



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!



Shenzhen Xingtong Wieress Technology Co., Ltd

Date

2023-10-23

Version

A0

File number

XT-YF-004

Product model

B5-WIFI antenna

Product number

B5-WIFI-APP

1.Product Constrution:

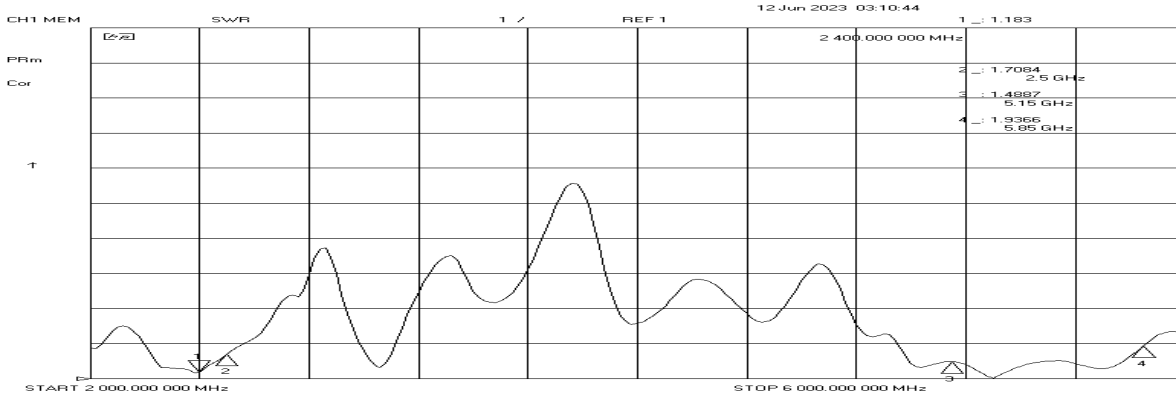
- 1. Antenna material: FPC
- 2. Adhesive tvne: 3M300
- 3. Antenna size: 38.3*21.2 (Tolerance+0.2)
- 4. Coaxial line size: 207 * 0.81 single head third-generation IPEX terminal (tolerance ± 1.0mm)

2. parameters

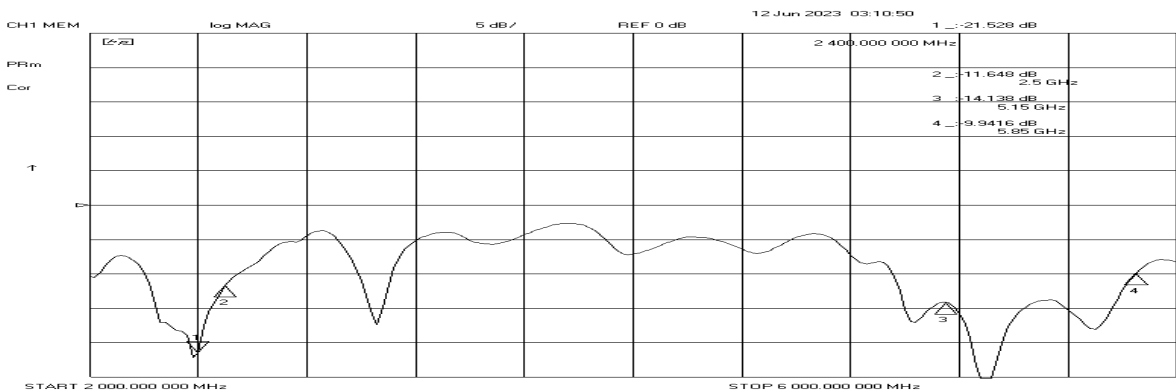
- Scope of use: customer-supplied machines
- Antenna frequency: 2412-2484Mhz 5150-5850Mhz
- Polarization method: horizontal/vertical
- Antenna free space gain: 2.4G≥1.5dbi 5G≥2.2dbi
- Installation mode: terminal wire is welded to motherboard OUT
- Packing method: use PE bag+packing box


3.S11 value of antenna (S11)

■ 3.1: antenna standing wave ratio



■ 3.2: Antenna return loss value



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4. Antenna performance (OTA)

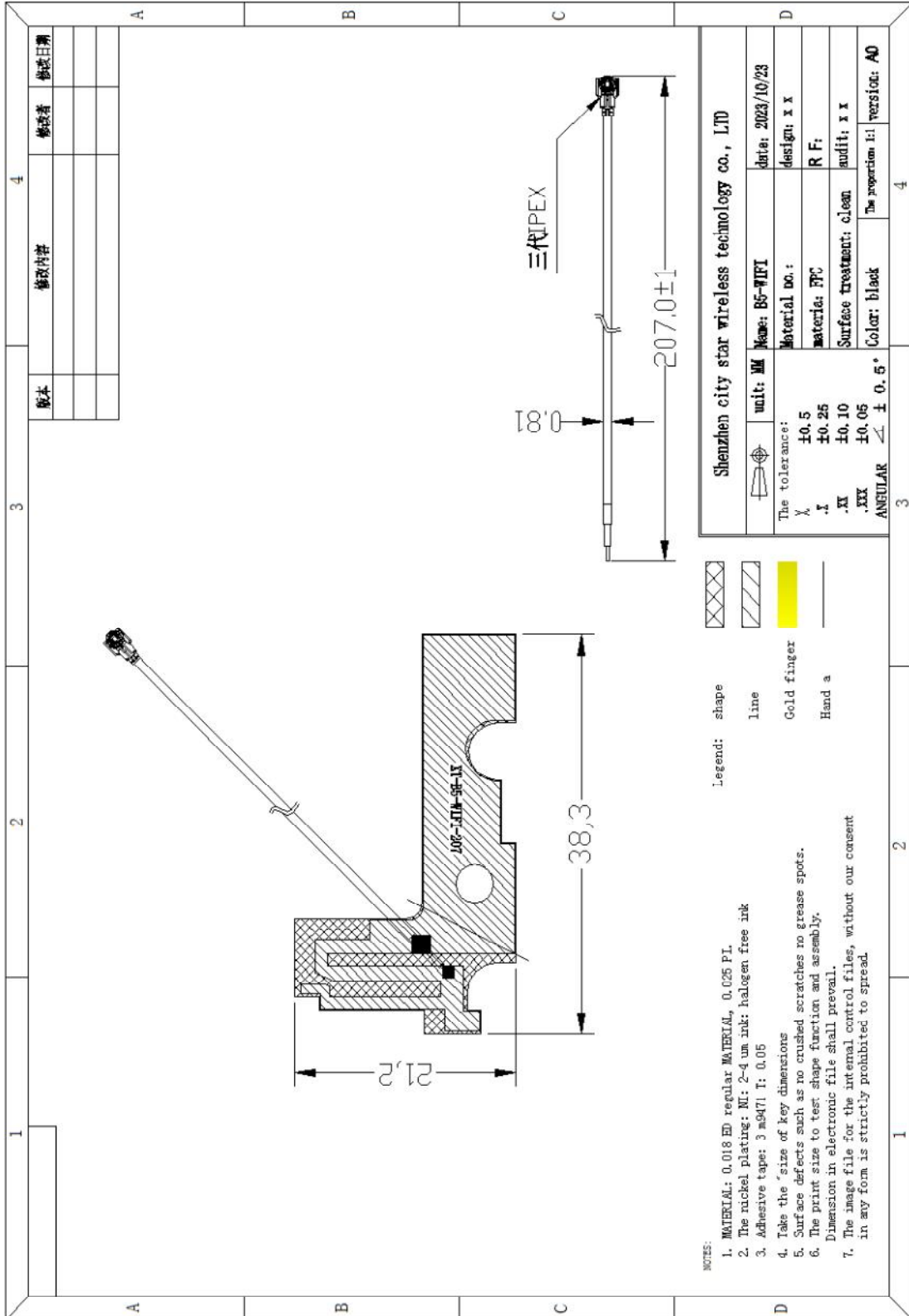
- 4.1: Antenna matching recommendations
Matching without modification

- 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





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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 $\geq 0.6\text{kgf}$.				
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

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7. Reliability test:

Serialnumber	test item	Test requirements	testing tool	test result
1	Resistance to tin melting	288°C, 10S, no delamination, no foaming	Tin furnace	Ok
2	weldability	245°C, 5s, smooth tin surface, solder surface $\geq 95\%$	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)	$\geq 0.35\text{kg/cm}$	peel strength	Ok
6	Peel strength (copper foil)	$\geq 0.8\text{kg/cm}$	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.