



深圳市鑫恒阳科技有限公司

<https://www.xhy-2008.com>

承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name: 深圳市积加创新技术有限公司

产品型号 Product Model: CB160D

客户料号 Customer P/N: _____

鑫恒阳料号 XINHENGYANG P/N: CP. 04. 4002100050 CP. 03. A002100050

产品规格 SPECIFICATIONS: WiFi FPC 天线+0.81 L=52MM

制作日期 Production date: 2024. 1. 16

封样版本 Sample Version: V1

鑫恒阳 (XINHENGYANG)		
编制 (FICTION)	结构 (Structure)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

生产厂商: 深圳市鑫恒阳科技有限公司

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一、基本参数

A. Electrical Characteristics	
Frequency	2400MHZ-2500MHZ 5150MHZ-5850MHZ
VSWR	< 2.0
Avg Efficiency	>50%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2400MHZ: 2.27dBi 5850MHZ: 3.07dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black.
Cable Type	一代端子
Connector Type	线径:0.81/L =52MM
Dimension	/
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 30 °C ~ + 70 °C



二、电性规格

Those specifications were specially defined for CB160D model.

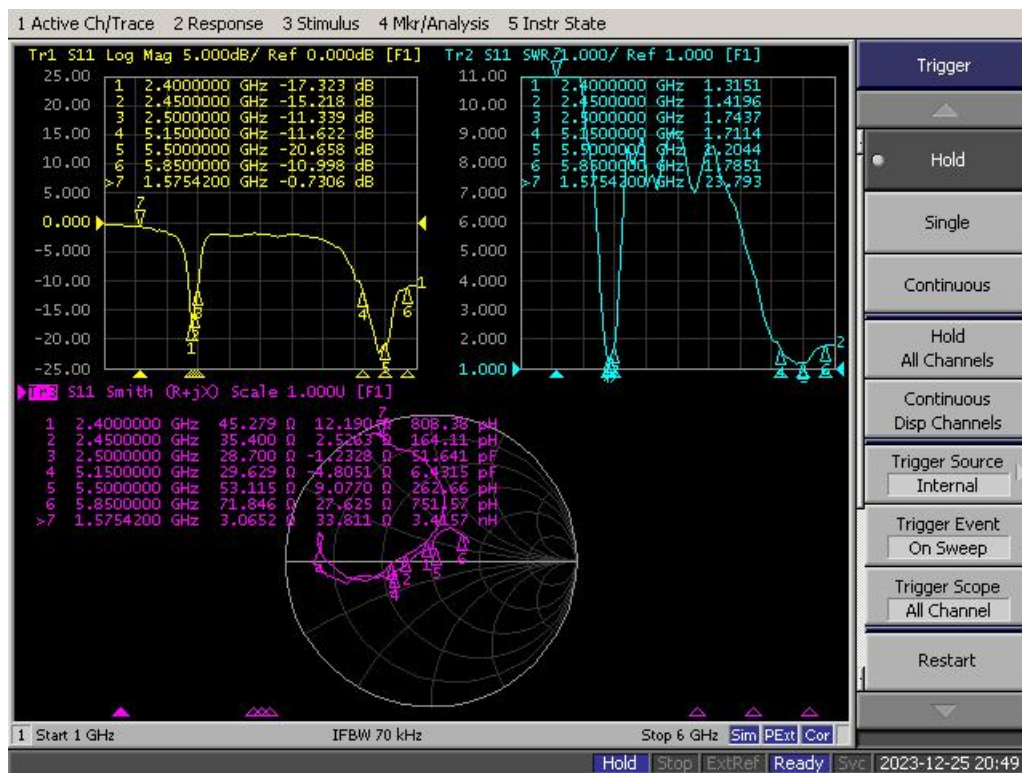
三、VSWR

1 测量方法

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 测量频率点和驻波比





四、 暗室简介

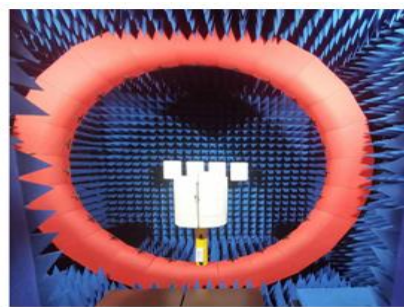
Introduction:

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.

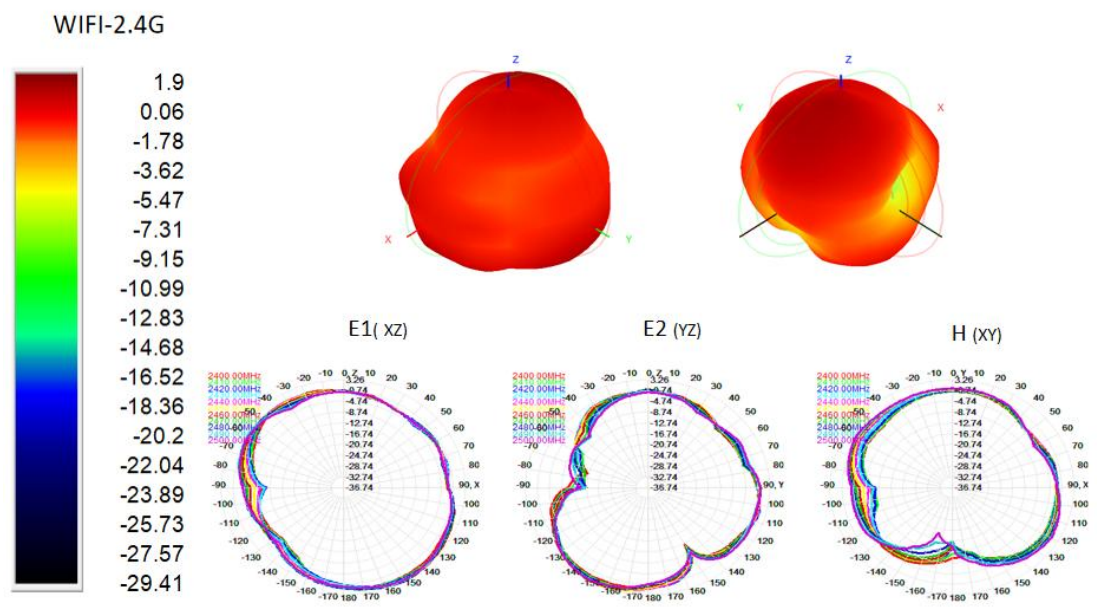
main performance :

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)

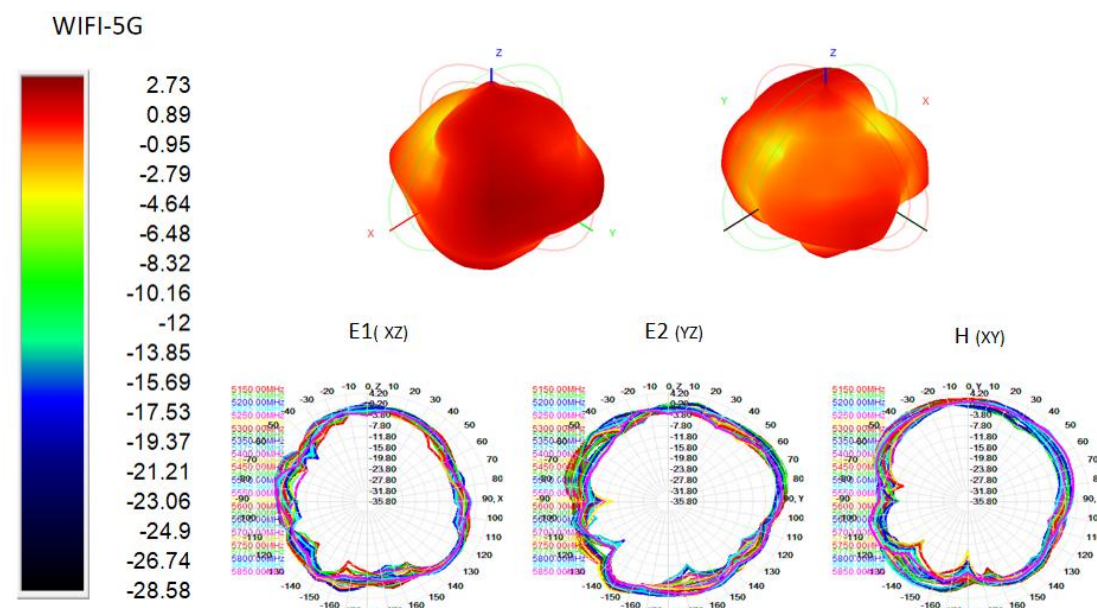


五、天线性能

无源场型图-2400MHZ-2500MHZ



无源场型图-2400MHZ-2500MHZ





无源效率增益

2.4G+5.8G					
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	58.99	1.75	5250	52.37	2.31
2410	60.44	1.79	5300	53.46	2.35
2420	62.07	1.83	5350	55.61	2.42
2430	63.35	1.85	5400	57.46	2.45
2440	63.46	1.92	5450	58.81	2.59
2450	64.57	1.96	5500	60.25	2.82
2460	64.65	1.99	5550	62.24	3.13
2470	65.24	2.11	5600	59.43	3.07
2480	65.76	2.13	5650	58.86	2.74
2490	66.31	2.24	5700	55.75	2.65
2500	66.39	2.27	5750	55.43	2.46
5150	50.15	2.15	5800	54.36	2.39
5200	51.24	2.23	5850	53.29	2.31

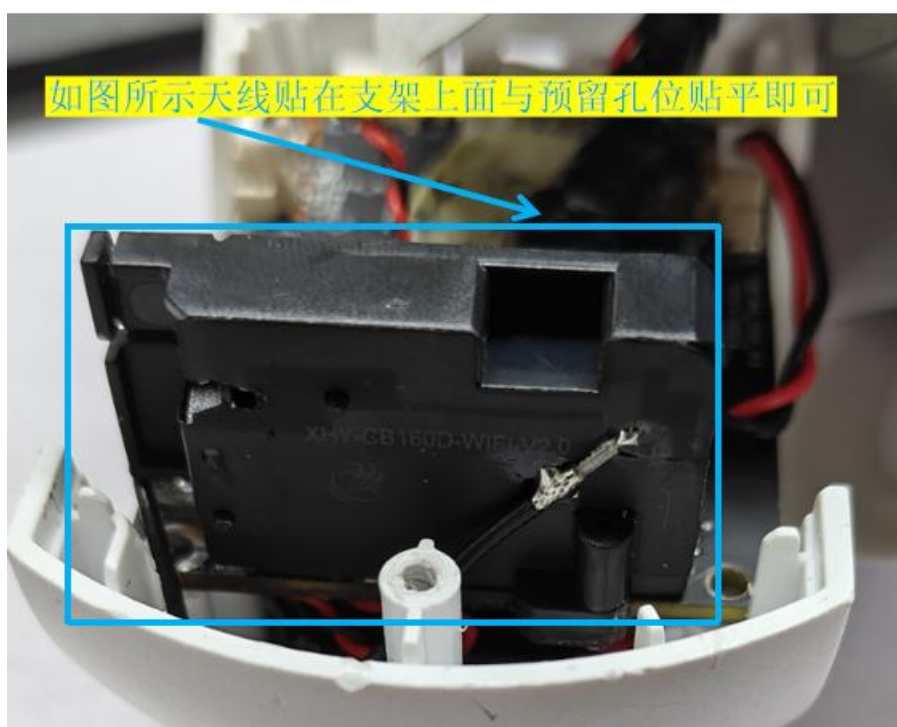
OTA 有源

2.4G			5G					
BAND	TRP (dBm)	TIS (dBm)	BAND	TRP (dBm)	TIS (dBm)	BAND	TRP (dBm)	TIS (dBm)
1	17.13	-85.89	36	15.32	-75.06	157	15.08	-75.92
6	16.24	-84.79	48	16.14	-74.89	161	14.89	-75.53
11	15.65	-87.28	149	13.92	-73.65	165	14.56	-41.15

六、机台图片

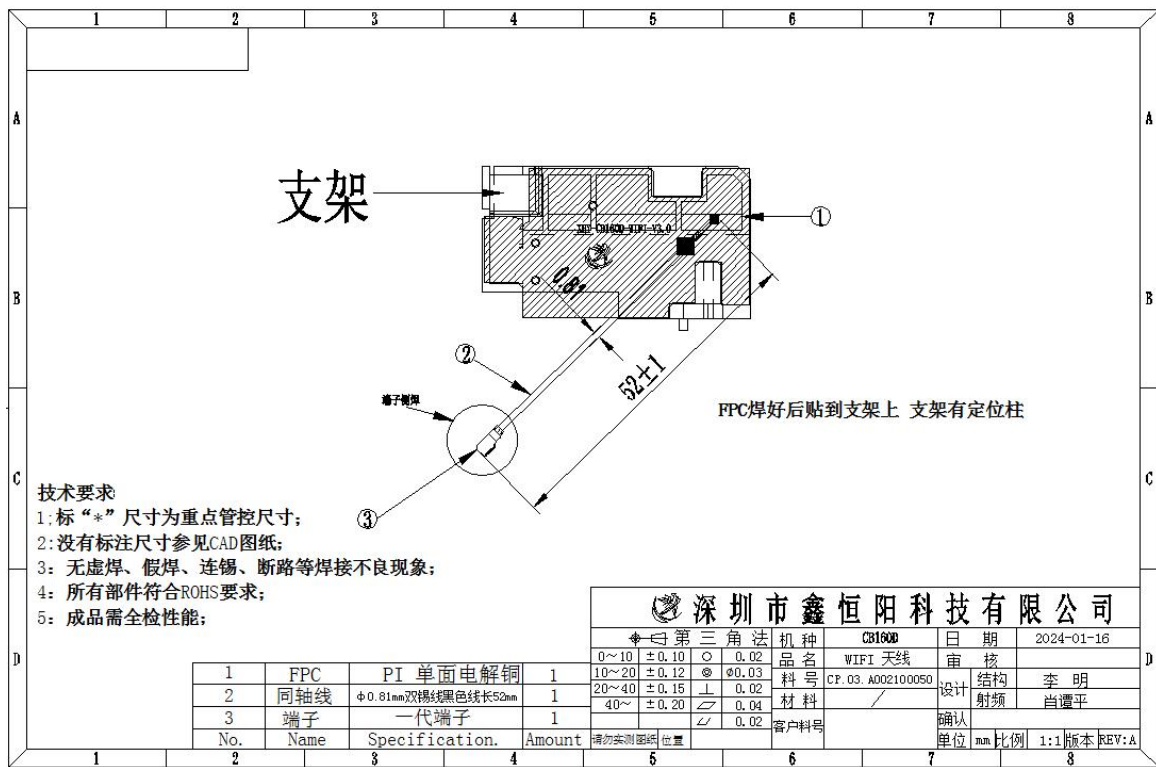
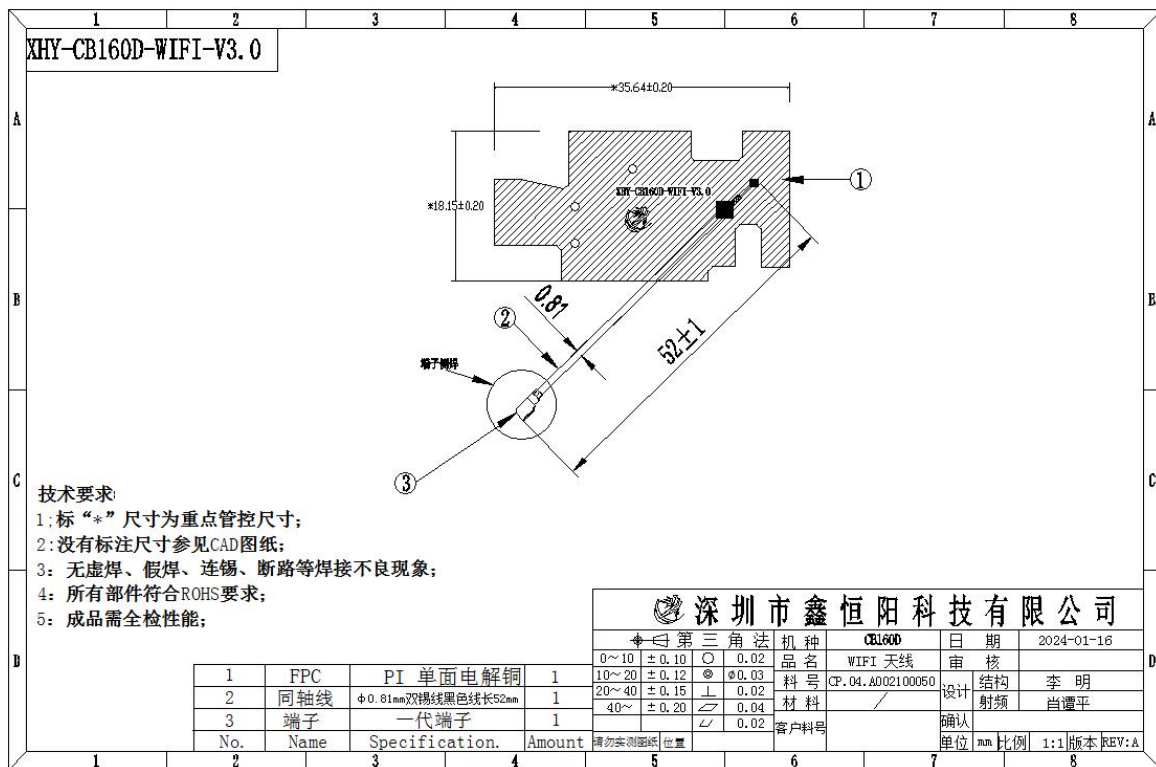


七、天线装配图





八、天线图纸尺寸





九、ROHS

Antenna CP. 04. 4002100050 CP. 03. A002100050 meets RoHS requirements.

十、产品包装说明

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*****