

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

GPS + BD Two-in-One Mouse Shape Antenna

Product Specification

Client Name		Frequency Band	1560-1572.42±3MHz
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	804
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

# Contents

Cover .....	1
Contents .....	2
1. Photos .....	3
2. Parameters .....	3
3. S11 Data .....	4
4. Structure diagram .....	5
5. Environmental reliability experiment report .....	6
6. Contact us .....	6

## 1. Photos

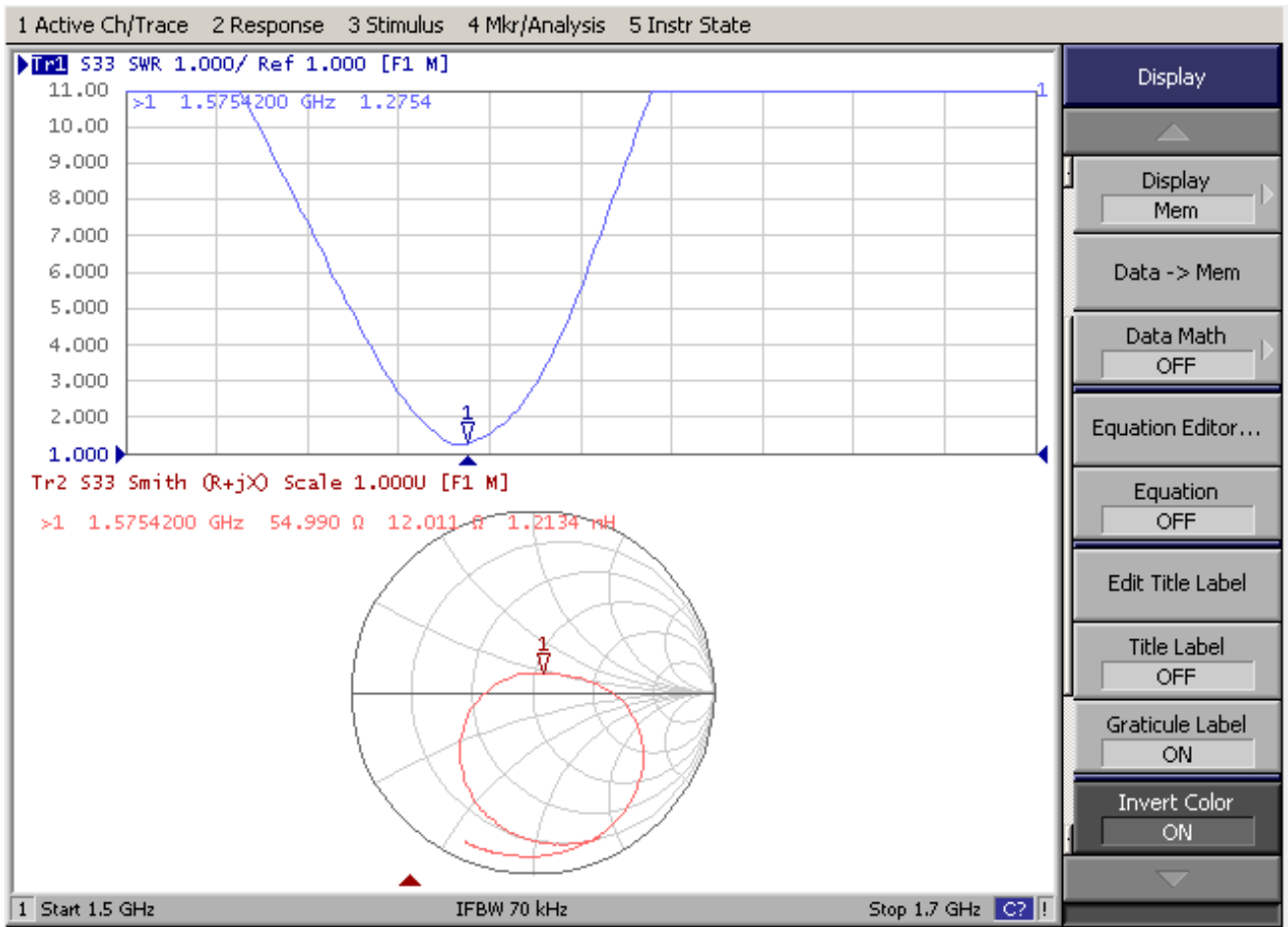


## 2. Parameters

Test parameters			
Product Name	GPS+BD Mouse Shape Antenna	Model No	804
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	50x39x16.8mm	Color	Black
Connector Model	FAKRA	Cable Length	2000 mm
Antenna Material	ABS & COPPER	Voltage	DC3.0-5V
Working Temperature	-30℃~+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

版本	说明	审核	日期	批准	日期

部件材质工艺说明:

序号	物料名称	产品描述	数量
①	Antenna element	25*25*4 Ceramics	1
②	Installation method	3M Glue	1
③	COVER	φ50*39mm ABS BLACK	1
④	CABLE	RG174 Copper COAXIAL CABLE 50ohm BLACK	1
⑤	CONNECTOR	FARRA-C (BLUE)	1
⑥	H.S. TUBE	HEAT SHRINK TUBE	1

备注:

- 1: 图中所标注尺寸为 IQC 必测尺寸.
- 2: 各零部件组装要牢固可靠.
- 3: 成品信号参数要达到指定数值.
- 4: 产品需定数按包装要求包装好, 运输过程中不能有明显挤压变形等现象.
- 5: 未经过 APC 公司确认, 材质及工艺要求等不能随意更改.

量产线路公差		制图	HYWU	日期:	2019.09.28
5-10	±0.05	射频		日期:	/
10-35	±0.07	审核	/	日期:	/
35-50	±0.08	批准	/	日期:	2019.09.28
50-100	±0.09			工艺	/
100 0VE	±0.10			纸架	A4

<b>深圳市骏晔科技有限公司</b>	单位: mm 版本: A1 比例: 1/1 页码: 1/1
	图框编号: ---

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

---

## 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
Drop test	1M high-altitude free fall 3 times, in the direction of mutually perpendicular axes	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 ★

Office Add.: Room 603, Unit C, Zone A, Huameiju Business Center, Xihu Rd., Bao'an District, Shenzhen, Guangdong Province, China

Factory Add.: 5th Floor, Building B, Huazhi Innovation Valley, No. 7 Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan, Guangdong Province, China

TEL.: +86-755-29369047

FAX: +86-755-27844601

Mobile: +86 13760215716

Wechat: wsj\_james

E-mail: [james@dreamlnk.com](mailto:james@dreamlnk.com)

Web: [www.iot-rf.com](http://www.iot-rf.com)