

Shenzhen Xiangbo Yi Technology Co., LTD

Shenzhen Xiangboyi Technology Co. Ltd

Specification acknowledgement

customer name	Tianjin ELCO
Project name /material number	The WIFI rubber rod antenna
Supplier material number	XBY240049

Shenzhen Xiangbo Yi Technology Co., LTD

Tel.: 0755-29369912 Fax: 0755-61624200

R & D Center: 101,11, Floor, Wencheng Building, Creative Park,

No.95, Yousong Road, Longhua District, Shenzhen City,

Production Base: 5 / F, Building B, Huazhi Valley, No.7,

Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City

Date:March,2024

Customer confirmation			
engineering	project	character	ratify

Confirm by the supplier			
structure	radio frequency	examine and verify	ratify

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1. Test the system and the equipment

	test item	equipment
1: Sparameter	1. Evolution loss 2. Standing-wave ratio	Network Analyzer A338 / A333HP8753D
2: Active testing		Integrated tester: Agilent 8960/CMW500
3: Passive test	1. Antenna efficiency 2. antenna gain	1. Dark room: 5X3X3m (ETS-3D) 2. Network analyzer: HP8753D



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2. Product description

Technical requirements	Technical index	remarks
Band	2.4G &5G	
Range Of Frequency	2400-2500Mhz;5150-5850Mhz;	
VSWR	2400-2500Mhz<2.0;5150-5850Mhz<2.0;	Center Frequency
Impedance	50Ω	
Polarization	Linear polarization	
operating temperatu re	-32°C /+55°C	
storage temperature	-55°C /+85°C	
Salt Fog	24h(24h alternating wet&dry)	
RoHS Comp liant	yes	

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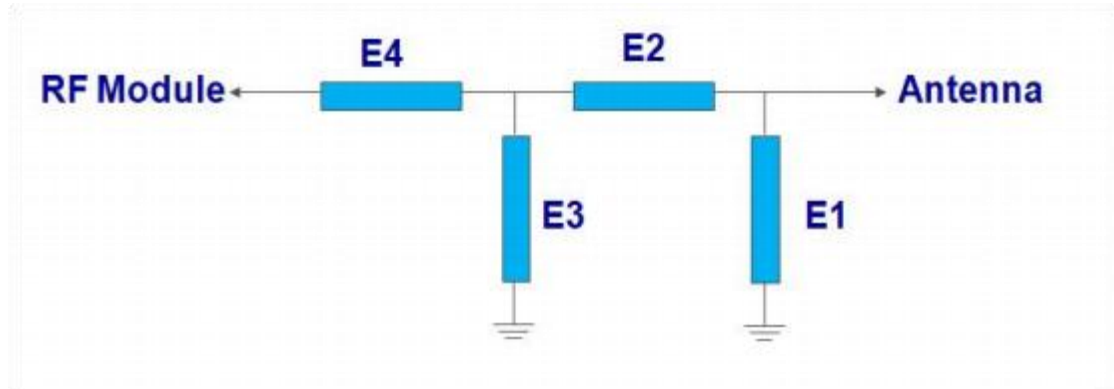
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3. Device Description

Antenna photo



4. Matching Circuits



building-out circuit

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

At present, our debugging has not changed the motherboard matching, that is, according to the matching on the motherboard has not changed.

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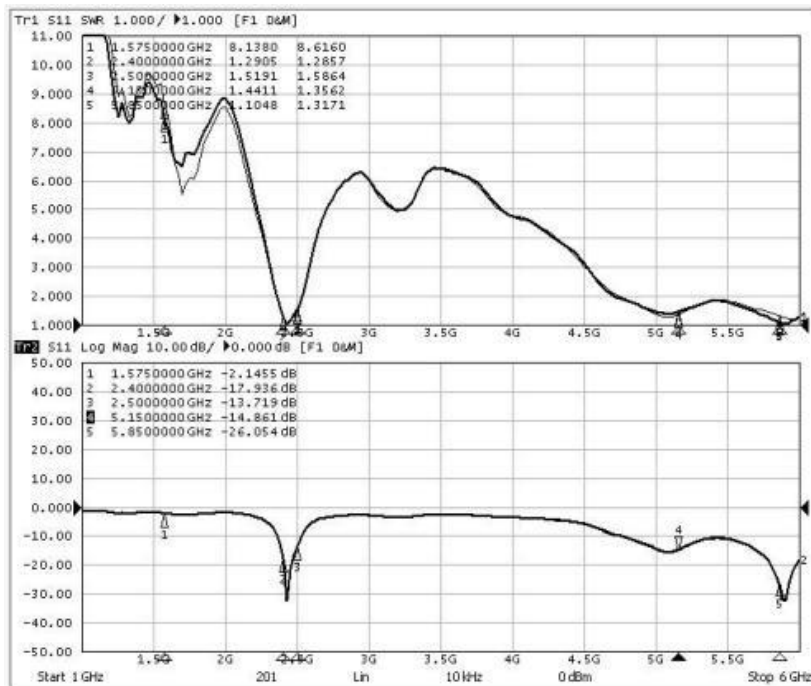
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5. test data TestData

Passive data

Freq	Gain	Effi	Freq	Gain	Effi
2400	0.22	34.83	5000	2.71	52.44
2410	0.3	35.78	5100	2.57	54.41
2420	0.51	37.31	5200	2.26	54.95
2430	0.58	37.58	5300	2.06	48.23
2440	0.66	37.84	5400	2.14	54.36
2450	0.74	38.01	5500	2.27	53.51
2460	0.8	37.68	5600	3.9	61.31
2470	0.92	38.14	5700	3.12	52.84
2480	1.07	39.26	5800	2.54	48.46
2490	1.1	38.92	5900	1.89	45.07
2500	1.07	38	6000	1.83	45.94

VSWR parameter

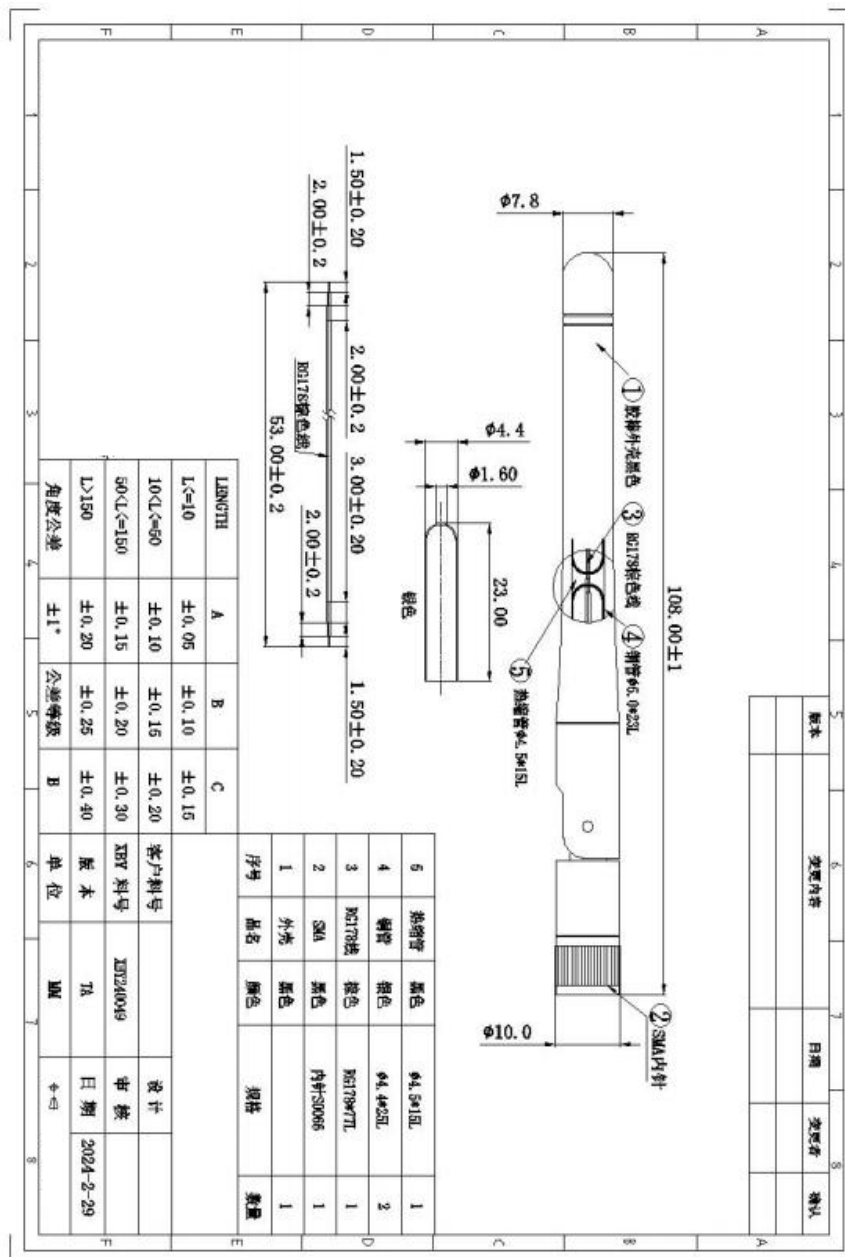


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6. EngineeringDrawing



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