

Shenzhen Zhenxing Industrial Manufacture Co., Ltd

Test Report

Approve Sheet

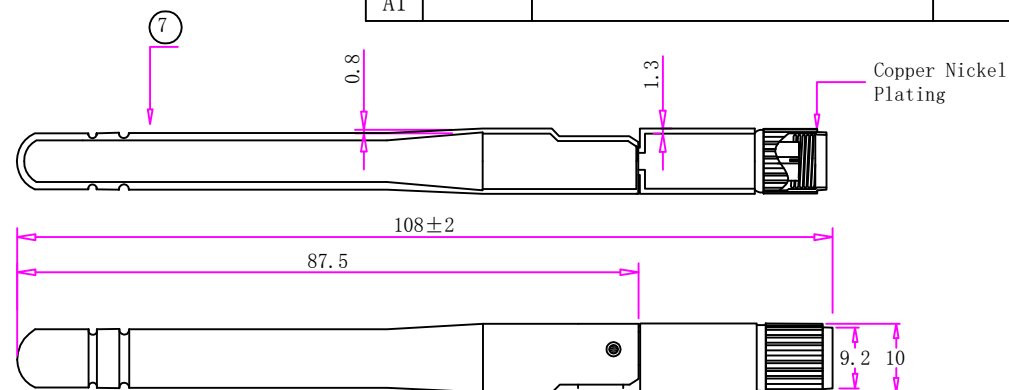
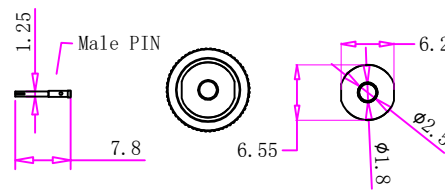
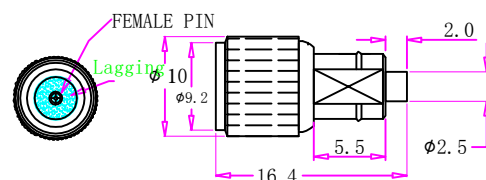
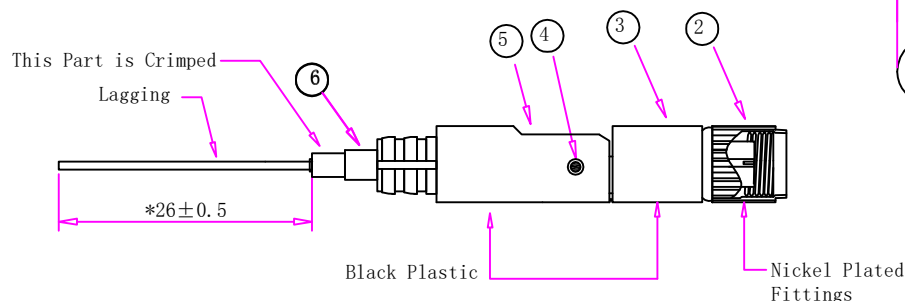
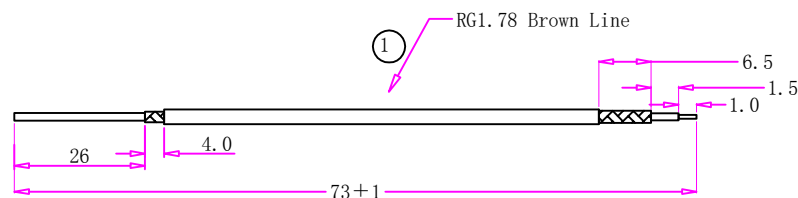
Product Specification Parameter List

SPECIFICATION+2. 4G antenna

DESCRIPTION	VALUE
Frequency range	2400-2500MHZ
Impedance	50 Ω
V.S.W.R	2.0 Max
Gain	2dBi
Radiation	Omni-directional
Radiating element	1/4 Wave Helical
Polarization	linear Vertical
Admitted power	1W
Connector	SMA
Operating temp	-10℃~+60℃
Storage temp	-10℃~+70℃

RoHS Compliant

REV	DATE	DESCRIPTION	NAME
A0			
A1			



Test Conditions:

Rated Voltage: AC 60V Withstand
Contact Impedance: 20- Ohm Voltage: AC200V
Insulation Impedance: 500 m-ohm Characteristic
Impedance: 50 Ohm

- Request: 1. Finished product must be 100% tested for conduction OK;
2. Finished products must be 100% fully inspected and OK;
3. Eco-friendly process;
4. ROHS compliant
Joint tension: 5KG~

FREQUENCY RANGE	2400-2500 MHz
Gain	2dBi
VSWR	<2.0: 1
Polarization	Linear. Vertical
Max power rating	50 W
Impedance	50 OHM

No.	Name	Description	Q'ty	Part No.
1	Cable	1.78Brown-48Tin-FEP L=73mm	1	1301-0054
2	SMA	2.4GZK-Copper Nickel Plating-10*6.5*16.4-Welding pin rivet	1	1101-0140
3	2.4G D-Base	6.5*9.4*19.7-Not showing the line-Black rubber	1	1201-0015
4	Rivets	1.6*3.8-Not showing the line-Black rubber	2	1201-0085
5	2.4G U-Base	6.5*9.32*28.8-Not showing the line-Black rubber	1	1201-0016
6	Copper	1.6*5.2*L24-WHITE	1	1701-0065
7	2.4G SRC	6.5*9.2*67.5-Not showing the line-Black rubber	1	1201-0017
8				
9				

	PART NAME		(UNIT)	(SCALE)	(REV)	(SIZE)
	Assemblage		mm		A0	A4
	Customer NO.		PRODUCT NAME: 2.4G Rubber Antenna-178 Brown		PRODUCT NO. 3030-0133	
	Design	Liu Mengzhu	Page 1 of 1		(ORIGINAL DATE) 2022-10-19	
	Check		Shenzhen Zhenxing Industrial Manufacture Co., Ltd			
	Approve					

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Test Conditions:		
Item	Test Conditions	Remark
Storage Environment	The temperature, humidity, and barometric pressure were tested without specification as follows : 1. Temperature: -30℃~+80℃ 2. Relative Humidity: 45%-85% 3. Pneumatic: 86kpa-106kpa	Positive electrical and mechanical properties normal
High and low temperature test	Perform 5 cycles between 70℃ and 40℃, then inspect the appearance quality under normal conditions for 1-2 hours.	The dimensions meet the specifications, The mechanical & electrical performance requirements should be met.
Resistance to constant humidity and heat testing.	Relative humidity of 95±3% and test temperature of 40℃. After a continuous exposure of 2 hours, the electrical performance of the specimen should be measured within 5 minutes after removal. The specimen should be inspected for appearance quality under normal conditions for 1-2 hours.	The dimensions meet the specifications, The mechanical & electrical performance requirements should be met.
Vibration testing.	Vibration frequency range: 10-55Hz; Displacement amplitude: 0.35mm; Acceleration amplitude: 50.0m/s; Sweeping cycle: 30 cycles.	Positive electrical and mechanical properties normal
Impact testing.	The object will be dropped freely three times from a height of 1 meter, along perpendicular axes.	Positive electrical and mechanical properties normal
Tensile strength	Testing the instrument's load-bearing capacity using a push-pull force gauge: ≥50N.	Positive electrical and mechanical properties normal
Voltage resistance.	1. Insulation spark voltage: 1.5KV 2. Sheath spark voltage: 1.5KV 3. Insulation-to-sheath withstand voltage: 0.5KV	Positive electrical and mechanical properties normal
Torque testing.	To test the fixed nut, use a torque wrench and perform a torque test by twisting it in the 360-degree direction. The tested value should be ≥2N.	There is no torque malfunction.

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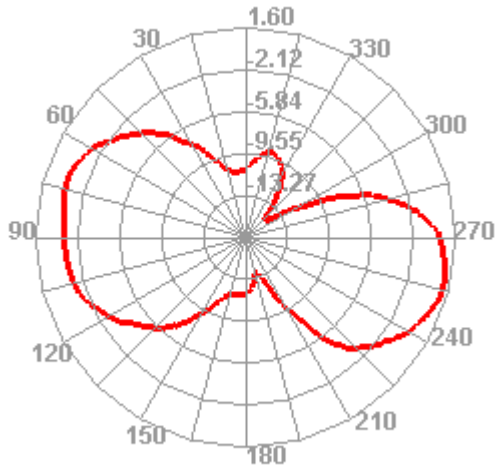
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产品驻波图:

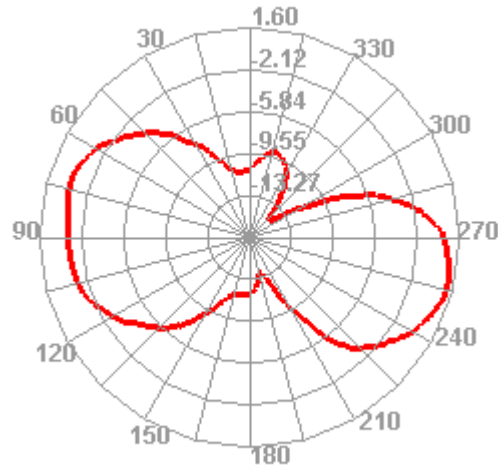


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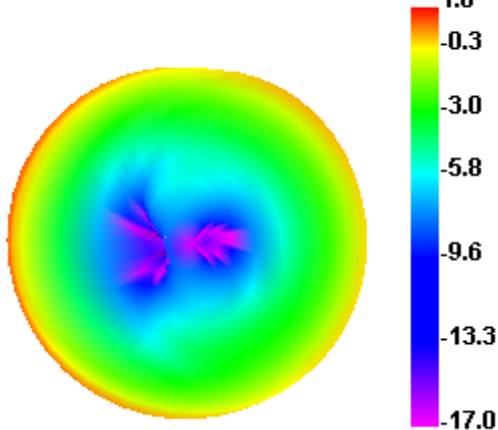
2500.000MHz E1



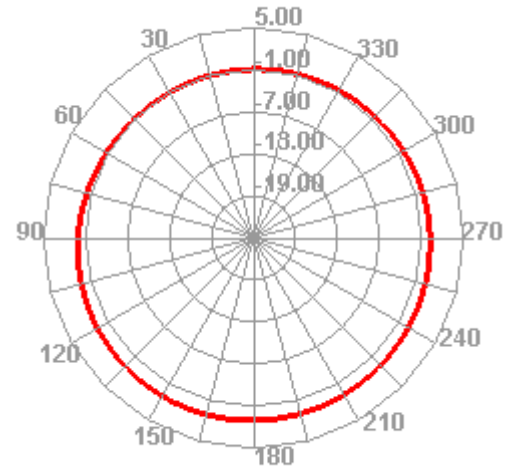
2500.000MHz E1



2500.000MHz



2500.000MHz H



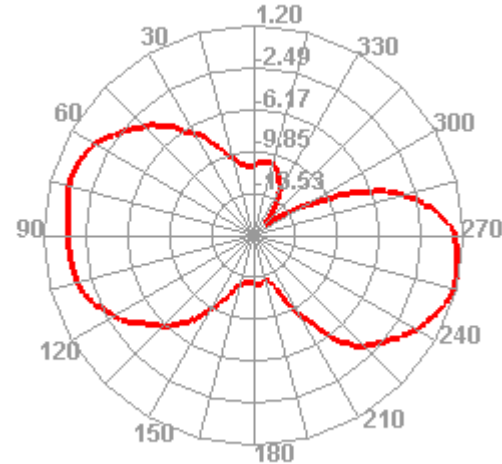
Passive Test For wifi

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	47.57	-3.23	0.07	-2.08	0.07	-17.55	47.06	46.33
2410	50.49	-2.97	0.29	-1.86	0.29	-17.84	47.2	46.63
2420	48.63	-3.13	0.19	-1.96	0.19	-18.34	47.32	46.53
2430	42.78	-3.69	-0.38	-2.53	-0.38	-19.05	47.08	46.39
2440	49.46	-3.06	0.22	-1.93	0.22	-18.4	47.26	46.55
2450	61.96	-2.08	1.2	-0.95	1.2	-17.21	48	47.41
2460	57.89	-2.37	0.95	-1.2	0.95	-17.28	48.03	47.34
2470	56.11	-2.51	0.91	-1.24	0.91	-17.35	48.08	47.47
2480	61.54	-2.11	1.4	-0.75	1.4	-16.99	48.2	47.68
2490	69.12	-1.6	2.02	-0.13	2.02	-16.49	48.41	47.89
2500	62.81	-2.02	1.6	-0.55	1.6	-16.99	48.36	47.93
2510	57.32	-2.42	1.23	-0.92	1.23	-17.39	48.17	47.66

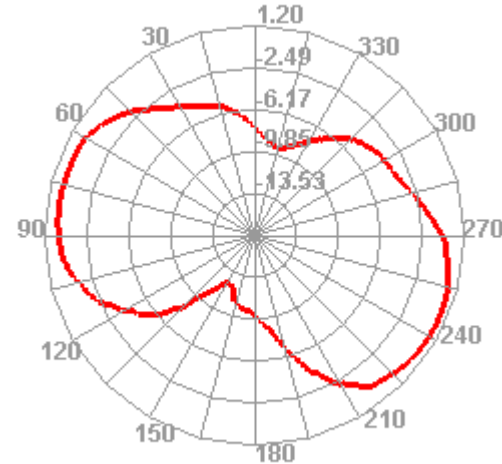
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2520	58.07	-2.36	1.23	-0.92	1.23	-17.13	48.09	47.68
2530	60.32	-2.2	1.4	-0.75	1.4	-16.68	48.03	47.56
2540	53.74	-2.7	0.89	-1.26	0.89	-16.94	47.97	47.54
2550	51.79	-2.86	0.75	-1.4	0.75	-16.98	48.04	47.63

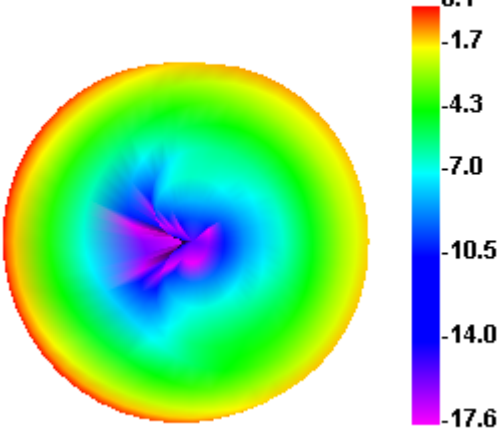
2450.000MHz E1



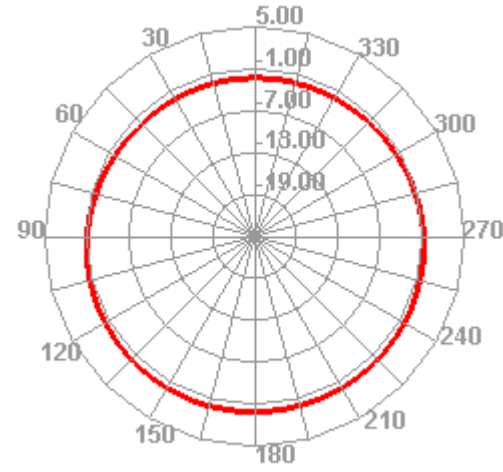
2450.000MHz E2



2400.000MHz



2400.000MHz H



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