

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 chuangu, 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

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Catalogue

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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

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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	

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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

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Antenna photo



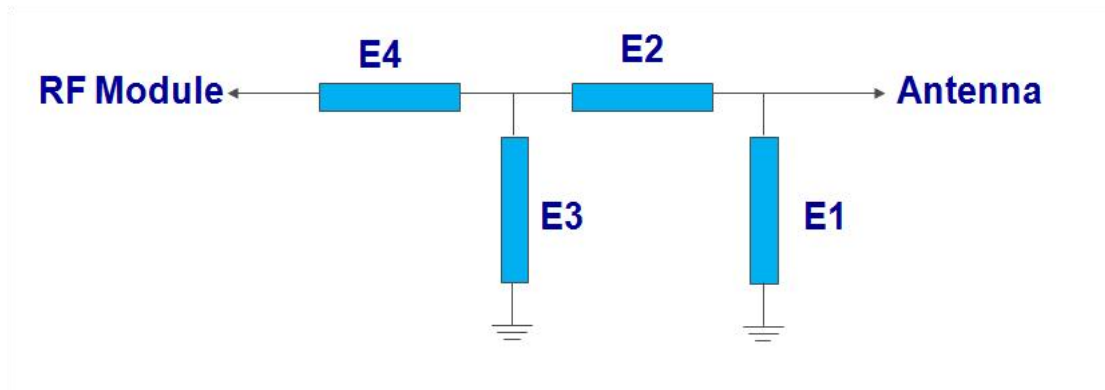
4 Matching Circuits

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

Original match unchanged.

5 Test Data

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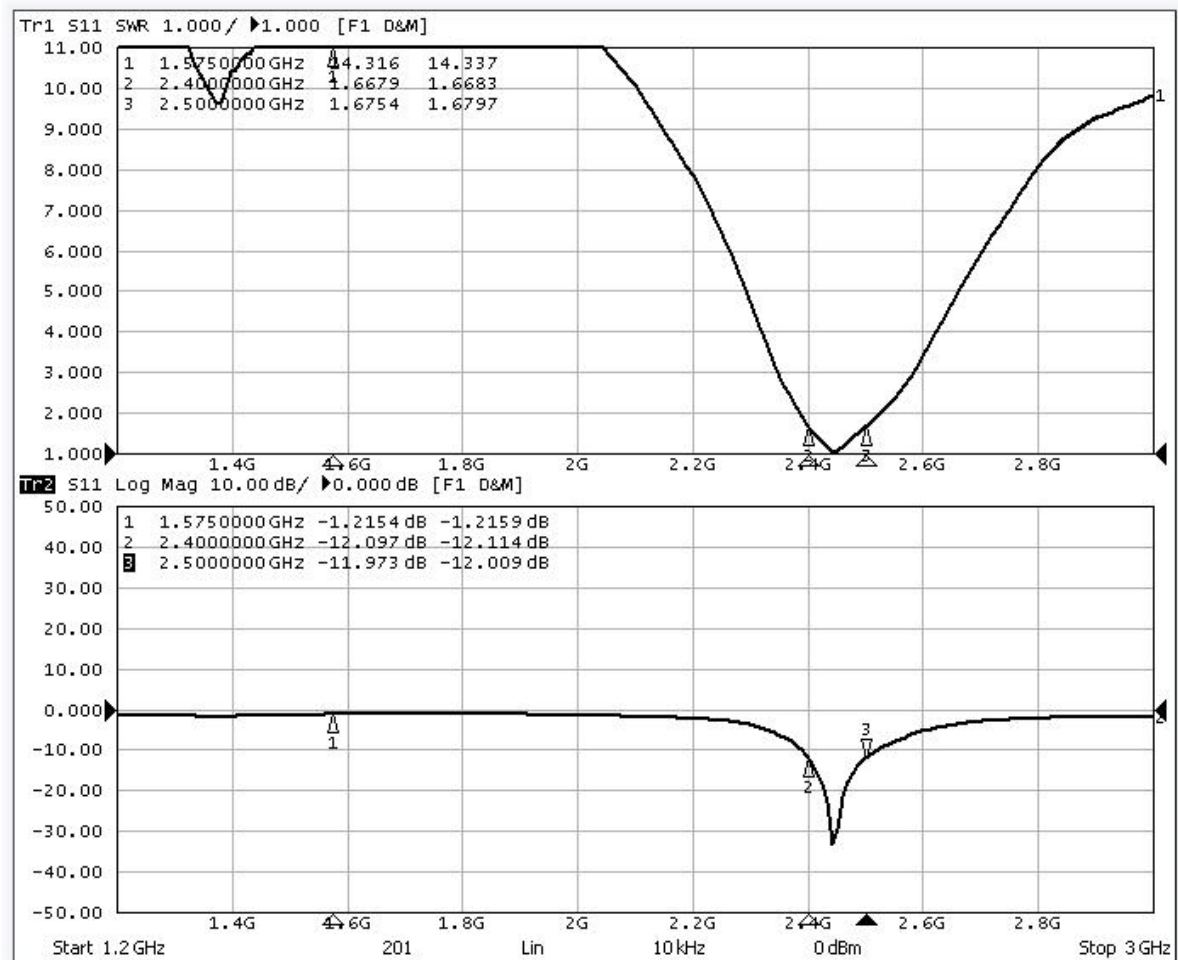
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WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	13.87	13.73	13.53	11.81	11.56	11.53
TIS			-82.87			-70.83

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



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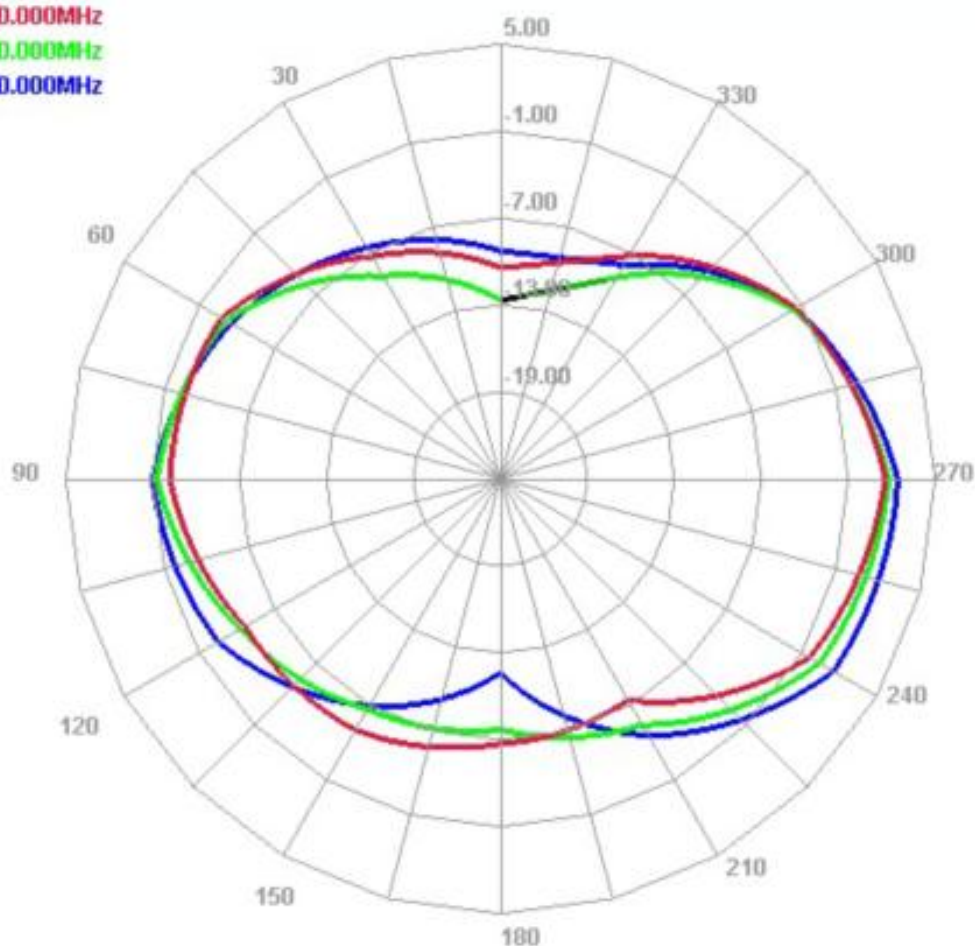
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Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.29	2.09
2450	50.66	2.11
2500	52.41	2.44

Horizontal

2400.000MHz
2450.000MHz
2500.000MHz



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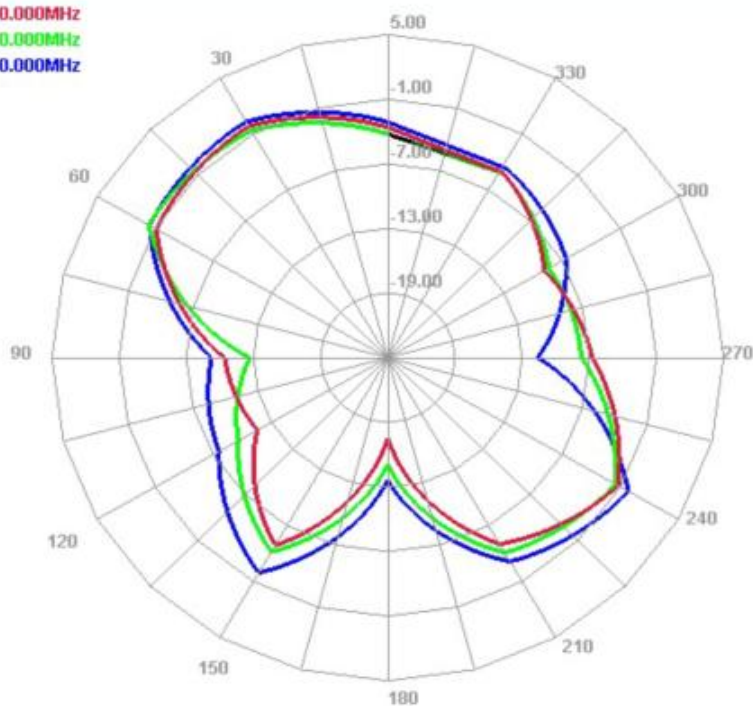
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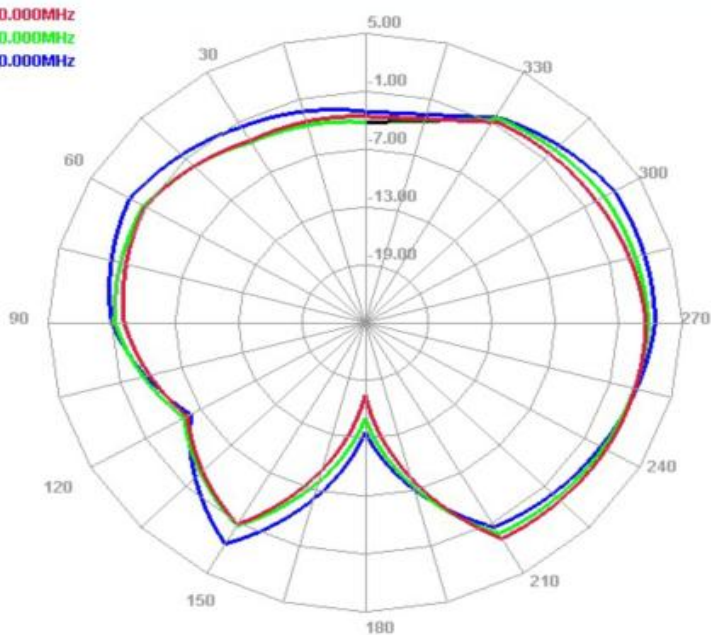
E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



E2 Face

2400.000MHz
2450.000MHz
2500.000MHz



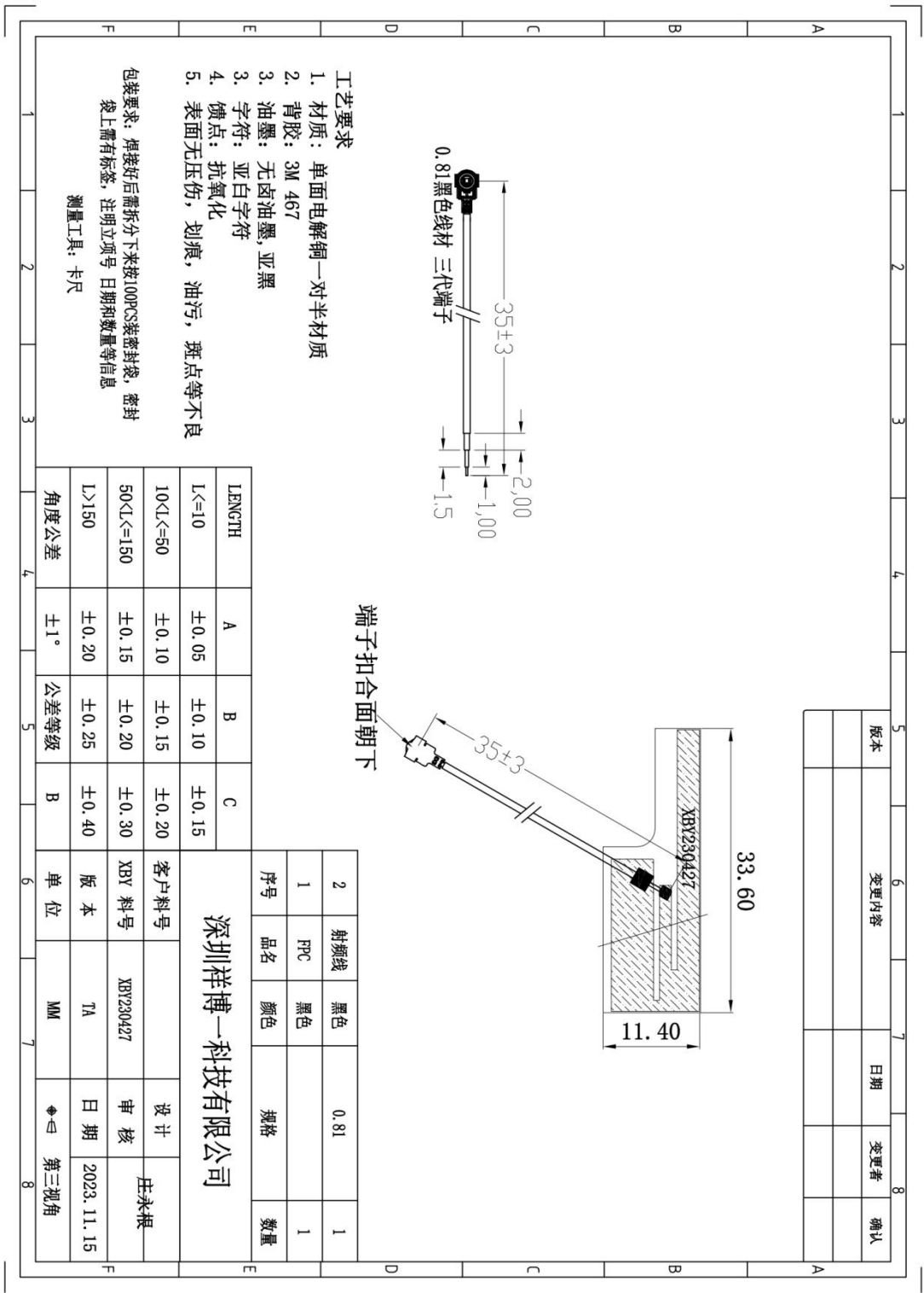
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6 Engineering Drawing



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七 . Physical assembly diagram



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