



SPECIFICATION

Customer Name: Zhuhai Zhidi Technology Co., LTD

Product Model: MG722F

Customer P/N : 163000062

Jiade P/N: WJ. 05. 0000016

SPECIFICATIONS: Frequency band:2400MHZ-2500MHZ

Production date: 2024-12-06

Sample Version: R1

JIA DE		
FICTION	QC	R&D
Customer		
PUR	QC	R&D

Manufacturer: Good Wireless Technology (Shenzhen) Co., LTD

Shenzhen Address: 601-602, North Block, Gangsong Building, Tairan Sixth Road, Futian District, Shenzhen

Tel: 0755-33353180 Email: olinama@jiadew.com

The website is: www.jiadew.com

Number	Effective date	Change record
R1	2024-12-06	Initial release

1、The basic parameters

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ
VSWR	< 2.0
Avg Efficiency	>50%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2.4G:1.93dBi
B. Material & Mechanical Characteristics	
Material of Radiator	Stainless steel silver
Antenna Type	Metal Antenna
Connector Type	/
Dimension (mm)	
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 30 °C ~ + 70 °C

2、Electrical Specification

Those specifications were specially defined for MG722F model.

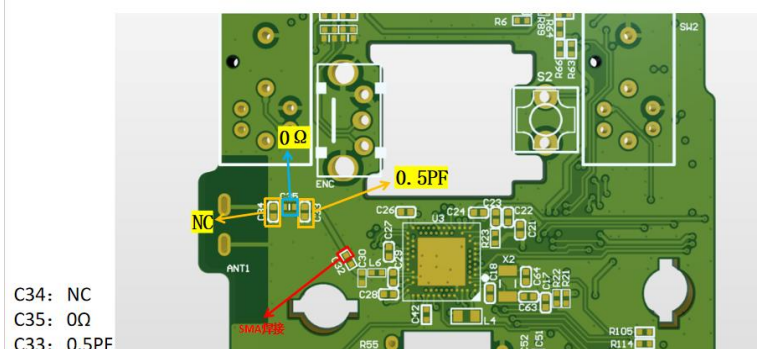
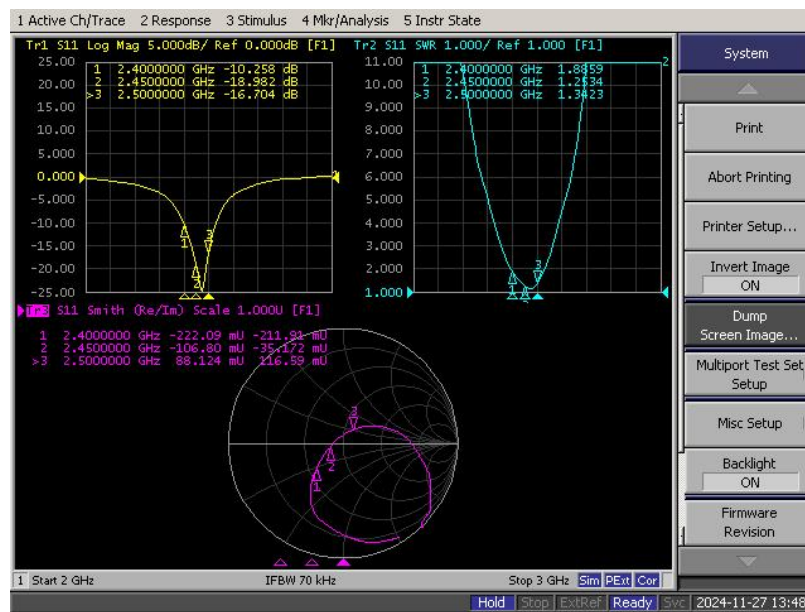
3、VSWR

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



4、 Anechoic chamber

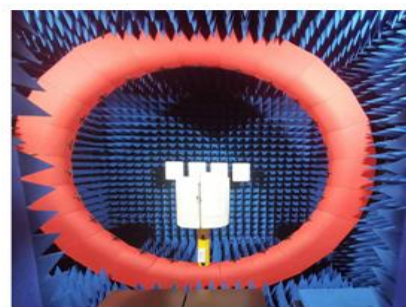
Introduction:

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.

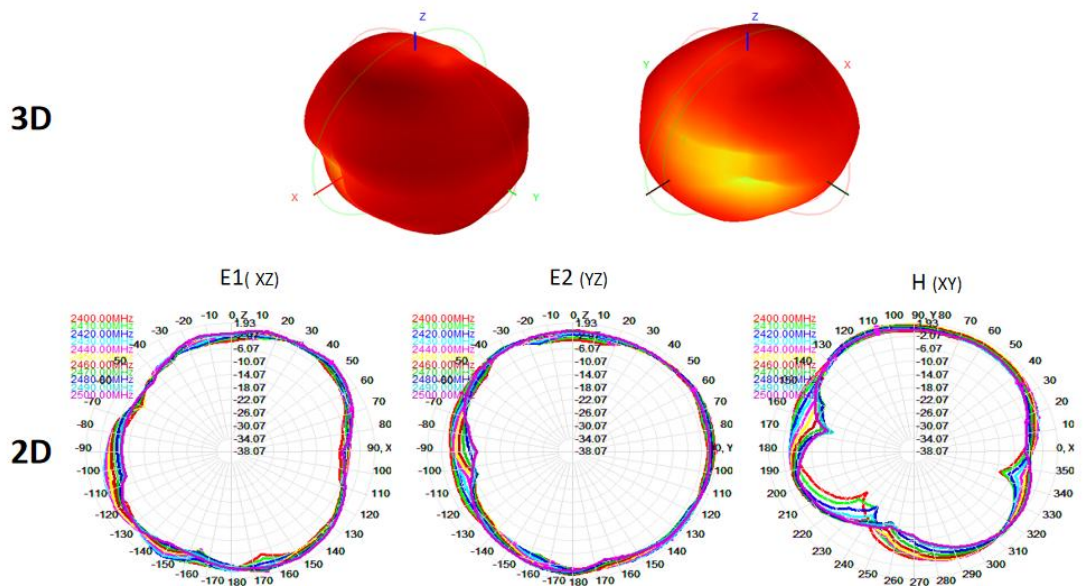
main performance :

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

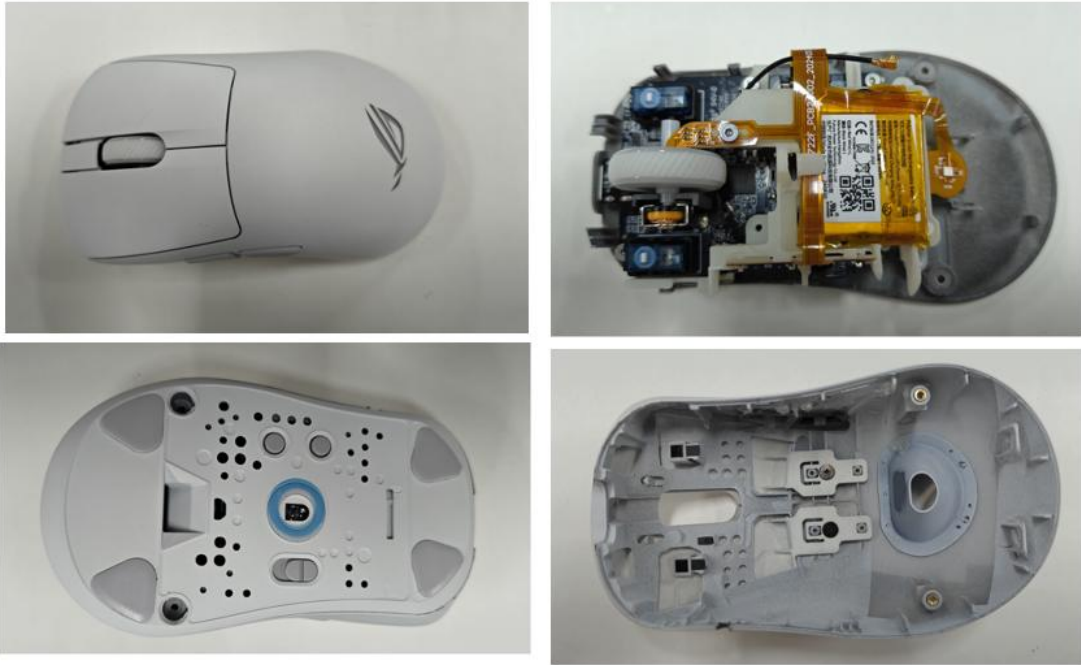
Passive field pattern



Passive efficiency gain

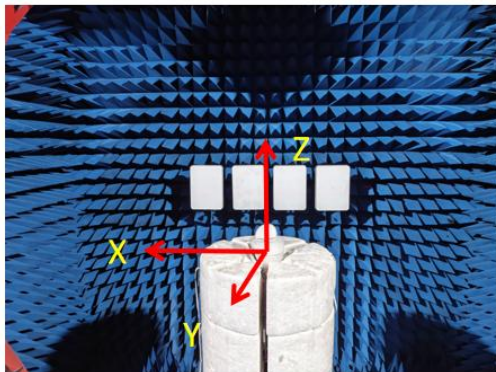
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-2.87	1.17	51.61
2410	-2.71	1.24	53.63
2420	-2.61	1.35	54.87
2430	-2.56	1.53	55.42
2440	-2.57	1.93	55.36
2450	-2.61	1.92	54.81
2460	-2.72	1.78	53.42
2470	-2.69	1.50	53.86
2480	-2.69	1.61	53.82
2490	-2.67	1.55	54.13
2500	-2.78	1.43	52.73

6、Machine Picture



7、Test Angle and test part placement

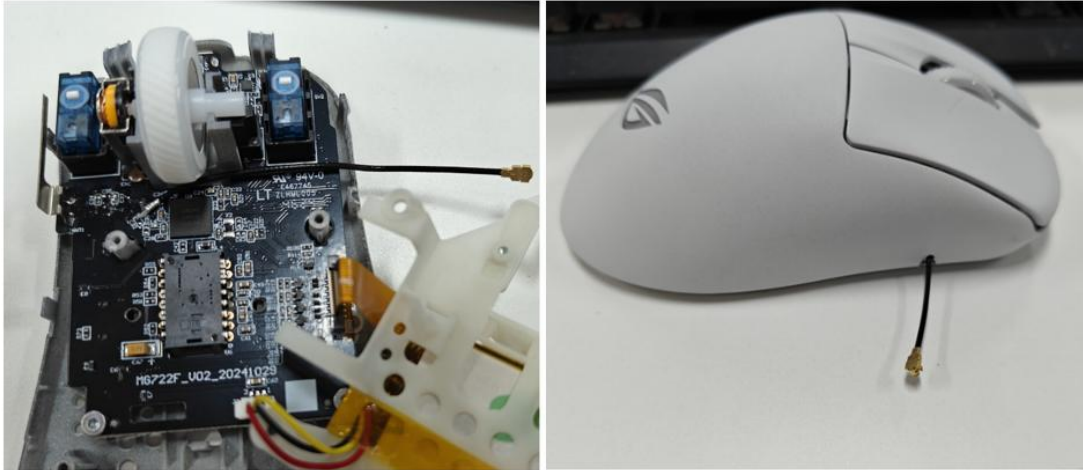
XYZ during DUT test



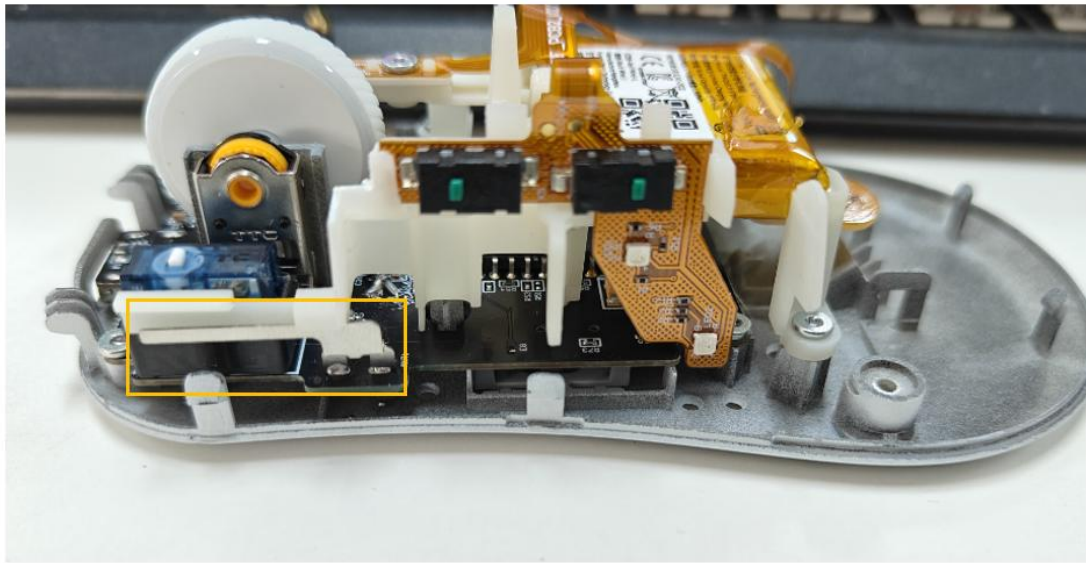
Chamber ANT relative position



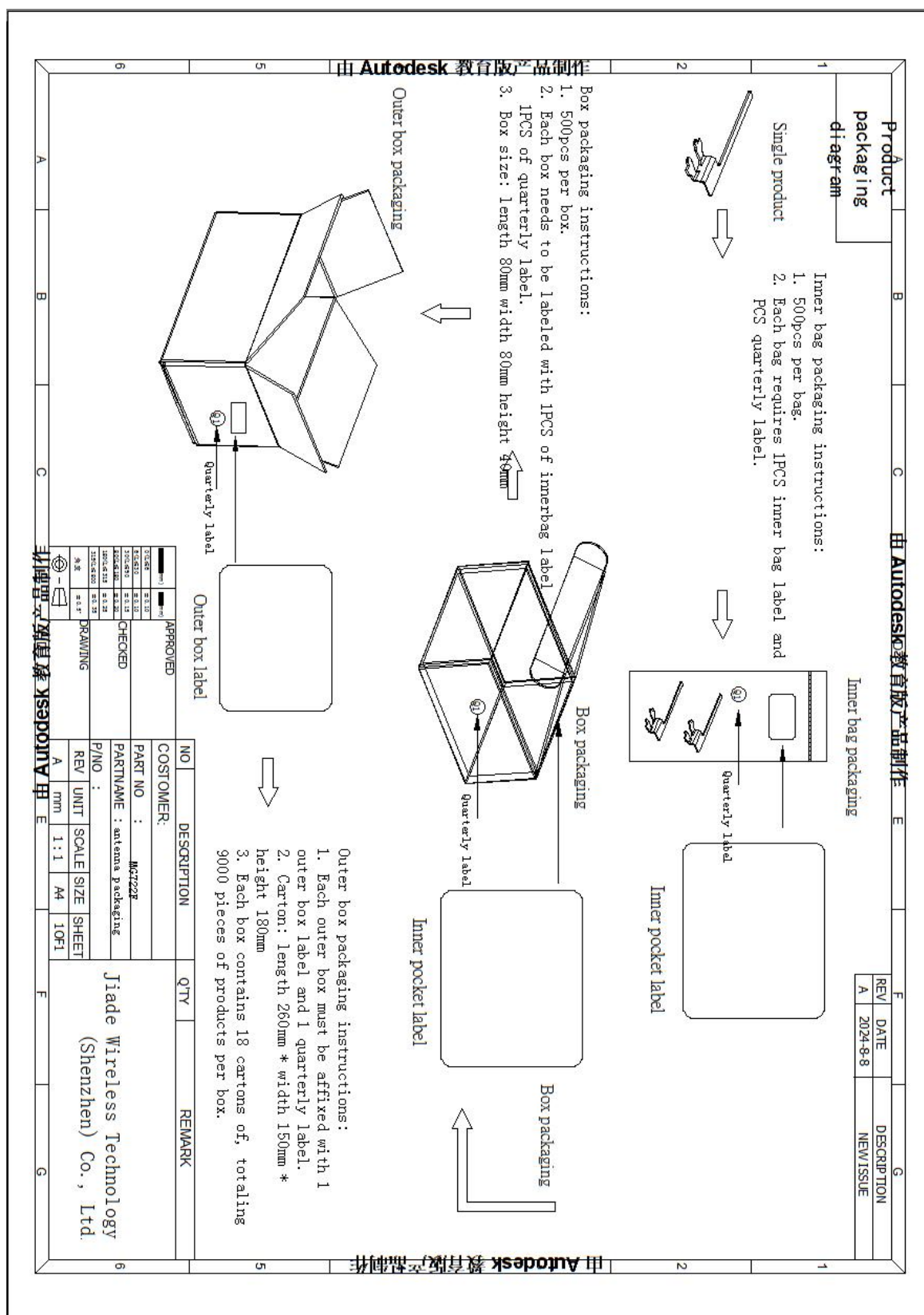
8、Coaxial line out direction



9、Antenna assembly drawing

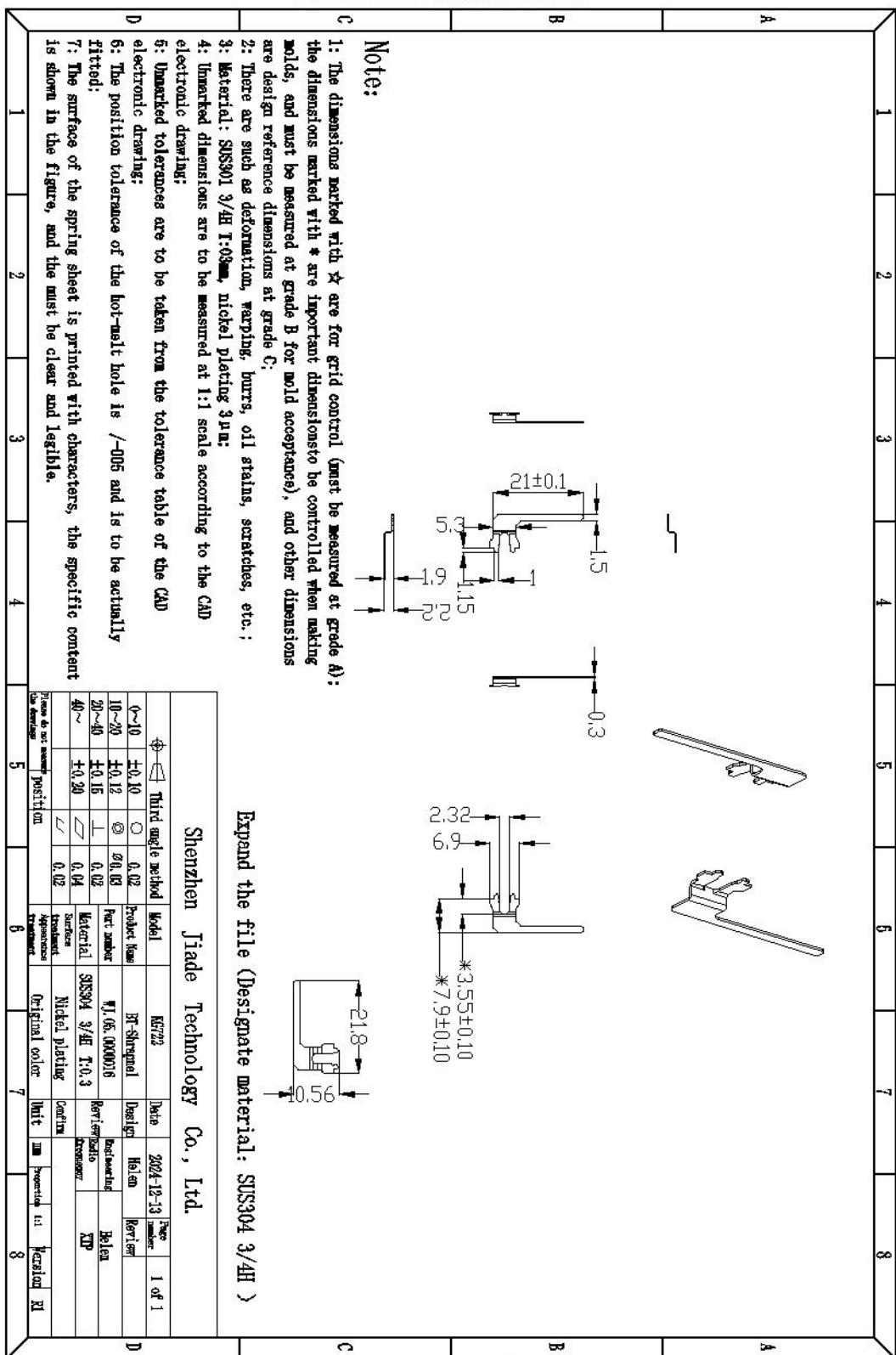


10、 Delivery packing method



11 Antenna Dimensions

由 Autodesk 教育版产品制作



由 Autodesk 教育版产品制作

12、 ROHS:

Antenna WJ.05.0000016 meets RoHS requirements.

13、 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*****