chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 3216 UWB 6.5-8GHz Chip Antenna

PART NUMBER: ANT3216LL00R6580A

Features:

- Size : 3.2x1.6x1.2 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- Smart tag
- Indoor navigation
- Access management
- RTLS B2B
- UWB group Channel 5 (6.5GHz) to Channel 9 (8GHz)

ELECTRICAL SPECIFICATIONS

Working Frequency	6200 ~ 8200MHz
Bandwidth	2000 MHz
Return Loss	10 dB (Min.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2 dBi (Min.)
Impedance	50 Ω
Operating Temperature	- 30 ~ 85 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 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 34th 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,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

chanhvinh.com

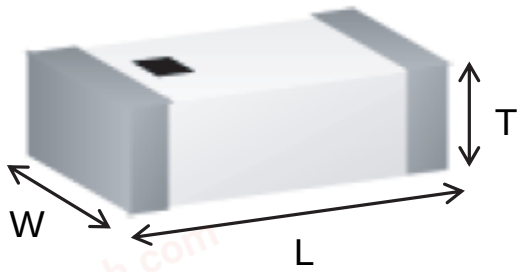
Pulse | LARSEN Antennas
A YAGEO Company

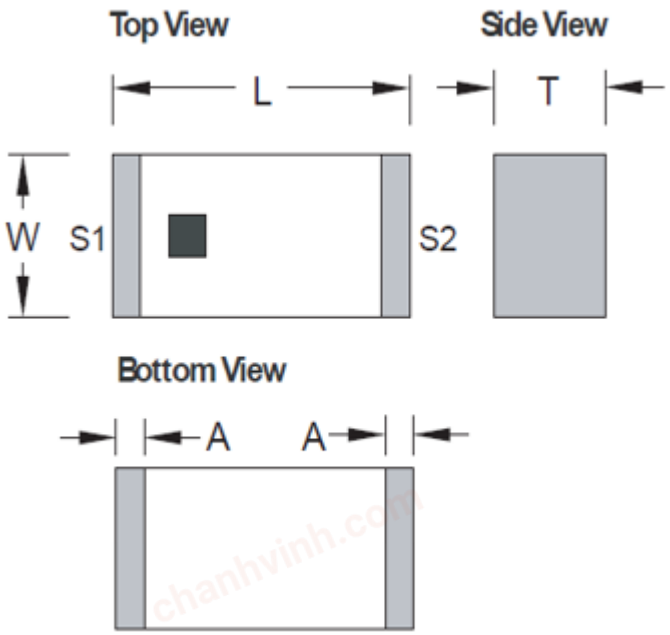
TECHNICAL DATA SHEET

Description: 3216 UWB 6.5-8GHz Chip Antenna

PART NUMBER: ANT3216LL00R6580A

MECHANICAL DRAWING





	Dimension
L (mm)	3.20 ±0.20
W (mm)	1.60 ±0.15
T (mm)	1.20 ±0.15
A (mm)	0.40 ±0.25

Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company | LARSEN Antennas

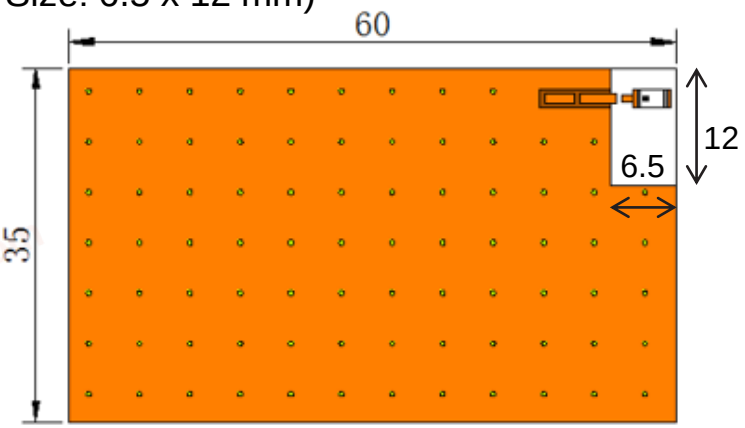
TECHNICAL DATA SHEET

Description: 3216 UWB 6.5-8GHz Chip Antenna

PART NUMBER: ANT3216LL00R6580A

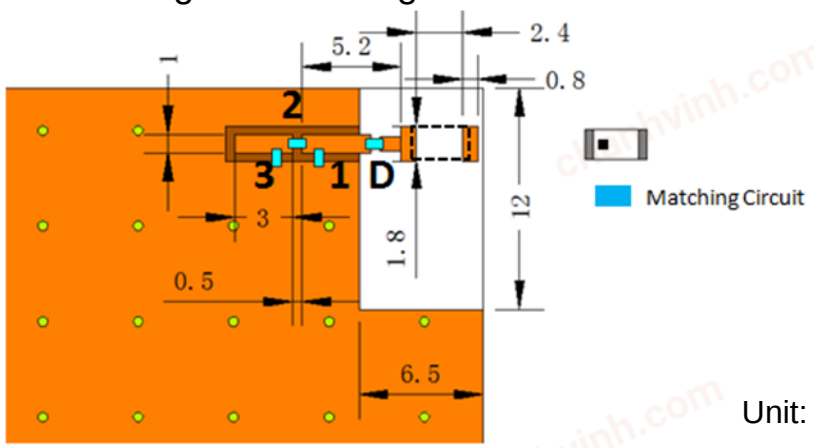
LAYOUT OF EVALUATION BOARD

- Clearance Definition:
  (Size: 6.5 x 12 mm)



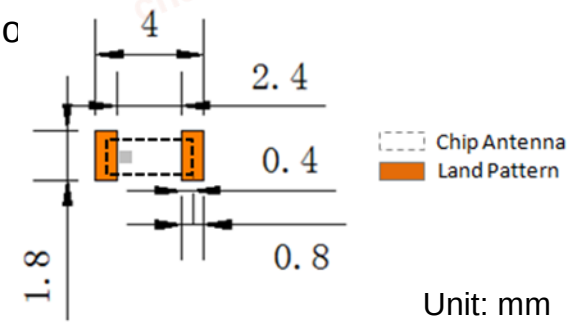
Unit: mm

- Reference design of Matching circuit



Unit: mm

- Soldering Pads Dimensio
  and Footprint



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.

RoHS COMPLIANT

chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 3216 UWB 6.5-8GHz Chip Antenna

PART NUMBER: ANT3216LL00R6580A

ELECTRICAL PERFORMANCES



Maker data
1. 6.2GHz, -14.87dB
2. 6.5GHz, -18.72dB
3. 7.2GHz, -13.38dB
4. 8.0GHz, -15.99dB
5. 8.2GHz, -18.39dB

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.

RoHS COMPLIANT

chanhvinh.com

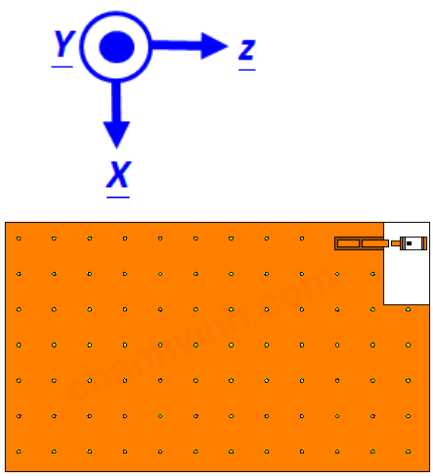
Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

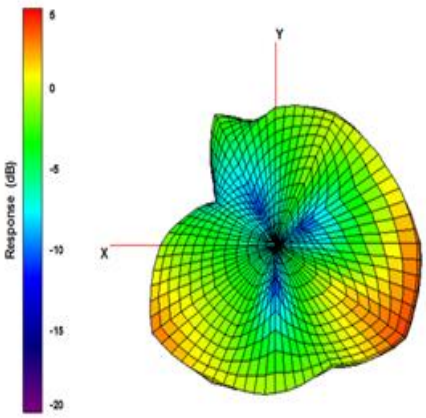
Description: 3216 UWB 6.5-8GHz Chip Antenna

PART NUMBER: ANT3216LL00R6580A

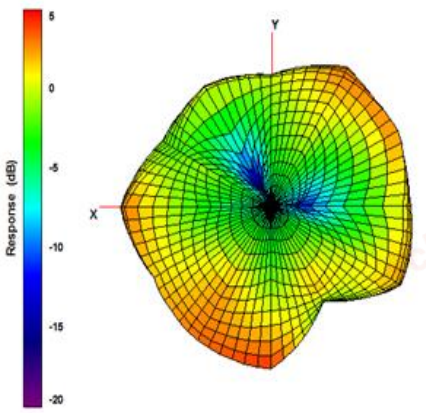
ELECTRICAL PERFORMANCES



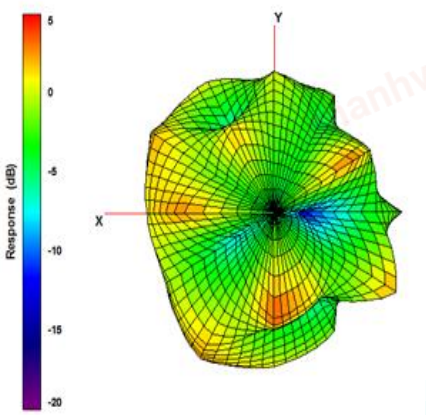
Evaluation board and XYZ direction



Frequency = 6500MHz
Max. Gain = 3.0 dBi
MEG (mean effective gain) = -1.7 dBi
Efficiency = 67.9%



Frequency = 7200MHz
Max. Gain = 5.2 dBi
MEG (mean effective gain) = -1.3 dBi
Efficiency = 74.9%



Frequency = 8000MHz
Max. Gain = 1.7 dBi
MEG (mean effective gain) = -3.1 dBi
Efficiency = 48.7%

Radiation pattern

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

RoHS COMPLIANT

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.

chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 3216 UWB 6.5-8GHz Chip Antenna

PART NUMBER: ANT3216LL00R6580A

REVISION HISTORY

Revision	Date	Description
Version 1	Aug. 5, 2021	- New issue.

chanhvinh.com

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.

RoHS COMPLIANT