



SPECIFICATION FOR APPROVAL

Customer Name: Shenzhen Juhong Technology Co., Ltd

Product Model: JT101H-A05

Customer P/N: Y020104010180

XINHENG YANG P/N: CP. 21. 0000224

SPECIFICATIONS: PCB天线丝印(XHY-JT079H-A03P, A0092-WIFI-V1.0)31.5*14.4mm RF4 0.6 板材
单面黑色、白色丝印+反面贴2.0厚双面带胶泡棉垫+同轴线1.13双锡线黑色
L=100mm 带一代端子

Production date: 2026. 06. 16

Sample Version: R1

(XINHENG YANG)		
(FICTION)	(SE)	(R&D)
(Customer)		
(PUR)	(SE)	(R&D)

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Index

一、	(Cover)	1
二、	(Index)	2
三、	(Change history)	3
四、	(The basic parameters)	4
五、	(TestEquipment & Conditions)	5
六、	(Performance testing)	6-9
七、	(Product Drawing)	10
八、	(RoHS)	11
九、	(Product packaging instructions)	11



三、Change history

Number	Effective date	Change record
R1	2026.06.16	Initial release



四、The basic parameters

A. Electrical Characteristics	
Frequency	2400MHZ-2500MHZ 5150MHZ-5850MHZ
VSWR	< 3
Avg Efficiency	2400MHZ-2500MHZ > 40% 5150MHZ-5850MHZ > 50%
Polarization	Linear
Peak Gain	2400MHZ-2500MHZ: 4. 21dBi 5150MHZ-5850MHZ: 4 13dBi
B. Material & Mechanical Characteristics	
Material of Radiator	PCB BLACK
Connector Type	One generations $\Phi 1.13$ L=100MM Black
Dimension	31.5MM*14.4MM $\pm$ 0.15MM
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 20°C ~ + 60 °C



五、Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

main performance:

Frequency range: 400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite).



六、(Test Report)

Those specifications were specially defined for CT040M-B06 model.

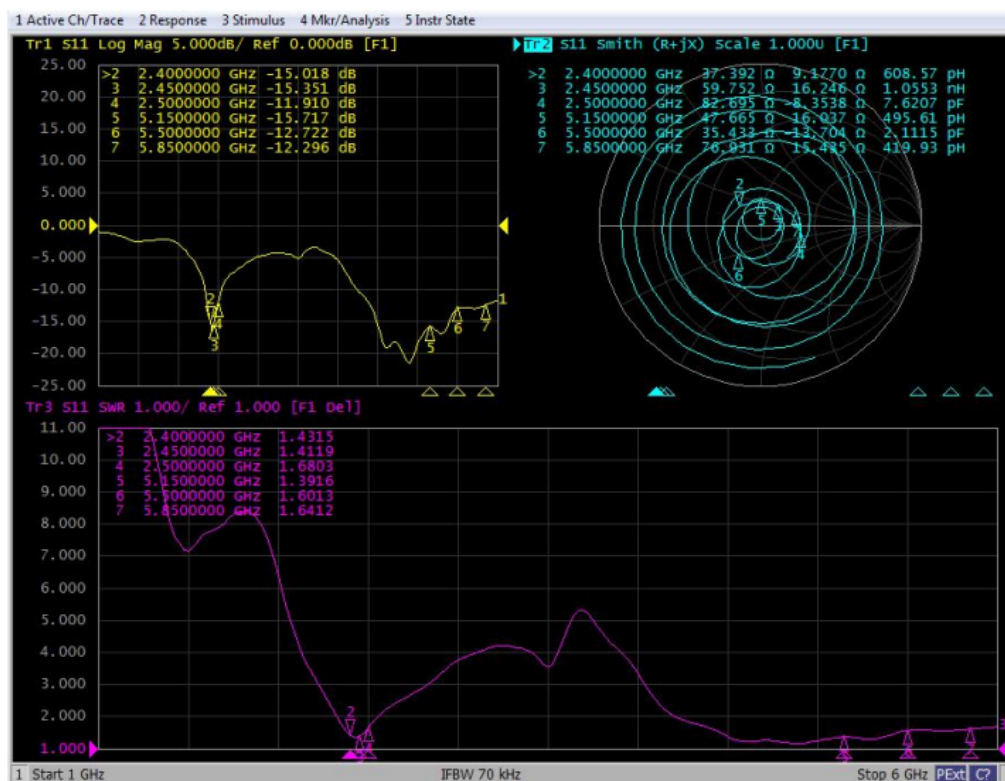
1 . VSWR

1. Measuring Method

A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR.

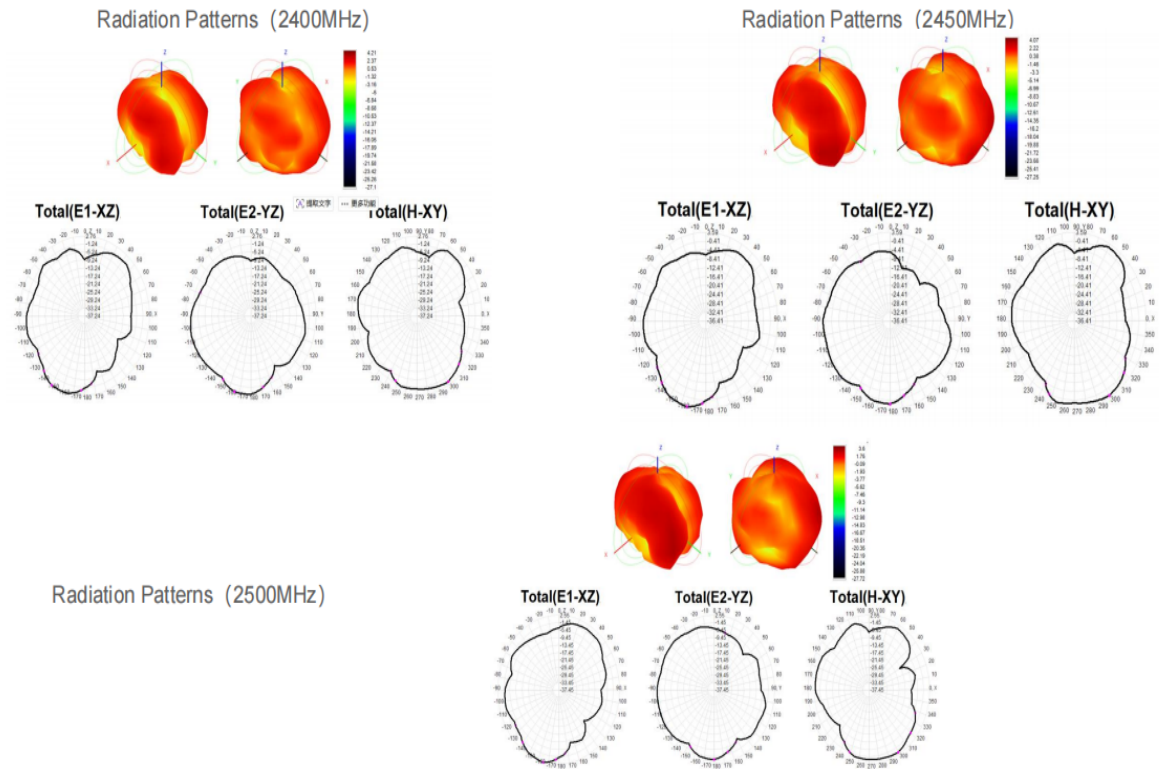
Keeping this jig away from metal at least 20cm

2. Measurement frequency points and VSWR value



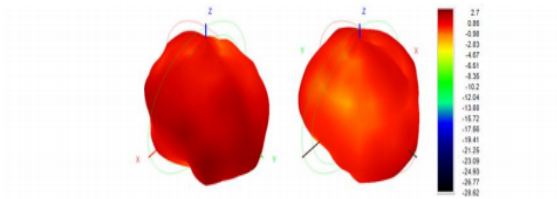
3. 2D/3D field pattern diagram

2400MHZ 2450MHZ 2500MHZ

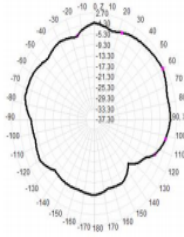


5150MHZ 5150MHZ 5850MHZ

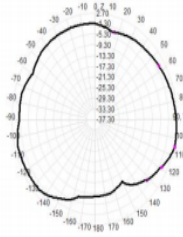
Radiation Patterns (5150MHz)



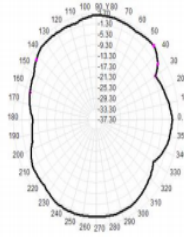
Total(E1-XZ)



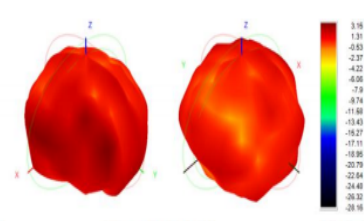
Total(E2-YZ)



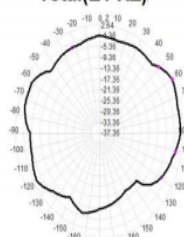
Total(H-XY)



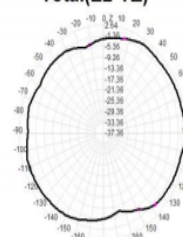
Radiation Patterns (5500MHz)



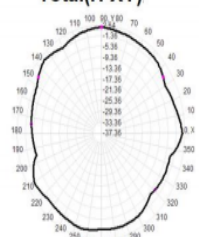
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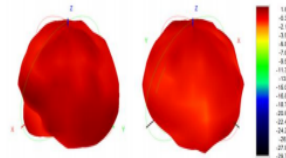
Total(E2-YZ)



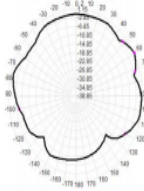
Total(H-XY)



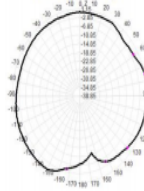
Radiation Patterns (5850MHz)



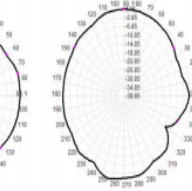
Total(E1-XZ)



Total(E2-YZ)



Total(H-XY)

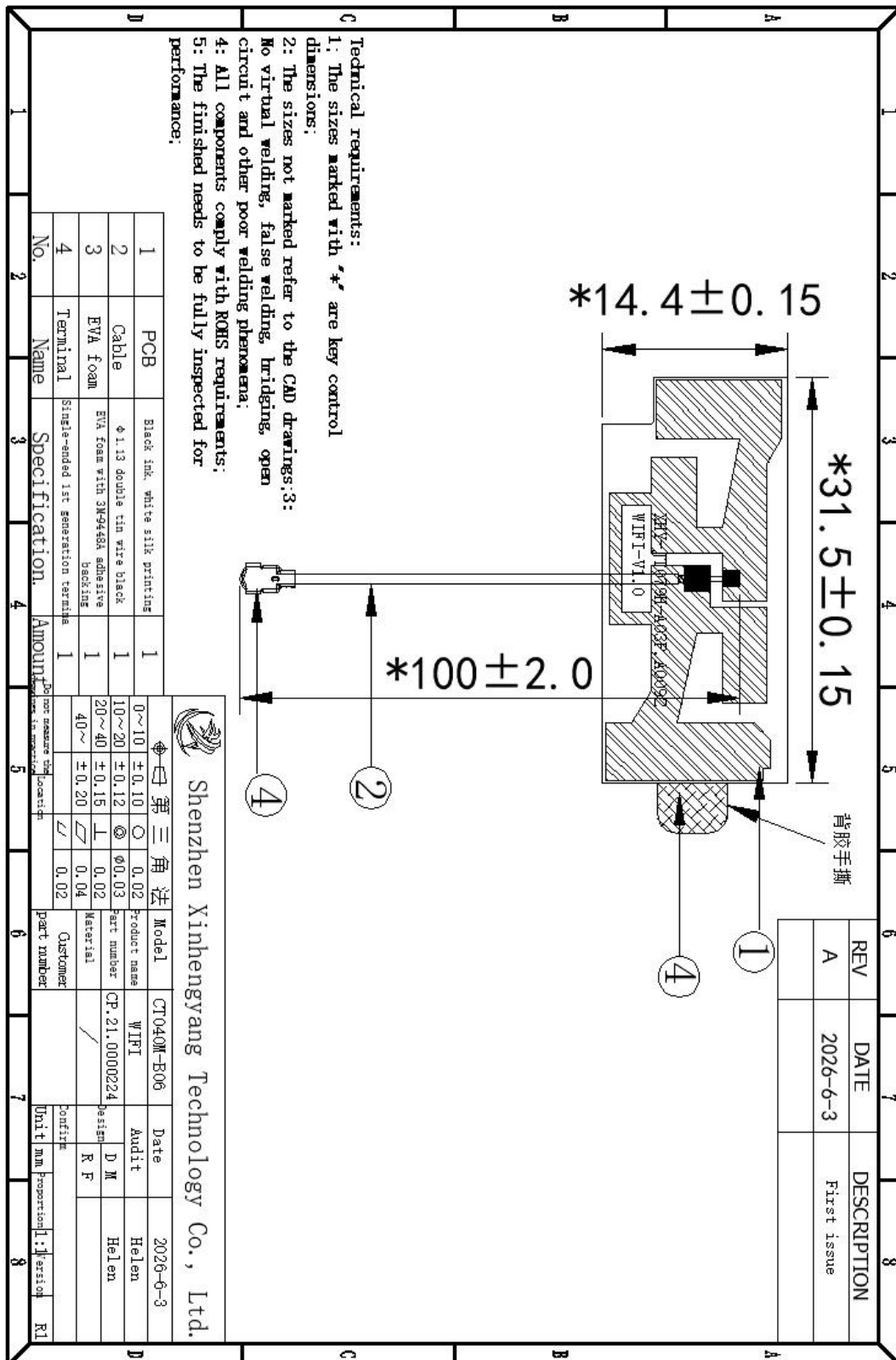


4. Passive efficiency & Gain

Passive Test For 2400-2500MHz		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400.0	55.06	4.21
2410.0	54.88	4.09
2420.0	57.38	4.01
2430.0	57.82	3.89
2440.0	58.49	3.86
2450.0	59.87	4.07
2460.0	58.12	4.07
2470.0	58.75	4.06
2480.0	56.57	3.83
2490.0	56.78	3.77
2500.0	56.21	3.60

Passive Test For 5150-5850MHz					
Freq	Effi	Gain	Freq	Effi	Gain
(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)
5150.0	61.89	2.70	5525.0	58.87	2.94
5175.0	63.07	2.88	5550.0	67.48	3.81
5200.0	61.53	2.89	5575.0	67.89	3.74
5225.0	63.58	3.40	5600.0	69.47	3.74
5250.0	65.83	3.52	5625.0	69.77	3.94
5275.0	68.96	2.88	5650.0	67.28	4.13
5300.0	68.47	2.70	5675.0	67.77	3.99
5325.0	65.25	2.48	5700.0	66.12	3.42
5350.0	65.07	2.50	5725.0	70.99	3.46
5375.0	61.00	2.42	5750.0	68.64	3.32
5400.0	58.49	1.99	5775.0	68.59	2.75
5425.0	66.39	2.75	5800.0	64.07	2.65
5450.0	65.04	2.78	5825.0	53.75	1.75
5475.0	68.78	2.82	5850.0	57.41	1.53
5500.0	65.58	3.15			

七、 (Product Drawing)





八、RoHS

Antennameets CP. 21. 0000224 RoHS requirements See electronic file for details.

九、Product packaging instructions

A. packing should meet the moistureproof, vibration, pressure and mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.

*****END*****