

# Shenzhen Xiangboyi Technology Co. Ltd

## Antenna Specification

<b>Customer</b>	Min Dong
<b>Project</b>	V3 模拟版
<b>Project NO</b>	XBY230427

**Shenzhen Xiangboyi Technology Co. Ltd**

Date : 2025/3/10

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**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.

<b>Customer confirmation</b>			
<b>Engineer</b>	<b>PM</b>	<b>Quality</b>	<b>Approval</b>

<b>Supplier confirmation</b>			
<b>ME</b>	<b>RF</b>	<b>Examine</b>	<b>Approval</b>

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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
<b>Band</b>	WIFI:2.4G BT	
<b>Range Of Frequency</b>	2400-2500Mhz	
<b>VSWR</b>	<2.0	Center Frequency
<b>Impedance</b>	50 Ω	

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<b>Polarization</b>	Linear polarization	
<b>operating temperature</b>	-20°C / +75°C	
<b>storage temperature</b>	-20°C / +75°C	
<b>Salt Fog</b>	24h(24h alterning wet & dry)	
<b>RoHS Compliant</b>	yes	
<b>Antenna type</b>	monopole	

### 3 Device Description

The whole machine photo

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Antenna photo



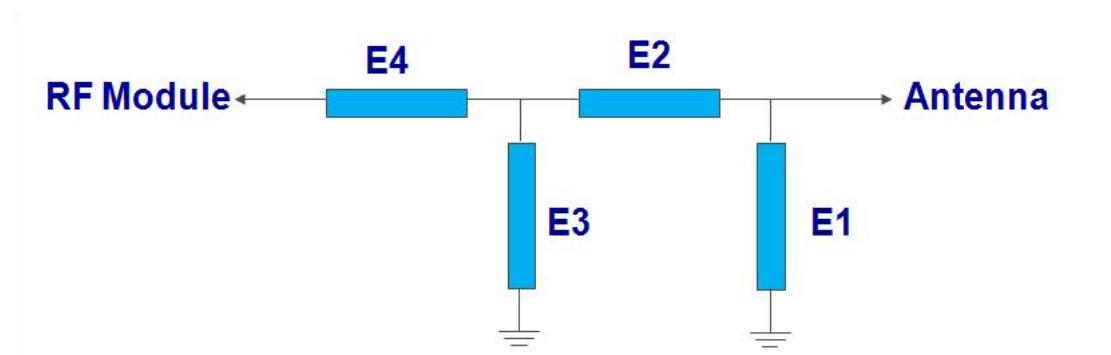
## 4 Matching Circuits

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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

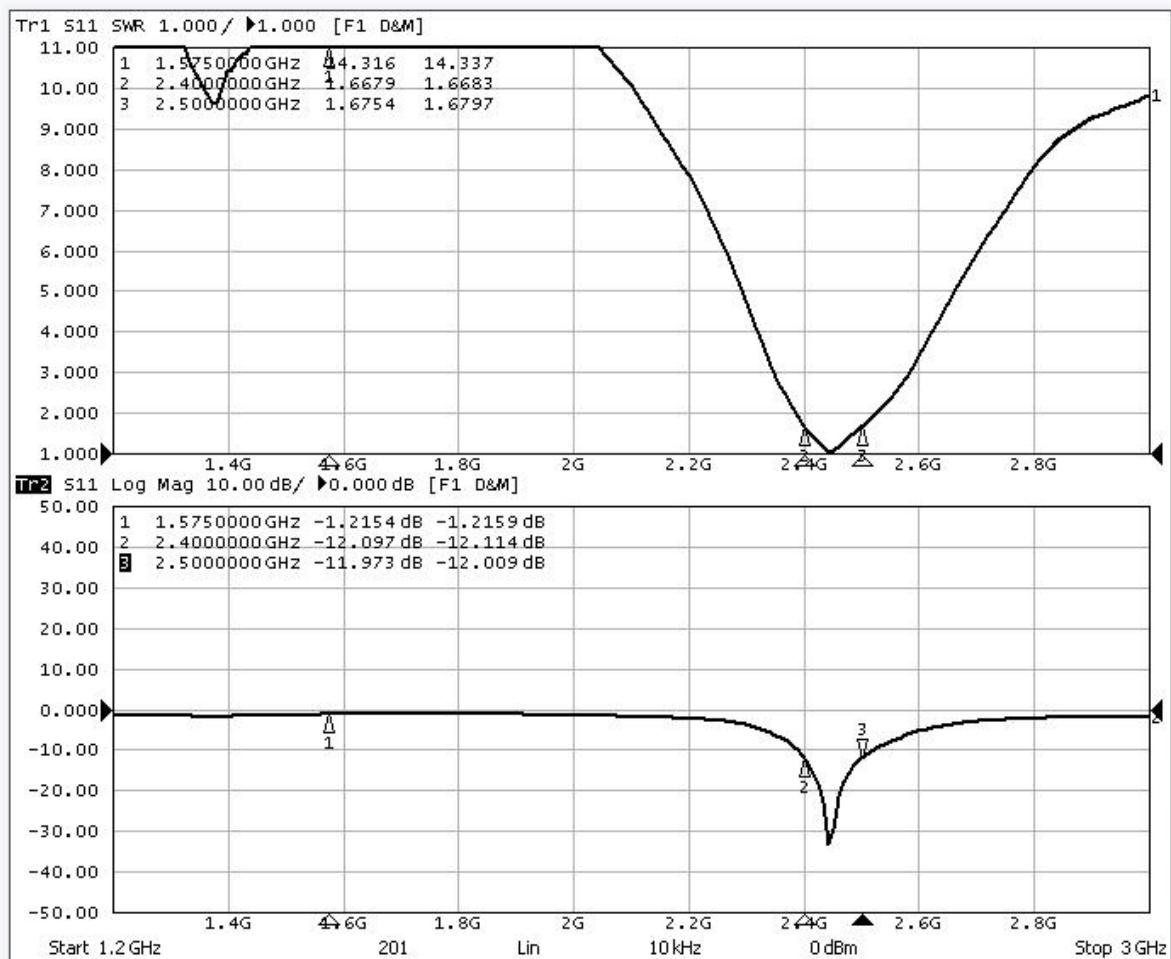
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WIFI BAND	802.11b : 11MBps (2.4G)			802.11g : 54MBps (2.4G)		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	13.87	13.73	13.53	11.81	11.56	11.53
TIS			-82.87			-70.83
WIFI BAND	802.11n : MCS7 (2.4G)			BT		
Channel	CH1	CH6	CH11	CH0	CH39	CH78
TRP	11.03	11.14	10.72	4.67	4.06	3.23
TIS			-70.59			-81.12



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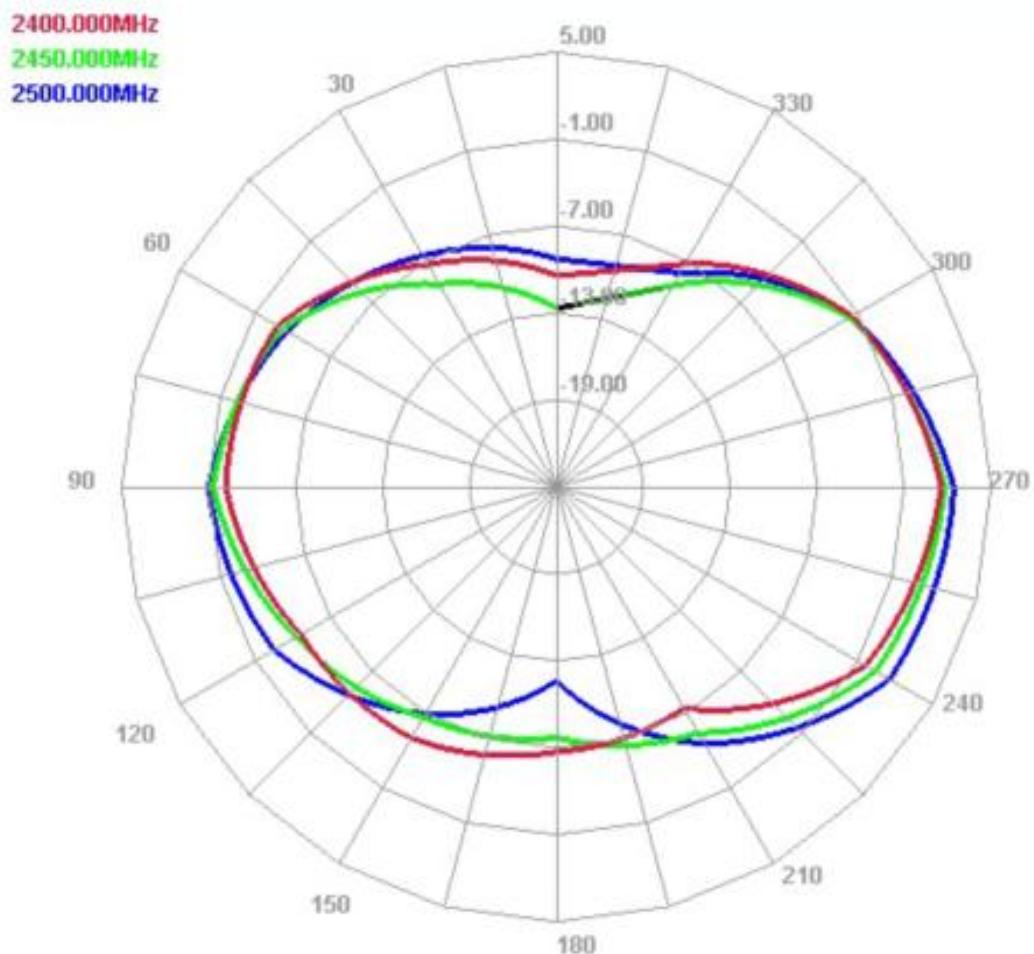
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Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.29	2.09
2450	50.66	2.11
2500	52.41	2.44

### Horizontal



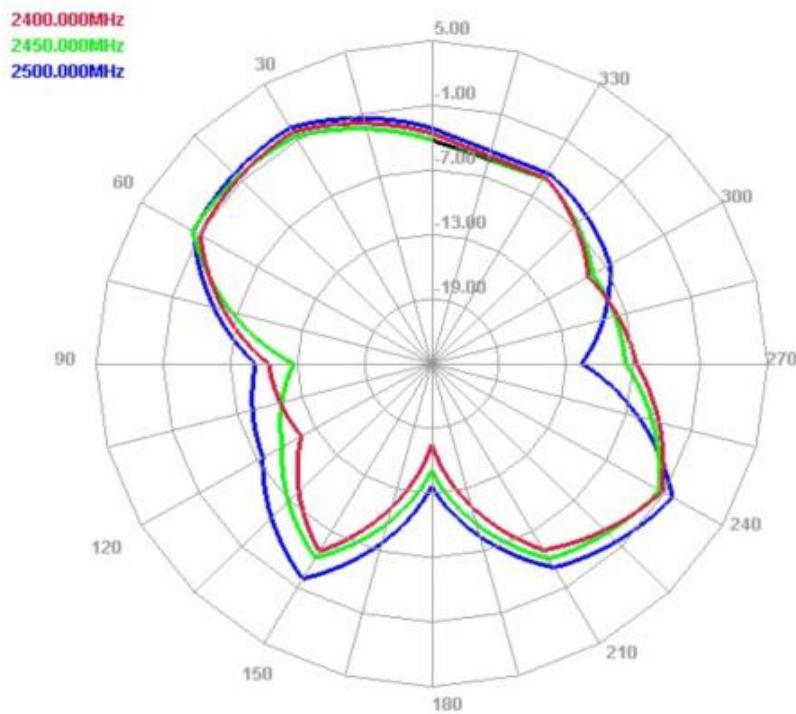
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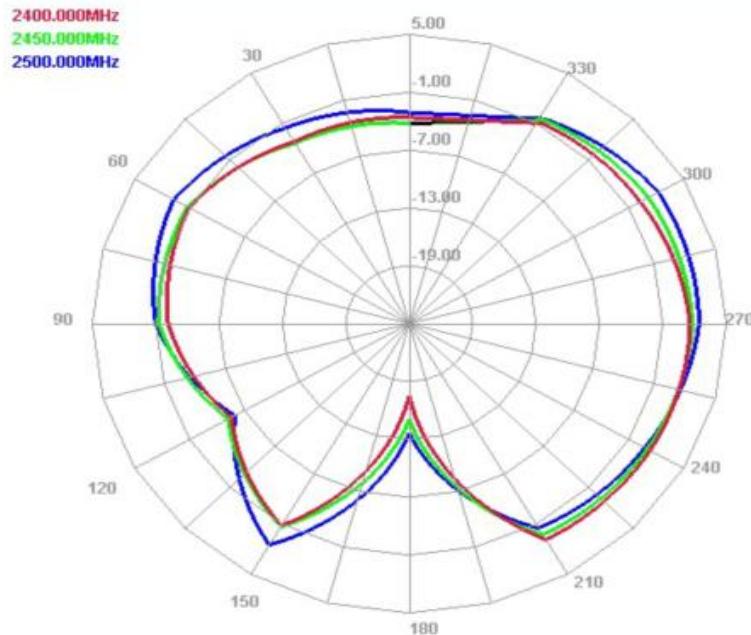
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### E1 Face



### E2 Face



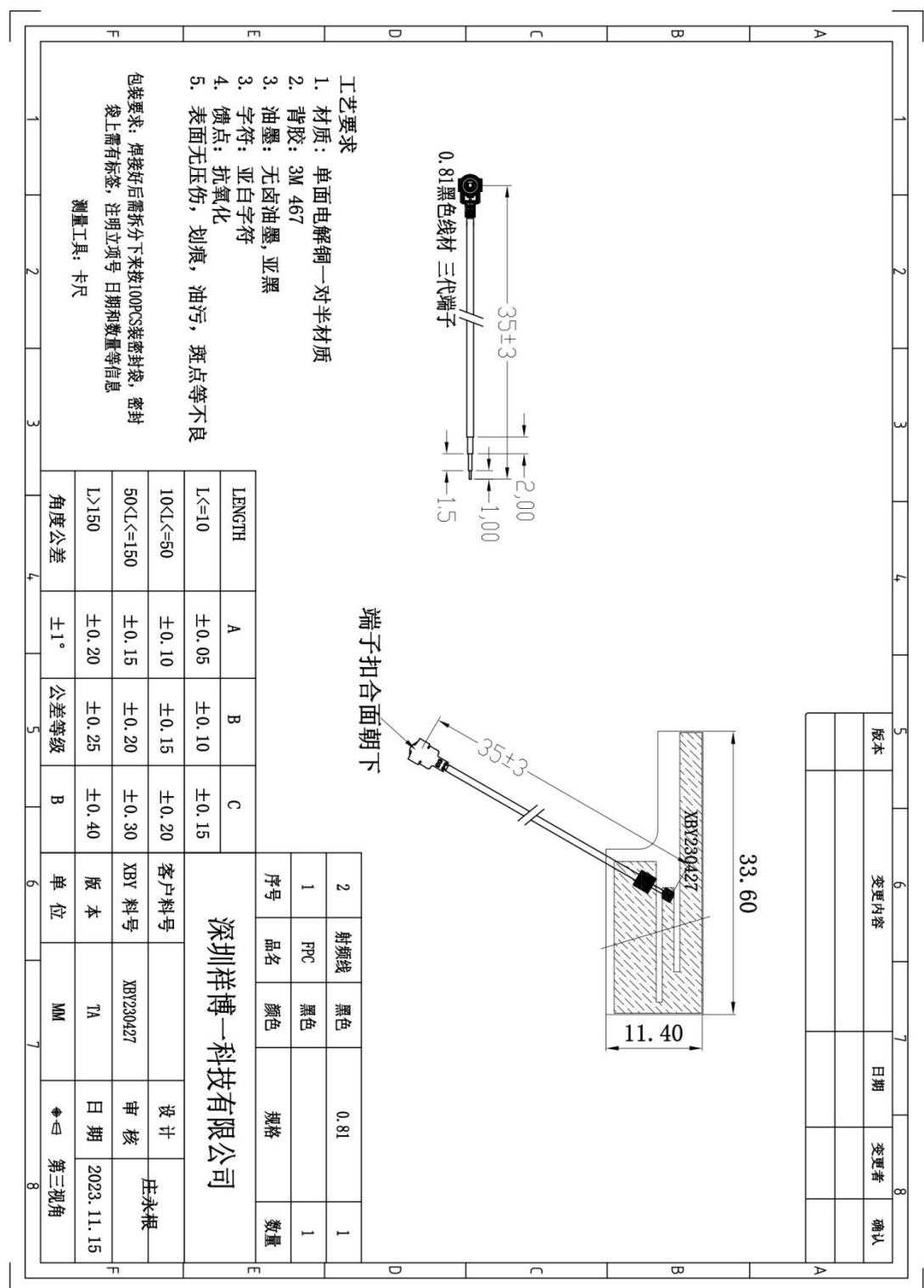
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# 6 Engineering Drawing



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## 七 . Physical assembly diagram



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