



**THE DATASHEET OF
ANT3216LL11R2400A**

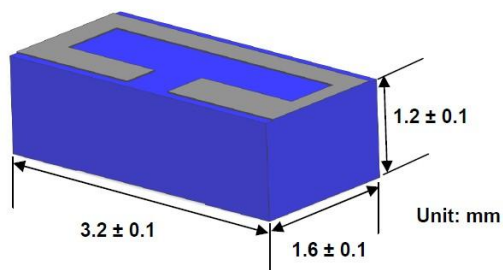


Description: 3216 2.4G Chip Antenna

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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For more information:



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ELECTRICAL SPECIFICATIONS

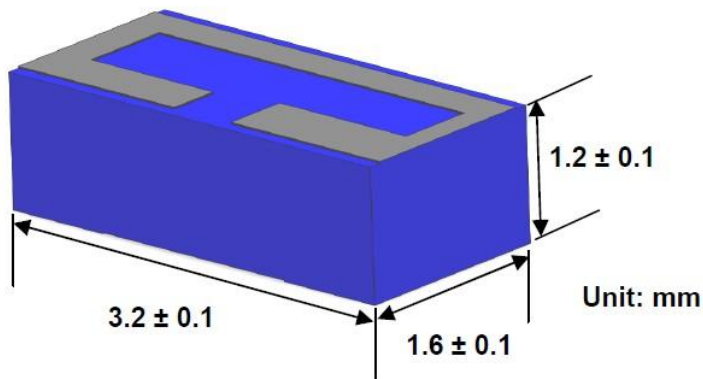
Working Frequency	2.45 GHz
Bandwidth	230 MHz(Typ.)
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.68 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats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

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

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



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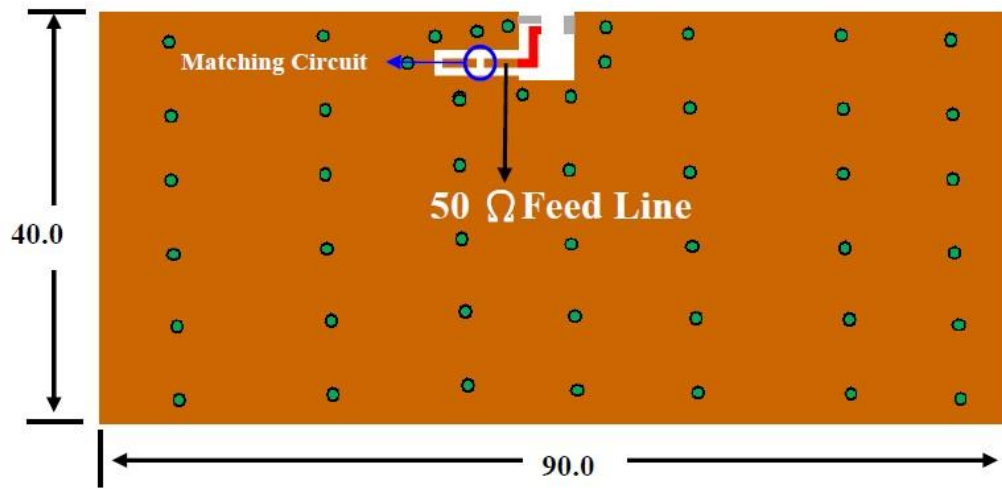
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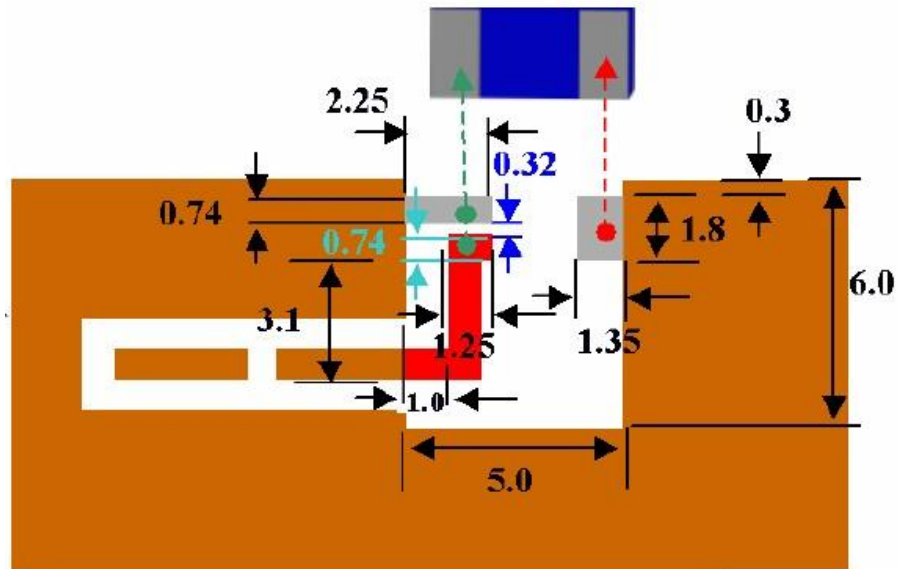
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REFERENCE DESIGN OF EVALUATION BOARD



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

Outlook and dimension of evaluation board



Unit: mm

Details of soldering Pad

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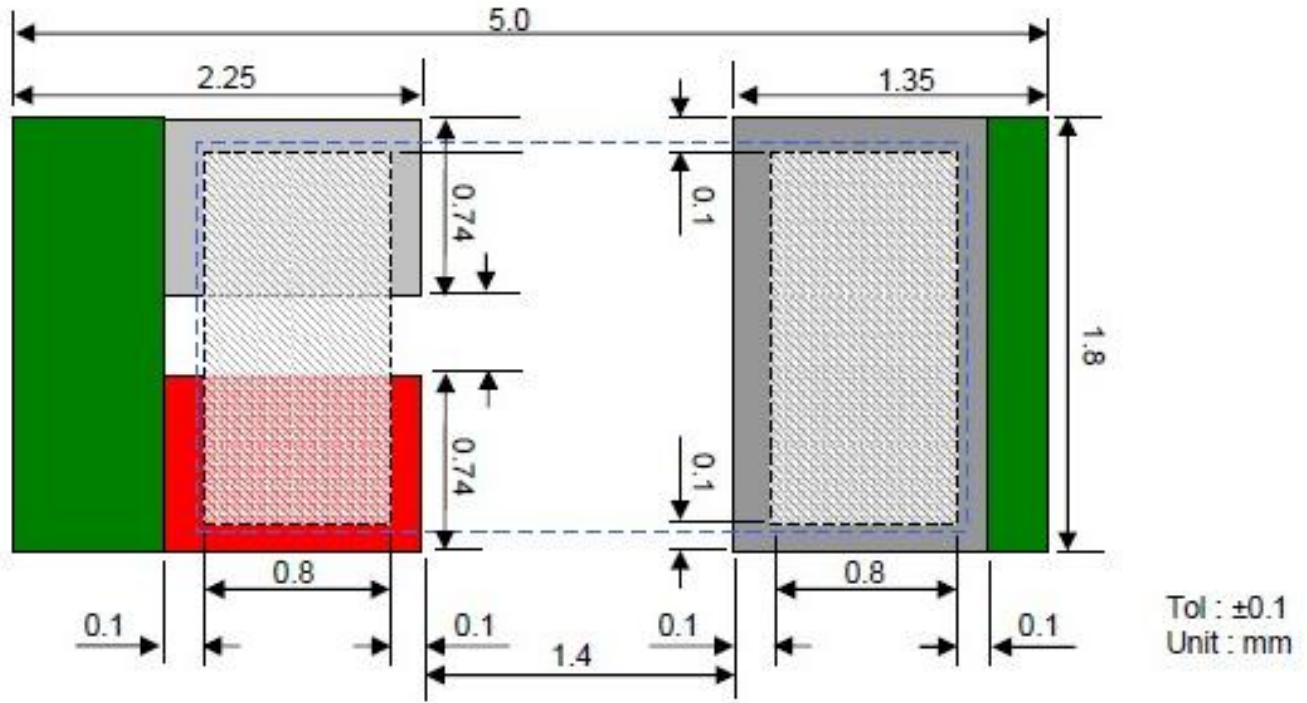
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REFERENCE DESIGN OF EVALUATION BOARD



- Covering Paint
- Footprint for Feeding
- Footprint (connect to ground)
- Position of the Chip Antenna
- Soldering Pads of Chip Antenna

☐ Soldering Pads Dimension and Footprint

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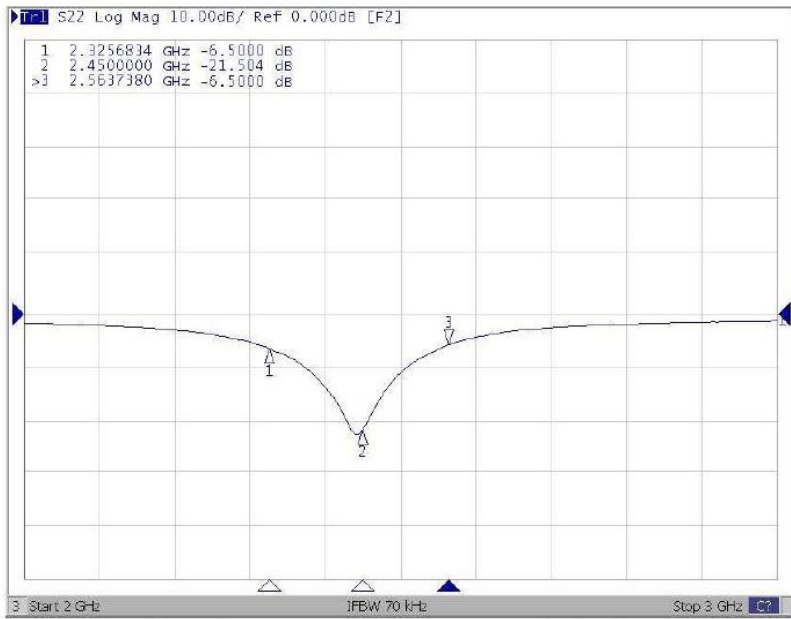
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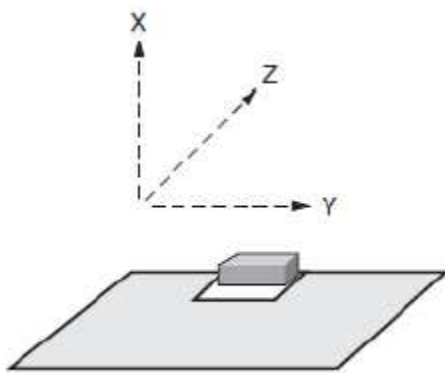
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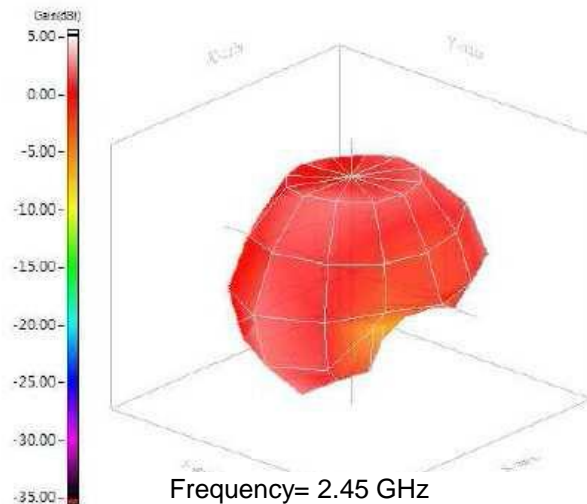
ELECTRICAL PERFORMANCES



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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REVISION HISTORY

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

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