



Shenzhen xingtong wireless technology co.,
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Address: 3/F, Building A1, Qiangrongdong Industrial Zone,
Jiuwei, Xixiang, Baoan District, Shenzhen

Product specification

Product number: A30

Product name: A30-BT/TX-ANT

Product item number:

Producer	Audit	Date
Huangjiajun	Wu Yanlong	2024-08-14

Customer confirmation:

Customer name: Shenzhen Zhixin Micro Nano Technology Co., Ltd
Approval :
Date :
Notes :

Please accept your signature and seal and return one copy to our company for filing. Thank you for your cooperation!

 Shenzhen Xingtong Wieress Technology Co., Ltd		Date	2023-4-25
		Version	A0
		File number	XT-YF-004
Product model	A30-TX-ANT	Product number	A30-BT-2.4GHZ

1.Product Constrution

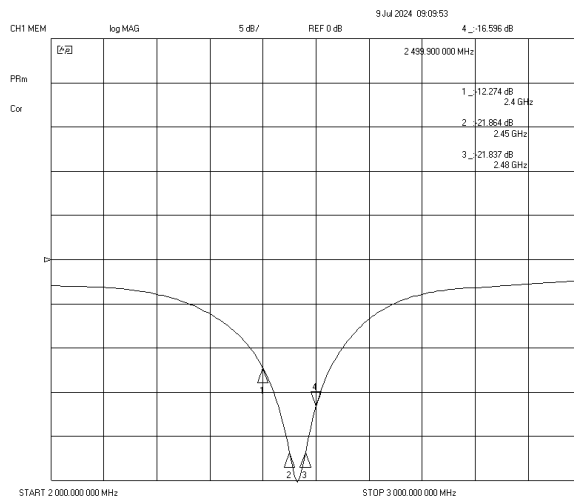
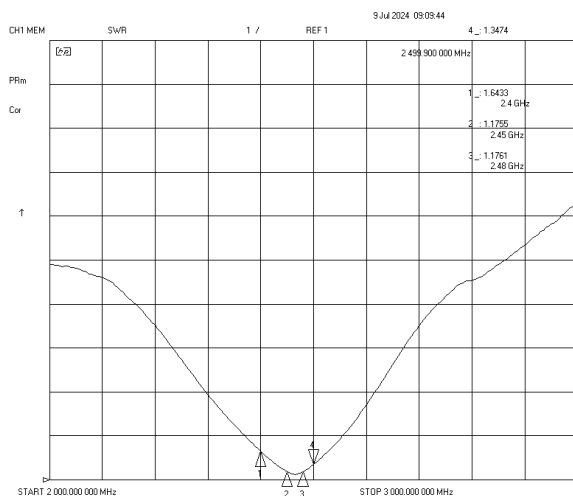
- 1. Antenna material: LDS
- 2. Adhesive tpye: Not have
- 3. Antenna size: Refer to the engineering page
- 4. Appearance treatment: surface oxidation resistance treatment

2.parameters

- Scope of use: customer-supplied machines
- Antenna frequencv: 2.4-2.48Ghz
- Antenna free space gain: 2.4≥0.6dbi
- Installation mode: Mainboard pin contact
- Packing method: use PE bag+packing box

3.S11 value of antenna

- 3.1: Antenna standing wave ratio/Antenna return loss value



- 3.2: Antenna parameters

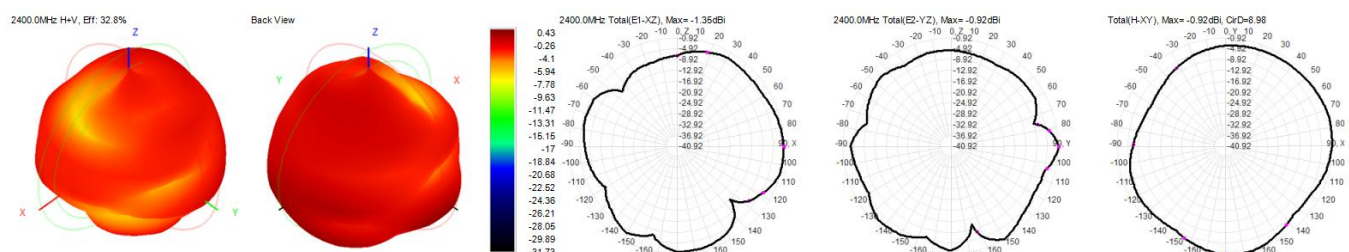
Frequencypoint	2400mhz	2450mhz	2480mhz
SWR(dbm)	1.64	1.17	1.17
LOG (dbm)	-12.27	-21.86	-21.83

4. Antenna performance (OTA)

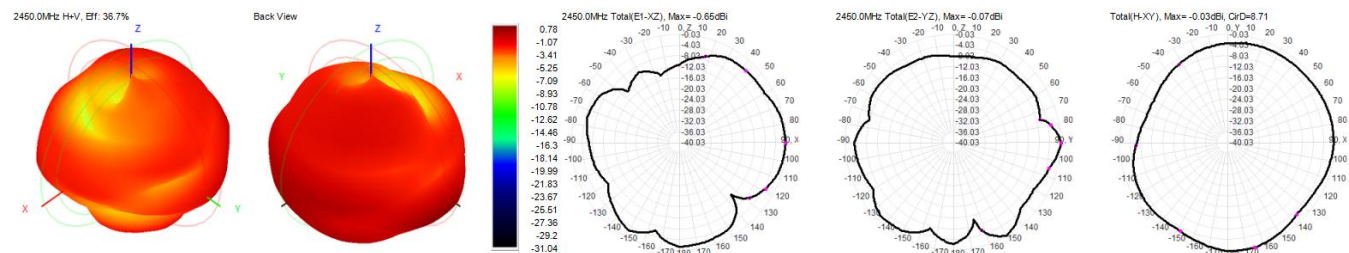
- 4. 1: Antenna matching recommendations
Vector impedance modulation can be performed.
- 4. 2: Antenna OTA/ efficiency/gain (test instruments: network analyzer, oscilloscope, customer engineering prototype, various standard cards, etc.)

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
Efficiency (dBi)	-4.84	-4.75	-4.49	-4.47	-4.67	-4.35	-4.40	-4.58	-4.22	-4.41	-4.53
Gain (dBi)	0.42	0.55	0.65	0.60	0.68	0.78	0.75	0.77	0.56	0.43	0.47
Efficiency (%)	32.79	33.48	35.60	35.76	34.11	36.70	36.33	34.82	37.84	36.20	35.21
Directivity (dB)	4.43	4.50	4.50	4.57	4.59	4.63	4.64	4.65	4.78	4.84	5.00
Peak Gain Position (Theta)	105.00	105.00	105.00	105.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00
Peak Gain Position (Phi)	135.00	135.00	135.00	135.00	300.00	300.00	300.00	285.00	285.00	300.00	300.00
Efficiency ThetaPol (%)	19.59	20.06	21.45	21.68	20.58	21.92	21.60	20.89	22.71	21.56	20.92
Efficiency PhiPol (%)	13.20	13.43	14.15	14.08	13.53	14.78	14.72	13.93	15.13	14.64	14.29
Upper Hem. Efficiency (%)	15.40	15.67	16.57	16.52	15.55	16.54	16.33	15.66	16.94	16.04	15.43
Lower Hem. Efficiency (%)	17.39	17.81	19.02	19.24	18.56	20.16	20.00	19.16	20.91	20.16	19.78

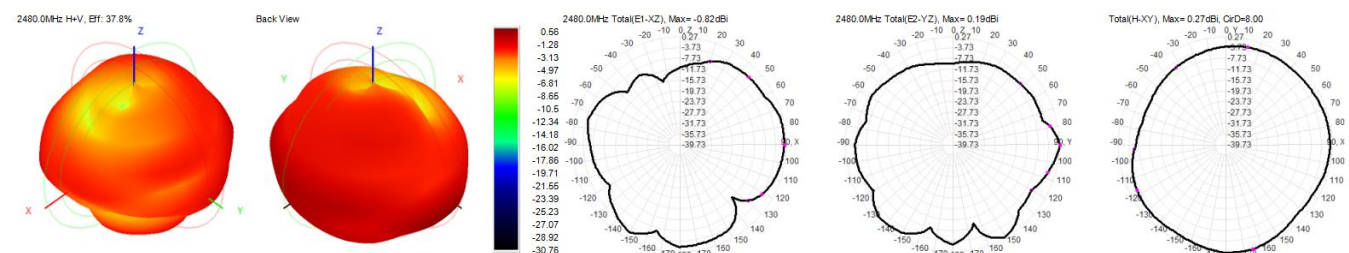
- 4. 3: Antenna OTA-2.4G-3D
2.4GHz: Maximum gain 0.42dBi



2.45GHz: Maximum gain 0.78dBi



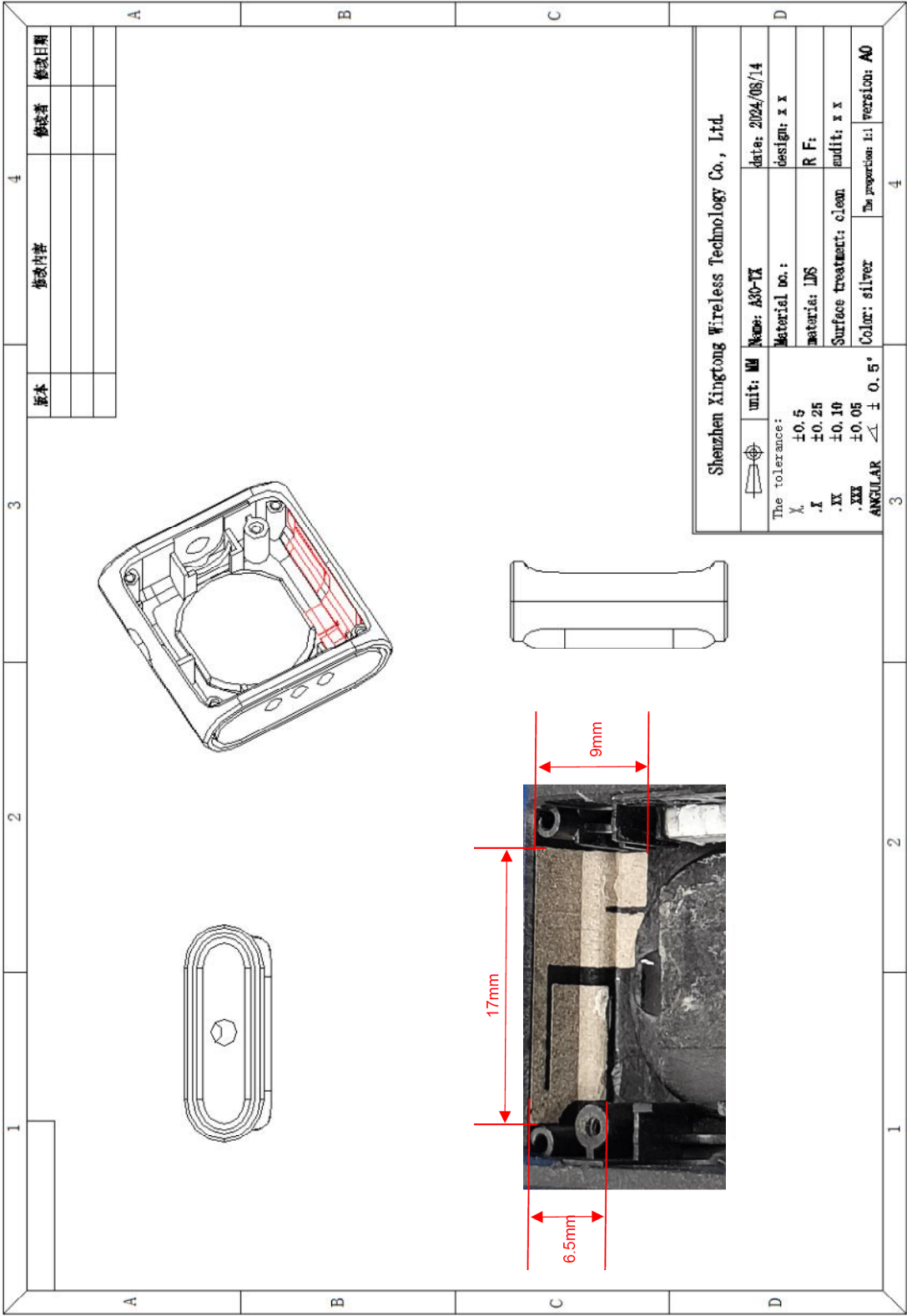
2.48GHz: Maximum gain 0.56dBi



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5. Figure:

5. 1: Finished antenna drawing



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6 Matters needing attention



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