



SPECIFICATION

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

2400-2500MHZ Sucker Antenna

Product Specification

Client Name		Frequency Band	2400~2500MHz
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	W11
RF Designer	James Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2019-06-24

Client confirmation:

Whether the product meets your requirements? ☐ OK ☐ NG

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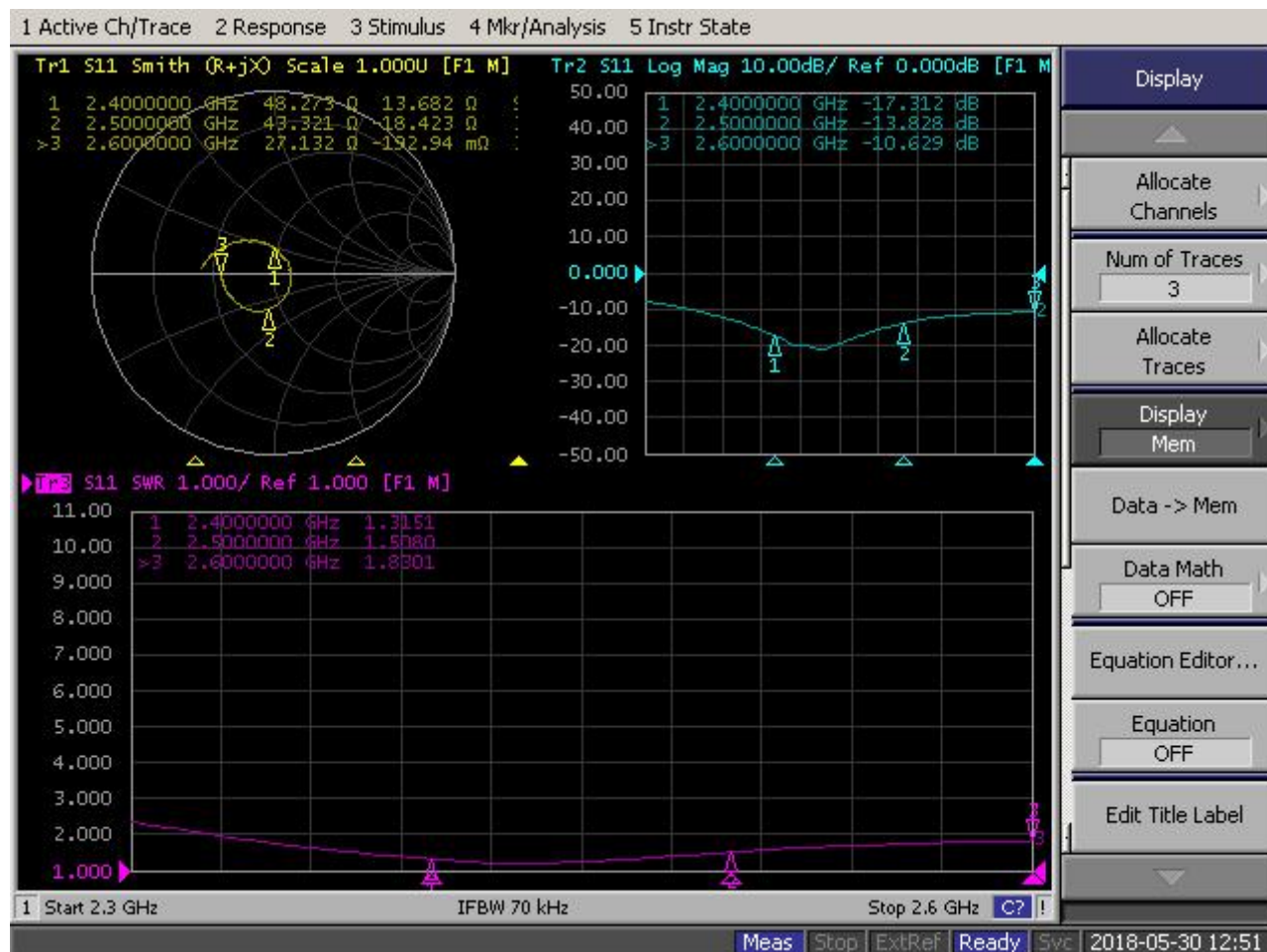
1. Photos



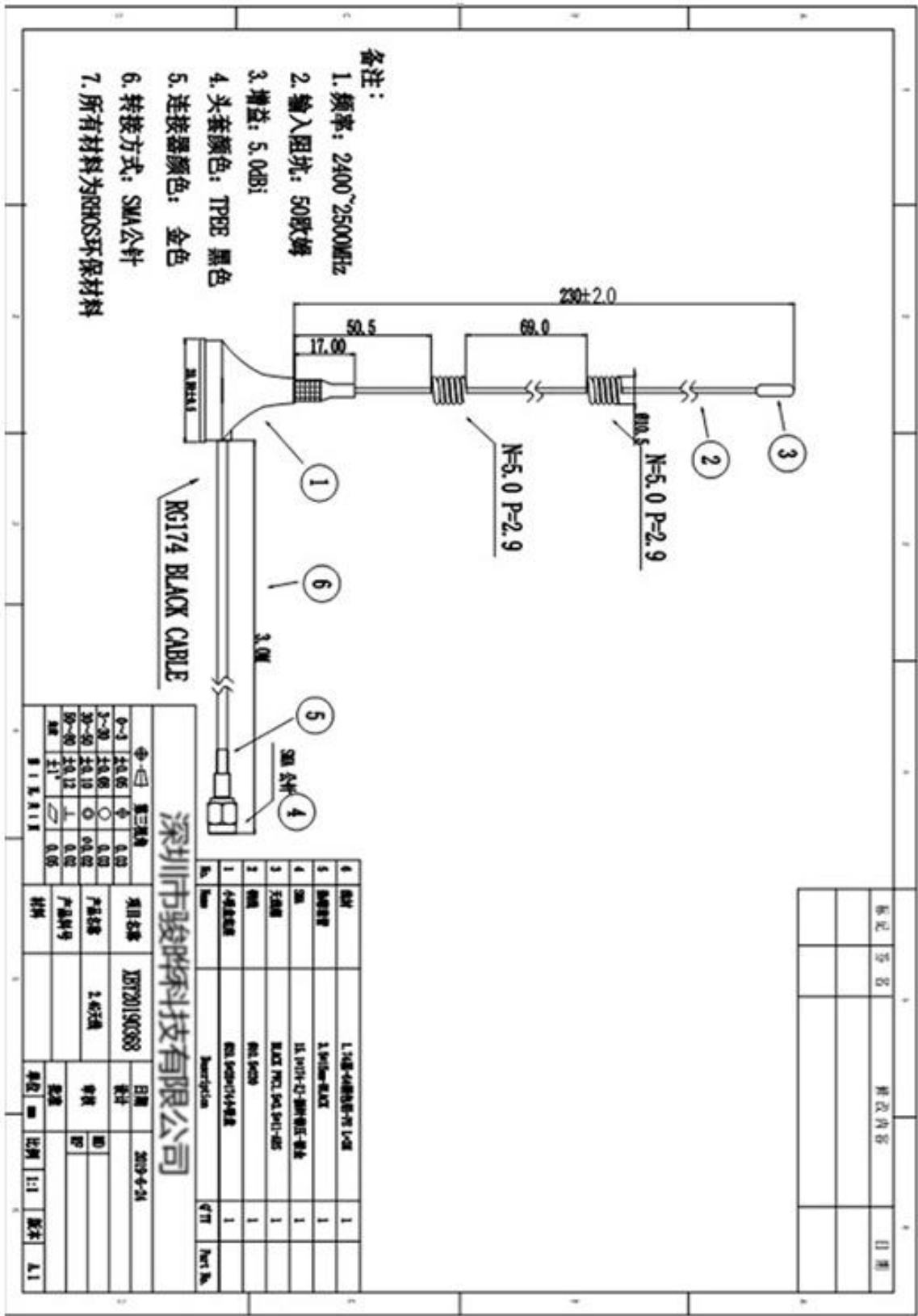
2. Parameters

Test parameters			
Product Name	External Sucker Antenna	Model No	W11
Electrical Specifications			
Frequency Range	2400-2500 MHz	Polarization	Linear, Vertical
Input Impedance	50 Ω	Radiation direction	Omni-directional
VSWR	≤ 1.3	Power Capacity	1W
Gain	5dBi	Bandwidth	
Mechanical Specifications			
Dimensions	260 $\pm$ 1mm	Color	Black
Connector Model	SMA Male	Cable Length	1000 $\pm$ 3mm
Antenna Material	ABS		
Working Temperature	-40 $^{\circ}$ C --+85 $^{\circ}$ 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. Connector BOM

Item	Name	Material	The plating	Qty.
1	SMA Body	Brass, gold plated	D.L2 Ni ₂ / AuÜ .08	1
2	SMA insulator 1	PTFE	-----	1
3	SMA center pin	Brass, gold plated	D.L2 Ni ₂ / AuÜ .1	1
4	SMA split body	Brass, gold plated	D.L2 Ni ₂ / AuÜ .08	1
5	SMA foot protector	TPEE		1

7. 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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