



SPECIFICATION

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

2.4Ghz Silver-plated Wire Antenna (35mm)

Product Specification

Client Name		Frequency Band	2400MHz-2500MHz
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	DL030-002
RF Designer	James Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2017-07-22

Client confirmation:

Whether the product meets your requirements? OK NG

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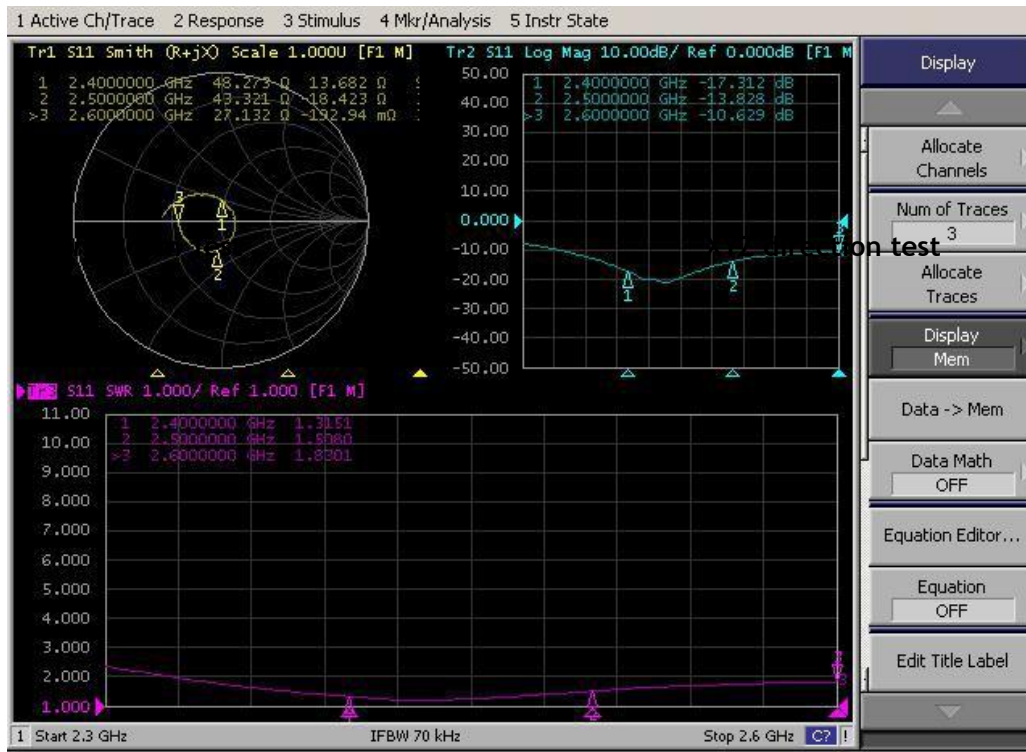
1. Photos



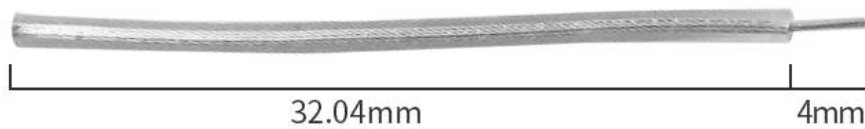
2. Parameters

Test parameters			
Product Name	2.4Ghz Wire Antenna	Model No	DL030-02
Electrical Specifications			
Frequency Range	2400MHz~2500MHz	Polarization	Vertical
Input Impedance	50 Ω	Radiation direction	Omnidirectional
VSWR	≤ 1.5	Max. Power	50W
Gain	2 dBi	Bandwidth	100MHZ
Mechanical Specifications			
Dimensions	35mm \pm 3mm	Radome Color	Transparent
Connector	Solderable Wire	Cable Length	32 \pm 3mm
External diameter	1.3mm	Wire core	0.6mm
Material	Copper-clad aluminum	Wire diameter	4mm
Working Temperature	-40 $^{\circ}$ C--+85 $^{\circ}$ C	Storage Temperature	-30 $^{\circ}$ C--+65 $^{\circ}$ C
Relative Humidity	40~85%		

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



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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