

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

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1. Photos

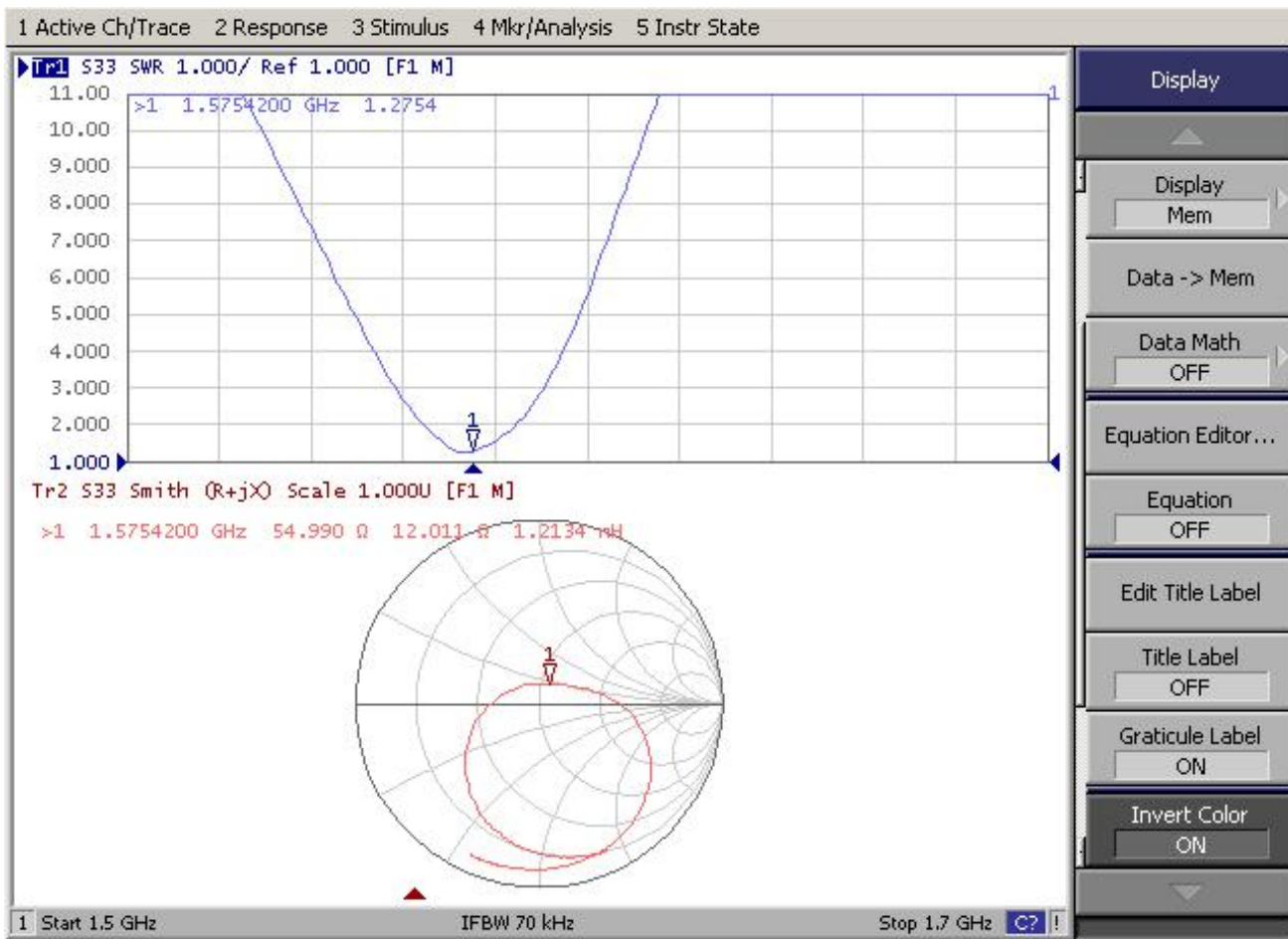


2. Parameters

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

2000 ± 50MM

39mm ± 0.5

29mm

50mm ± 0.5mm

16.80

① ③

④

⑥ ⑤

C型

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 I Q C 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: 产品需定数按客户要求包装好, 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			
5-10	±0.05	制图	HYPW
10-35	±0.06	射频	
35-50	±0.07	审核	/
50-100	±0.08	批准	
100 0VE	±0.09		
	±0.10		

深圳市骏晔科技有限公司			
日期: 2019.09.28	单位: mm	版本: A1	比例: 1/1
日期: /	材料: /	工艺: /	页码: 1/1
日期: 2019.09.28	审核: A4	图框: /	图框编号: /

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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 ★

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