

**Description:** 3216 2.4-2.5GHz Chip Antenna

**PART NUMBER:** ANT3216A063R2400A

**Features:**

- Size : 3.05x1.55x0.55 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

**Applications:**

- 2.4GHz WiFi device
- Bluetooth gadget
- Zigbee device
- ISM band equipment

**ELECTRICAL SPECIFICATIONS**

<b>Working Frequency</b>	2.45 GHz
<b>Bandwidth</b>	200 MHz(Typ.)
<b>Return Loss</b>	6.5 dB Max.
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	1.69 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

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel:1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

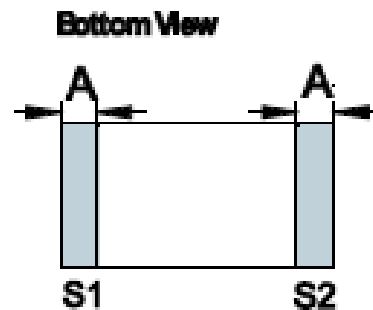
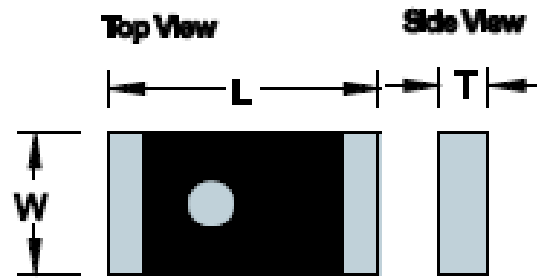
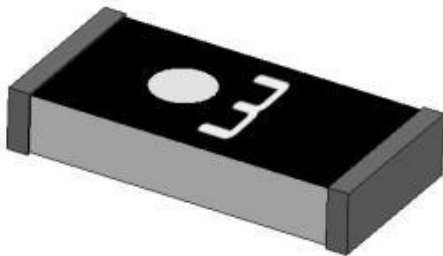
Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



**Description:** 3216 2.4-2.5GHz Chip Antenna

**PART NUMBER:** ANT3216A063R2400A

**MECHANICAL DRAWING**



	<b>Dimension</b>
L (mm)	$3.05 \pm 0.10$
W (mm)	$1.55 \pm 0.10$
T (mm)	$0.55 \pm 0.10$
A (mm)	$0.40 \pm 0.10$

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

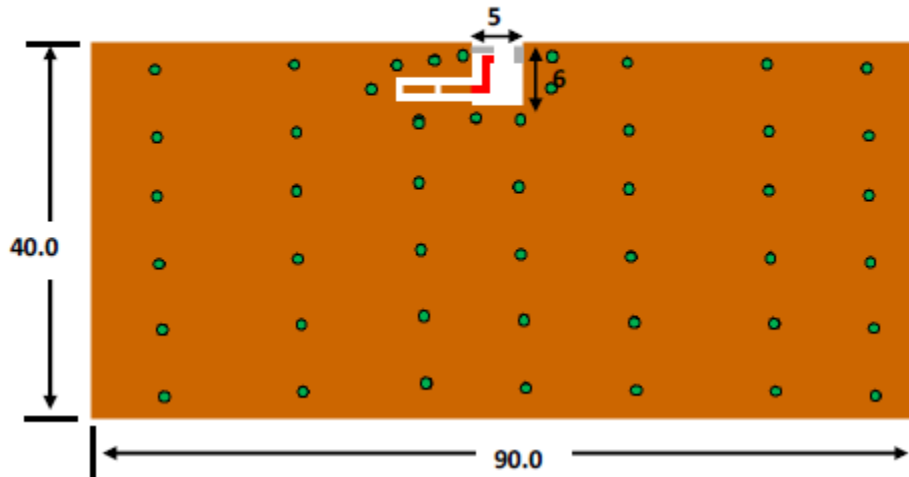
Description: 3216 2.4-2.5GHz Chip Antenna

PART NUMBER: ANT3216A063R2400A

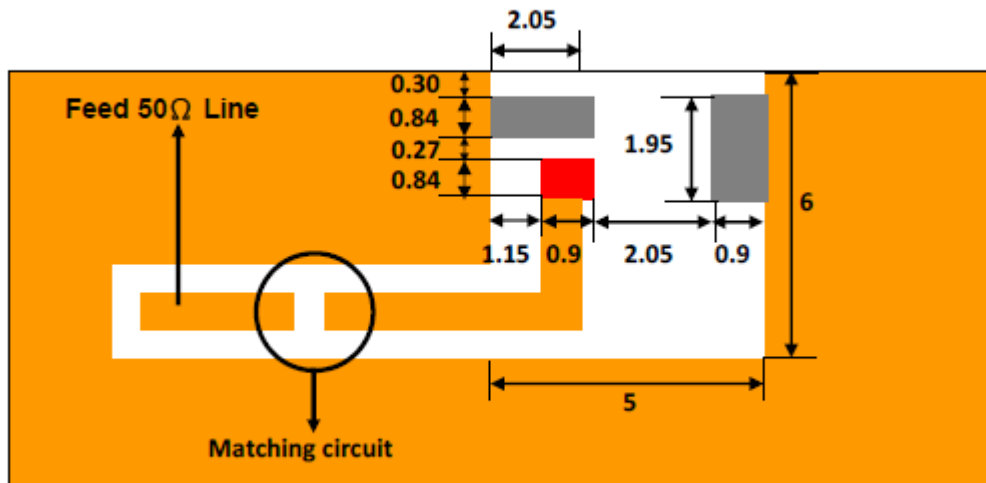
REFERENCE DESIGN OF EVALUATION BOARD

■ Clearance Definition:

□ ( Size = 6.0 \* 5.0 mm )



■ Soldering Pads Dimension and Footprint :



■ Footprint for Feeding

■ Footprint (connect to ground)

Unit:mm

Outlook and dimension of evaluation board

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

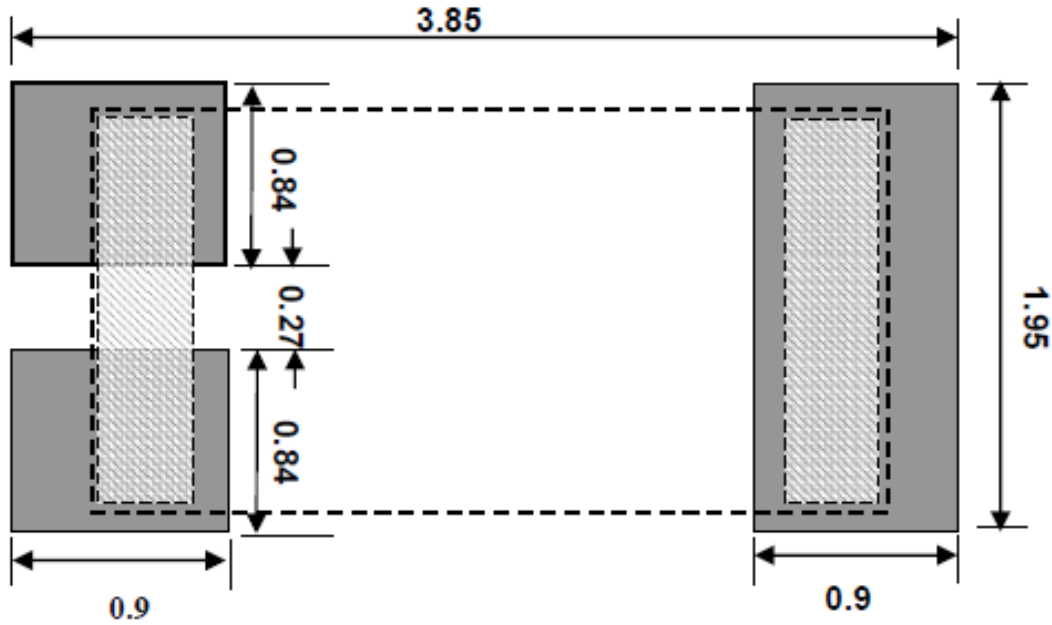
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: 3216 2.4-2.5GHz Chip Antenna

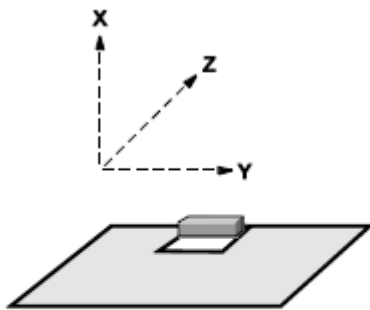
PART NUMBER: ANT3216A063R2400A

REFERENCE DESIGN OF EVALUATION BOARD



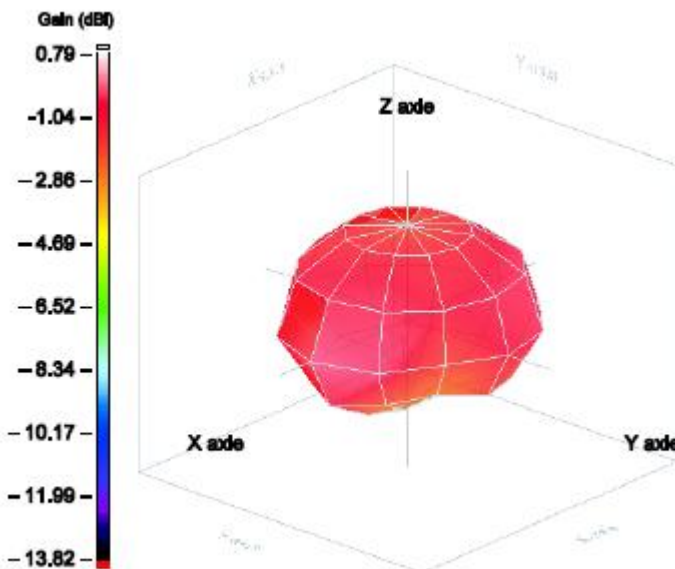
Tol :  $\pm 0.1$   
Unit : mm

Dimension of footprint



Evaluation board and XYZ direction

Radiation pattern



Frequency= 2.45 GHz  
Max gain = 1.69 dBi  
MEG (mean effective gain)= -1.00 dBi  
Directivity (dB) = 2.18  
Efficiency = - 0.49dB,  
89.33%

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws.

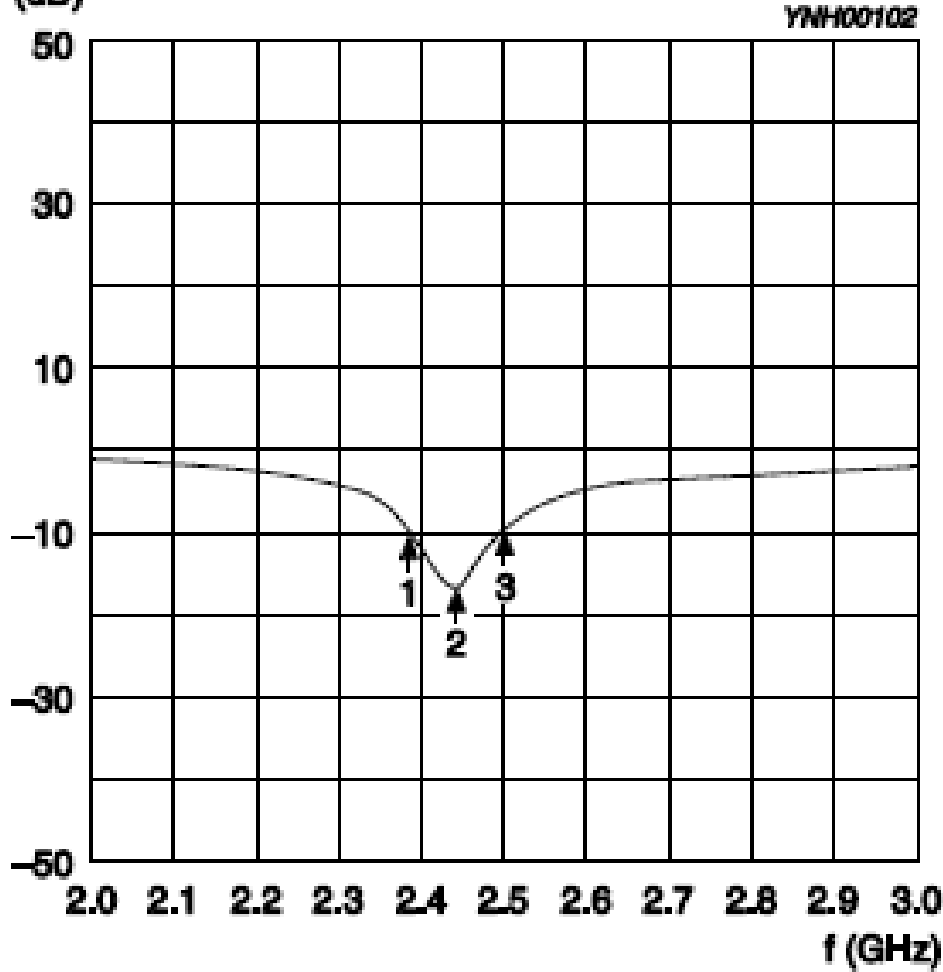
Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

**Description:** 3216 2.4-2.5GHz Chip Antenna

**PART NUMBER:** ANT3216A063R2400A

**ELECTRICAL PERFORMANCES**

**Return loss  
 (dB)**



Maker data  
 1. 2.39GHz, -10.00dB  
 2. 2.45GHz, -16.48dB  
 3. 2.50GHz, -10.00dB

Return loss

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

**Description:** 3216 2.4-2.5GHz Chip Antenna

**PART NUMBER:** ANT3216A063R2400A

### REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 20, 2020	- New issue

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.