



Shanghai Imilab Technology Co., Ltd.

Acceptance Letter

(Antenna type) SPECIFICATION FOR APPROVAL

DESCRIBE: Finished IPC079 WIFI antenna steel sheet

PRODUCTS: Steel sheet antenna

PART NO: Create the rice material number: 5022AA013633

BRAND: ETHETA

APPLICATION: IPC079

DATE: 2024. 12. 03

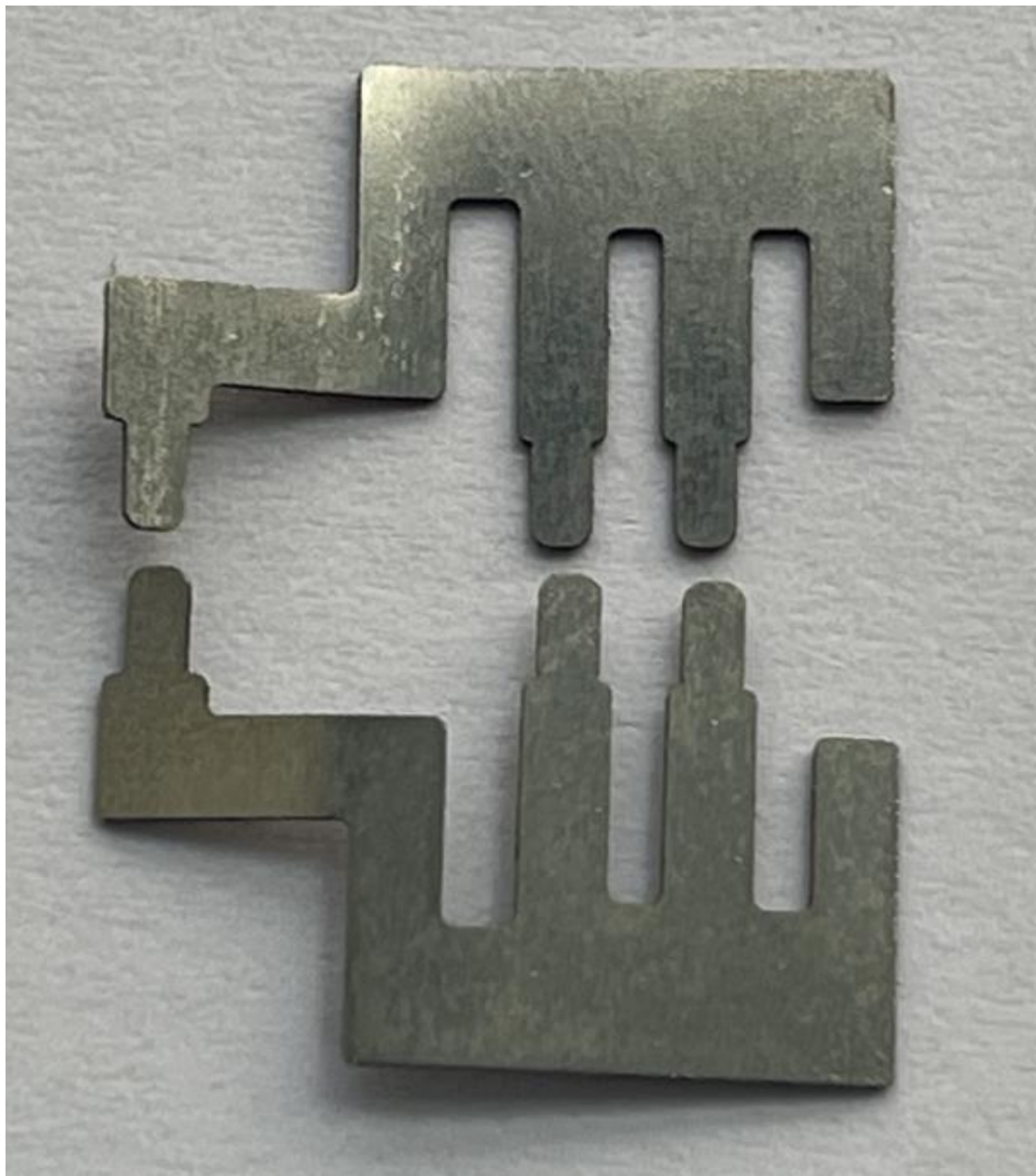
PROVIDER: Shenzhen Ruide Communication Technology Co., LTD

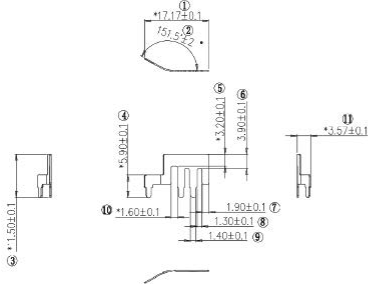
APPROVED BY VENDOR			
confirm	Proofreading	Audit	approve
APPROVED BY Client			
confirm	Proofreading	Audit	approve

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Product images





Expand the reference diagram



Rough edge
surface

Shenzhen Ruide Communication Technology Co., Ltd.

	PART NAME: 1pc-GTP-RSP14mm steel sheet finished product	DATE:	24.11.15
TOLERANCE X.X $\pm 0.2C$.XX $\pm 0.1D$.XXX ± 0.05 ANGULAR $\angle \pm 0.5^\circ$	PART NO: RH17304028S03-1 RH17304028S01-1	MRQWN:	
	MATERIAL SUS304 stainless steel	CHECKED:	
	FINISHING: Surface nickel plating	APPROVED:	
UNIT: mm	COLOUR: silver	SCALE: 1:1	TER: T:A

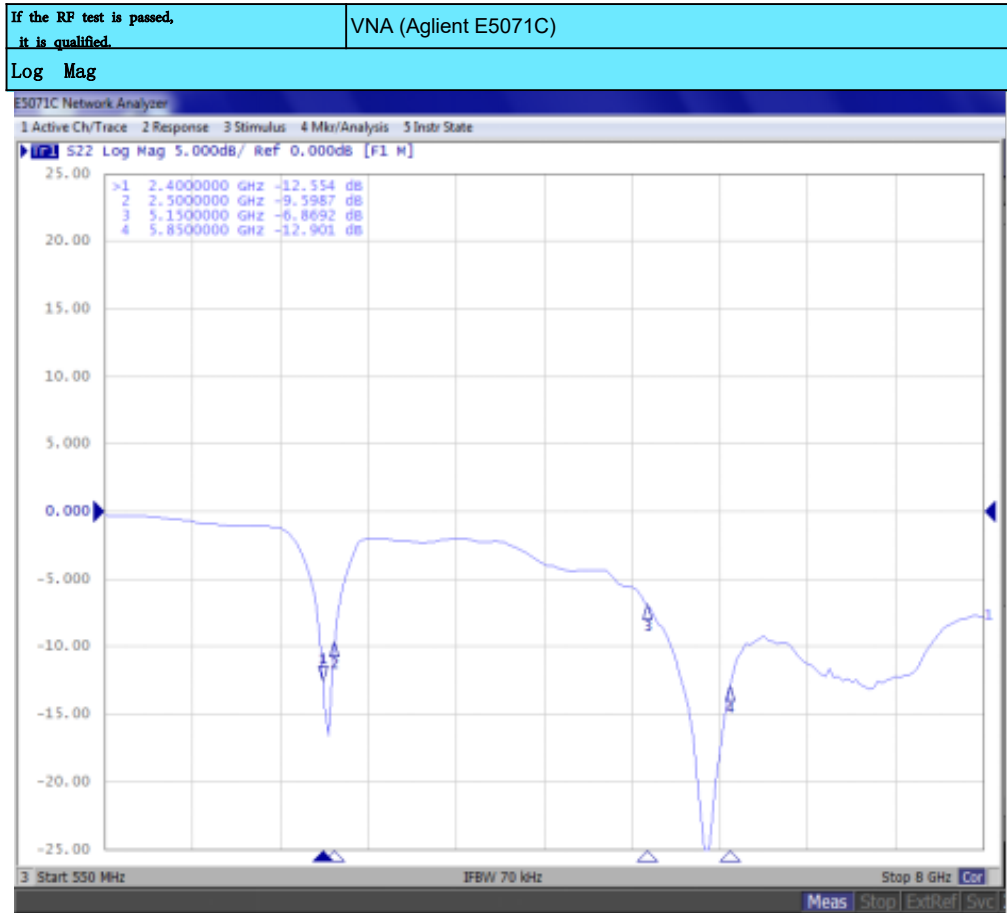
Full scale measurement report

[illegible]

Reliability test report

Customer		Imilab	Written By	chenwenzhi	Orig. Date	24.11.28
Part Number		5022AA013633	Revised By	wangxiaoning	Revised Date	24.11.28
Description1		IPC079_WIFI	Approved By	zhoujialiang	Approved Date	24.11.29
Serial	number Test Project	Test conditions and judgment marking		Number of samples quantity	judgment result	Product images
1	High temperature storage	80℃±2℃, store for 48 hours, check the appearance after standing for 2 hours, there are no cracks or obvious deformation on the parts, If the RF test is passed, it is qualified.		3	OK	
2	Low temperature storage	-40℃±2℃, store for 48 hours, check the appearance after standing for 2 hours, there are no cracks on the parts, and no obvious change. The product is qualified if it passes the shape, shedding and RF tests		3	OK	
3	Constant moist heat	T=60℃±2℃;RH=90%±3%;Test time 48 hours, after 2 hours of standing, check the appearance. The parts have no cracks, obvious deformation, or falling off, and the RF test is qualified.		3	OK	
4	Salt spray test	Take the product, in an environment of 35±3℃, the pH value is in the range of 6.5-7.2, and the salt water concentration is 5±1%, spray continuously for 48 hours, wash with water and check the appearance, the surface is free of rust, and the coating. The product is qualified if peeling and blistering are not observed.		3	OK	

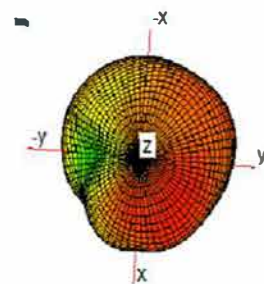
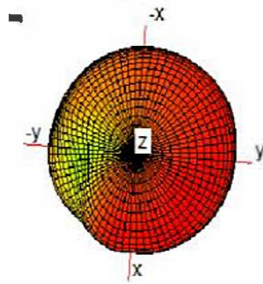
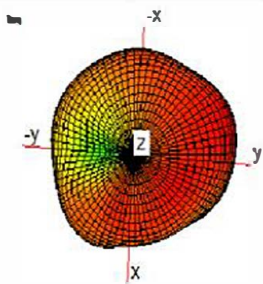
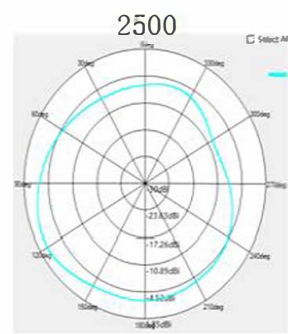
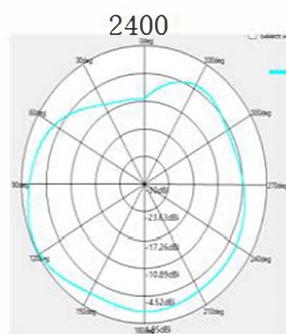
WiFi Test results of reflection loss



WiFiAntenna efficiency test results			
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Frequency (%)
2400	-2.24	1.26	59.7
2410	-1.79	1.33	66.2
2420	-2.14	1.35	61.12
2430	-2.45	1.39	56.86
2440	-2.13	1.31	61.23
2450	-2.06	1.35	62.28
2460	-2.53	1.36	55.85
2470	-2.51	1.38	56.09
2480	-2.36	1.42	58.04
2490	-2.66	1.34	54.2
2500	-2.91	1.14	51.19
AVG	-2.34	1.33	58.43

Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Frequency (%)
5150	-2.32	1.21	58.56
5175	-2.17	1.22	60.64
5200	-2.05	1.1	62.3
5225	-2	1.32	63.14
5250	-2	1.38	63.07
5275	-2.1	1.33	61.62
5300	-2	1.23	63.09
5325	-1.85	1.27	65.33
5350	-1.9	1.26	64.5
5375	-2.16	1.24	60.83
5400	-1.95	1.34	63.89
5425	-1.75	1.27	66.9
5450	-1.87	1.41	64.95
5475	-1.75	1.38	66.83
5500	-1.86	1.42	65.15
5525	-2.05	1.39	62.34
5550	-1.8	1.15	66.13
5575	-1.46	1.27	71.45
5600	-1.66	1.37	68.18
5625	-1.64	1.15	68.49
5650	-1.35	1.28	73.28
5675	-1.6	1.42	69.2
5700	-1.53	1.36	70.34
5725	-1.14	1.13	77
5750	-1.41	1.45	72.32
5775	-1.62	1.42	68.93
5800	-1.52	1.47	70.51
5825	-1.6	1.38	69.16
5850	-1.69	1.35	67.69
AVG	-1.79	1.31	66.41

2.4 Gradation pattern



5.8 Gradation pattern

