



Ningbo Shenghong Communications Equipment Co., Ltd.

Product Specification

Product Name: WIFI Antenna K11-9

Company Code: SHSC3.945.04040

Compile: Lijun

Approved: Panqingsong

Customer:

Customer affirm:

Specification: SHZD2400-2U-K11-9

Customer Code:

Reviewed: Tonghe

File number:

date: 2024.10.31

WIFI Antenna K11-9

I . Product Name:

II . Specification:

III. Technical Parameter:

1. Electrical Characteristics

Frequency range:	2400-2483MHz
Polarization:	Vertical
Max Gain:	1. 5dBi
Max VSWR:	≤ 3.8
Impedance:	50 Ω
3dB beam width:	H:360° E:/
Max.Power:	3W
Lighting protection:	DC Ground

(Determined by the sample)

2. Mechanical Characteristics

Input:	U.FL (male)
Cable type:	1.13 or other
Cable length:	275mm
Cable Impedance:	50 Ω
Radome:	Heat shrink tube/White





Connector pull-out: 2N Min
Radiation material: copper
Colour: White (appoint color)

(Determined by the sample)

3. Working Environment:

Temperature: $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$

Corrosive gas environment: no acidity and no alkalescence in air all around
(contenting other request environment)

IV. Max exterior Dimensions:

L x Φ : about $275\text{mm} \times \Phi 2.5\text{mm}$ (Determined by the sample)

V. Materiel Introduction:

1. General Situation: This product is Designed according to the particular criterion, This antenna was used to The Wireless public-WIFI. This antenna's performance is excellent, figuration is handsome, dependability is well.

2. Package & Stock age: This product should be packed in plastic box, and then put into hard carton; each box with a conformity certificate, which is included product P/N, date, checking stamp, company stamp; each box is sticked with product P/N, package quantity. The stockage condition is: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$; the compared humidity is 80%; being stored in the room without acidity, alkalescency and causticity in air.

3. Exchange Relationship: U.FL-K

4. technics & use: immediately screw on.

JUNPER INTERCONNECTION CO., LTD,
TECHNOLOGY CENTRE

外形图

[illegible]



The Testing

1. Testing time: 2024.10.26

2. Testing personnel: Tonghe

3. Introduction of Antenna test system

We use 24 probe spherical scanning near-field antenna measurement test system, which is introduced from Shanghai EM-Testing company, SG24 spherical array probe scanning near-field test system is on behalf of the international advanced level.

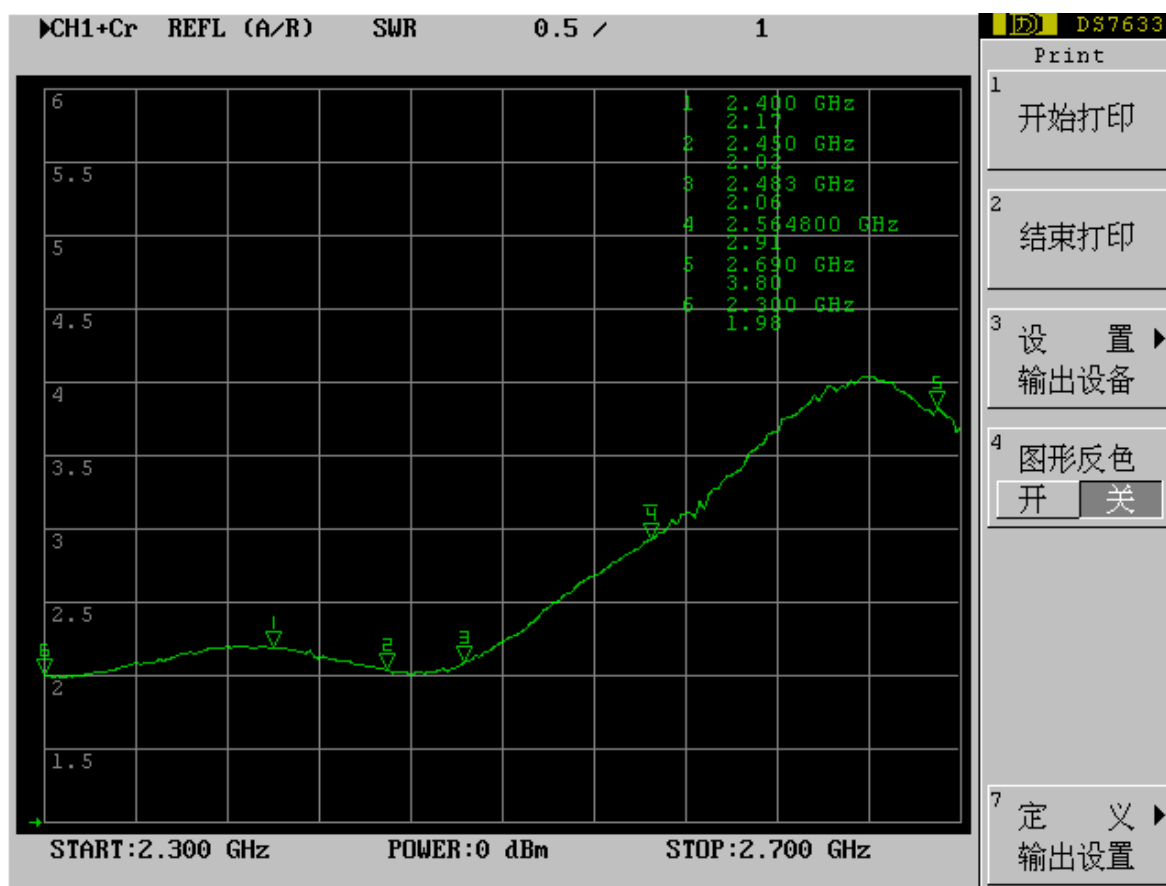
The system use The world's most sophisticated antenna testing technology, not only can meet The international CTIA (The American association of wireless communication and Internet)OTA standards (Mobile Station Over The Air Test Plan ver. 2.2 standard), but also can provide The preciseness and efficiency of active and passive equipment measurement, thus made our antenna Test reached The international advanced level. The system test frequency is 400 MHZ to 6 GHZ, it's suitable for measuring all kinds of antenna .The system is equipped with standard block darkroom, high quality environment-friendly materials, double polarization probe group, high frequency cable, etc., and configured with the superior performance of CMU200 comprehensive test instrument from R/S company, and signal source of N5158A from the United States Agilent, also the system is equipped with a small antenna and laptop mast, simulation model of hands and heads, broadband standard horn antenna (coaxial dipole), standard mobile phone and so on.

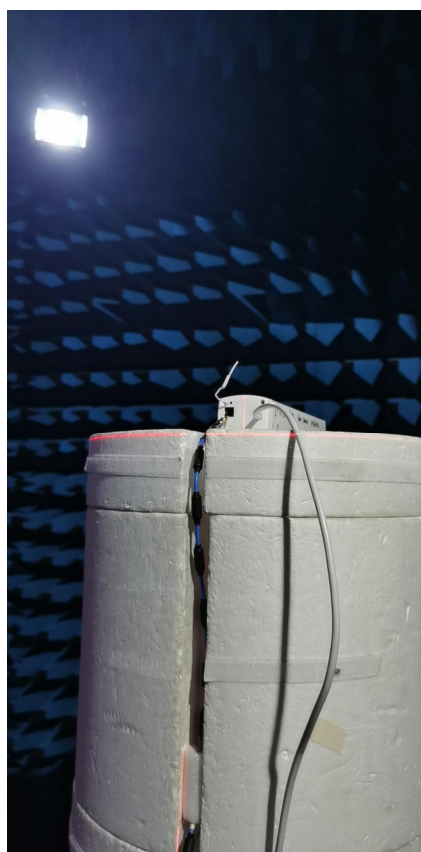
Appendix 1 The Date

Number	Item type		Requiremengt	Result
1	Frequency		2400-2483MHz	OK
2	Band Width		83MHz	OK
3	Polarization		Vertical	OK
4	Max Gain		1.5dBi	OK
5	Max VSWR		<3.8	2.17
6	Beam width	H	360°	360°
		E	/	/
8	Input		UFL-K	OK

Parameters	Antenna Frequency		
	2400MHz	2447MHz	2483MHz
VSWR	2.17	2.01	2.06
Efficiency	43.6%	44.2%	44.5%
Gain	1.39	1.42	1.48

Appendix 2—VSWR





Appendix 3—Beam width

