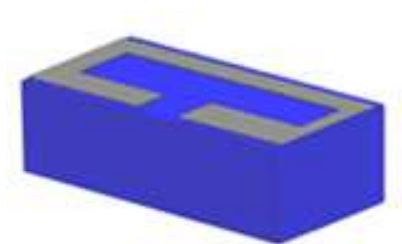


Description: 3216 WiFi 6E Chip Antenna

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

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

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For more information:



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Vancouver, WA 98683
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Pulse GmbH & Co, KG
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Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road (#29 Bldg, 4th Phase
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

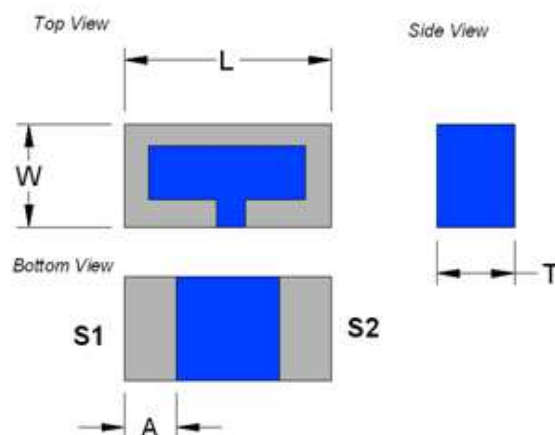
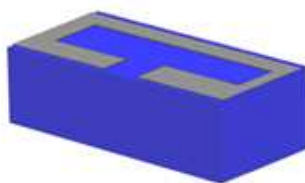
Working Frequency	2.4GHz / 5.15 ~ 7.125GHz
Bandwidth	84MHz / 2000MHz(Typ.)
Return Loss	< -7.0 dB
Polarization	Linear
Peak Gain	2.0 / 2.5 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 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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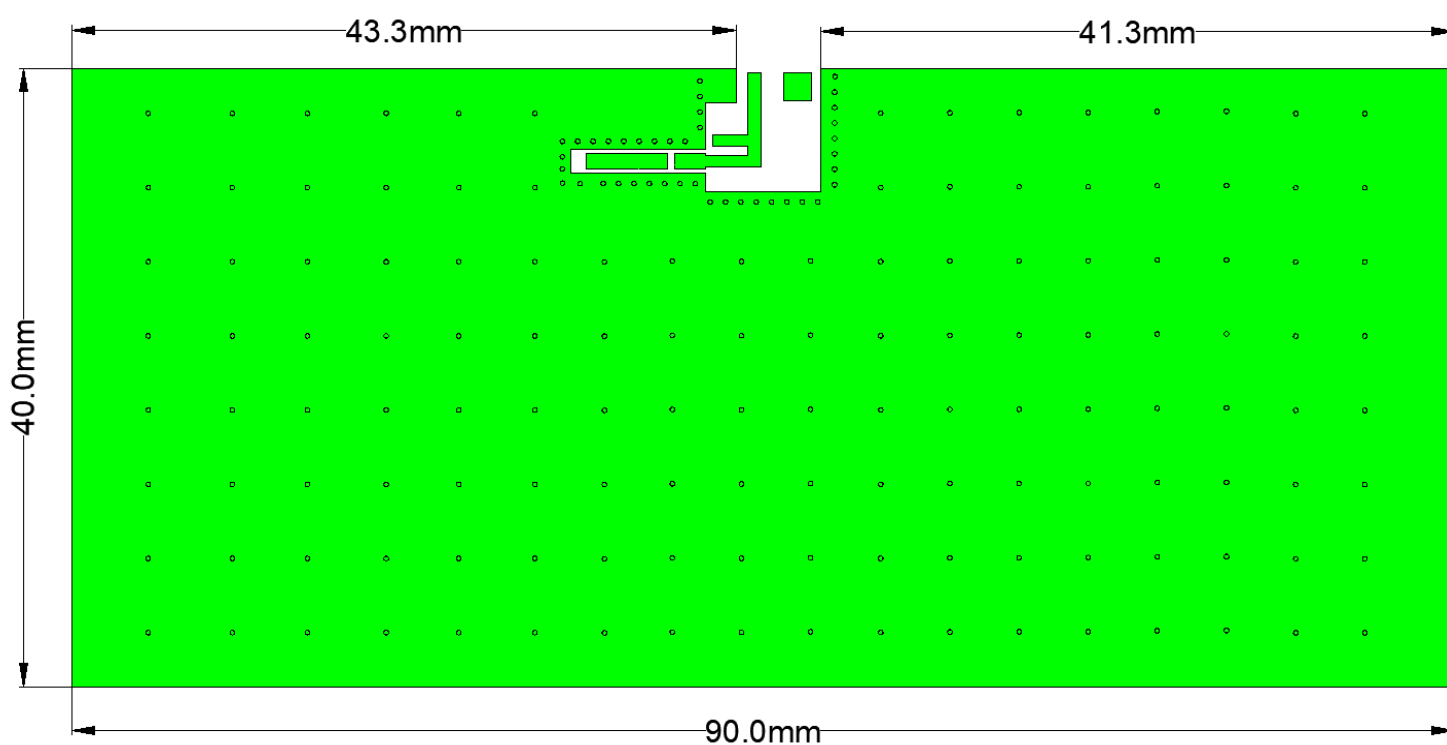
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Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

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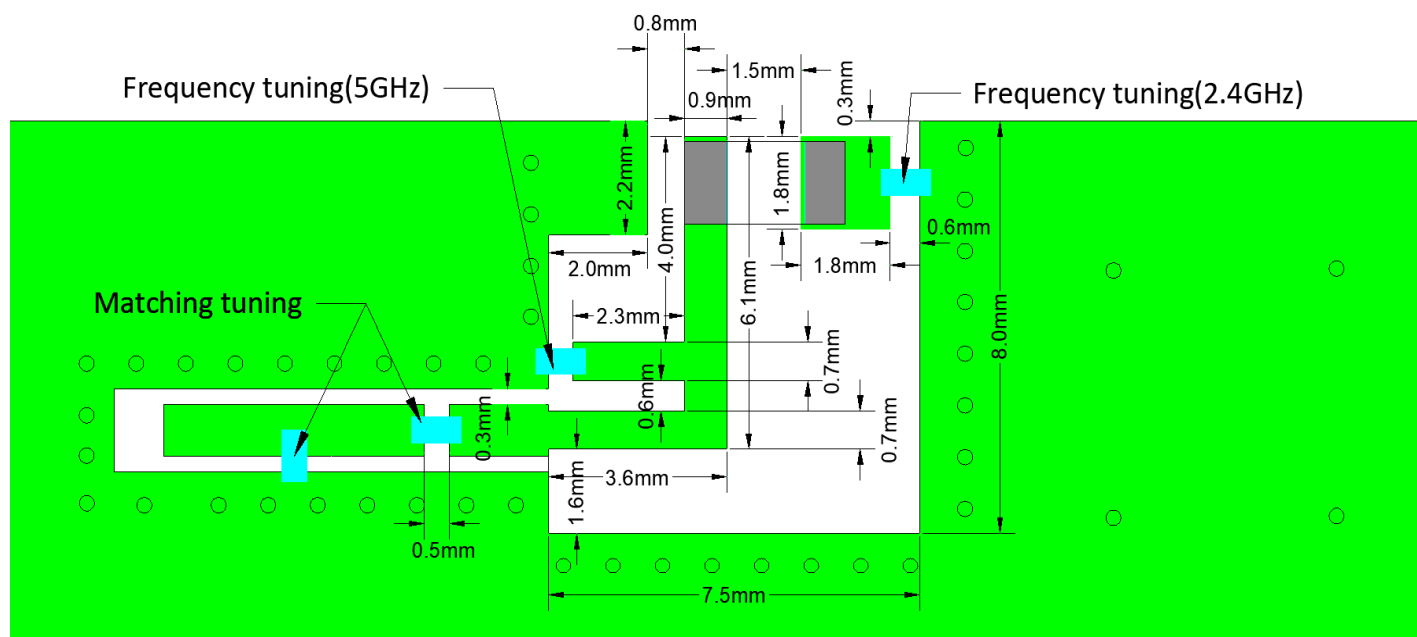
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 **RoHS**
Compliant

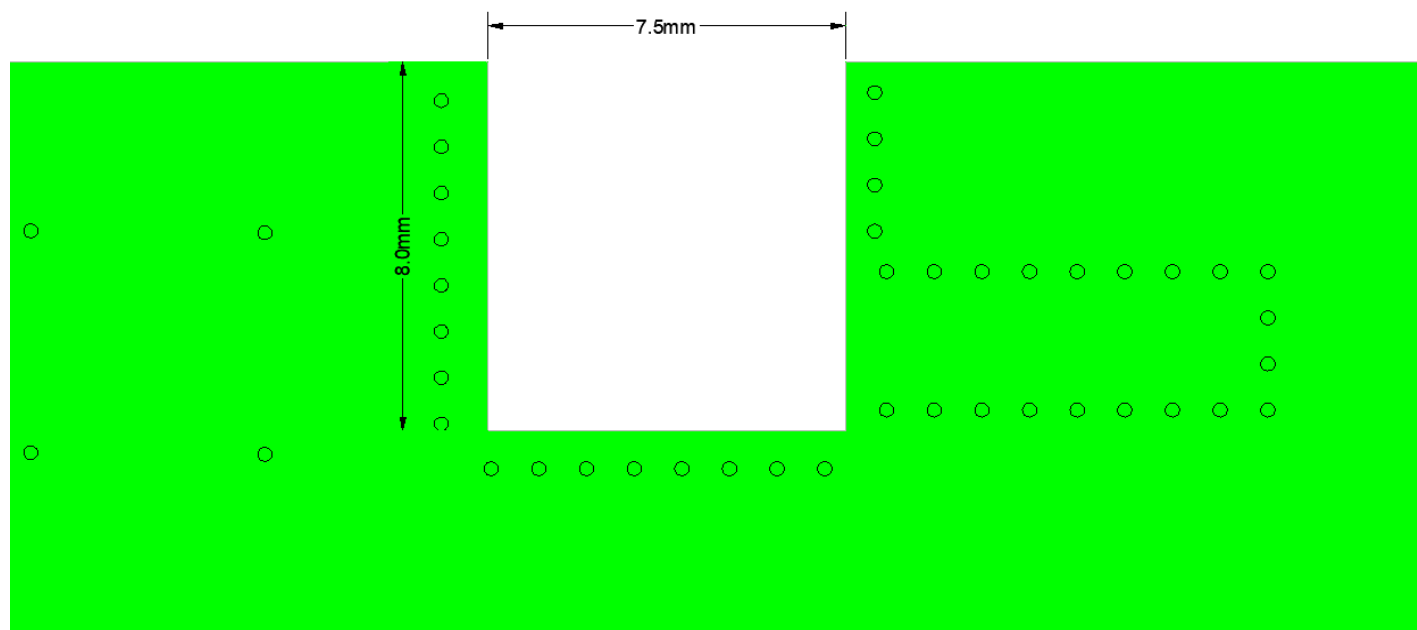
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Top Layer



Bottom Layer

Details of soldering Pad

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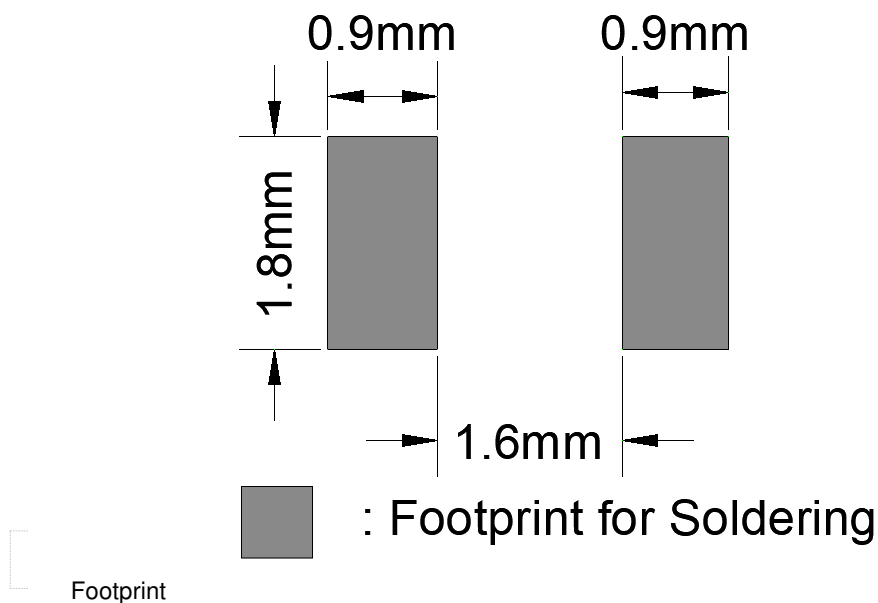
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ROHS

Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Return loss

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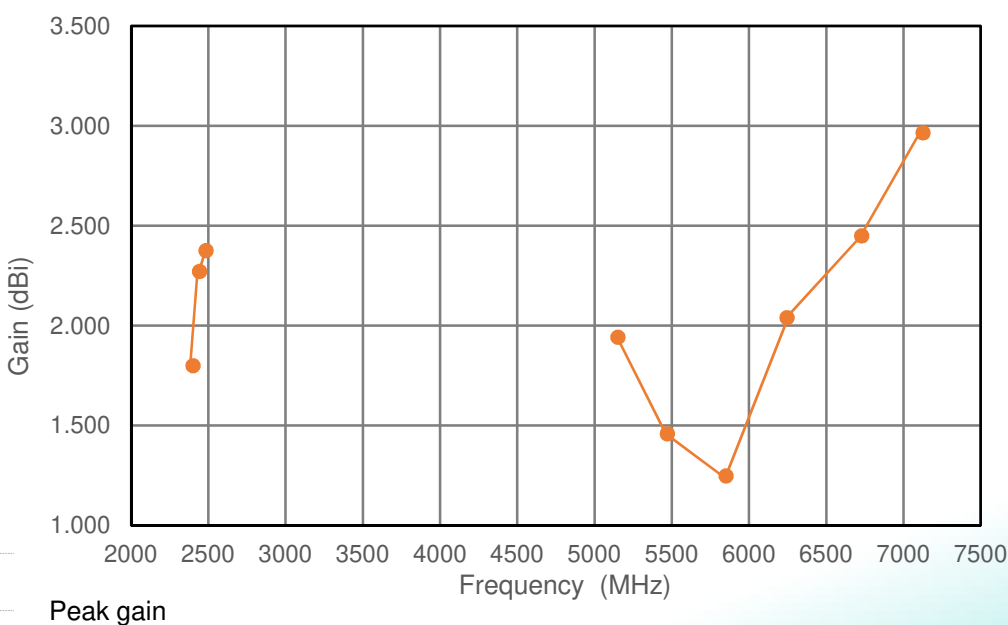
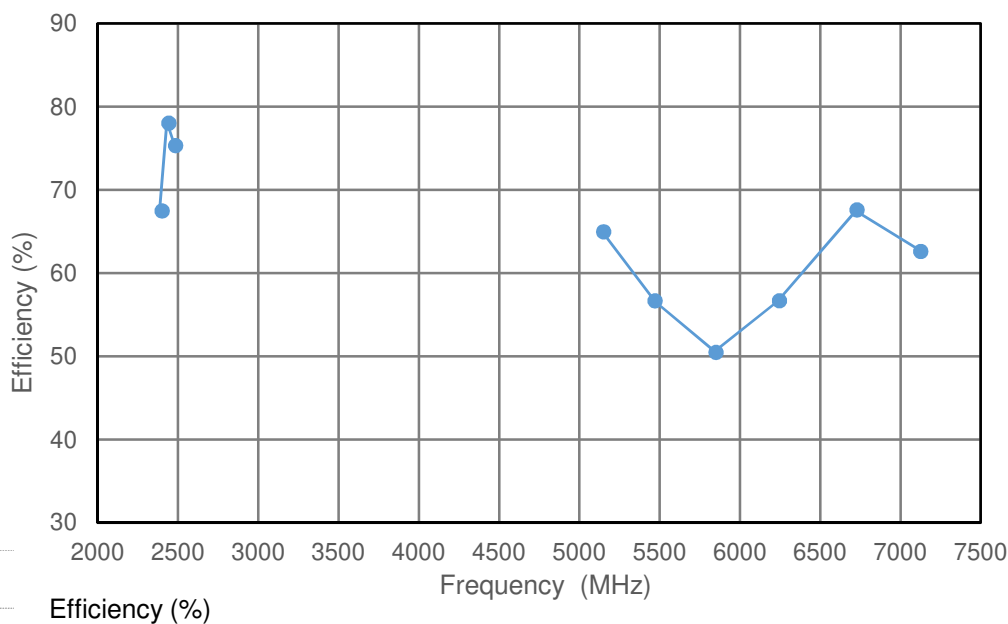
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Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

REFERENCE DESIGN OF EVALUATION BOARD



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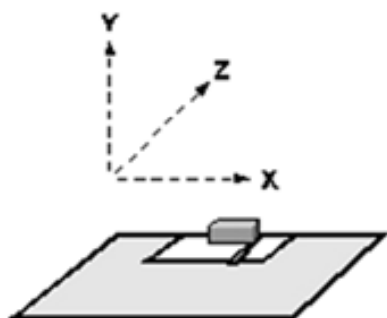
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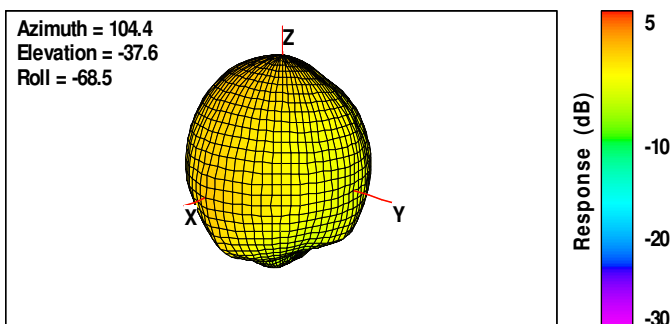
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

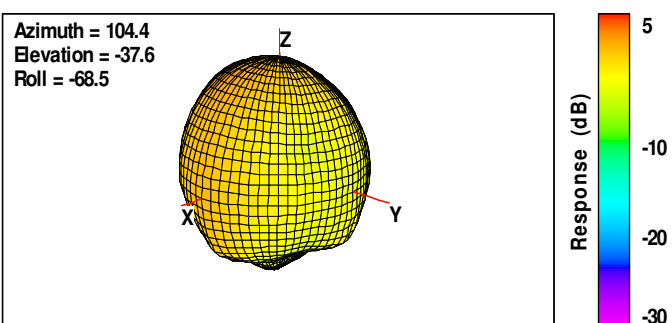
ELECTRICAL PERFORMANCES



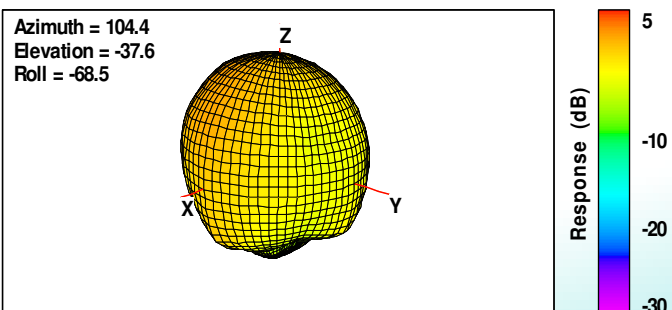
Evaluation board and XYZ direction



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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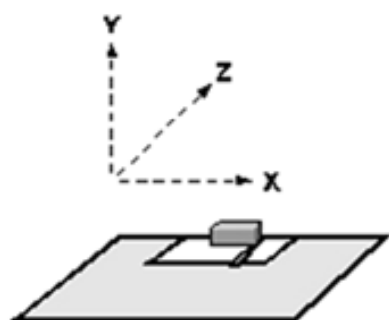
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Description: 3216 WiFi 6E Chip Antenna

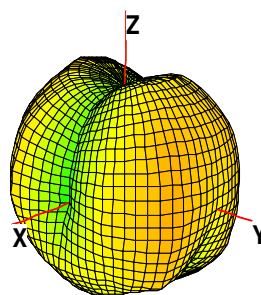
PART NUMBER: ANT3216LL11R2460A

ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction

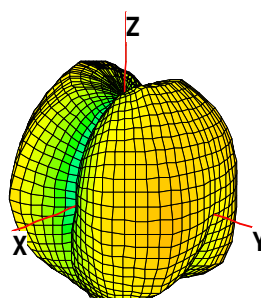
Azimuth = 104.4
Elevation = -37.6
Roll = -68.5



Response (dB)
5
-10
-20
-30

Frequency : 5.15 GHz
Efficiency : 64.9 %

Azimuth = 104.4
Elevation = -37.6
Roll = -68.5



Response (dB)
5
-10
-20
-30

Frequency : 5.47 GHz
Efficiency : 56.6 %



Radiation pattern

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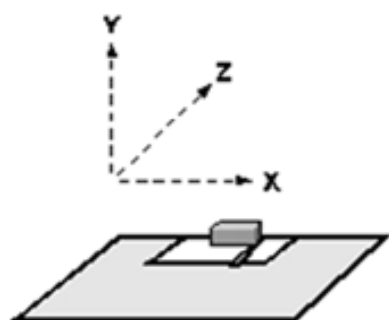
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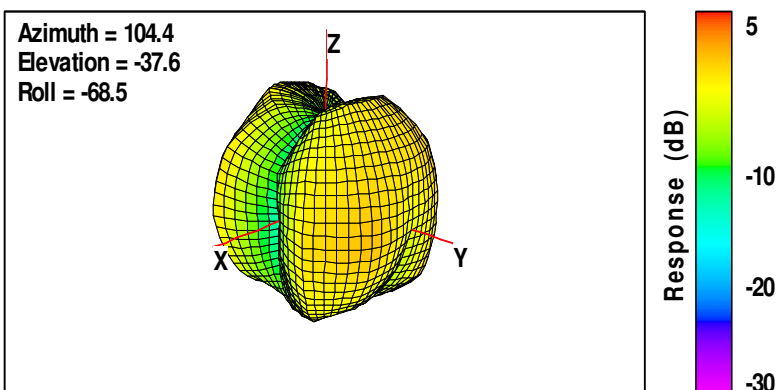
Description: 3216 WiFi 6E Chip Antenna

PART NUMBER: ANT3216LL11R2460A

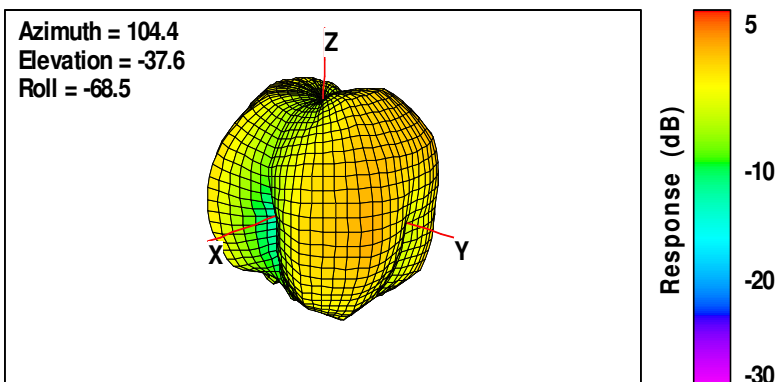
ELECTRICAL PERFORMANCES



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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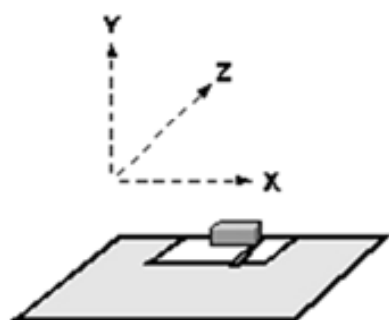
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Description: 3216 WiFi 6E Chip Antenna

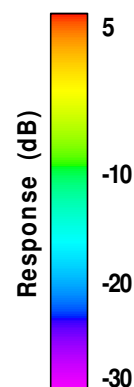
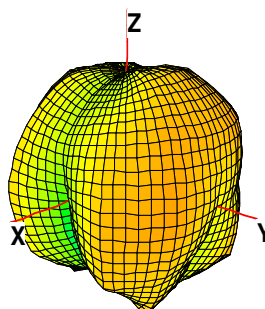
PART NUMBER: ANT3216LL11R2460A

ELECTRICAL PERFORMANCES



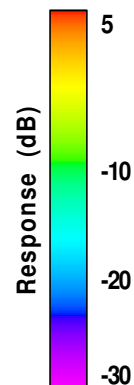
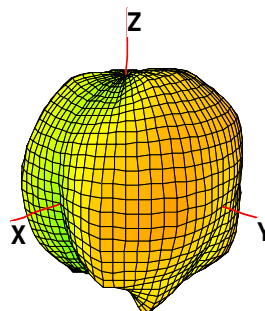
Evaluation board and XYZ direction

Azimuth = 104.4
Elevation = -37.6
Roll = -68.5



Frequency : 6.728 GHz
Efficiency : 67.6 %

Azimuth = 104.4
Elevation = -37.6
Roll = -68.5



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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