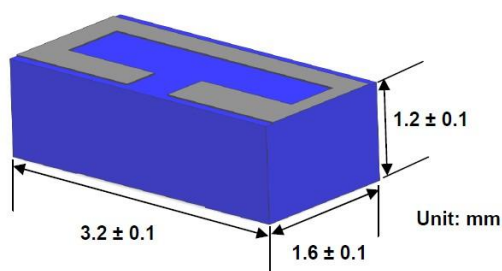


Description: 3216 2.4G Chip Antenna

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.

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:



Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

ELECTRICAL SPECIFICATIONS

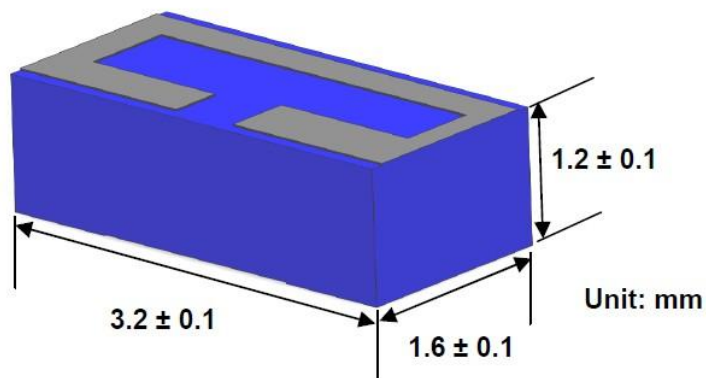
Working Frequency	2.45 GHz
Bandwidth	230 MHz(Typ.)
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.68 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to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



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

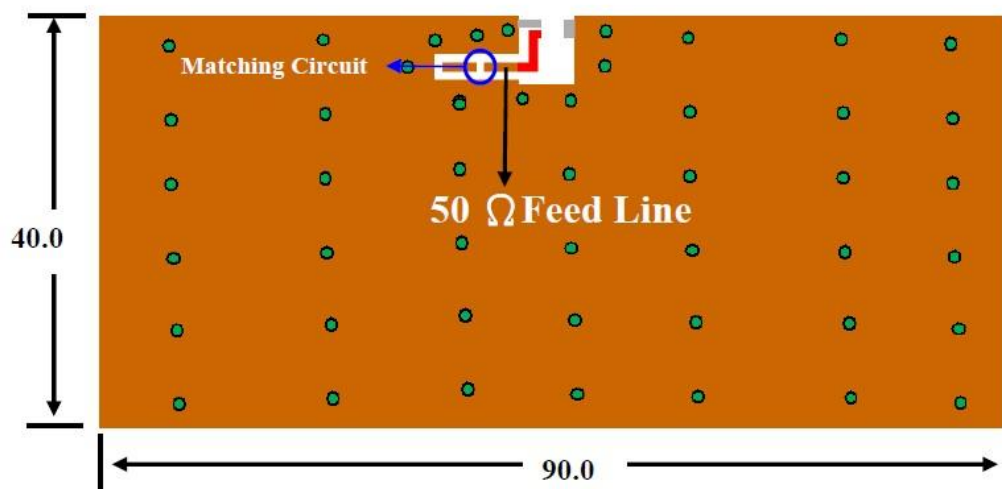
CONFIDENTIAL AND PROPRIETARY INFORMATION

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 2.4G Chip Antenna

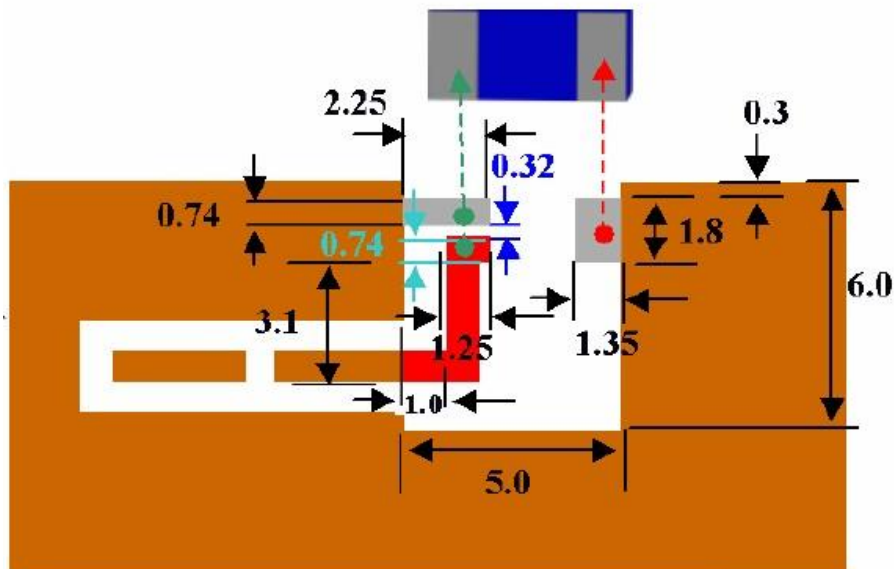
PART NUMBER: ANT3216LL11R2400A

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.

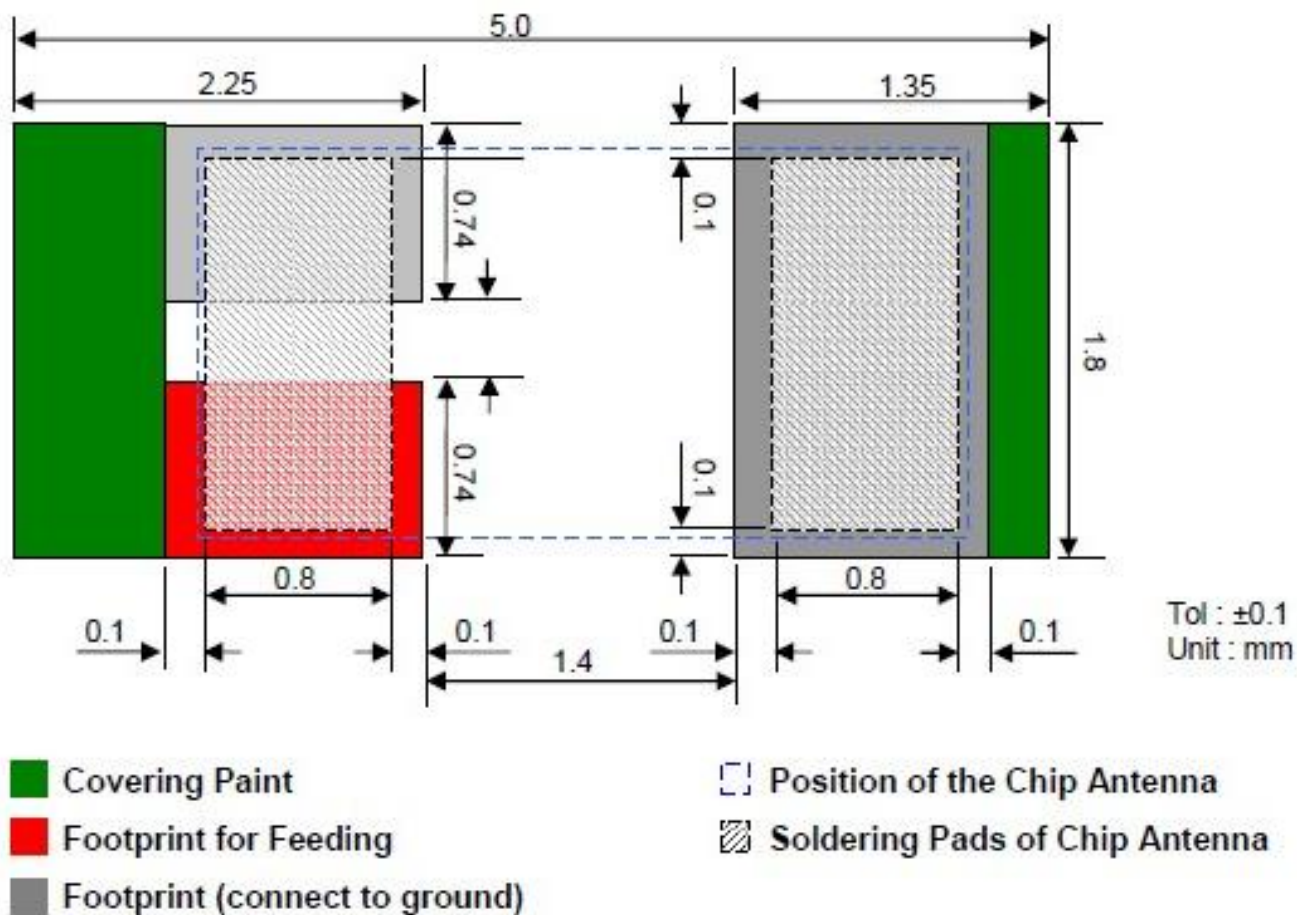
CONFIDENTIAL AND PROPRIETARY INFORMATION

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 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

REFERENCE DESIGN OF EVALUATION BOARD



Soldering Pads Dimension and Footprint

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.

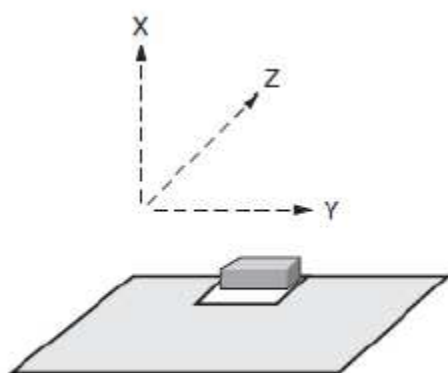
Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

ELECTRICAL PERFORMANCES

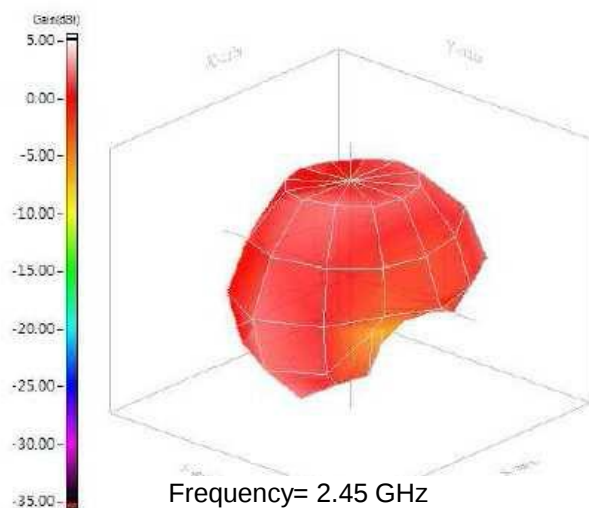


Return loss



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 %

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 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 12, 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.