

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	Ba jiu ke ji
Project	K32/K52/K62
Project NO	XBY230278

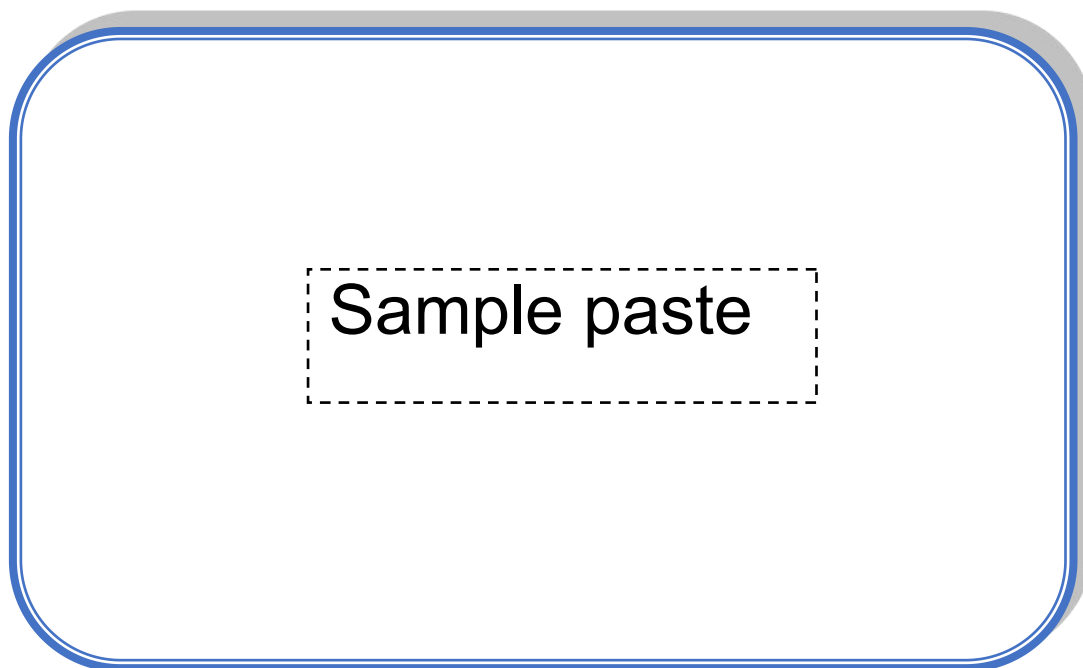
Shenzhen Xiangboyi Technology Co. Ltd

Date: 2024/3/9

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.



Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

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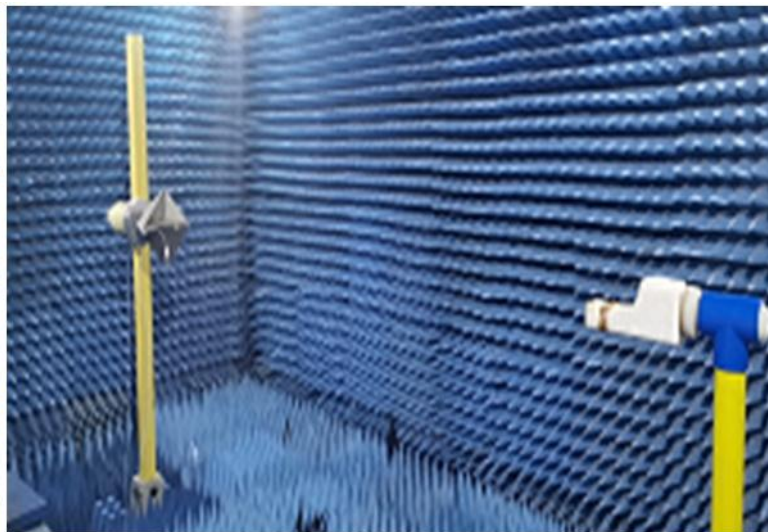
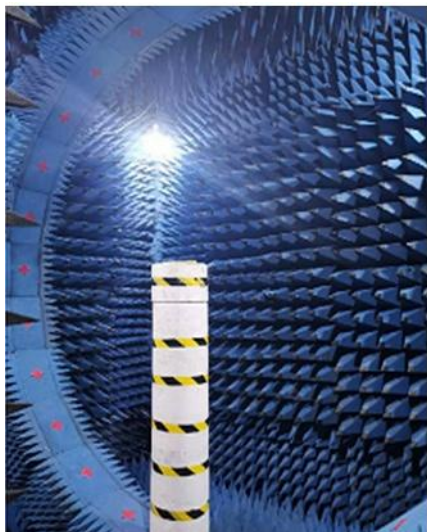
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1 Test System and Equipment

	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	
Range Of Frequency	WIFI:2400-2500Mhz;	
VSWR	<2.0	Center Frequency
Impedance	50 Ω	
Polarization	Linear polarization	
operating temperature	-32℃ / +55℃	
storage temperature	-55℃ / +85℃	
Salt Fog	24h(24h alternating wet & dry)	
RoHS Compliant	yes	

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3 Device Description

The whole machine photo



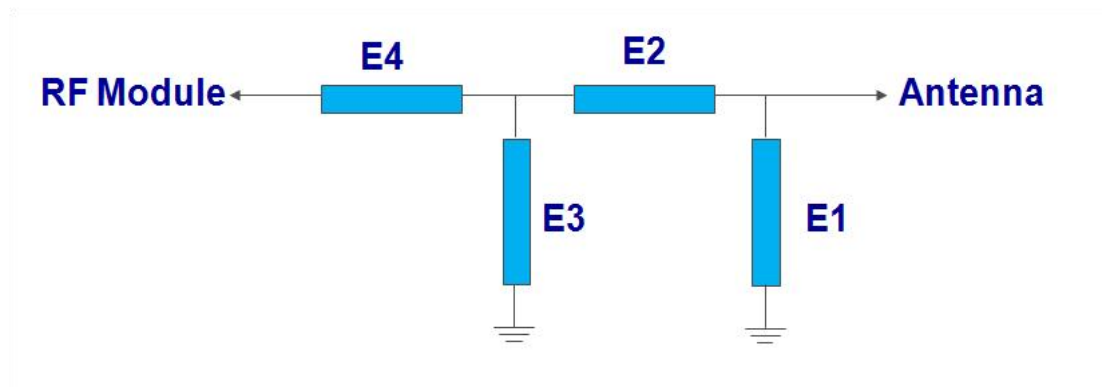
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4 Matching Circuits



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

Original match unchanged.

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5 Test Data

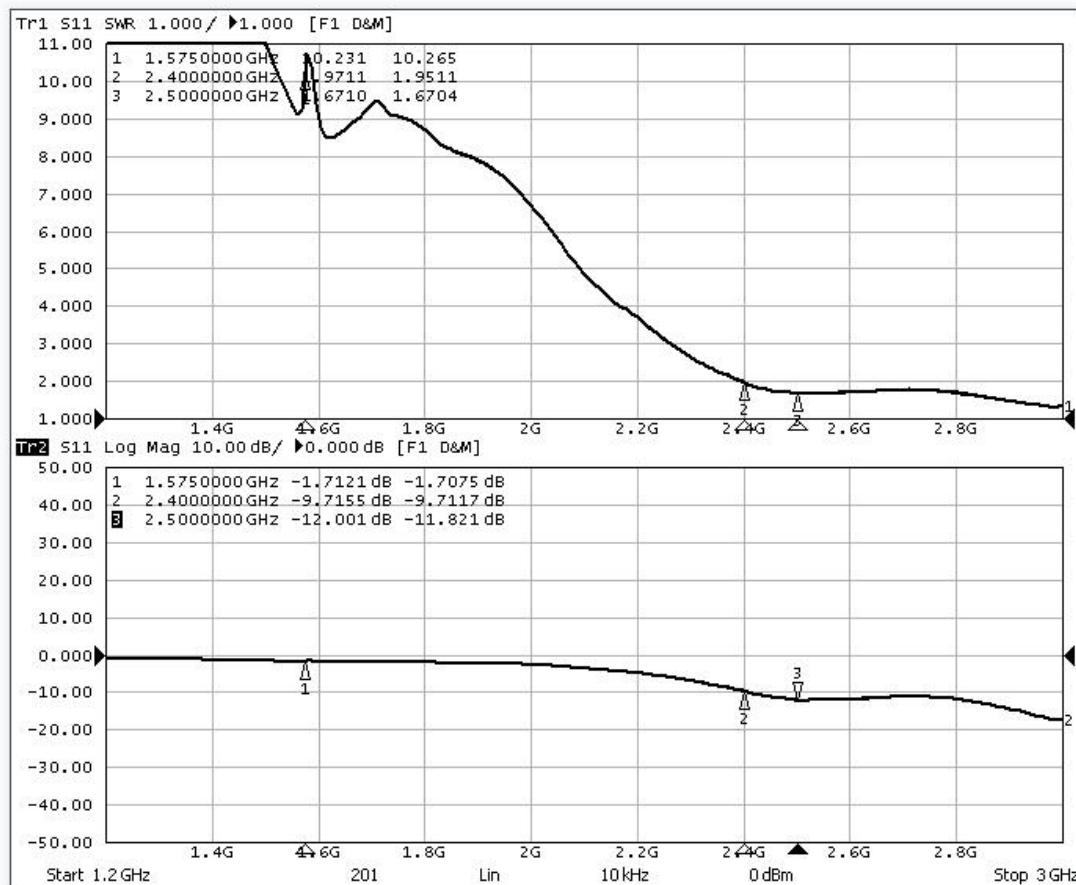
K62	802.11b : 11Mbps			
	Wifi 2G TRP		Wifi 2G TIS	
	1	6	11	11
	2412	2437	2462	2462
	13.96	14.38	15.07	-79.82
	802.11g : 54Mbps			
	Wifi 2G TRP		Wifi 2G TIS	
	1	6	11	11
	2412	2437	2462	2462
	12.48	12.65	13.5	-68.83
K52	802.11b : 11Mbps			
	Wifi 2G TRP		Wifi 2G TIS	
	1	6	11	11
	2412	2437	2462	2462
	13.47	14.31	14.56	-78.68
	802.11g : 54Mbps			
	Wifi 2G TRP		Wifi 2G TIS	
	1	6	11	11
	2412	2437	2462	2462
	12.21	12.56	13.14	-68.17
K32	802.11b : 11Mbps			
	Wifi 2G TRP		Wifi 2G TIS	
	1	6	11	11
	2412	2437	2462	2462
	13.34	12.31	13.77	-81.3
	802.11g : 54Mbps			
	Wifi 2G TRP		Wifi 2G TIS	
	1	6	11	11
	2412	2437	2462	2462
	12.02	11.94	12.43	-70.11

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Freq (MHz)	Effi (%)	Gain (dBi)
2400	35.26	-0.24
2450	37.84	0.21
2500	40.29	0.54

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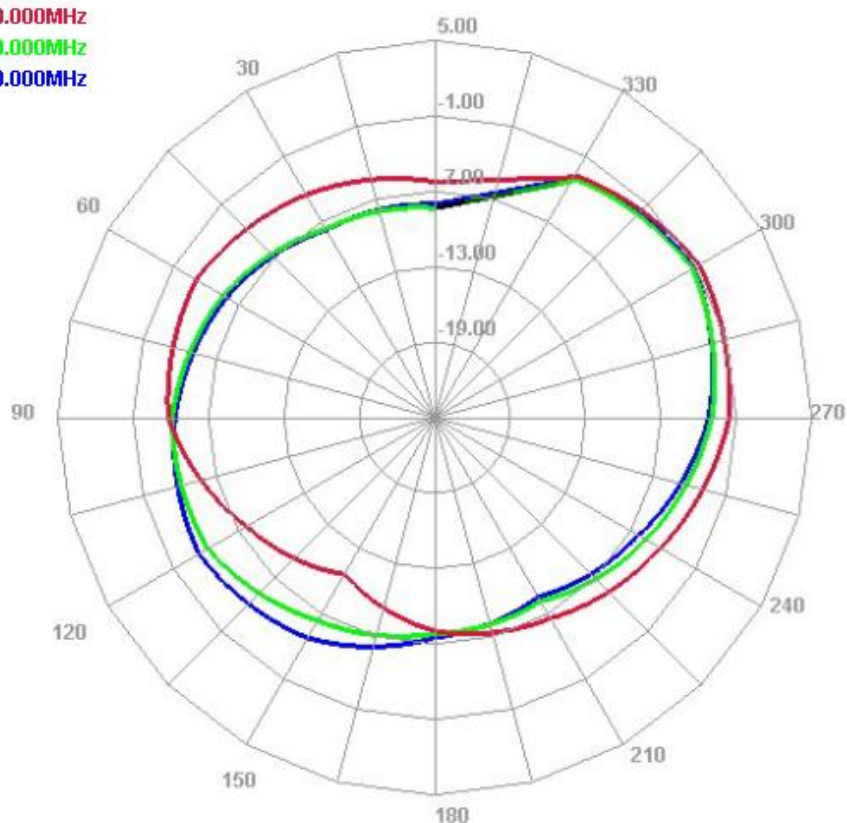
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Horizontal

2400.000MHz

2450.000MHz

2500.000MHz



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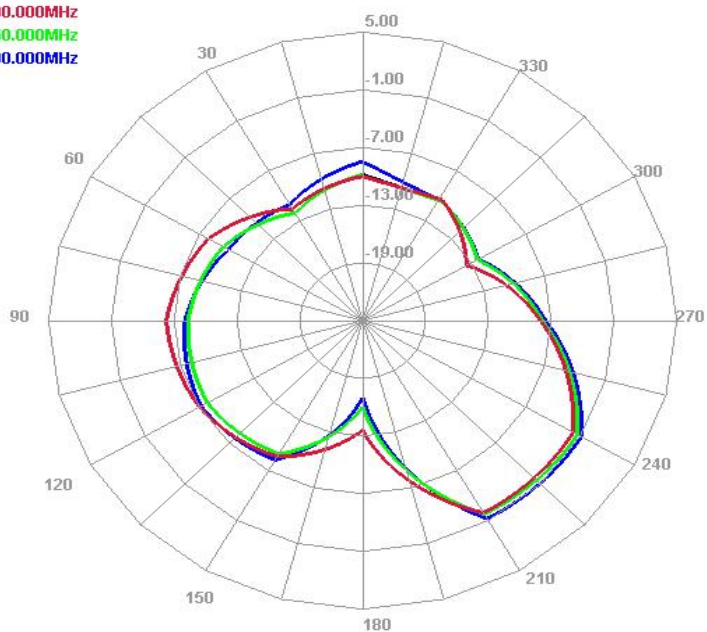
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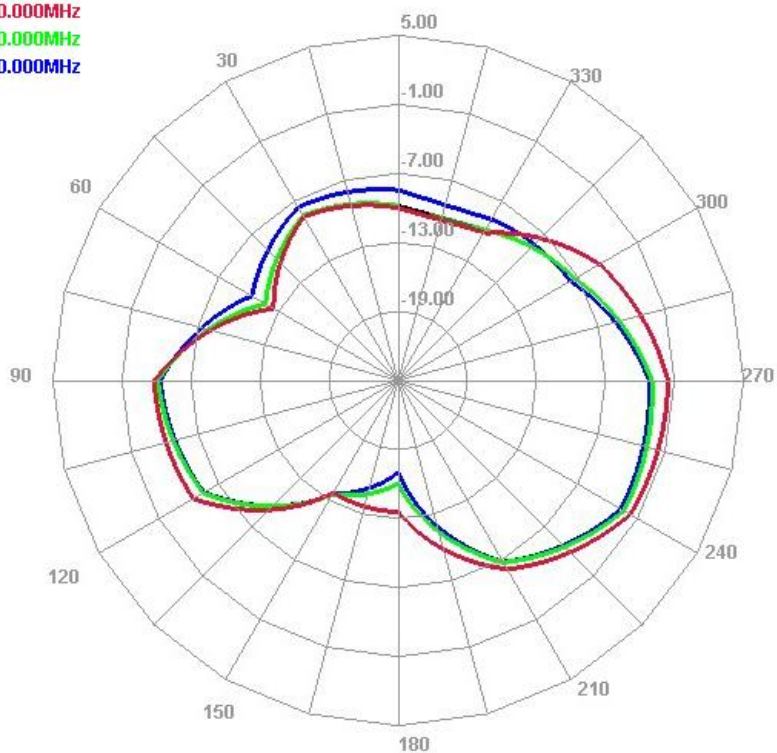
E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



E2 Face

2400.000MHz
2450.000MHz
2500.000MHz



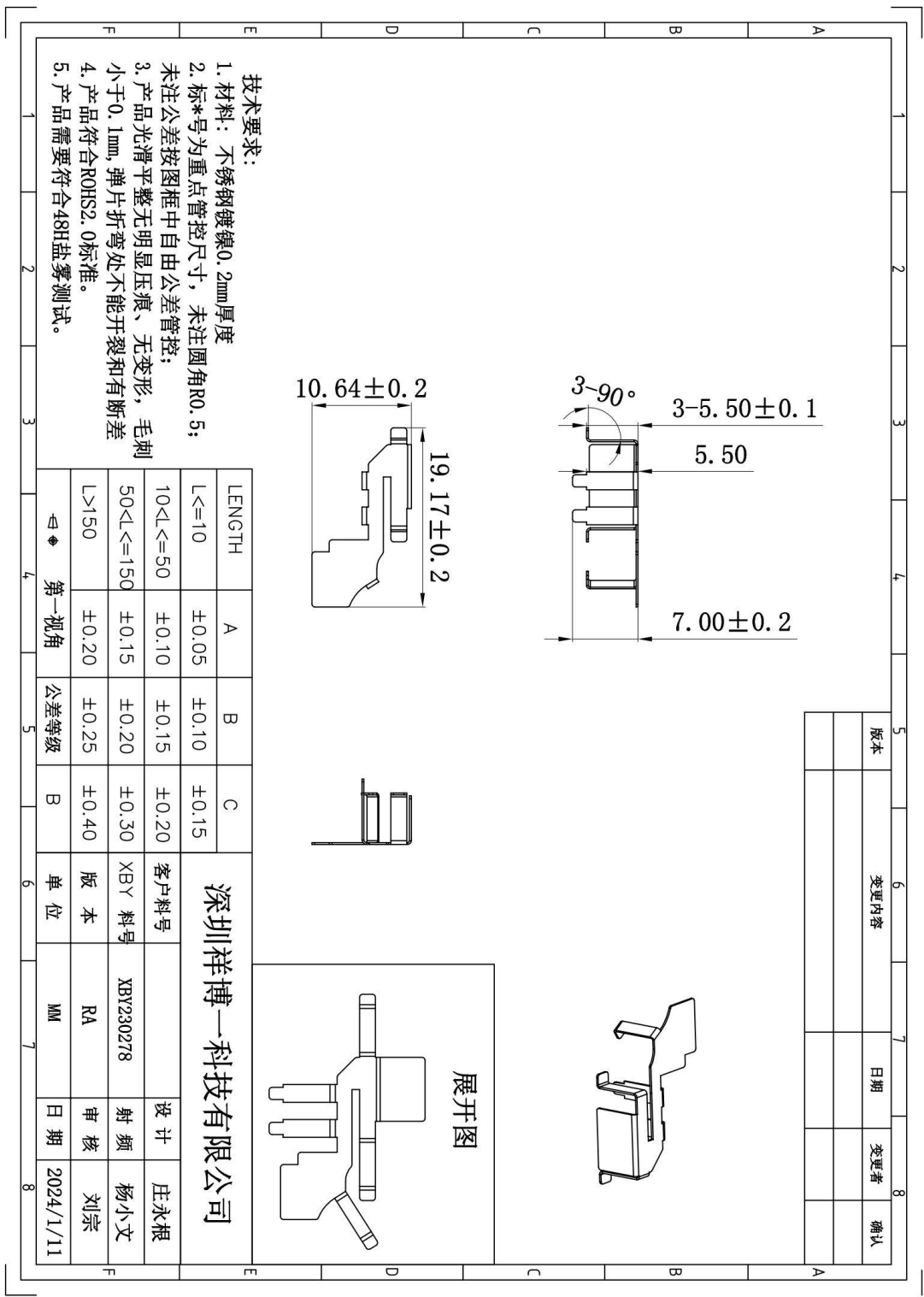
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6 Engineering Drawing



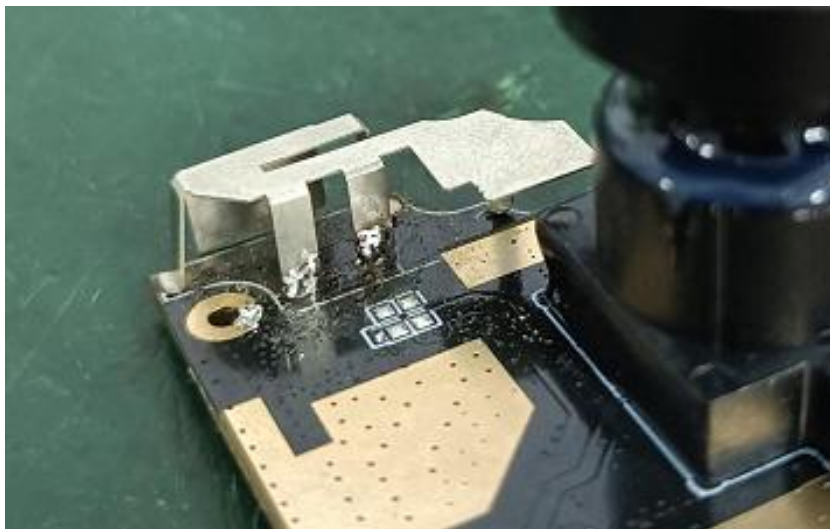
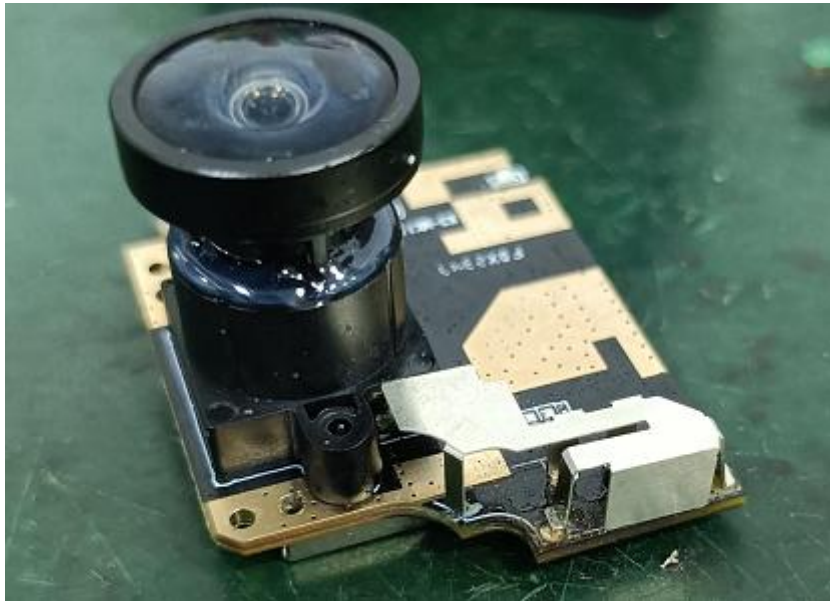
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7. Physical Assembly Picture



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