

SPECIFICATION FOR APPROVAL

DESCRIBE: Anker Innovations Co., LTD (D2090)

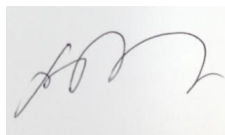
Customer NO:

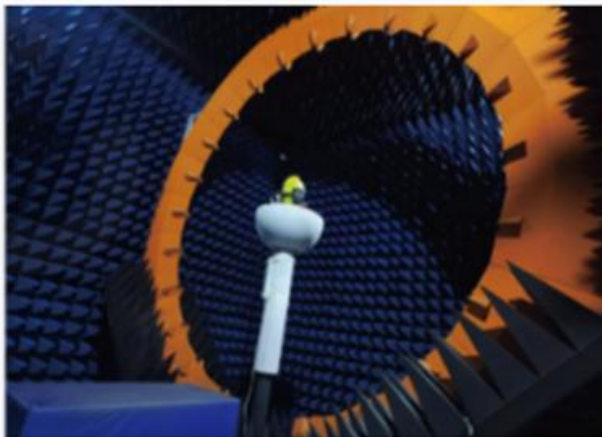
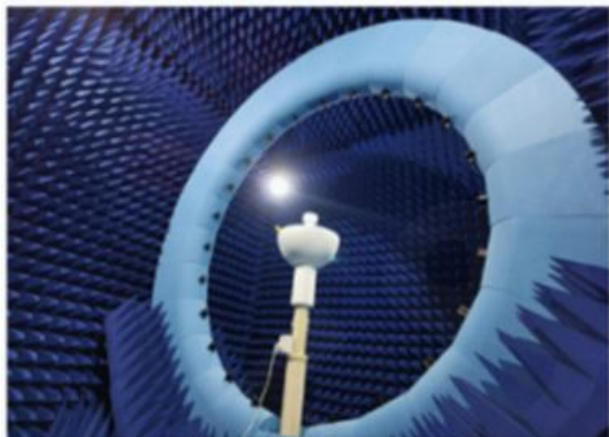
PART NO: ATC1548-AK016B72RA

Antenna type: BT-Ant FPC +Cable(Gray)

DATE: 2025.12.30

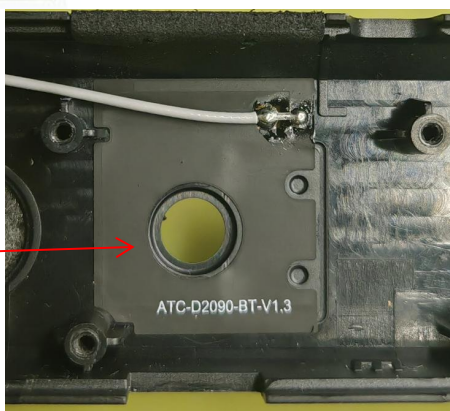
PROVIDER: AT&C Technology (Shenzhen) Co.
201, Building C, Chuangwei Innovation Valley, No.1 Tangtou
Road, Shiyan Street, Bao'an District, Shenzhen, China

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



We possess an original SATIMO laboratory 7M*5M*5M 24-probe setup, as well as a Singapore Airlines 3.5MX3.5MX3.5M 24-probe setup. Both have a frequency range of 400MHZ-8.5GHZ, supporting 2/3/4/5G, WIFI A/B/G/N/AC/AX/BT/GPS NB-10T and other active tests. Additionally, we have simulated head and hand testing equipment

Bt antenna





BOM

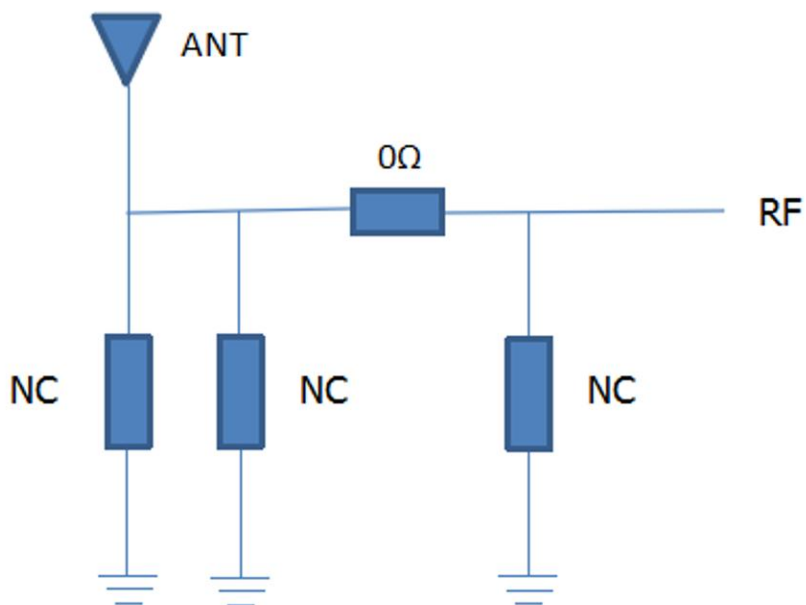
Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30

Customer number	ATC number	Part name
	ATC1548-AK016B72RA	26.53*23.20*0.12, PI+CU, Welding gray coaxial line, wire diameter 1.13, wire length 80mm, equipped with first generation terminals

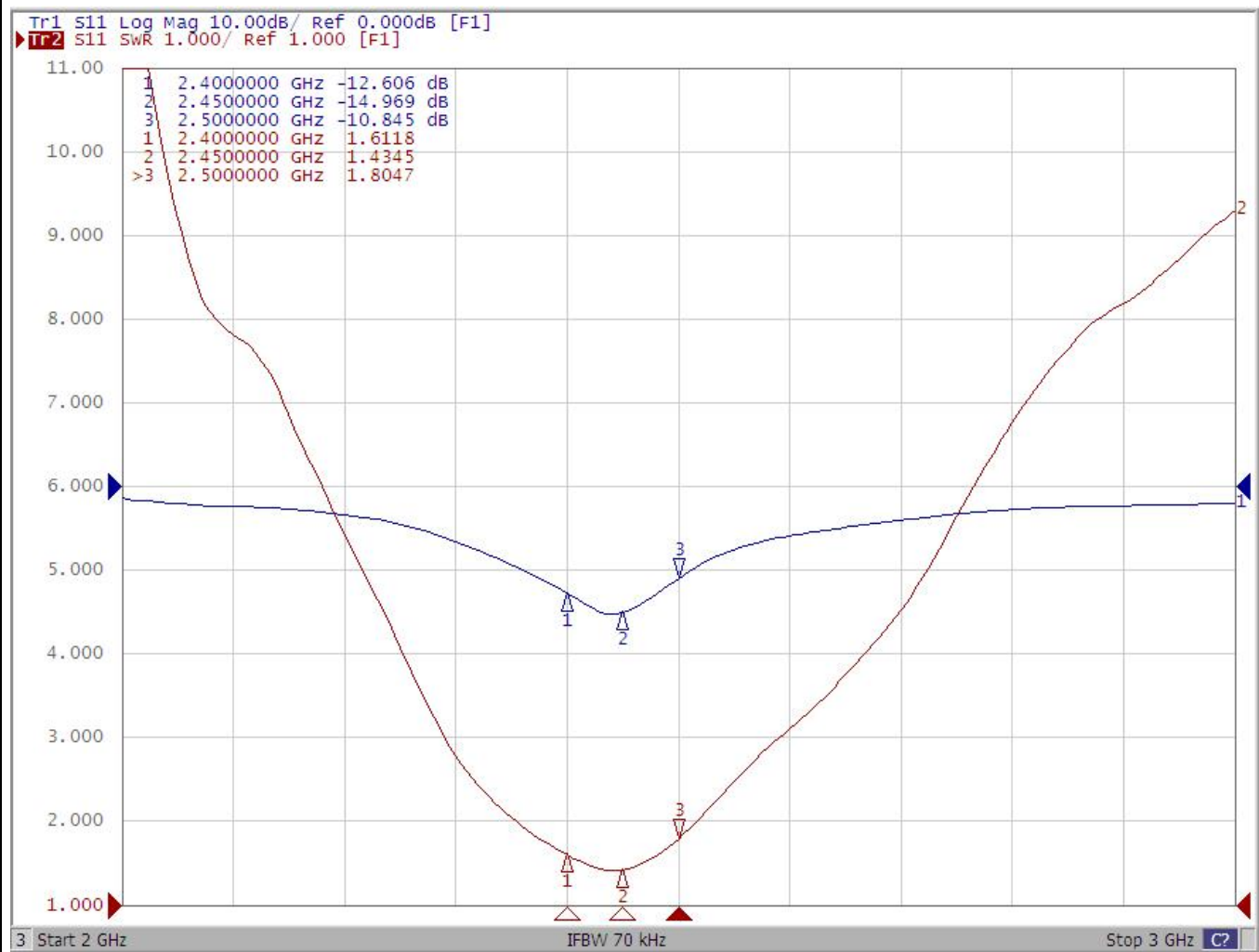
Impedance Matching

Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30

1. No changes made



Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30





Antenna *Efficiency

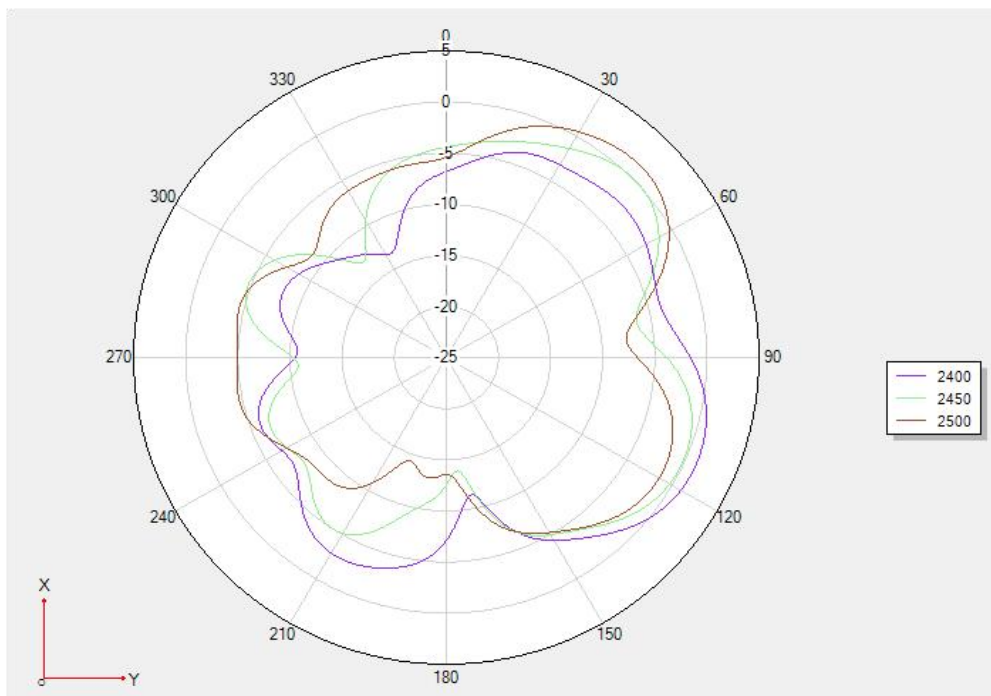
Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30

BT			
Fre	Effi	Effi. dB	Gain. dBi
2400	-3.38	46%	3.96
2410	-3.23	48%	3.77
2420	-3.23	48%	3.65
2430	-3.26	47%	3.46
2440	-3.27	47%	3.62
2450	-3.19	48%	3.28
2460	-3.21	48%	3.15
2470	-3.36	46%	2.74
2480	-3.52	44%	2.82
2490	-3.72	42%	2.68
2500	-3.86	41%	3.29

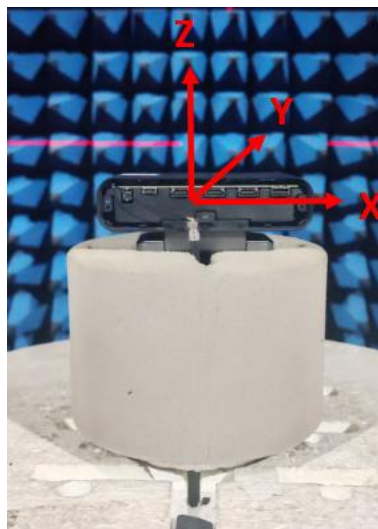
Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30



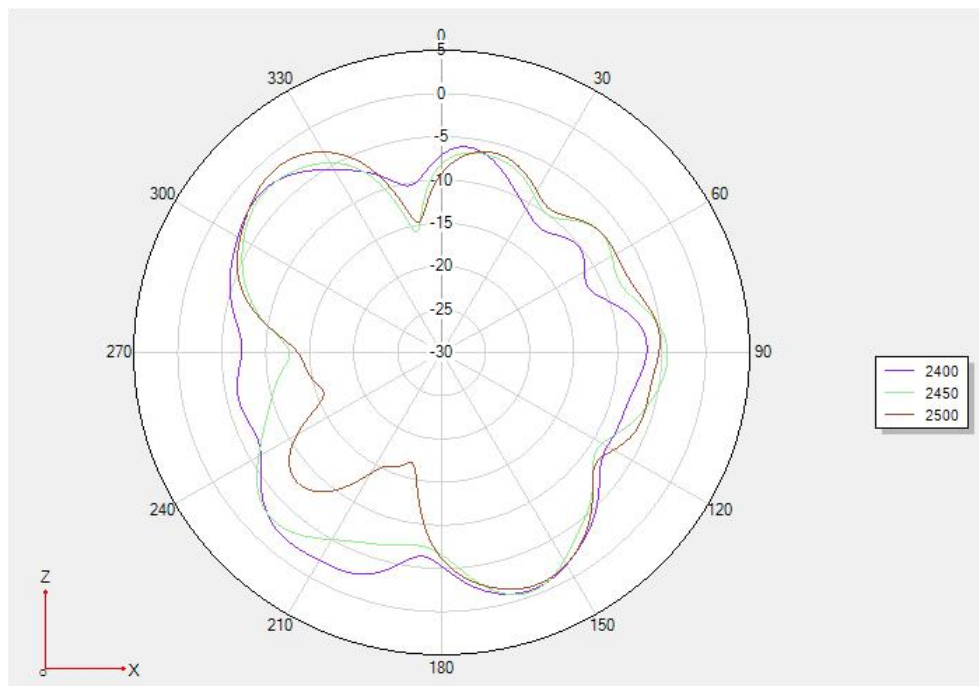
Theta 90



Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30

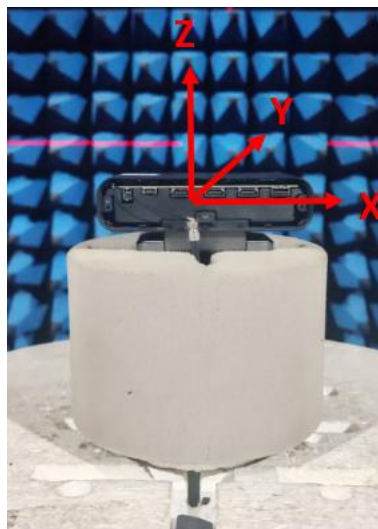


Ph 0

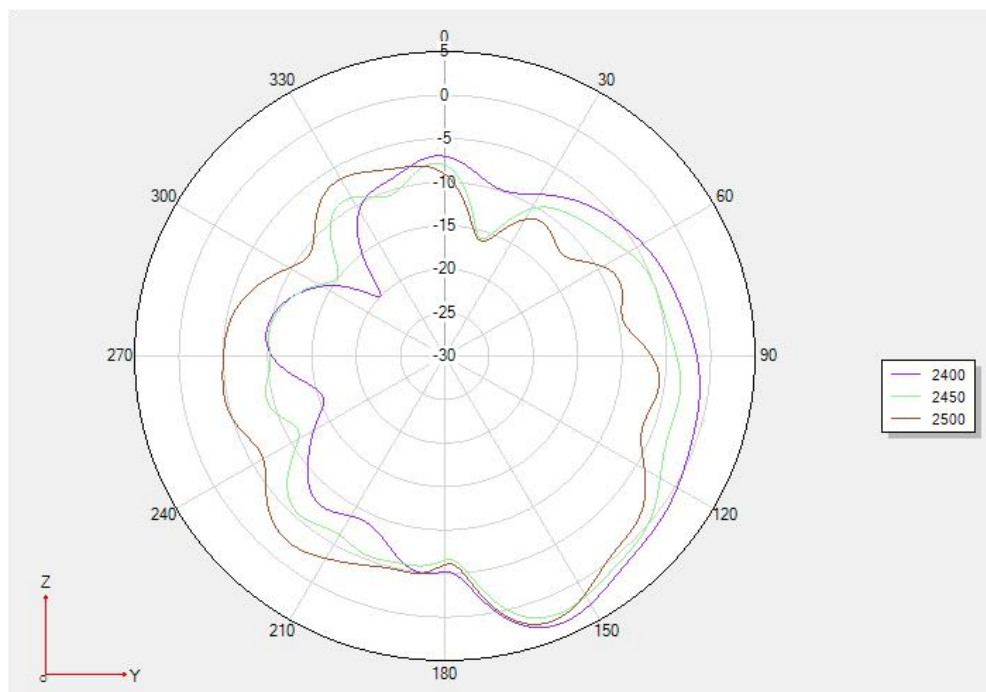


2D Radiation Pattern

Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30



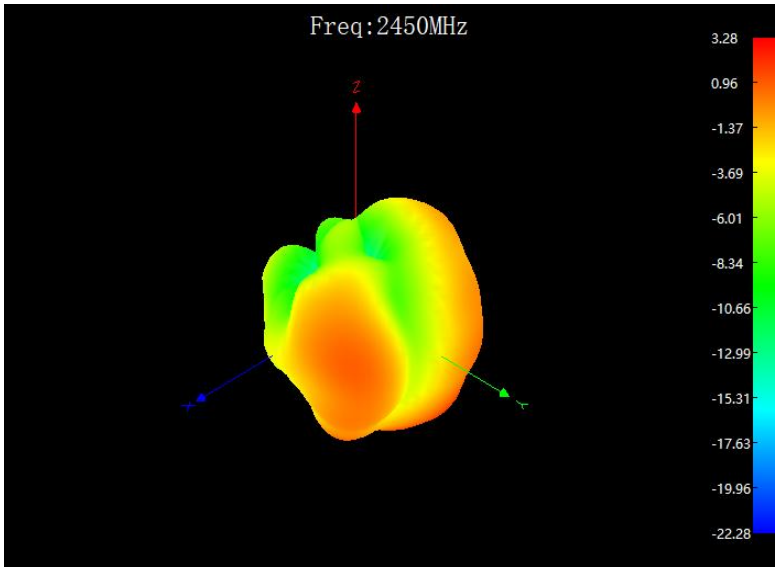
Ph 90

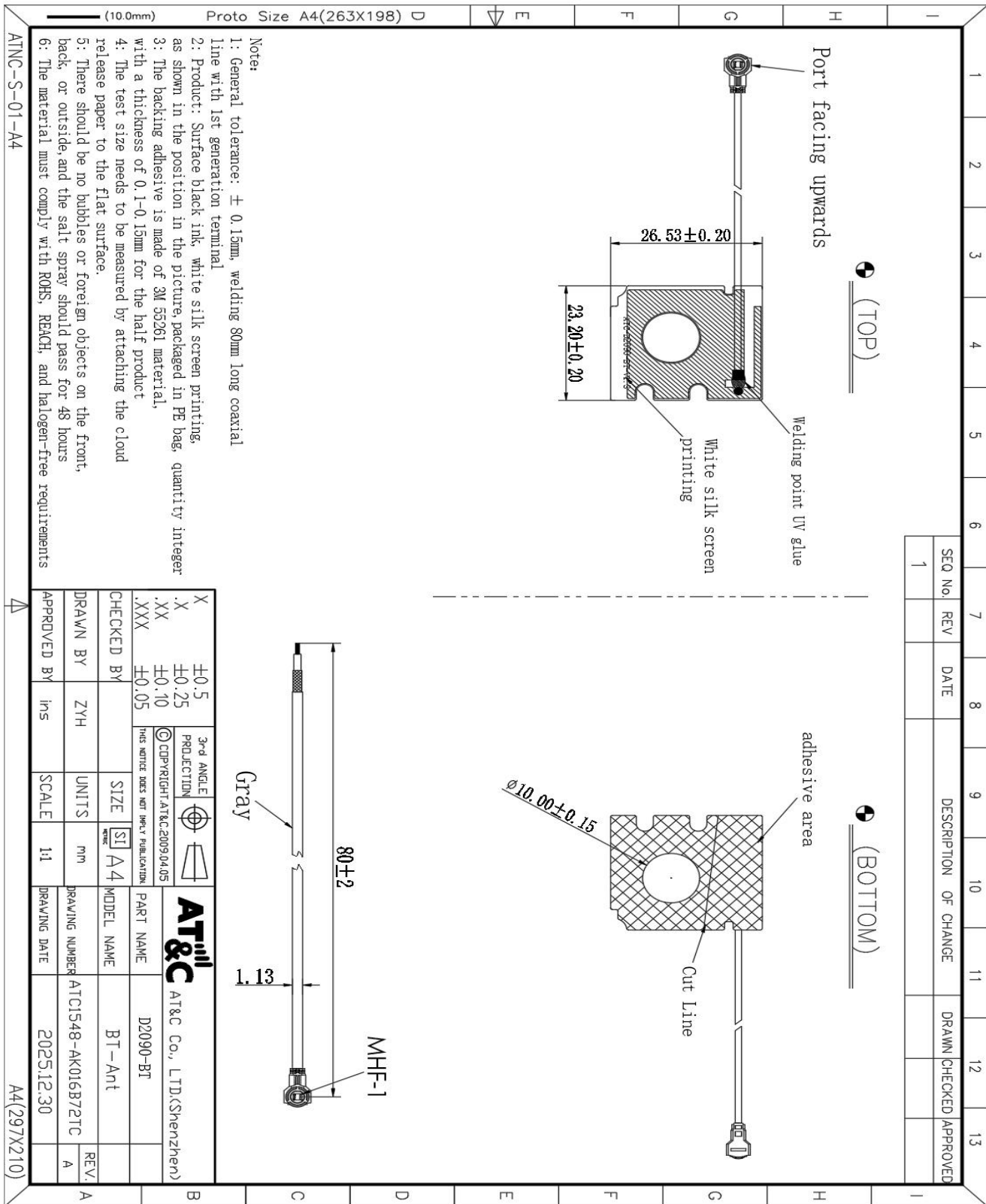


Customer	Anker	Written By	ZYH	Orig. Date	2025.12.30
Part Number	ATC1548-AK016B72RA	Revised By	SHIN	Revised Date	2025.12.30
Description	BT ANT	Approved By	HJ	Approved Date	2025.12.30



2450







Salt spray test report

Customer Name	Anker (D2090)	Specification and	ATC1548-AK016B72RA
Sample situation	Sample quantity: 3PCS		
	Substrate: PI		Coating: OSP
Test start and end time	From 10:00 on December 1, 2025 to 10:00 on December 3, 2025, 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/T2423.17-2008 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	

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	Anime 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	Anime 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		No short circuit, tin connection, or wire sheath burns	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	Anime /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	per month
			Antenna appearance, packaging, and labeling		Refer to Phoebe antenna inspection specifications	AQL0.65