

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

470-860MHZ 5dBi Magnetic Base Whip Antenna

Product Specification

Client Name		Frequency Band	DVB (470-860MHz)
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	X012
RF Designer	James Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2017-03-05

Client confirmation:

Whether the product meets your requirements? OK NG

Contents

Cover	1
Contents	2
1. Photos	3
2. Parameters	3
3. S11 Data	4
4. Structure diagram	5
5. Environmental reliability experiment report	6
6. Contact us	6

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

1. Photos



2. Parameters

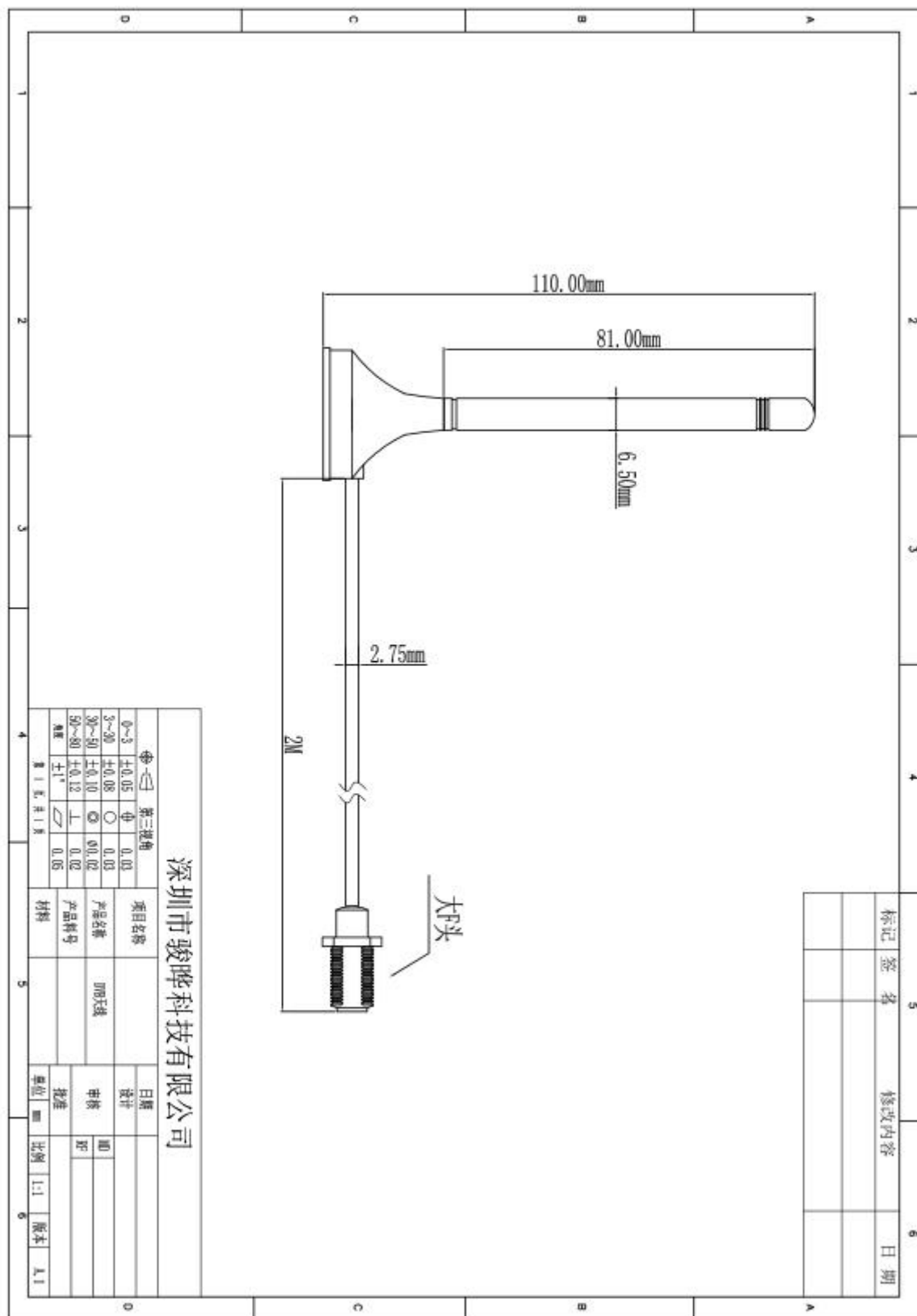
Test parameters			
Product Name	Magnetic Base Whip Antenna	Model No	X012
Electrical Specifications			
Frequency Range	470-860MHz	Polarization	Linear, Vertical
Input Impedance	50 Ω	Radiation direction	Omni-directional
VSWR	≤ 2.0	Power Capacity	50W
Gain	5dBi	Bandwidth	
Mechanical Specifications			
Dimensions	110 \pm 1mm	Color	White
Connector Model	Type F	Cable Length	2000 \pm 1mm
Antenna Material	ABS	Voltage	3~5V
Working Temperature	-10 $^{\circ}$ C~+60 $^{\circ}$ C	Relative Humidity	40~85%

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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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