

SPECIFICATION FOR APPROVAL

DESCRIBE: Anker Innovations Co., LTD (T8215)

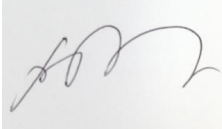
Customer NO: _____

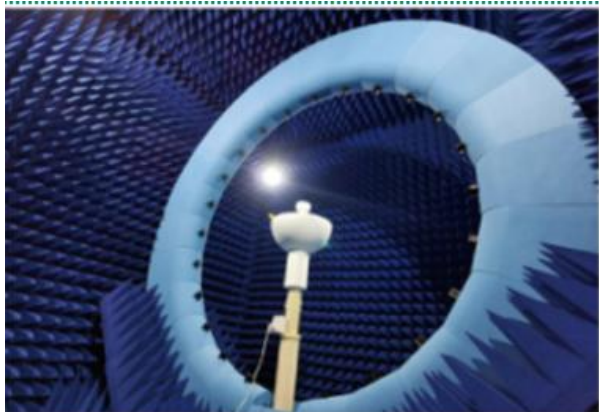
PART NO: ATC1498-AK006B71RA

Antenna type: ANT1-Ant FPC +Cable(Black)

DATE: 2025.08.15

PROVIDER: AT&C Technology (Shenzhen) Co.
201, Building C, Chuangwei Innovation Valley, No.1 Tangtou Road,
Shiyan Street, Bao'an District, Shenzhen, China

Customer Admit	confirm	ID Department	Test department	Structure section	Quality department
Supplier Admit	confirm	confirm	Proofreading	To examine	Approval
		ziyehui	yangguochang	Xuliying	



We have RF equipments as below

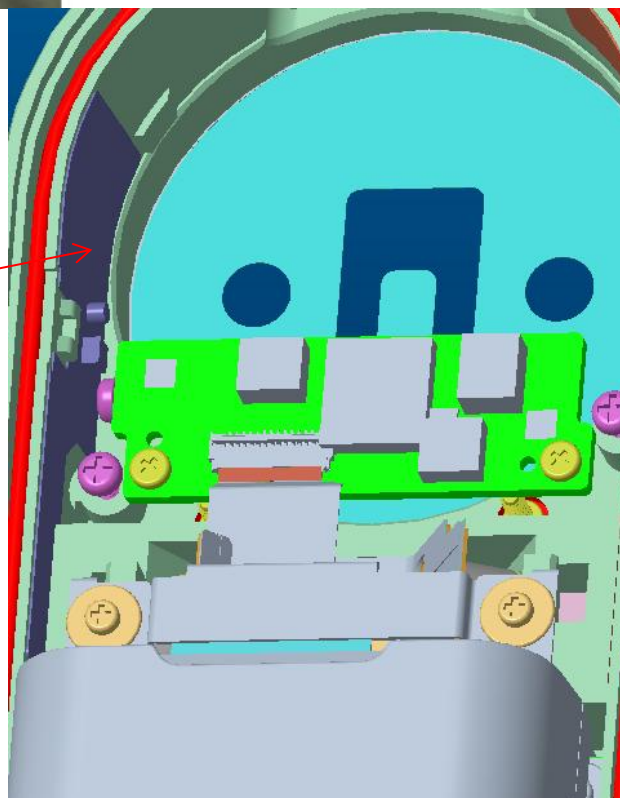
Anechoic Chambe

- Satimo 1ea
- SY24 1ea
- SAR 1ea
- KSS 2ea

Measurement

- 2G, 3G, 4G
- GPS
- Wifi
- Bluetooth(3.0) OTA
- NFC & WPC

ANT1 Antenna





BOM

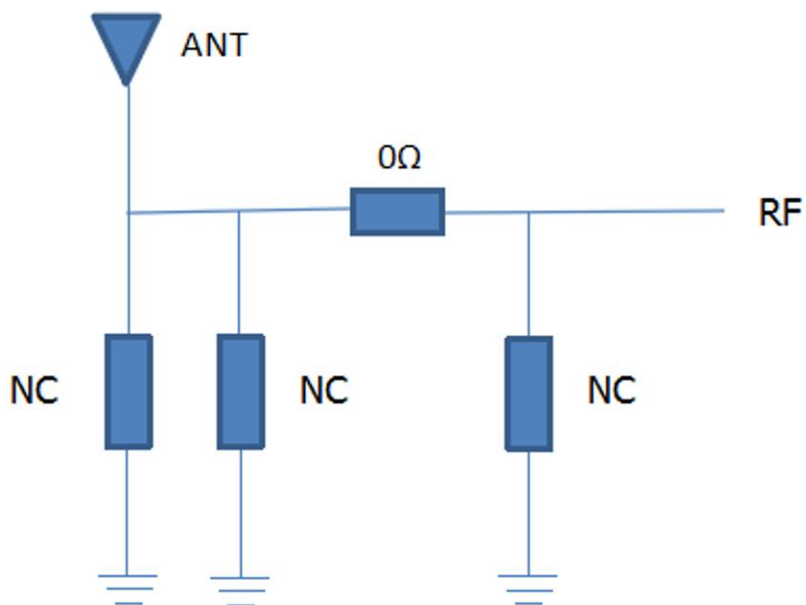
Customer	Anker	Written By	ZYH	Orig. Date	2025.08.15
Part Number	ATC1498-AK006B71RA	Revised By	SHIN	Revised Date	2025.08.15
Description	ANT1 ANT	Approved By	HJ	Approved Date	2025.08.15

Customer number	ATC number	Part name
290000-019652	ATC1498-AK006B70RA	55.14*11.7*0.12, PI+CU, Black low loss wire, wire diameter 0.81, wire length 96mm, equipped with 4th generation Thunderbolt Terminal

Impedance Matching

Customer	Anker	Written By	ZYH	Orig. Date	2025.08.15
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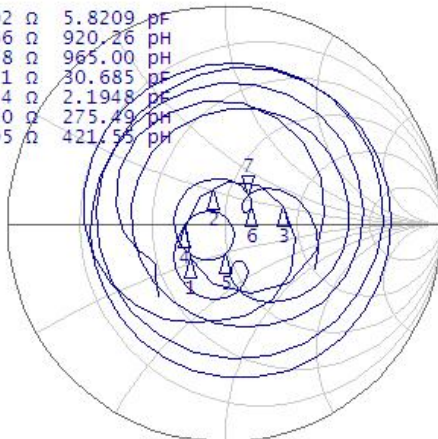
1. No changes made



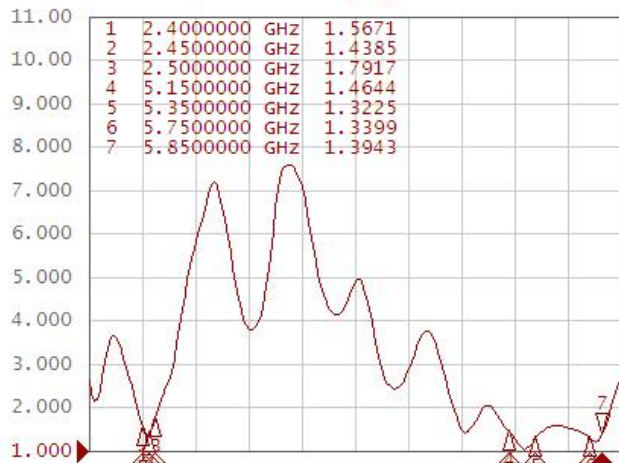
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Tr1 S11 Smith (R+jX) scale 1.000U [F1]

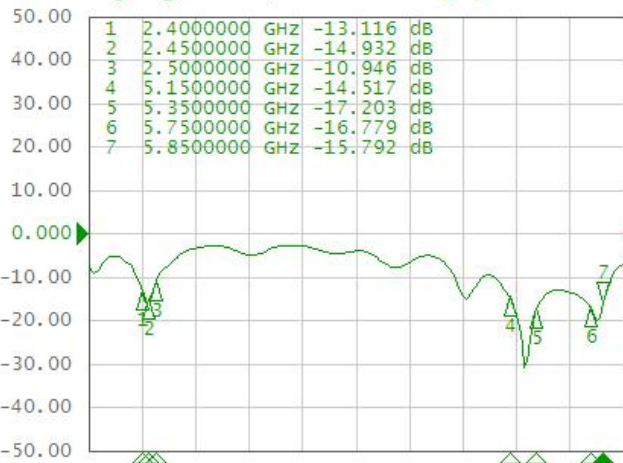
1	2.4000000	GHZ	34.892	Ω	-11.392	Ω	5.8209	pF
2	2.4500000	GHZ	42.901	Ω	14.166	Ω	920.26	pH
3	2.5000000	GHZ	85.601	Ω	15.158	Ω	965.00	pH
4	5.1500000	GHZ	34.214	Ω	-1.0071	Ω	30.685	pF
5	5.3500000	GHZ	48.518	Ω	-13.554	Ω	2.1948	pF
6	5.7500000	GHZ	63.084	Ω	9.9530	Ω	275.49	pH
>7	5.8500000	GHZ	59.527	Ω	15.495	Ω	421.55	pH



Tr2 S11 SWR 1.000/ Ref 1.000 [F1]



Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



4 Start 2 GHz

IFBW 70 kHz

Stop 6 GHz

Cor



Antenna *Efficiency

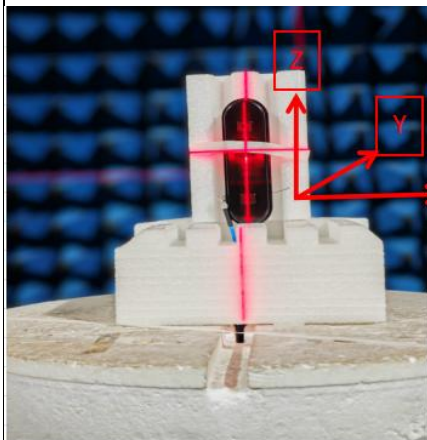
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ANT 1

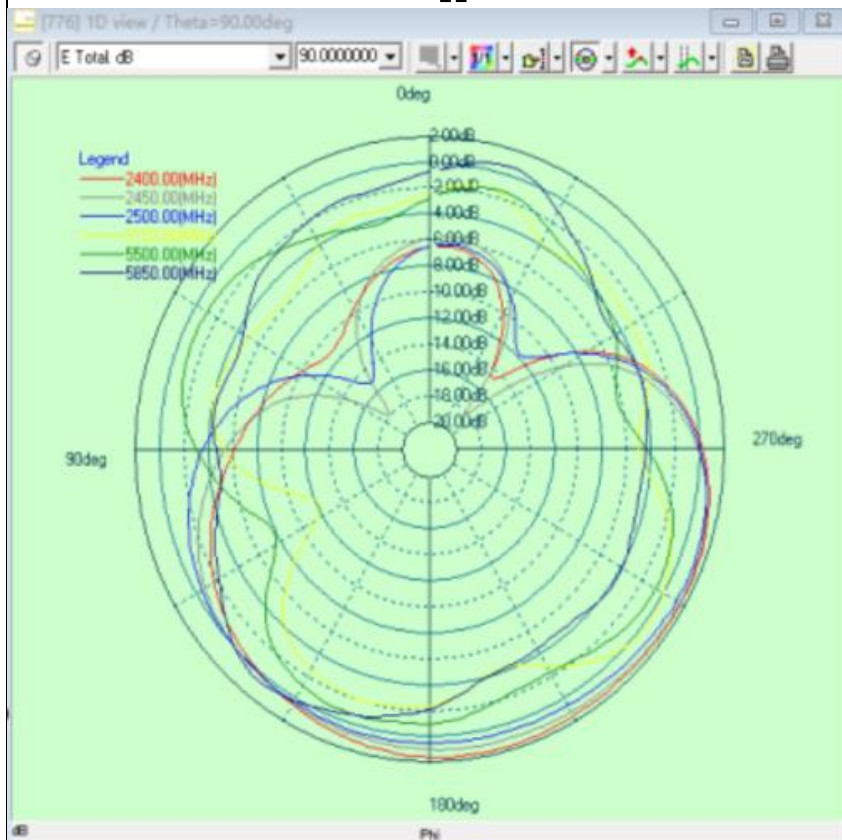
Frequency	Efficiency	Efficiency . dB	Gain. dBi
2400	49%	-3.12	1.46
2420	51%	-2.96	1.58
2440	49%	-3.06	1.47
2450	50%	-2.97	1.49
2460	51%	-2.92	1.54
2480	50%	-2.97	1.19
2500	50%	-2.97	1.35
5100	47%	-3.24	1.16
5150	53%	-2.75	2.01
5200	58%	-2.39	2.40
5250	57%	-2.46	2.37
5300	57%	-2.44	2.96
5350	60%	-2.23	3.46
5400	54%	-2.65	2.93
5450	54%	-2.65	2.59
5500	54%	-2.66	2.38
5550	53%	-2.80	2.08
5600	56%	-2.55	2.27
5650	55%	-2.61	2.09
5700	52%	-2.82	1.98
5750	48%	-3.18	1.51
5800	49%	-3.13	1.51
5850	46%	-3.38	1.58

2D Radiation Pattern

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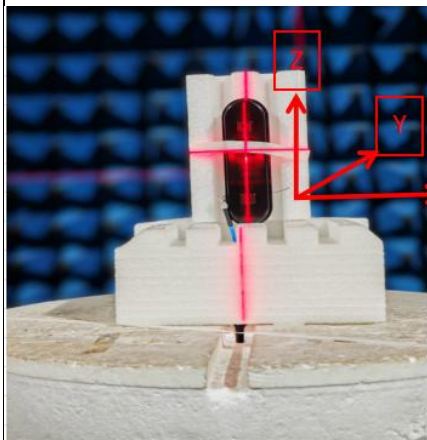


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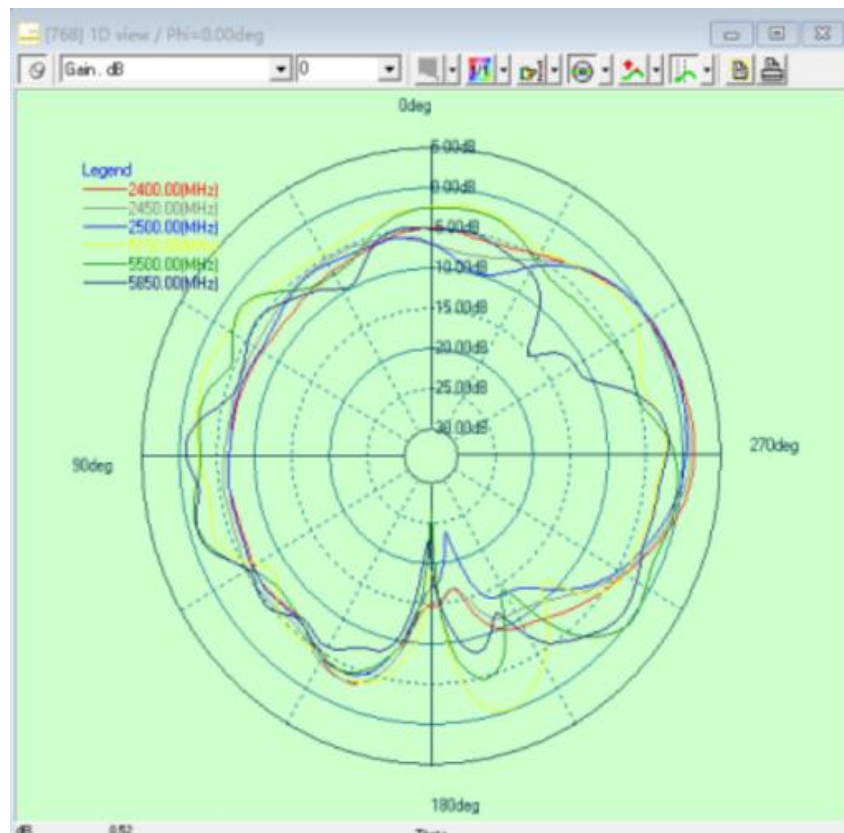


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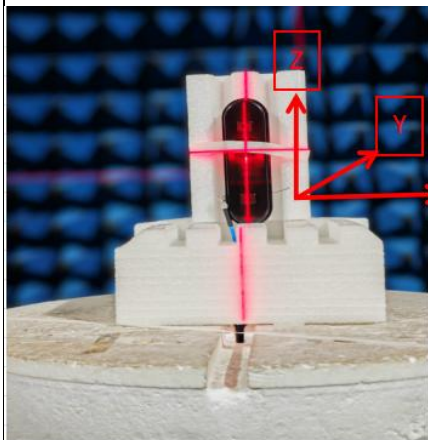


E1

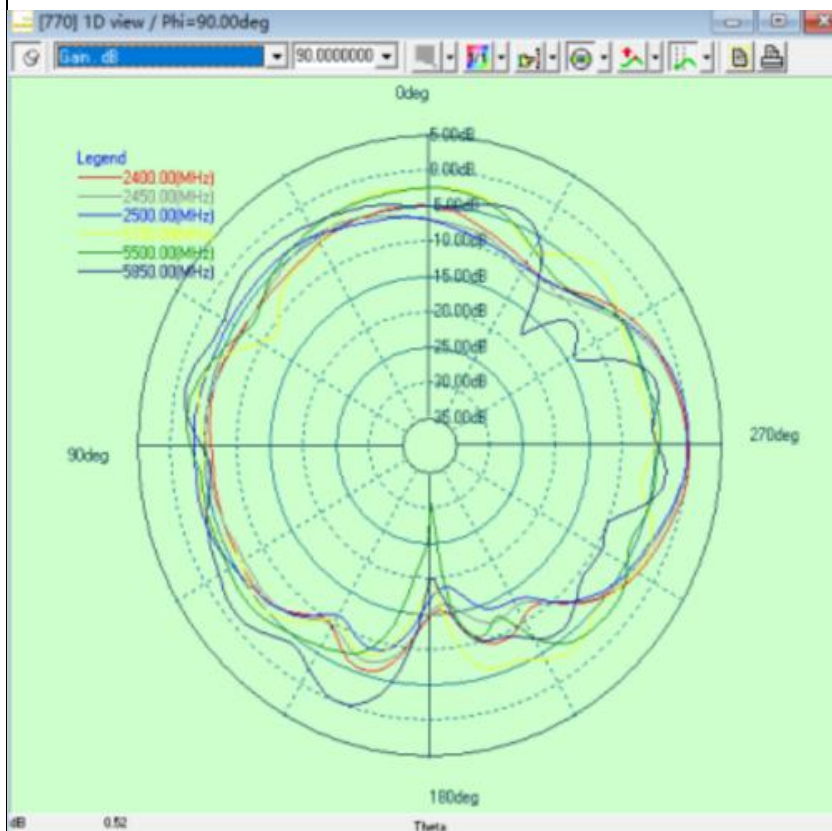


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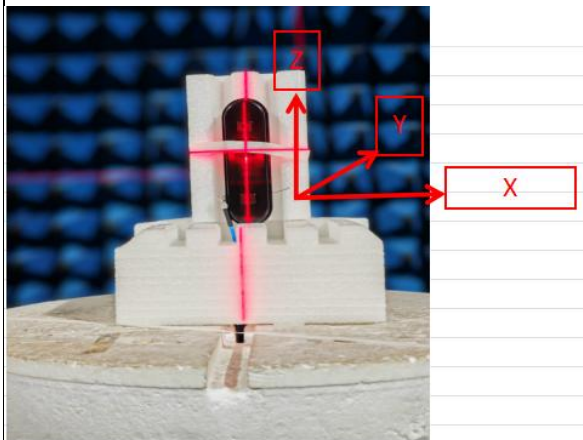


E2



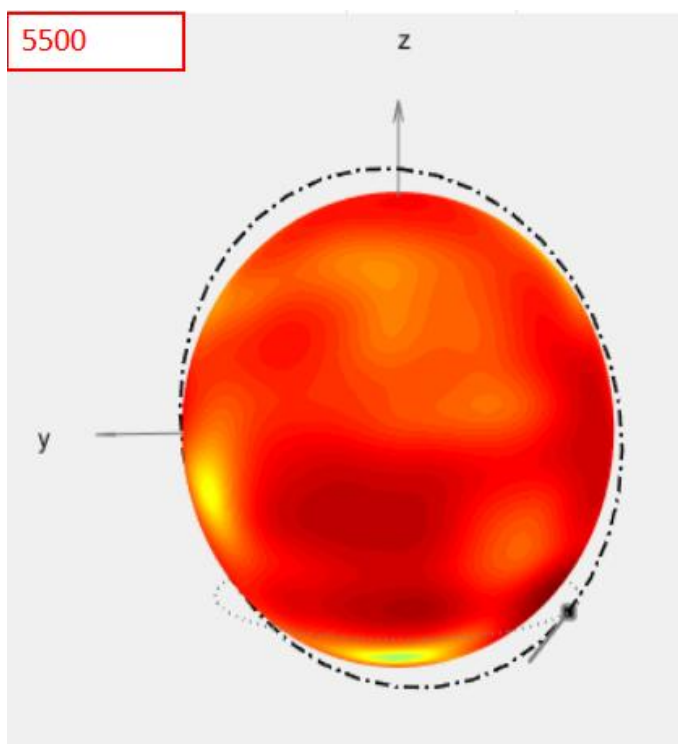
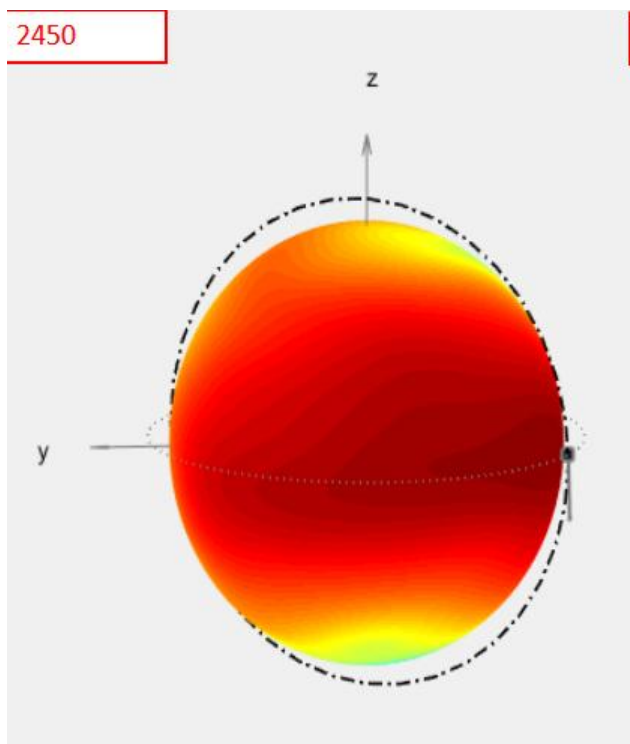
3D Radiation Pattern

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Part Number	ATC1498-AK006B71RA	Revised By	SHIN	Revised Date	2025.08.15
Description	ANT1 ANT	Approved By	HJ	Approved Date	2025.08.15

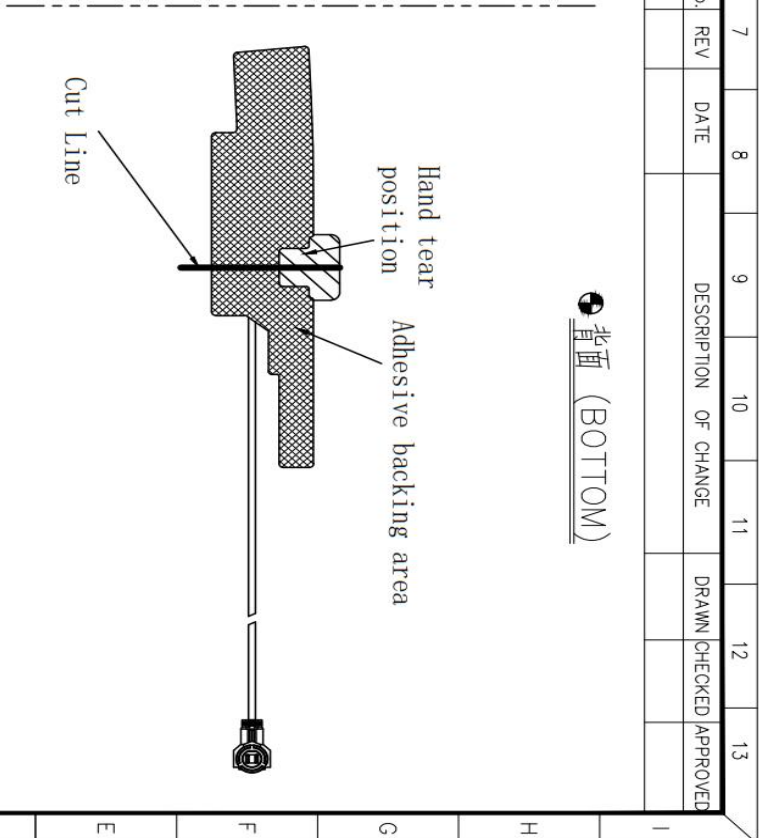
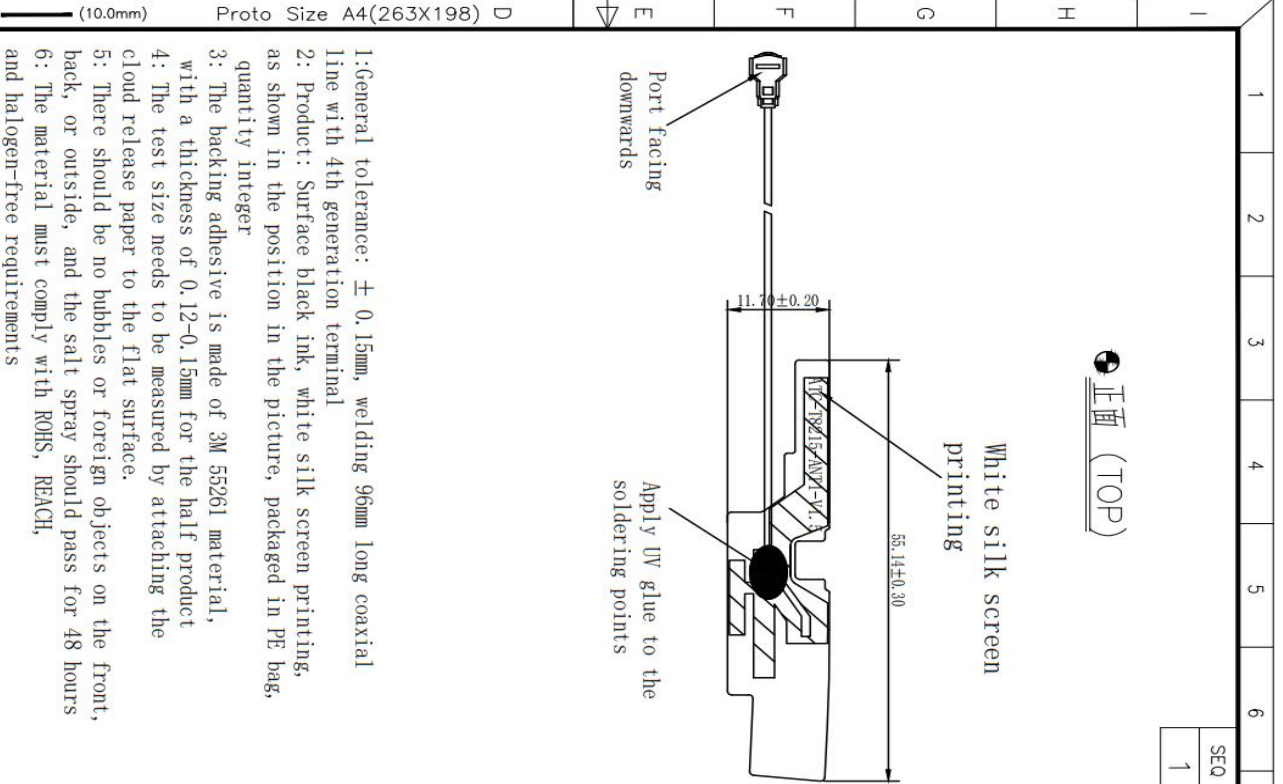


2450MHZ

5500MHZ



ATNC-S-01-A4



SEQ NO.	REV	DATE	DESCRIPTION	OF CHANGE	DRAWN	CHECKED	APPROVED
1							

X	±0.5	3rd ANGLE PROJECTION	AT&C	AT&C Co., LTD.(Shenzhen)	PART NAME	T8215 FPC	REV. A
.XX	±0.25	©COPYRIGHT AT&C, 2009.04.05			MODEL NAME	ANT1-Ant	
.XXX	±0.10	THIS NOTICE DOES NOT IMPLY PUBLICATION			DRAWING NUMBER	ATC1498-AK006B71TF	
	±0.05				DRAWING DATE	2025.08.15	
CHECKED BY		SIZE	SI	A4			
DRAWN BY	ZYH	UNITS	mm				
APPROVED BY	Ins	SCALE	1:1				

A4(297X210)



Salt spray test report

Customer Name	Anker (T8215)	Specification and	ATC1498-AK006B71RA
Sample situation	Sample quantity: 3PCS		
	Substrate: PI		Coating: OSP
Test start and end time	June 5, 2025 10:00 to June 7, 2025 10:00 48 hours		
Test type	☒ NSS	☐ ASS	☐ CASS
Test conditions	Salt solution ratio: 5% ± 1%		PH:6.5~7.2
	Temperature inside the box: 35 ° C		Relative humidity: 85% ± 2%
	Spray mode: ☒ Continuous ☐ Intermittent		Compressed air pressure: 1kg/cm ²
	Spray volume: 1.0 ~ 2.0ML/80CM2/H		Test object placement angle: 30 degrees+/-10 degrees
	Test cycle: __ cycles		Spray time: 48 h Placement time: 2 hours
Judgment criteria	Appearance: intact and undamaged, with no significant changes. Coating: No oxidation, rust, discoloration, or corrosion spots. Screen printing: No shedding or bubbles.		
Test results	Appearance after test: The appearance is intact and undamaged, with no significant changes. Coating: No peeling or rusting Surface spraying and screen printing: no peeling or bubbles.		

Explanation:

1. The salt spray test operation standard shall be executed in accordance with the national standard GB/T2423.1 7-2008 of the People's Republic of China
2. The criteria for determining test specimen results shall be in accordance with the national standard GB/T6461-02 of the People's Republic of China

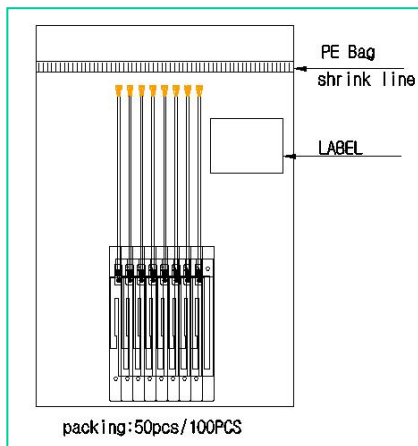
Tester: Zhang Luo	Reviewed by: Liang Houbo
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Antenna Component Production Process Flow

No	Process Name	Using equipment, fixtures, and tooling	Inspection items	Control factor	Reference standards	Inspection frequency
1	FPC incoming materials	Animer or caliper	critical dimension		Reference drawings	1
			Common appearance defects of FPC components		Refer to relevant inspection standards	AQL0.65
			Peel off of adhesive backing		≥5Kg/f	2
			Material model, RoHS compliance		Reference drawings	Once
2	Same axis incoming material	Animer or caliper	critical dimension		Reference drawings	1
			Common appearance defects of coaxial components		Refer to relevant inspection standards	AQL0.65
			Wire head welding		Easy to weld, no oxidation, poor welding quality, etc	2
			Material model, RoHS compliance		Reference drawings	Once
3	Coaxial welding	Soldering iron, tin wire	Soldering iron welding	welding temperature	320±10℃	1
			Welding appearance		Do not short-circuit, solder, or burn the wire skin	100% self inspection
					No false welding or virtual welding allowed	100% self inspection
					Solder joints cannot have less solder, and more solder (solder joints are large)	100% self inspection
4	Point UV glue	UV lamp	Glue appearance		No leakage point, not dried up	100% self inspection
5	Network segmentation testing	network analyzer Test fixture	Test waveform compliance	Network segmentation parameters	The waveform parameters of the product test are consistent with the set waveform parameters, and if "PASS" is displayed, it is considered qualified	100%
6	100% visual inspection And packaging	Carton, pallet, label, to be packaged finished product	appearance		Refer to Phoebe antenna inspection specifications	100%
			Packaging quantity		Reference packaging guidance	100%
			Correct labeling		Correct product name, quantity, and related information	Once
7	OQC shipment inspection	Animer/caliper	Key dimensions and positional accuracy of the antenna		Refer to product drawings	Once
		3M adhesive	Coating thickness and adhesion report		Refer to product drawings and Phoebe antenna inspection specifications	Once
			Coaxial Pulling Force Test		Reference Product Pulling Force Test Standard	Once
			Salt spray test		Reference product salt spray testing standard	Monthly/time
			Antenna appearance, packaging, and labeling		Refer to Phoebe antenna inspection specifications	AQL0.65

Packaging method

PE bag packaging, product emission neat, uniform quantity



PART LIST

*The packaging diagram is a schematic diagram and does not represent the actual product

NO	DESCRIPTION	Q'TY	MATERIAL	REMARKS	REV.
1	ANTENNA	1/1000		N/A	A
2	PAD OUT	1/4	SW A골 5T	N/A	A
4	CARTOON BOX	-	SW A골 5T	N/A	A
5	PACKING TAPE	-	PP	N/A	A