

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	Min Dong
Project	V3 模拟版
Project NO	XBY230427

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuanggu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Date : 2025/3/10

Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Catalogue

- 1 Test System and Equipment.....
- 2 Product Description
- 3 Device Description
- 4 Matching Circuits
- 5 Test Tata
- 6 EngineeringDrawing

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

1 Test System and Equipment

	Test items	equipment
1 : S parameter	1. Return loss 2. VSWR	Network analyzer: A338/A333/HP8753D
2 : Active test	1. TRP 2. TIS	1. Shielding room: 7x4x3 m (ETS-3D) 2. Network analyzer: HP 8753D
3 : Passive test	1. efficiency, gain 2. Radiation mode	1. Shielding room: 5x3x3 m (ETS-3D) 2. network analyzer: HP 8753D

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.



2 Product Description

Technical requirements	Technical index	Remarks
Band	WIFI:2.4G BT	
Range Of Frequency	2400-2500Mhz	
VSWR	<2.0	Center Frequency
Impedance	50 Ω	

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Polarization	Linear polarization	
operating temperature	-20℃ / +75℃	
storage temperature	-20℃ / +75℃	
Salt Fog	24h(24h alternating wet & dry)	
RoHS Compliant	yes	
Antenna type	monopole	

3 Device Description

The whole machine photo

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.



Antenna photo



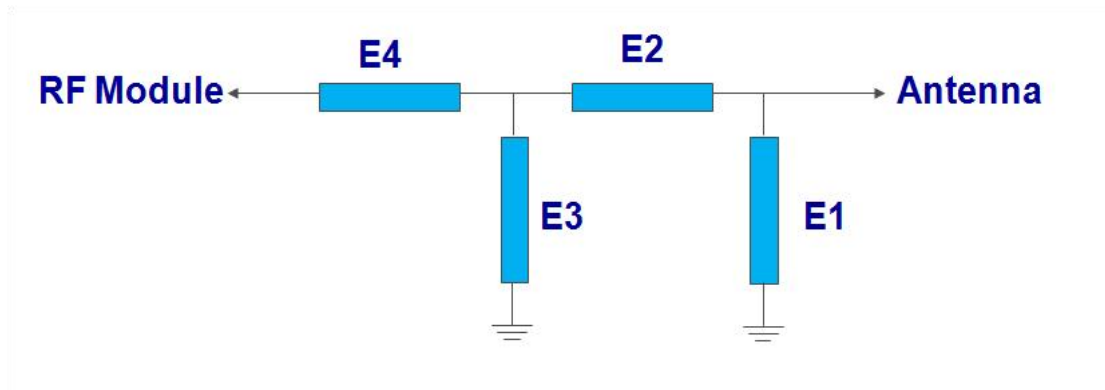
4 Matching Circuits

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.



Element	Value	Vender
E1(0402)	NA	
E2(0402)	0Ω	
E3(0402)	NA	
E4(0402)	0Ω	

Original match unchanged.

5 Test Data

Shenzhen Xiangboyi Technology Co. Ltd

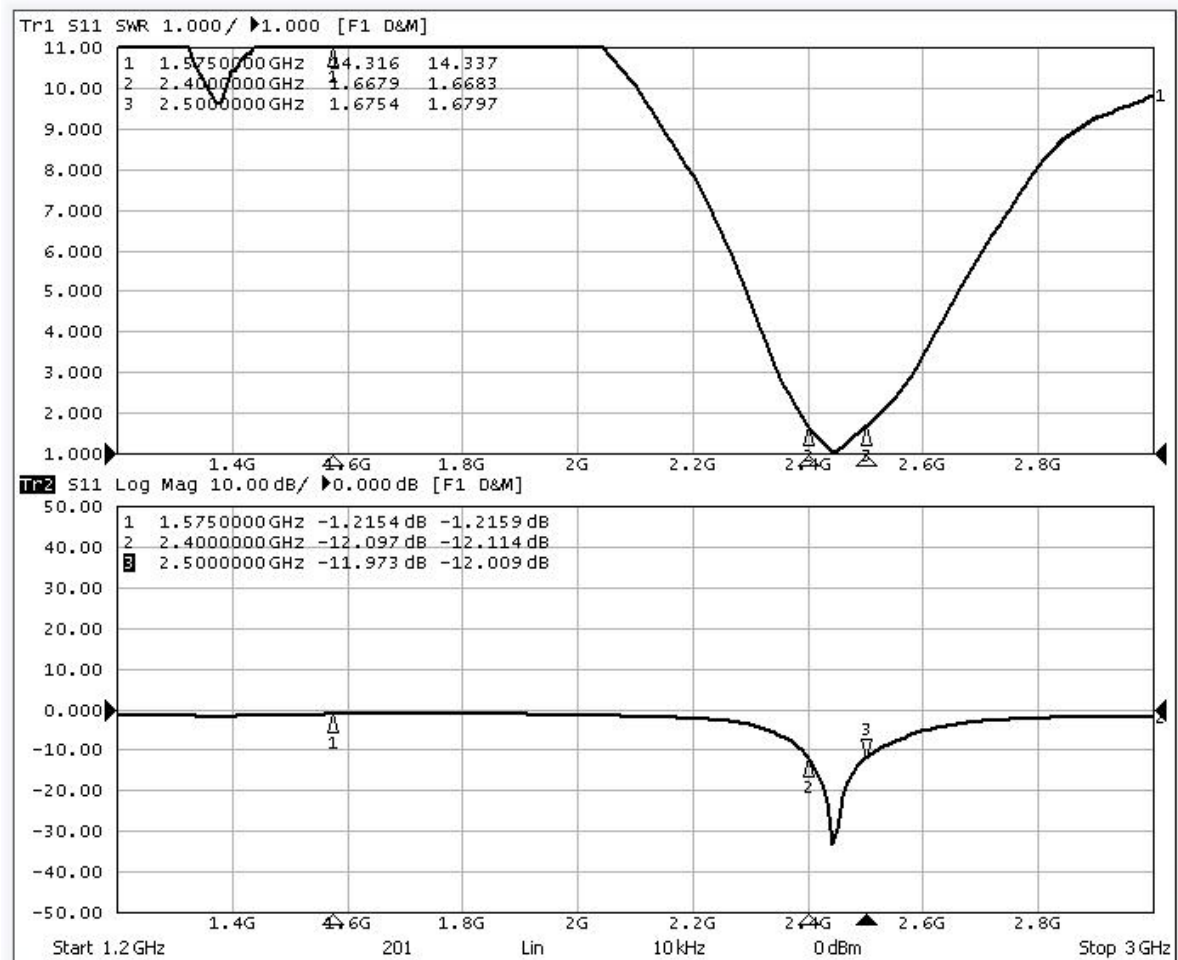
Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	13.87	13.73	13.53	11.81	11.56	11.53
TIS			-82.87			-70.83

WIFI BAND	802.11n : MCS7 (2.4G)			BT		
Channel	CH1	CH6	CH11	CH0	CH39	CH78
TRP	11.03	11.14	10.72	4.67	4.06	3.23
TIS			-70.59			-81.12



Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

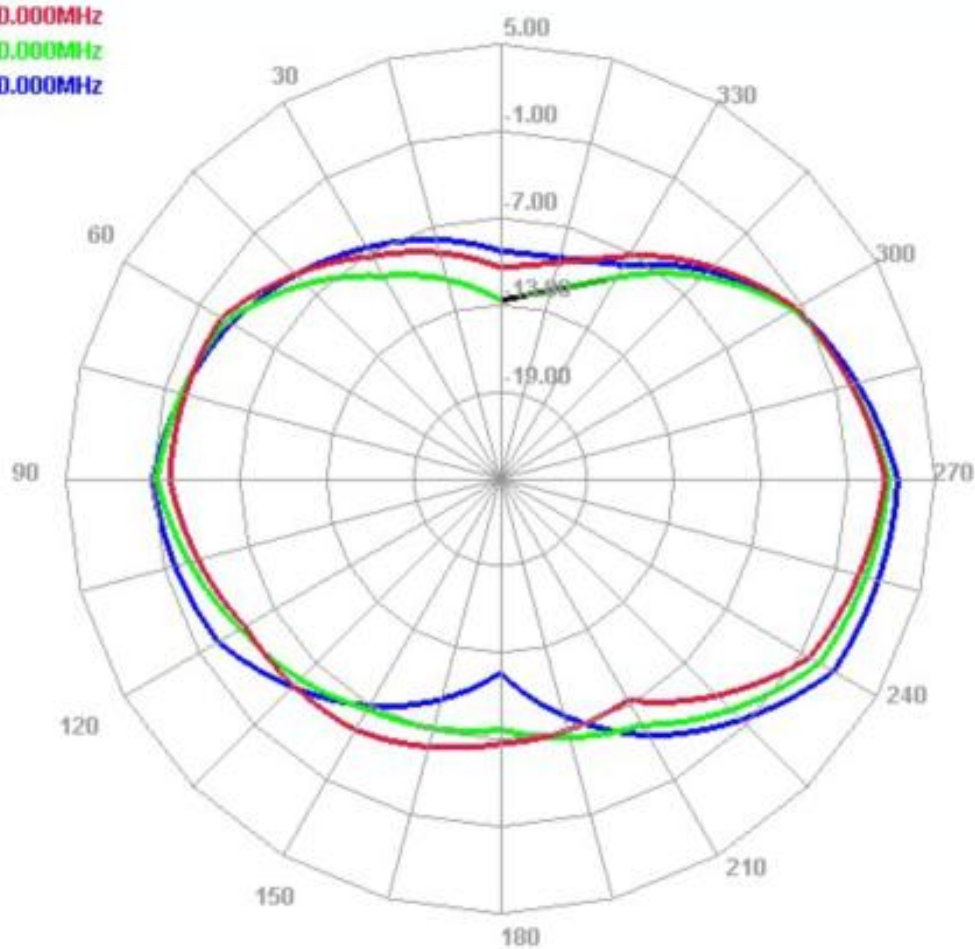
R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.29	2.09
2450	50.66	2.11
2500	52.41	2.44

Horizontal

2400.000MHz
2450.000MHz
2500.000MHz



Shenzhen Xiangboyi Technology Co. Ltd

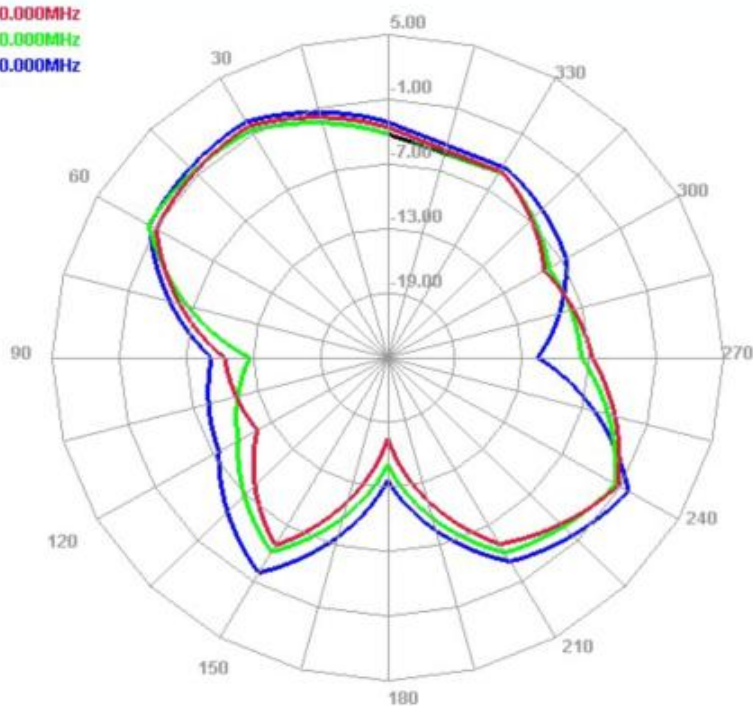
Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

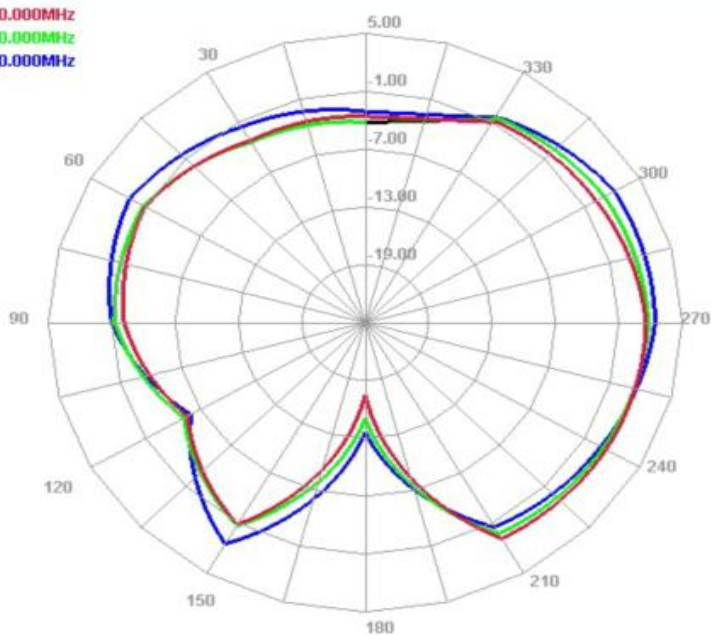
E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



E2 Face

2400.000MHz
2450.000MHz
2500.000MHz



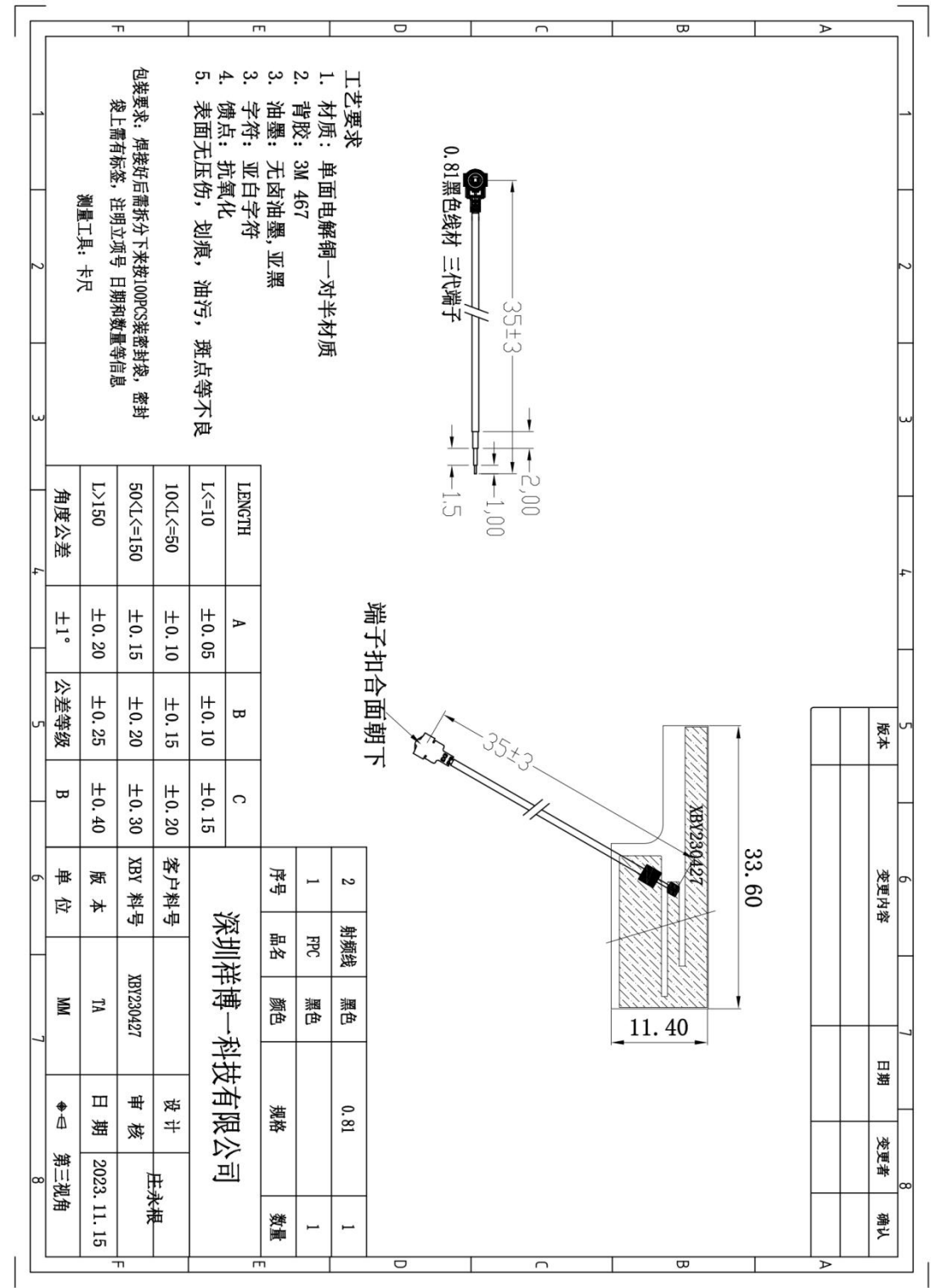
Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

6 Engineering Drawing



Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

七 . Physical assembly diagram



Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.