

天线样品承认书

The Main Antenna Sample Confirmation

客户名称 Customer	Shenzhen ADDX Innovation Technology co., LTD.		
项目名称 Model Name	CK160	日期 Date	2023-07-19
物料编号 Project NO.	SN1083	备注 ANT Type	Sheet steel Antenna
频段 Frequency Range	WIFI 2300MHz-2500MHz		
设计 Designed By	RF Engineer	Structural Engineer	
审核 Checked By	Engineering Manager		
客户确认 Client's Approval			

设计单位: 司南微电子(深圳)有限公司
Designer: SINAWELL Electronics(Shenzhen) Co., Ltd.

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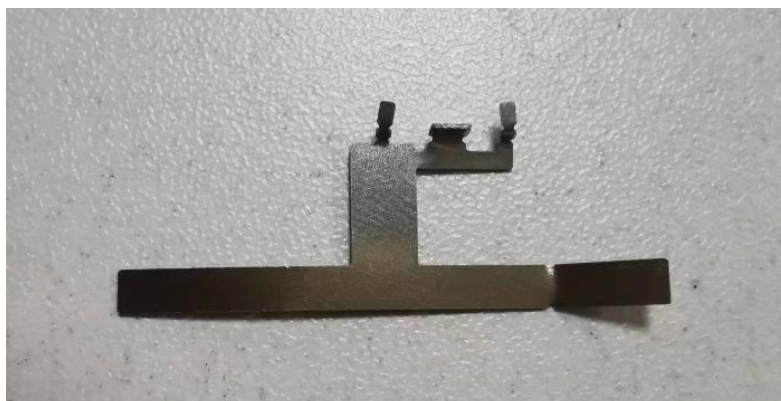
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1. specification overview

2. appearance



3. electrical property

3.1. antenna band

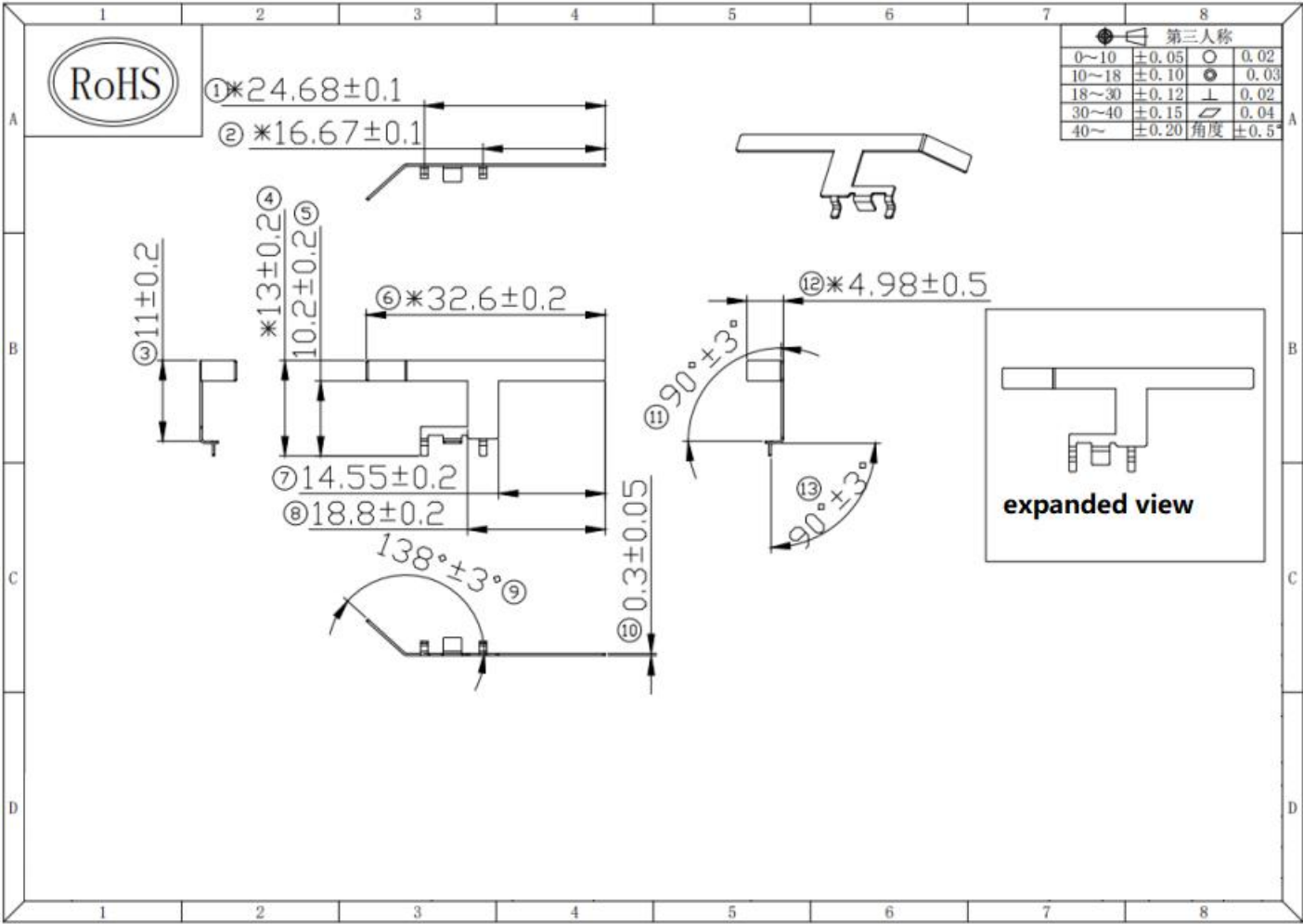
	BT
发射频(MHz)	2300MHz-2500MHz

3.2. match circuit

Element	Value
E1(0201)	NC
E2(0201)	0 欧姆
E3(0201)	NC
E4(0201)	0 欧姆

3.3. ANT Type:Sheet steel Antenna

Appendix I antenna structure



WIFI efficiency test data

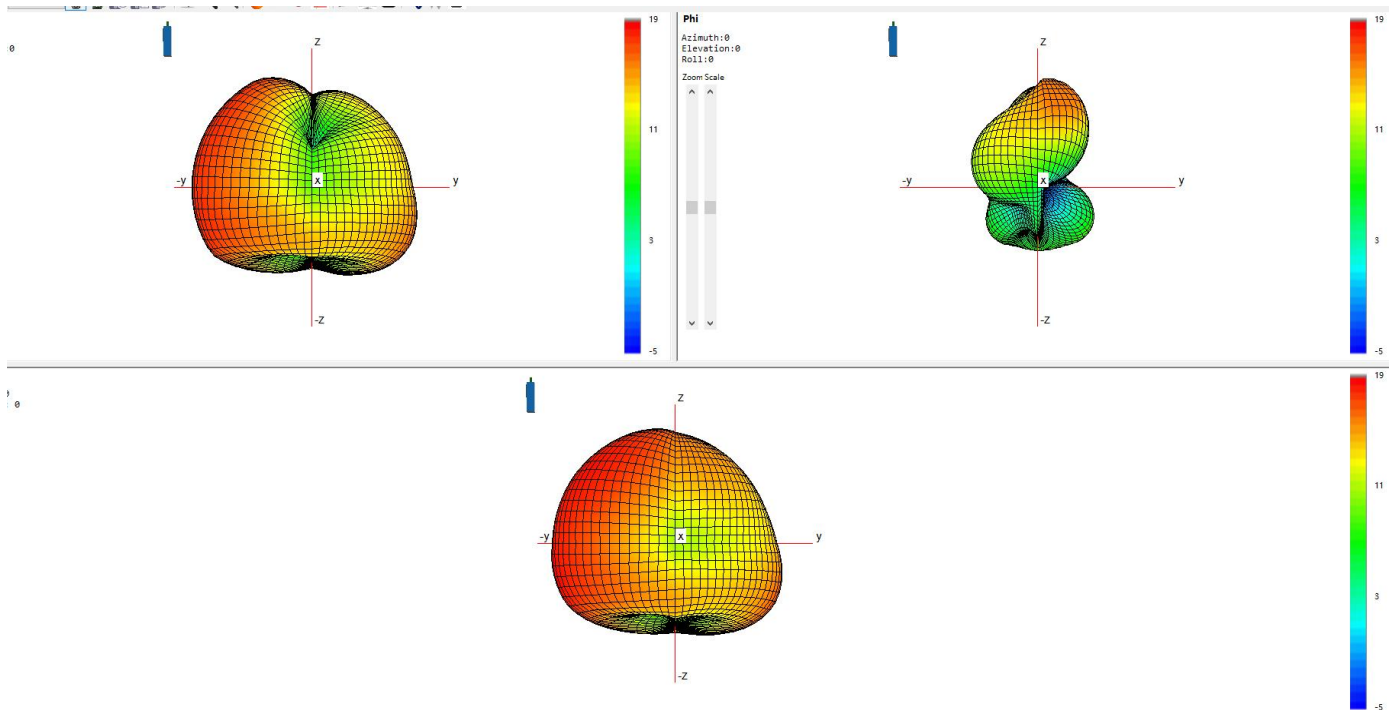
Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2300	43.66	-3.6	0.29	-1.86	20.115	23.546	0.29	-8.48	45.67	44.11
2310	42.59	-3.71	0.32	-1.83	19.63	22.956	0.32	-8.25	45.63	44.54
2320	42.63	-3.7	0.48	-1.67	19.579	23.05	0.48	-8.15	46.15	44.65
2330	44.33	-3.53	0.6	-1.55	20.803	23.526	0.6	-8.36	46.17	45.34
2340	37.1	-4.31	-0.18	-2.33	17.568	19.532	-0.18	-10.15	46.49	45.4
2350	41.12	-3.86	0.18	-1.97	19.642	21.479	0.18	-10.37	46.94	45.65
2360	44.94	-3.47	0.58	-1.57	21.509	23.427	0.58	-10.1	46.99	45.85
2370	37.24	-4.29	-0.24	-2.39	17.798	19.445	-0.24	-10.97	46.72	45.49
2380	37.11	-4.31	-0.11	-2.26	17.734	19.374	-0.11	-11.21	47.44	45.93
2390	41.38	-3.83	0.45	-1.7	19.953	21.432	0.45	-10.92	47.12	46.23
2400	33.38	-4.77	-0.36	-2.51	16.109	17.271	-0.36	-12.07	46.5	45.85
2410	37.11	-4.3	0.15	-2	17.997	19.117	0.15	-11.39	46.61	46.05
2420	37.71	-4.24	0.19	-1.96	18.31	19.4	0.19	-11.11	46.59	46.17
2430	37.22	-4.29	0.15	-2	18.006	19.214	0.15	-10.94	46.77	46.14
2440	36.35	-4.39	0.05	-2.1	17.562	18.791	0.05	-11	46.79	45.97
2450	36.38	-4.39	0.13	-2.02	17.532	18.844	0.13	-11.05	46.58	45.82
2460	36.3	-4.4	0.16	-1.99	17.545	18.756	0.16	-11.15	46.74	45.97
2470	36.27	-4.4	0.23	-1.92	17.65	18.622	0.23	-11.1	46.54	45.98
2480	38.77	-4.12	0.52	-1.63	19.116	19.654	0.52	-10.65	46.48	46.46
2490	35.76	-4.47	0.15	-2	17.795	17.965	0.15	-11.41	46.53	46.76
2500	34.37	-4.64	0.02	-2.13	17.129	17.238	0.02	-11.77	46.77	46.39

Active test

Band	CH	TRP	TIS	
11B	1	15.32	1	-83.14
	7	13.95	7	-82.87
	13	13.7	13	-82.77
11G	1	14.34	1	-70.3
	6	13.56	6	-69.01
	11	12.88	11	-70.28
11N	1	13.5	1	-65.59

	6	12.26	6	-65.7
	11	11.88	11	-67.04

fields_trength



antenna size(mm)

NO	Size	tolerance	data1	data2	data3	data4	data5	result
1	24.68	±0.1	24.62	24.65	24.63	24.65	24.64	OK
2	16.67	±0.1	16.64	14.64	14.66	14.65	14.63	OK
3	13.0	±0.2	12.98	12.97	12.97	12.97	12.99	OK
4	32.6	±0.2	32.73	32.70	32.71	32.74	32.71	OK
5	4.98	±0.5	4.92	4.87	4.95	4.99	4.89	OK
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制表：杨世梅

审核：陈德

