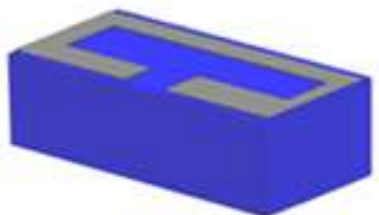


**Description: 3216 WiFi 6E Chip Antenna**

**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  
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Tel: 86 512 6807 9998

**Description: 3216 WiFi 6E Chip Antenna**

**PART NUMBER: ANT3216LL11R2460A**

**ELECTRICAL SPECIFICATIONS**

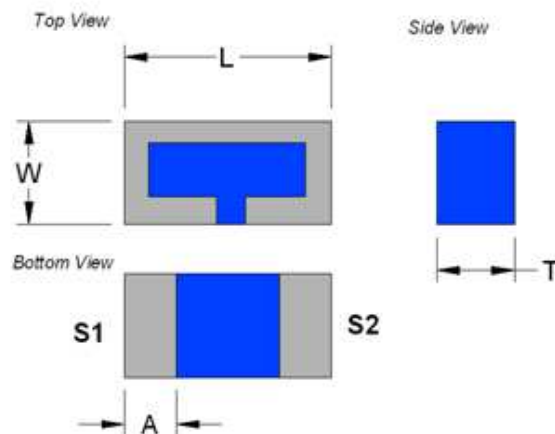
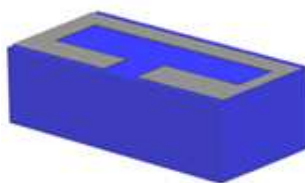
<b>Working Frequency</b>	2.4GHz / 5.15 ~ 7.125GHz
<b>Bandwidth</b>	84MHz / 2000MHz(Typ.)
<b>Return Loss</b>	< -7.0 dB
<b>Polarization</b>	Linear
<b>Peak Gain</b>	2.0 / 2.5 dBi(Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C
<b>Maximum Power</b>	1 W
<b>Termination</b>	Ni / Sn (Environmentally-Friendly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

**NOTE**

1. The specification is defined on Pulse evaluation board

**MECHANICAL DRAWING**

	<b>Dimension</b>
L (mm)	3.2 ±0.20
W (mm)	1.6 ±0.20
T (mm)	1.2 ±0.20
A (mm)	0.8 ±0.20



<b>Terminal name</b>	<b>Function</b>
S1	Feeding Point
S2	Soldering Point

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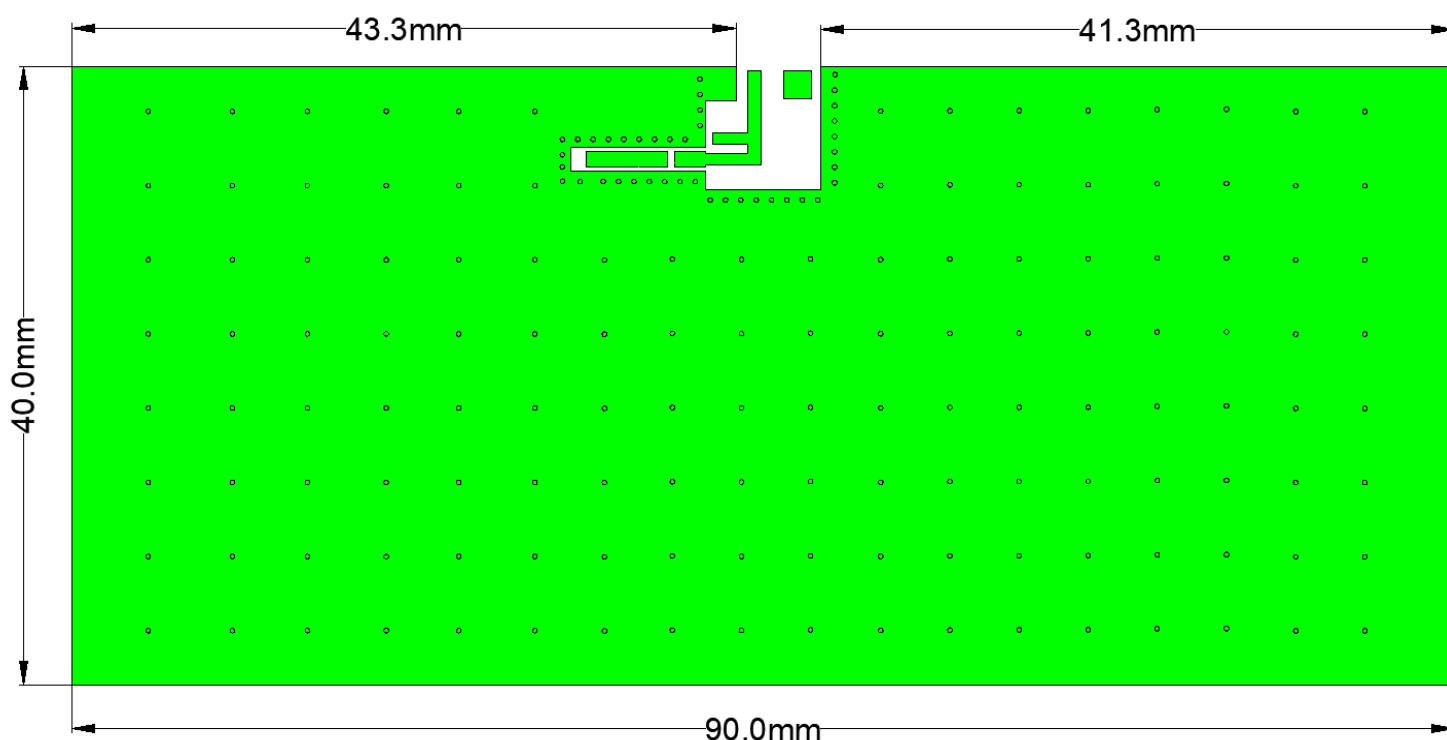
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**Description:** 3216 WiFi 6E Chip Antenna

**PART NUMBER:** ANT3216LL11R2460A

**REFERENCE DESIGN OF EVALUATION BOARD**



Outlook and dimension of evaluation board

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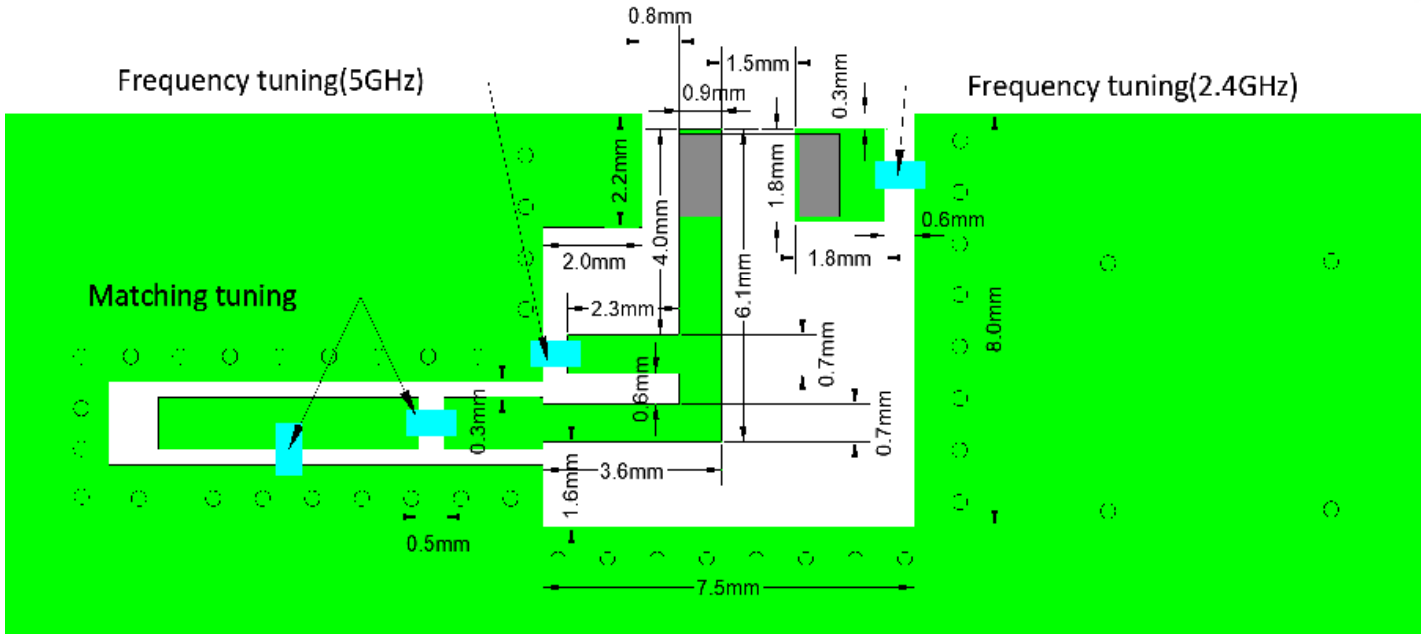
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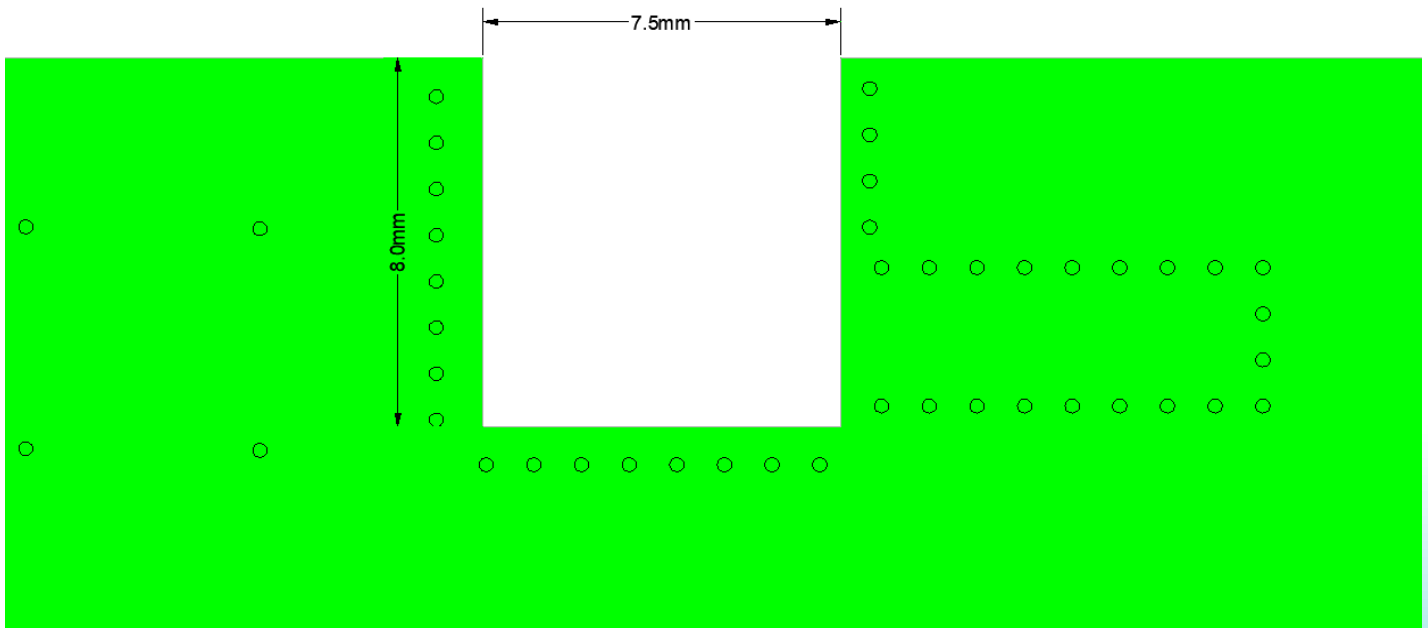
**Description: 3216 WiFi 6E Chip Antenna**

**PART NUMBER: ANT3216LL11R2460A**

**REFERENCE DESIGN OF EVALUATION BOARD**



**Top Layer**



**Bottom Layer**

**Details of soldering Pad**

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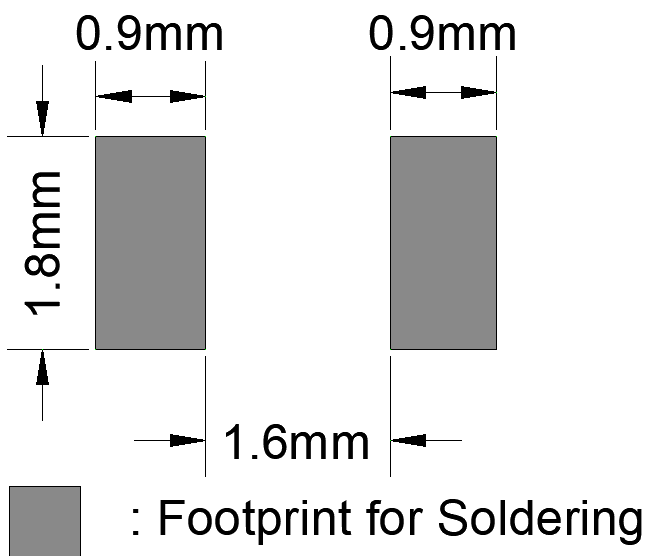
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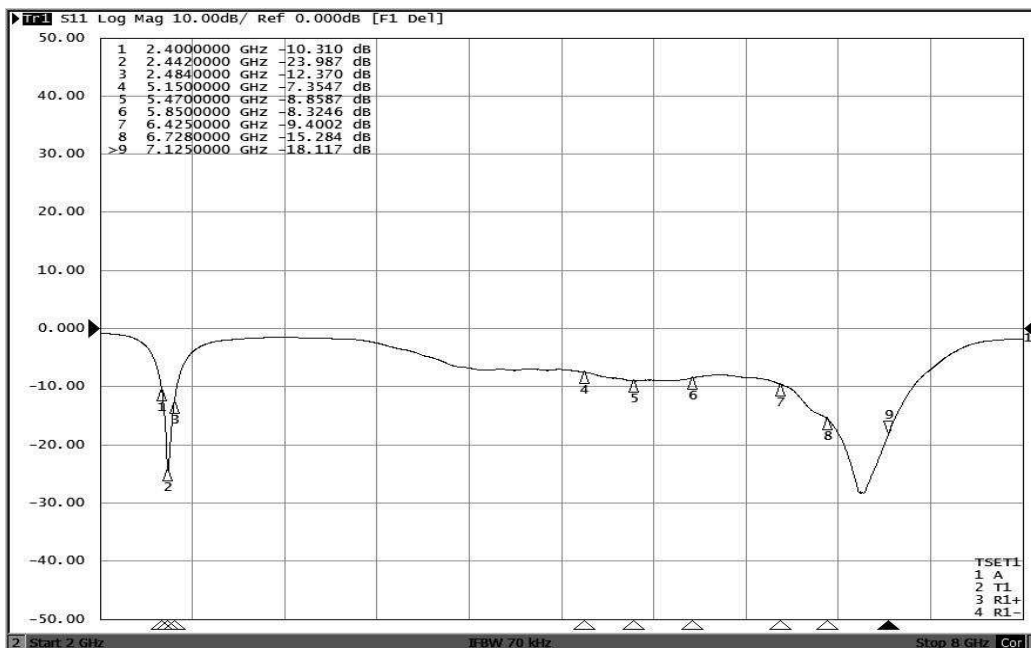
**Description: 3216 WiFi 6E Chip Antenna**

**PART NUMBER: ANT3216LL11R2460A**

**REFERENCE DESIGN OF EVALUATION BOARD**



Footprint



Return loss

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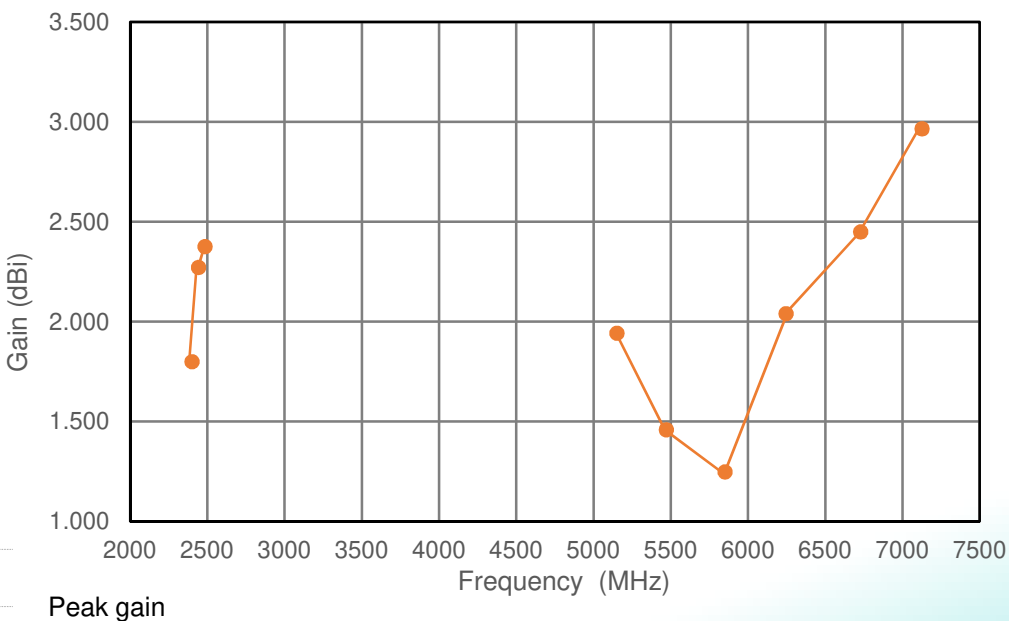
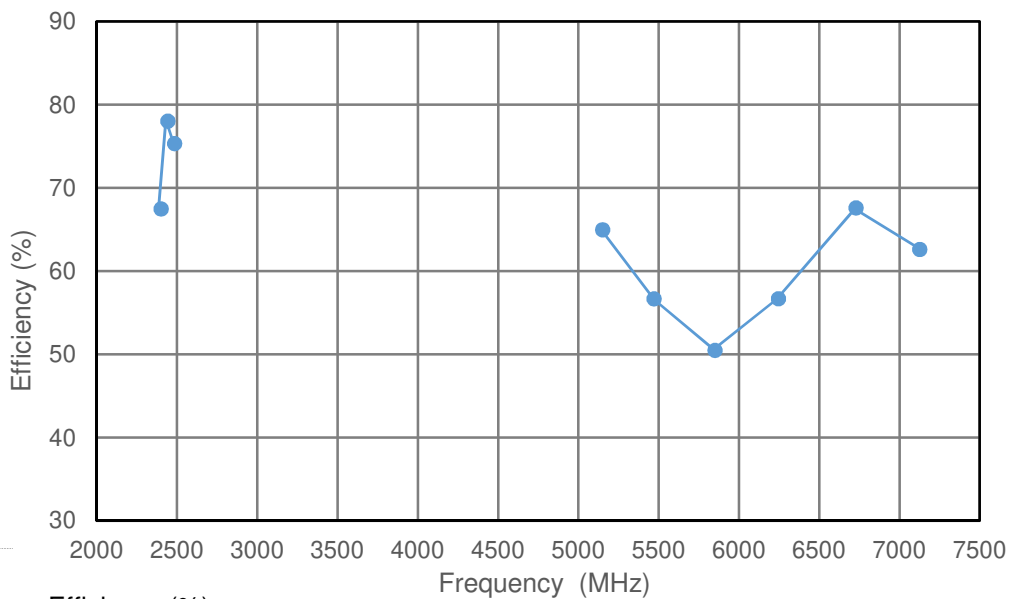
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**Description: 3216 WiFi 6E Chip Antenna**

**PART NUMBER: ANT3216LL11R2460A**

**REFERENCE DESIGN OF EVALUATION BOARD**



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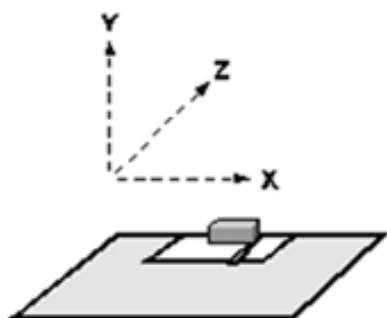
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**Description: 3216 WiFi 6E Chip Antenna**

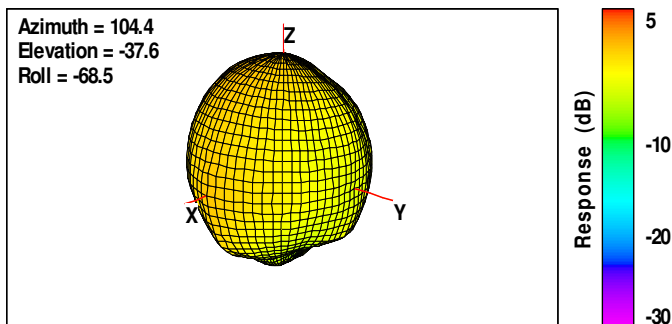
**PART NUMBER: ANT3216LL11R2460A**

**ELECTRICAL PERFORMANCES**

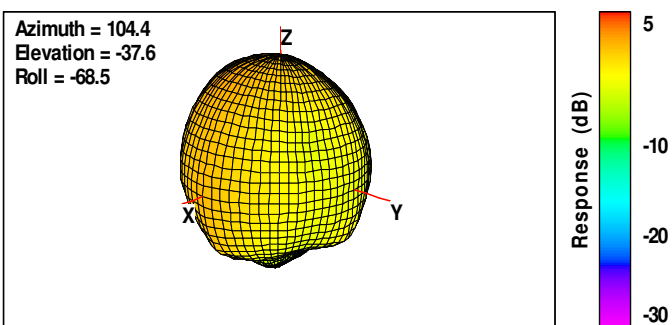


Evaluation board and XYZ direction

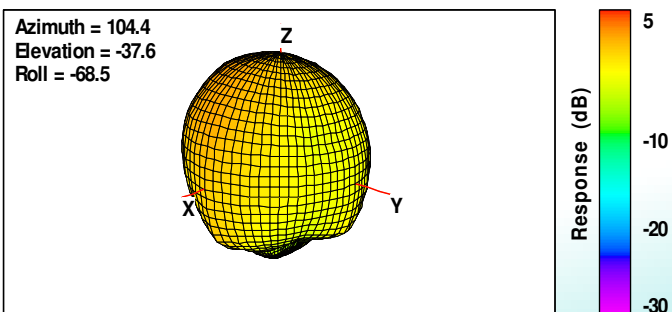
Radiation pattern



Frequency : 2.400 GHz  
Efficiency : 67.4 %



Frequency : 2.442 GHz  
Efficiency : 78.0 %



Frequency : 2.484 GHz  
Efficiency : 75.3 %

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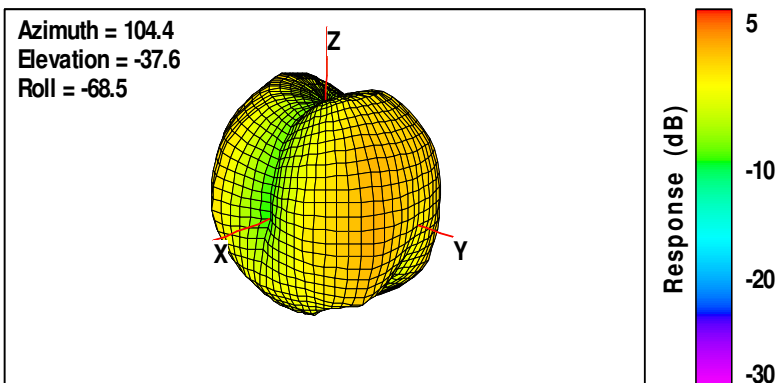
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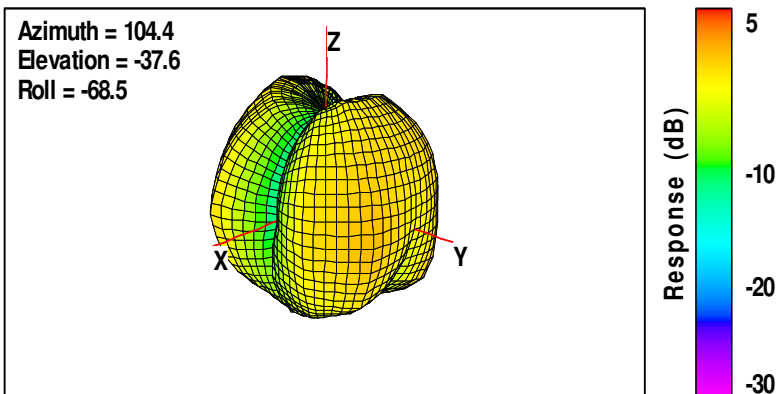
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**PART NUMBER:** ANT3216LL11R2460A

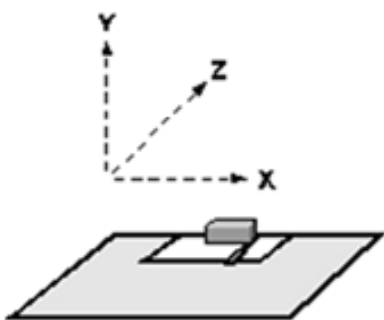
**ELECTRICAL PERFORMANCES**



Frequency : 5.15 GHz  
Efficiency : 64.9 %



Frequency : 5.47 GHz  
Efficiency : 56.6 %



Evaluation board and XYZ direction

Radiation pattern

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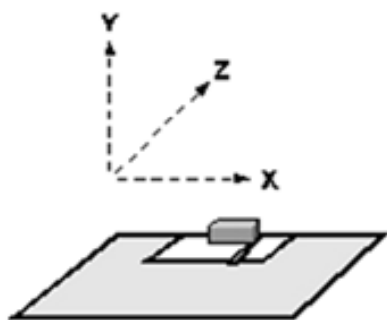
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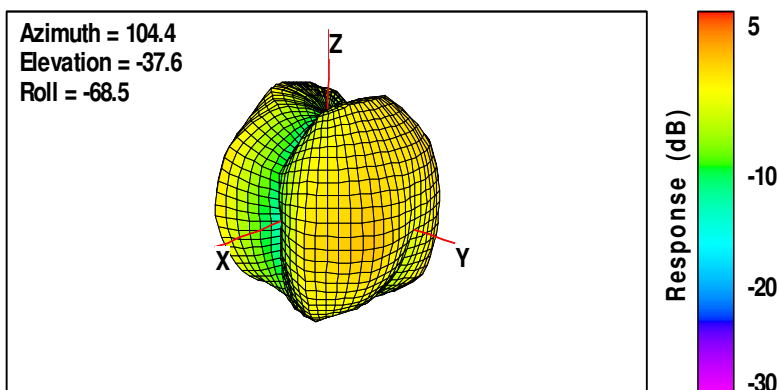
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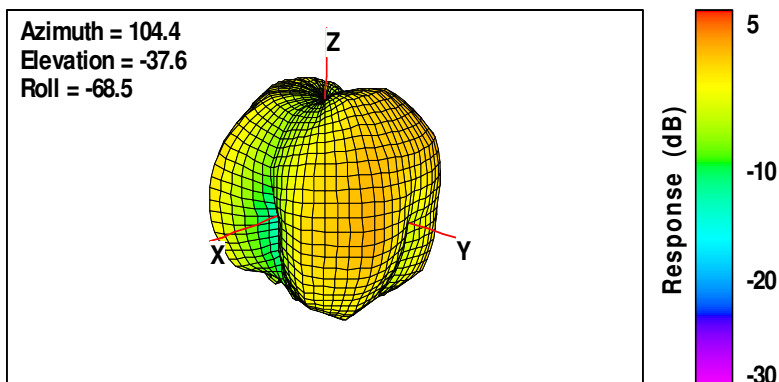
**ELECTRICAL PERFORMANCES**



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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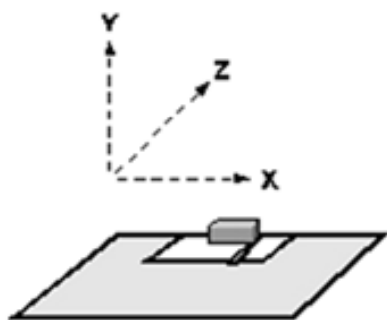
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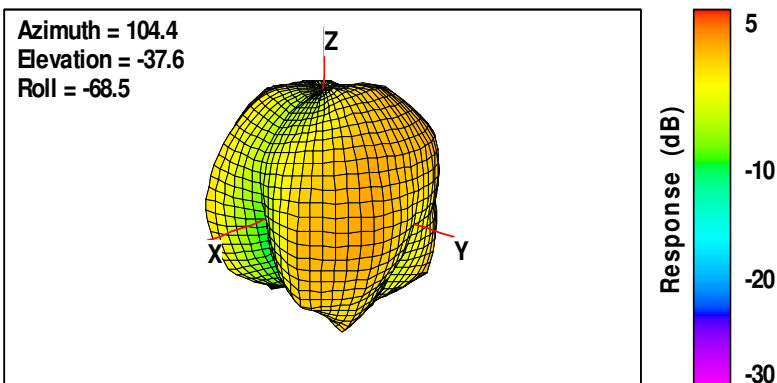
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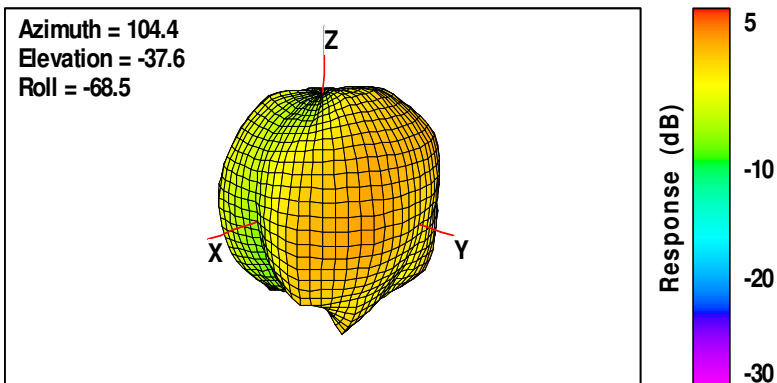
**ELECTRICAL PERFORMANCES**



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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