

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	SHENZHEN FCAR TECHNOLOGY CO., LTD
Project	ANCEL-8000-1
Project NO	XBY230439

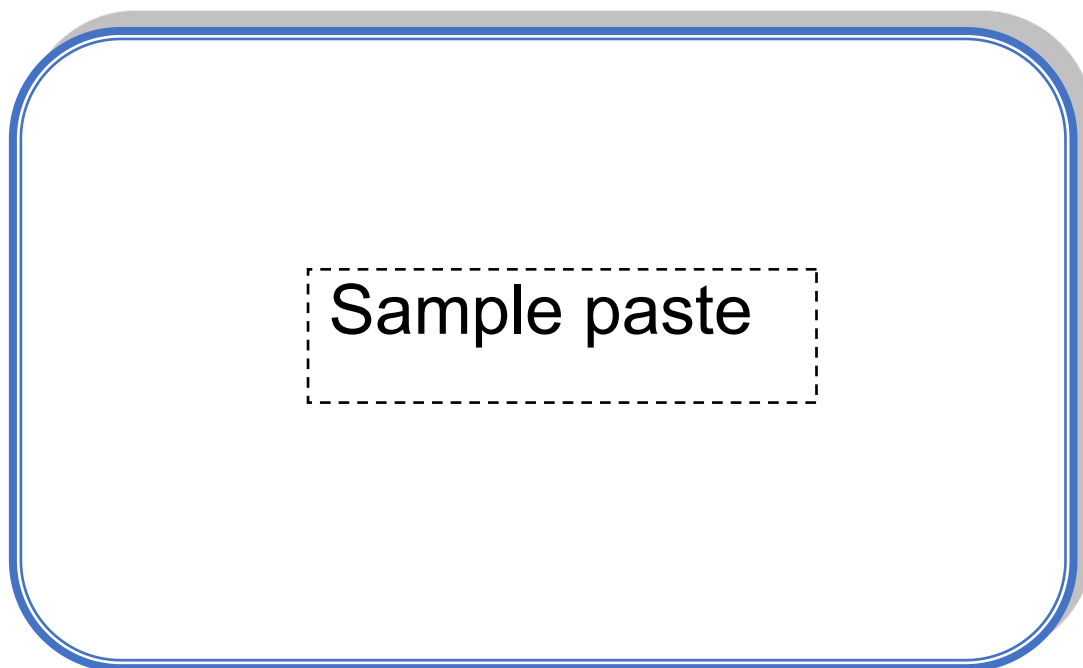
Shenzhen Xiangboyi Technology Co. Ltd

Date : 2023/11/8

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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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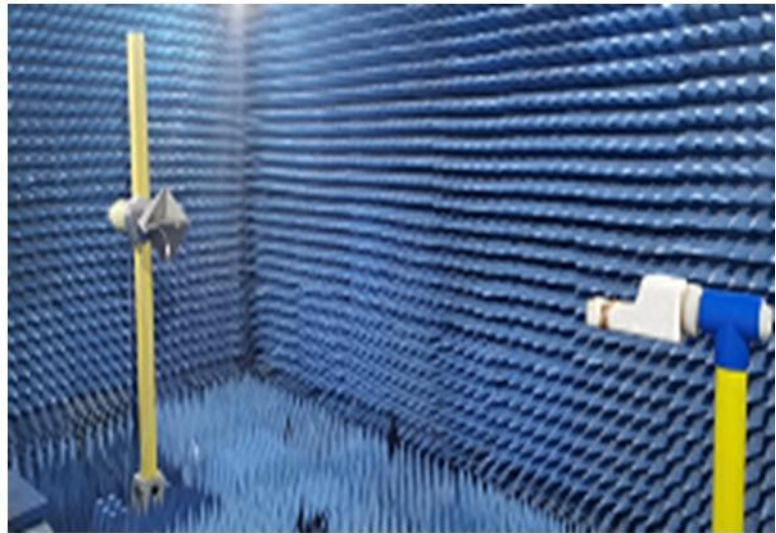
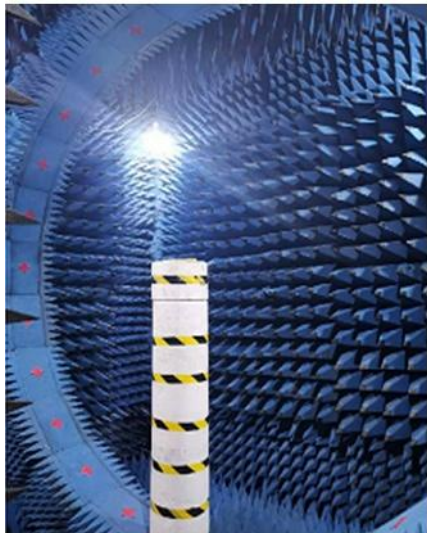
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1 Test System and Equipment

	Test items	equipment
1 : S parameter	1. Return loss 2. VSWR	Network analyzer: A338/A333/HP8753D
2 : Active test		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	BT	
Range Of Frequency	2400–2500Mhz ;	
VSWR	2400–2500Mhz<2. 0	Center Frequency
Impedance	50Ω	
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



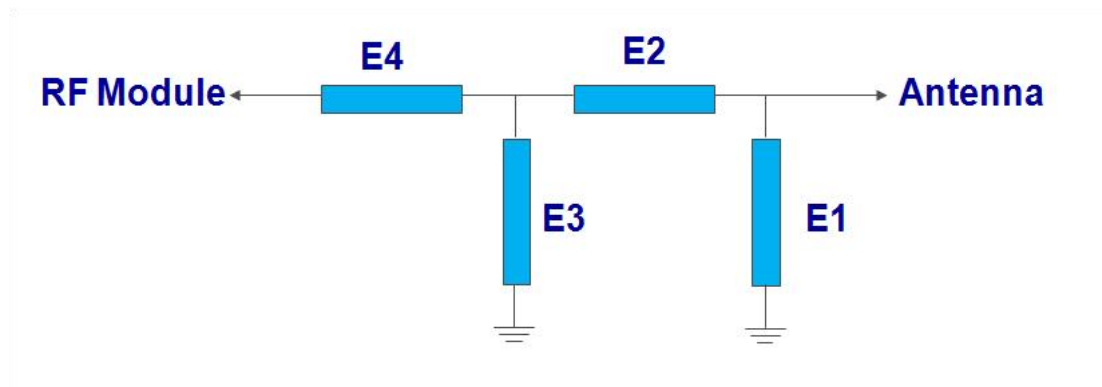
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4 Matching Circuits



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

Original match unchanged.

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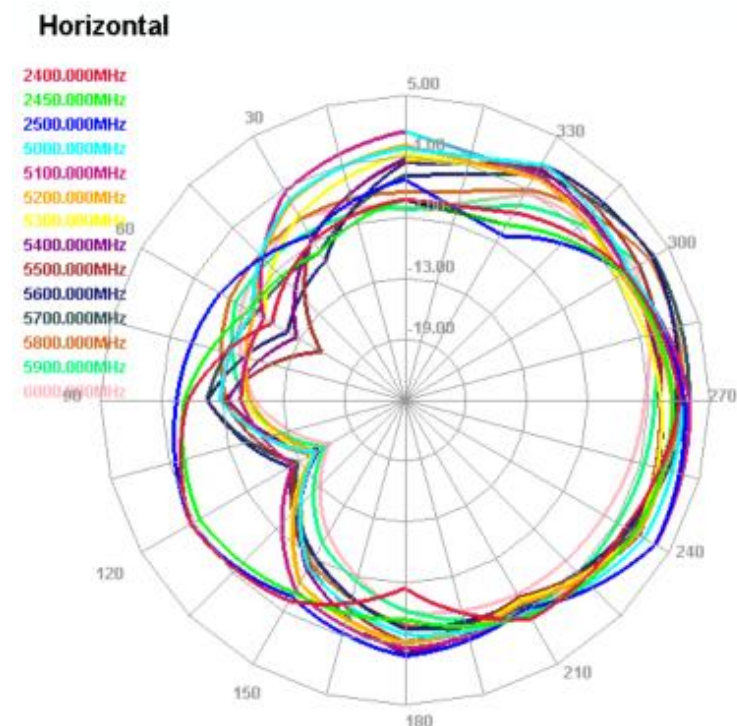
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5 Test Data

Freq (MHz)	Effi (%)	Gain (dBi)
2400	45.75	1.94
2450	47.08	1.76
2500	60.15	2.69
5000	50.21	2.27
5100	57.1	3.46
5200	45.51	1.47
5300	43.55	1.23
5400	46.35	1.61
5500	48.3	1.85
5600	49.63	3.15
5700	49.46	3.29
5800	47.18	2.81
5900	45.71	1.64
6000	44.52	1.07

WiF directivity diagram



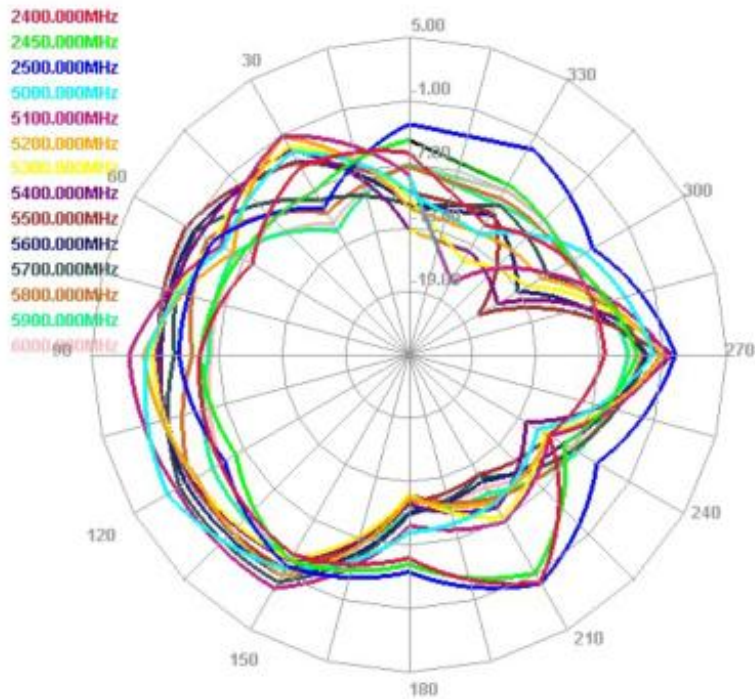
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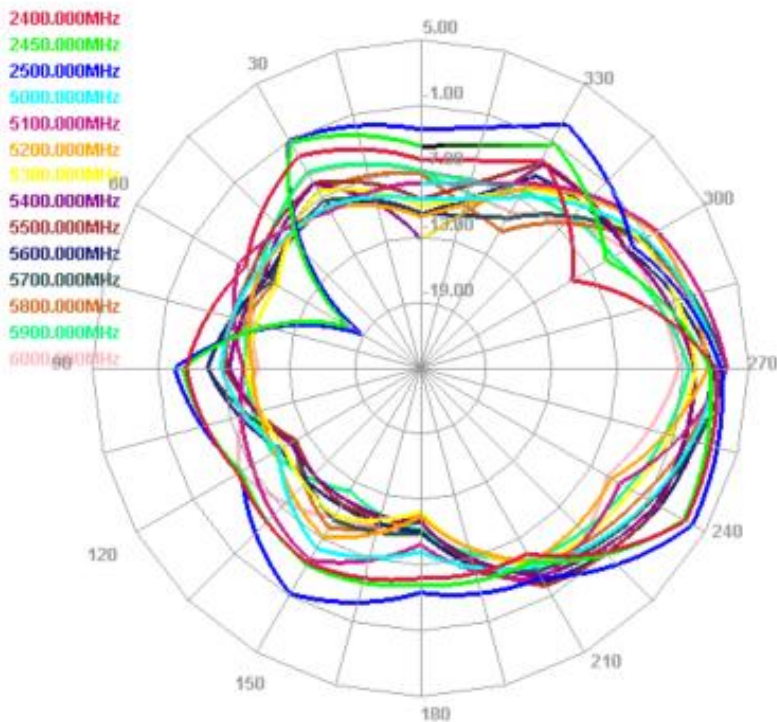
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E1 Face



E2 Face

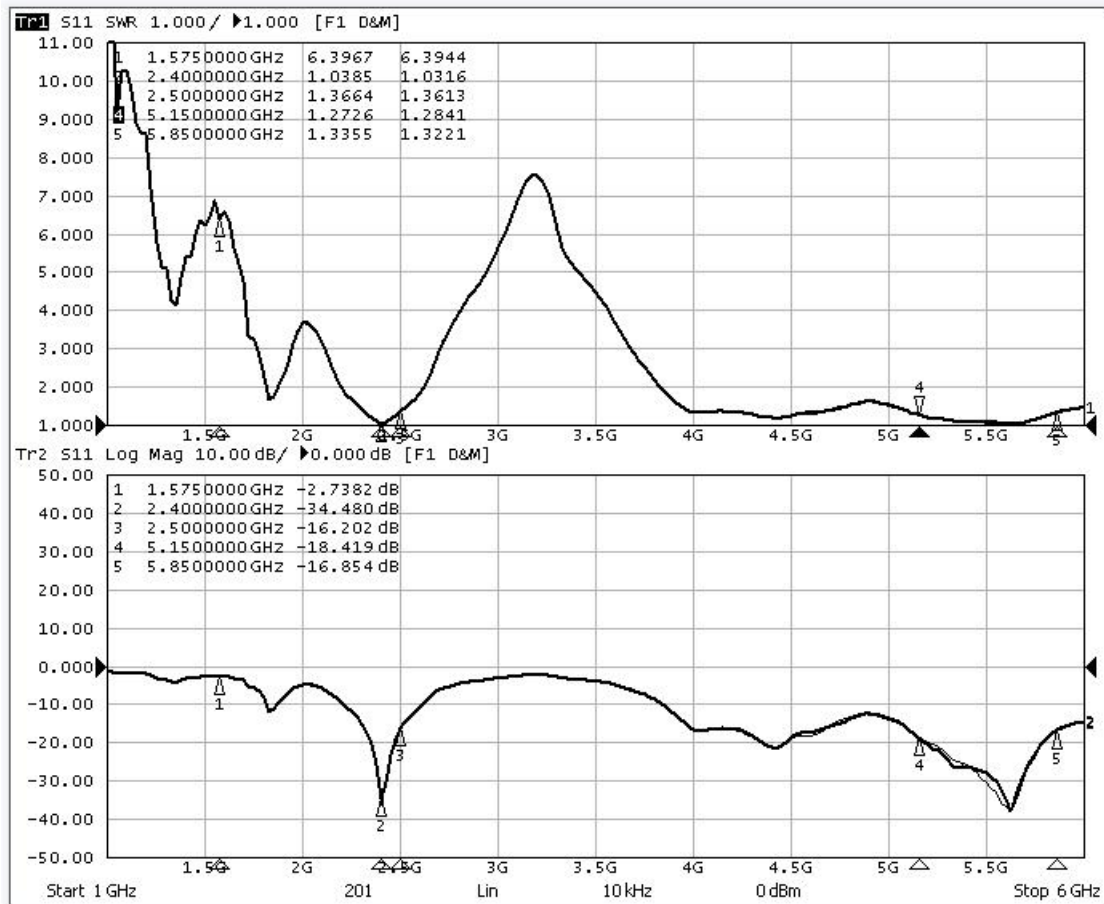


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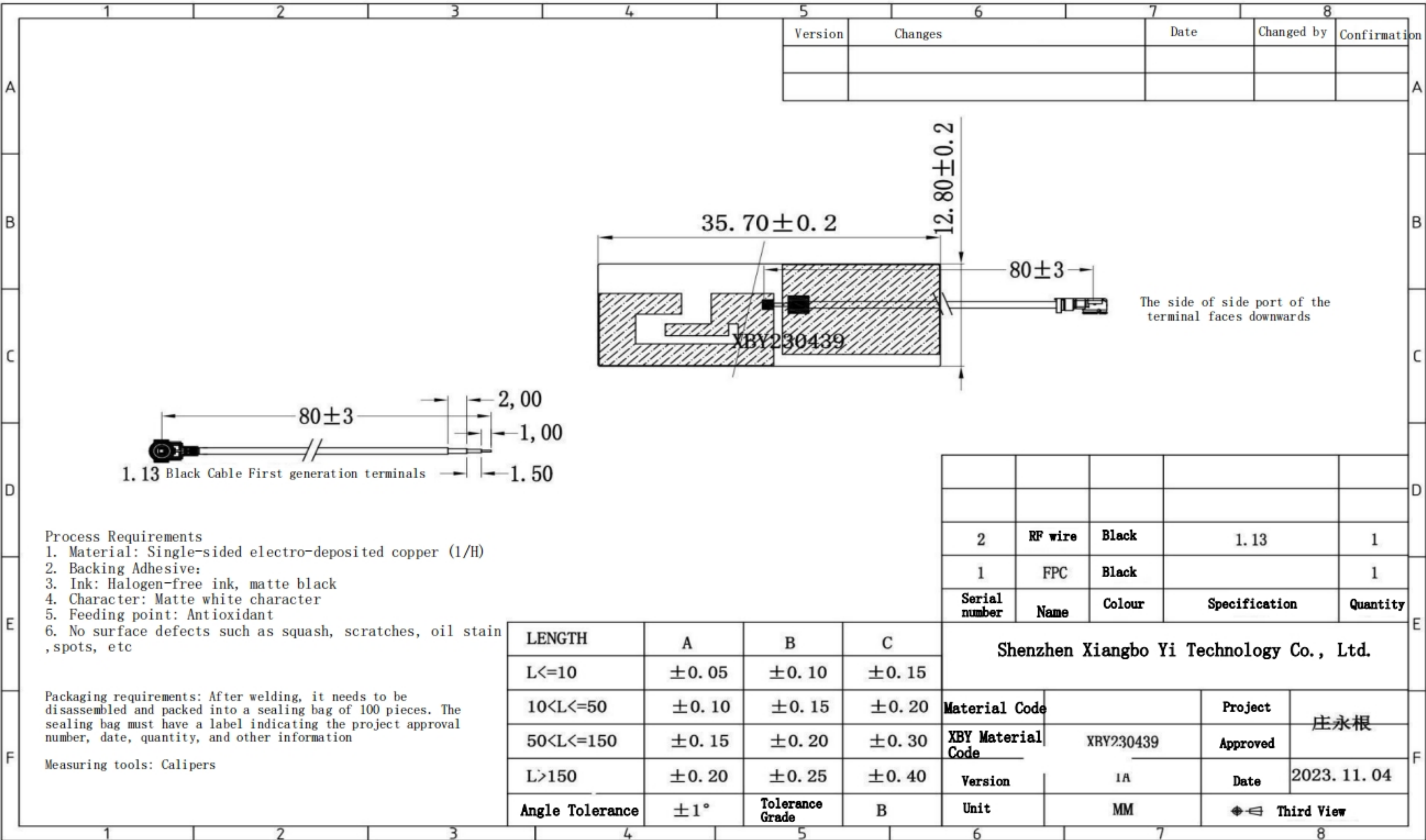


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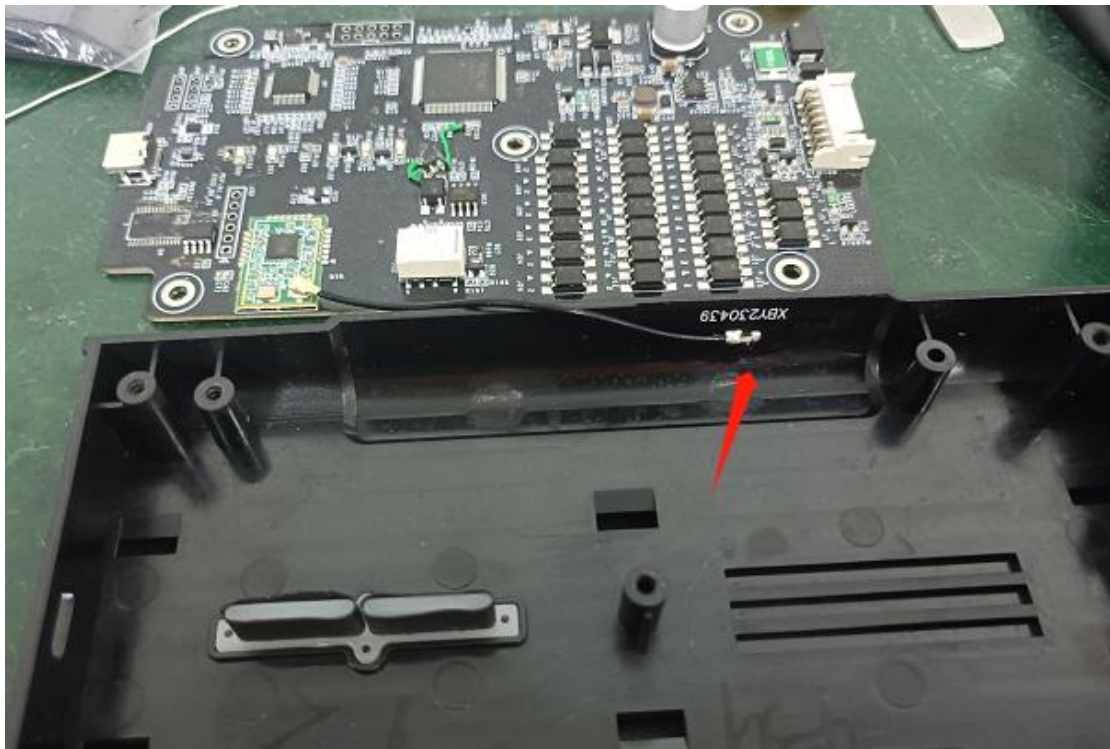
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7. Physical Assembly Picture



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