

**Description:** 8010 GPS/Galileo&GLONASS  
Chip Antenna

**PART NUMBER: ANT8010LL05R1516A**

**Features:**

- Size : 8.0x1.0x1.0 mm
- Support GPS/Galileo & GLONASS system
- High radiation efficiency
- Reflow process compatible (SMD only)
- RoHS compliant



**Applications:**

- Tablet (for chip)
- Navigation device
- Telematics box
- Fleet management

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: 8010 GPS/Galileo&GLONASS  
Chip Antenna**

**PART NUMBER: ANT8010LL05R1516A**

**ELECTRICAL SPECIFICATIONS**

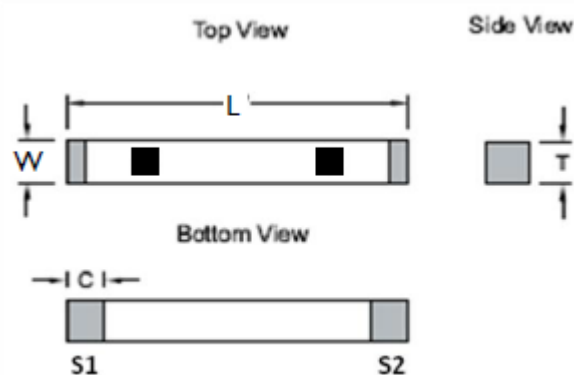
<b>Working Frequency</b>	1.575 / 1.602 GHz
<b>Bandwidth</b>	80 MHz(Typ.)
<b>Return Loss</b>	10.0 dB Min
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	GPS / Galileo 1.53 dBi (Typ.) GLONASS 1.69 dBi (Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °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

**MECHANICAL DRAWING**

	<b>Dimension</b>
L (mm)	8.00 ±0.20
W (mm)	1.00 ±0.20
T (mm)	1.00 ±0.20
A (mm)	0.90 ±0.15



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

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

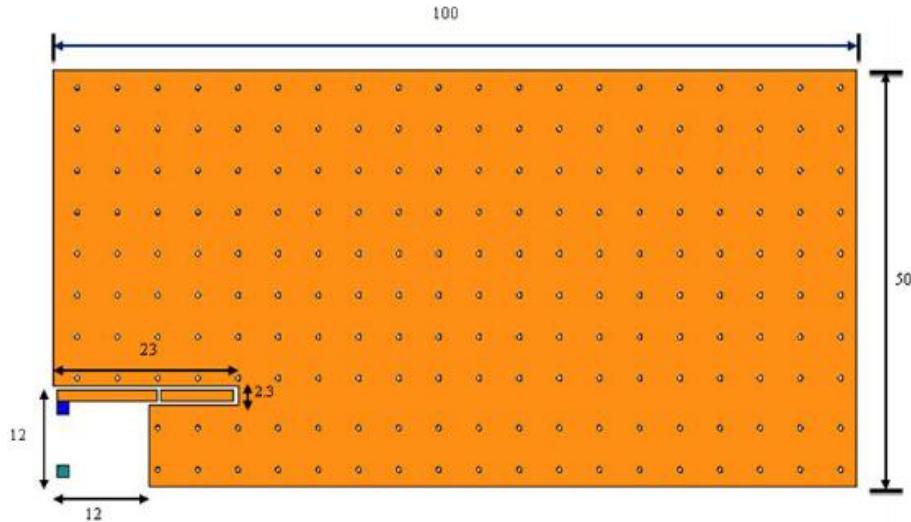
CONFIDENTIAL AND PROPRIETARY INFORMATION

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.

**Description:** 8010 GPS/Galileo&GLONASS  
Chip Antenna

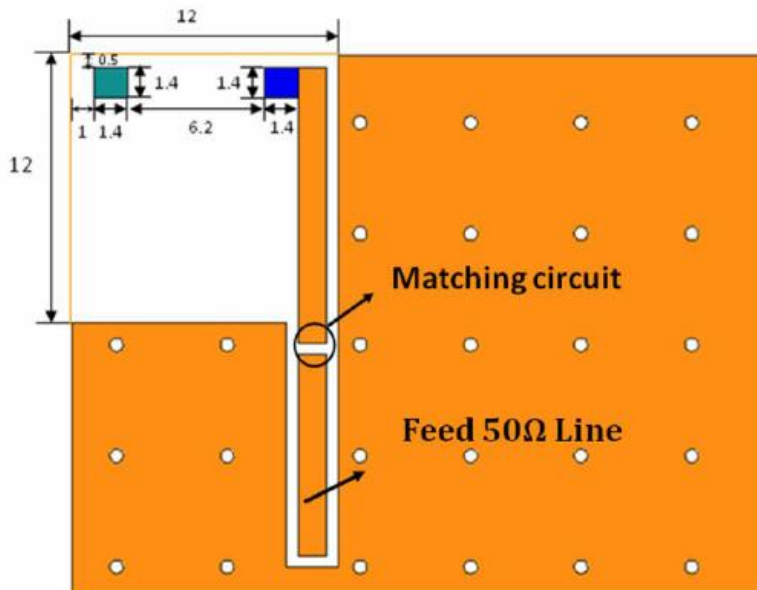
**PART NUMBER:** ANT8010LL05R1516A

**REFERENCE DESIGN OF EVALUATION BOARD**



■ Copper<sup>+</sup>   
 ○ Ground via hole<sup>+</sup>   
 ■ Feed contact<sup>+</sup>   
 ■ Solder pad<sup>+</sup>   
 Unit: mm : Tol : ± 0.15

Outlook and dimension of evaluation board



■ Soldering Pads of Chip Antenna   
 ■ Footprint for Feeding

Details of soldering Pad

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

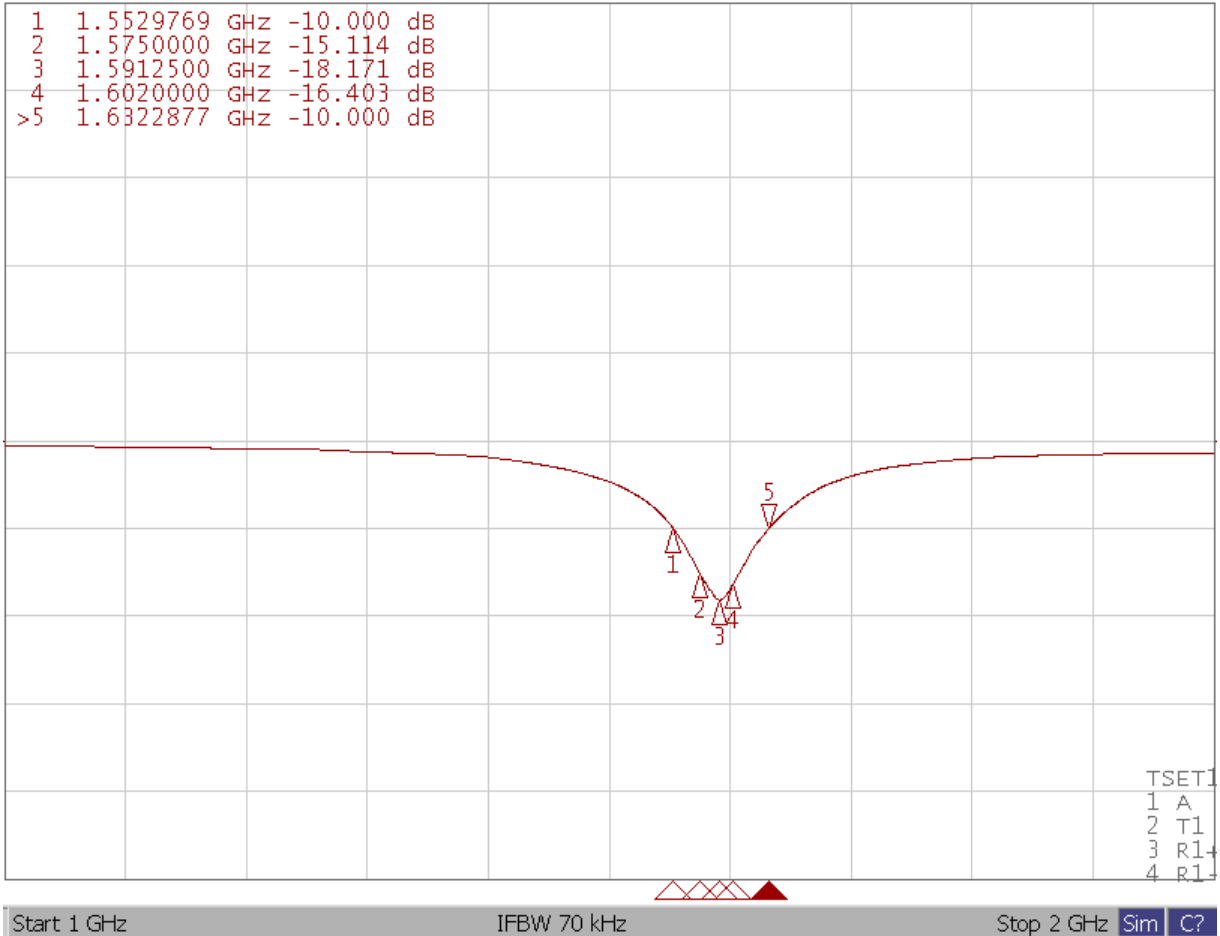
CONFIDENTIAL AND PROPRIETARY INFORMATION

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:** 8010 GPS/Galileo&GLONASS  
Chip Antenna

**PART NUMBER:** ANT8010LL05R1516A

**ELECTRICAL PERFORMANCES**



Return loss

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

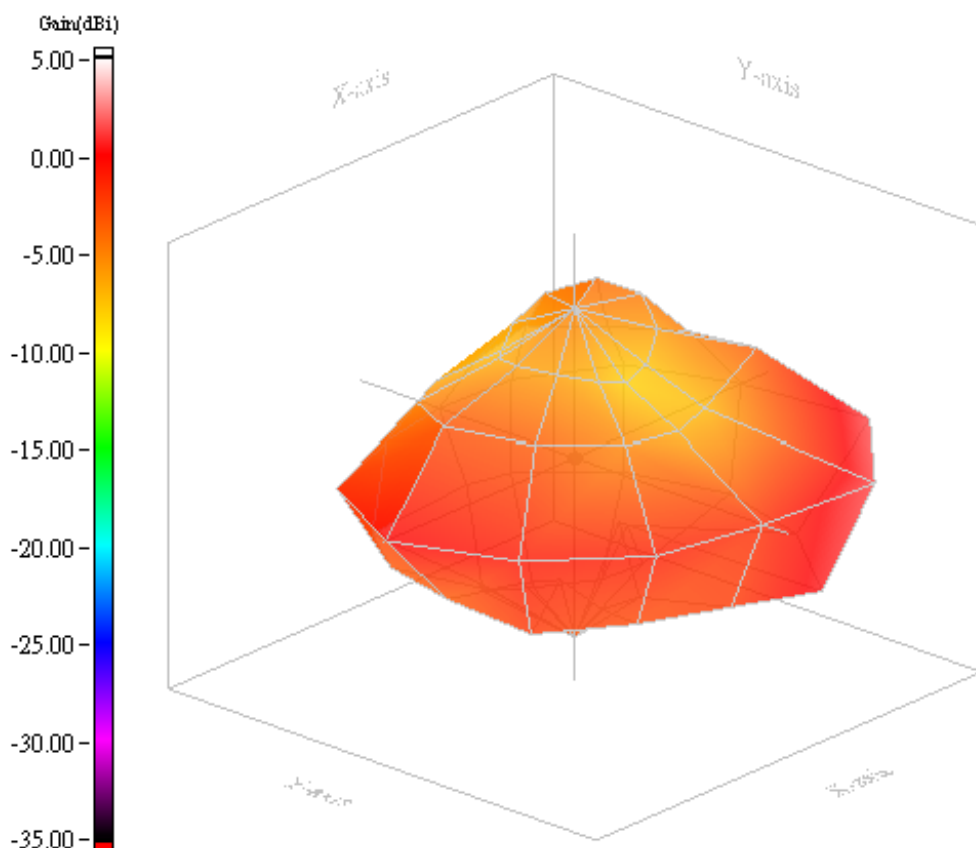
CONFIDENTIAL AND PROPRIETARY INFORMATION

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:** 8010 GPS/Galileo&GLONASS  
 Chip Antenna

**PART NUMBER:** ANT8010LL05R1516A

**ELECTRICAL PERFORMANCES**



Max gain= 1.53dBi, at (90, 150)  
 MEG(mean effective gain)=-3.51dBi  
 Directivity(dB)= 4.66  
 Efficiency=-3.13dB, 48.69%

Radiation Pattern (Frequency = 1575MHz)

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

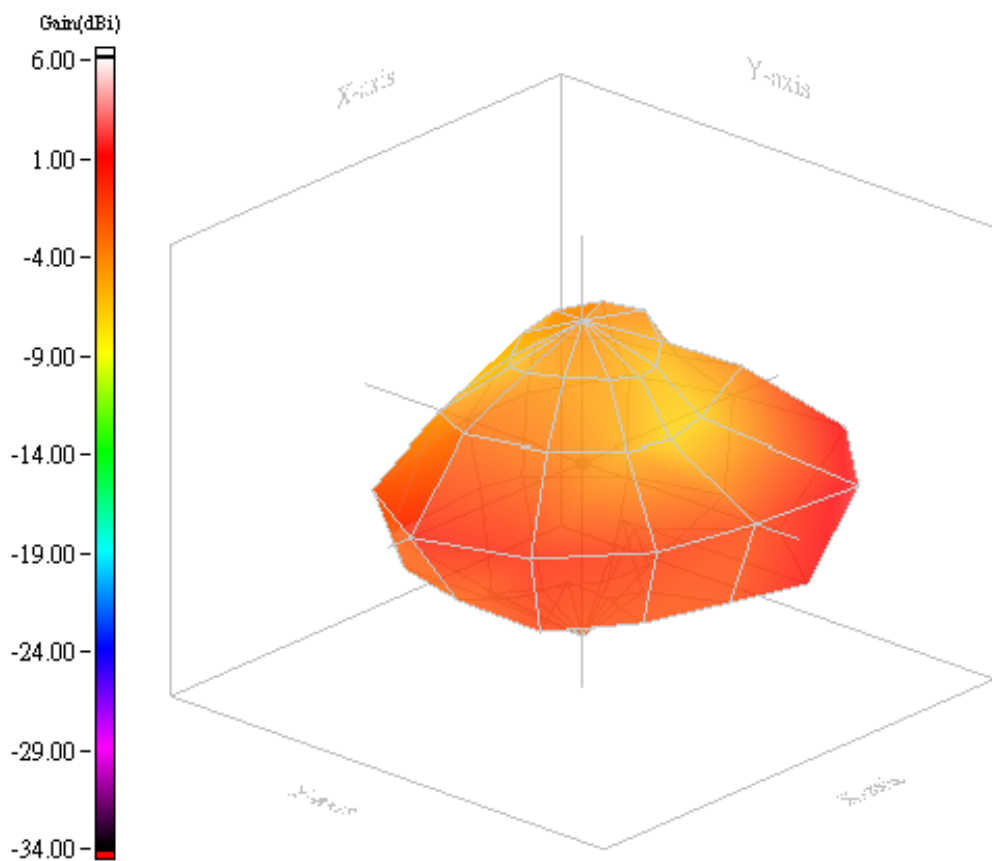
CONFIDENTIAL AND PROPRIETARY INFORMATION

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:** 8010 GPS/Galileo&GLONASS  
Chip Antenna

**PART NUMBER:** ANT8010LL05R1516A

**ELECTRICAL PERFORMANCES**



Max gain= 1.69dBi, at (90, 120)  
MEG (mean effective gain)= -2.98dBi  
Directivity(dB)= 4.48  
Efficiency= -2.79dB, 52.60%

Radiation Pattern (Frequency = 1602MHz)

**Description:** 8010 GPS/Galileo&GLONASS  
Chip Antenna

**PART NUMBER: ANT8010LL05R1516A**

## REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 14, 2020	- New issue

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Antennas](#) category:*

*Click to view products by [Yageo](#) manufacturer:*

Other Similar products are found below :

[GAN30084EU](#) [930-033-R](#) [GW17.07.0250E](#) [1513563-1](#) [EXE902SM](#) [APAMPG-117](#) [MAF94383](#) [W3908B0100](#) [W6102B0100](#) [YE572113-30RSMM](#) [108-00014-50](#) [66089-2406](#) [SPDA17RP918](#) [A09-F8NF-M](#) [A09-F5NF-M](#) [RGFRA1903041A1T](#) [W3593B0100](#) [W3921B0100](#) [SIMNA-868](#) [SIMNA-915](#) [SIMNA-433](#) [W1044](#) [W1049B090](#) [A75-001](#) [WTL2449CQ1-FRSMM](#) [CPL9C](#) [EXB148BN](#) [0600-00060](#) [TRA9020S3PBN-001](#) [Y4503](#) [GD5W-28P-NF](#) [MA9-7N](#) [GD53-25](#) [GD5W-21P-NF](#) [C37](#) [MAF94051](#) [MA9-5N](#) [EXD420PL](#) [B1322NR](#) [QWFTB120](#) [MAF94271](#) [MAF94300](#) [GPSMB301](#) [FG4403](#) [AO-AGSM-OM54](#) [5200232](#) [MIKROE-2349](#) [WCM.01.0111](#) [MIKROE-2393](#) [MIKROE-2352](#)