



Shenzhen Tianweixun wireless technology co.,ltd.

Product performance and specification

CUSTOMER NAME: _____

2. 4G+5G
3-WIFI-2450-05 Antenna, BT+WIFI,
FPC+0.18mm*109mm

PRODUCT NAME: _____

NOTE: _____

Client	Admit manufacturing party		
Customers confirmation	Quality department	R&D	Approval
		ME: RF:	
Date:	Date: 2022-11-30		

Shenzhen Tianweixun wireless technology co.,ltd.

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Shenzhen Tianweixun wireless technology co.,ltd.

Issuer	XianMing Liao	Product performance and specification	VER	V0
Design department	R&D center		DATE	2022-11-25

Catalogue

1.1PROJECT PHOTO.....	II
1.1.1ANTENNA MACHING CIRCUIT	II
2.1 PRODUCT DESIGN PURPOSE	II
3.1ANTENNA INTRODUCED.....	III
3.1.1 ANTENNA DATA AND MATERIALS	III
3.1.2 ANTENNA MODE	III
3.1.3 ANTENNA DSINGN FREQUENCY BAND	III
3.1.4 THE ANTENNA IS TEST IN ETS-SG24 SYSTEM 3D DATA	4
3.1.5 ANTENNA PASSIVE VSWR AND RETURN LOSS	5
3.1.6 ANTENNA ACTUAL TEST RESULTS	6
4.1 DRAWINGS OF PRODUCT DESIGN	6

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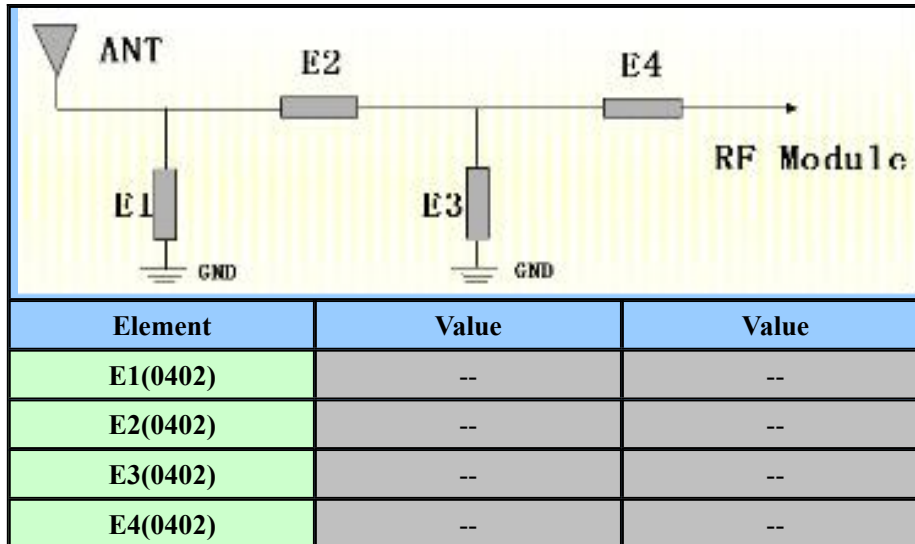
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1.1 Project photo

NO photo

OdinSmart

1.1.1 Antenna Matching Circuit



Matching mark: No change in matching circuit.

2.1 Product design purpose

To standardize the testing method of the product specification of communication

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terminal antenna produced by shenzhen tianweixun wireless technology co., LTD., to avoid errors caused by different testing conditions and method.

3. 1 Antenna

3. 1. 1 Antenna electrical specification and material

This report mainly provides the test status of the structural performance parameters of OdinSmart antenna



Photo of antenna designed by tianweixun

3.1.2 ANTENNA MOLD:

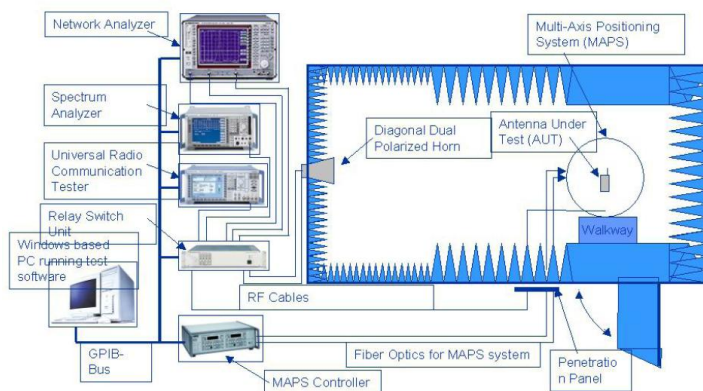
Antenna category: monopole

Antenna material: FPC

3. 1. 3 ANTENNA DESIGN FREQUENCY BAND:

The antenna frequency band is 2400MHz~2500MHz , 5150mhz~5250mhz, 5700mhz~5800mhz

3.1.4 THE ANTENNA IS TEST IN ETS-SG24 SYSTEM 3D CHAMBER



picture (1) ETS-SG24 SYSTEM



picture (2) The product is placed in the 3D test device

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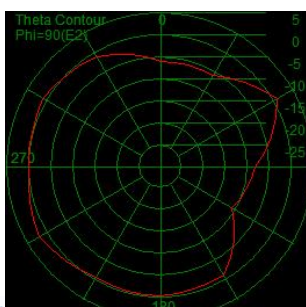
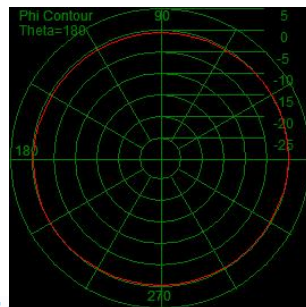
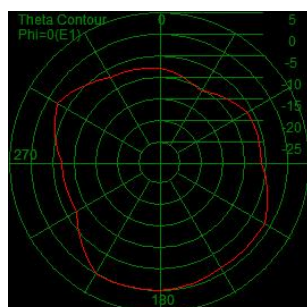
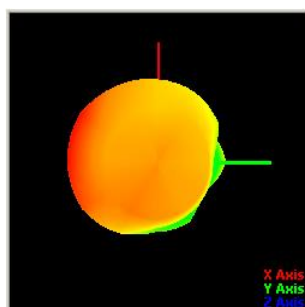
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3D data designed by tianweixun(Gain 、 Efficiency and pattern):

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	2400.0	2400.00	2.37	5.76	45.8%
2	2410.0	2410.00	2.55	5.74	48.0%
3	2420.0	2420.00	2.55	5.78	47.6%
4	2430.0	2430.00	2.72	5.85	48.6%
5	2440.0	2440.00	2.80	5.92	48.8%
6	2450.0	2450.00	3.08	6.02	50.8%
7	2460.0	2460.00	3.14	6.09	50.7%
8	2470.0	2470.00	3.17	6.22	49.6%
9	2480.0	2480.00	3.24	6.25	50.0%
10	2490.0	2490.00	3.32	6.34	49.9%
11	2500.0	2500.00	3.35	6.36	50.0%
12	5150.0	5150.00	0.68	6.00	37.1%
13	5160.0	5160.00	0.49	6.27	41.9%
14	5170.0	5170.00	0.65	6.21	35.0%
15	5180.0	5180.00	0.63	6.29	34.2%
16	5190.0	5190.00	0.65	6.34	34.0%
17	5200.0	5200.00	0.56	6.15	34.7%
18	5210.0	5210.00	0.96	6.34	36.5%
19	5220.0	5220.00	0.88	6.49	34.6%
20	5230.0	5230.00	0.74	6.46	33.7%
21	5240.0	5240.00	0.58	6.21	34.4%
22	5250.0	5250.00	0.66	6.16	35.5%
23	5700.0	5700.00	0.47	4.44	40.1%
24	5710.0	5710.00	0.19	4.39	38.0%
25	5720.0	5720.00	0.50	4.62	38.8%
26	5730.0	5730.00	0.28	4.29	39.8%
27	5740.0	5740.00	0.38	4.45	39.2%
28	5750.0	5750.00	0.87	4.99	38.7%
29	5760.0	5760.00	-0.10	4.26	36.7%
30	5770.0	5770.00	-0.04	4.36	36.3%
31	5780.0	5780.00	0.46	4.43	40.0%
32	5790.0	5790.00	0.43	4.39	40.2%
33	5800.0	5800.00	0.49	4.55	39.3%

2400MHZ:

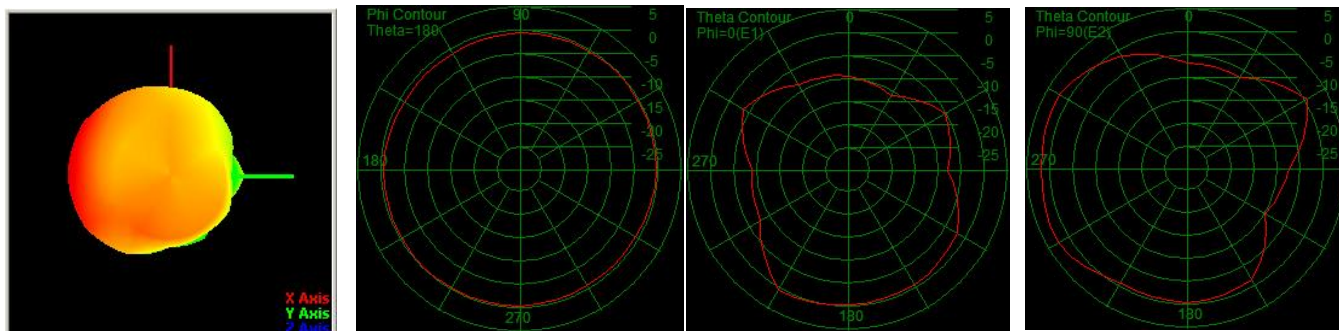


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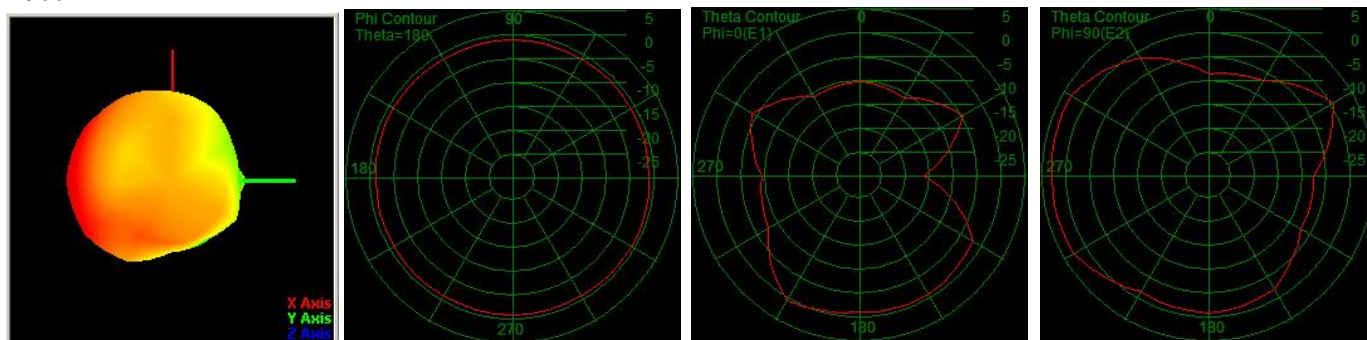
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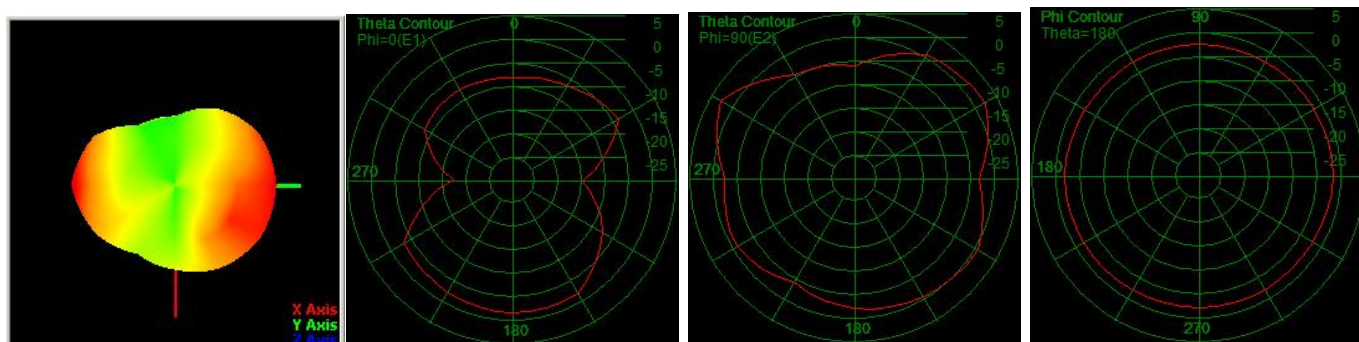
2450MHZ:



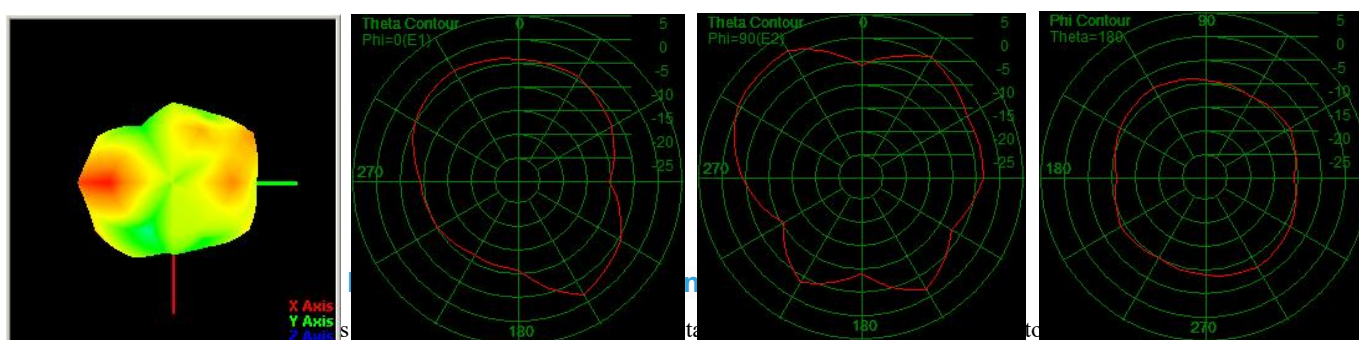
2500MHZ:



5150MHZ:



5250MHZ:

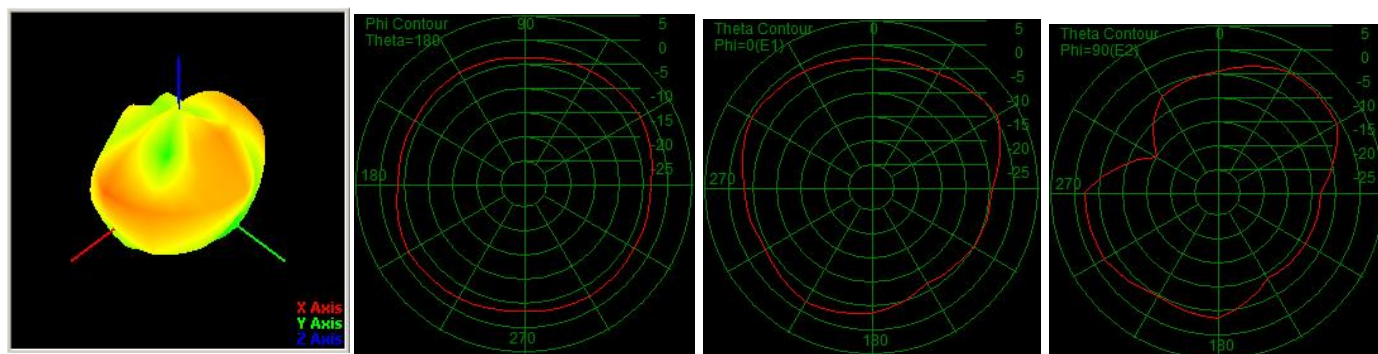


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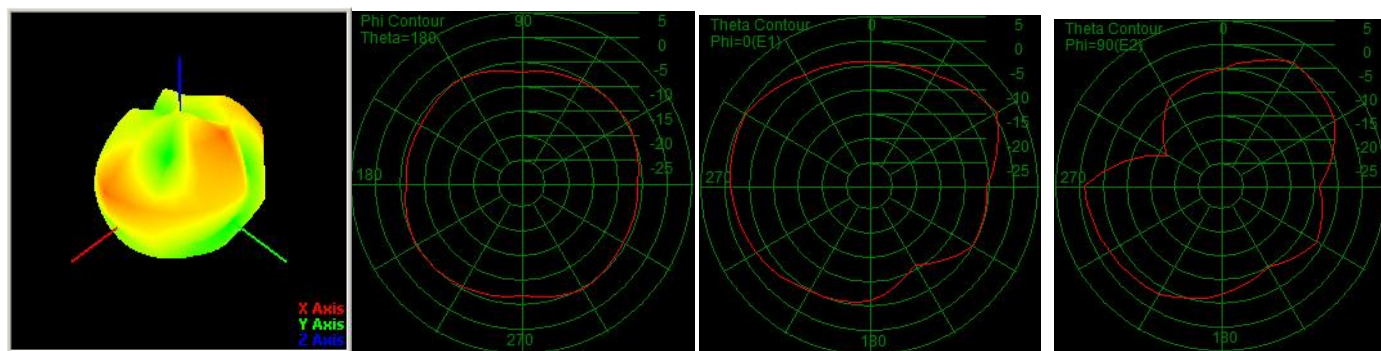
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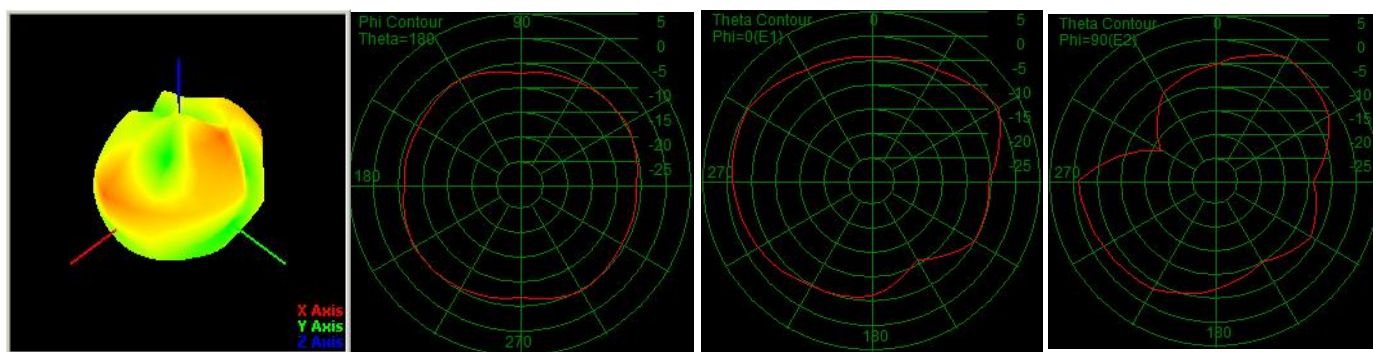
5700mhz:



5750mhz:



5800mhz:



3.1.5 ANTENNA PASSIVE VSWR AND RETURN LOSS

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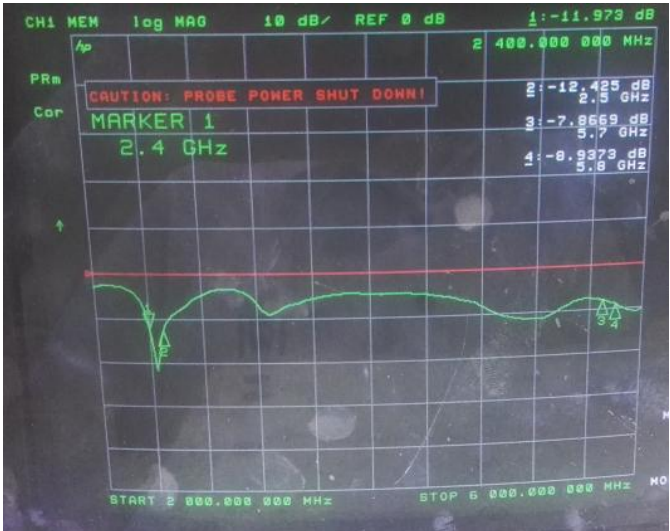
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(VSWR)



(Return loss)

3.1.6 ANTENNA ACTUAL TEST RESULTS (Active)

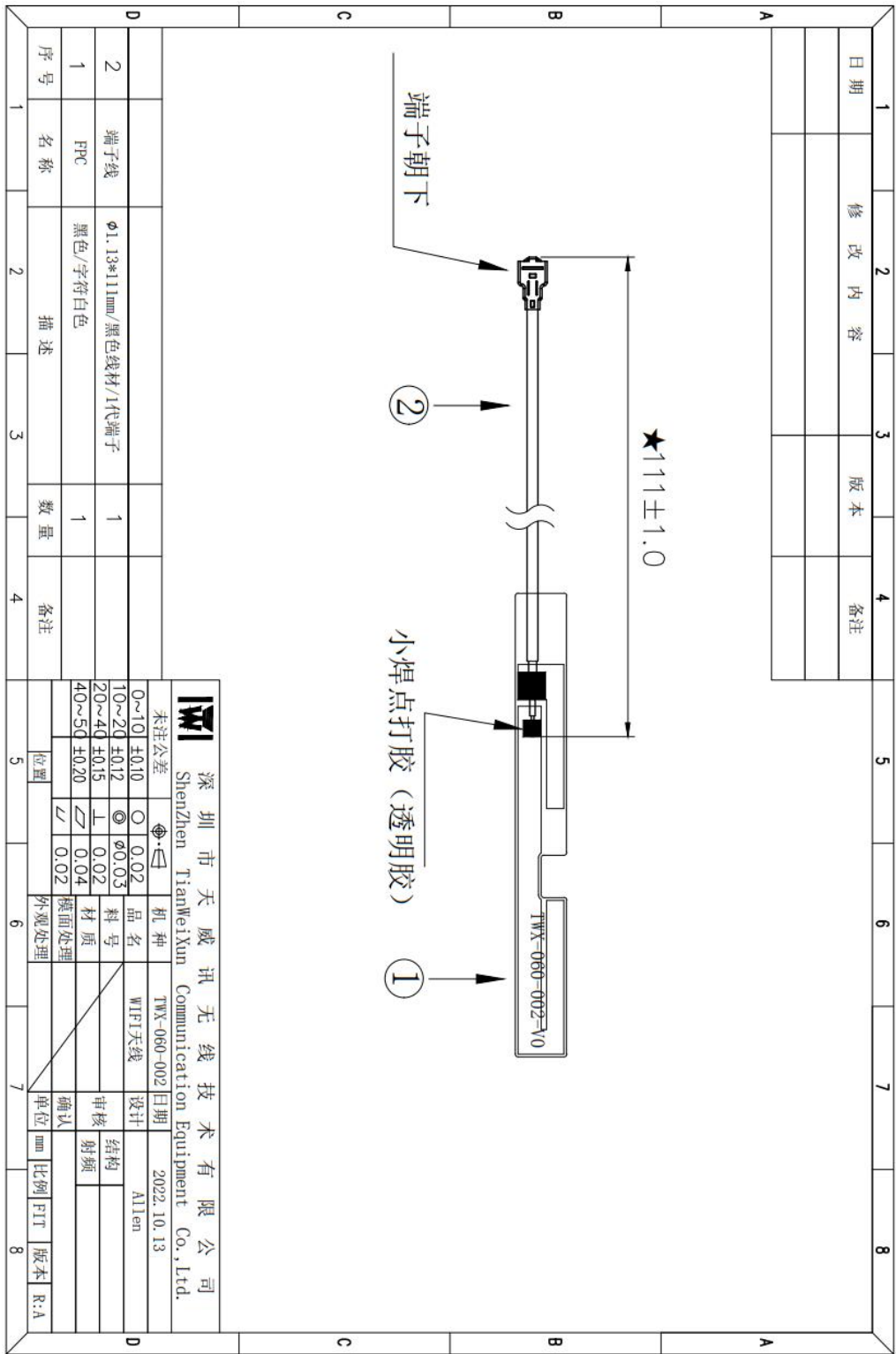
4.1 DRAWUNG OF PRODUCT DESING

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