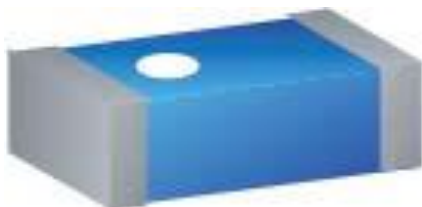


## Description: 3216 2.4G Chip Antenna

**PART NUMBER: ANT3216LL00R2400A**

### 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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Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL00R2400A

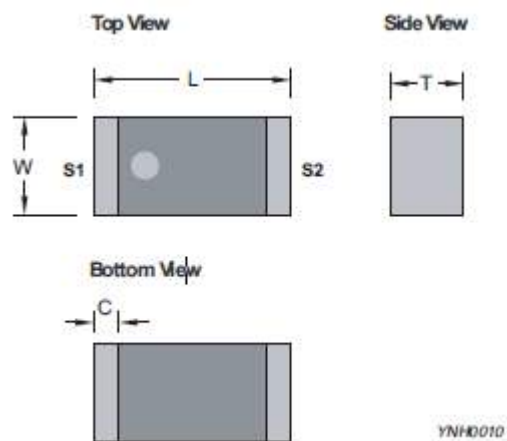
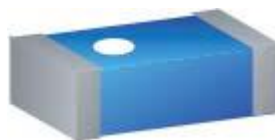
ELECTRICAL SPECIFICATIONS

<b>Working Frequency</b>	2.4-2.5 GHz
<b>Bandwidth</b>	160 MHz(Typ.)
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	5.05 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

	Dimension
L (mm)	3.2 ±0.15
W (mm)	1.6 ±0.15
T (mm)	1.2 ±0.15
C (mm)	0.4 ±0.20



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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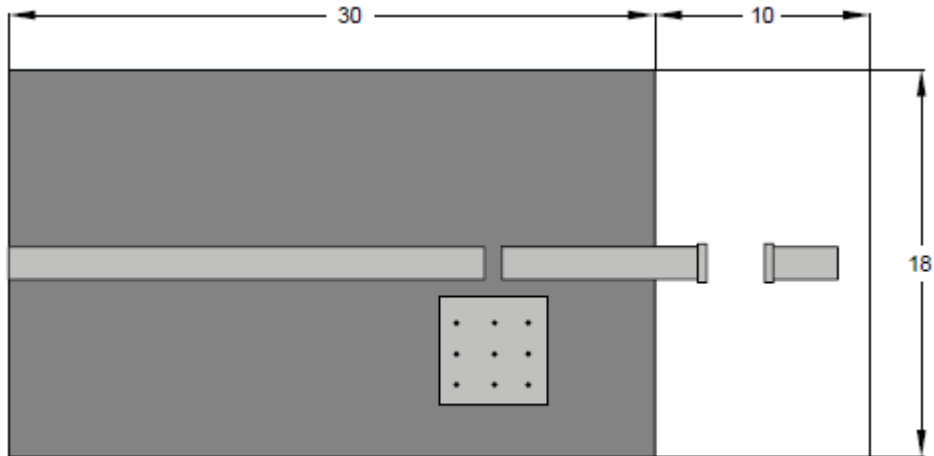
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**Description:** 3216 2.4G Chip Antenna

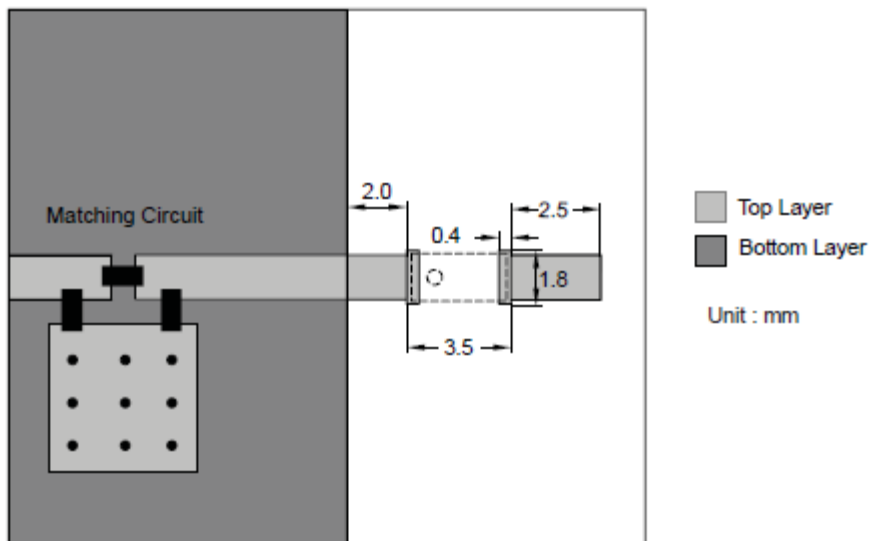
**PART NUMBER:** ANT3216LL00R2400A

**REFERENCE DESIGN OF EVALUATION BOARD**



Unit : mm

Outlook and dimension of evaluation board



Details of soldering Pad

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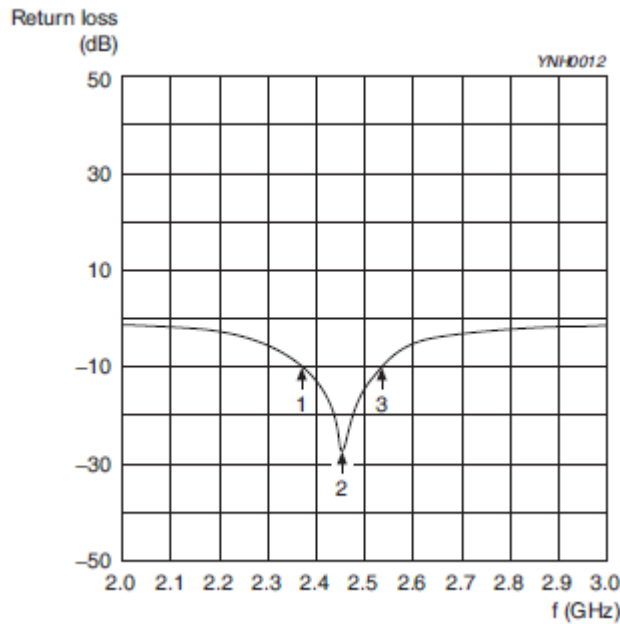
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**Description: 3216 2.4G Chip Antenna**

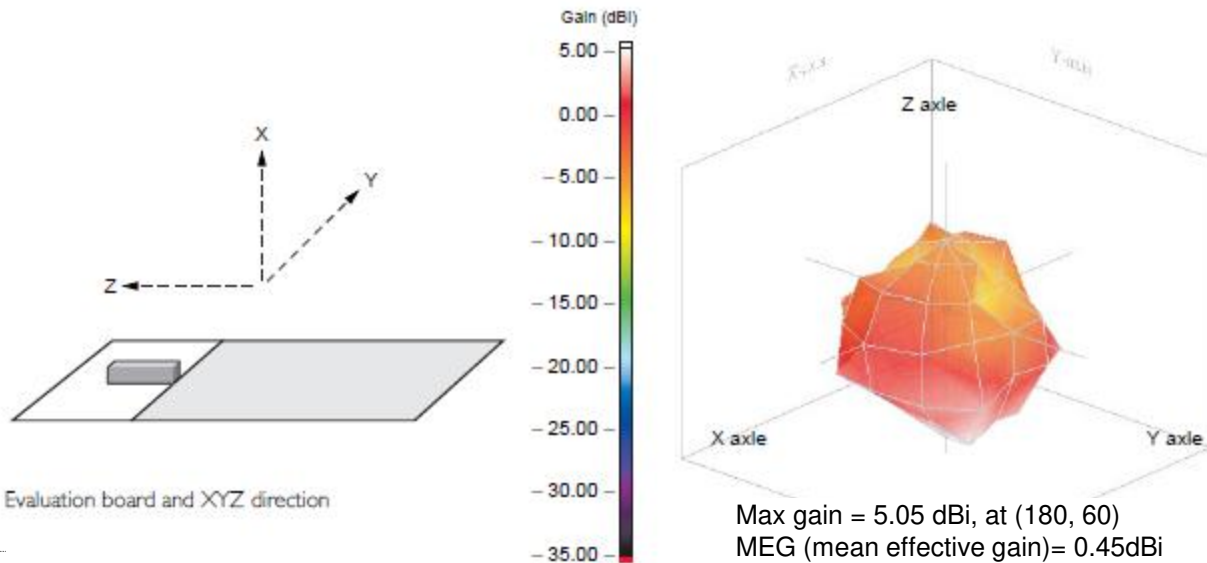
**PART NUMBER: ANT3216LL00R2400A**

**ELECTRICAL PERFORMANCES**



Marker data  
 1. 2.37GHz, -10dB  
 2. 2.45GHz, -27.3dB  
 3. 2.53GHz, -10dB

Return loss



Radiation pattern

Max gain = 5.05 dBi, at (180, 60)  
 MEG (mean effective gain) = 0.45dBi  
 Directivity (dB) = 7.15  
 Efficiency = -1.50dB, 70.74%

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**Description:** 3216 2.4G Chip Antenna

**PART NUMBER:** ANT3216LL00R2400A

### REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 13, 2020	- New issue

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