

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	Li bang yi liao
Project	CX12/CX15
Project NO	XBY230440-E-V3. 0

Shenzhen Xiangboyi Technology Co. Ltd

Date : 2026/1/28

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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 chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.



Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

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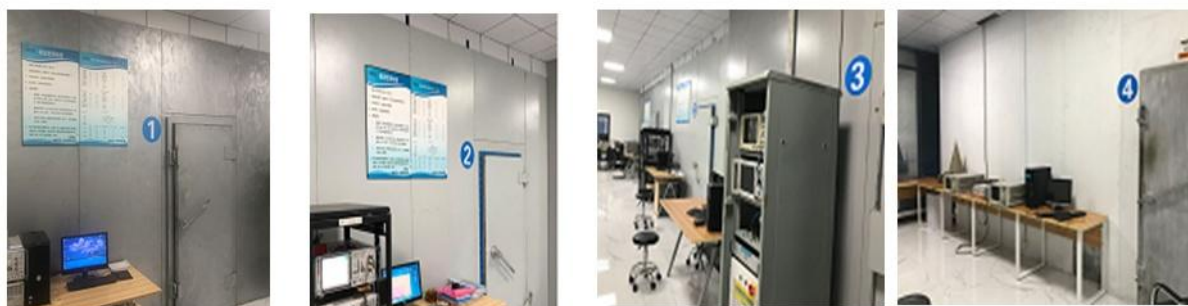
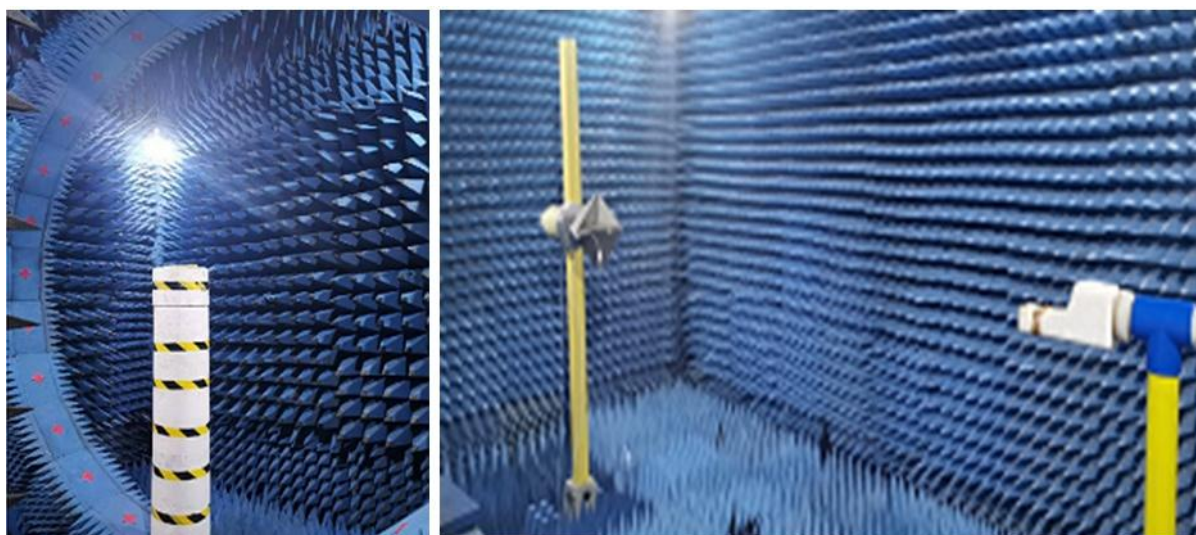
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1 Test System and Equipment

	Test items	equipment
1 : S parameter	1. Return loss 2. VSWR	Network analyzer: A338/A333/HP8753D
2 : Active test	1. TRP 2. TIS	Comprehensive test instrument: Agilent 8960/ CMW500
3 : Radiation mode and gain	1. Radiation mode 2. Gain	1. Shielding room: 7x4x3 m (ETS-3D) 2. Network analyzer: HP 8753D



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2 Product Description

Technical requirements	Technical index	Remarks
Band	WIFI:2. 4G/5G	
Range Of Frequency	WIFI:2400-2500Mhz; 5180-5850Mhz;	
VSWR	<2.0	Center Frequency
Impedance	50 Ω	
Polarization	Linear polarization	
operating temperature	-20℃ / +75℃	
storage temperature	25±5℃	
Salt Fog	24h(24h alternating wet & dry)	
RoHS Compliant	yes	

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3 Device Description

The whole machine photo



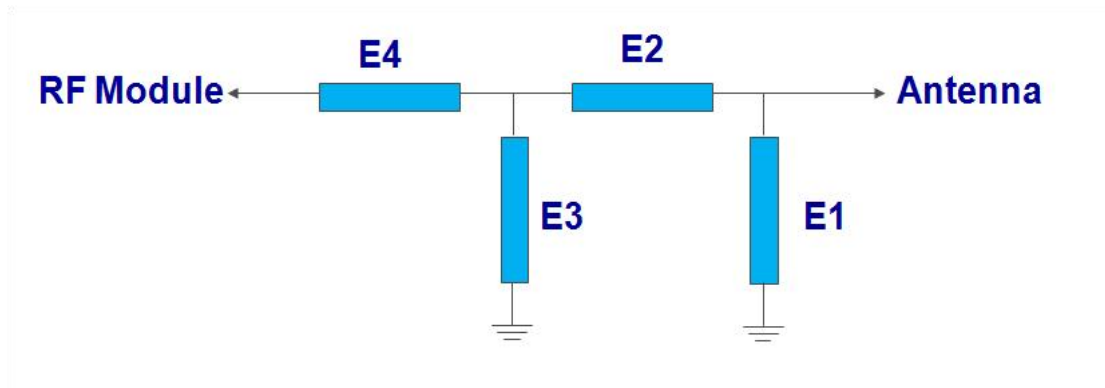
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4 Matching Circuits



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

Original match unchanged.

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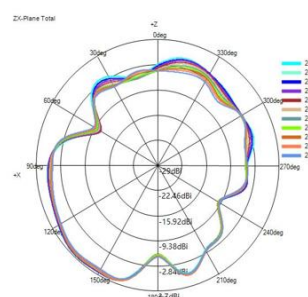
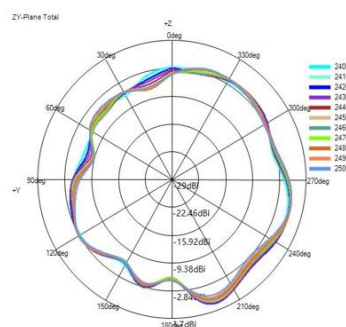
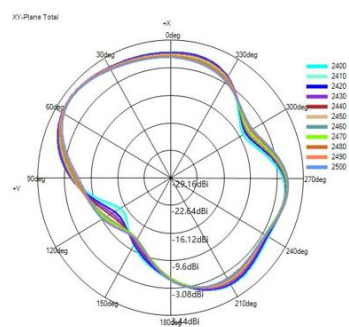
5 Test Data

WIFI BAND	802.11b : 11Mbps(2.4G)			802.11g : 54Mbps(2.4G)		
Channel	CH1	CH7	CH13	CH1	CH7	CH13
TRP	15.42	16.22	15.56	12.41	12.74	13.11
TIS	-82.49	-82.55	-81.74	-70.51	-70.46	-70.08

WIFI BAND	802.11n : MCS7(2.4G)			802.11a : 54Mbps(5G)		
Channel	CH1	CH7	CH13	CH36	CH149	CH165
TRP	12.17	12.54	12.88	13.45	12.39	12.18
TIS	-70.69	-70.41	-70.27	-69.22	-68.74	-68.51

Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	2.76	57.89
2410	2.66	57.55
2420	2.74	58.06
2430	2.63	56.22
2440	2.60	54.25
2450	2.46	53.04
2460	2.35	50.90
2470	2.30	50.26
2480	2.33	51.14
2490	2.15	49.91
2500	1.95	48.23

Freq (MHz)	Gain (dBi)	Efficiency (%)
5000	2.35	60.88
5100	3.17	65.03
5200	3.75	65.96
5300	3.45	59.32
5400	3.56	69.03
5500	3.13	64.45
5600	3.35	73.86
5700	2.70	63.06
5800	2.19	59.43
5900	2.37	56.29
6000	2.68	56.60

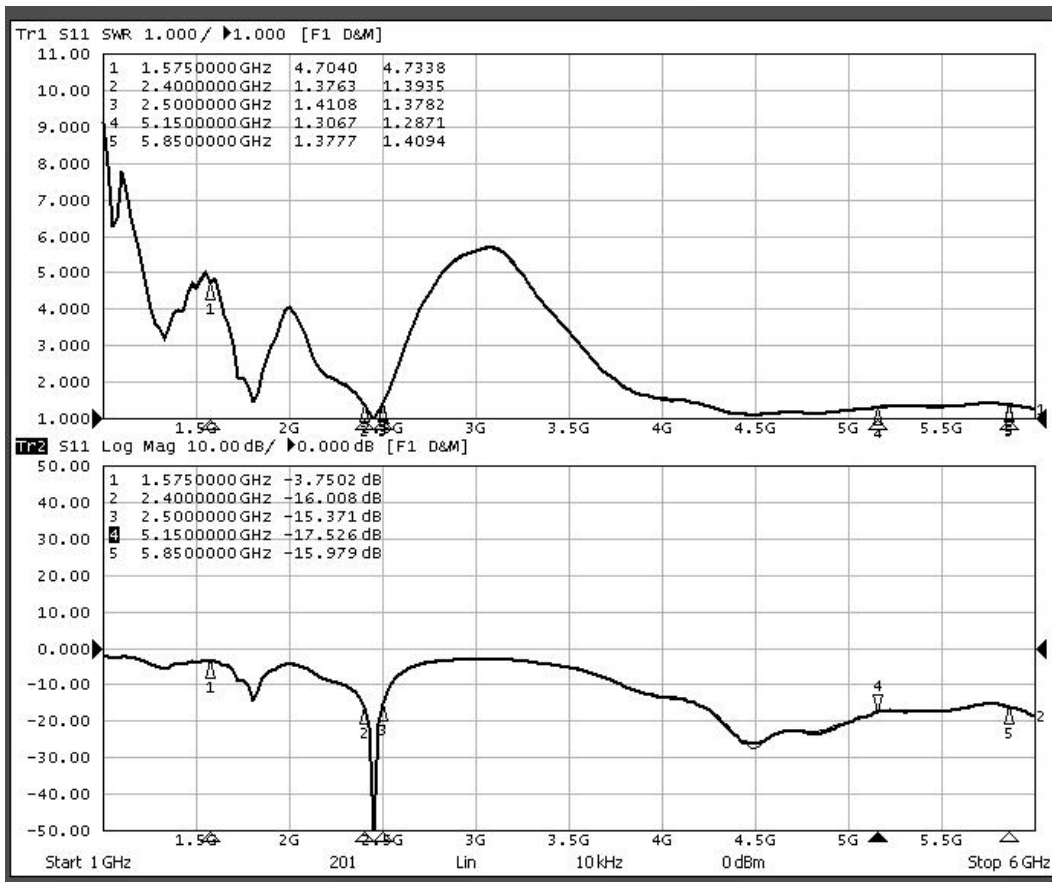
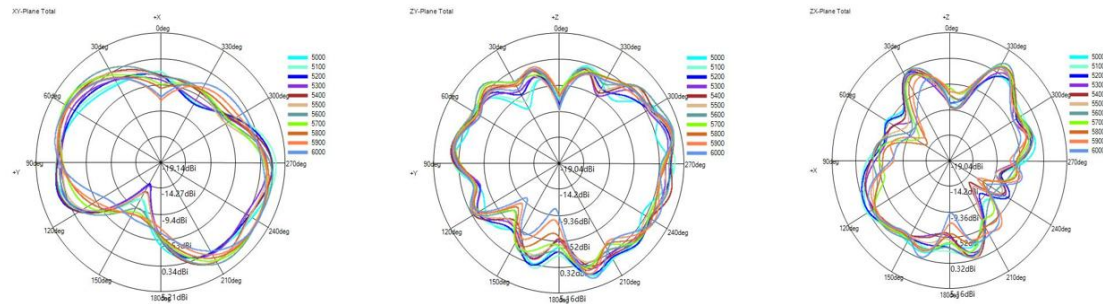


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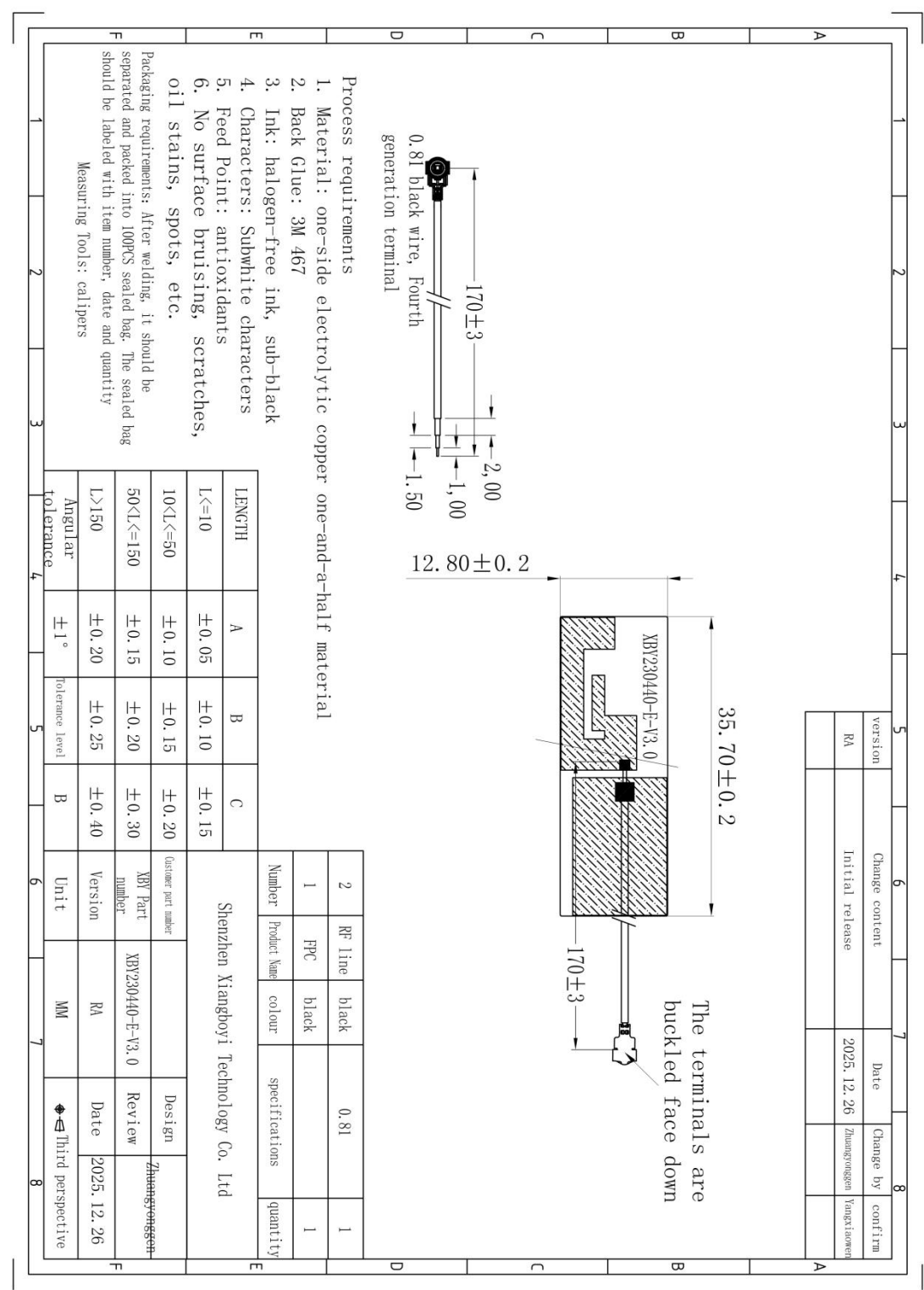
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6 Engineering Drawing



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7 Physical Assembly Picture



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