



深圳市鑫恒阳科技有限公司

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承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name: _____

产品型号 Product Model: _____ C102

客户料号 Customer P/N : _____

鑫恒阳料号 XINHENG YANG P/N: _____ CP. 04. 801150001

产品规格 SPECIFICATIONS: WIFI FPC antenna + 1.13 generation
terminal L=46MM

制作日期 Production date: _____ 2023/1/3

封样版本 Sample Version: _____ V1

生产厂商: 深圳市鑫恒阳科技有限公司

深圳地址: 深圳市南山区西丽创盛路 1 号康和盛大厦 7A-909

Manufacturer: Shenzhen Xinhengyang Technology Co., Ltd.

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Number	Effective date	Change record
V1	2023/1/3	Initial release



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一、The basic parameters:

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ --
VSWR	< 2.0
Avg Efficiency	>54%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2.4G:3.13dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black
Cable Type	Wire diameter: 1.13 L=46MM
Connector Type	First generation terminal
Dimension	/
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 30 °C ~ + 70 °C



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二、Electrical Specification :

Those specifications were specially defined for C102 model.

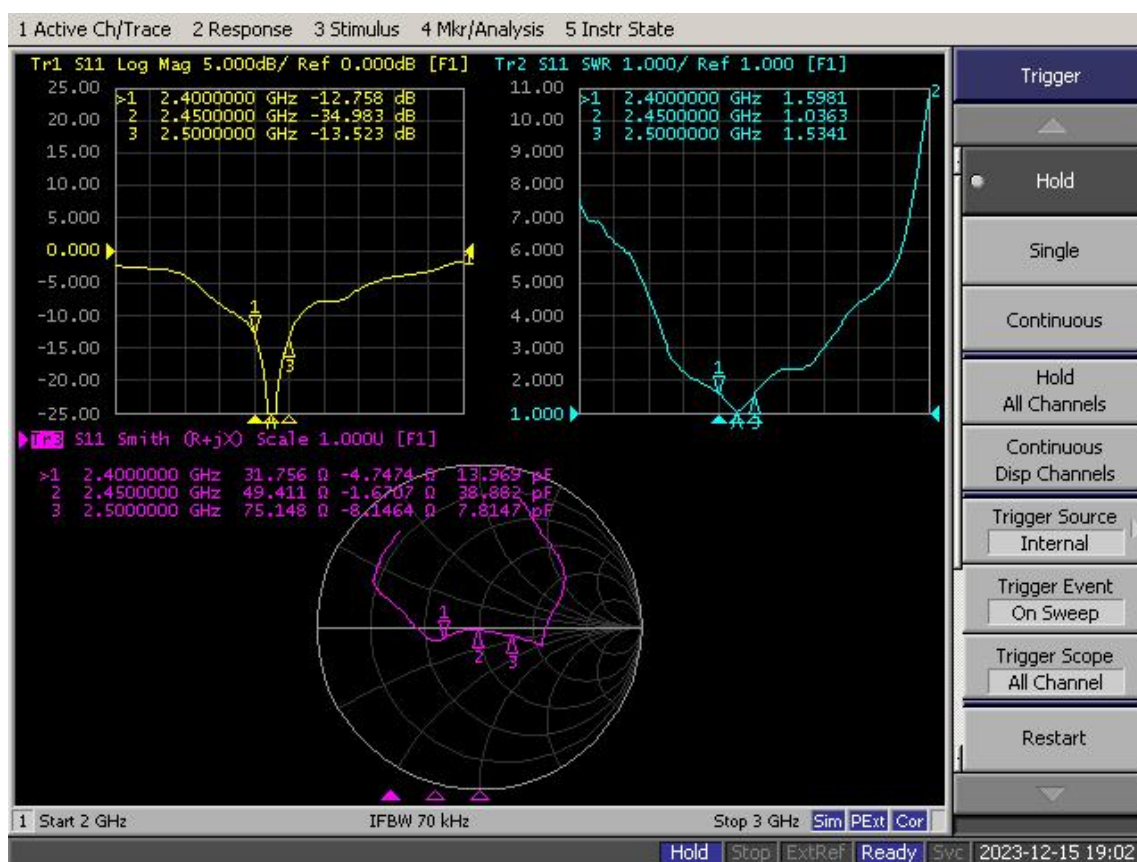
三、VSWR

1 Measuring Method

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

2.Keeping this jig away from metal at least 20cm

2 Measurement frequency points and VSWR value





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四、Anechoic chamber

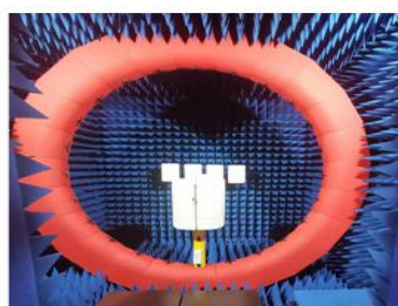
Introduction:

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 :

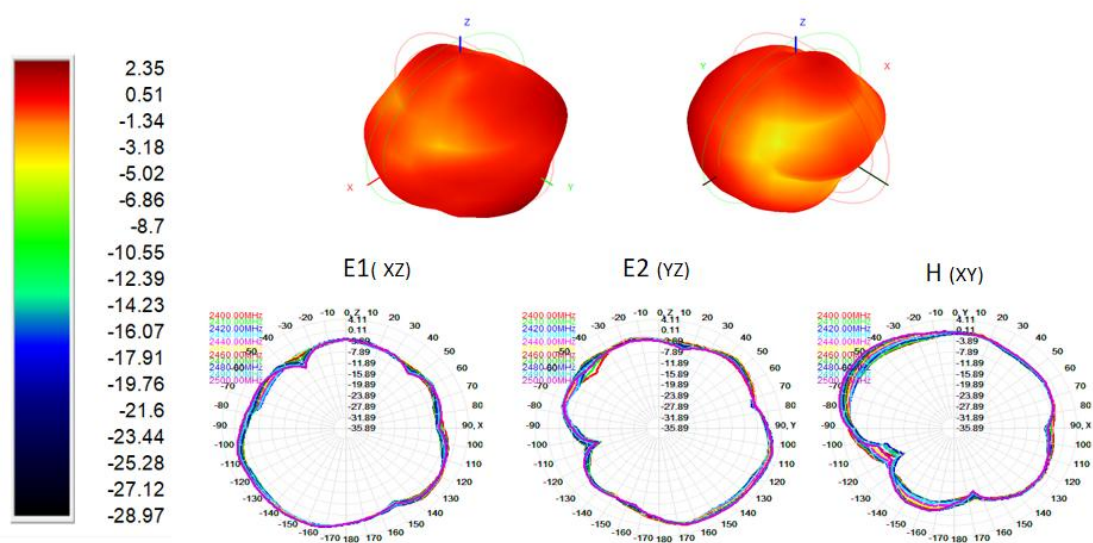
Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)



五、Gain table of Antenna

无源 3D&2D 场型图 Passive 3D&2D field diagram

3D field diagram for 2420MHz



无源效率增益 Passive efficiency gain



2400MHZ-2500MHZ		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	55.56	2.00
2410	56.60	2.08
2420	55.24	2.35
2430	55.05	2.56
2440	56.50	2.75
2450	58.58	2.83
2460	59.97	2.89
2470	60.53	2.96
2480	61.87	2.99
2490	63.47	3.02
2500	65.21	3.13

六、Antenna Dimensions





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Antenna CP. 04. 801150001 meets RoHS requirements.

八、 **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*****