

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	Ying Tang
Project	15. 6 cun
Project NO	XBY240327

Shenzhen Xiangboyi Technology Co. Ltd

Date : 2025/1/6

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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.

Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

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Catalogue

1 Test System and Equipment	- 4 -
2 Product Description	- 5 -
3 Device Description	- 6 -
4 Matching Circuits	- 7 -
5 Test Data	- 8 -
6 Engineering Drawing	- 11 -

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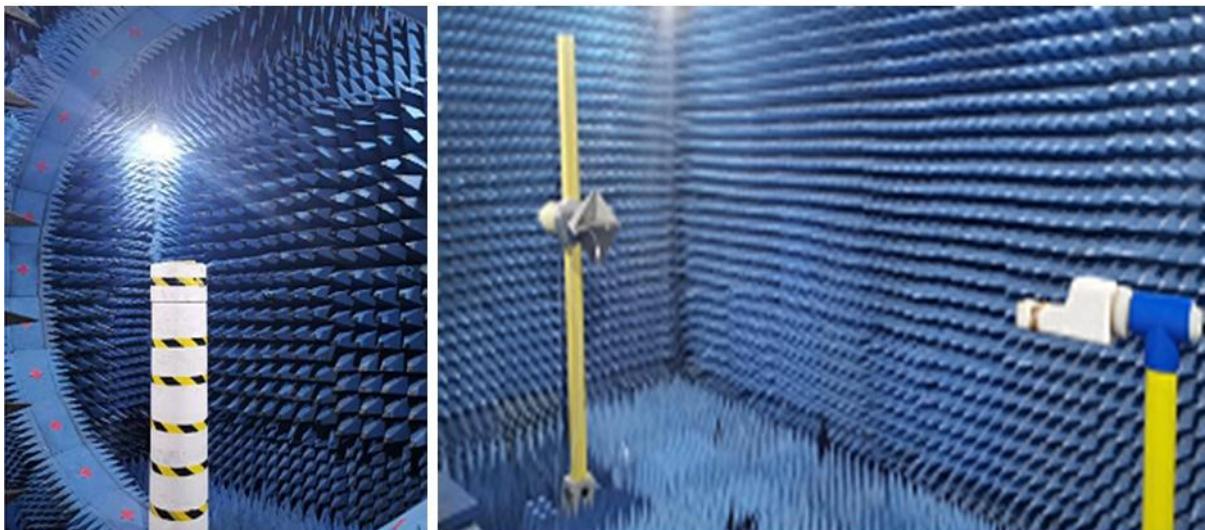
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1 Test System and Equipment

	Test items	equipment
1 : S parameter	1. Return loss 2. VSWR	Network analyzer: A338/A333/HP8753D
2 : 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	2400–2500Mhz 5100–5900Mhz	
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	
Antenna type	FPC	

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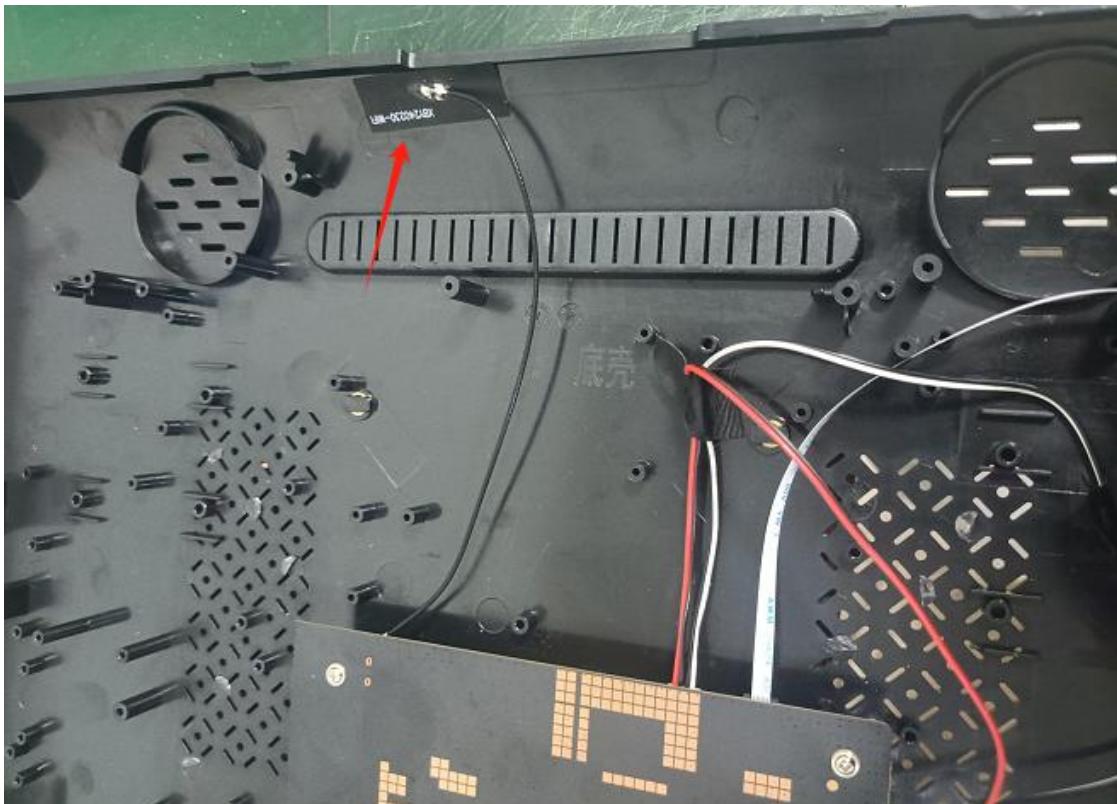
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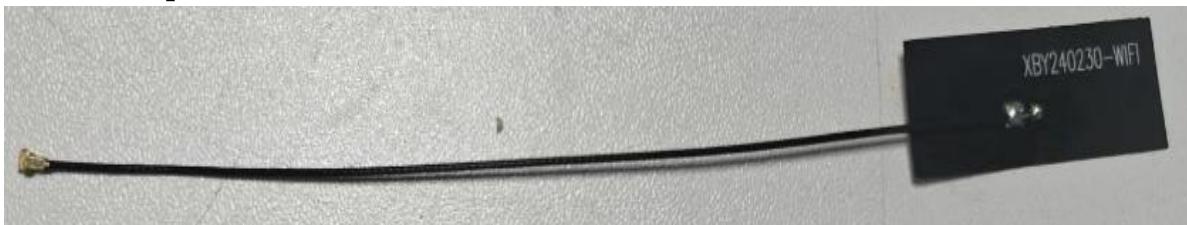
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3 Device Description

The whole machine photo



Antenna photo



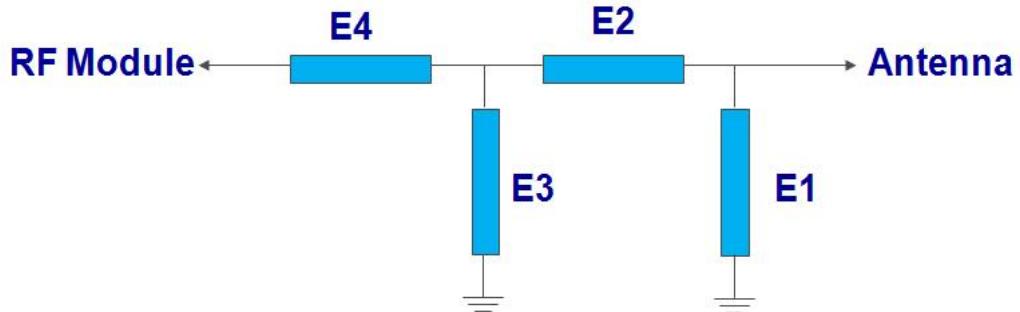
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4 Matching Circuits



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

Original match unchanged.

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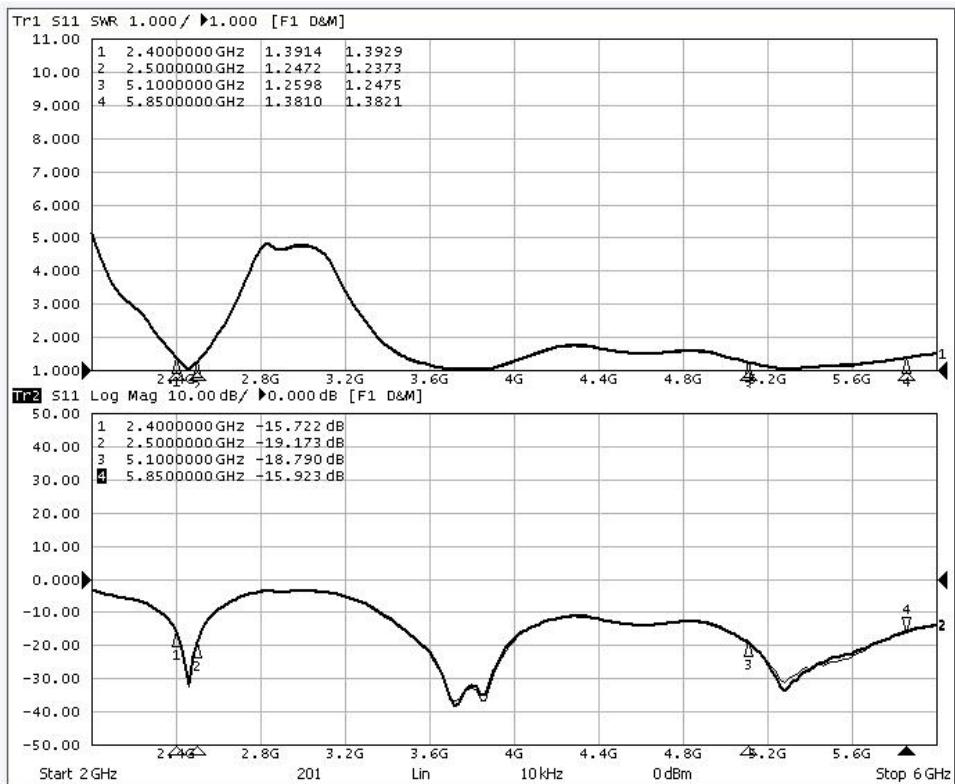
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5 Test Data

Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	2.76	48.49
2450	2.53	47.37
2500	2.40	46.97
5100	2.31	55.68
5200	2.60	60.95
5300	2.97	57.68
5400	3.77	65.77
5500	3.47	60.55
5600	4.00	67.94
5700	3.46	57.60
5800	3.13	55.68
5900	3.16	53.07

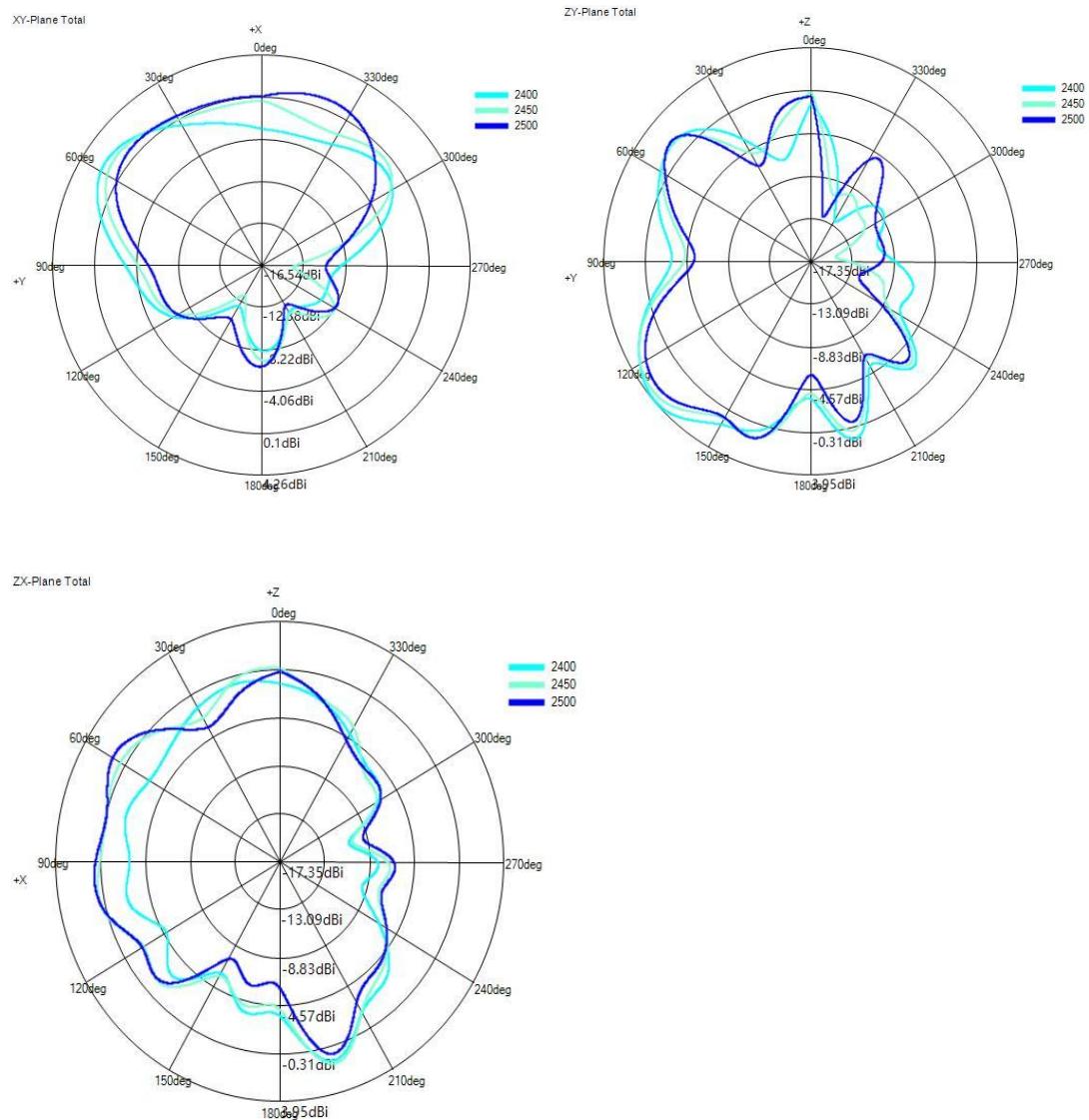


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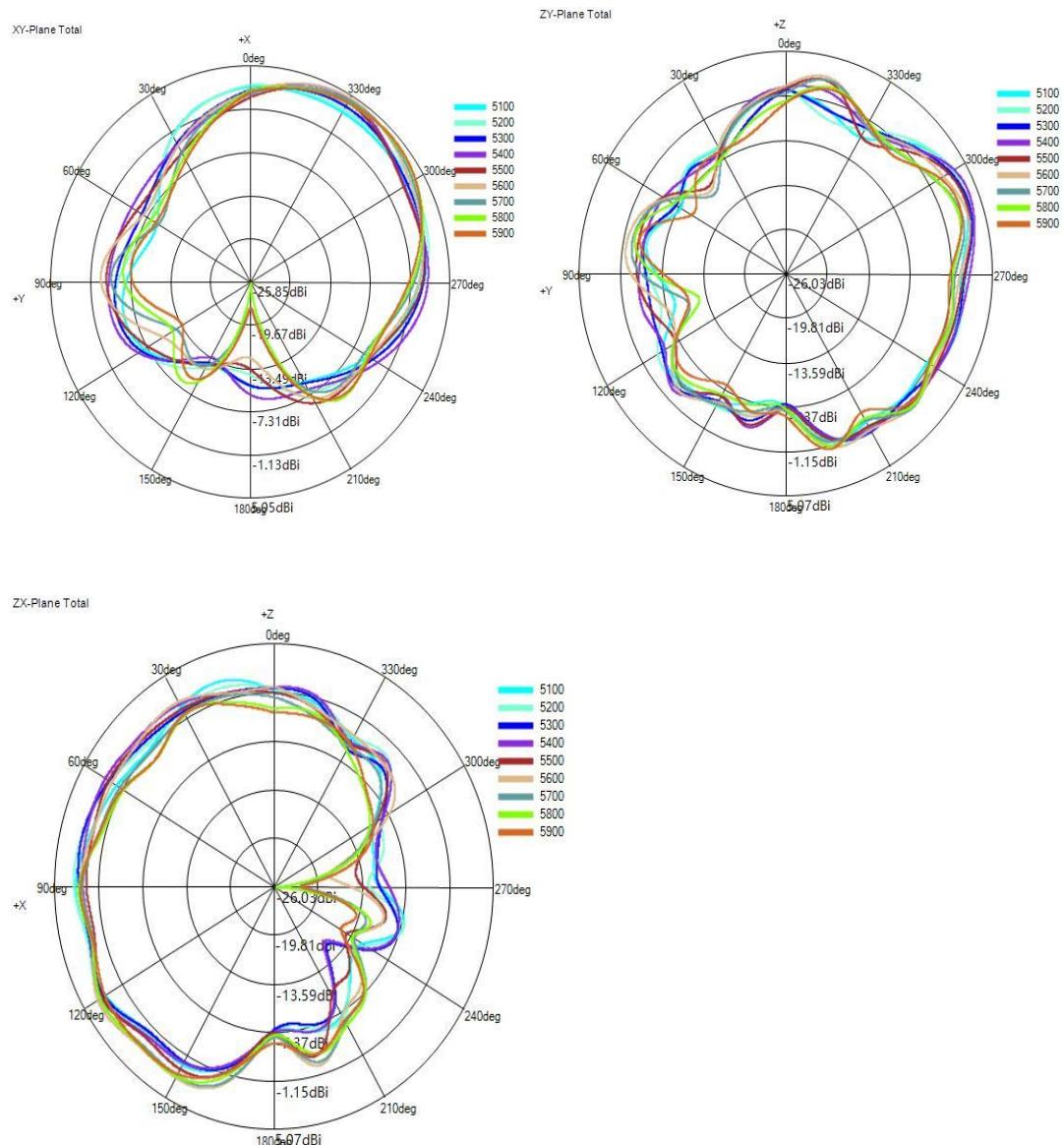


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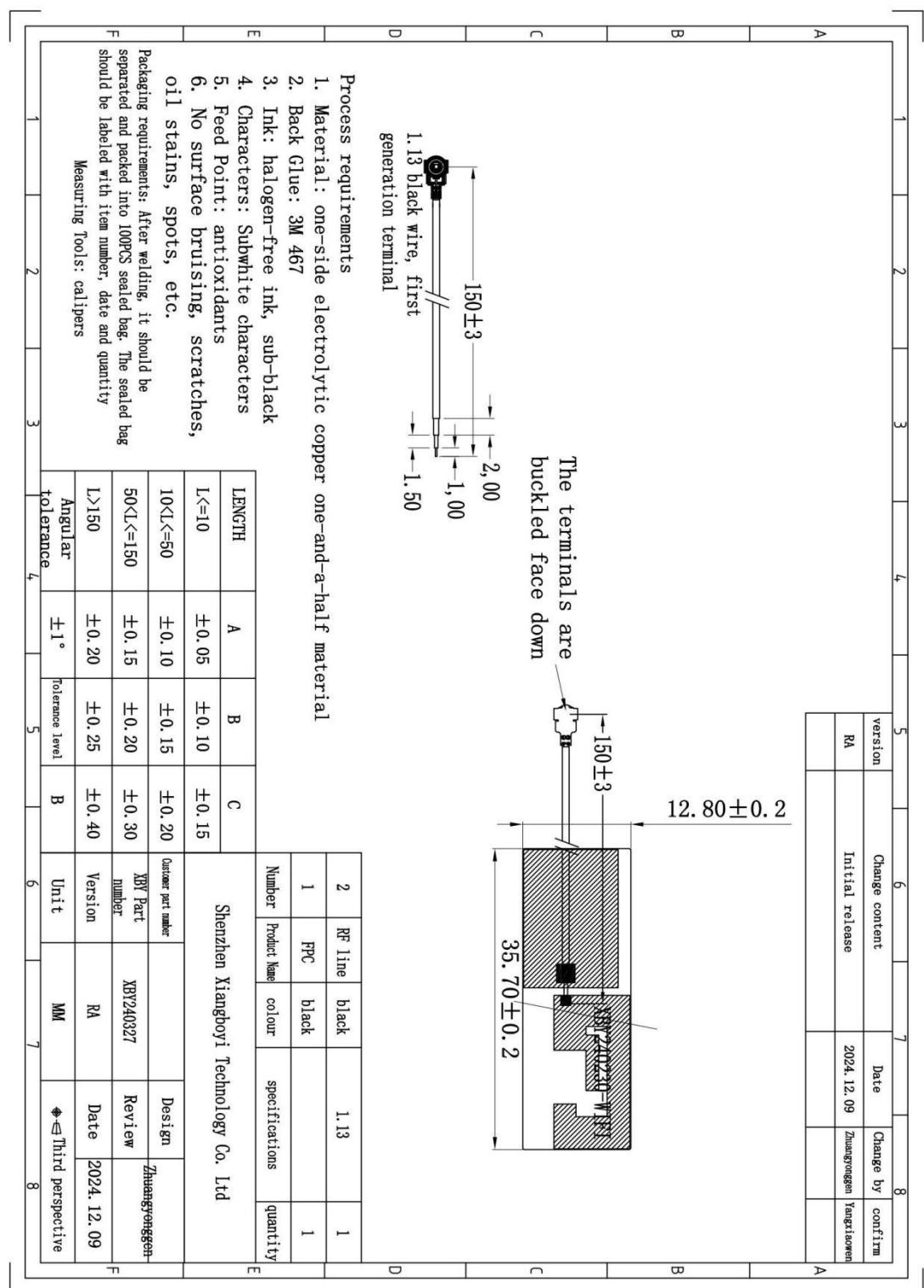
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6 Engineering Drawing



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