

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	Riding skills
Project	
Project NO	XBY230622-BT

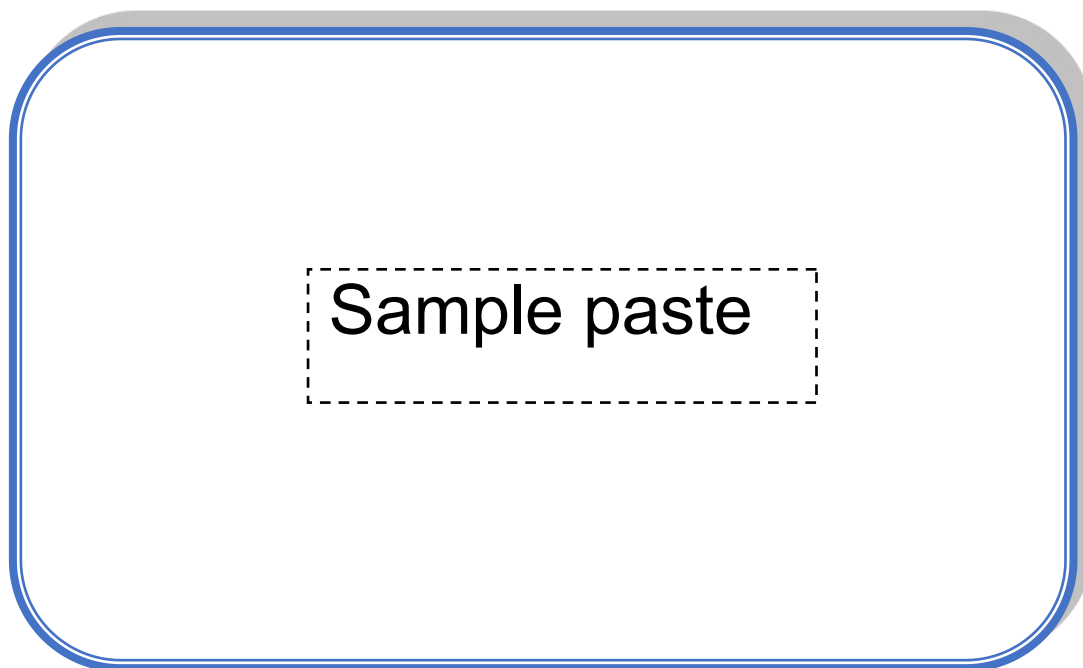
Shenzhen Xiangboyi Technology Co. Ltd

Date: 2023/8/5

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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 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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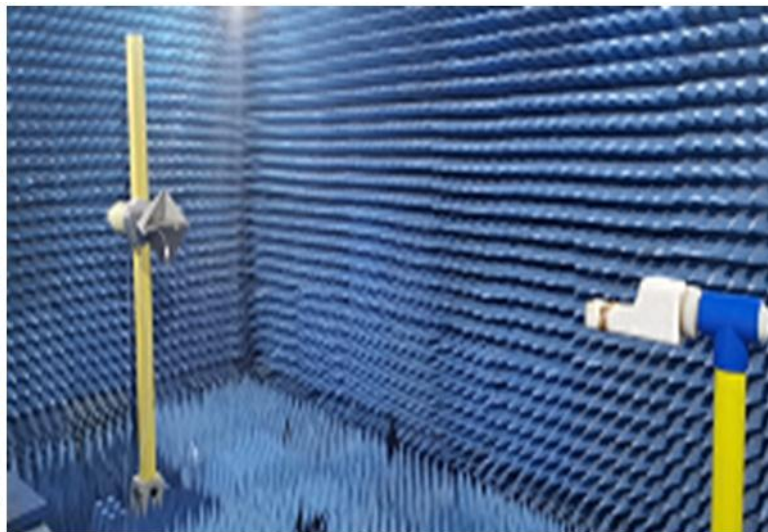
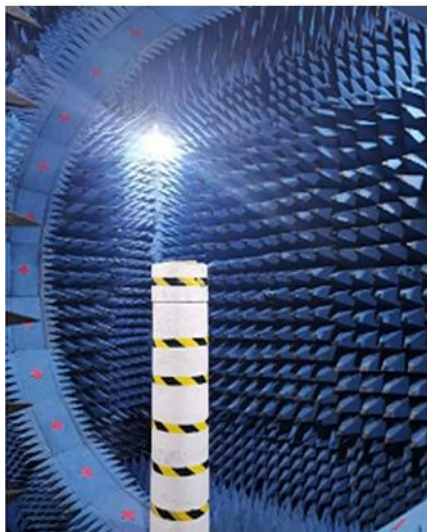
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1 Test System and Equipment

	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	BT:2400-2500Mhz	
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	

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3 Device Description

The whole machine photo



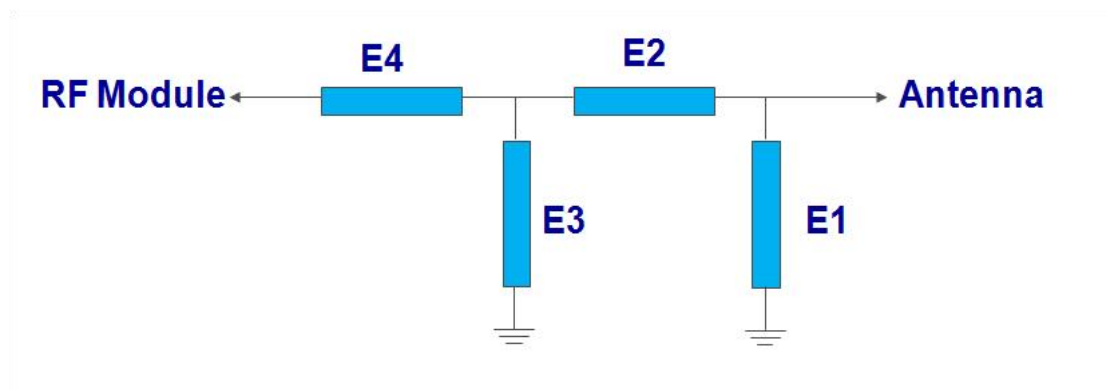
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4 Matching Circuits



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

Original match unchanged.

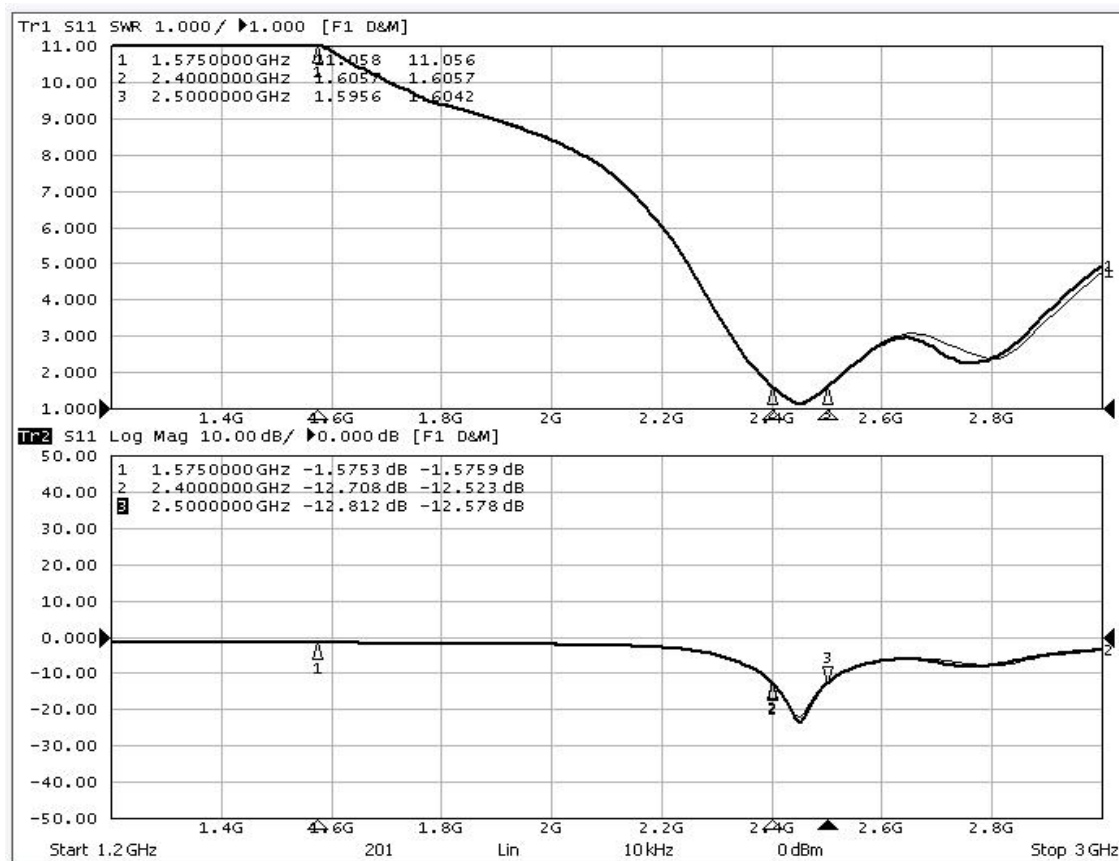
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5 Passive Test Data



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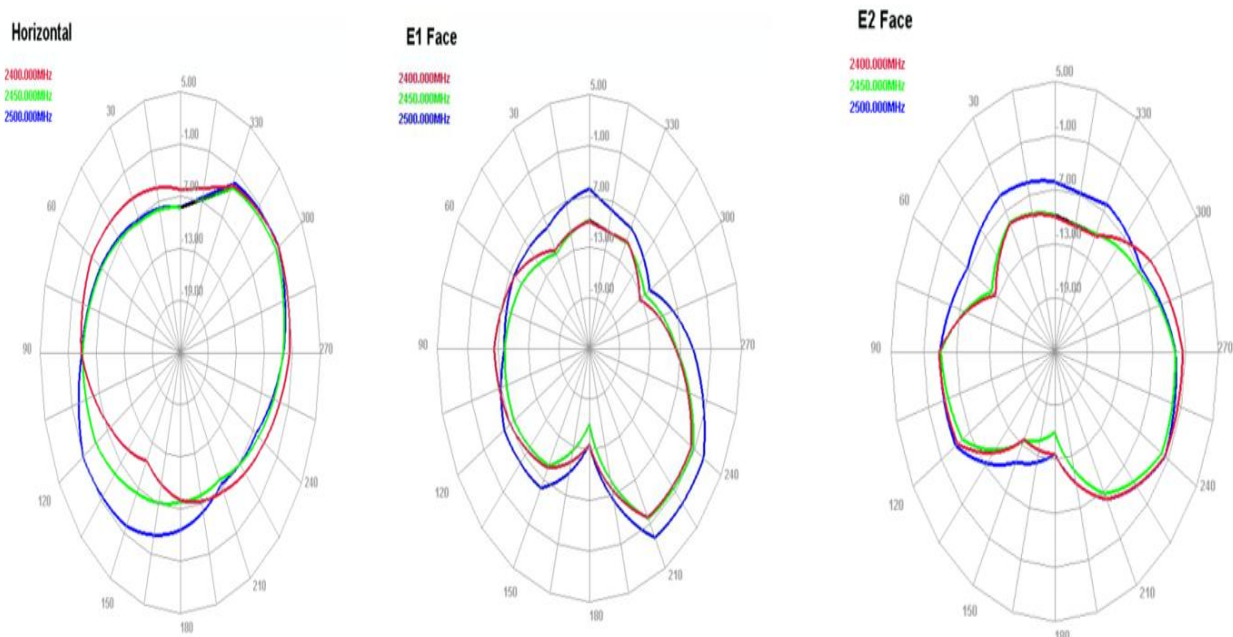
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BT天线效率，增益		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	33.56	-0.24
2450	34.65	0.21
2500	39.74	2.52

Radiationpattern



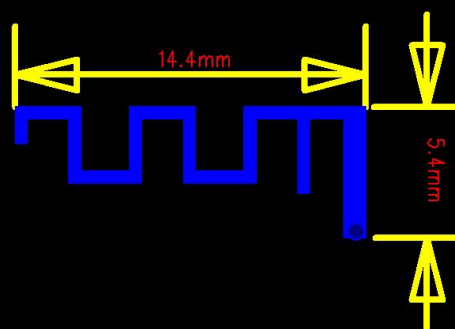
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6 Engineering Drawing



PCBA-plate: FR-4
PCBA-copper: 1oz
PCBA-impedance: 50 Ω

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7. Physical Assembly Picture



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