



SPECIFICATION

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

4G Spring Coil Antenna

Product Specification

Client Name		Frequency Band	700-960Mhz / 1710-2700MHZ
Product Name		Version	V1.0
Customer's Part Number		DreamLNK's Part Number	DL-T023-4GW
RF Designer	Peter Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director	Fagan Xu	Date	2020-08-17

Client confirmation:

Whether the product meets your requirements? ☐ OK ☐ NG

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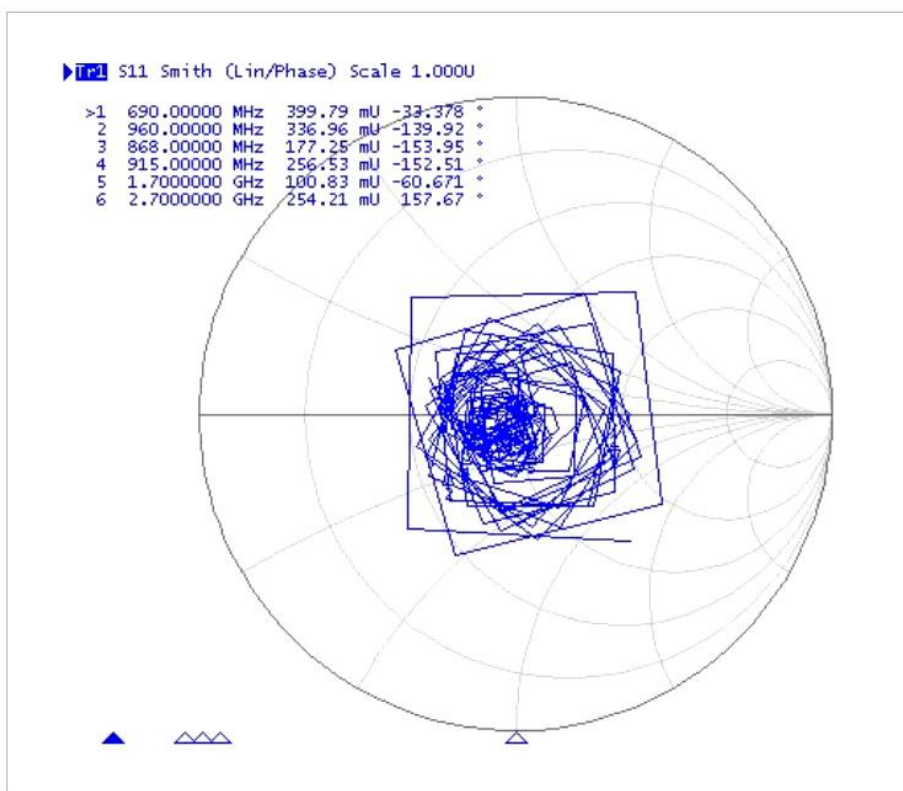
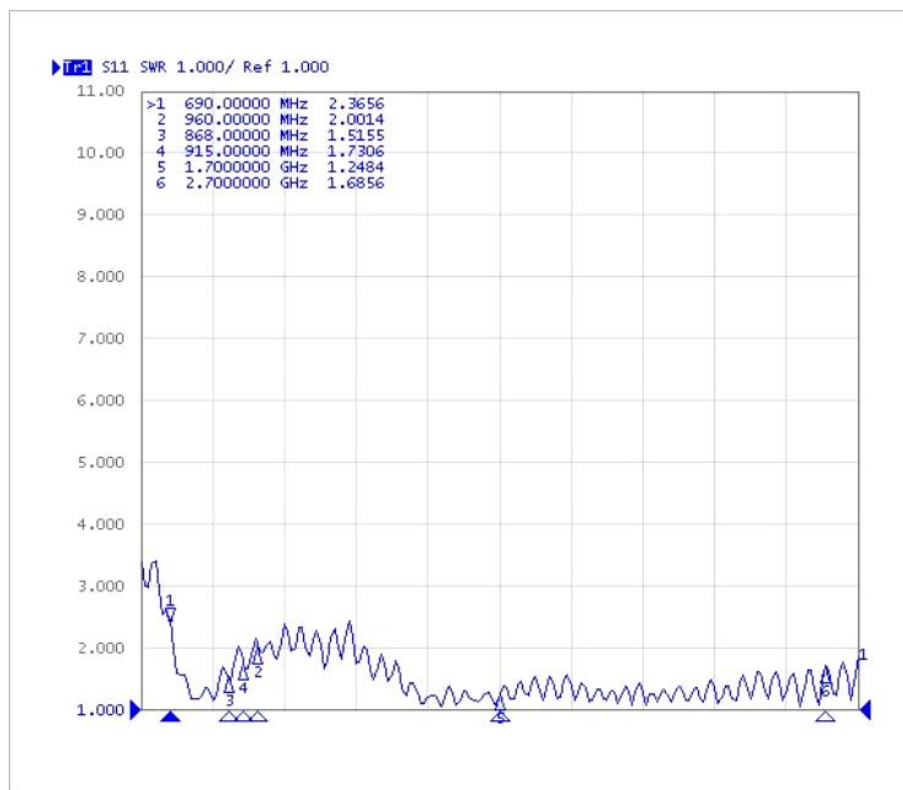
1. Photos



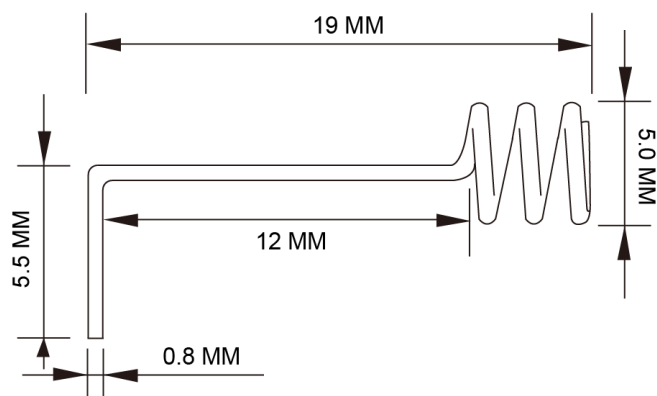
2. Parameters

Test Parameters			
Product Name	4G Spring Antenna	Model No	DL-T023-4GW
Electrical Specifications			
Frequency Range	700-960Mhz/710-2700MHZ	Polarization	Vertical
Input Impedance	50 Ω	Radiation direction	Omnidirectional
VSWR	≤ 1.5	Power Capacity	10W
Gain	3.0 dBi	Bandwidth	/
Mechanical Specifications			
Dimensions	D5.0*19mm	Color	Gold
Installation	Welding on PCB	Antenna Material	Phosphor bronze
Relative Humidity	40-85%	Working Temperature	-40°C-+85°C

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

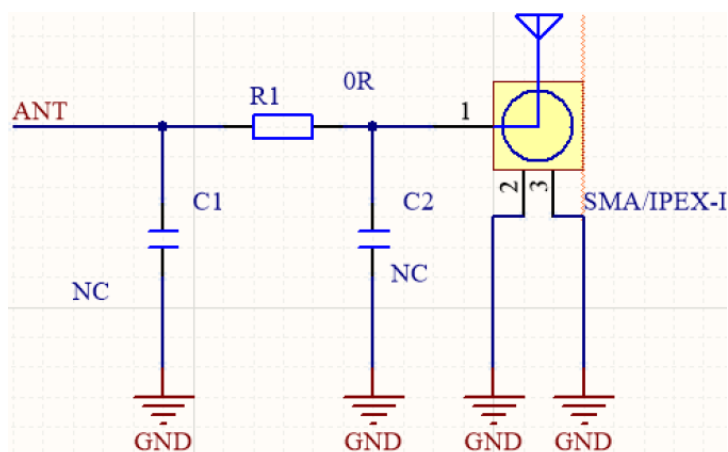
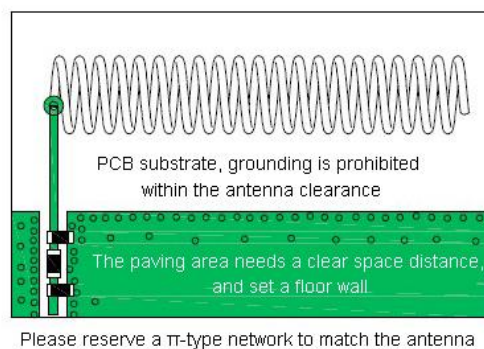
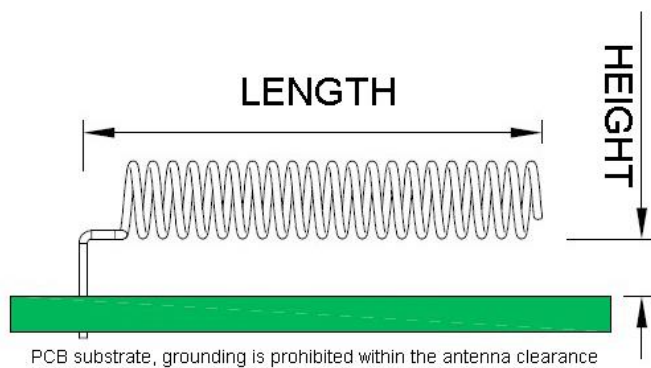


4. Structure Diagram



Wire Diameter	Circle Diameter	Circle Length	Total Length
OD @ 0.8mm	OD @ 5.0mm	7 mm	19 mm

5. Application & Design Guidance



Note: When making the antenna design, many factors need to be considered, such as the product appearance structure, the position of the RF module's signal input and output interface, the location of interference sources inside the product, etc. After taking all these factors into consideration, we can then determine the antenna location, angle, distance from the paved ground, and height from the PCB substrate.

Please reserve a π -type network to match the antenna. When debugging the antenna, be sure to provide a complete product shell and internal PCBA function board, calculate the external interference source and parasitic capacitance into the matching, so that the antenna can achieve the best performance indicators and work efficiency.

The PCB trace of the matching network refers to the 0.5mm line width, and the grounding on both sides of the network refers to the 0.35mm spacing to maintain good impedance characteristics.

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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