

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

4G SMD Chip PCB Antenna

Product Specification

Client Name		Frequency Band	820-960/1710-2700MHz
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	801
RF Designer	James Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2018-10-11

Client confirmation:

Whether the product meets your requirements?  OK  NG

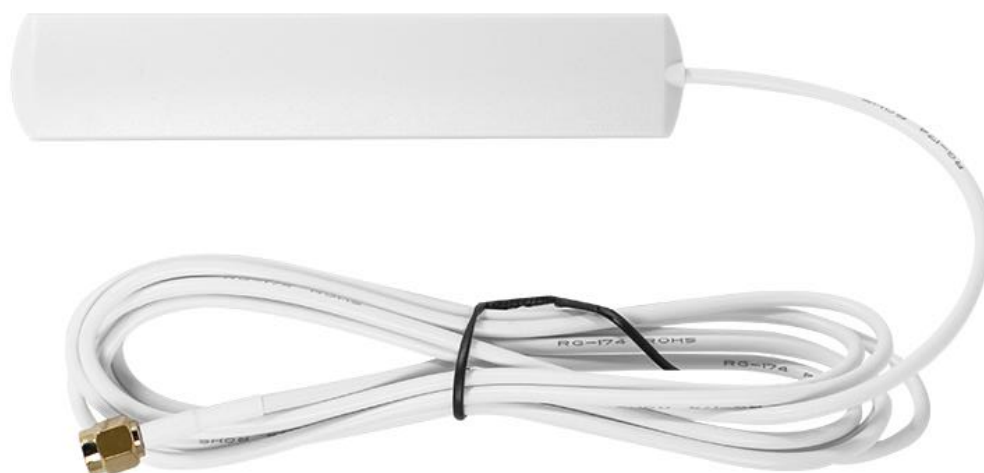
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The information provided by us should be kept strictly confidential, and it is not allowed to disclose to anyone else or other companies, without prior written consent

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## 1. Photos

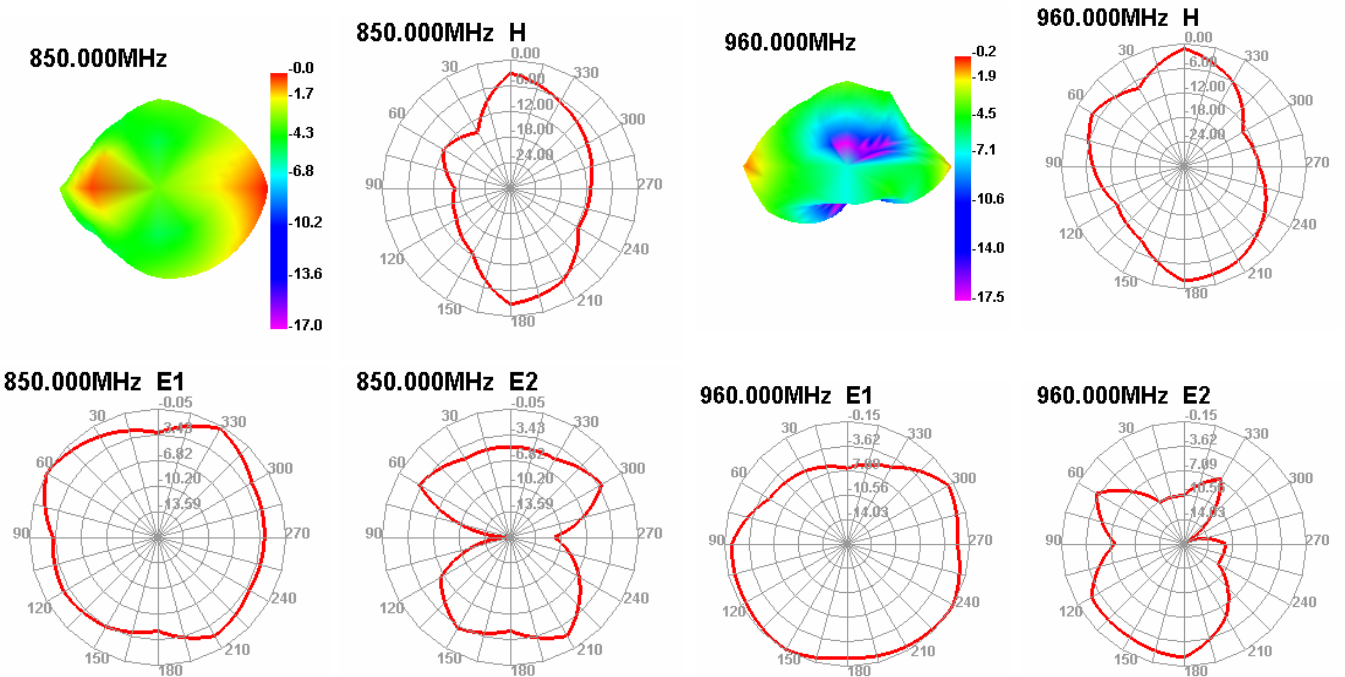
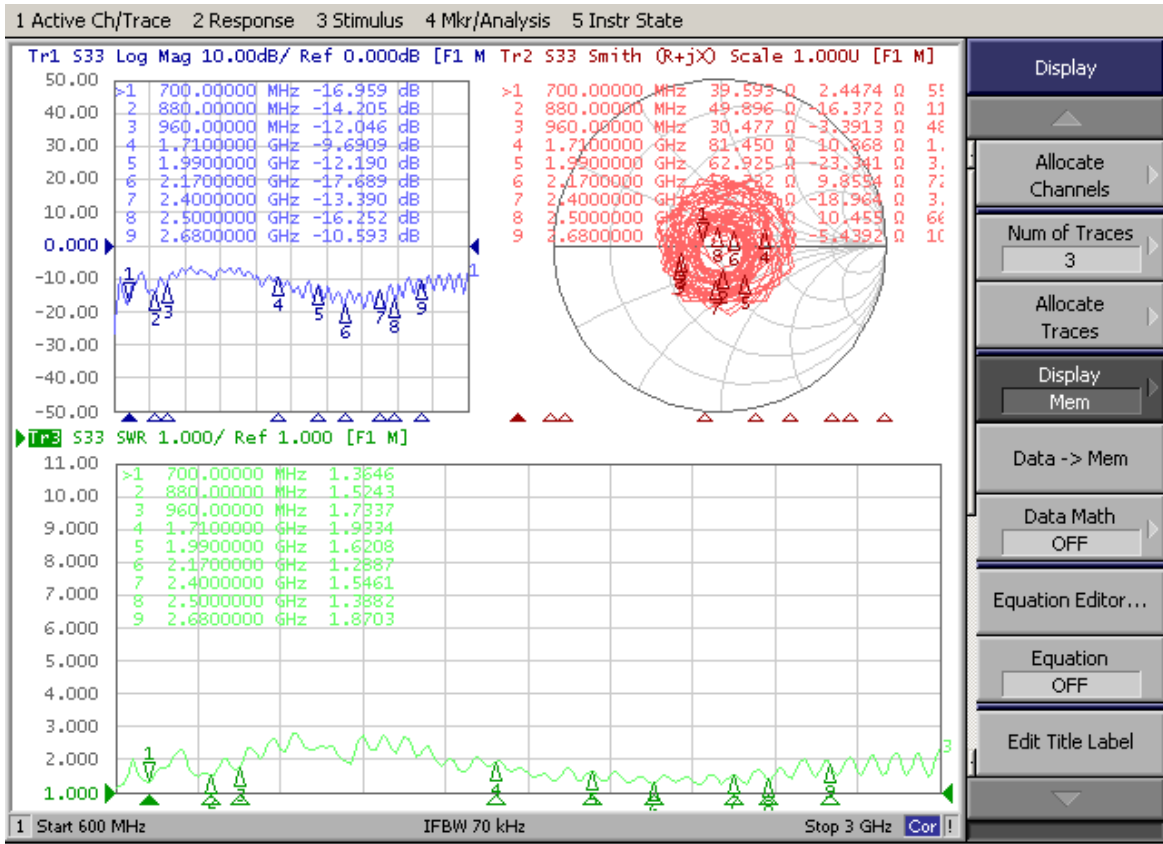


## 2. Parameters

Test parameters			
Product Name	4G SMD Chip PCB Antenna	Model No	801
Electrical Specifications			
Frequency Range	820-960MHz/1710-2700MHz	Polarization	Vertical
Input Impedance	50 $\Omega$	Radiation direction	Full direction
VSWR	$\leq 2.0$	Power Capacity	10W
Gain	5dBi	Bandwidth	/
Mechanical Specifications			
Dimensions	116*21.5mm	Color	White
Connector Model	SMA-J	Cable Length	2000 $\pm$ 5 mm
Antenna Material	ABS & COPPER	Voltage	/
Working Temperature	-30 $^{\circ}$ C~+80 $^{\circ}$ C	Relative Humidity	40~85%

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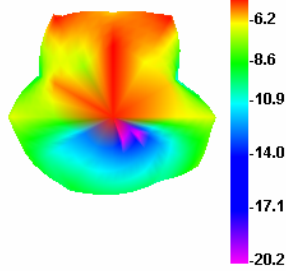
### 3. S11 Data ( VSWR, Return loss, Smith)



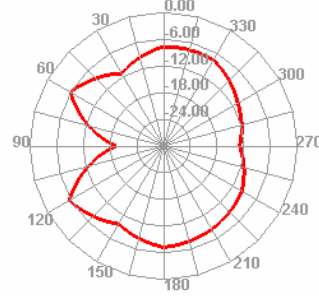
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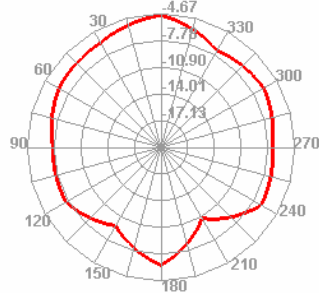
**1700.000MHz**



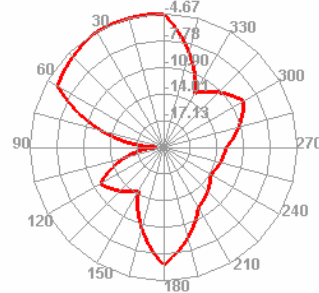
**1700.000MHz H**



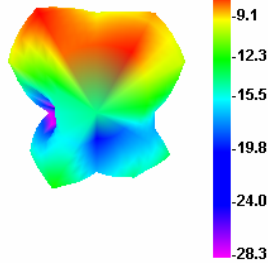
**1700.000MHz E1**



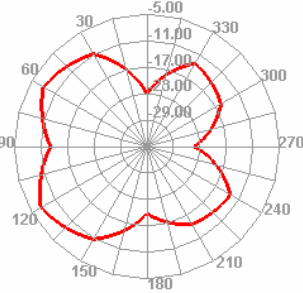
**1700.000MHz E2**



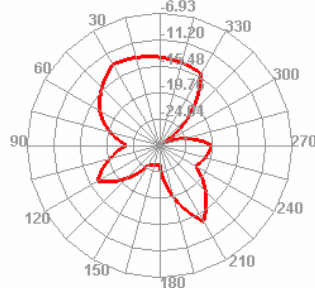
**2700.000MHz**



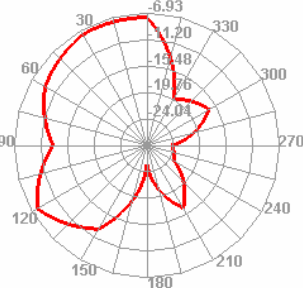
**2700.000MHz H**



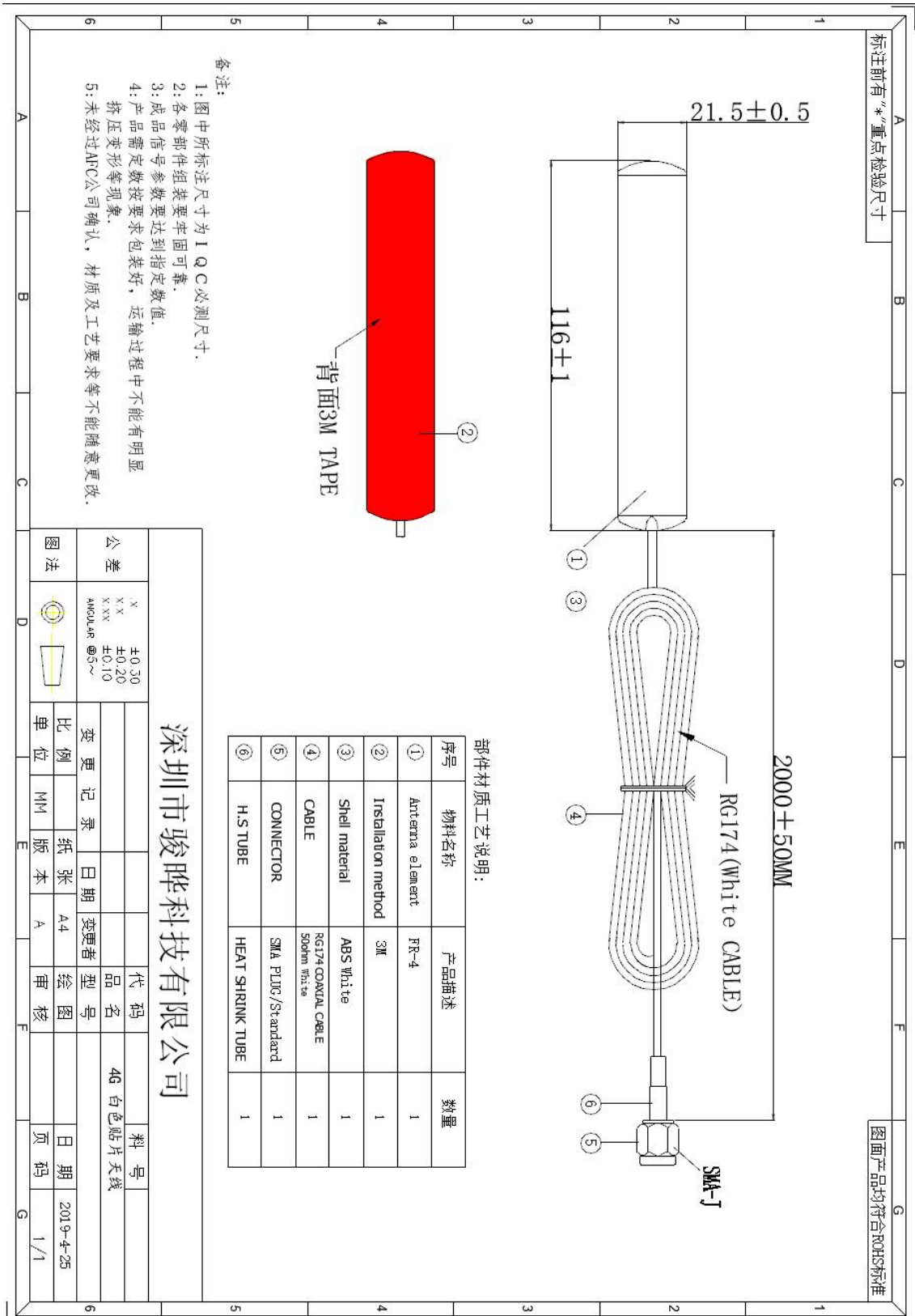
**2700.000MHz E1**



**2700.000MHz E2**



## 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 °C ~ + 80 °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 °C and 40 °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 ± 3%, Test temperature: 40 °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)