

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	Min Dong
Project	R1
Project NO	XBY230342

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: 2024/12/11

Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

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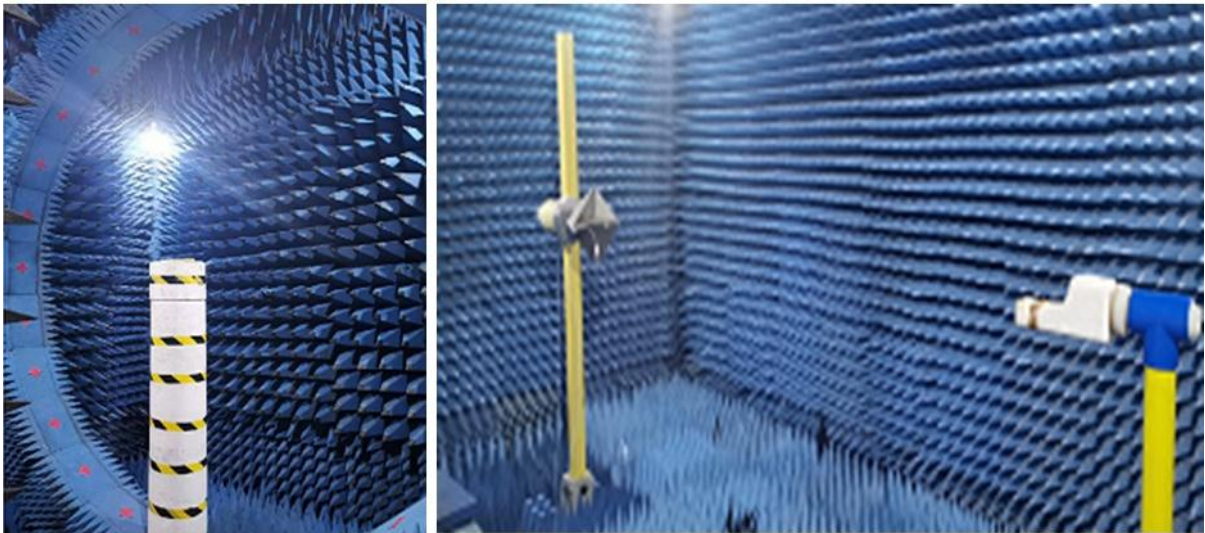
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1 Test System and Equipment

	Test items	equipment
1: S parameter	<ol style="list-style-type: none"> Return loss VSWR 	Network analyzer: A338/A333/HP8753D
2: Active test	<ol style="list-style-type: none"> TRP TIS 	Comprehensive test instrument: Agilent 8960/ CMW500
3: Radiation mode and gain	<ol style="list-style-type: none"> Radiation mode Gain 	<ol style="list-style-type: none"> Shielding room: 7x4x3 m (ETS-3D) 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	
Polarization	Linear polarization	
operating temperature	-32°C / +55°C	
storage temperature	-55°C / +85°C	
Salt Fog	24h(24h alternating wet & dry)	
RoHS Compliant	yes	

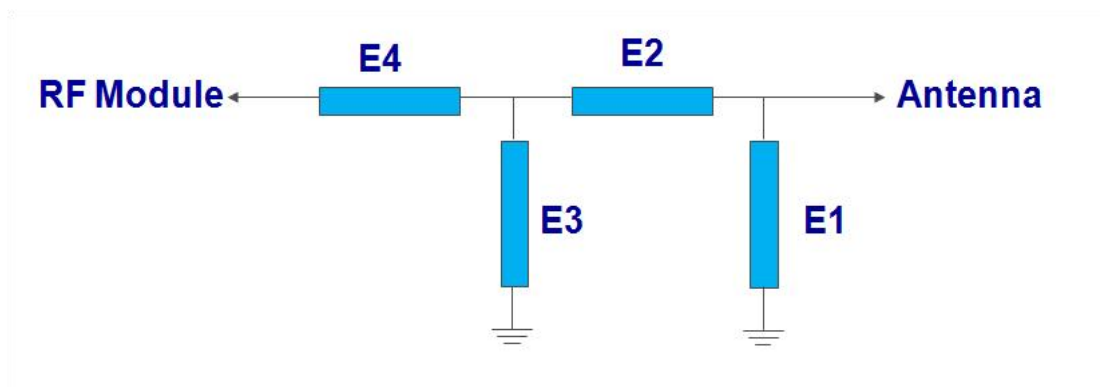
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4 Matching Circuits



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

Original match unchanged.

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5 Test Data

WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH7	CH13	CH1	CH7	CH13
TRP	14.28	14.26	14.7	12.14	11.98	12.44
TIS			-83.77			-72.07

WIFI BAND	802.11n : MCS7 (2.4G)			BT		
Channel	CH1	CH7	CH13	CH0	CH39	CH78
TRP	10.85	11.03	11.03	3.97	5.15	5.44
TIS			-72.78			-82.17

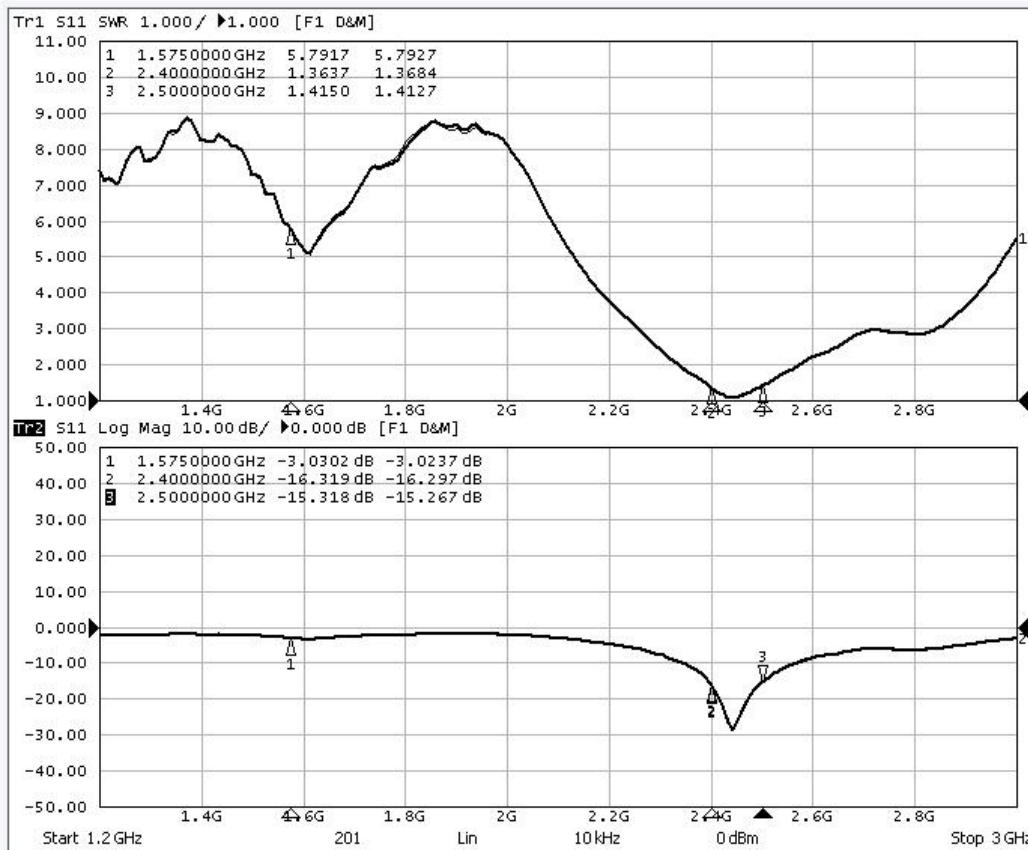
Freq (MHz)	Effi (%)	Gain (dBi)
2400	37.29	-0.74
2410	29.09	-1.58
2420	34.25	-0.4
2430	28.66	-0.92
2440	36.4	0.65
2450	33.71	0.42
2460	35.11	0.71
2470	31.27	0.08
2480	37.56	1.03
2490	32.64	0.1
2500	35.56	0.19

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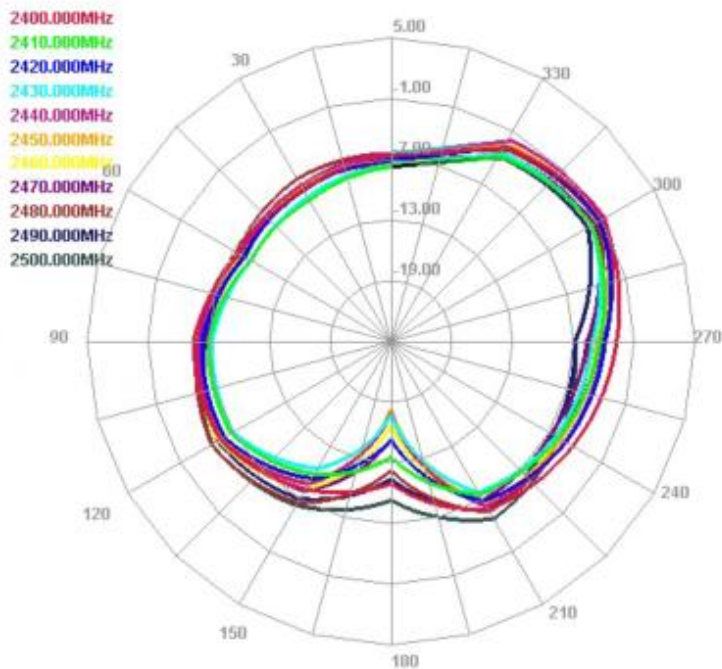
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Horizontal



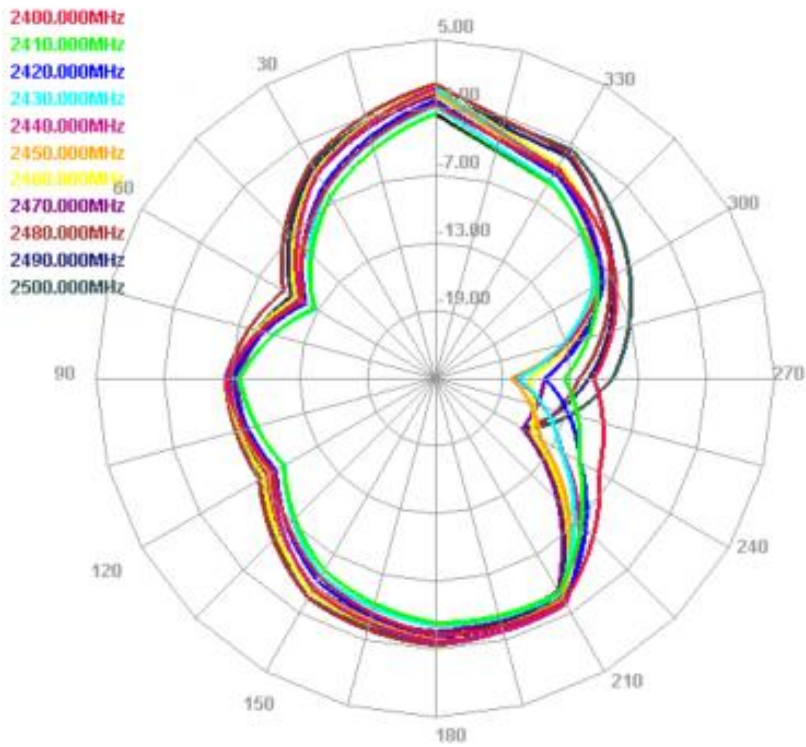
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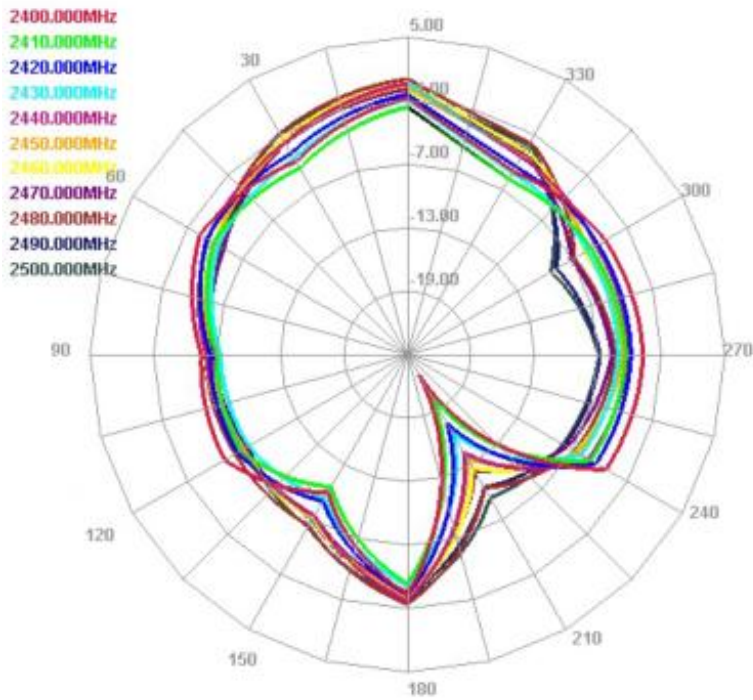
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E1 Face



E2 Face



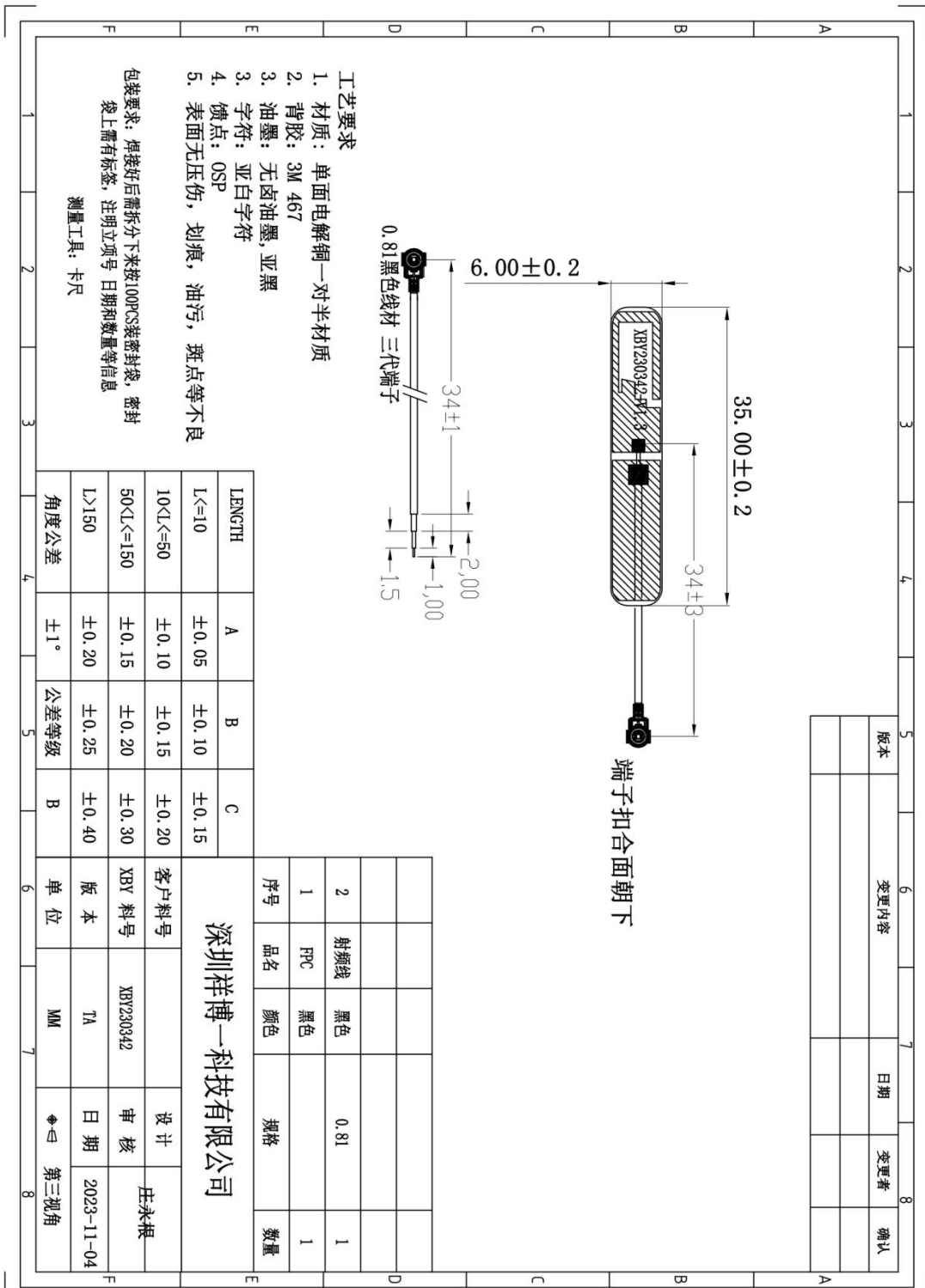
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6 Engineering Drawing



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