

SPECIFICATION FOR APPROVAL

CUSTOMER :	睿睿联联
PART NAME :	SD7-WIFI7
PART NO. :	
DZZ NO. :	N12-8254-ROAB
REV. :	

	MANUFACTURERR SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:		
DATE:		

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Antenna Design for 166

Document Number	DZZ-2022/6/106
Released Date	109/66/2022
Author	bBing Zhanging Zhang
Review By	Huiping Feng

Revised History

[illegible]

1. Antennas' setup and enviroment With housing

Single antenna



Machine environment

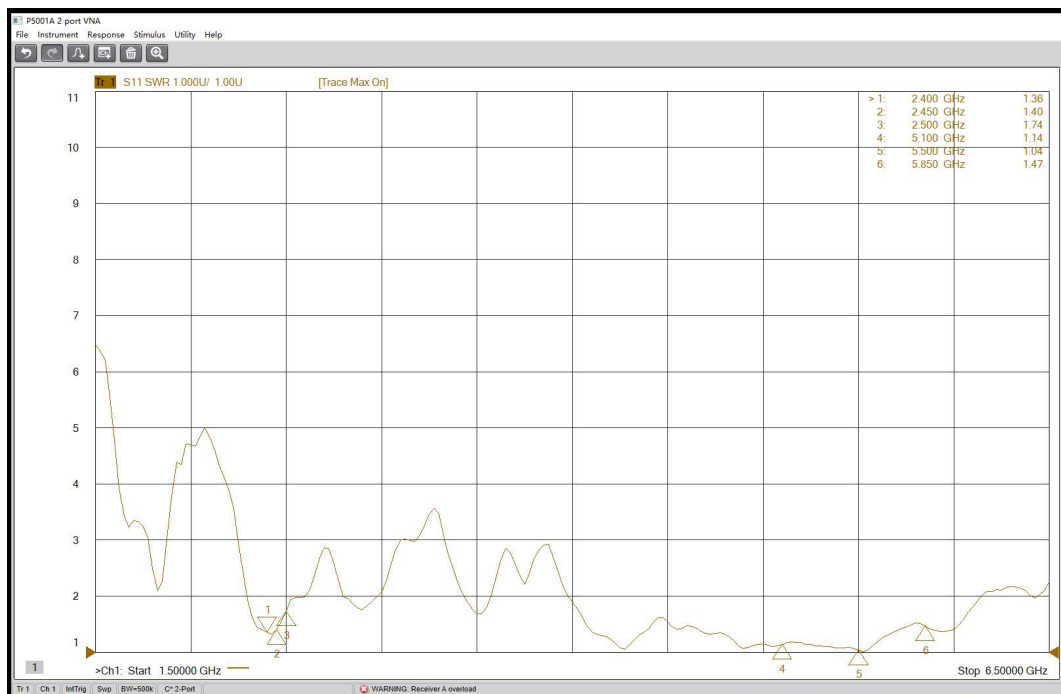


2. Analyzer Measurement

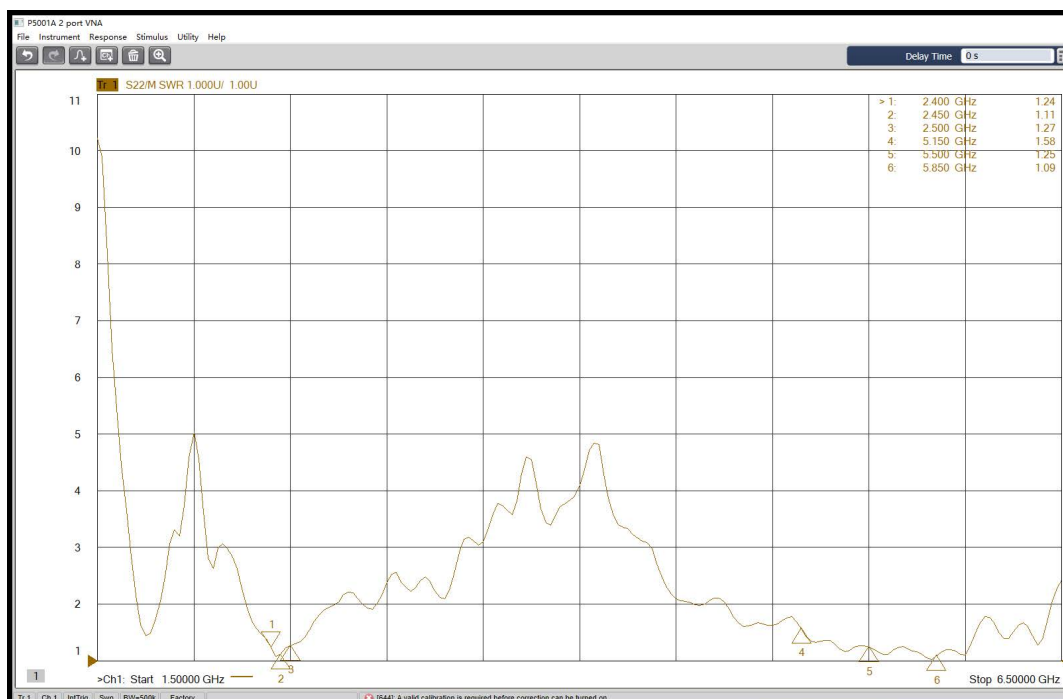
2.1 Ant 2.4G/5 WIFI-2 passive

test results

Single antenna standing wave less than 2.5



Standing wave of the whole machine is within 2.5



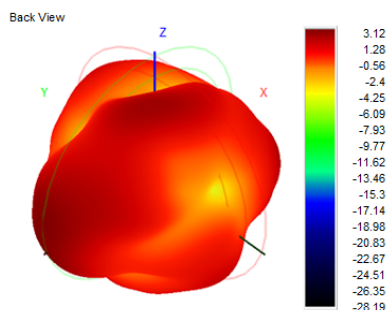
2.2 WIFIGain & Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.12	3.05	3.01	2.66	2.12	1.80	1.95	2.34	2.64	2.74	2.94
Efficiency (%)	74.71	73.02	71.01	68.74	66.16	64.54	64.47	67.78	71.50	71.97	73.73

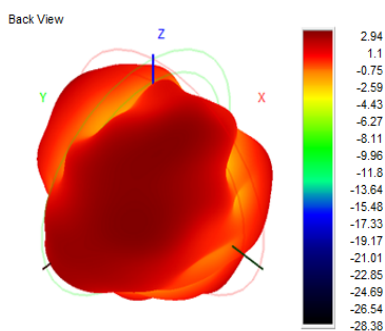
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
3.66	3.56	3.75	4.50	4.12	3.94	3.61	3.07	3.01	3.32	3.37	3.78	3.89	4.20	4.29
65.91	62.76	65.14	65.17	67.59	67.51	65.64	67.33	68.06	68.19	69.62	72.05	72.04	73.79	74.13

3D Pattern @2400-2500/5150-5850MHZ

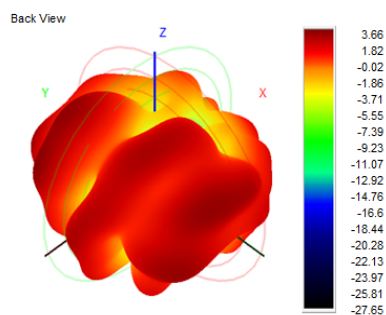
2400MHZ



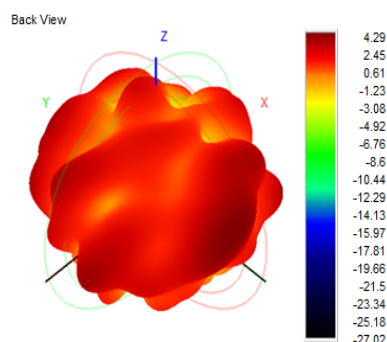
2500MHZ



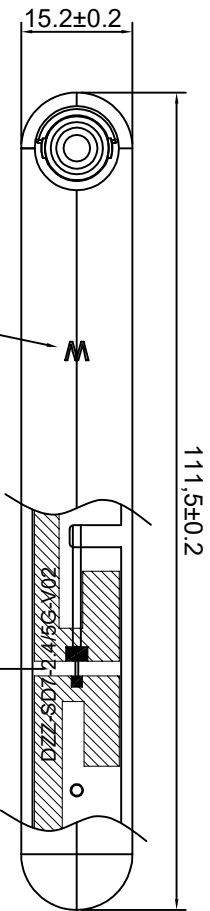
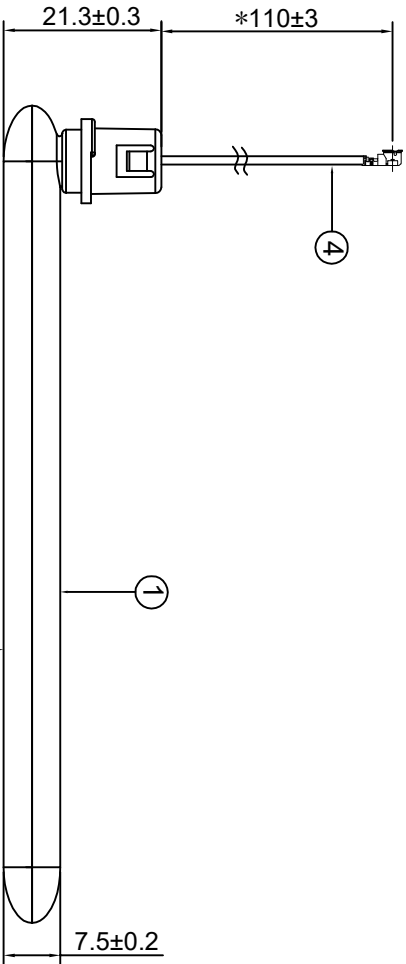
5150MHZ



5850MHZ



Rev		Description	Date	Remark
A		New drawing		



Silk screen dark grey mark

- Specification:
1. Dimensions marked with "*" are key control dimensions;
 2. No short circuit, open circuit and other welding defects ;
 3. All parts shall comply with ROHS requirements;
 4. Performance of finished products shall be fully inspected .

Be-Comfortable				深圳市得自在科技有限公司			
—— 得自在 ——				SHEN ZHEN BE-COMFORTABLE CO., LTD			
Third Angle		Project		SD7		Date	
0~10	±0.05	○	0.02	Part Name	WiFi 天线	Designed by	2022-05-31
10~18	±0.10	◎	0.03	Part No.	N12-8254-R0A	Checked by	赵同廷
18~30	±0.12	⊥	0.02	Material	/	RF	张斌
30~40	±0.15	∇	0.04			PE	
40~	±0.20	Angle	±0.5°	DWG No.		Approved by	
Location				Unit		mm	Scale
						1:1	Rev
							A

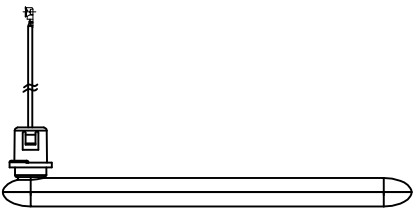
Product packaging specification

DATE: 2022-05-24

page: 1 of 1

Products Name :SD7-WIFI天线		Version: A
		Customer: 睿联

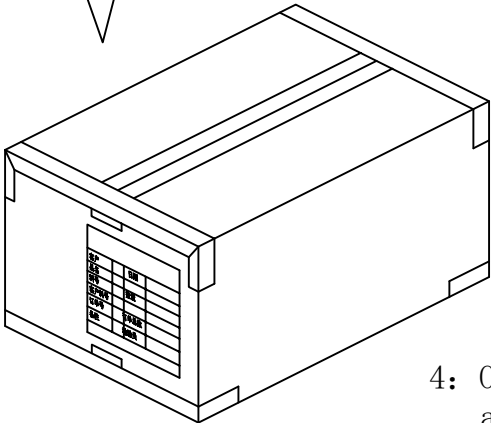
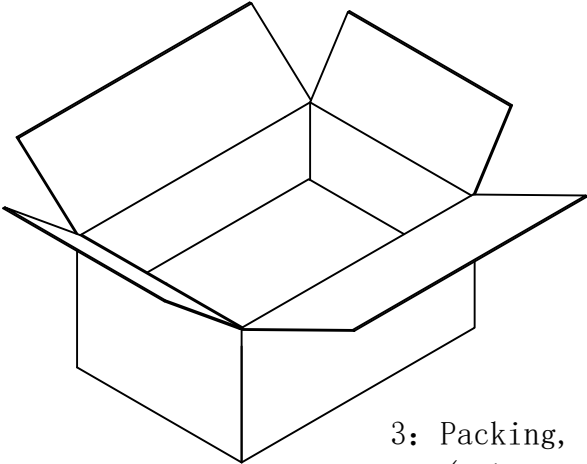
1: Antenna products



2: Bagging, each PE bag contains 50pcs of products
The terminal shall be wrapped with foam.。



3: Packing, 12 bags per box, 600 PCs in total (subject to the actual packaging).



4: Our production label and RoHS label are pasted on the outer case.

Approved: _____

Checked: _____

Designed: 赵同廷