

APPROVAL SHEET

Customer Name JWIPC TECHNOLOGY CO., LTD.

Product Model 2.4G-WIFI

Customer P/N K4DK-680712-00

Southstar P/N N12-3353-R0A

Date Prepared 2021-12-08

Revision A

Southstar		
Prepare	DQE	R&D
Customer		
PUR	QC	R&D

Manufacturer: Shenzhen Nandouxing Technology Co., Ltd.

Shenzhen address: 10th Floor, Building C6, Hengfeng Industrial City, Hezhou, Xixiang,

Bao'an District, Shenzhen Dongguan address: No. 3, Chigang 1st Road, Humen Town

Tel: 0755-27474071 Fax: 0755-29976316

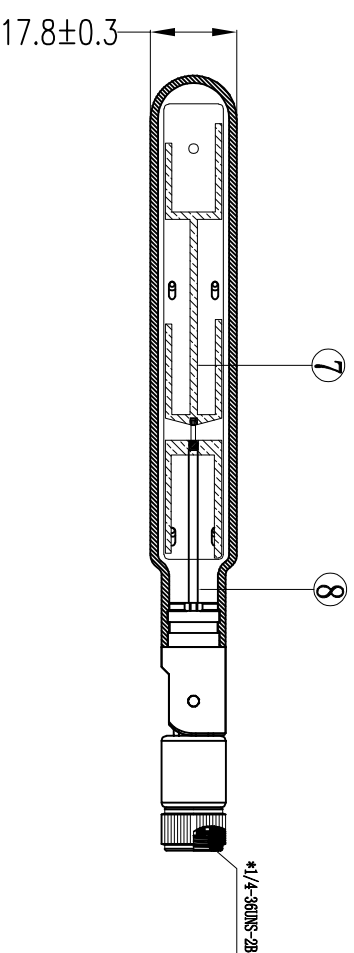
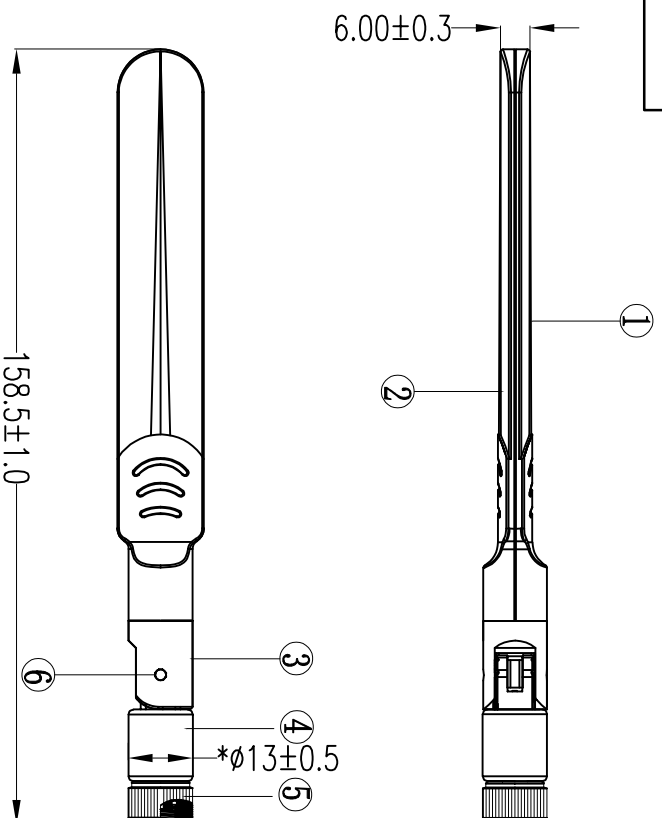
Website: WWW.SZ-SOUTHSTAR.COM

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Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz ; 5150MHz ~5850MHz
VSWR	< 3
Efficiency	>45%
Impedance	50 ± 25 Ohm
Polarization	Linear 2.4G:
Peak Gain	4.46 dBi 5.8G:
Note :	5.52 dBi
B. Material & Mechanical Characteristics	
Material of Radiator	
Cable Type	ϕ 1.78
Connector Type	
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C



Notes:

1. Dimensions marked with "*" are key dimensions, and dimensions without tolerance are tested according to ± 0.20

2. Dimensions without tolerance are tested according to the drawing.

3. Compliant with ROHS

	Third Angle	Project	K4DK-680712-00	Date	2021-12-08				
	± 0.2	Part Name	2.4G/WIFI	Designed by					
	± 0.5	Part No.	N12-3353-R0A	Checked by	MD	雷双露			
	± 0.8				RF	张锦江			
	± 1.0	Material	N/A	Approved by					
± 2.0	Angle $\pm 0.5^\circ$	DWG. NO.	N12-3353-R0A	Unit	mm	Scale	1:1	Rev	A
	N/A								

8	1.78线		棕色		1	
7	PCB	FR-4	绿色		1	
6	销钉	POM	黑色		2	
5	SMA-j-母针	黄铜	黑色		1	
4	下固定座	PC+PBT	黑色		1	
3	上固定座	PC	黑色		1	
2	主体下盖	ABS	黑色		1	
1	主体上盖	ABS	黑色		1	
No.	Name	Material	Color	Treatment	Amount	Remark

Test Equipment & Conditions

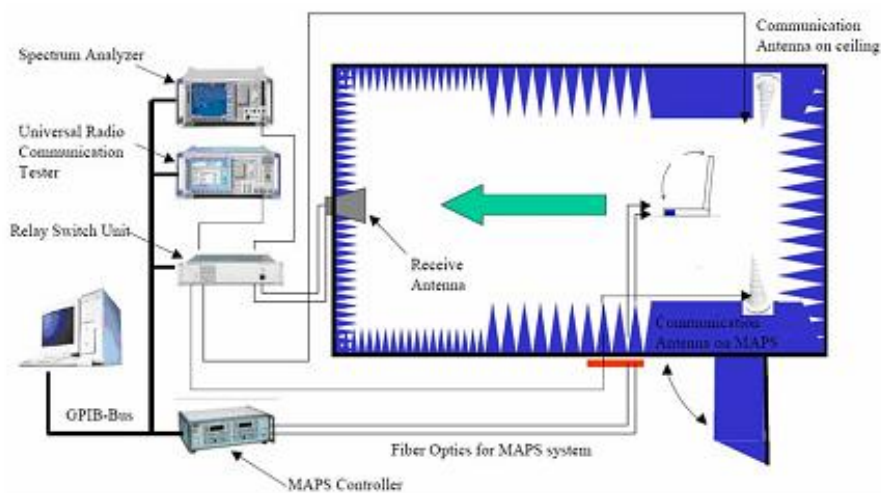
1. Network Analyzers :

Agilent 8753D 5071B

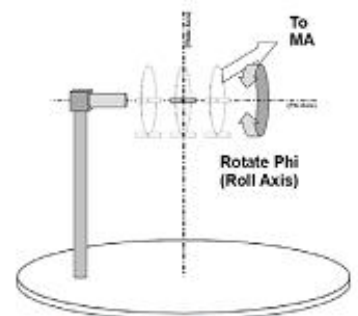
2. Communications Test Set:

Agilent E5515C

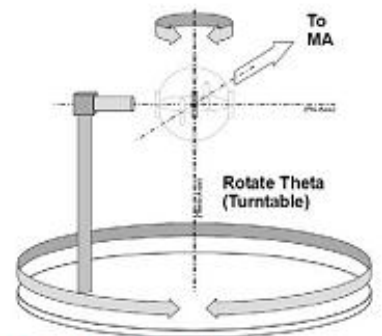
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)

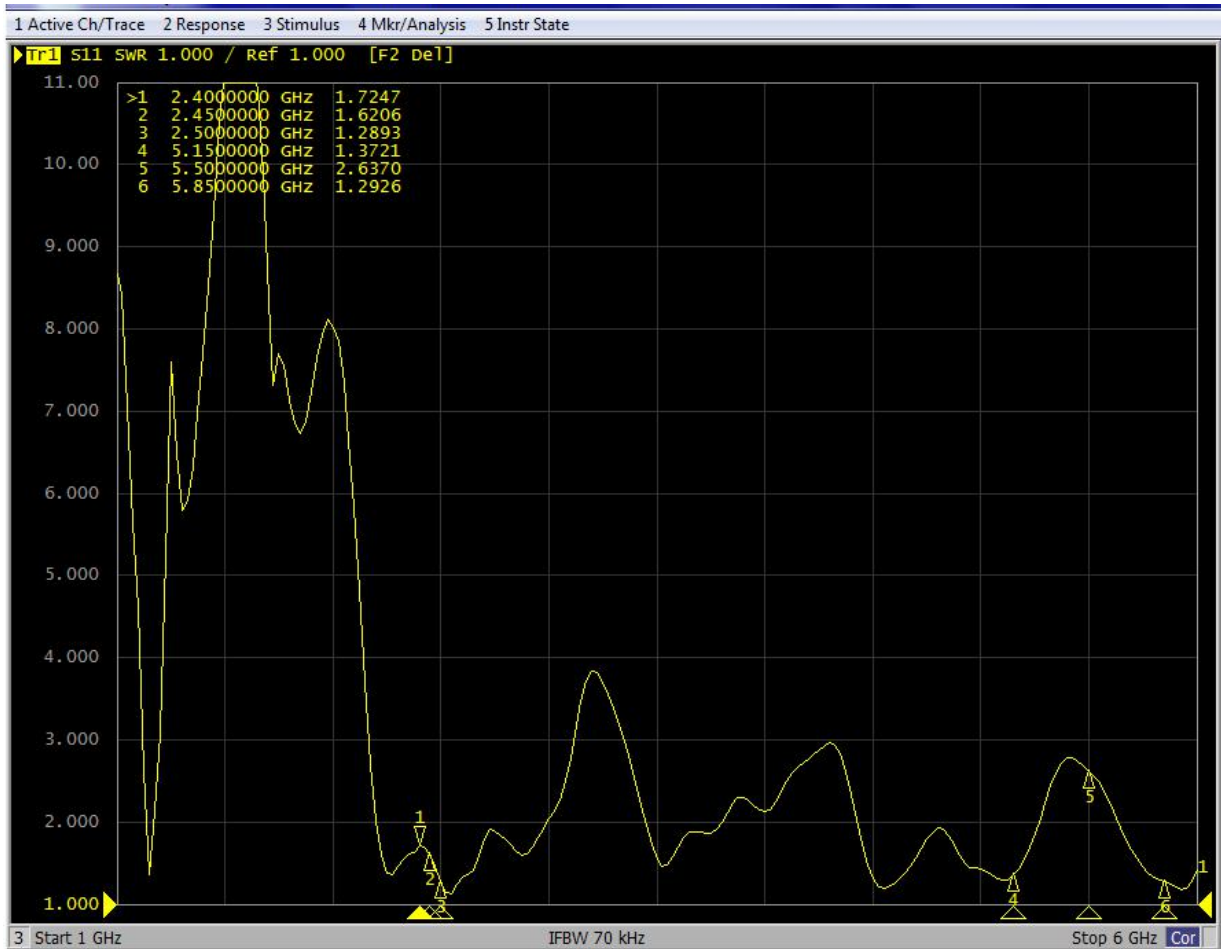


Phi axis test



Theta axis test

Antenna Impedance: VSWR & Smith

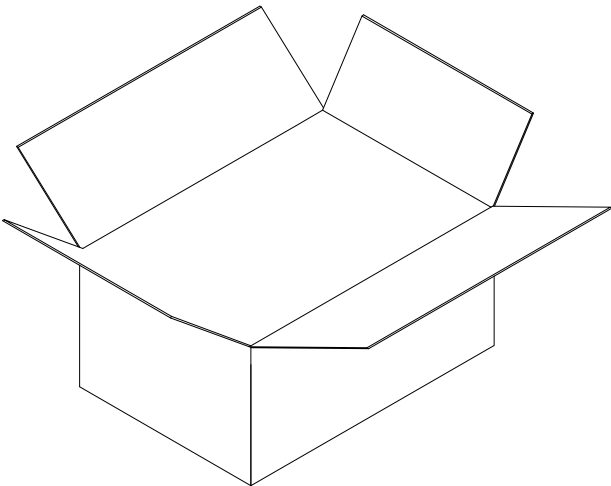
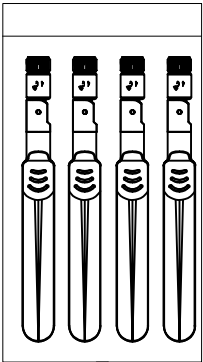


Total Efficiency& GAIN:

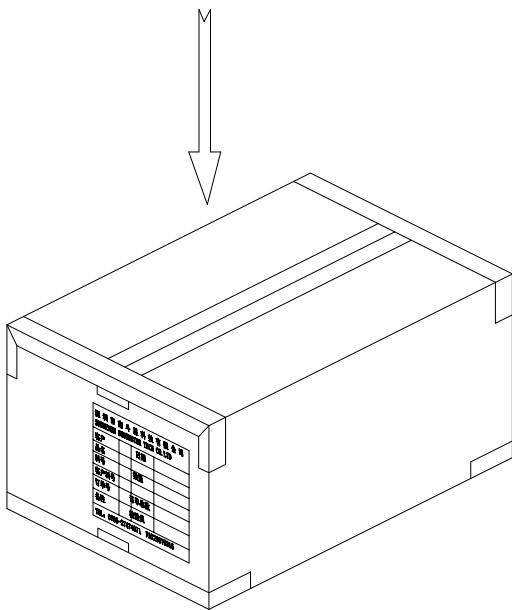
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	67.53	4.46	5150	55.45	3.35
2410	66.9	3.92	5200	66.57	3.66
2420	67.03	4.04	5250	59.43	3.94
2430	71.15	4.27	5300	54.28	3.7
2440	68.03	4.06	5350	46.01	3.43
2450	65.4	3.95	5400	49.94	3.31
2460	62.82	3.88	5450	53.67	3.88
2470	64.41	4.09	5500	56.66	4.43
2480	66.85	4.28	5550	57.63	5.19
2490	66.74	4.35	5600	64.98	5.52
2500	66.34	4.33	5650	61.84	4.4
	66.65454545	4.148181818	5700	53.5	3.96
			5750	52.63	4.17
			5800	53.06	4.38
			5850	57.12	4.79
				55.18545455	4.314545455

Finished product number: N12-3353-ROA	Version:A
Finished product name: WIFI external antenna	Client: JWIPC

- 1) Finished external antenna
- ➡
2. Pack in PE bags, 20 PCS per bag



Four: One box contains 400 PCS finished antennas
(subject to actual packaging)



Five: Seal the box and affix our production
label and ROHS label to the outer box.