



SHENZHEN ATN COMMUNICATION TECHNOLOGY CO.,LTD.

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SPECIFICATION FOR APPROVL

CUSTOMER:	Aishang Interactive (Shenzhen) Technology Co., Ltd
CUSTOMER PRJ:	Game console handheld device
CUSTOMER P/N:	
OUR PRJ:	ATN86001
SPECIFICATIONS:	ANT
Q' TY:	1 PCS
DATE:	2024. 8. 9

A T N			CUSTOMER		
make	examine	Approver	Structure	Electronics	Approver

Address: 504-505,XiaGu,Wonderful life creative valley,Xinan,Baoan,ShenZhen.
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1、 Test Equipment&Conditions

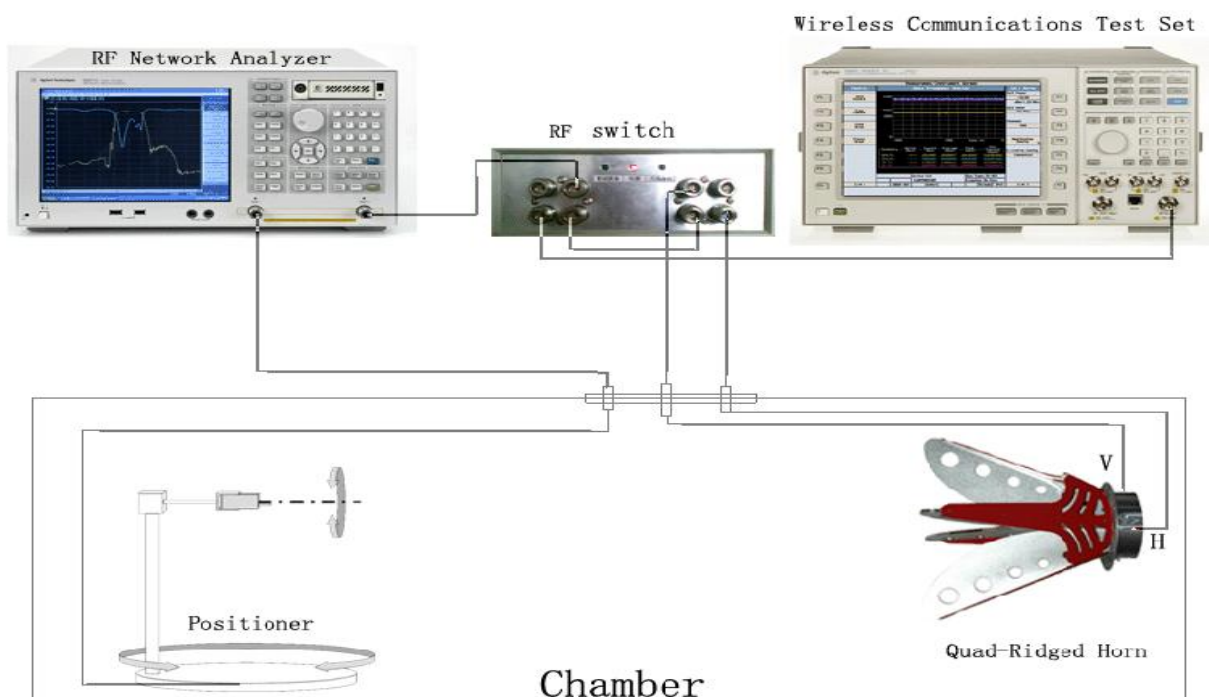
1.1 (Network Analyzers)

Agilent Technologies E5071B

1.2 (Communications Test Set)

CMW500

1.3 (3D Chanber Test System)





2、Product Specification

2.1、Material&Mechanical Characteristics

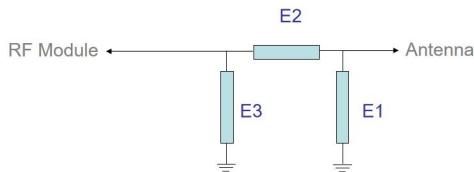
Material	FPC
Antenna type	dual polarized antenna

2.2、Storage conditions

Storage Temperature	22℃±5℃
relative humidity	35-65%
Storage life	360 day

3、Matching circuit

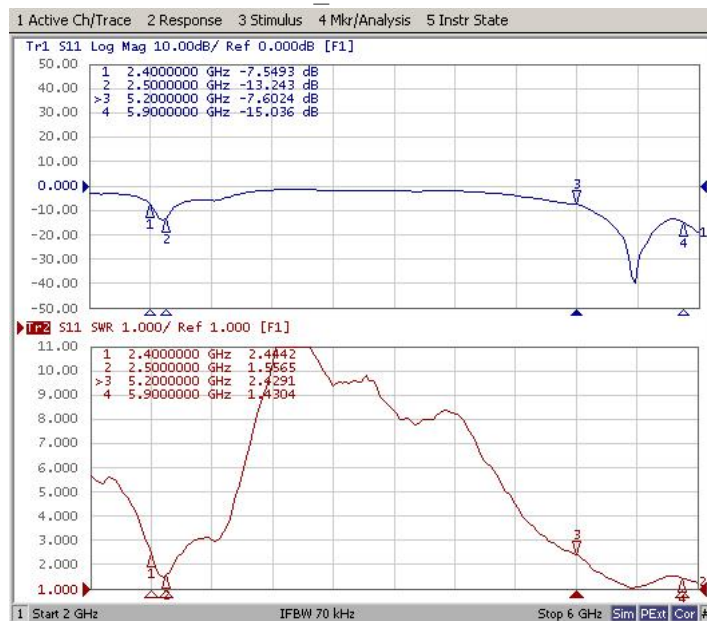
wifi



Element	Value
E1(0201)	NC
E2(0201)	0Ω
E3(0201)	NC

4 、Test Data Report

4.1 S11 Parameter_WIFI

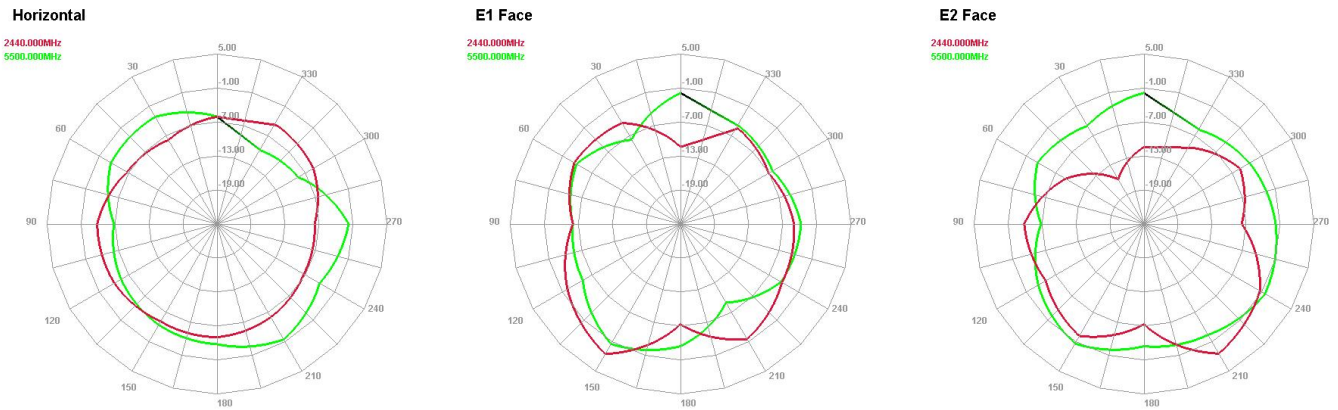


4.2 Gain & Efficiency_WIFI

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	41.21	-3.85	2.51
2410	40.32	-3.95	2.52
2420	40.65	-3.91	2.64
2430	43.03	-3.66	2.93
2440	41.77	-3.79	2.73
2450	44.01	-3.56	2.83
2460	43.54	-3.61	2.83
2470	44.17	-3.55	3.04
2480	44.13	-3.55	3.14

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5100	25.93	-5.86	-2.12
5200	33.69	-4.72	-0.55
5300	36.64	-4.36	0
5400	41.73	-3.8	0.44
5500	41.42	-3.83	1.34
5600	47.7	-3.21	1.84
5700	41.66	-3.8	0.97
5800	47.38	-3.24	0.95
5900	41.66	-3.8	-0.31

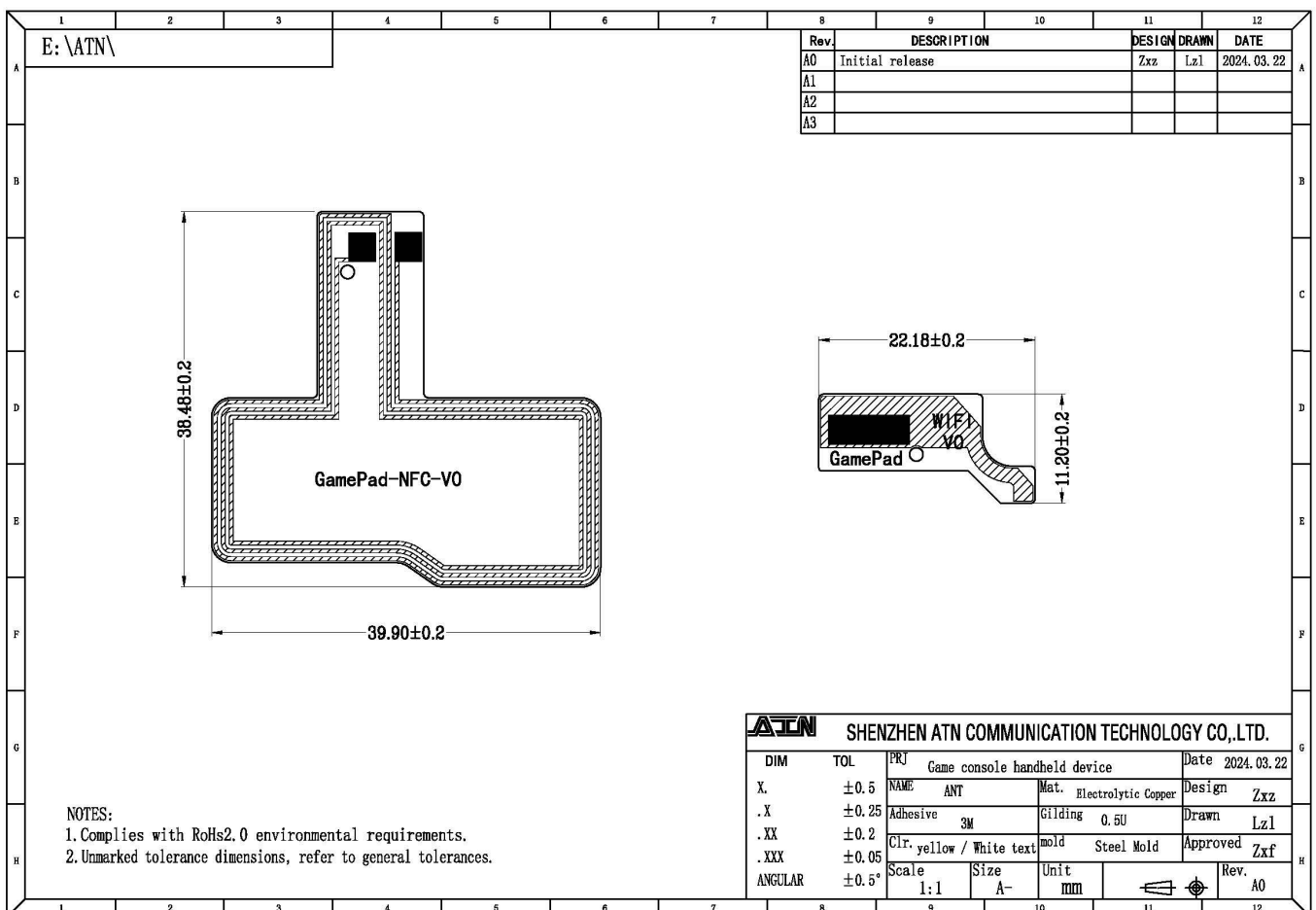
4.3 Radiation pattern_WIFI



4.4 NFC antenna parameter

Inductance	0.75 μ H
Loss resistance	1.7 Ω
Self-resonant frequency	114MHz
Self-resonant resistance	22k Ω

5、Product Drawing





6、Size test report

Dimension test report

project: ATN86001			Product Name: ANT					
category: FPC			Quantity: 5 pcs				Date: 2024.08.09	
Inspection basis and standard			☒ Engineering drawings ☐ Standard template ☐ Other_____					
Measurement equipment & accuracy			Vernier caliper & 0.02mm					
Inspection items			test value					determine
			1	2	3	4	5	
Dimensional inspection	1.	38.48±0.2	38.56	38.52	38.50	38.58	38.60	ok
	2.	39.9±0.2	39.92	39.96	39.92	39.98	39.98	ok
	3.	22.18±0.2	22.26	22.22	22.28	22.30	22.26	ok
	4.	11.2±0.2	11.26	11.30	11.20	11.26	11.28	ok
	5.	/						
	6.							
	7.							
	8.							
	9.							
	10.							
	11.							



7、Salt spray test report

project	ATN86001	Product Name:	ANT
Sample information	quantity: 5PCS		
	material quality: Electrolytic copper	Coating: 1U"Gold plating1U"	
Test conditions	Salt solution: 5%		PH:7.0
	Test temperature: 35°C		relative humidity: 5%
	Spray mode: ■ continuous		air pressure: 1kg/cm ²
	Salt spray settling rate:		Mist collection: PH7.0nac
	Test cycle: __1__		Spray time: 24 h
test result	Appearance after test: the appearance is intact without obvious change		
	Coating: no peeling and corrosion		
	Surface spraying and silk screen printing: no falling off and bubble		
Test judgment	OK		
Notes: 1、 . The operation standard of salt spray test shall be in accordance with the national standard of the people's Republic of China GB / t2423 17-2008 implementation. 2、 The judgment standard of test piece results shall be in accordance with the national standard of the people's Republic of China GB / t6461-02.			



8、Manner of packing

SHENZHEN ATN COMMUNICATION EQUIPMENT CO.LTD

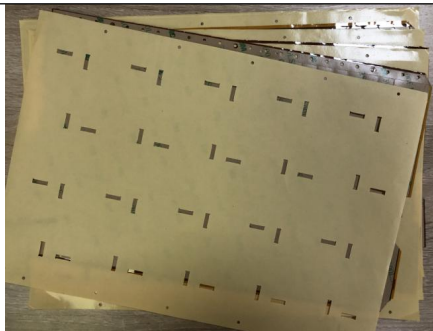
Product packaging

edition: : V1.0

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1.

Barrier paper protection products



2.

Sealing bag packaging effect



3. Carton sealing effect

