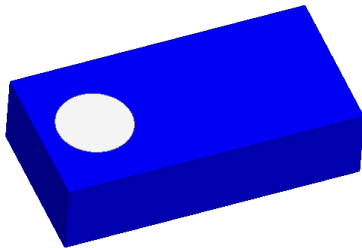


**Description: 1608 WiFi 6E Chip Antenna**

**PART NUMBER: ANT1608LL14R2460A**

**Features:**

- Size : 1.6x0.8x0.4 mm
- Omni-directional Radiation
- Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



**Applications:**

- WiFi 6E device
- ISM band equipment

All dimensions are in mm / inches

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: 1608 WiFi 6E Chip Antenna**

**PART NUMBER: ANT1608LL14R2460A**

**ELECTRICAL SPECIFICATIONS**

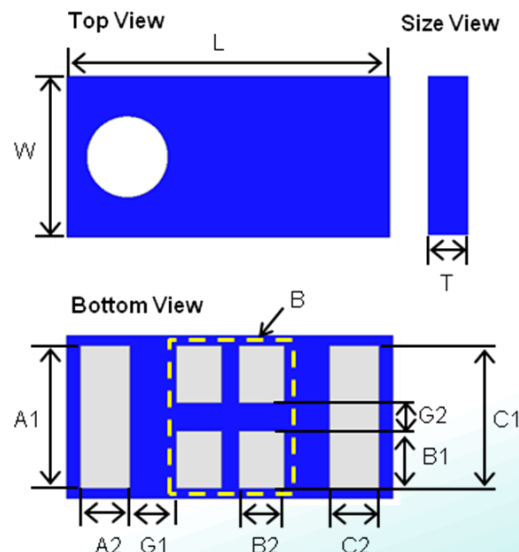
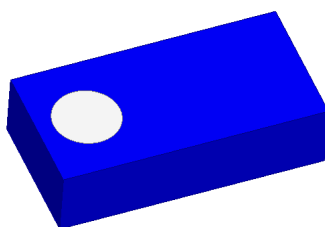
<b>Working Frequency</b>	2.4GHz / 5.15 ~ 7.125GHz
<b>Bandwidth</b>	84MHz / 2000MHz(Typ.)
<b>Return Loss</b>	7.0 dB Min
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	3.65 / 3.69 dBi(Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C
<b>Maximum 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

**MECHANICAL DRAWING**

	<b>Dimension</b>
L (mm)	1.60 ±0.15
W (mm)	0.80 ±0.15
T (mm)	0.40 ±0.15
A1(mm)	0.70 ±0.15
A2(mm)	0.25 ±0.15
B1(mm)	0.30 ±0.15
B2(mm)	0.25 ±0.15
C1(mm)	0.70 ±0.15
C2(mm)	0.25 ±0.15
G1(mm)	0.20 ±0.05
G2(mm)	0.10 ±0.05



<b>Terminal name</b>	<b>Function</b>
B	Feeding Point
A1,A2	Soldering Point for 2.4GHz
C1,C2	Soldering Point for 6GHz

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

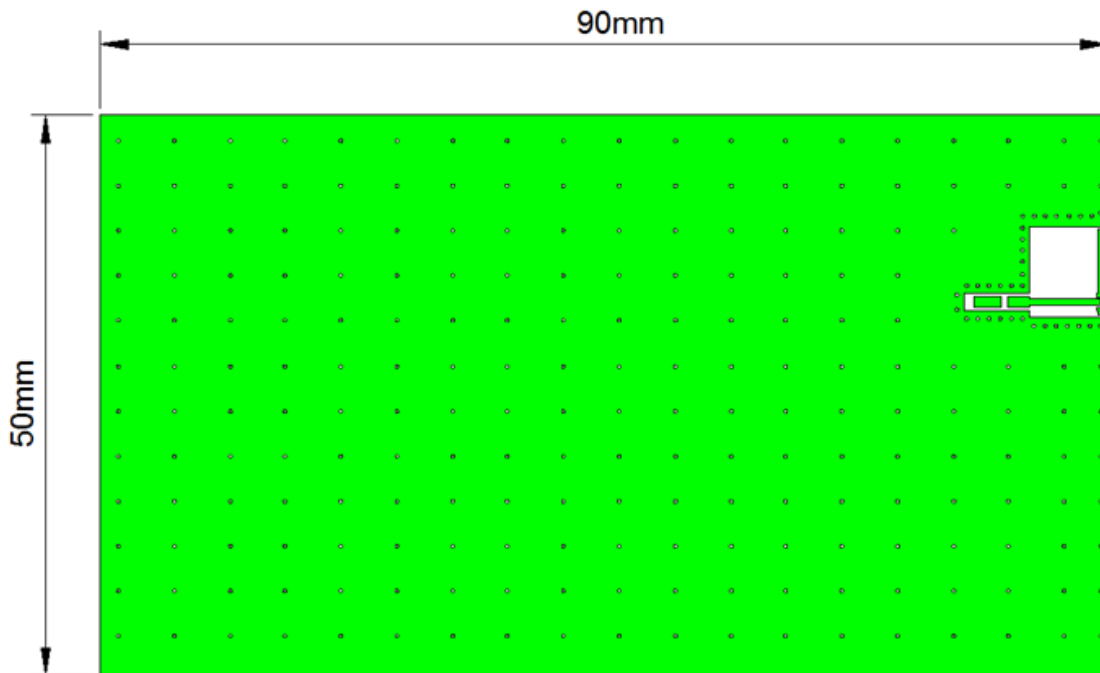
CONFIDENTIAL AND PROPRIETARY INFORMATION

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:** 1608 WiFi 6E Chip Antenna

**PART NUMBER:** ANT1608LL14R2460A

**REFERENCE DESIGN OF EVALUATION BOARD**



Outlook and dimension of evaluation board

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

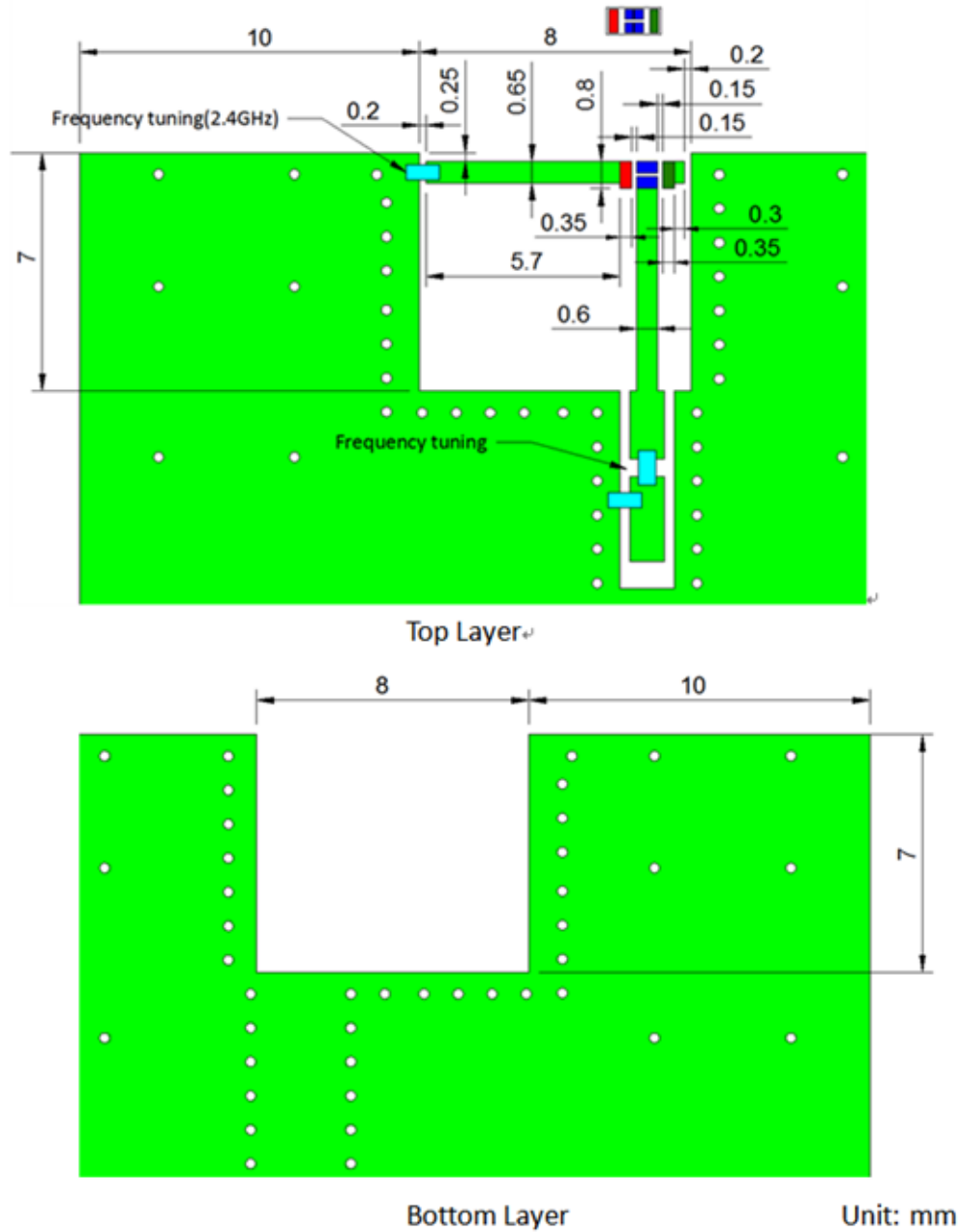
CONFIDENTIAL AND PROPRIETARY INFORMATION

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: 1608 WiFi 6E Chip Antenna

PART NUMBER: ANT1608LL14R2460A

REFERENCE DESIGN OF EVALUATION BOARD



Details of soldering Pad

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

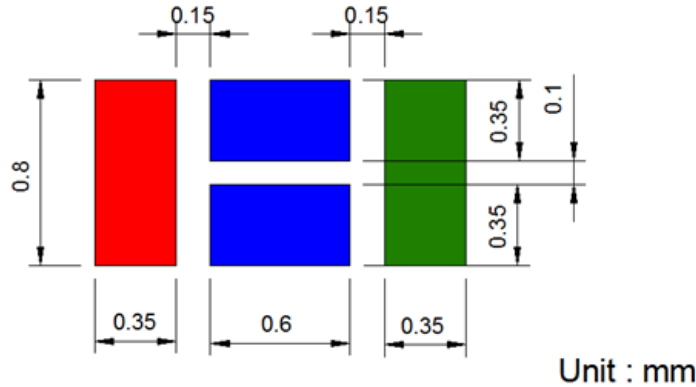
CONFIDENTIAL AND PROPRIETARY INFORMATION

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: 1608 WiFi 6E Chip Antenna**

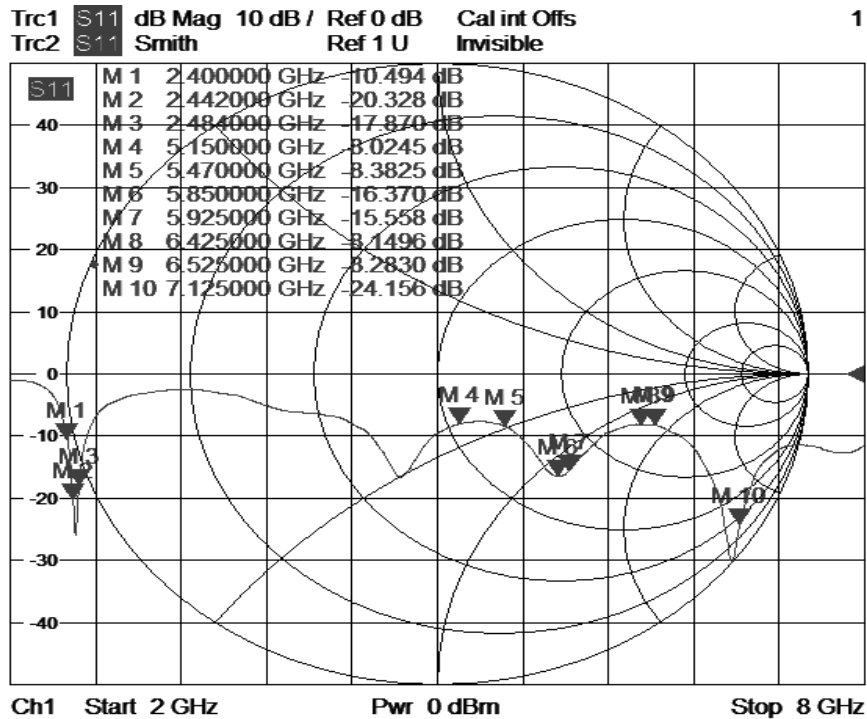
**PART NUMBER: ANT1608LL14R2460A**

**REFERENCE DESIGN OF EVALUATION BOARD**



- : Footprint for 2.4GHz
- : Footprint for Feeding
- : Footprint for 6GHz

Footprint



Return loss

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

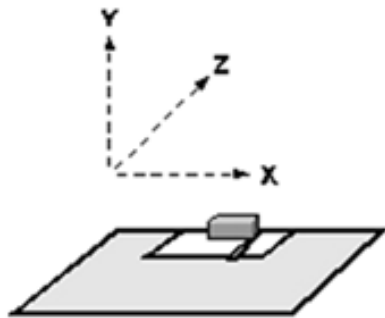
CONFIDENTIAL AND PROPRIETARY INFORMATION

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.

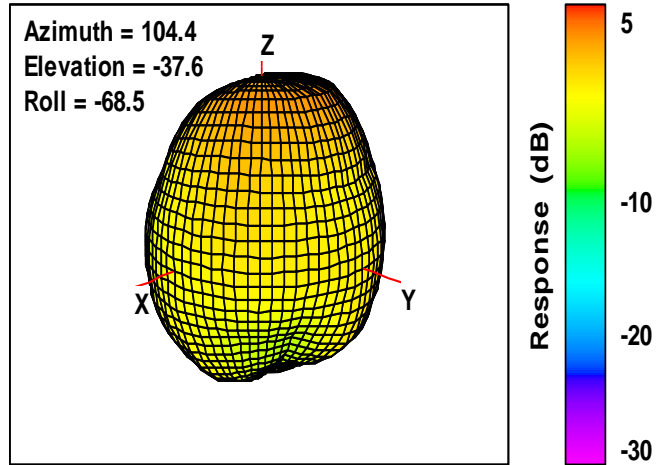
**Description: 1608 WiFi 6E Chip Antenna**

**PART NUMBER: ANT1608LL14R2460A**

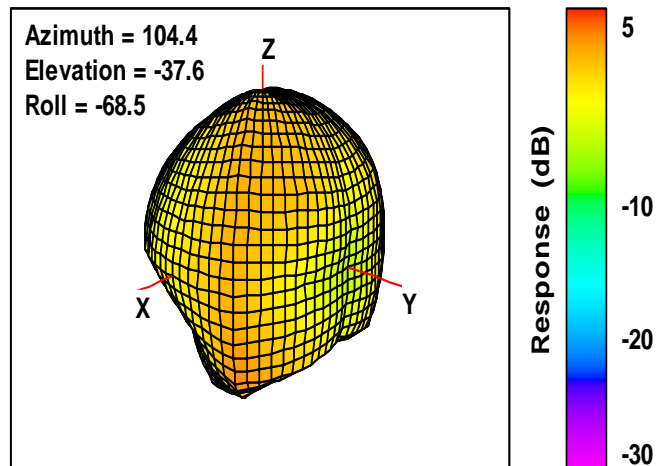
**ELECTRICAL PERFORMANCES**



Evaluation board and XYZ direction



Frequency : 2.442 GHz  
Efficiency : 71.2 %



Frequency : 5.470 GHz  
Efficiency : 62.8 %

Radiation pattern

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

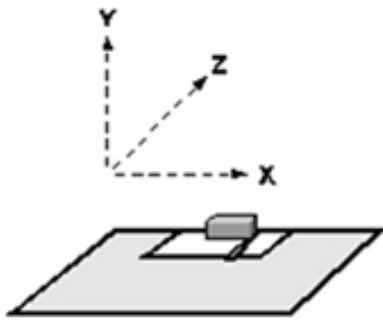
CONFIDENTIAL AND PROPRIETARY INFORMATION

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.

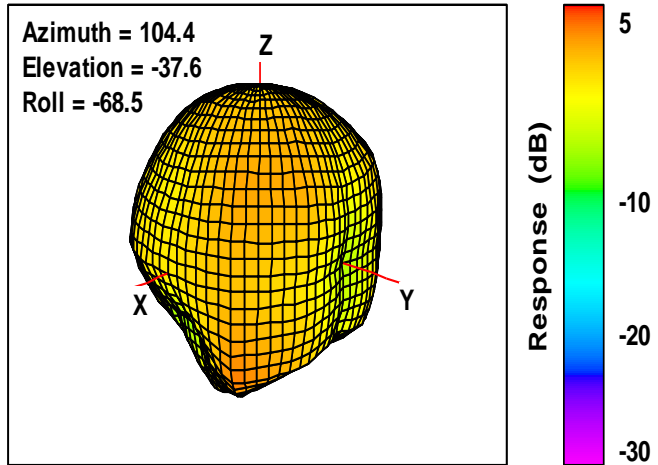
**Description: 1608 WiFi 6E Chip Antenna**

**PART NUMBER: ANT1608LL14R2460A**

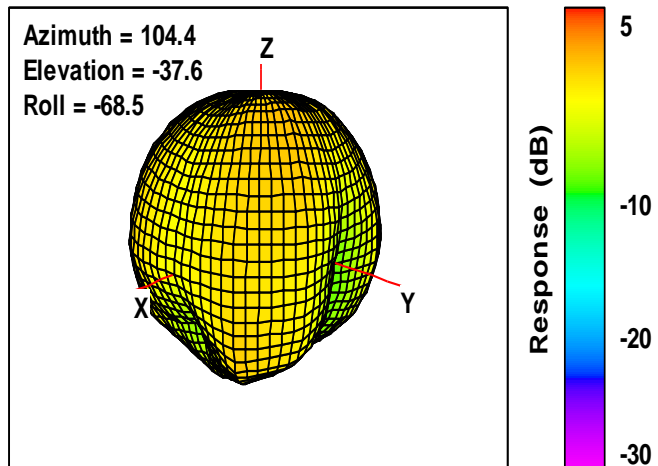
**ELECTRICAL PERFORMANCES**



Evaluation board and XYZ direction



Frequency : 5.850 GHz  
Efficiency : 76.2 %



Frequency : 6.425 GHz  
Efficiency : 66.9 %

Radiation pattern

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

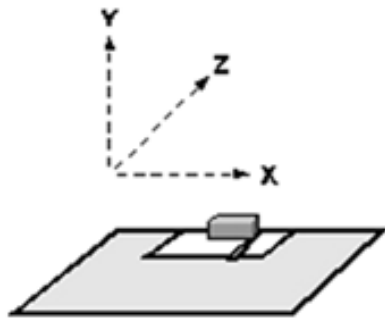
CONFIDENTIAL AND PROPRIETARY INFORMATION

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.

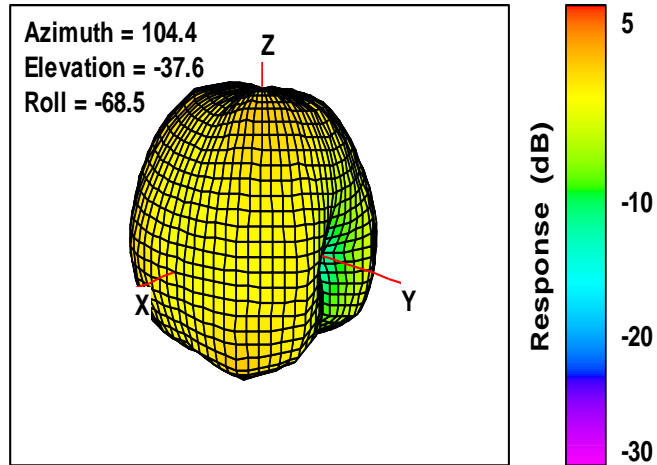
**Description: 1608 WiFi 6E Chip Antenna**

**PART NUMBER: ANT1608LL14R2460A**

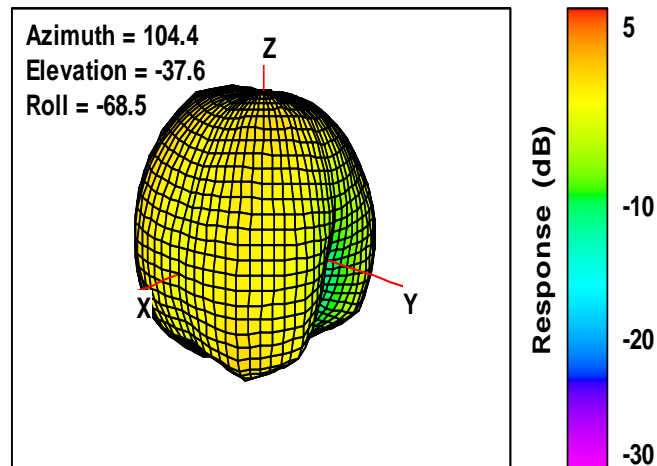
**ELECTRICAL PERFORMANCES**



Evaluation board and XYZ direction



Frequency : 6.875 GHz  
 Efficiency : 63.8 %



Frequency : 7.125 GHz  
 Efficiency : 60.8 %

Radiation pattern

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:** 1608 WiFi 6E Chip Antenna

**PART NUMBER:** ANT1608LL14R2460A

### REVISION HISTORY

Revision	Date	Description
Version 1	Apr. 28, 2021	- New issue