



Shenzhen Xingtong Wireless

Shenzhen Xingtong Wireless Technology Co., Ltd

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Ea Address: Xixiang, Baojiewei Qiangrongdong 3 Bu

Product Specification

Name of : K2

Product part : 2.4GHZ/BT Shrapnel

Producer	Ex St	Su A
Huang	Wu	2023-11-09

Customer

Customer	Shanghai Feizhi Electronic
Approval	
Time:	
Note:	

Please sign and seal it and return a copy to our company for file.

 深圳市星通无线技术有限公司 ShenzhenXingtongWieressTechnologyCo.,Ltd	Date	2023-11-09	
	versions	A0	
	File NO.	XT-YF-004	
Model	K2-BT	Code	XT088-BT-2.4GHZ

1.Product structure (**Product Constrution**)

- 1. Antenna material: white copper
- 2. Back glue model: none
- 3. Antenna size: 16.7*13*0.3mm (To ± 0.1)
- 4. Appearance treatment: surface antioxidant treatment

2.Basic information (**Parameters**)

- Scope of use: customer-supplied machines
- Antenna frequency: 2.4-2.48Ghz
- Average gain of antenna free space: $2.4 \geq 2.0$ dbi
- Antenna impedance: 50ohm
- Installation method: direct plug-in welding
- Packaging method: use Polyethylene Bag + Packing box

3.Aerial **S11**Value

- 3.1: Antenna standing wave ratio/Loss value

Frequency point	2400mhz	2450mhz	2480mhz
SWR(dbm)	1.93	1.32	1.1
LOG (Dbm)	-9.9	-17.1	-22.2



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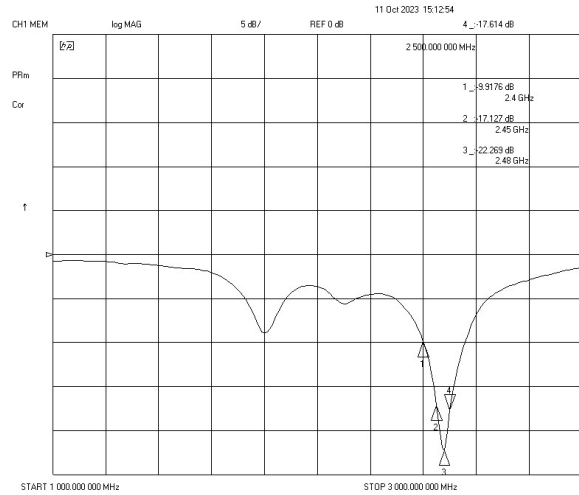
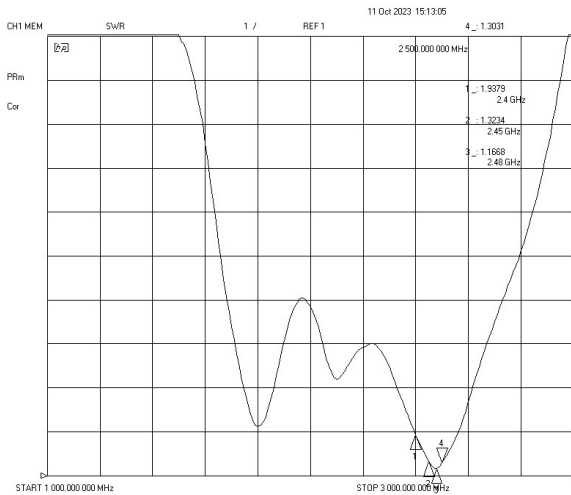
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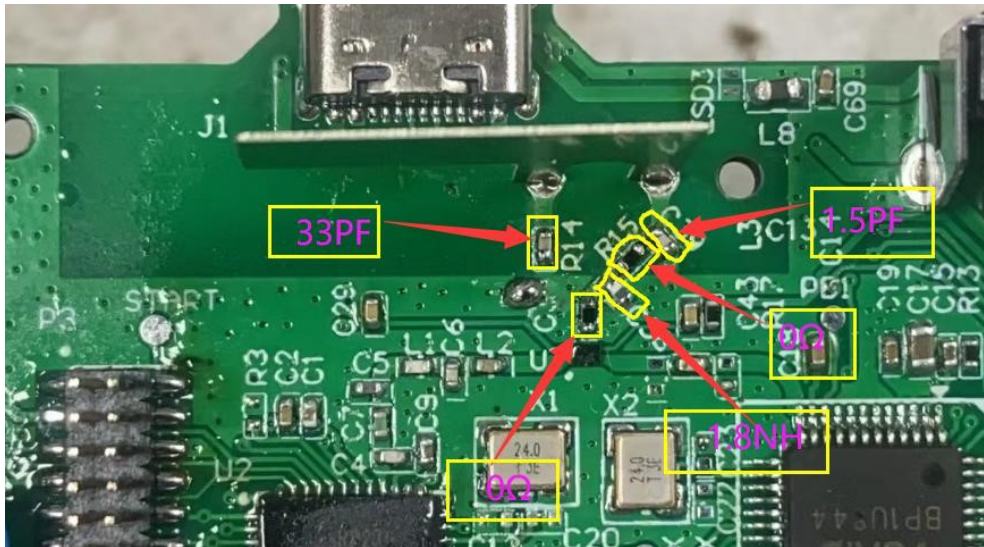


■ 3.2: Antenna parameters:

4. Antenna performance(OTA)

■ 4.1: Antenna matching suggestions

Vector impedance modulation can be carried out.



■ 4.2: AntennaOTA/Efficiency/Gain (test instruments: network analyzer, oscilloscope, customer-supply engineering prototype, various standard cards, etc.)



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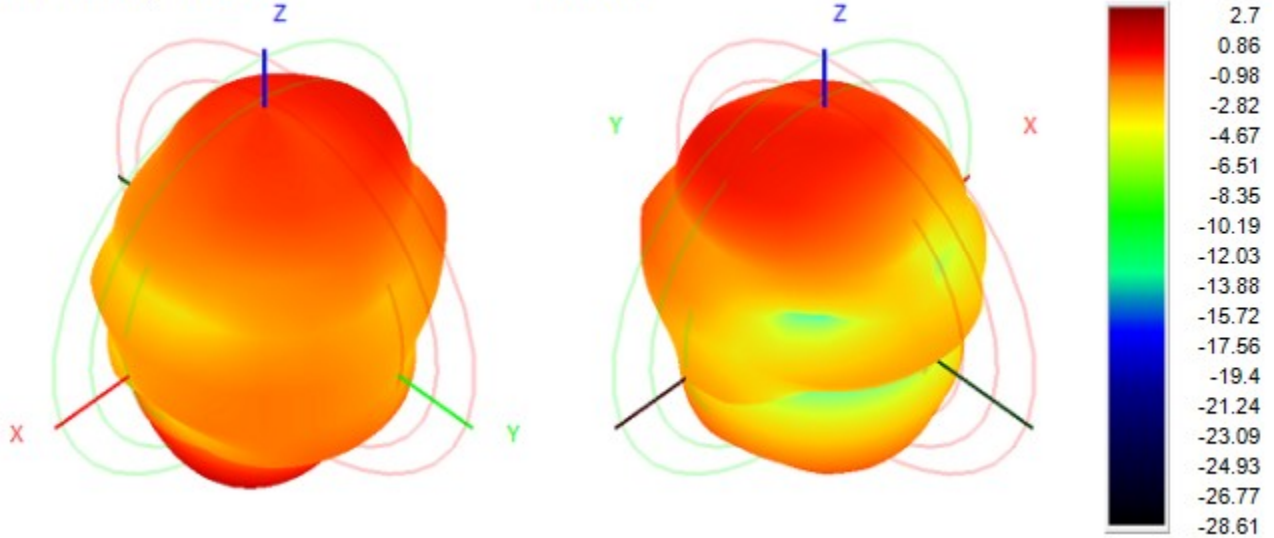
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-5.82	-5.86	-5.66	-5.67	-5.91	-5.61	-5.68	-5.86	-5.53	-5.72	-5.82
Peak EIRP (dBm)	2.70	2.61	2.76	2.70	2.42	2.57	2.30	1.95	2.08	1.72	1.44
Directivity (dBi)	8.52	8.47	8.42	8.37	8.33	8.18	7.98	7.81	7.61	7.45	7.26
Efficiency (dB)	-5.82	-5.86	-5.66	-5.67	-5.91	-5.61	-5.68	-5.86	-5.53	-5.72	-5.82
Efficiency (%)	26.20	26.00	27.20	27.10	25.60	27.50	27.10	25.90	28.00	26.80	26.20
Gain (dBi)	2.70	2.61	2.76	2.70	2.42	2.57	2.30	1.95	2.08	1.72	1.44
NHPRP \pm Pi/4 (dBm)	-9.08	-9.13	-8.95	-8.95	-9.16	-8.81	-8.81	-8.96	-8.60	-8.74	-8.80
NHPRP \pm Pi/6 (dBm)	-11.10	-11.19	-11.01	-11.01	-11.21	-10.82	-10.82	-10.97	-10.64	-10.81	-10.90
NHPRP \pm Pi/8 (dBm)	-12.62	-12.69	-12.49	-12.45	-12.59	-12.14	-12.12	-12.25	-11.94	-12.12	-12.24
Upper Hem. PRP (dBm)	-9.52	-9.49	-9.25	-9.22	-9.41	-9.02	-8.99	-9.07	-8.66	-8.80	-8.89
Lower Hem. PRP (dBm)	-8.23	-8.32	-8.16	-8.20	-8.49	-8.26	-8.40	-8.68	-8.42	-8.66	-8.78
Upper Hem. PRP (%)	11.16	11.24	11.87	11.97	11.47	12.54	12.61	12.38	13.60	13.17	12.91
Lower Hem. PRP (%)	15.03	14.73	15.28	15.12	14.15	14.92	14.45	13.55	14.38	13.60	13.26

4.3: AntennaOTA-2.4G-3D

2.4GHz: Maximum gain 0.47dBi

2400.0MHz H+V, Eff: 26.3%

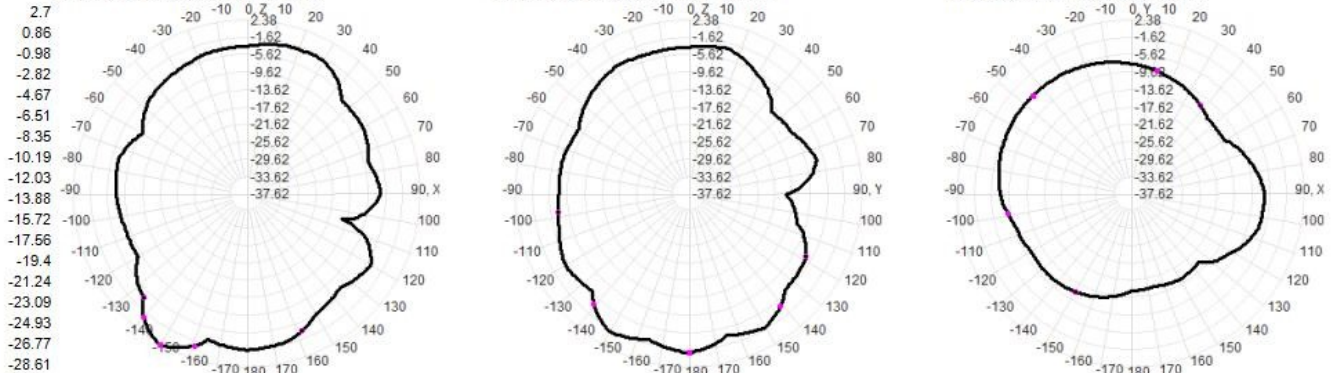
Back View



2400.0MHz Total(E1-XZ), Max= 2.38dBi

2400.0MHz Total(E2-YZ), Max= -1.12dBi

Total(H-XY), Max= -5.75dBi, CirD=10.01



2.45GHz: Maximum gain 2.57dBi



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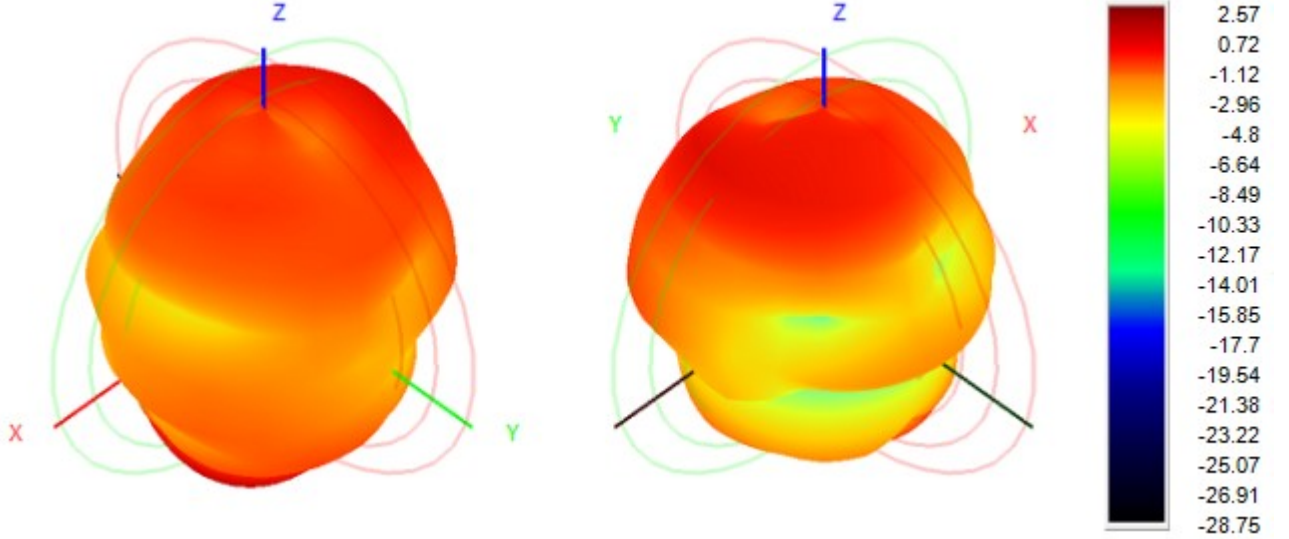
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2450.0MHz H+V, Eff: 27.5%

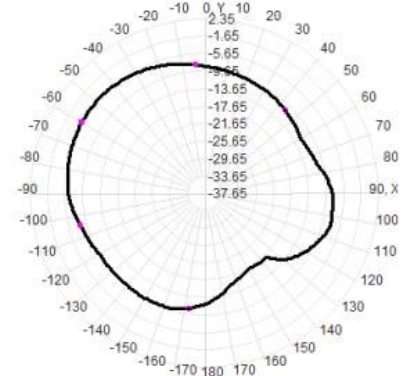
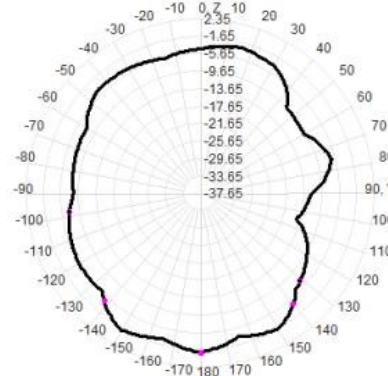
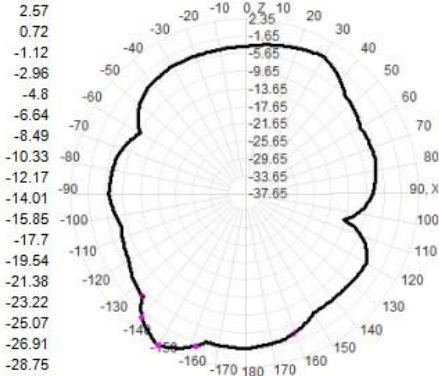
Back View



2450.0MHz Total(E1-XZ), Max= 2.35dBi

2450.0MHz Total(E2-YZ), Max= -1.37dBi

Total(H-XY), Max= -5.11dBi, CirD=12.65

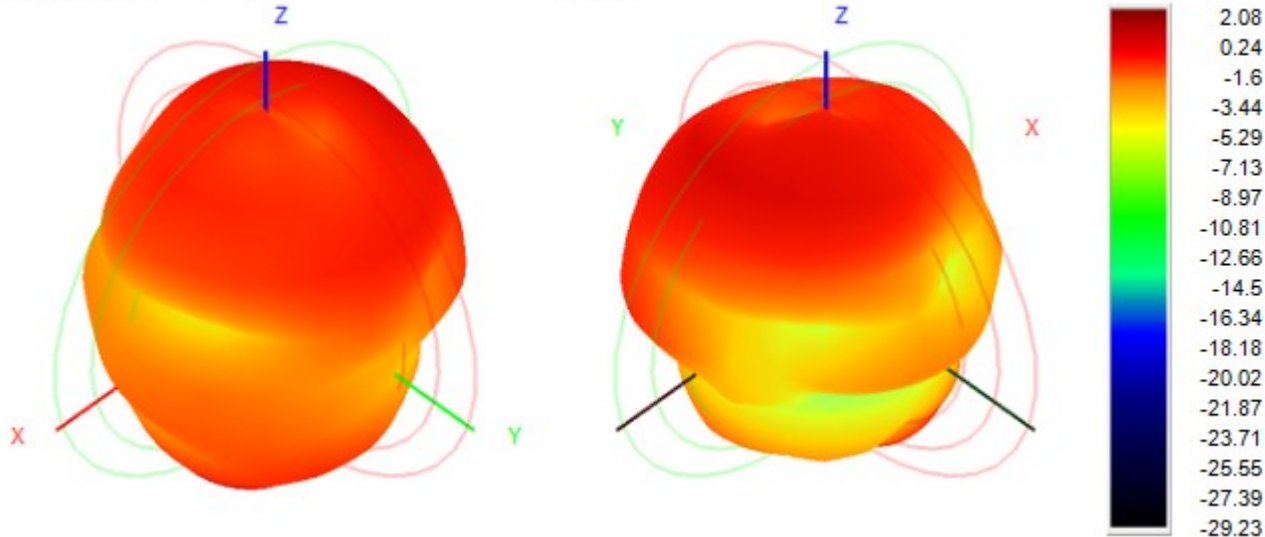


2.80GHz: Maximum gain 2.08dBi

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2480.0MHz H+V, Eff: 28.0%

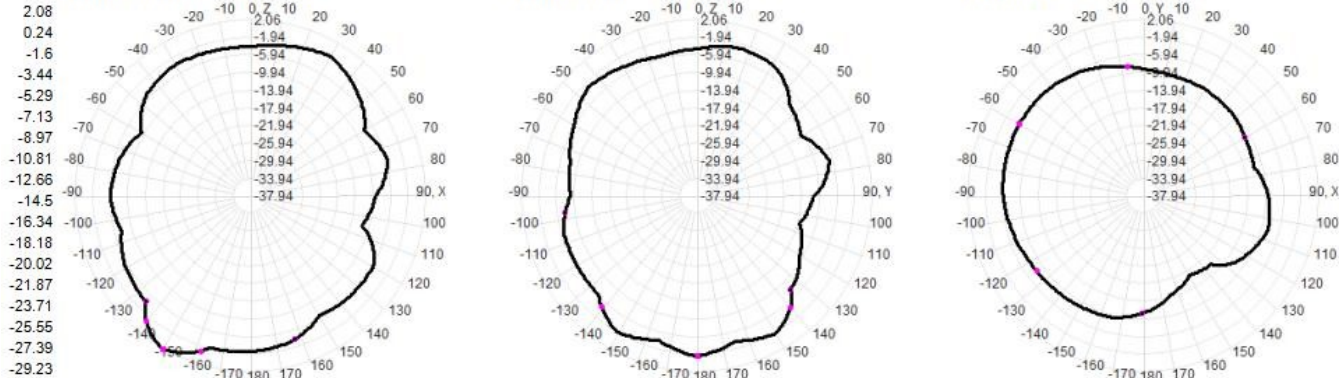
Back View



2480.0MHz Total(E1-XZ), Max= 2.06dBi

2480.0MHz Total(E2-YZ), Max= -1.73dBi

Total(H-XY), Max= -5.33dBi, CirD=11.87



5.Attached picture:

- 5.1: Picture of the finished antenna



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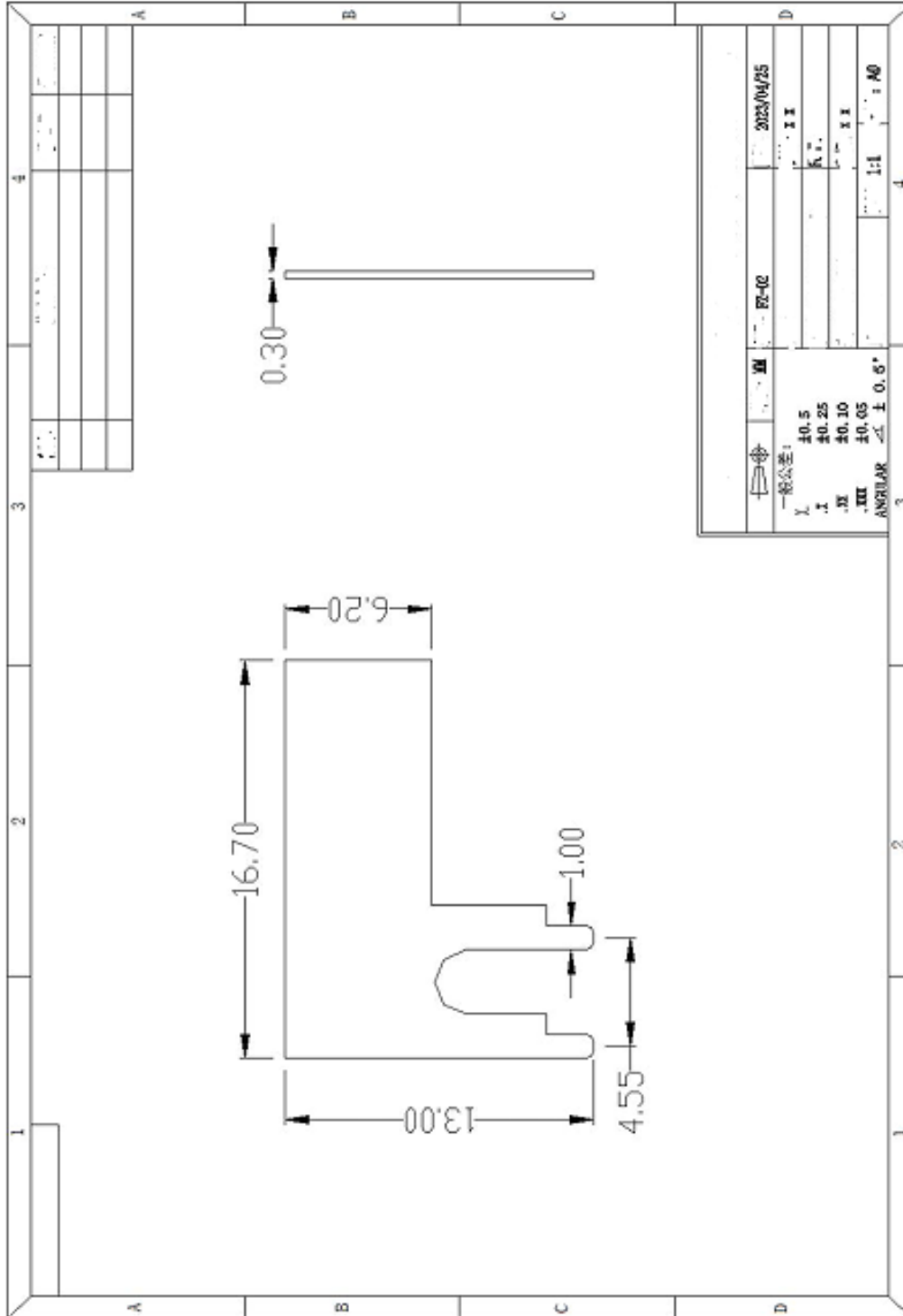
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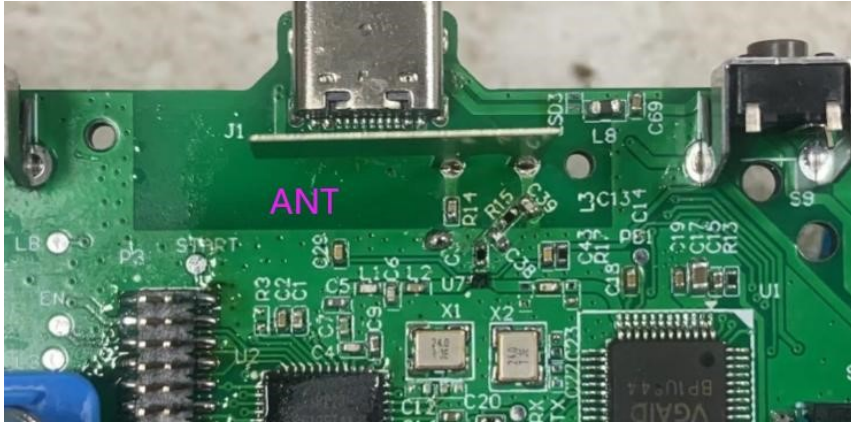
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6Notes:

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After opening, please carefully check whether the item is complete. If there is any damage, please contact us immediately.