

SPECIFICATION FOR APPROVAL

DESCRIBE: Anker Innovations Co., LTD (T8223)

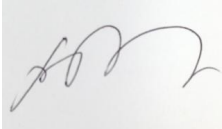
Customer NO: _____

PART NO: ATC1424-HY070B04RA

Antenna type: 2.4 WIFI-Ant FPC (Black)

DATE: 2024. 05. 30

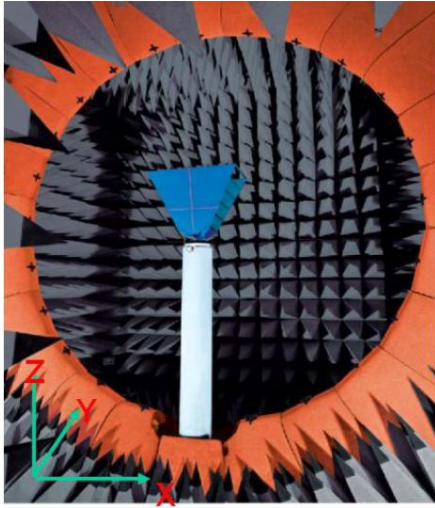
PROVIDER: AT&C TECHNOLOGIES(SHENZHEN) CO. LTD

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

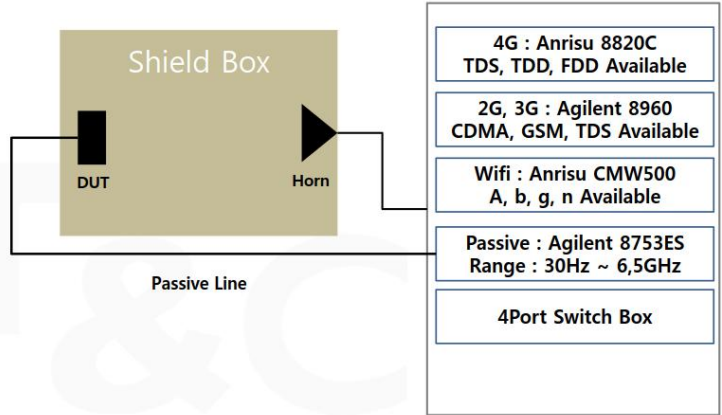
● Chamber System : Satimo 24L

● Measure System Diagram & Equipments

Confidential

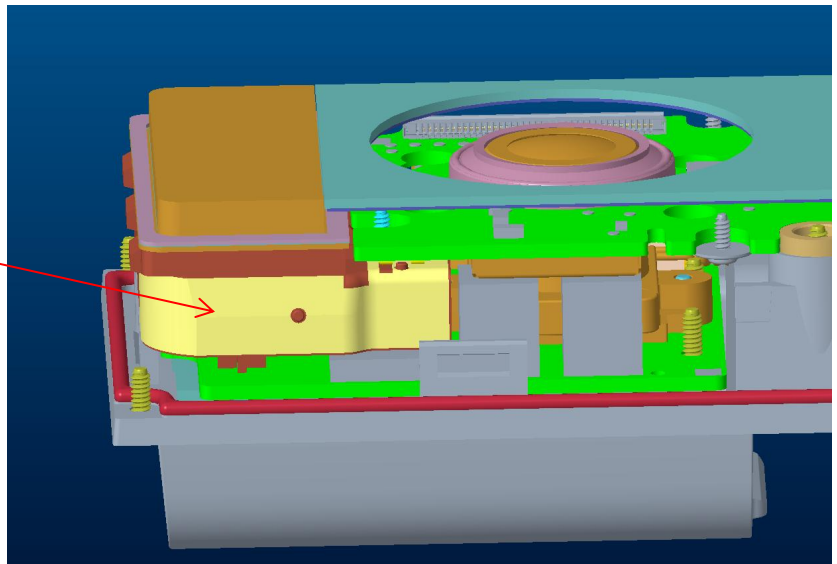


[Fig.] Shield Box



- 4G : Anrisu 8820C
TDS, TDD, FDD Available
- 2G, 3G : Agilent 8960
CDMA, GSM, TDS Available
- Wifi : Anrisu CMW500
A, b, g, n Available
- Passive : Agilent 8753ES
Range : 30Hz ~ 6,5GHz
- 4Port Switch Box

WIFI ANT





BOM

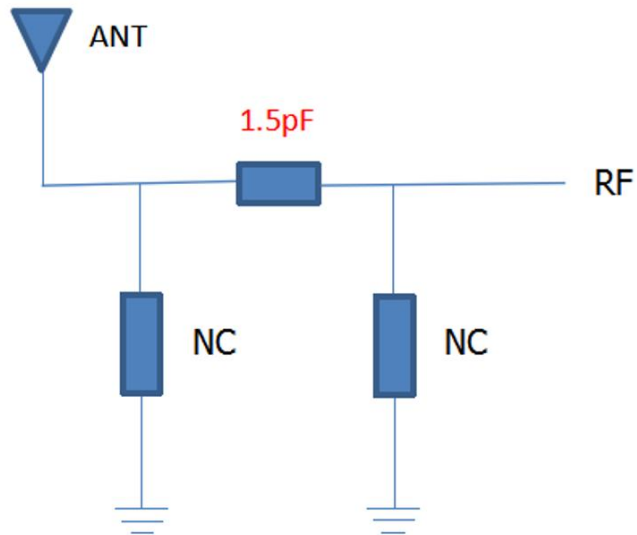
Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30

Customer number	ATC number	Part name
	ATC1424-HY070B04RA	pi+cu, 33.5*10.63, Black

Impedance Matching

Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30

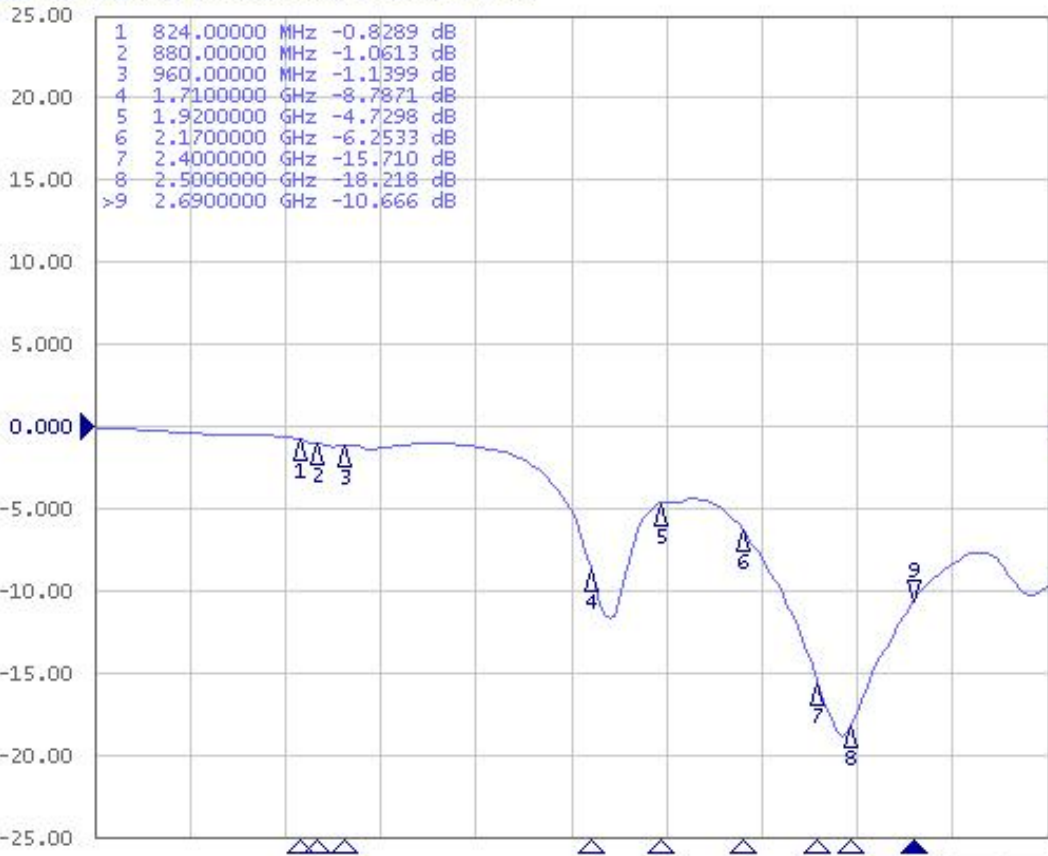
1. Wear a 1.5pf capacitor.



Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]



Display

Allocate Channels

Num of Traces
3

Allocate Traces

Display Mem

Data -> Mem

Data Math
OFF

Equation Editor...

Equation
OFF

Edit Title Label

1 Start 200 MHz IFBW 70 kHz Stop 3.1 GHz Sim PExt C? !



Antenna *Efficiency

Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30

(2.4G) Passive Test Results

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max Gain(dBi)
2400	58.46%	-2.33	2.48
2410	59.12%	-2.28	2.64
2420	58.81%	-2.31	2.82
2430	57.97%	-2.37	2.79
2440	56.83%	-2.45	2.74
2450	56.89%	-2.45	2.76
2460	57.18%	-2.43	2.68
2470	58.63%	-2.32	2.63
2480	60.03%	-2.22	2.90
2490	61.70%	-2.10	3.29
2500	61.25%	-2.13	3.11
AVG:	58.81%	-2.31	2.80

2D Radiation Pattern

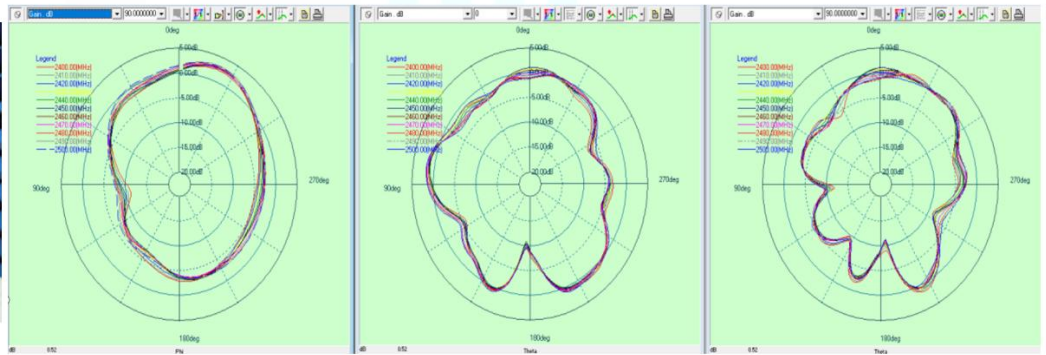
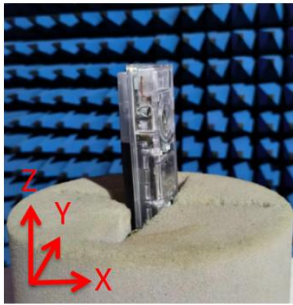
Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30

1. Azimuth Pattern H-Plane : "H", X-Y plane
2. Elevation Pattern E1, E2-Plane) : "E1", "E2", X-Z plane(E1), Y-Z plane(E2)
3. It is a structure that supplements the distortion of the horizontal plane in the vertical plane and has a gentle sphere shape in three dimensions.

H

E1

E2

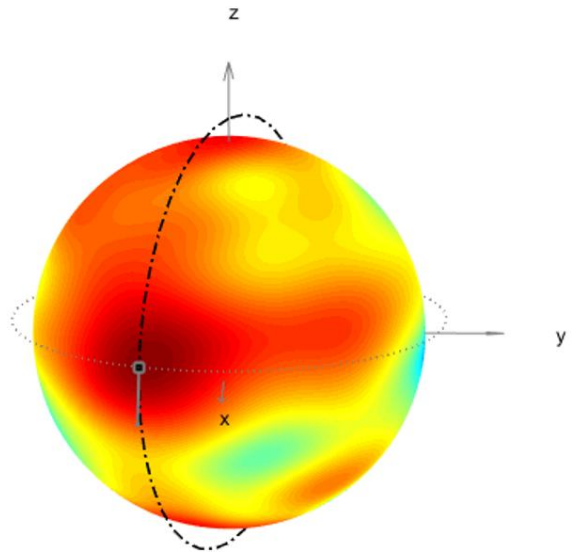
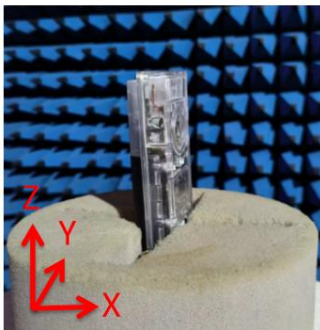


3D Radiation Pattern

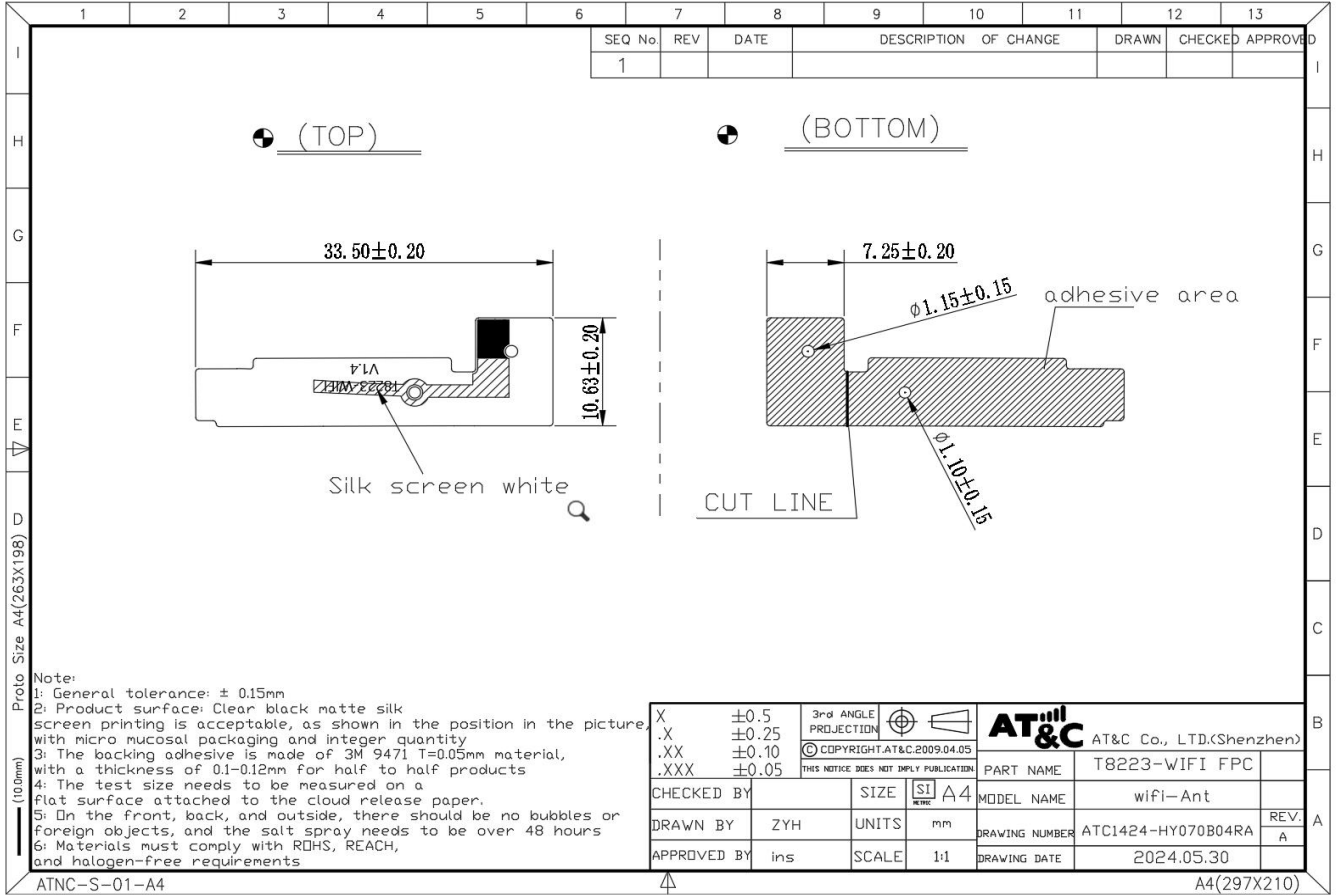
Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30

1. This 3D Radiation Pattern shows the response of each angle antenna gain on the sphere.
2. The objects corresponding to the X-Y-Z axes are shown in the left picture.

2450MHz



Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30



Size information					Measuring sample			% Tolerance		Handling opinions			
number	Dimension property	Dimension	Lower tolerance	Upper tolerance	1	2	3	Upper	Lower	determine	Supplier review comments	Customer review comments	Measuring tool
1	key point	33.5	-0.20	0.20	33.52	33.51	33.48			PASS			PJ
2	key point	10.63	-0.20	0.20	10.68	10.69	10.61			PASS			PJ
3	key point	1.1	-0.15	0.15	1.07	1.11	1.09			PASS			PJ

Salt spray test report

Customer Name:	Anker (T8223)	Specification and model:	ATC1424-HY070B04RA
Sample situation:	Sample quantity: 3PCS		
	Substrate: PI	Coating: Gold plating	
Test start and end time:	From 10:00 on April 9th, 2024 to 10:00 on April 11th, 2024, a total of 48 hour		
Test type:	<input checked="" type="checkbox"/> NSS	<input type="checkbox"/> ASS	<input type="checkbox"/> 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: <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Compressed air pressure: 1kg/cm ²	
	Spray volume: 1.0 ~ 2.0ML/80CM ² /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/T2423.17-2008 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	

Packaging method

PE bag packaging, product emission neat, uniform quantity



Picture: Outer box "I" seal, QC PASS seal on the left side of the outer box, sealed without exposure.



PART LIST

The packing drawing is schematic diagram, which does not mean that the picture is the actual product and the actual shipment is the standard.

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