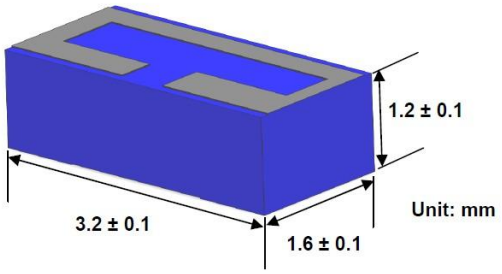
TECHNICAL DATA SHEET

# 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



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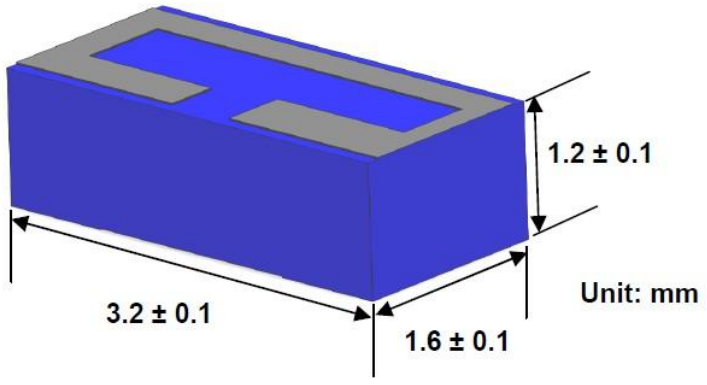
## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| **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 ℃ |
| **Maximum Power** | 1 W |
| **Termination** | Ag (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 ±0.10 |
| W (mm) | 1.6 ±0.10 |
| T (mm) | 1.2 ±0.10 |



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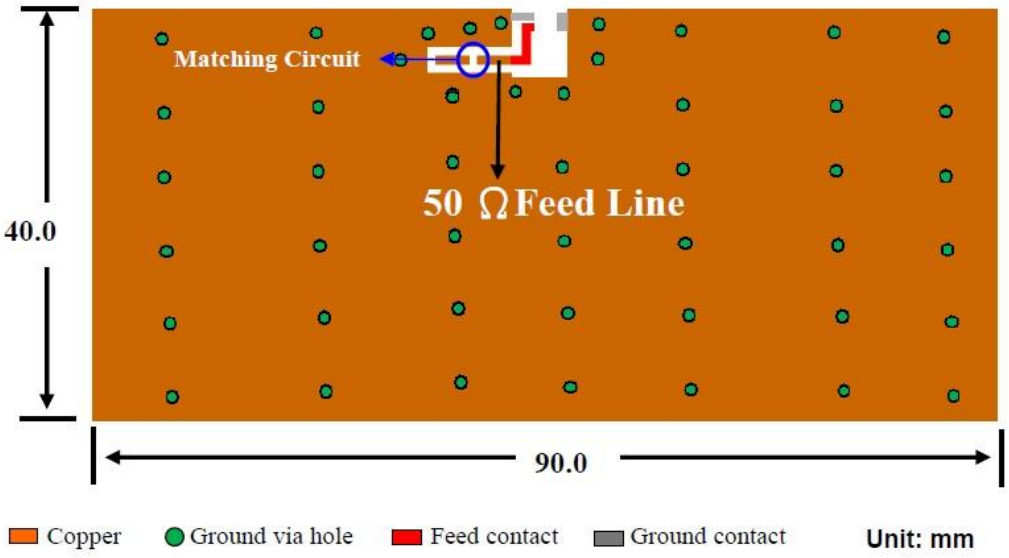
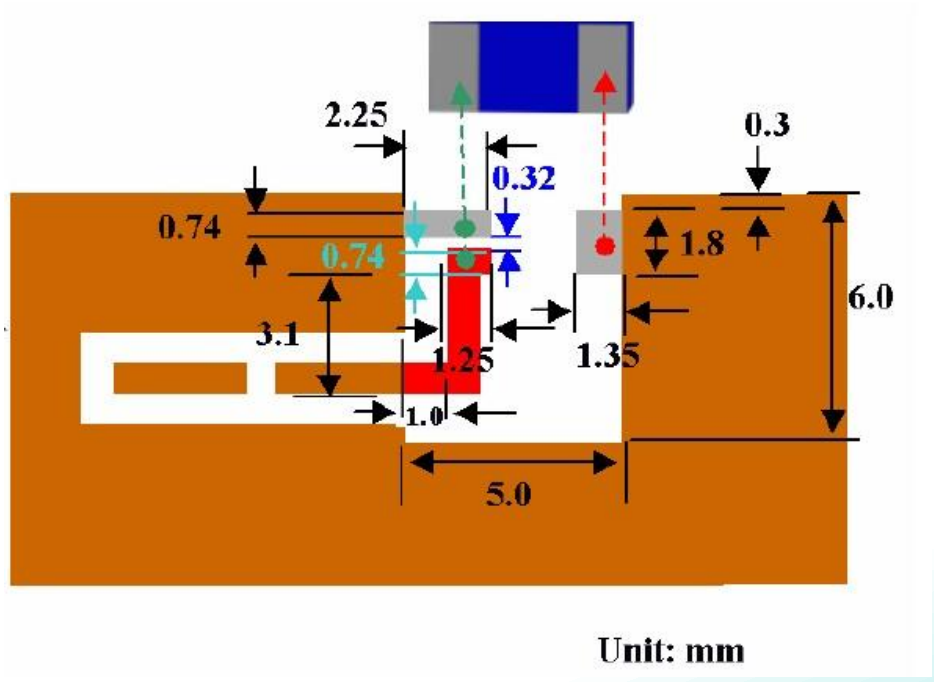
## REFERENCE DESIGN OF EVALUATION BOARD




Outlook and dimension of evaluation board




Details of soldering Pad

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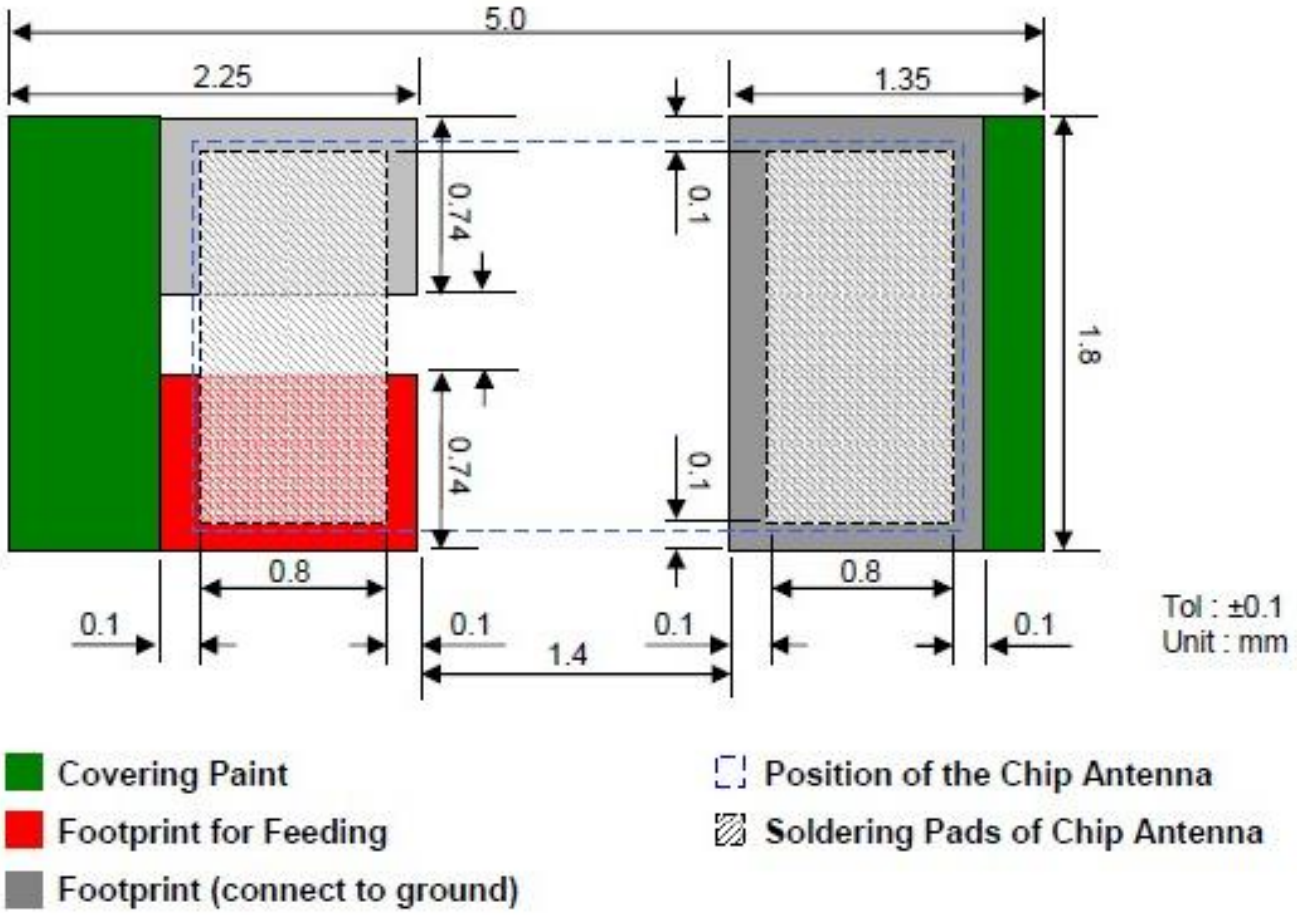


Soldering Pads Dimension and Footprint

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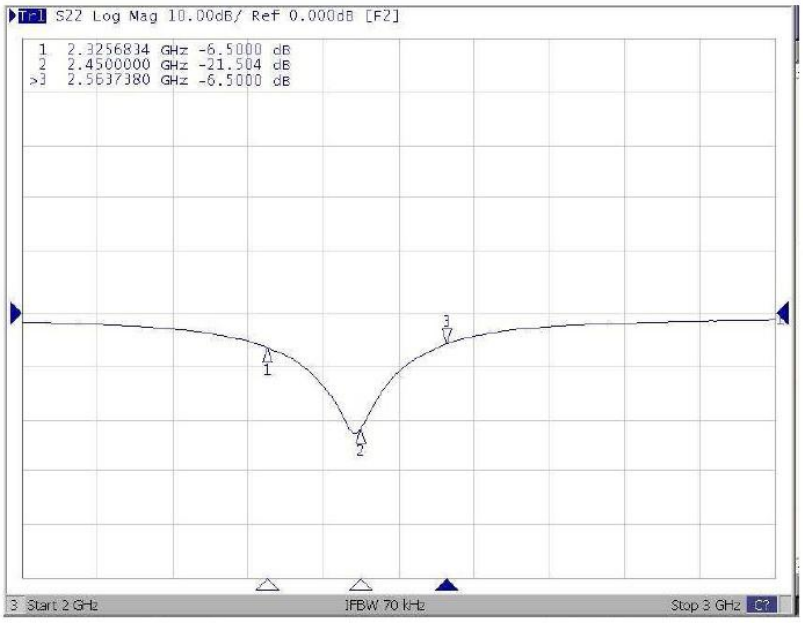
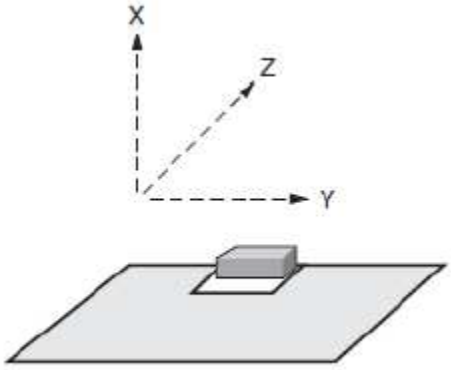
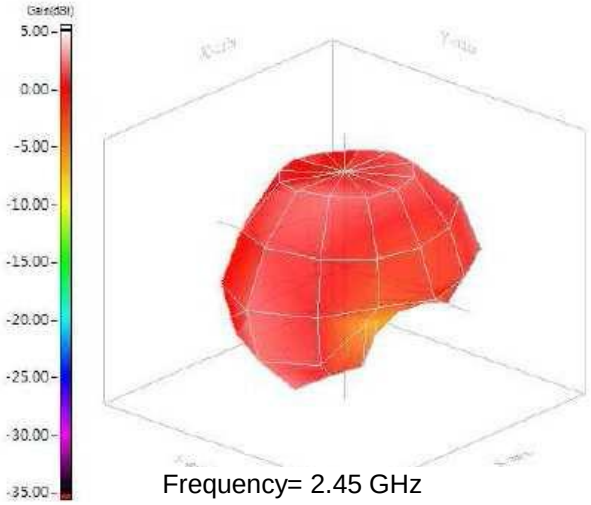
## ELECTRICAL PERFORMANCES




Return loss




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 %

Evaluation board and XYZ direction

Radiation pattern

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## REVISION HISTORY

| Revision | Date | Description |
|---|---|---|
| Version 1 | Oct. 12, 2020 | - New issue |