Shenzhen xingtong wireless technology co.,
Telephone：+86-755-27850514 Fax：+86-0755-27850514
Address: 3/F, Building A1, Qiangrongdong Industrial Zone,
Jiuwei, Xixiang, Baoan District, Shenzhen

Product specification

Product number: B5-WIFI-2.4/5GHZ

Product name: B5-FPC-WIFI-ANT

Product item number:ANT-B5WIFIANT0-XT002

Producer	Audit	Date
Huangjiajun	Wu Yanlong	2023-10-23

Customer confirmation:

Customer name: Shenzhen Xinruizhi Industrial 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!

1.Product Constrution:

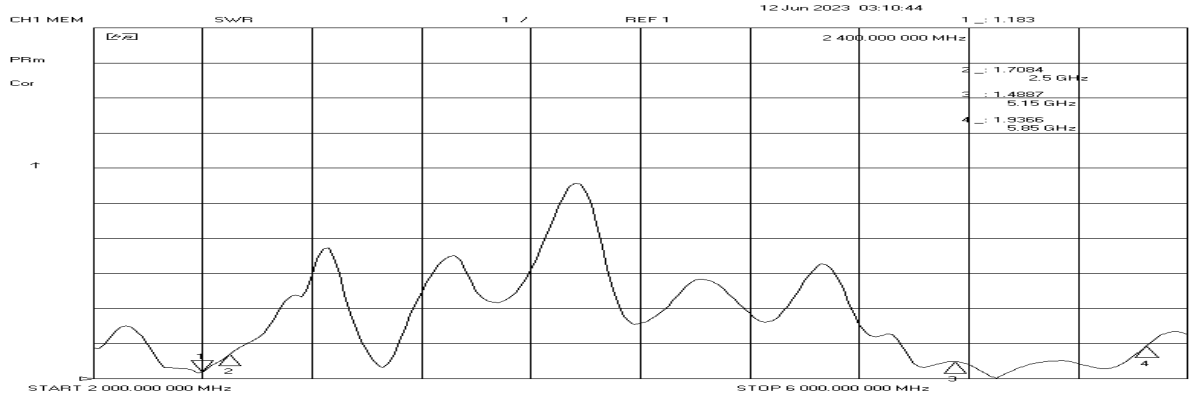
- 1. Antenna material：FPC
- 2. Adhesive type：3M300
- 3. Antenna size：38.3*21.2（Tolerance+0.2）
- 4. Coaxial line size：207 * 0.81 single head third-generation IPEX terminal (tolerance ± 1.0mm)

2. parameters

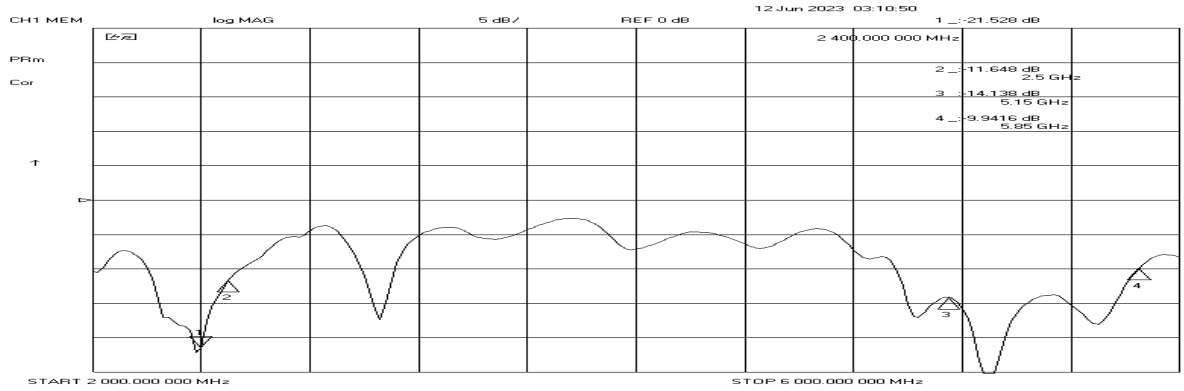
- Scope of use: customer-supplied machines
- Antenna frequency: 2412-2484Mhz 5150-5850Mhz
- Polarization method: horizontal/vertical
- Antenna free space gain: 2.4G≥1.5dbi 5G≥2.2dbi
- Installation mode: terminal wire is welded to motherboard OUT
- Packing method: use PE bag+packing box

3.S11 value of antenna (S11)

- 3.1：antenna standing wave ratio



- 3.2：Antenna return loss value



4.Antenna performance (OTA)

■ 4.1：Antenna matching recommendations

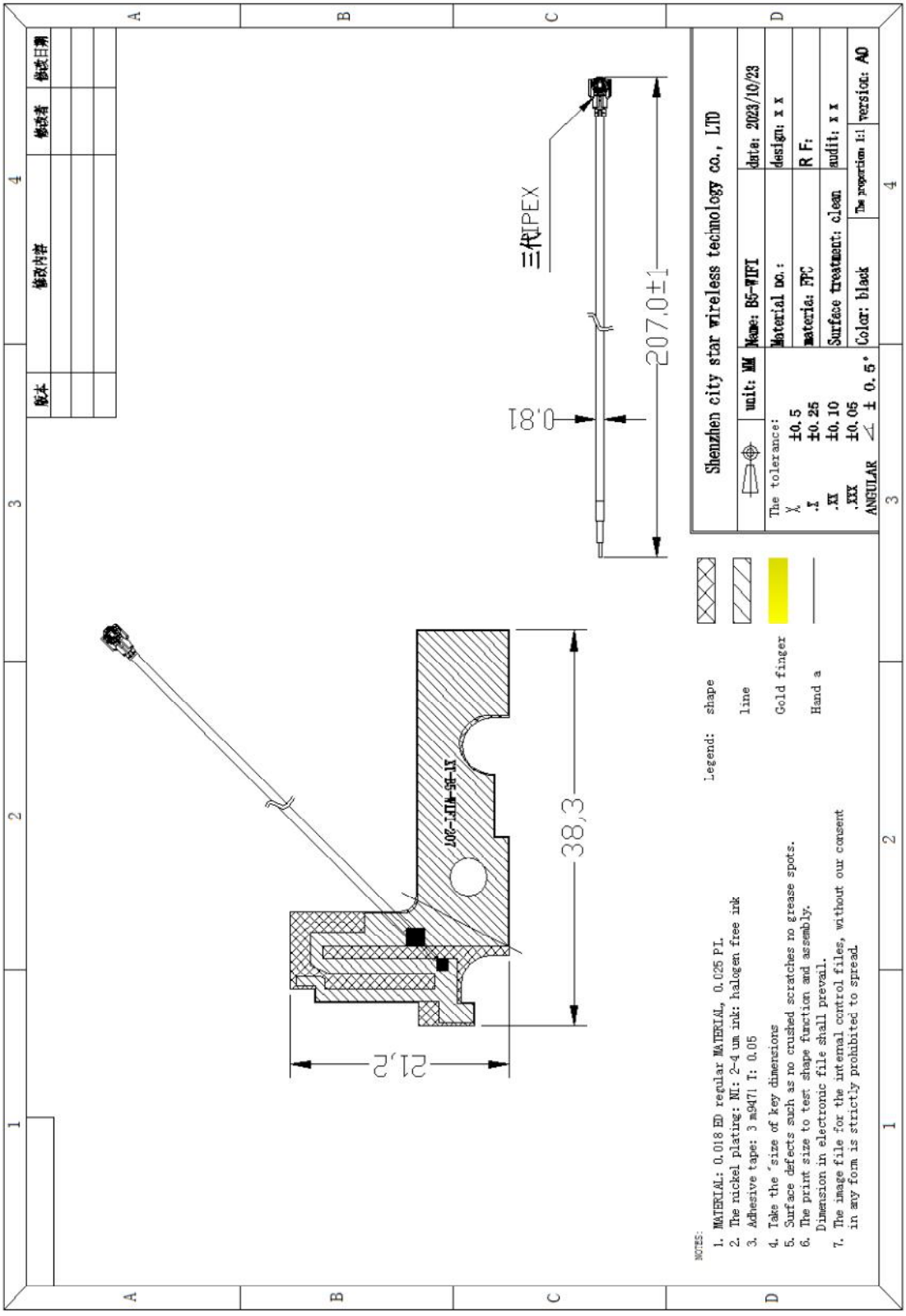
Matching without modification

■ 4.2：Antenna OTA/ efficiency/gain (test instruments: network analyzer, oscilloscope, customer engineering prototype, various standard cards, etc.)

Cell	Band	Channel	TRP (Dbm)	Cell	Band	Channel	TIS (dbm)	Gain (dbi)
WIFI/2.4G	802.11b (11M)	1	11.19	WIFI/2.4G	802.11b (11M)	1	-79.07	1.52
		6	10.91			6	-79.57	1.53
		11	9.78			11	-80.76	1.54
WIFI/5G	802.11a(54M)	36	8.84	WIFI/5G	802.11a(54M)	36	-73.41	2.54
		149	8.99			149	-71.09	2.35
		165	9.03			165	-72.25	2.27

5. Attached figure:

■ 5.1：Finished antenna drawing



6. Maintenance verification:

Tests/test items	Maintainability	Inspection order number
Product name/specification	2.4/5.8G bluetooth /WIFI built-in fpc antenna	Test quantity: 5PCS
Date of inspection: 2023/10/23		Completiondate: 2023/10/23

Test/inspection equipment:

1. The tensile tester tests 5 times. (The tester is shown in the figure)

Note: Uniform speed test is required, not extreme speed test.

Projects / Condition	Maintaining force between terminal and cable ≥ 0.6kgf.				
Test times	1	2	3	4	5
test result	0.6	0.7	0.7	0.9	0.7

Test/inspection result: acceptable

Test/inspection judgment: ■Qualified □Unqualified □Make no judgment

Test: Zhu Yongjian Audit: Wu Yanlong

7. Reliability test:

Serialnumber	test item	Test requirements	testing tool	test result
1	Resistance to tin melting	288℃, 10S, no delamination, no foaming	Tin furnace	Ok
2	weldability	245℃, 5s, smooth tin surface, solder surface≥95%	Tin furnace	Ok
3	Pulling force	N/A	tautness meter	Ok
4	Reverse pulling force	N/A	tautness meter	Ok
5	Peel strength (covering film)	≥0.35kg/cm	peel strength	Ok
6	Peel strength (copper foil)	≥0.8kg/cm	peel strength	Ok
7	Hot melt adhesive fluidity	0.1～0.15	/	Ok

7. Matters needing attention:

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