

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	SHENZHEN FCAR TECHNOLOGY CO., LTD
Project	DS300
Project NO	XBY220374

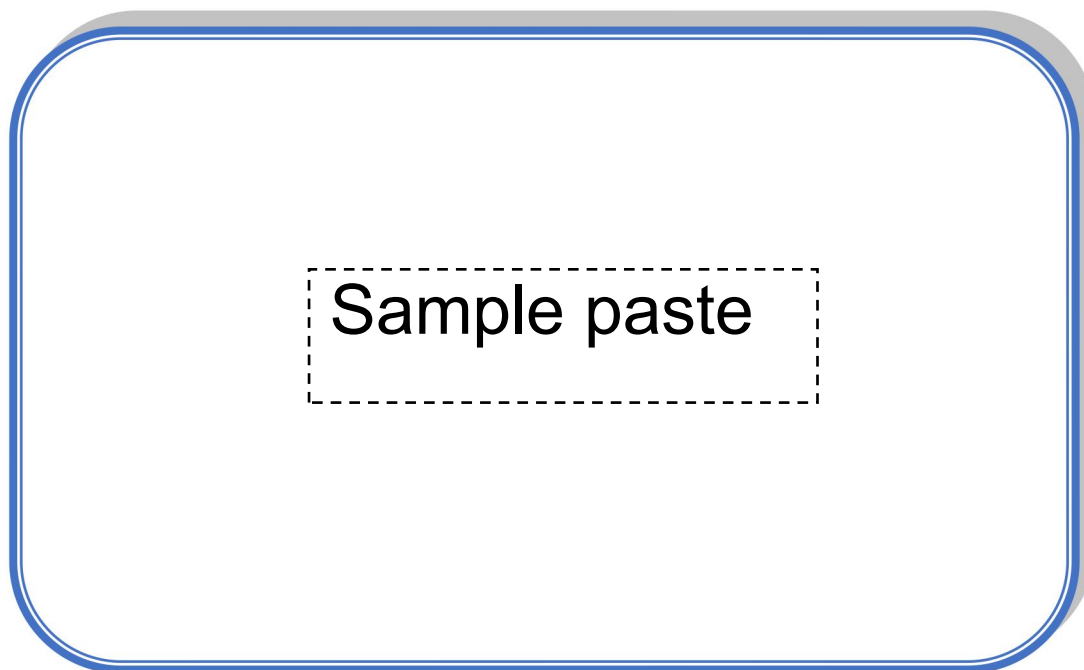
Shenzhen Xiangboyi Technology Co. Ltd

Date : 2022/11/10

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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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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. Transmitting power 2. Receiving sensitivity	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	2. 4G WIFI&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



Antenna photo



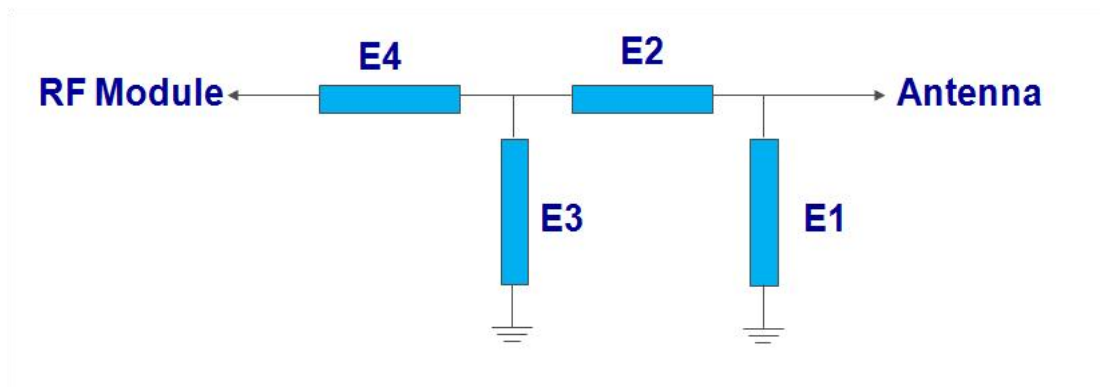
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4 Matching Circuits



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

Original match unchanged.

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5 Test Data

2.4G Effi Gain		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	46.23	1.28
2450	52.41	1.76
2500	47.69	1.41

WiF idirectional diagram; directivity diagram

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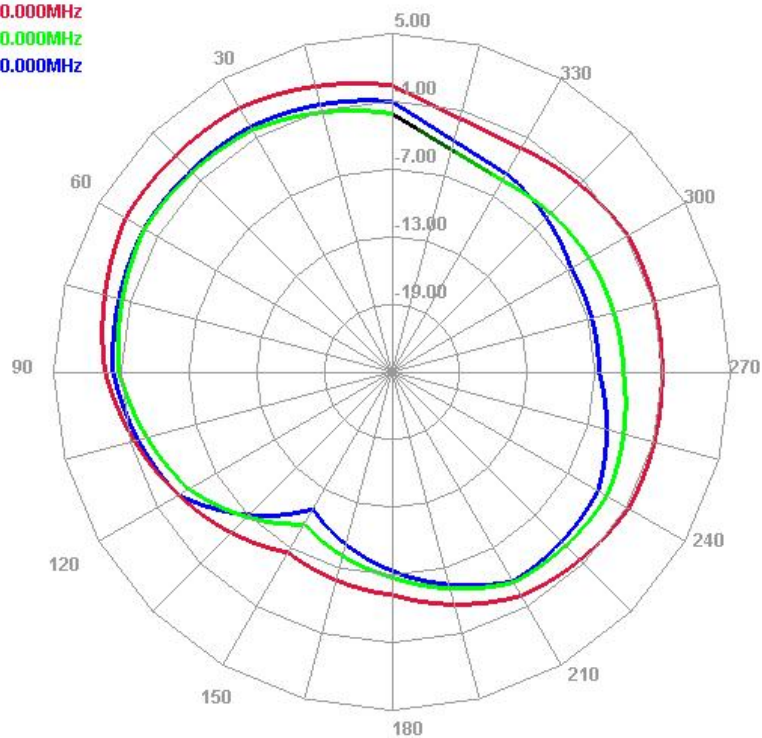
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Horizontal

2400.000MHz
2450.000MHz
2500.000MHz



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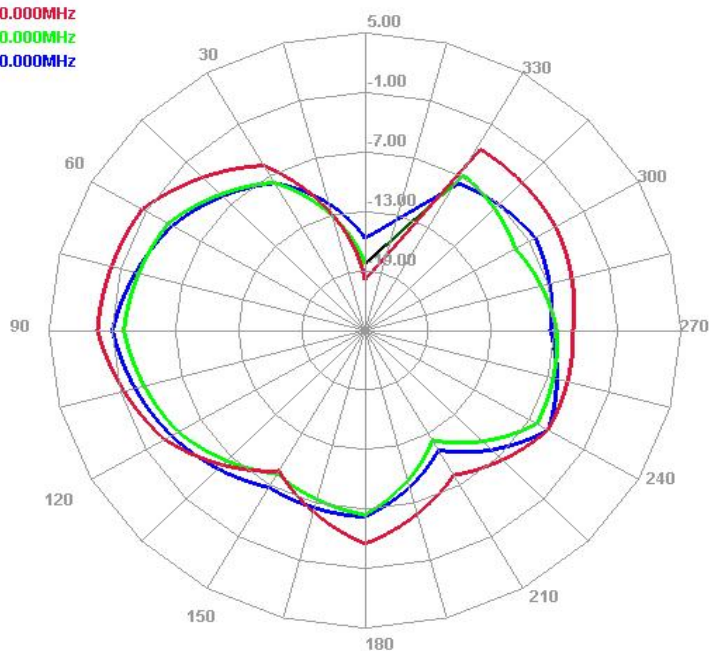
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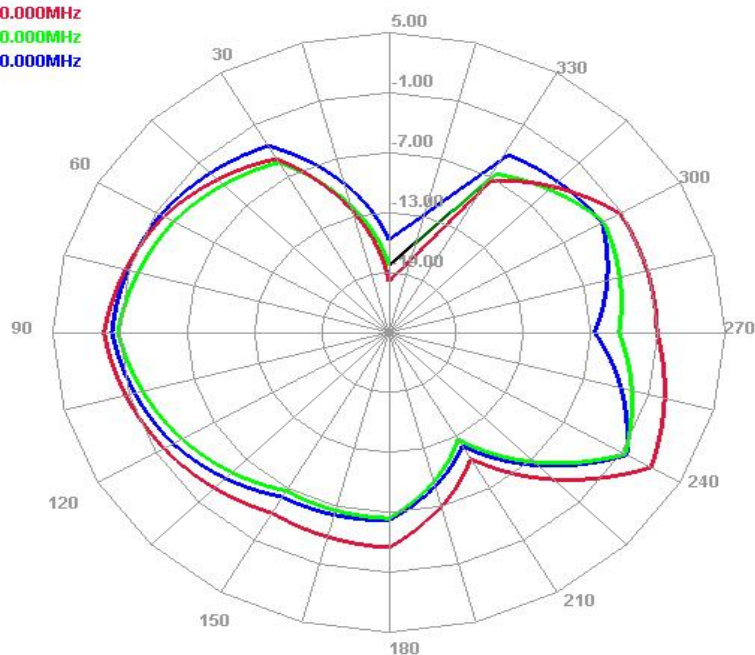
E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



E2 Face

2400.000MHz
2450.000MHz
2500.000MHz



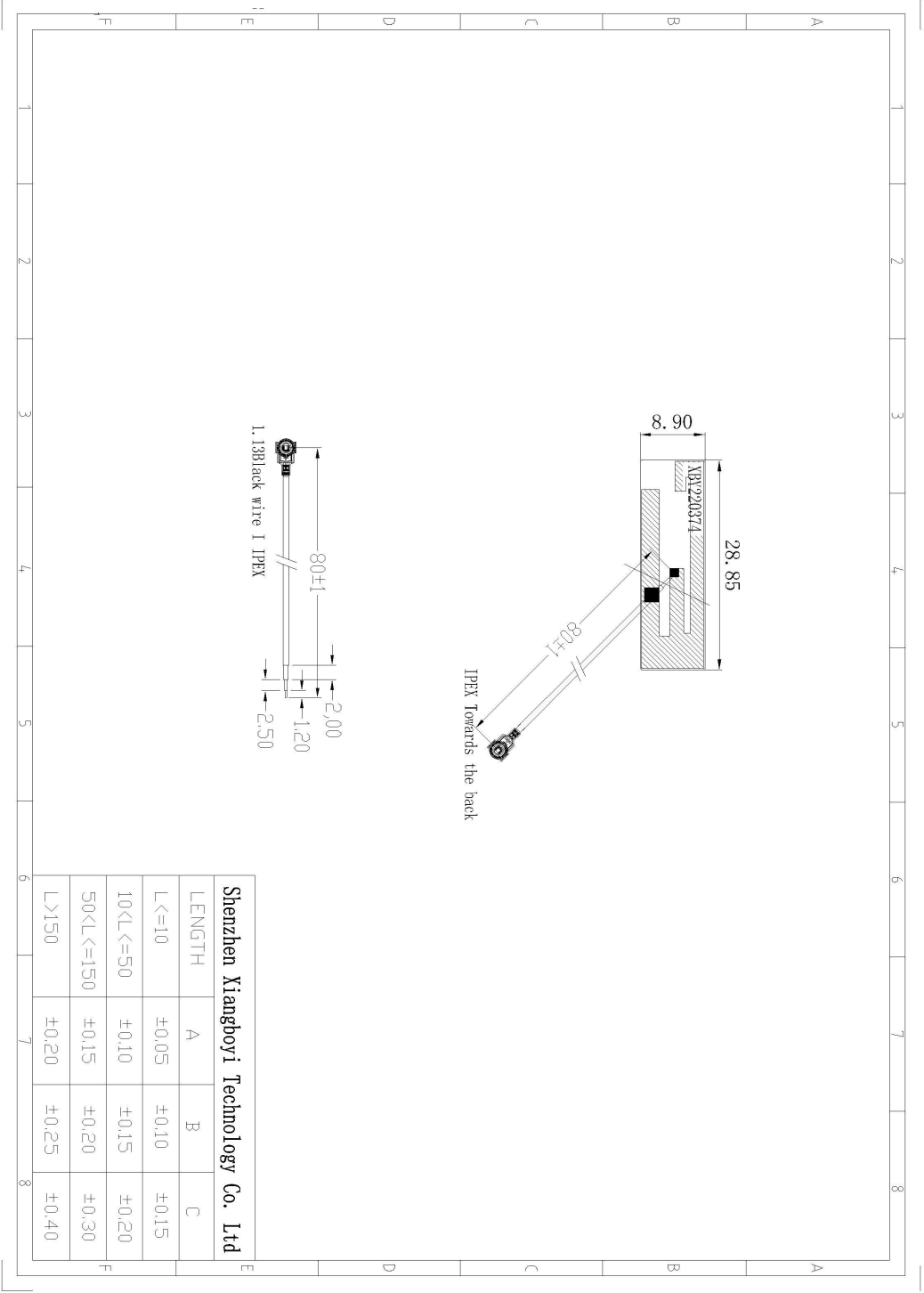
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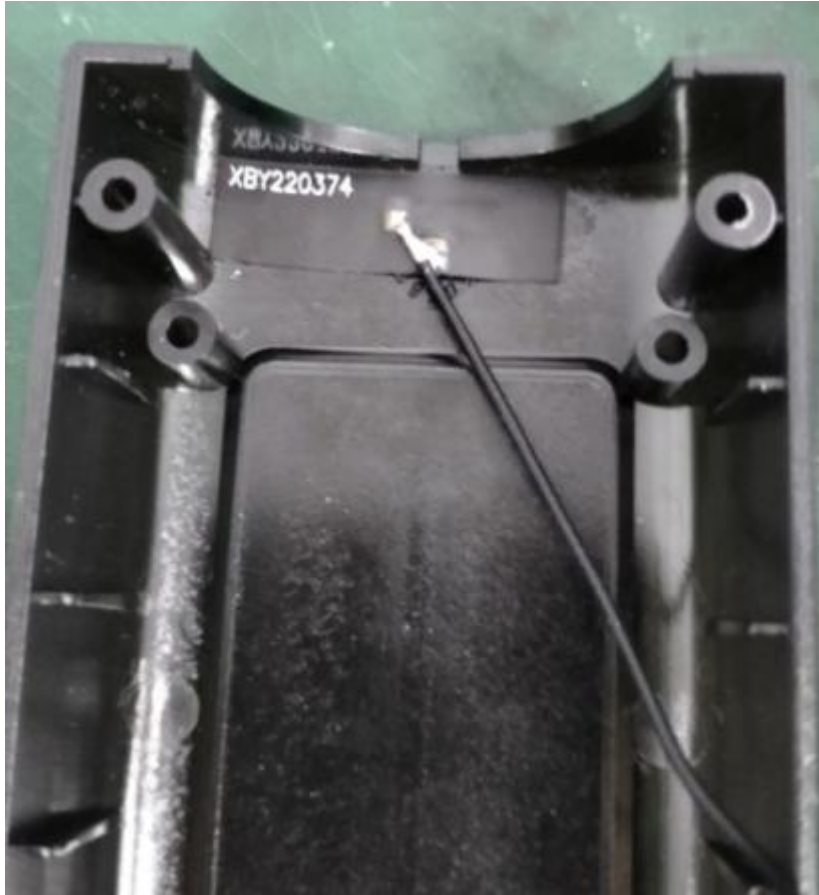
6 Engineering Drawing



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7. Physical Assembly Picture



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