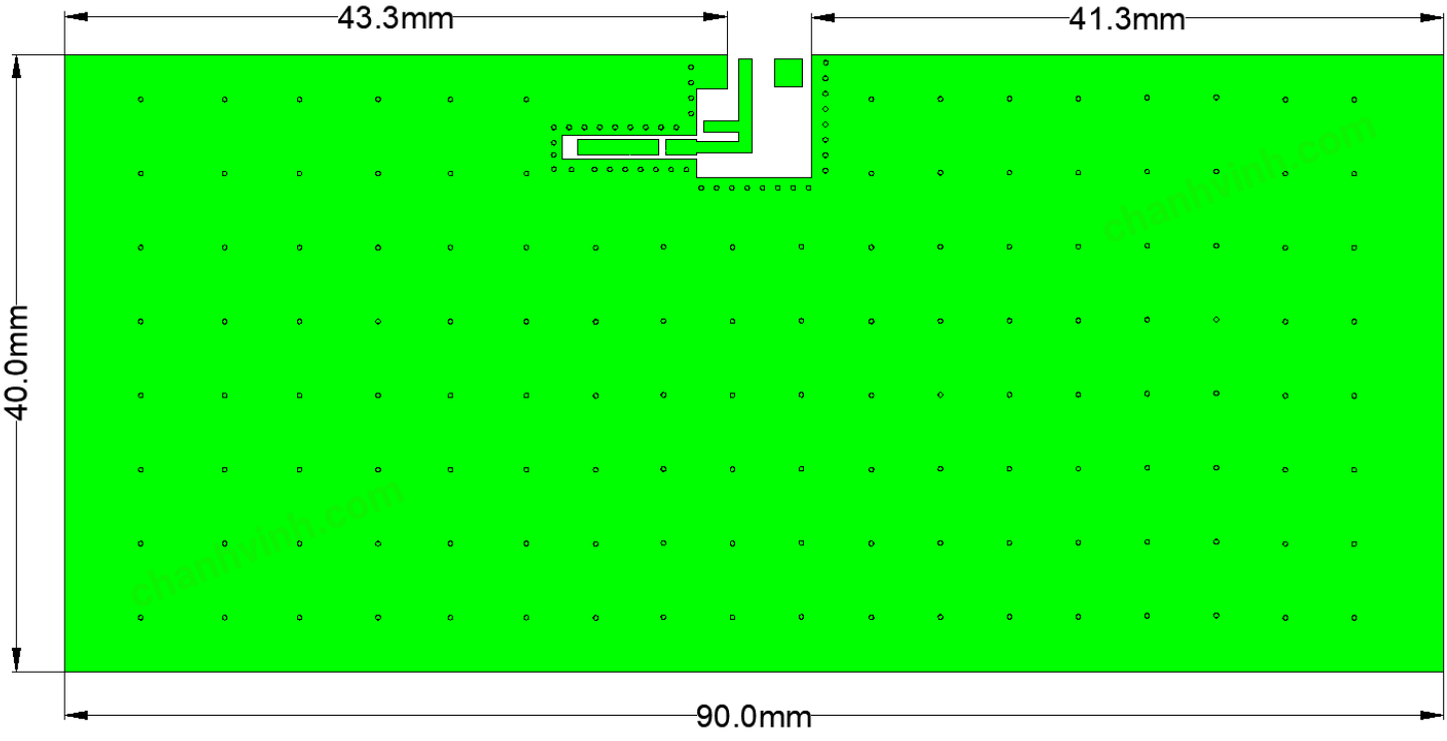
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TECHNICAL DATA SHEET

Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

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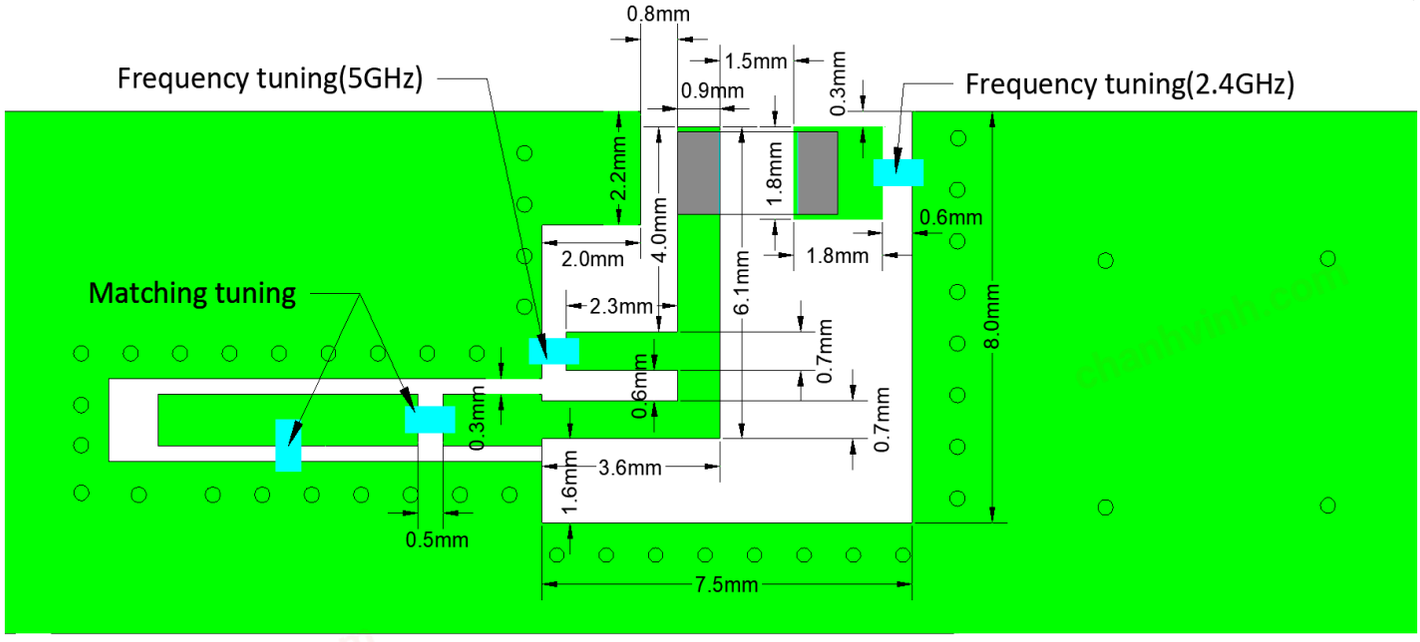
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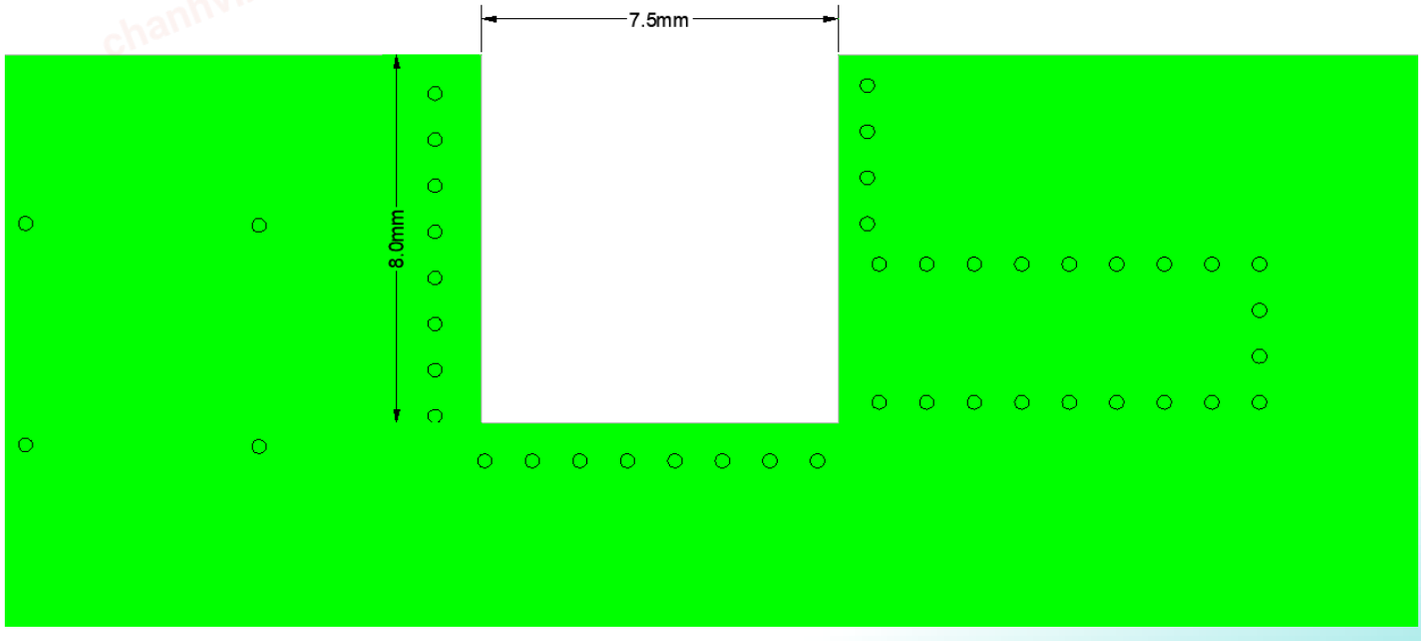
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Top Layer



Bottom Layer

Details of soldering Pad

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RoHS compliant

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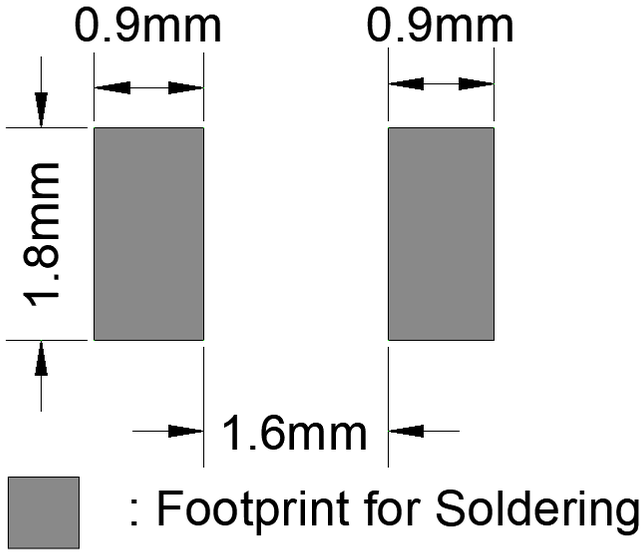
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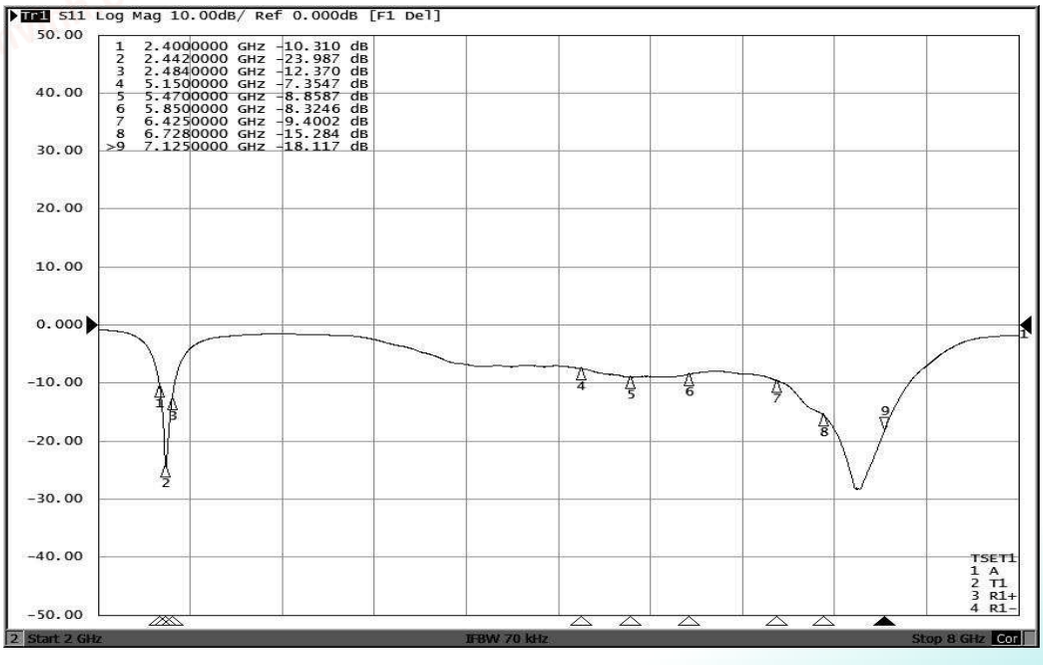
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Footprint



Return loss

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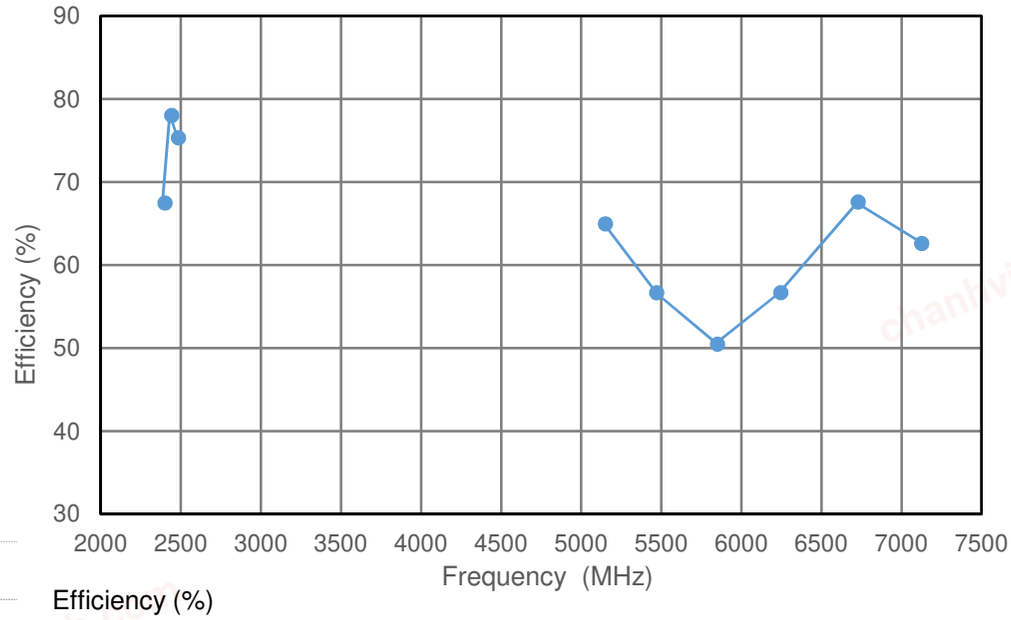
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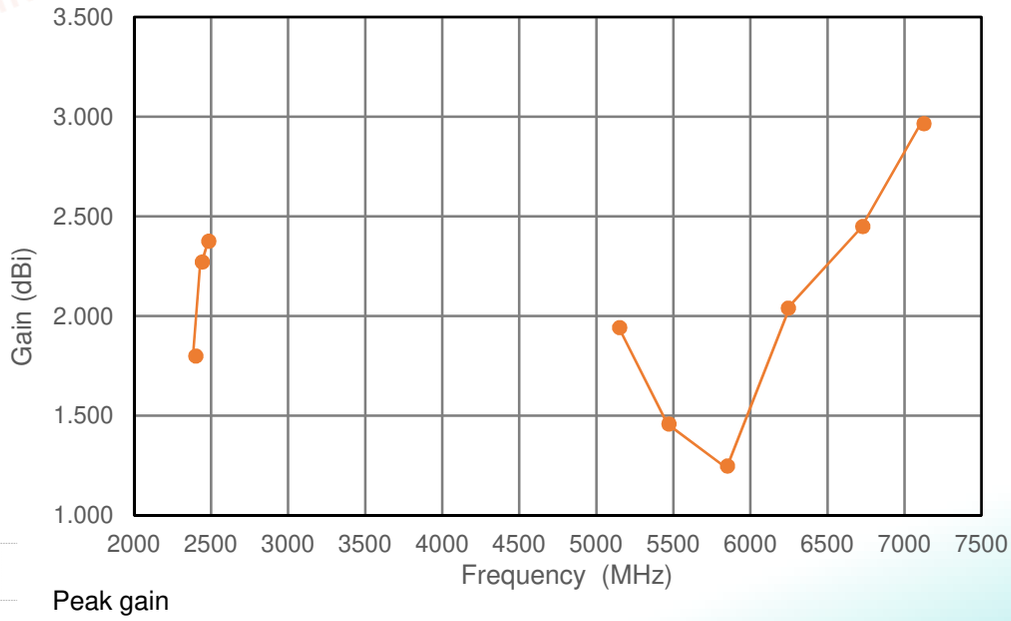
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Efficiency (%)



Peak gain

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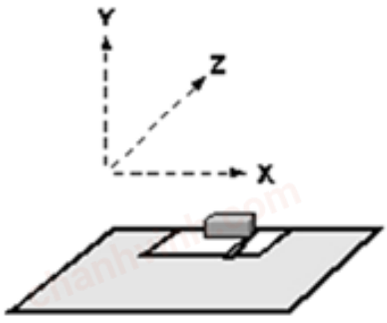
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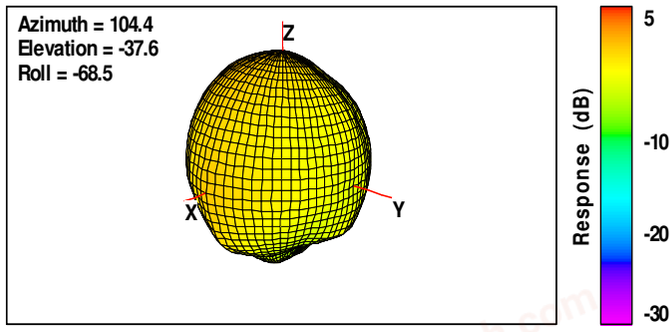
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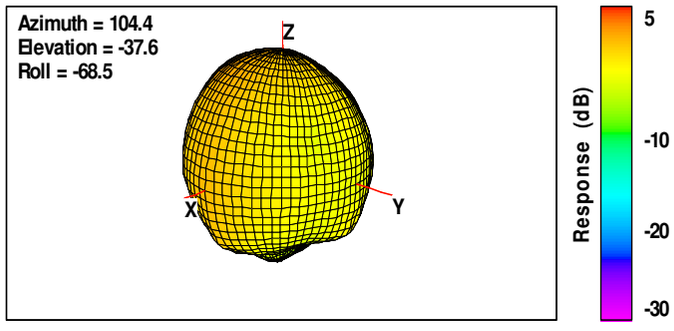
ELECTRICAL PERFORMANCES



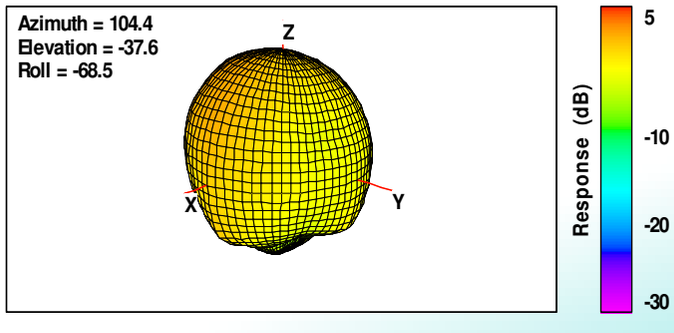
Evaluation board and XYZ direction



Frequency：2.400 GHz
Efficiency：67.4 %



Frequency：2.442 GHz
Efficiency：78.0 %



Radiation pattern

Frequency：2.484 GHz
Efficiency：75.3 %

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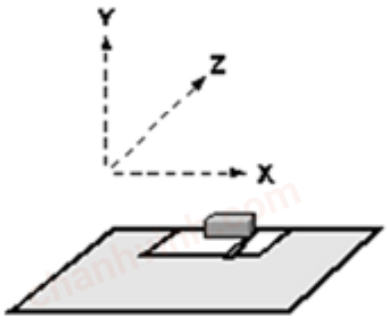
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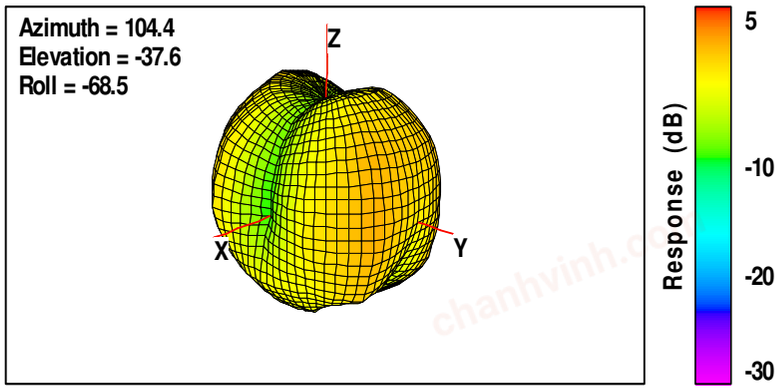
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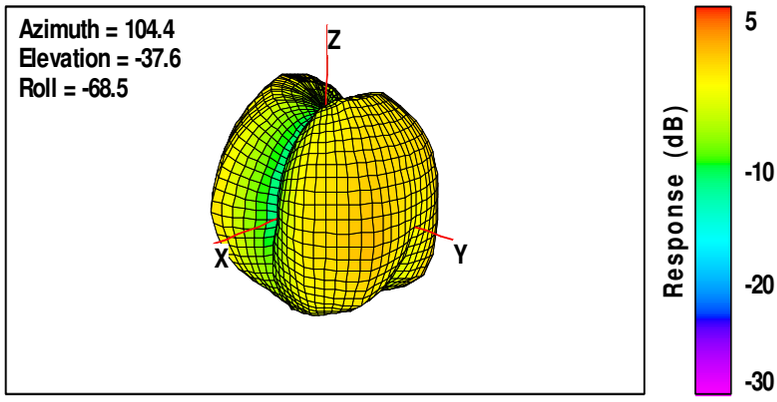
ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction



Frequency：5.15 GHz
Efficiency：64.9 %



Frequency：5.47 GHz
Efficiency：56.6 %

Radiation pattern

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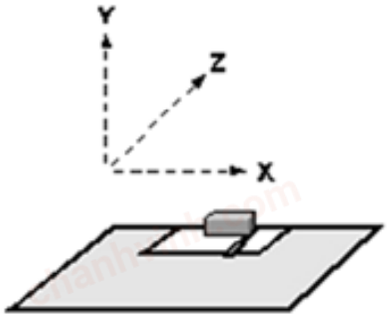
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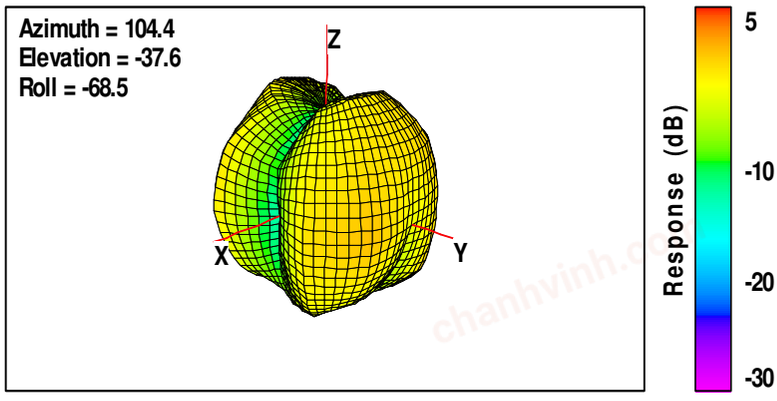
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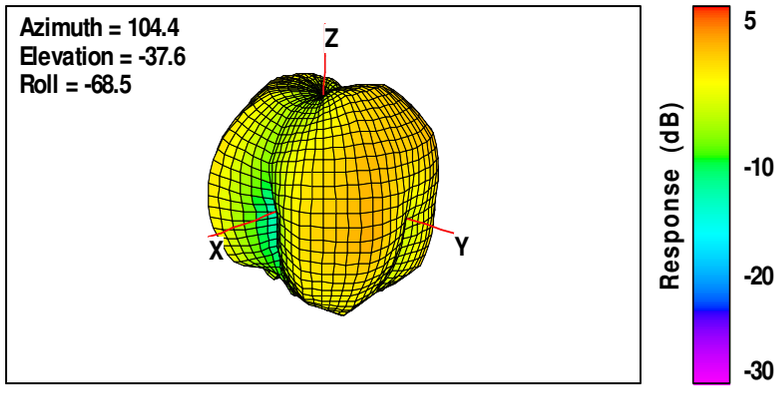
ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction



Frequency：5.850 GHz
Efficiency：50.4 %



Frequency：6.245 GHz
Efficiency：56.6 %

Radiation pattern

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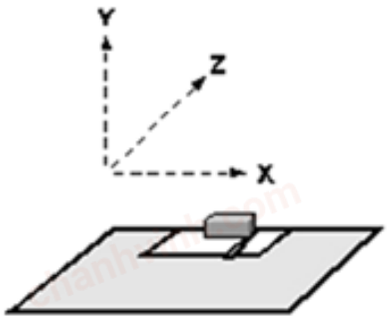
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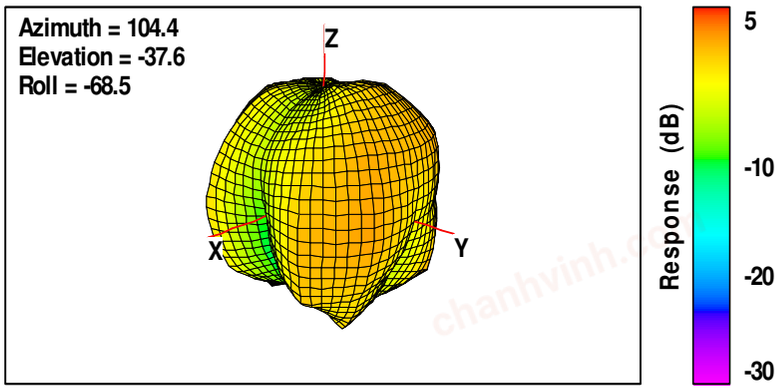
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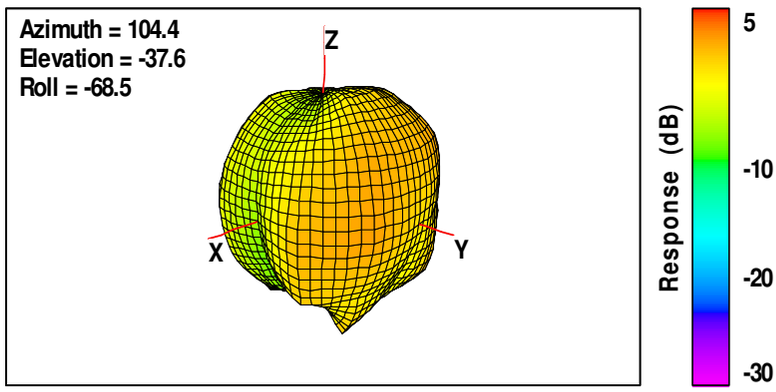
ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction



Frequency：6.728 GHz
Efficiency：67.6 %



Frequency：7.125 GHz
Efficiency：62.6 %

Radiation pattern

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TECHNICAL DATA SHEET

Description: 3216 WiFi 6E Chip Antenna

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REVISION HISTORY

Revision	Date	Description
Version 1	May. 11, 2021	- New issue

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