

**Description:**

SMD 22x6x1.9 GPS&amp;GLONASS Active Antenna

**PART NUMBER: ANT8010JLC1B1516A**
**Features:**

- Size : 22.0x6.0x1.9 mm
- Support GPS & GLONASS system
- High radiation efficiency
- Integrated LNA
- Flexible cable/connector option
- RoHS compliant

**Applications:**

- Tablet
- Navigation device
- Telematics box
- Tracker

**Ceramic Patch Antenna ELECTRICAL SPECIFICATIONS**

<b>Description</b>	<b>VALUE</b>
<b>Dimension</b>	8.0×1.0×1.0 mm <sup>3</sup>
<b>Centre Frequency</b>	1575 - 1602 MHz
<b>Bandwidth</b>	75 MHz (Typ.)
<b>Gain</b>	GPS 1575 MHz : 3.62 dBi (Typ.) GLONASS 1602 MHz : 3.71 dBi (Typ.)
<b>VSWR</b>	2.0 Max.
<b>Polarization</b>	Linear Polarization
<b>Efficiency</b>	GPS 1575 MHz : 57.72% GLONASS 1602 MHz : 57.59%

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

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**Description:**
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**LNA ELECTRICAL SPECIFICATIONS**

<b>Description</b>	<b>VALUE</b>
<b>Centre Frequency</b>	1575 MHz & 1602 MHz
<b>Gain</b>	1575 MHz : 20.7 ± 1 dB 1602 MHz : 20.7 ± 1 dB
<b>Output VSWR</b>	2.0 (Max.)
<b>Noise Figure</b>	1575 MHz : 1.86 dB (Typ.) 1602 MHz : 1.97 dB (Typ.) 40dB min 1.0 ~ 960MHz 20dB min 1427~1463MHz 20dB min 1710~1785MHz 25dB min 1850~1980MHz 40dB min 2401~2483MHz
<b>SAW Filter (Out of Band Attenuation)</b>	3.0 ± 0.3V
<b>Supply Voltage</b>	3.6 mA (Typ.)
<b>Current Consumption</b>	15.0 mW (Typ.)
<b>Power Consumption</b>	50Ω
<b>Output Impedance</b>	-30 ~ +85 °C
<b>Operating Temperature</b>	< 95% .
<b>Humidity</b>	-40 ~ +125 °C
<b>Storage Temperature</b>	

**NOTE**

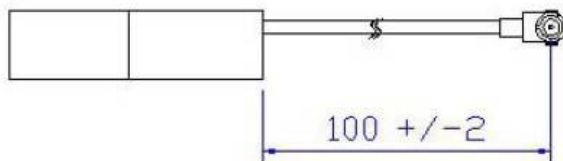
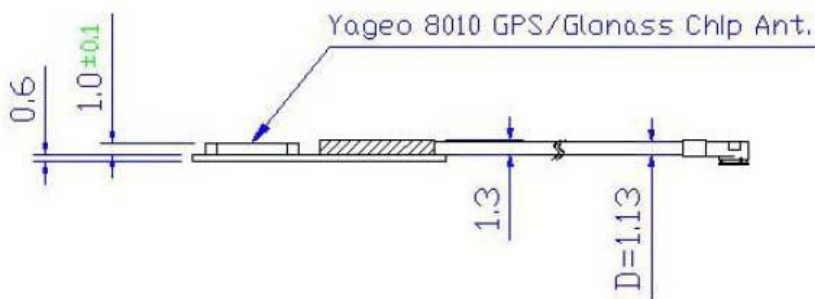
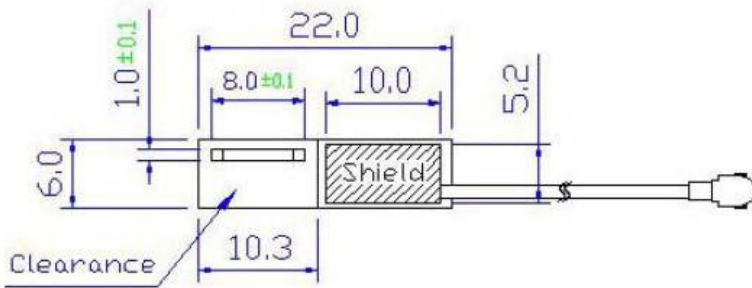
1. Based on 22\*6 mm<sup>2</sup> ground plane (with customer's housing)
2. Centre frequency will be offset to working frequency while changes of customer's housing and ground plane.
3. Please contact local sales if you need customized design to gain optimum antenna performance.

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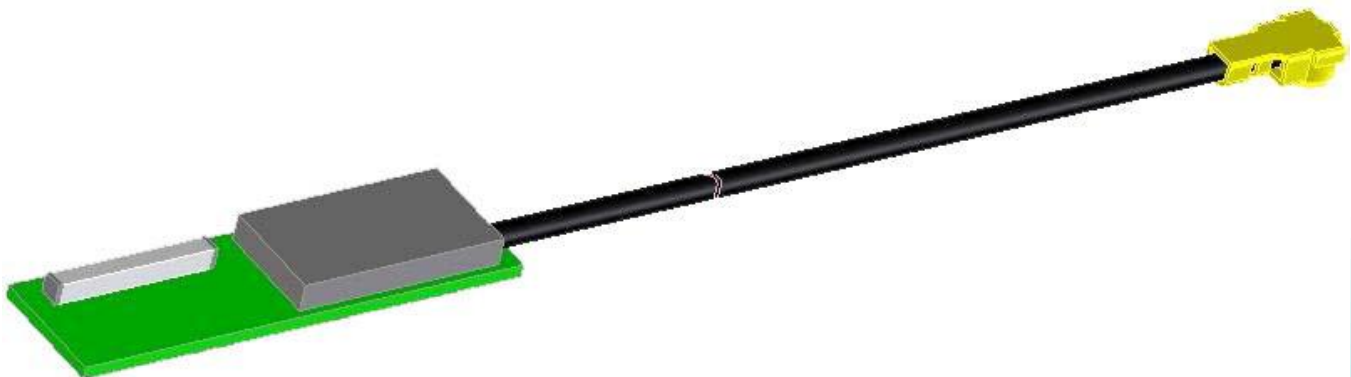
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**ELECTRICAL SPECIFICATIONS**



Unit : mm

Length	22.0 +/- 0.2 mm
Width	6.0 +/- 0.2 mm
Thickness	1.9 ~ 2.1 mm
Cable	Diameter= 1.13 mm ; Length= 100 mm ; Black
Connector	I-PEX 20428
Shielding Case	10 × 5.2 × 1.3 mm <sup>3</sup>



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**Description:**

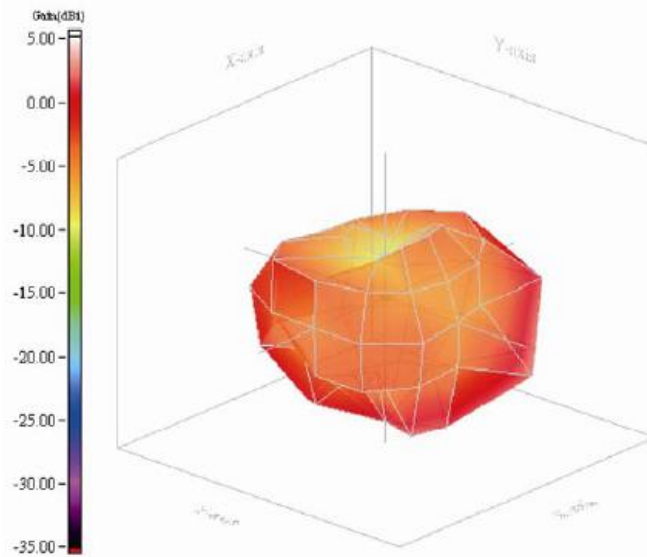
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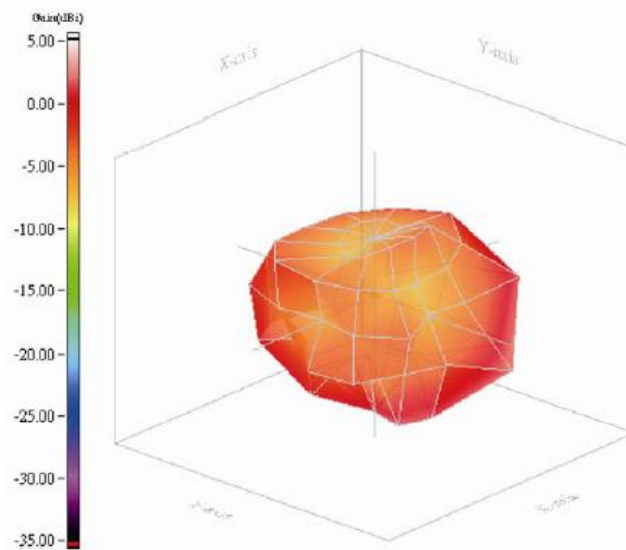
Test frequency

1575.00MHz



Test frequency

1602.00MHz



Radiation pattern

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**REVISION HISTORY**

Revision	Date	Description
Version 1	Nov. 23, 2020	- New issue

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