

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	SHENZHEN FCAR TECHNOLOGY CO., LTD
Project	HD Mobile II
Antenna Model	XBY220570

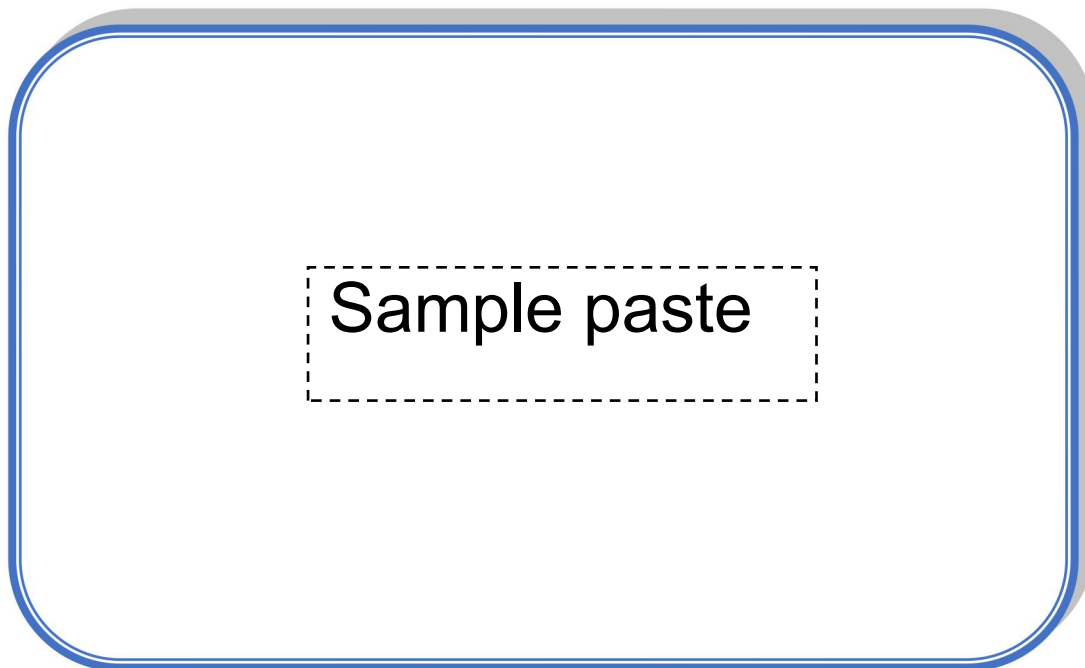
Shenzhen Xiangboyi Technology Co. Ltd

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.

Date : 2022/12/02



Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

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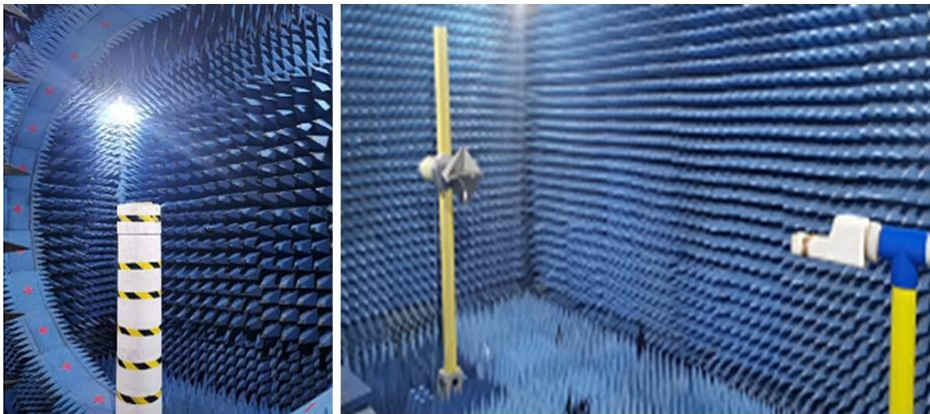
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1 Test System and Equipment

	Test items	equipment
1 : S parameter	<ol style="list-style-type: none"> 1. Return loss 2. VSWR 	Network analyzer: A338/A333/HP8753D
2 : Active test	<ol style="list-style-type: none"> 1. Transmitting power 2. Receiving sensitivity 	Comprehensive test instrument: Agilent 8960/ CMW500
3 : Radiation mode and gain	<ol style="list-style-type: none"> 1. Radiation mode 2. Gain 	<ol style="list-style-type: none"> 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	
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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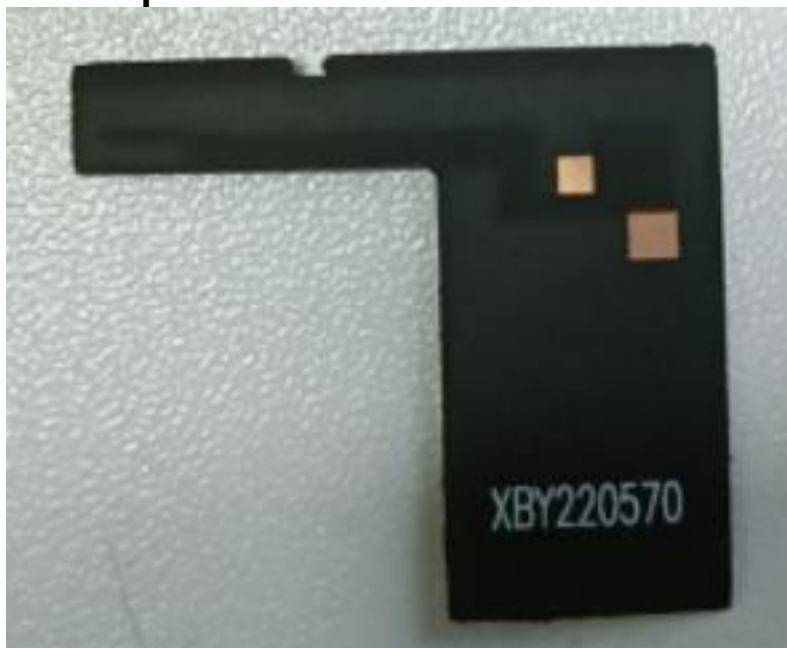
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3 Device Description

The whole machine photo



Antenna photo



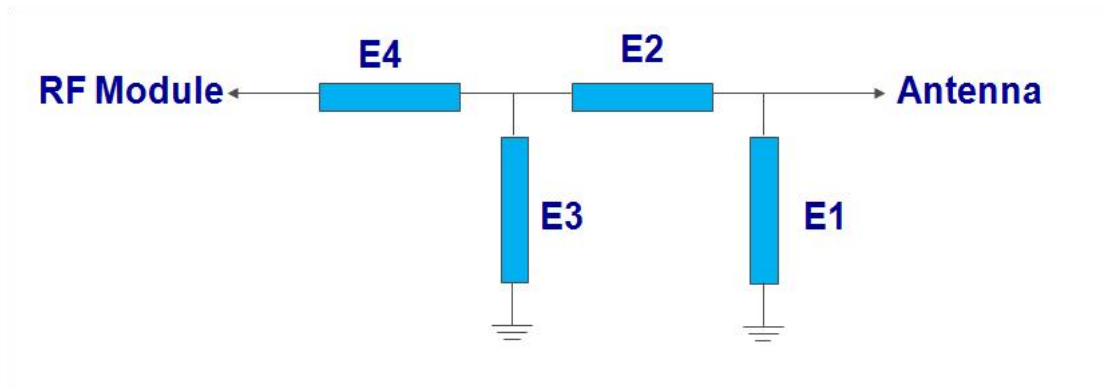
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4 Matching Circuits



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

Original match unchanged.

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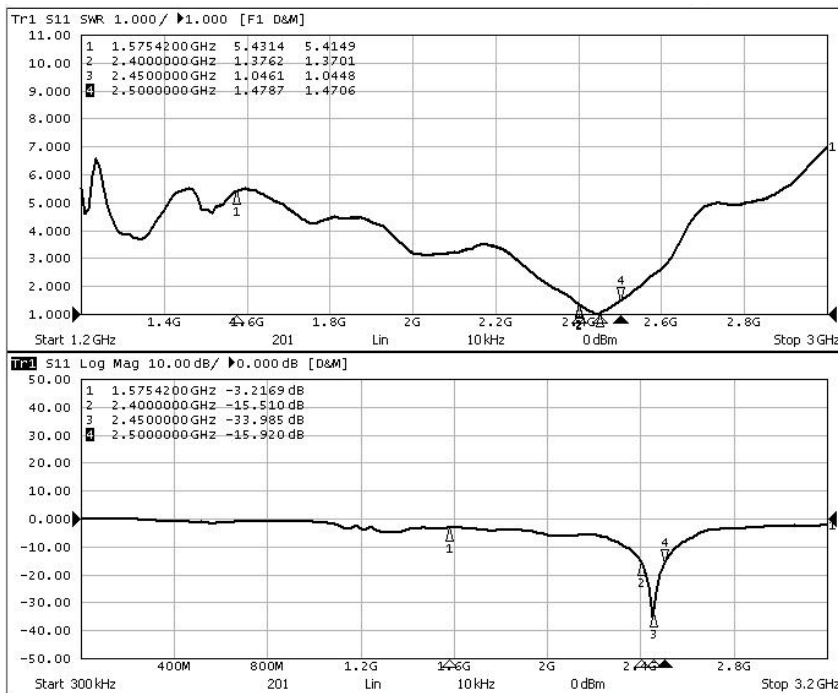
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5 Test Data

Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.81	2.23
2410	49.31	1.57
2420	48.49	2.01
2430	41.26	1.17
2440	48.76	2.08
2450	43.53	1.58
2460	48.47	1.94
2470	43.64	1.68
2480	43.73	1.79
2490	43.92	1.96
2500	47	2.09



WiF idirectional diagram; directivity diagram

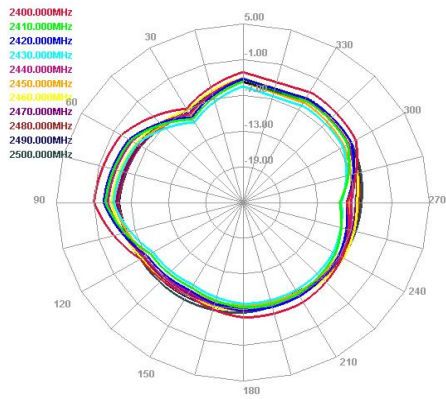
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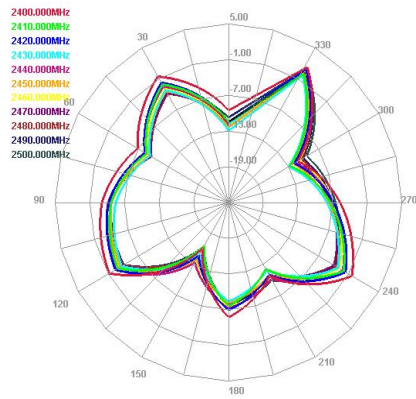
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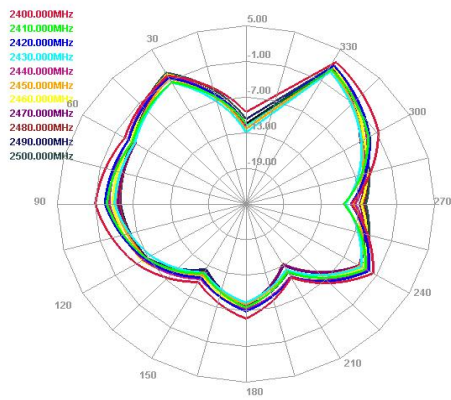
Horizontal



E1 Face



E2 Face



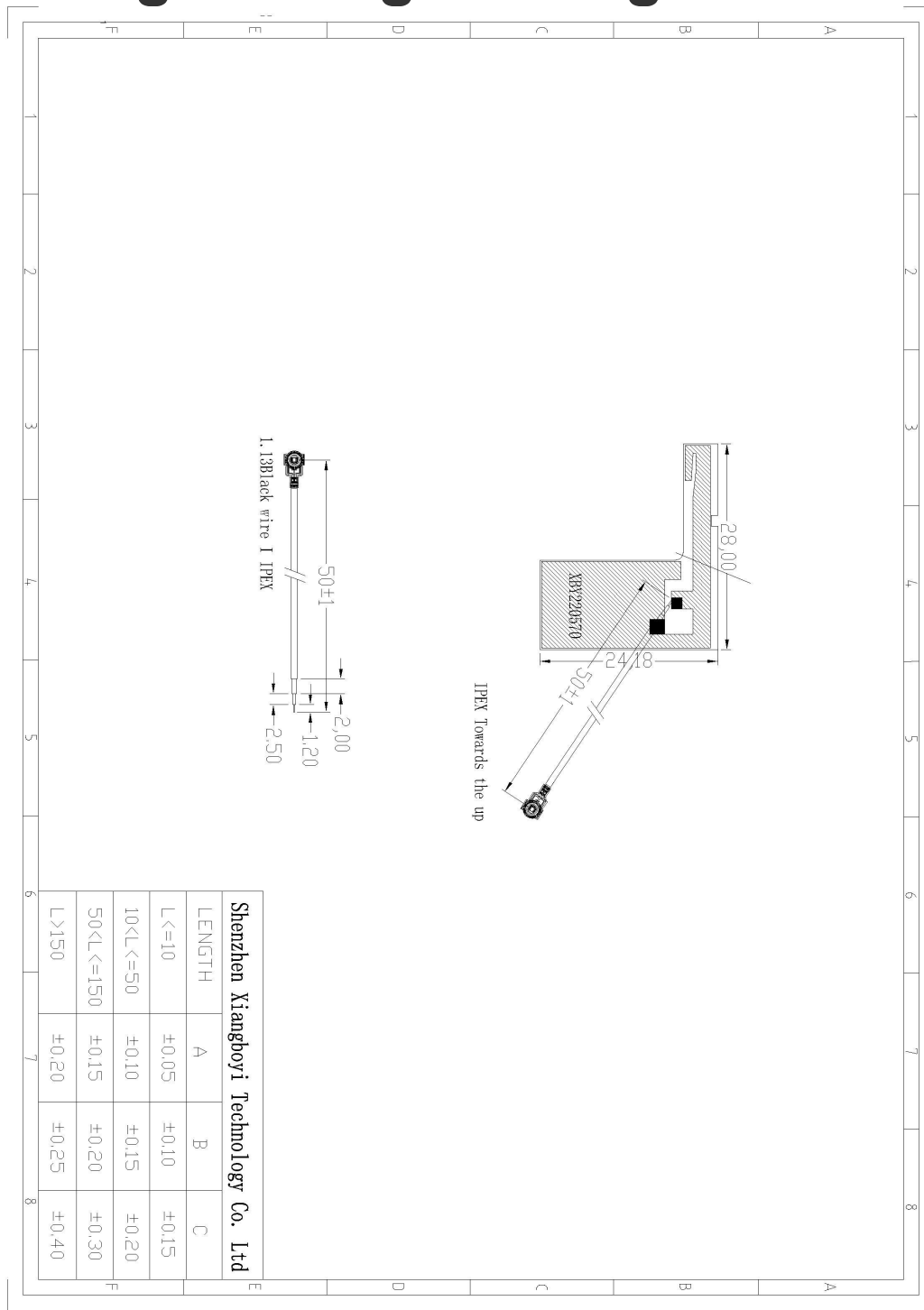
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6 Engineering Drawing



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7. Physical Assembly Picture



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