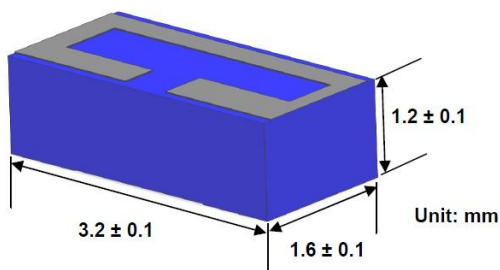


Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

Features:

- Size : 3.2x1.6x1.2 mm
- Working Frequency : 2.4~2.5GHz
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

- 2.4GHz WiFi device
- Bluetooth gadget
- Zigbee 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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Suzhou New District
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Tel: 86 512 6807 9998



Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

ELECTRICAL SPECIFICATIONS

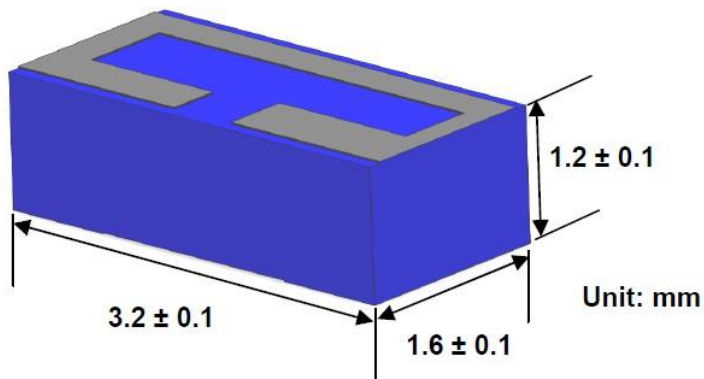
Working Frequency	2.45 GHz
Bandwidth	230 MHz(Typ.)
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.68 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 $^{\circ}\text{C}$, 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	3.2 ± 0.10
W (mm)	1.6 ± 0.10
T (mm)	1.2 ± 0.10



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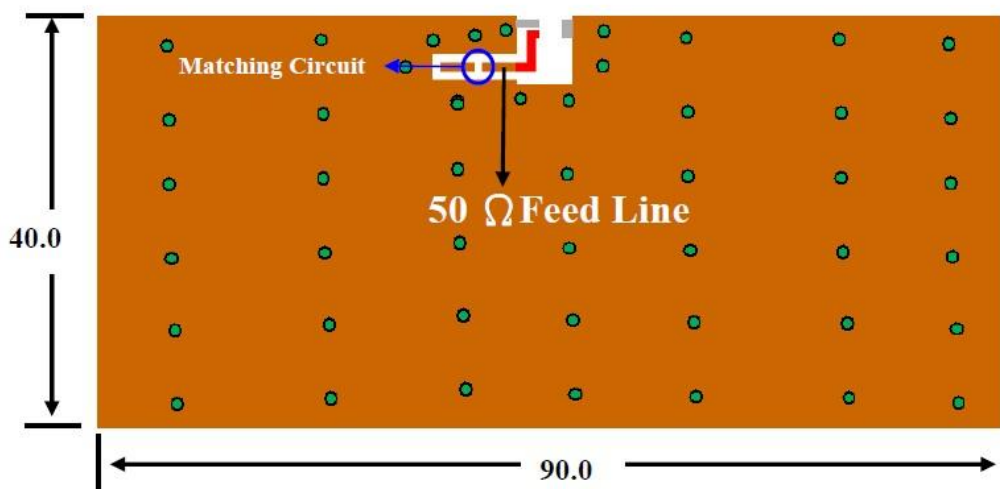
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Description: 3216 2.4G Chip Antenna

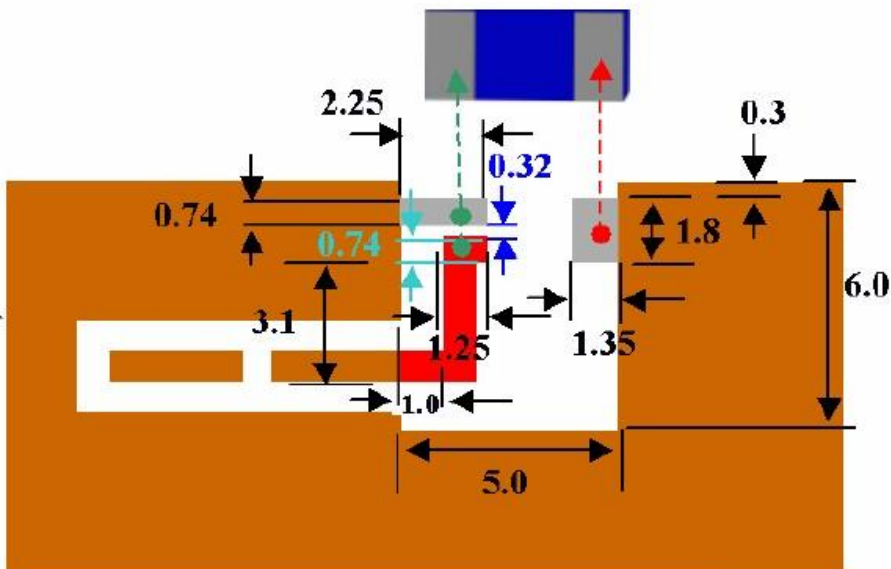
PART NUMBER: ANT3216LL11R2400A

REFERENCE DESIGN OF EVALUATION BOARD



■ Copper
 ● Ground via hole
 ■ Feed contact
 ■ Ground contact
 Unit: mm

Outlook and dimension of evaluation board



Unit: mm

Details of soldering Pad

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

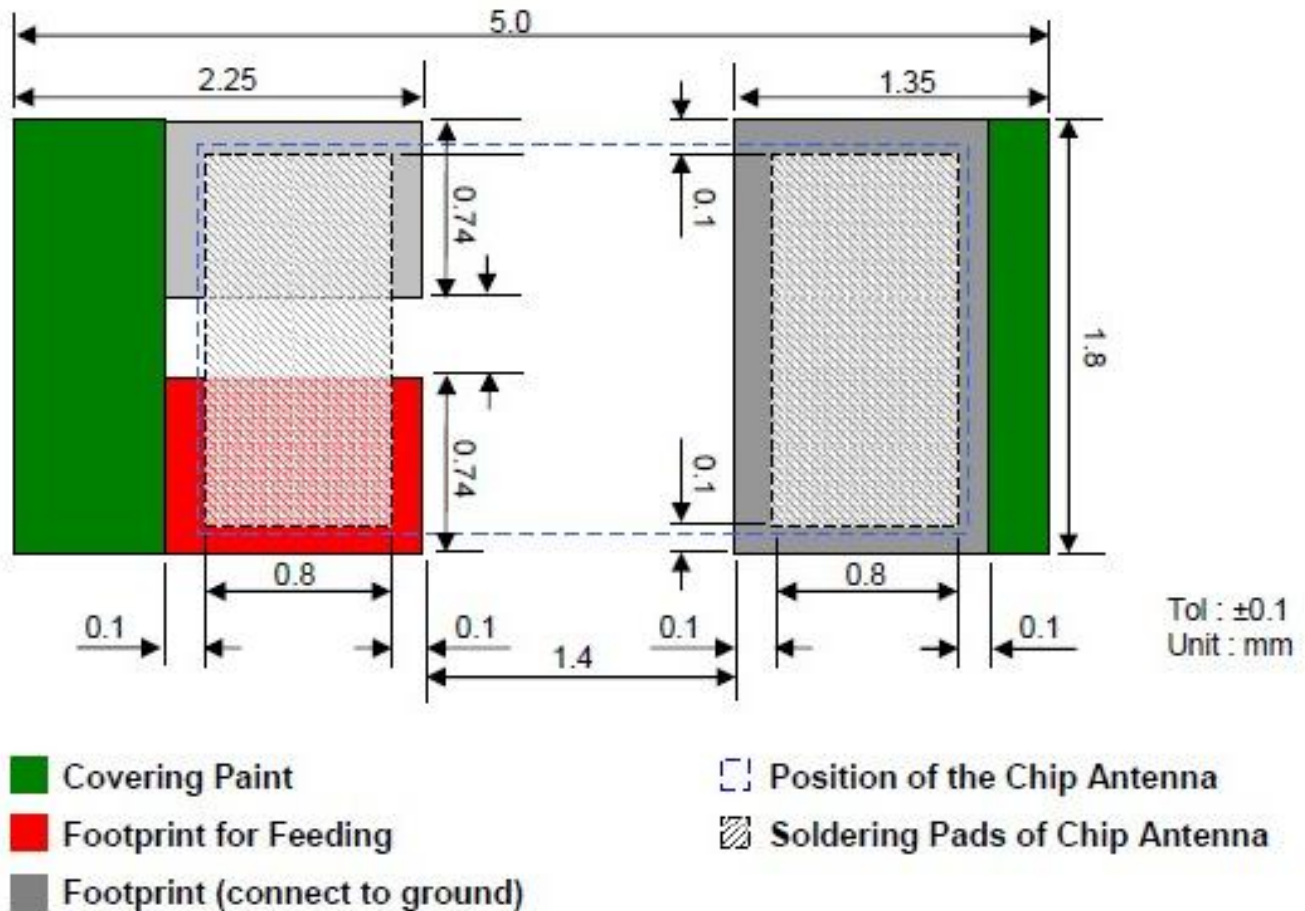
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Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

REFERENCE DESIGN OF EVALUATION BOARD



Soldering Pads Dimension and Footprint

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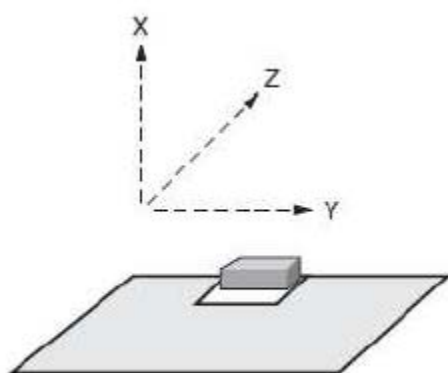
Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

ELECTRICAL PERFORMANCES

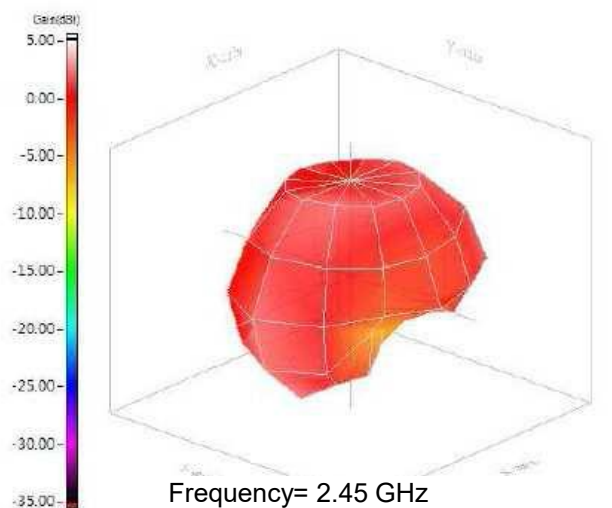


Return loss



Evaluation board and XYZ direction

Radiation pattern



Frequency= 2.45 GHz
Max gain = 3.68 dBi, at (120,180)
MEG (mean effective gain)= -0.47 dBi
Directivity (dB) = 4.29
Efficiency = -0.61 dB, 86.89 %

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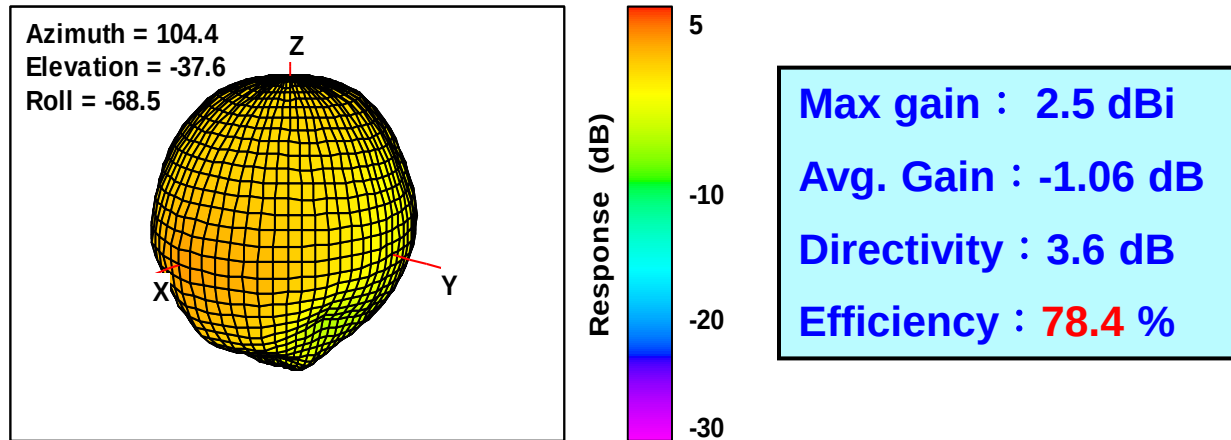
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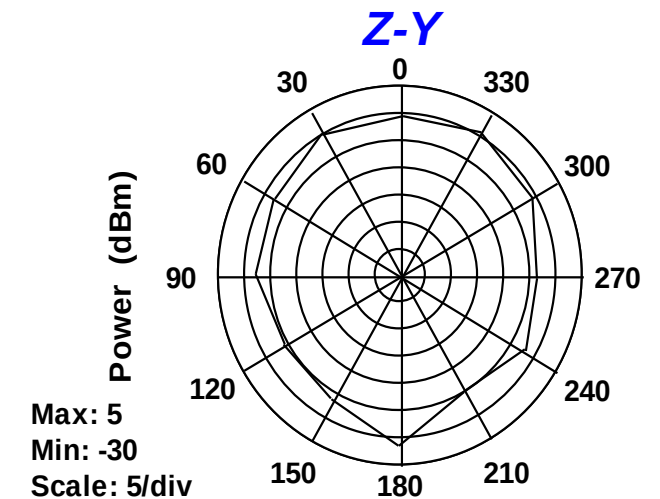
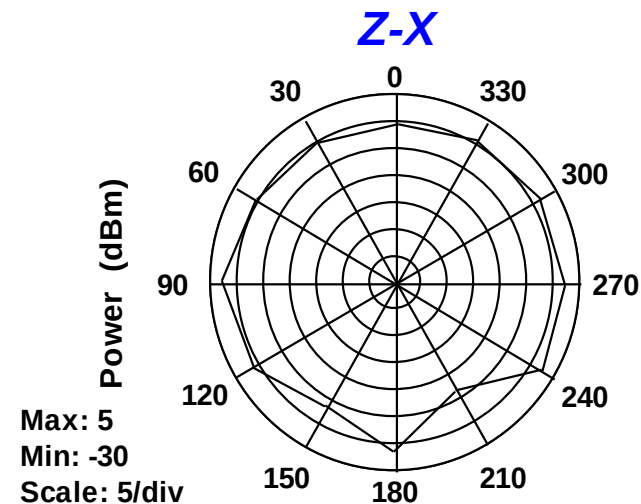
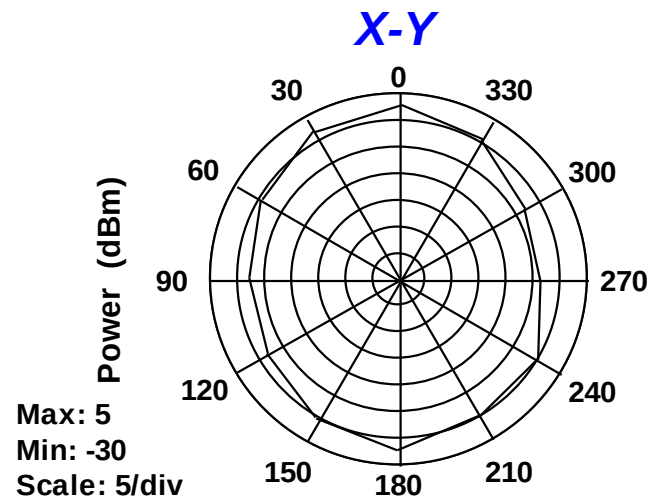
Antenna Performance

2400 MHz

3D Gain

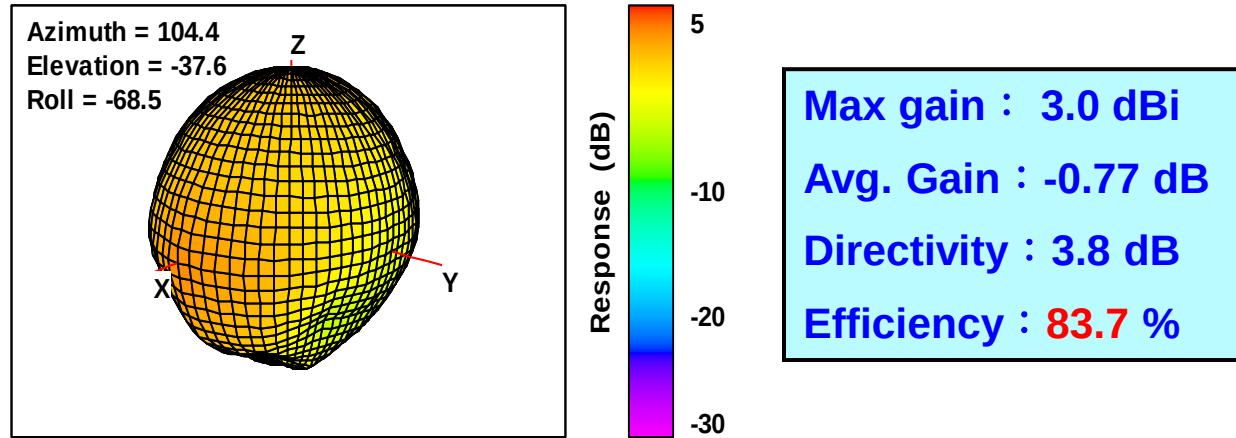


2D Gain

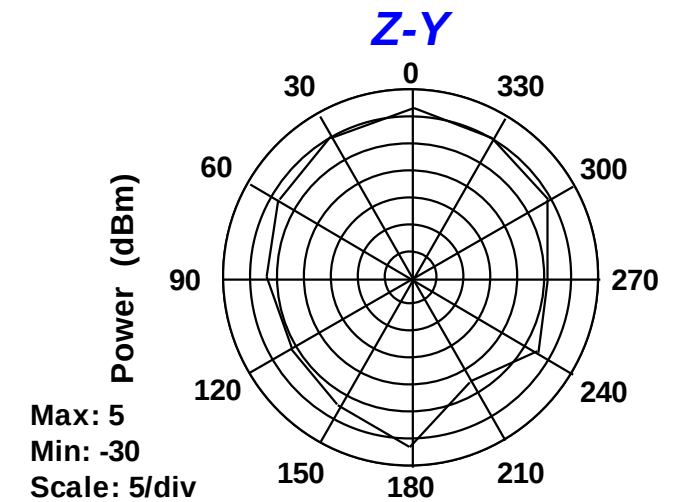
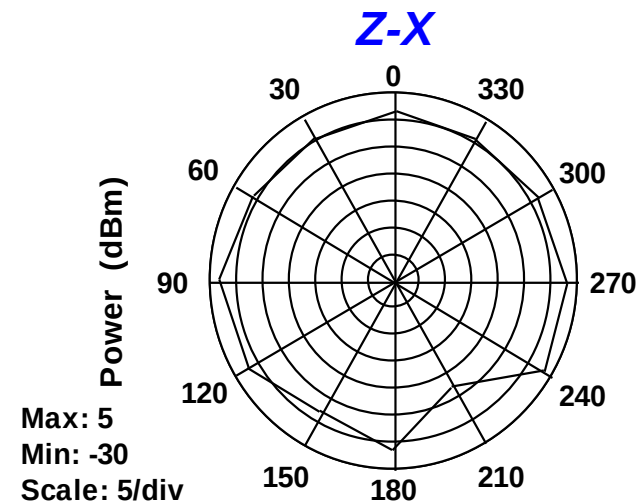
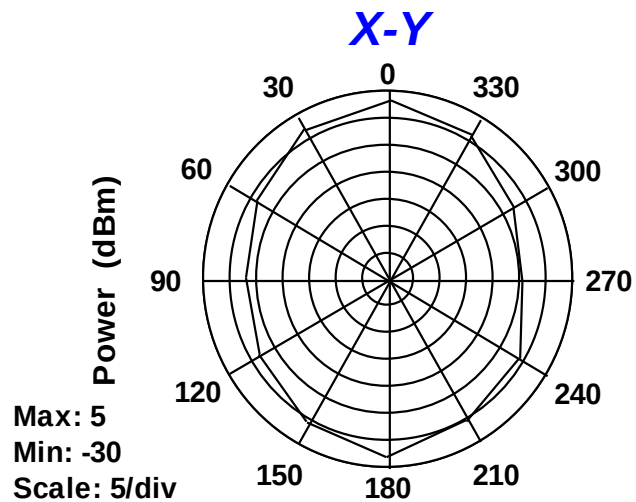


2442 MHz

3D Gain



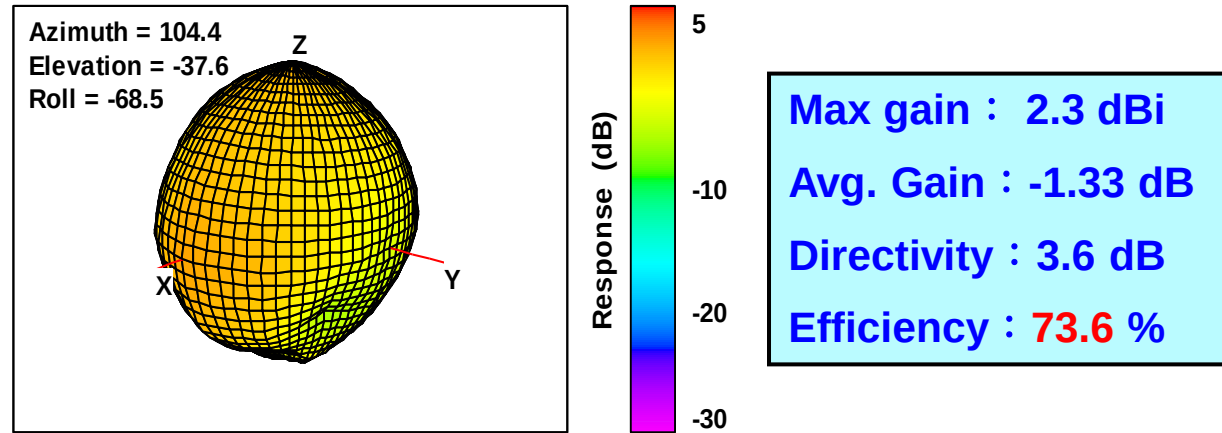
2D Gain



Antenna Performance

2484 MHz

3D Gain



2D Gain

