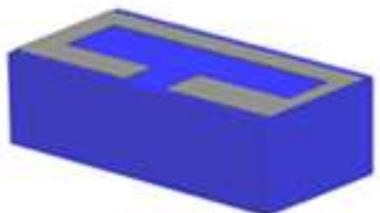


Description: 3216 WiFi 6E Chip Antenna

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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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

ELECTRICAL SPECIFICATIONS

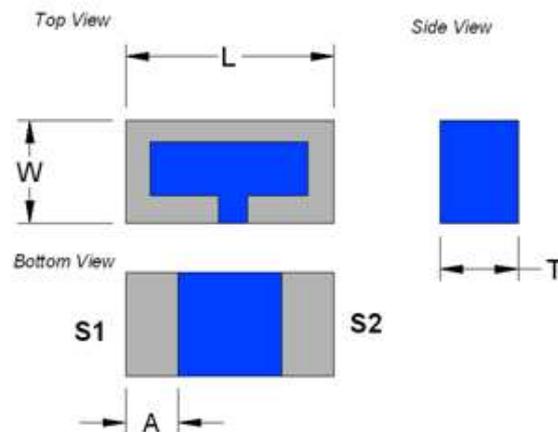
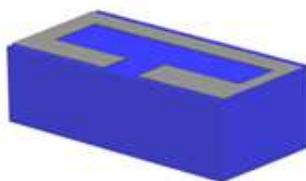
Working Frequency	2.4GHz / 5.15 ~ 7.125GHz
Bandwidth	84MHz / 2000MHz(Typ.)
Return Loss	< -7.0 dB
Polarization	Linear
Peak Gain	2.0 / 2.5 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C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

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	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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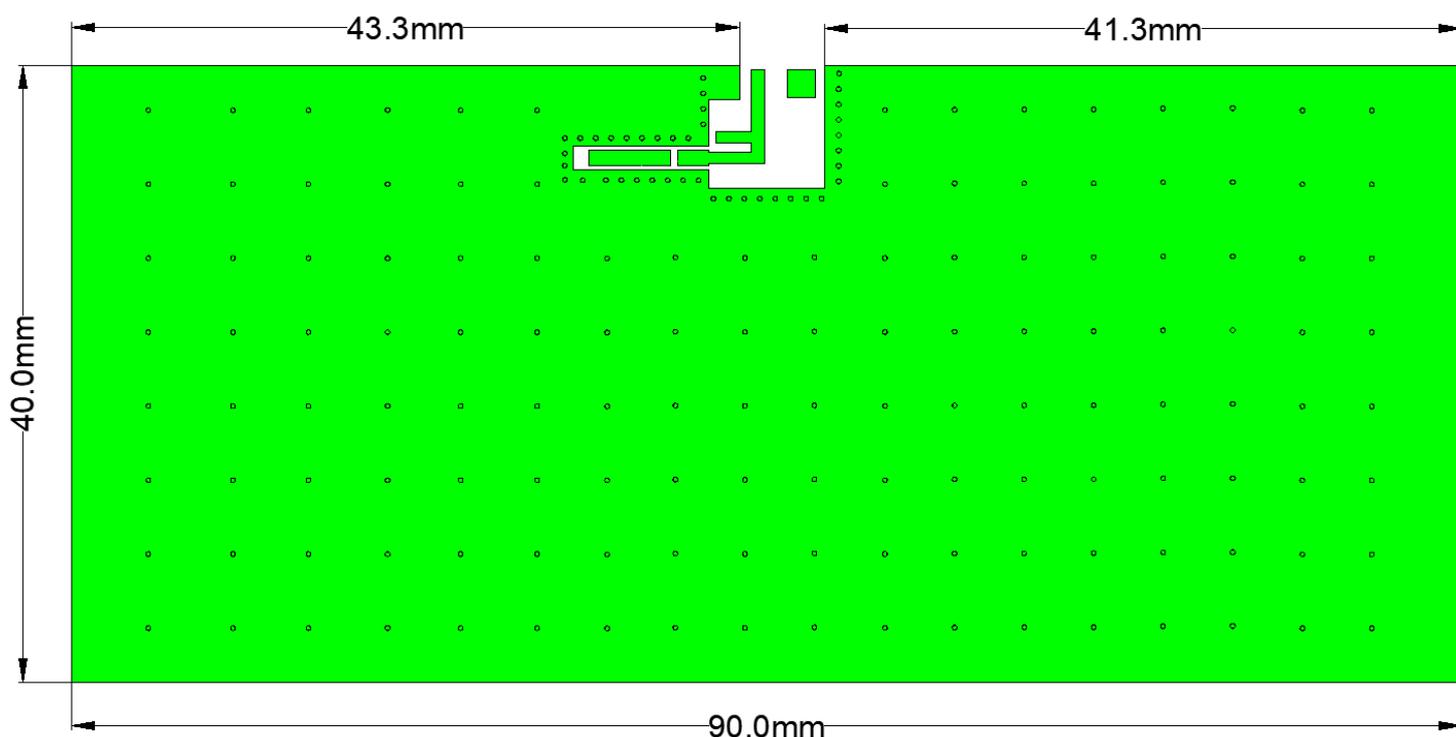
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Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

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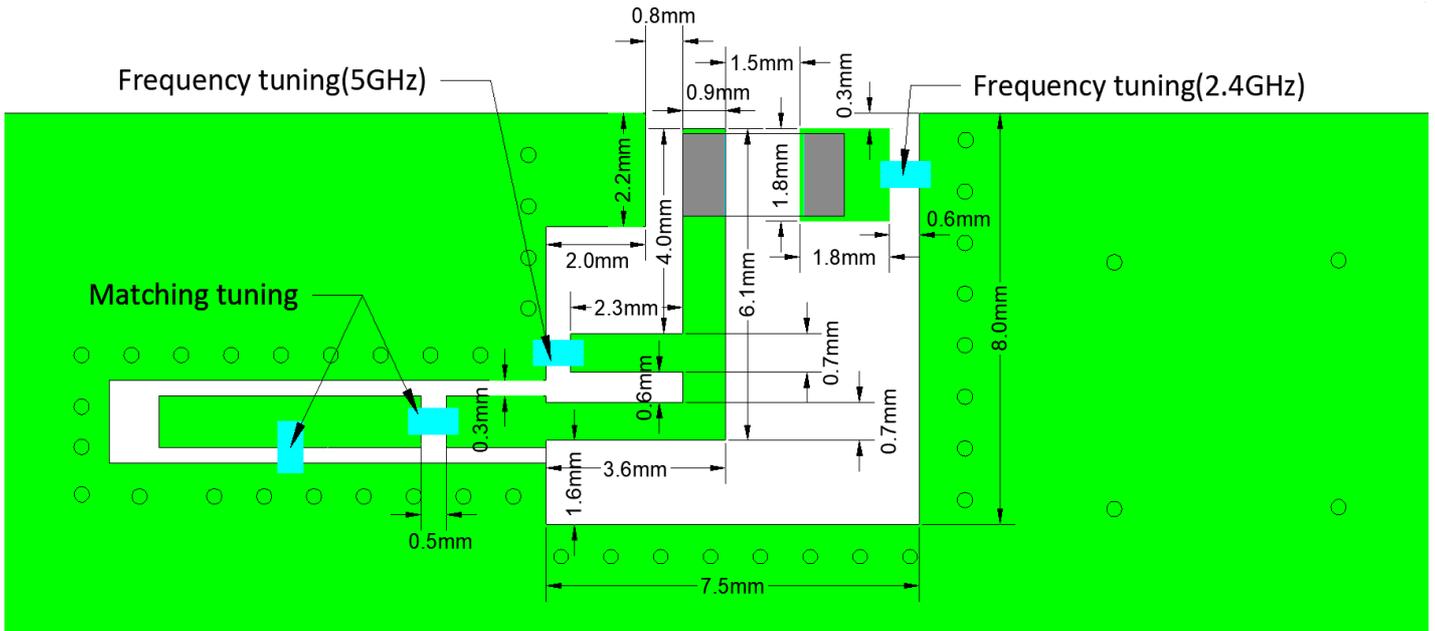
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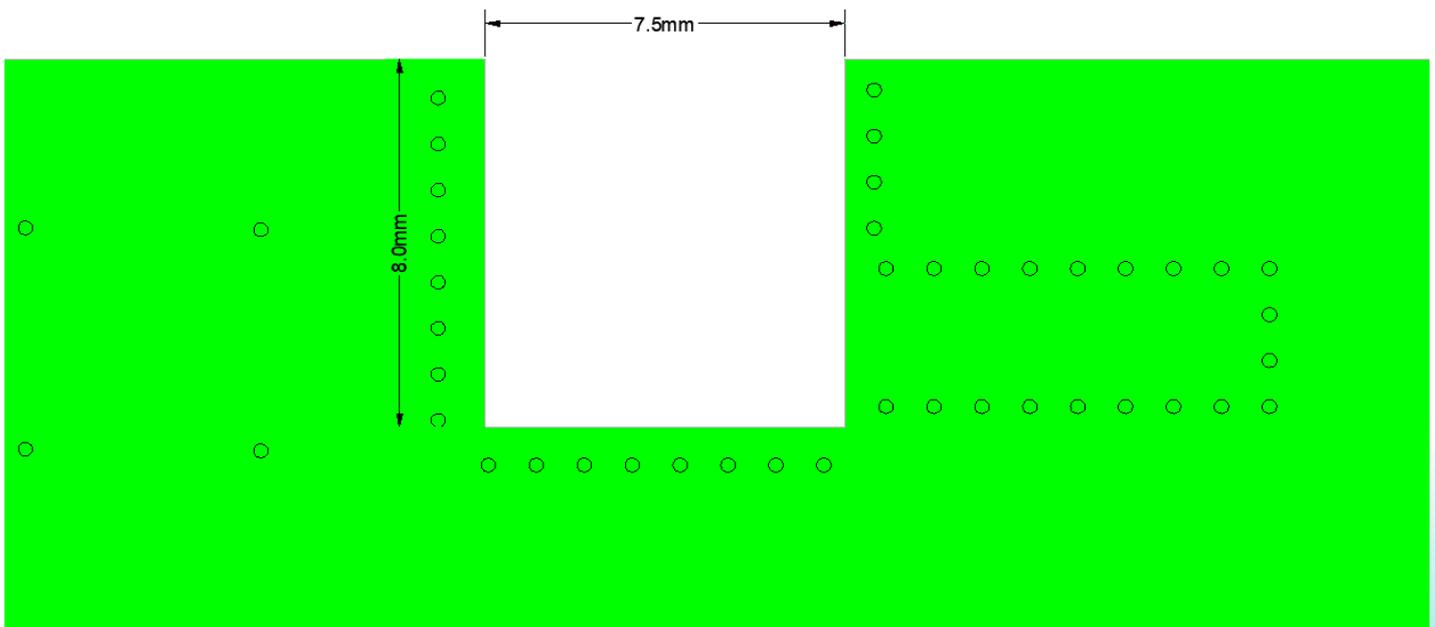
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Top Layer



Bottom Layer

Details of soldering Pad

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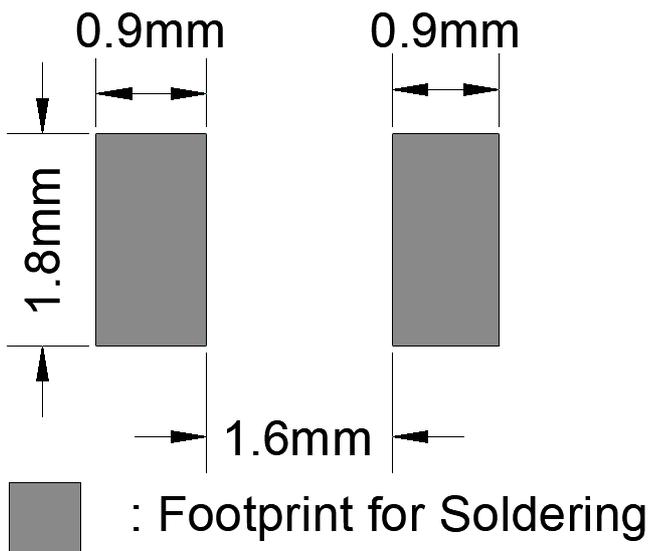
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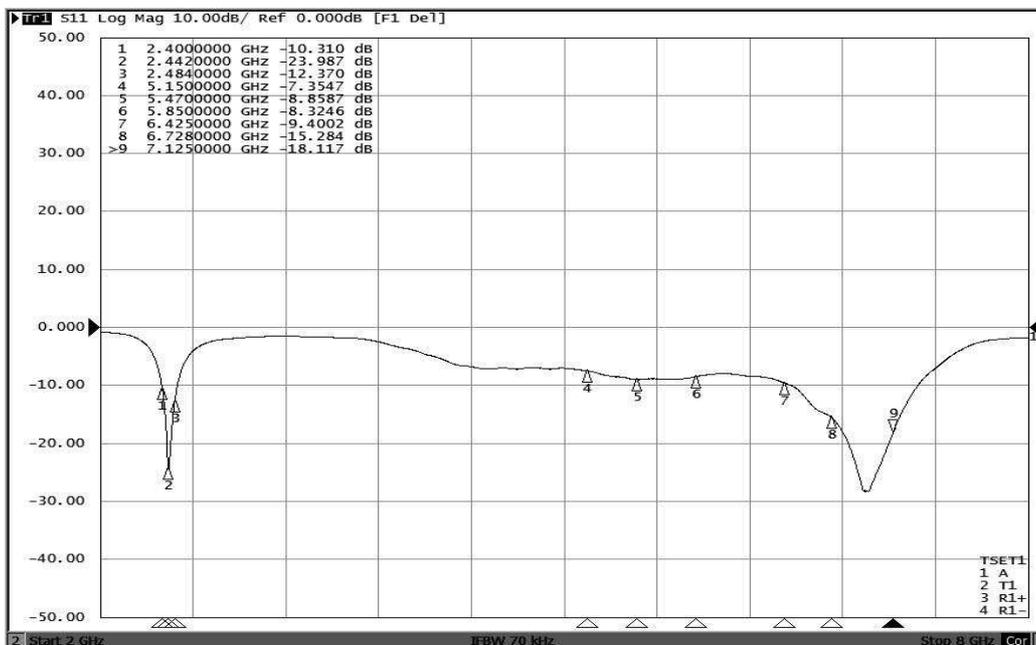
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Footprint



Return loss

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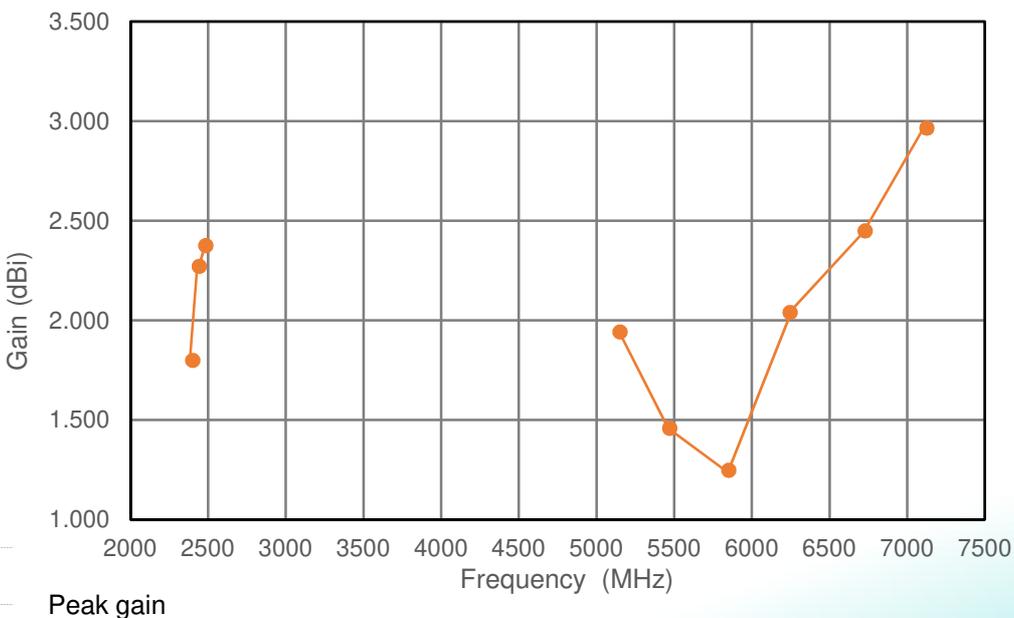
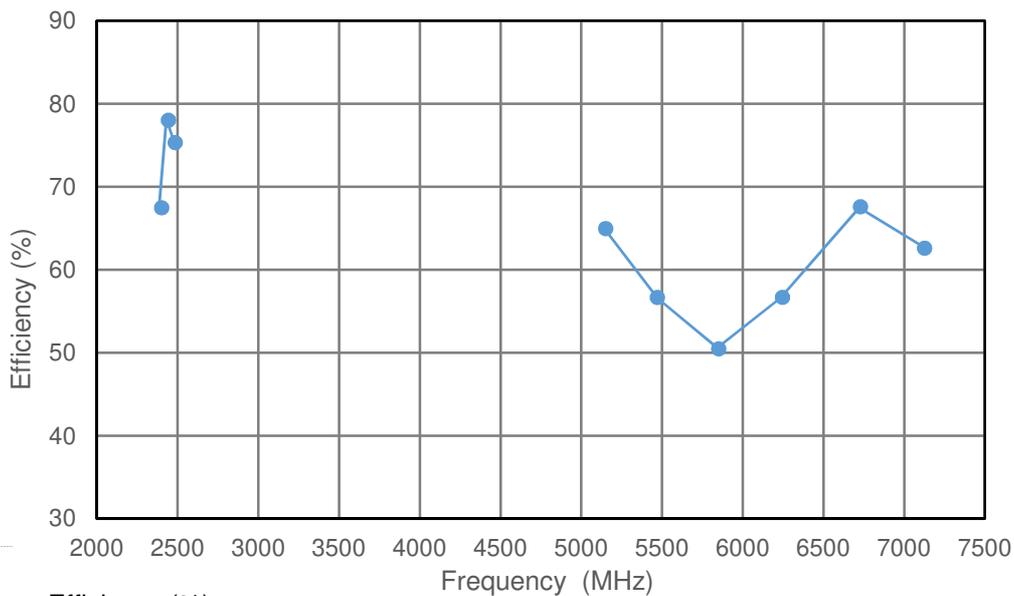
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Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



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

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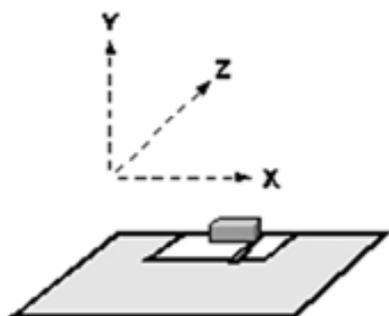
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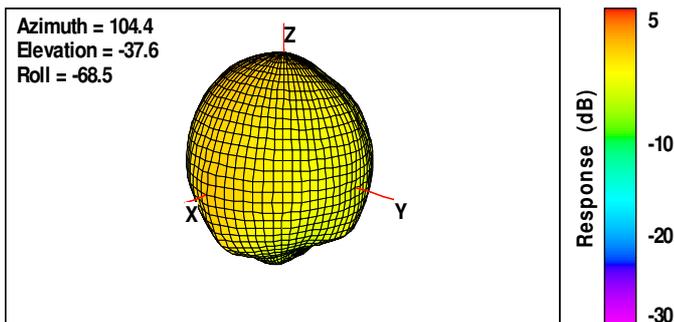
Description: 3216 WiFi 6E Chip Antenna

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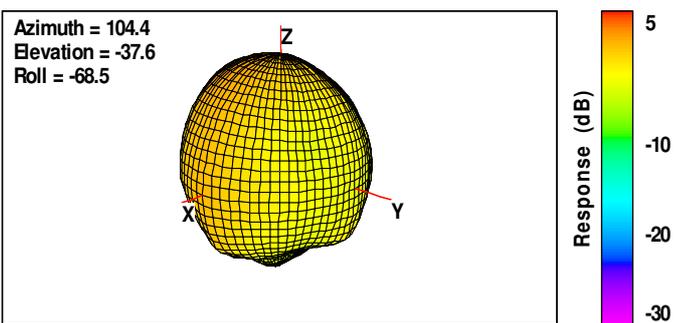
ELECTRICAL PERFORMANCES



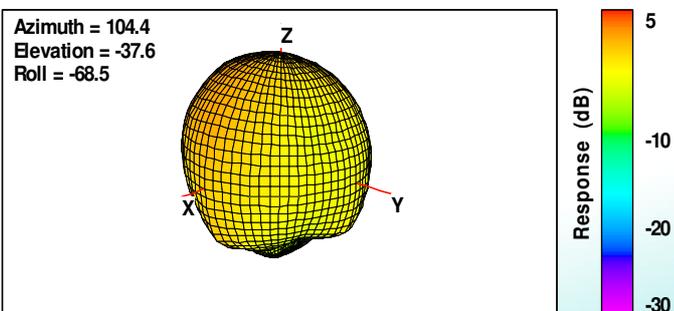
Evaluation board and XYZ direction



Frequency : 2.400 GHz
Efficiency : 67.4 %



Frequency : 2.442 GHz
Efficiency : 78.0 %



Frequency : 2.484 GHz
Efficiency : 75.3 %

Radiation pattern

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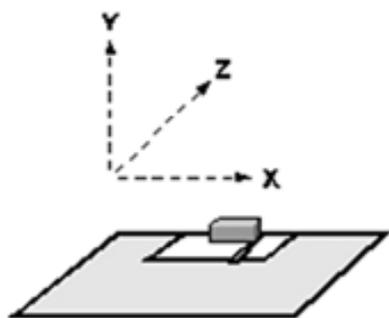
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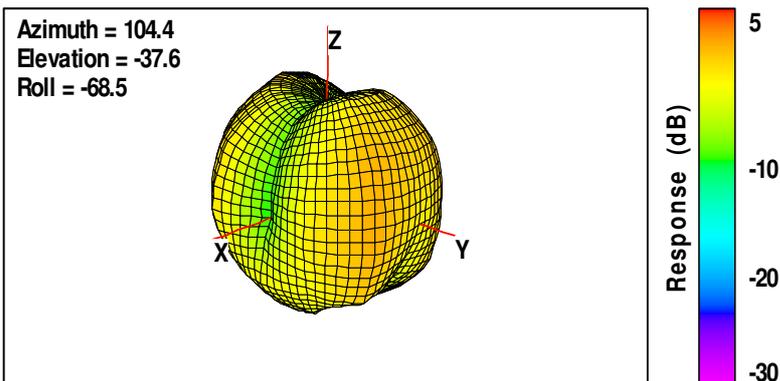
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PART NUMBER: ANT3216LL11R2460A

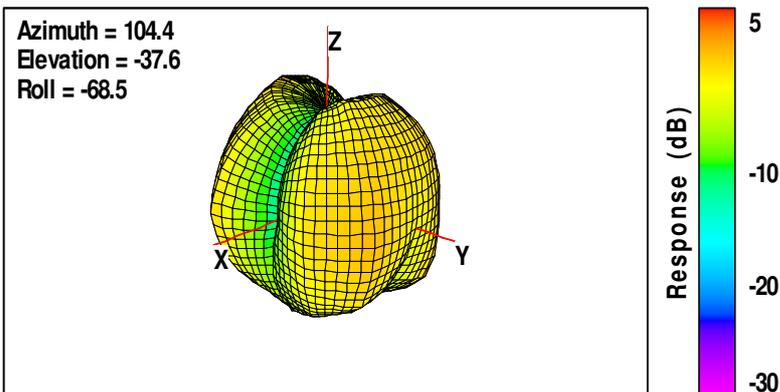
ELECTRICAL PERFORMANCES



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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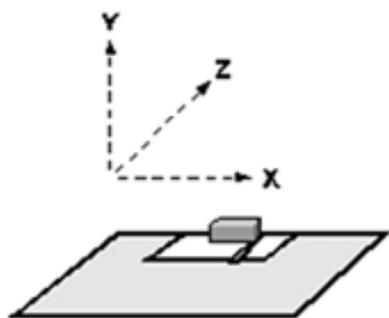
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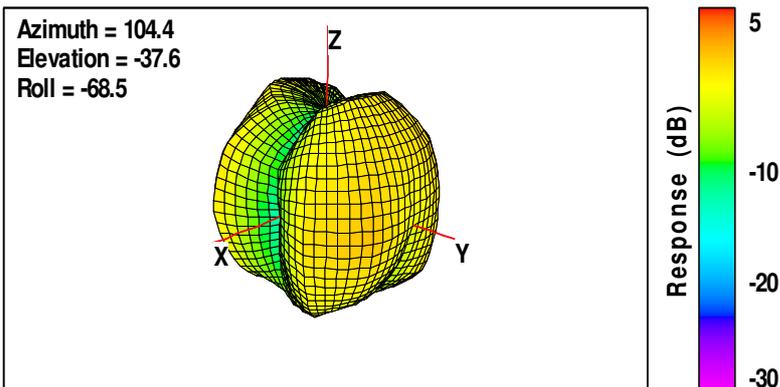
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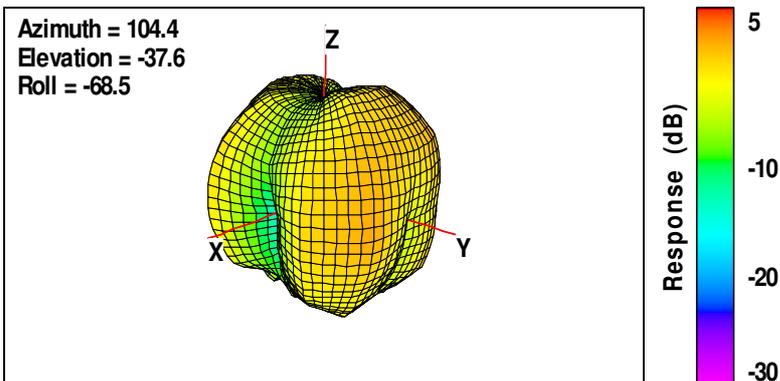
ELECTRICAL PERFORMANCES



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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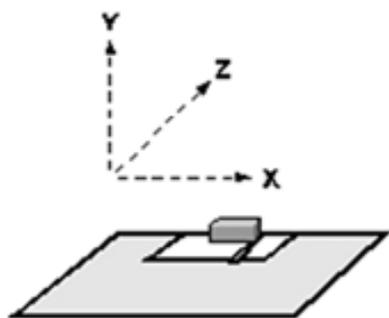
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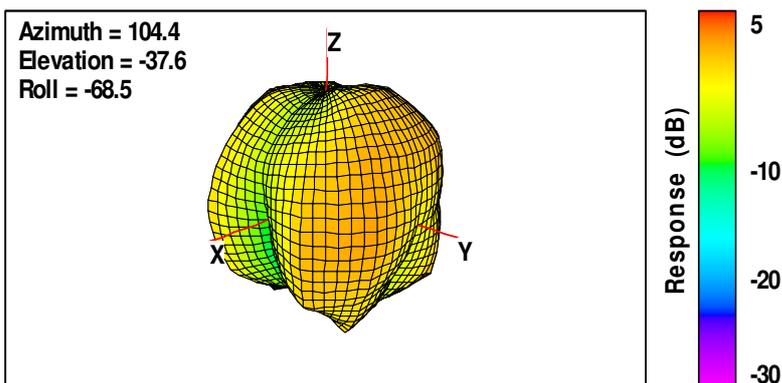
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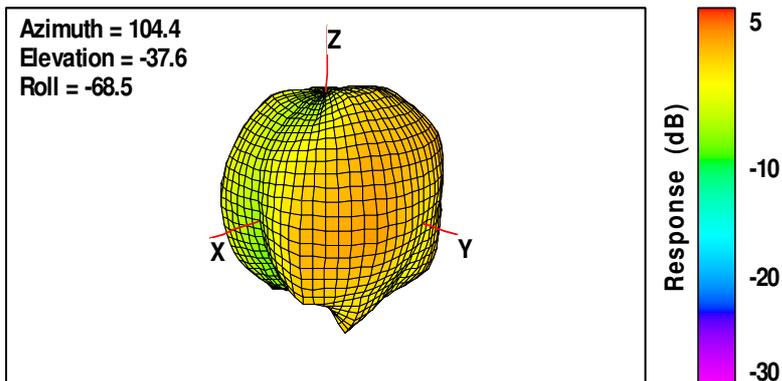
ELECTRICAL PERFORMANCES



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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Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REVISION HISTORY

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

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