DreamLNK

SPECIFICATION

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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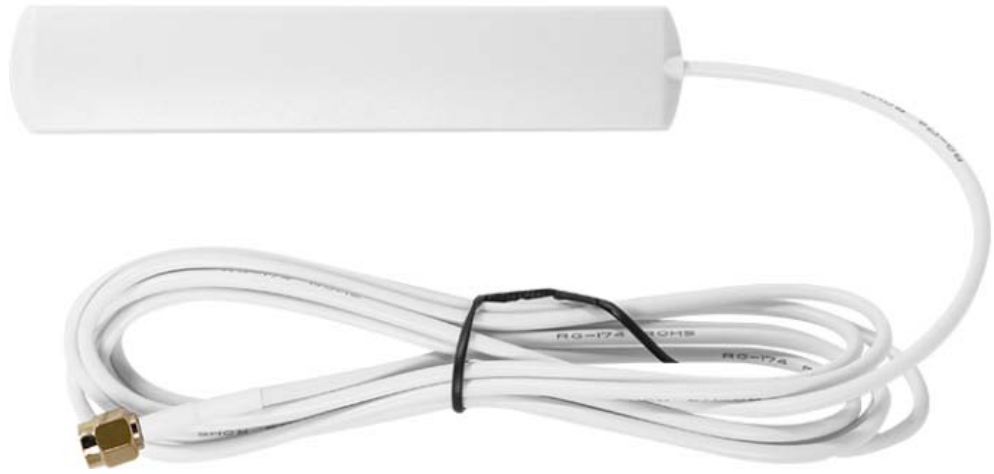
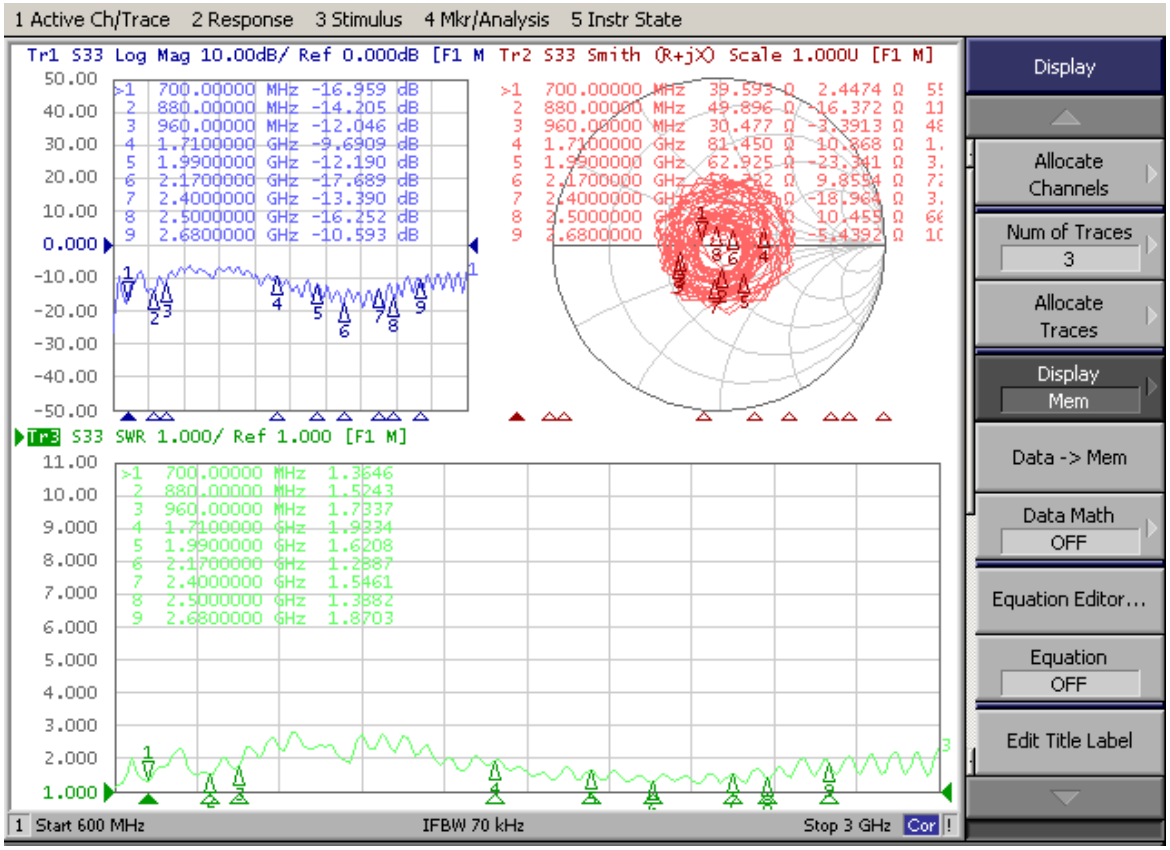
1. Photos

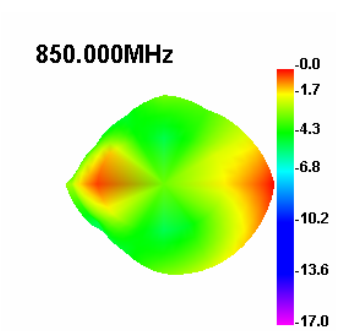


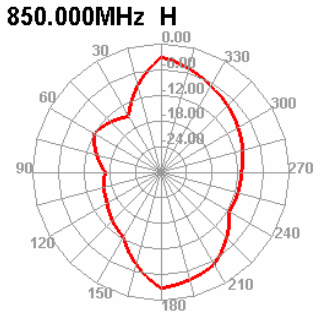
2. Parameters

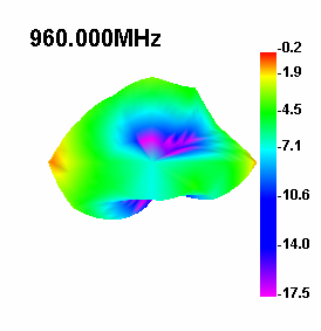
Test parameters			
Product Name	**4G SMD Chip PCB Antenna**	**Model No**	801
Electrical Specifications			
Frequency Range	820-960MHz/1710-2700MHz	**Polarization**	Vertical
Input Impedance	50 Ω	**Radiation direction**	Full direction
VSWR	≦2.0	**Power Capacity**	10W
Gain	5dBi	**Bandwidth**	/
Mechanical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

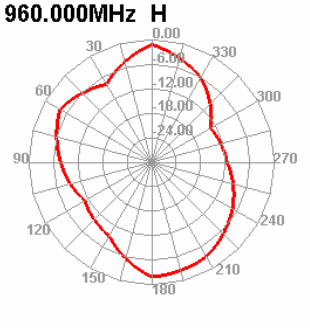
3. S11 Data (VSWR, Return loss, Smith)

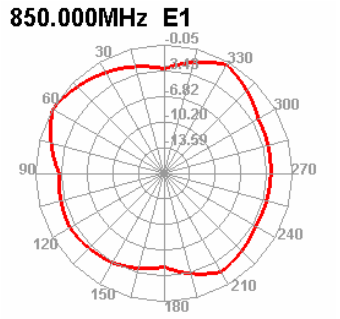


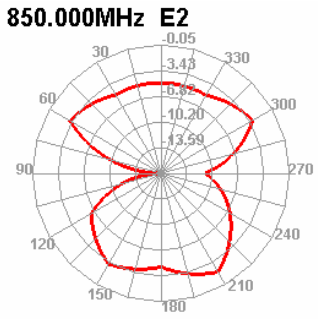


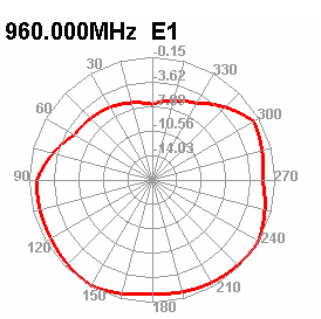


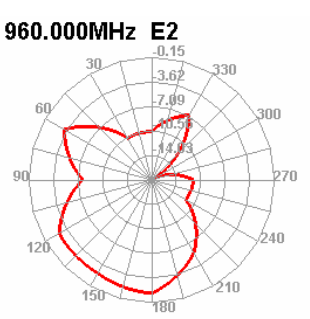


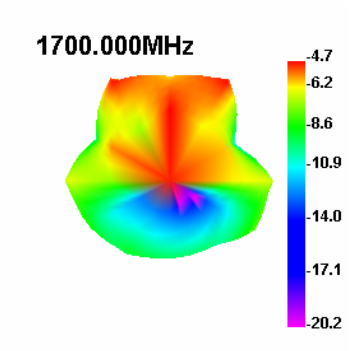


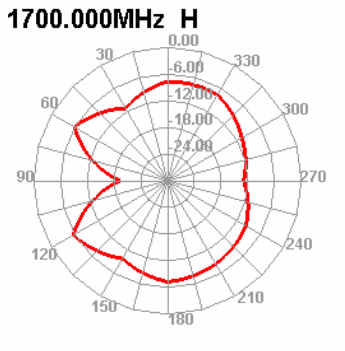


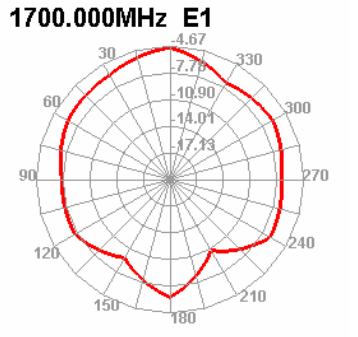


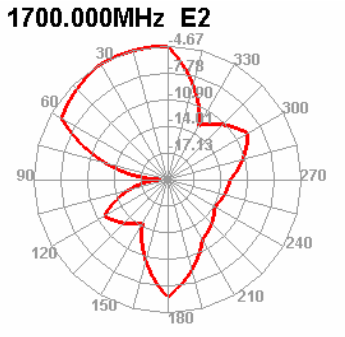


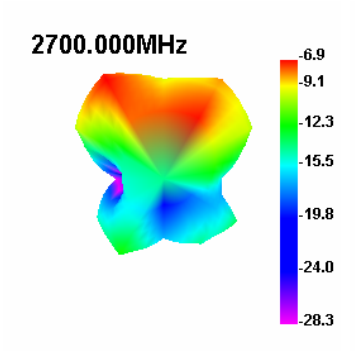


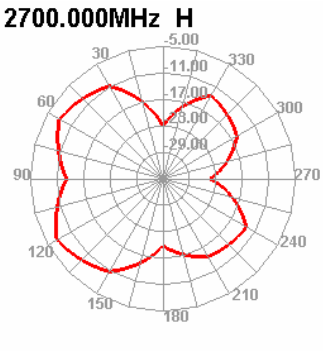

1700.000MHz
-4.7
-6.2
-8.6
-10.9
-14.0
-17.1
-20.2

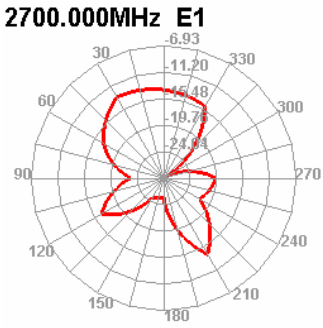

1700.000MHz H
0.00
-6.00
-12.00
-18.00
-24.00
30
330
60
300
90
270
120
240
150
210
180

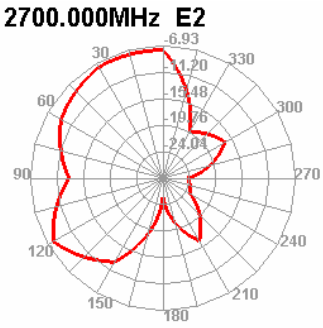

1700.000MHz E1
-4.67
-7.78
-10.90
-14.01
-17.13
30
330
60
300
90
270
120
240
150
210
180


1700.000MHz E2
-4.67
-7.78
-10.90
-14.01
-17.13
30
330
60
300
90
270
120
240
150
210
180

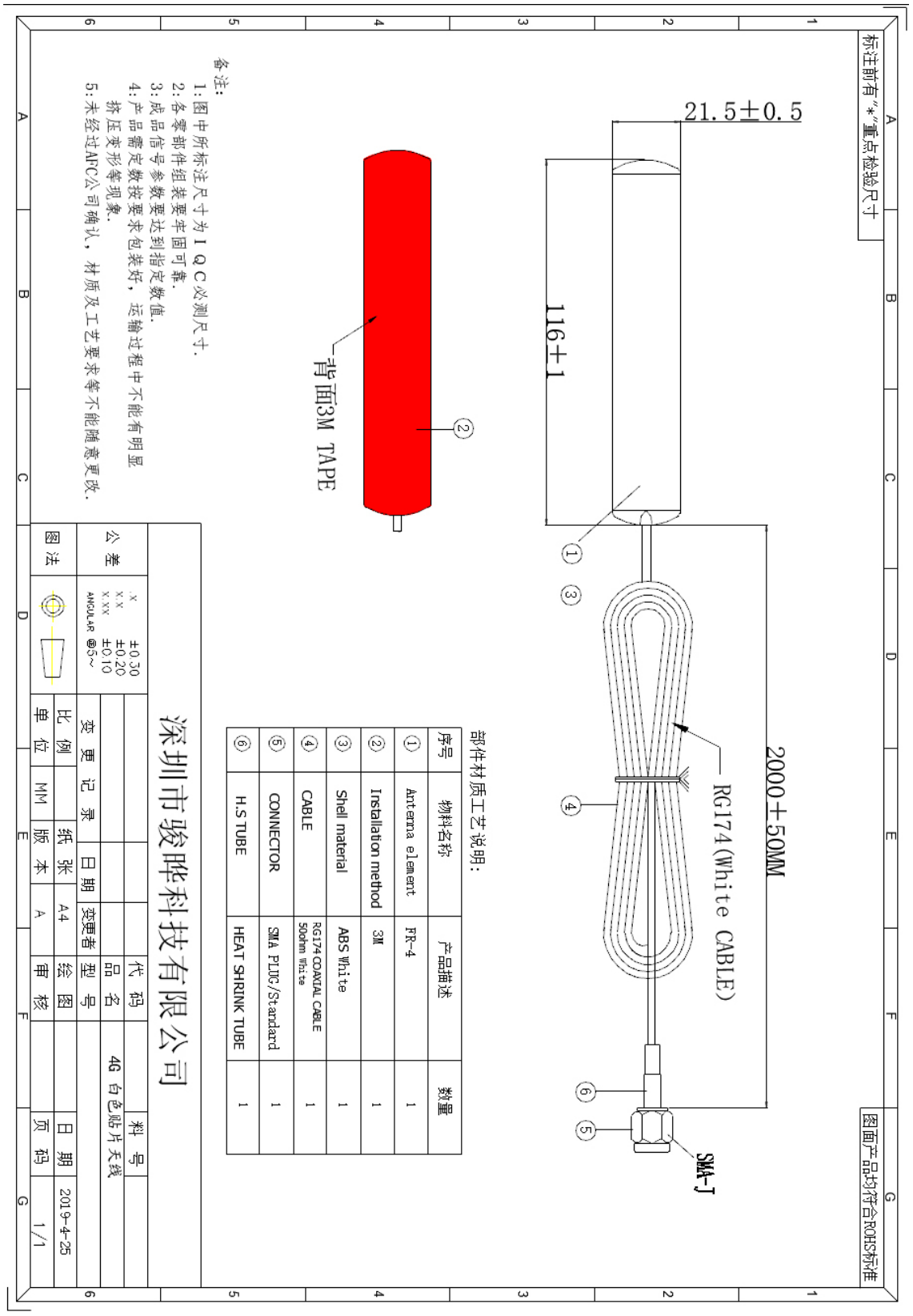

2700.000MHz
-6.9
-9.1
-12.3
-15.5
-19.8
-24.0
-28.3


2700.000MHz H
-5.00
-11.00
-17.00
-23.00
-29.00
30
330
60
300
90
270
120
240
150
210
180


2700.000MHz E1
-6.93
-11.20
-15.48
-19.76
-24.04
30
330
60
300
90
270
120
240
150
210
180


2700.000MHz E2
-6.93
-11.20
-15.48
-19.76
-24.04
30
330
60
300
90
270
120
240
150
210
180

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 ℃ ～ + 80 ℃ 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 ℃ and 40 ℃, 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 ℃. 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, Xinhu 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 **Web**: www.iot-rf.com