

Shenzhen DreamLNK Technology Co., Ltd.
 深圳市骏晔科技有限公司

GPS+BD Ceramic Built-in Antenna

Product Specification

| | | | |
|------------------------|------------|---------------------------|-------------------|
| Client Name | | Frequency Band | 1560-1572.42±3MHz |
| Wire Name | | Version | A1 |
| Customer's Part Number | | DreamLNK's Part Number | 805 |
| RF Designer | James Wang | RF Manager | Knight Ai |
| Structural Designer | | Structural Design Manager | |
| Technical Director | | Date | 2018-07-16 |

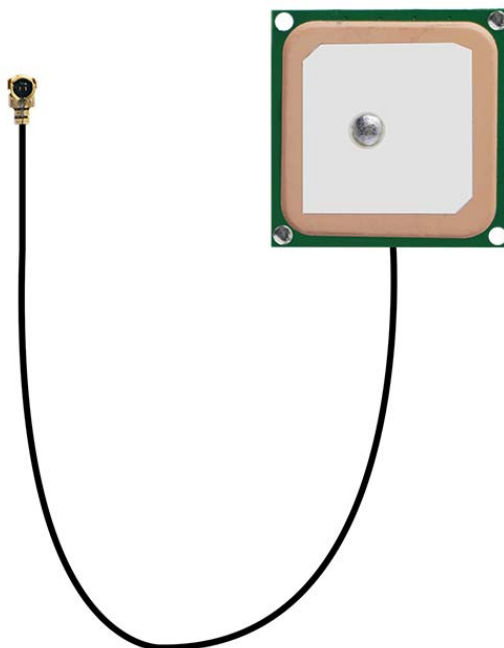
Client confirmation:

Whether the product meets your requirements? OK NG

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1. Photo

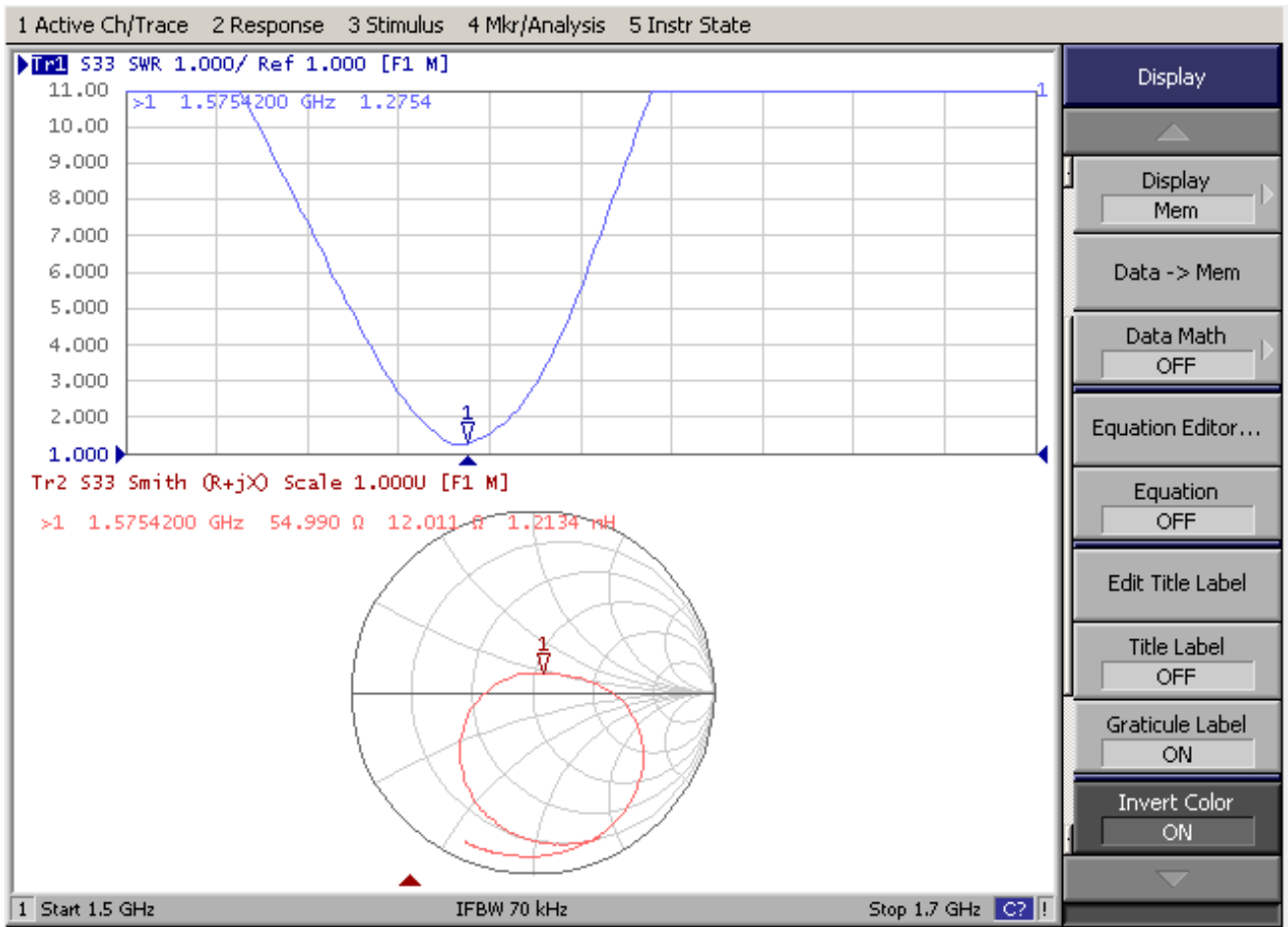


2. Parameters

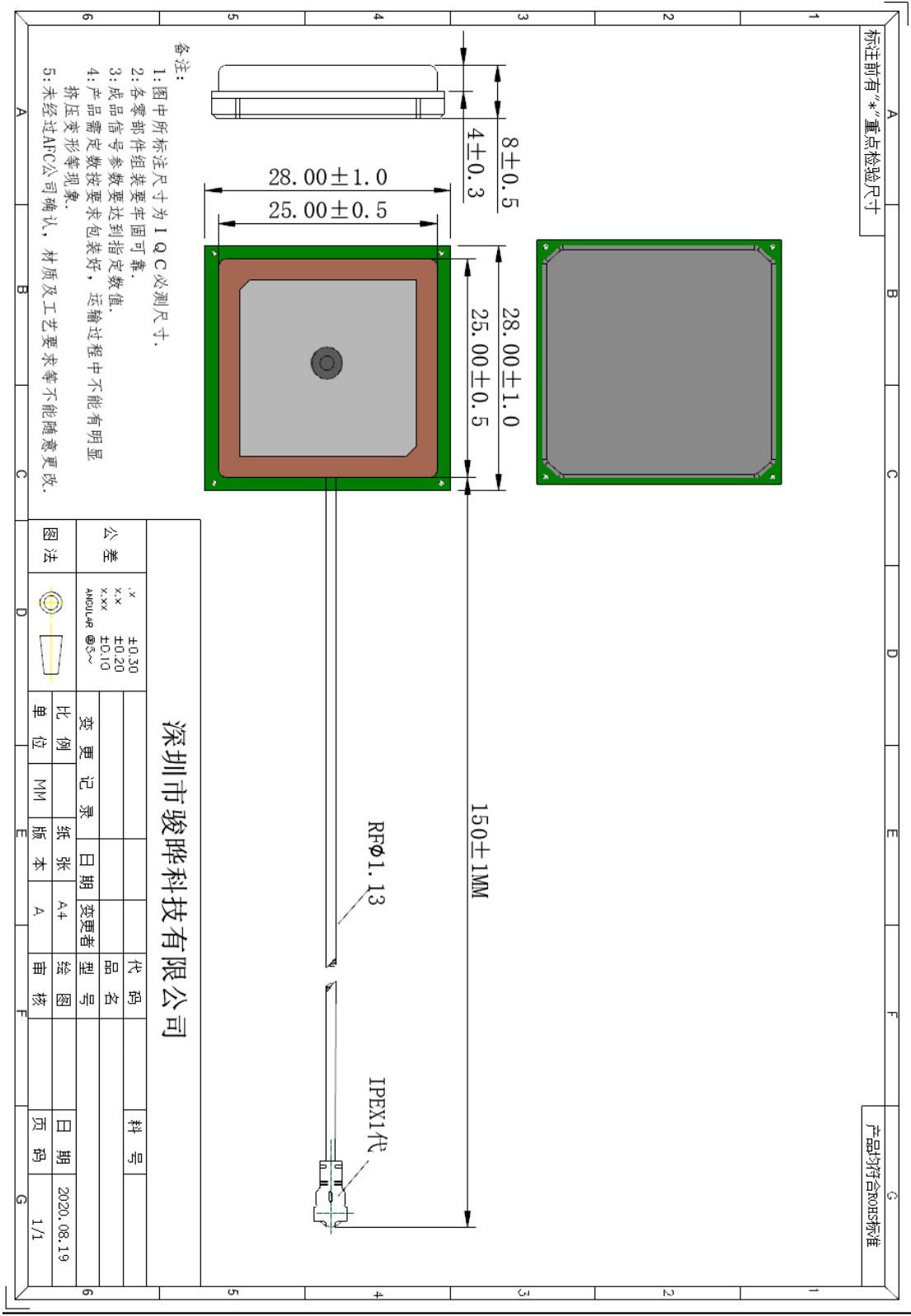
| Test parameters | | | |
|---------------------------|------------------------|---------------------|-----------------------|
| Product Name | GPS+BD Ceramic Antenna | Model No | 805 |
| Electrical Specifications | | | |
| Frequency Range | 1560-1572.42 ± 3MHz | Polarization | Circular polarization |
| Input Impedance | 50 Ω | Radiation direction | Directional |
| VSWR | ≦ 1.5 | Power Capacity | 20W |
| Gain | 4dBi | Amplifier Gain | 28dBi |
| Mechanical Specifications | | | |
| Dimensions | 25x25x8mm | Color | / |
| Connector Model | IPEX-1 | Cable Length | 1.13~150 mm |
| Antenna Material | Ceramic | Voltage | DC3.0~5V |
| Working Temperature | -40℃~+85℃ | Relative Humidity | 40~85% |

The information provided by us should be kept strictly confidential, and it is not allowed to disclose to anyone else or other companies, without prior written consent

3. S11 Data (VSWR, Return loss, Smith)



4. Structure diagram



5. Environmental reliability experiment report

| Item | Test condition | Specification |
|---|---|---|
| Storage environment | Tested temperature, humidity and air pressure as following without specifying: 1. The temperature is $-30\text{ }^{\circ}\text{C} \sim +80\text{ }^{\circ}\text{C}$ 2. Relative humidity is 45% -85% 3. The air pressure is 86kpa-106kpa | The electrical mechanical performance is normal |
| High and low temperature test | Perform 5 cycles between $70\text{ }^{\circ}\text{C}$ and $40\text{ }^{\circ}\text{C}$, then check the appearance quality, under normal conditions 1-2H | The size should meet the requirements for mechanical and electrical performance |
| Resistant to constant heat and humidity | Test Relative humidity: $95 \pm 3\%$, Test temperature: $40\text{ }^{\circ}\text{C}$. After continuous 2H running, take out the sample, and measure its electrical properties within 5 minutes, put the sample in a normal condition for another 1-2H, check the appearance quality | The size should meet the standard, and meet for mechanical and electrical performance |
| Vibration test | Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M / S, frequency of sweeping cycle: 30 times | Normal electrical and mechanical performance |

6. Contact us

Shenzhen DreamLnk Technology Co., Ltd

★ Data collection, Smart home, Internet of Things applications, Wireless remote control technology, Remote active RFID, Antennas ★

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