



# SPECIFICATION

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

## 2.4G Rubber Rod Wi-Fi Antenna

### Product Specification

Client Name		Frequency Band	2400MHz~2500MHz
Wire Name		Version	V1.0
Customer's Part Number		DreamLNK's Part Number	DL-J022-2.4G
RF Designer	Jason Huang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2023-02-28

Client confirmation:

Whether the product meets your requirements?  OK  NG

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## 1. Photos

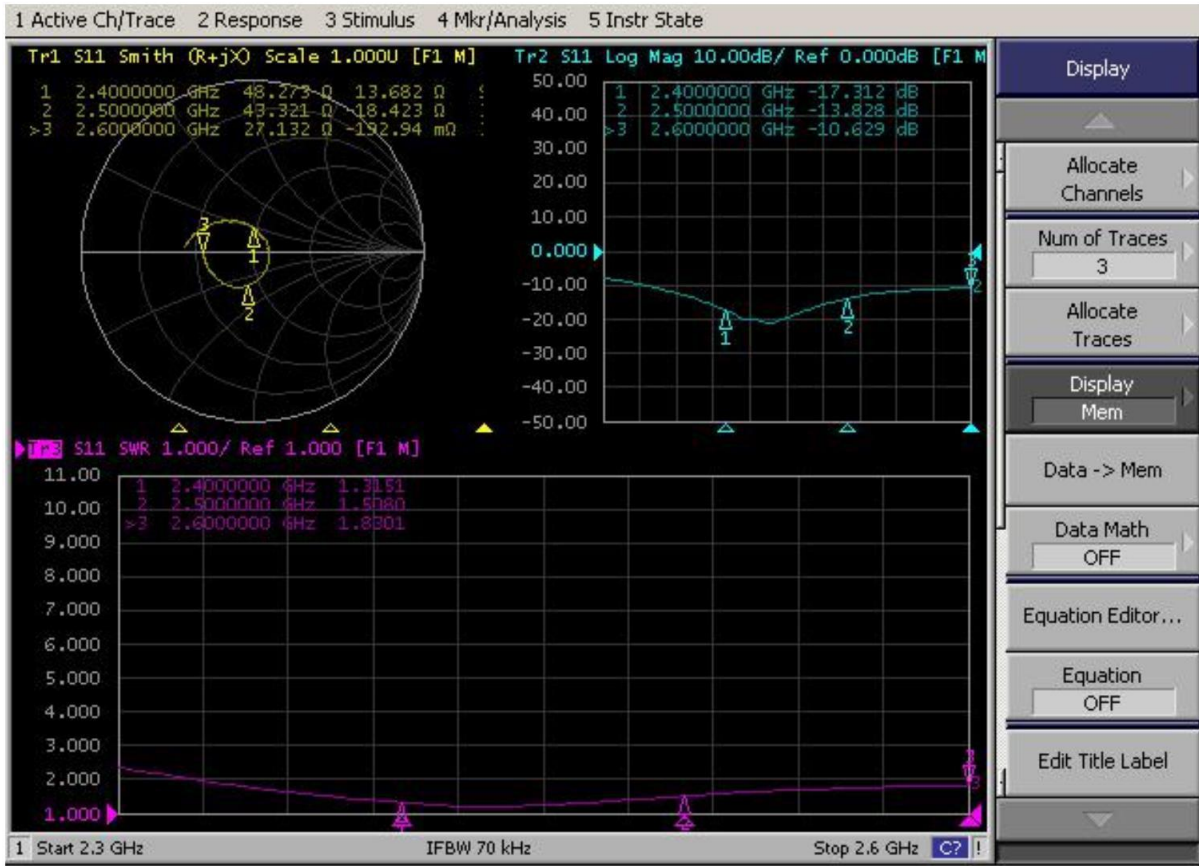


## 2. Parameters

Test parameters			
Product Name	2.4G Rubber Rod Antenna	Model No	DL-J022-2.4G
Electrical Specifications			
Frequency Range	2400-2500MHz	Polarization	Linear
Input Impedance	50 Ω	Radiation direction	Omnidirectional
VSWR	≦ 3.0	Max Power	50W
Gain	3dBi	Bandwidth	100Mhz
Mechanical Specifications			
Dimensions	D7.7 * L76.6±2mm (mm)	Color	Black
Connector Model	RP-SMA-J	Antenna Material	ABS + Copper
Working Temperature	-30℃--+80℃	Storage Temp.	-30--+60℃
IP Level	IP65	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)

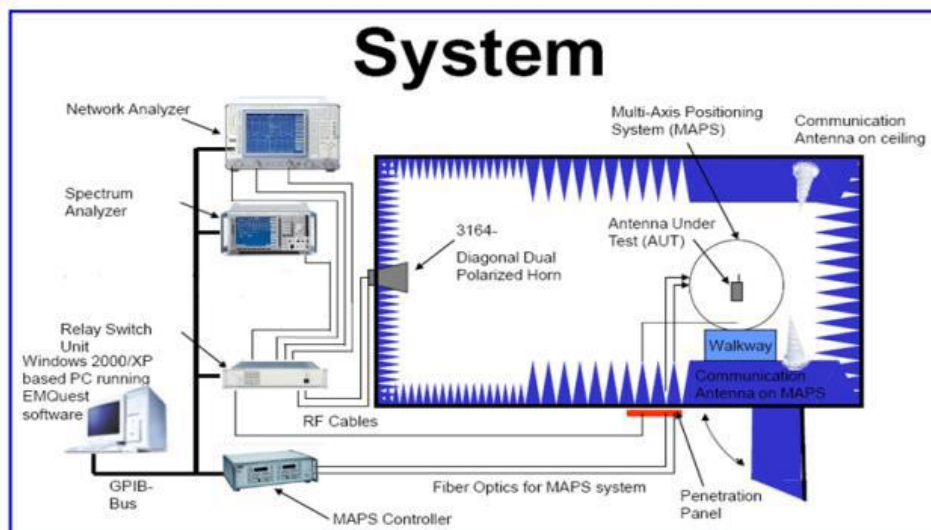


### Testing Equipment and Principle

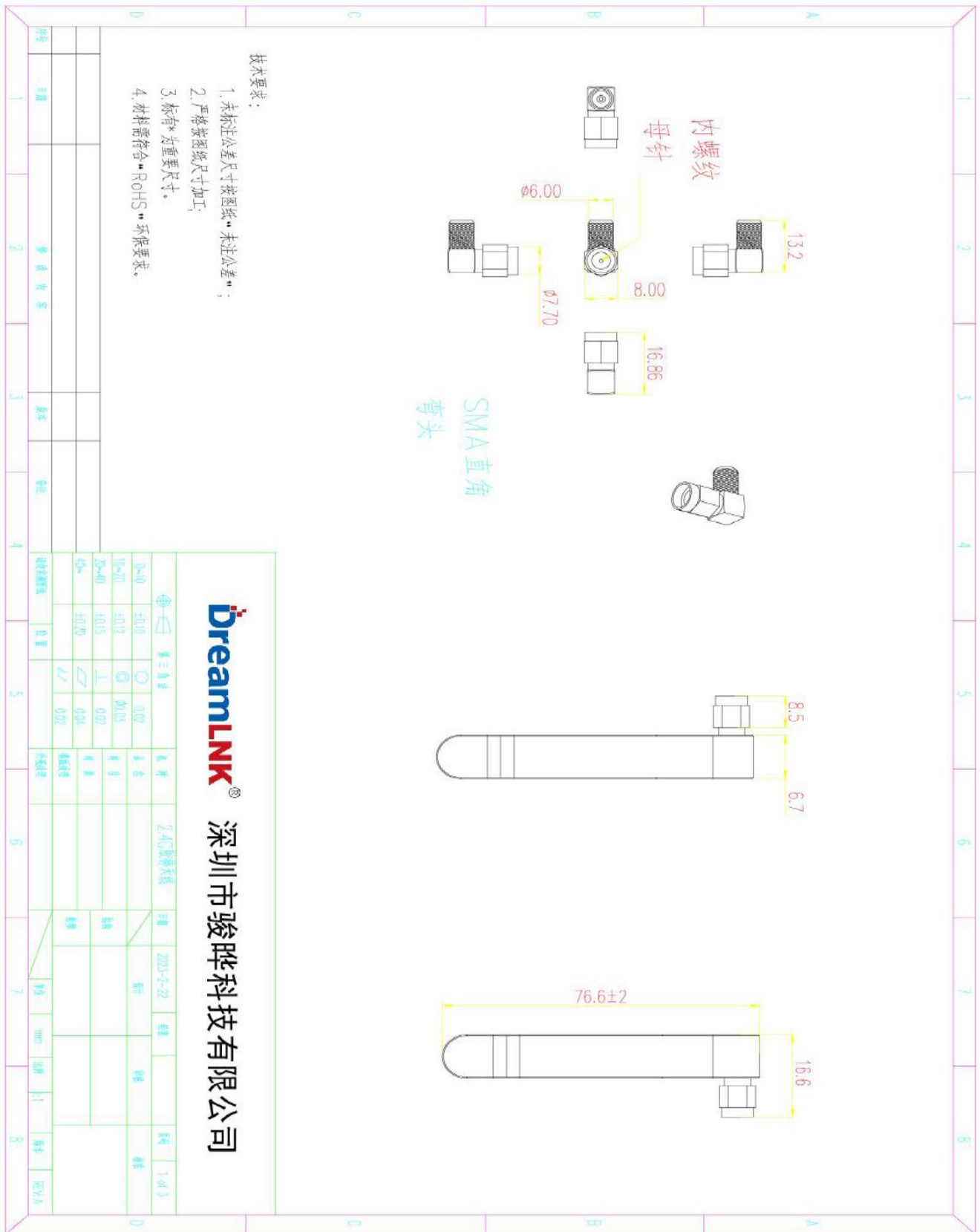
Network Analyzers: Agilent 8753D 5071B

Communications Test Set: Agilent E5515C

### 3D Chamber Test System:



#### 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 ★

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