



Shenzhen XINHENG YANG Technology Co., Ltd

LETTER OF ACCEPTANCE

SPECIFICATION FOR APPROVAL

Customer Name: Shenzhen Xin Zhengyu Technology Co., LTD

Product Model: CT-22

Customer P/N : 3614.10.1471.00 CT22-FPC antenna (Jerry scheme) L
3614.10.1481.00 CT22-FPC antenna (Jerry scheme) R

XINHENG YANG P/N: EJ. 01. 0055-CT22L EJ. 02. 0055-CT22R

SPECIFICATIONS: BT

Production date: 2024. 7. 1

Sample Version: V1

XINHENG YANG		
FICTION	Structure	R&D
Customer		
PUR	QC	R&D

Manufacturer: Shenzhen Xinhengyang Technology Co., LTD

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R & D, production and sales of professional wireless terminal antenna



1、The basic parameters

A. Electrical Characteristics	
Frequency	2400MHZ-2500MHZ
VSWR	< 3.0
Avg Efficiency	>12%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2400MHZ:0.31dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC yellow Electrolytic copper +PI
Cable Type	/
Connector Type	/
Dimension	/
C. Environmental	
Operation Temperature	- 30℃ ~ + 85 ℃
Storage Temperature	- 30℃ ~ + 85 ℃

2、Electrical Specification

Those specifications were specially defined for CT-22 model..

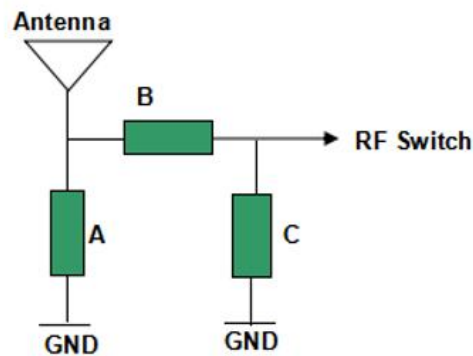
3、VSWR

1 Measuring Method

1.A 50Ω 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



	L	R
A	原始匹配 Original matching	2. 0PF
B		$\infty \Omega$
C		NA
D		

4、 Anechoic chamber

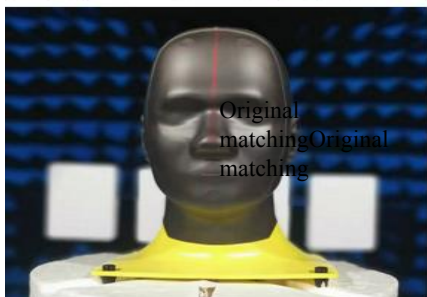
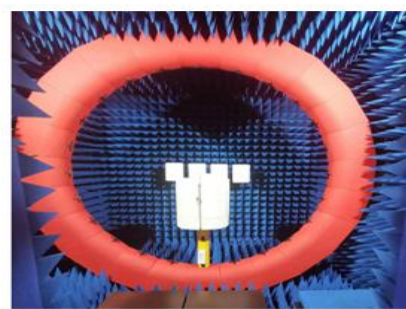
Introduction:

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.

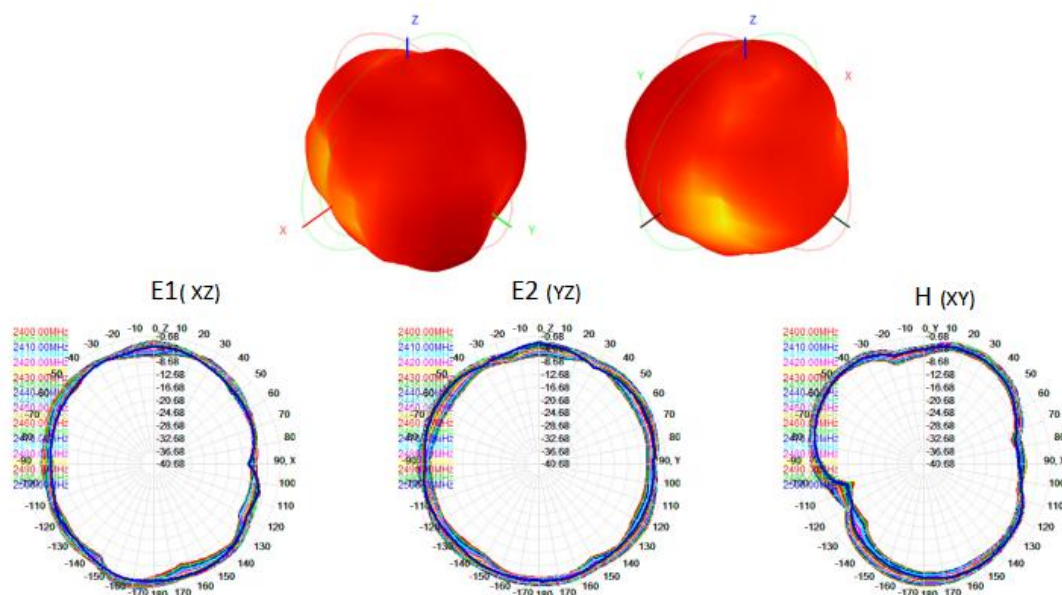
main performance :

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)

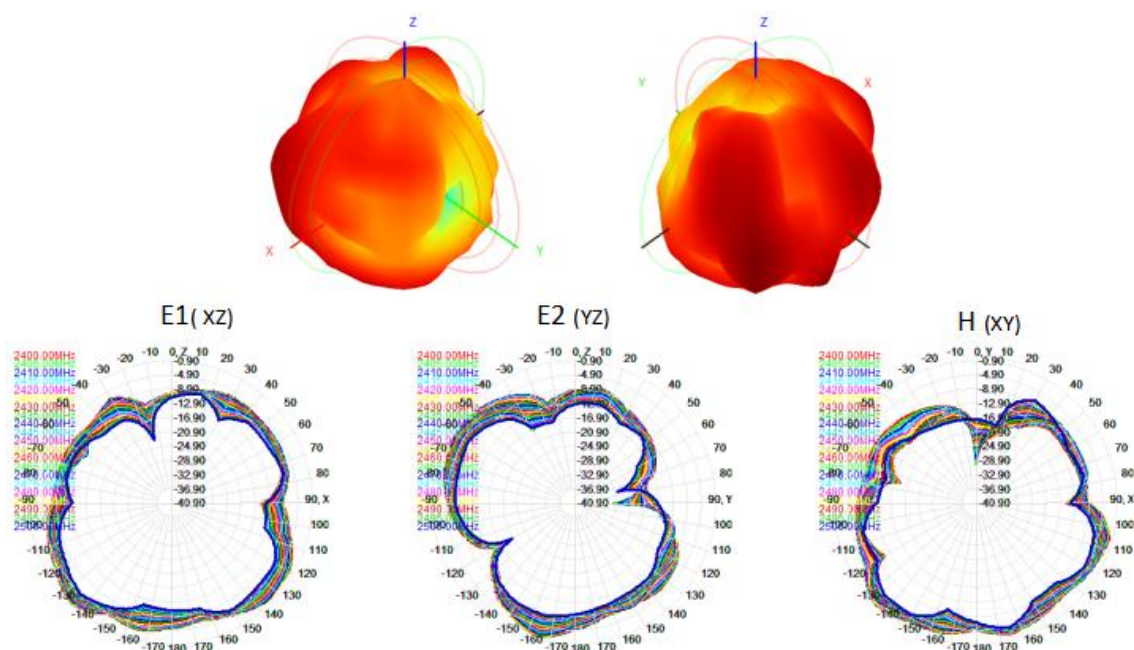


5、Gain table of Antenna

Passive field pattern: 2400MHZ-2500MHZ-L



Passive field pattern: 2400MHZ-2500MHZ-R



Passive efficiency gain:

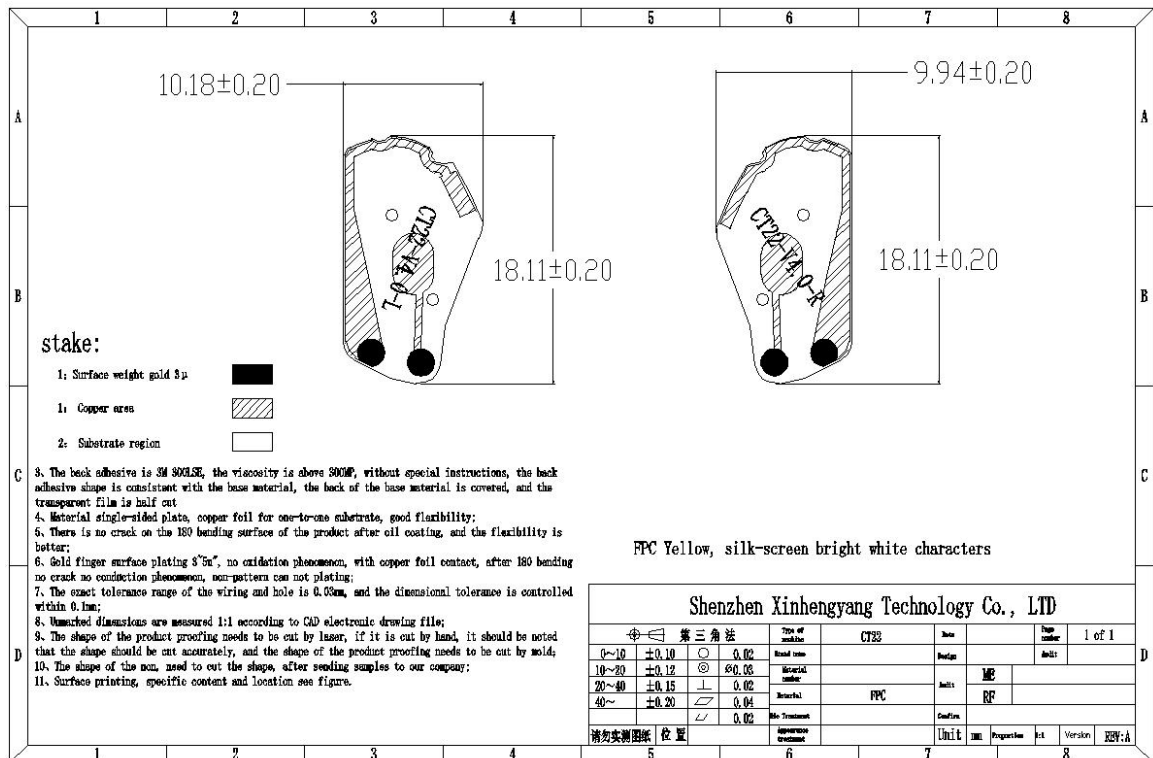
L				R			
Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	-1.85	23.19	1	2400.0	-0.4	24.92
2	2410.0	-1.19	26.68	2	2410.0	-0.81	23.51
3	2420.0	-0.76	31.40	3	2420.0	-1.22	22.91
4	2430.0	-0.23	36.89	4	2430.0	-1.69	21.13
5	2440.0	0.16	42.07	5	2440.0	-1.90	19.98
6	2450.0	0.31	44.37	6	2450.0	-2.29	18.03
7	2460.0	0.16	44.12	7	2460.0	-2.63	16.85
8	2470.0	-0.38	41.37	8	2470.0	-2.94	15.21
9	2480.0	-0.99	37.97	9	2480.0	-3.16	13.73
10	2490.0	-1.72	34.85	10	2490.0	-3.25	13.11
11	2500.0	-2.03	32.49	11	2500.0	-3.42	12.22

OTA active

Test Condition		Free Space	
band	Channel	TRP (dBm)	TIS(dBm)
BT/R	0	0.84	-85.27
	39	0.5	-85.03
	78	1.55	-86.72
BT/L	0	0.29	-86.09
	39	1.76	-86.37
	78	2.78	-87.92

Test Condition		Head module Space	
band	Channel	TRP (dBm)	TIS(dBm)
BT/R	0	0.25	-83.27
	39	0.11	-83.03
	78	1.14	-84.22
BT/L	0	0.02	-84.09
	39	0.45	-83.37
	78	0.98	-84.92

6、Antenna Dimensions



7、Physical picture



8、ROHS

Antenna EJ. 01. 0055-CT22L EJ. 02. 0055-CT22R

meets RoHS requirements.

9、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*****