



承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name: 珠海市智迪科技股份有限公司

产品型号 Product Model: RG100

客户料号 Customer P/N : 163000042

佳德料号 Jiade P/N: WJ. 05. 0000007

产品规格 SPECIFICATIONS: 频段: 2400MHZ-2500MHZ

制作日期 Production date: 2024-08-08

封样版本 Sample Version: V1

佳德（JIA DE）		
编制（FICTION）	品质（QC）	研发（R&D）
客户（Customer）		
采 购（PUR）	品质（QC）	研发（R&D）

生产厂商：佳德无线科技（深圳）有限公司

深圳地址：深圳市福田区泰然六路苍松大厦北座 601-602

电 话：0755-33353180 邮箱：olinama@jiadew.com

网 址：www.jiadew.com



Number	Effective date	Change record
V1.0	2024-03-19	Initial release
V2.0	2024-05-17	Modified antenna
V3.0	2024-08-08	Change the packaging

一、The basic parameters:

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ
VSWR	< 2
Avg Efficiency	>45%
Impedance	50 $\pm$ 25 Ohm
Polarization	Linear
Peak Gain	2.4G:3.12dBi
B. Material & Mechanical Characteristics	
Material of Radiator	Stainless steel silver
Cable Type	/
Connector Type	/
Dimension (mm)	
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 30 °C ~ + 70 °C

二、Electrical Specification :

Those specifications were specially defined for 智迪 RG100 model.

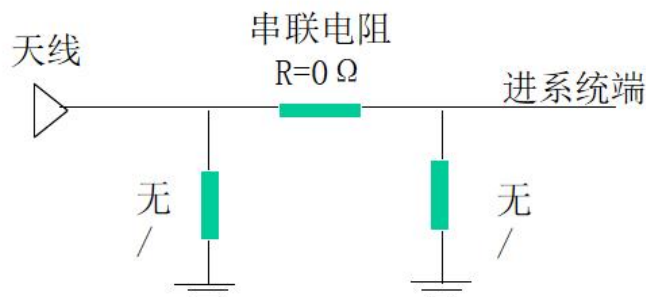
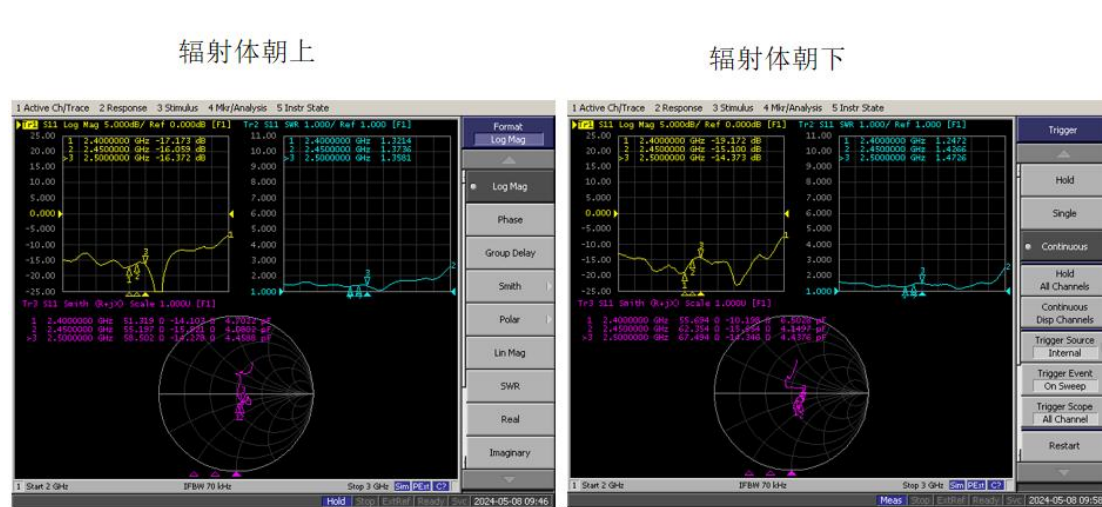
三、VSWR

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



四、 Anechoic chamber

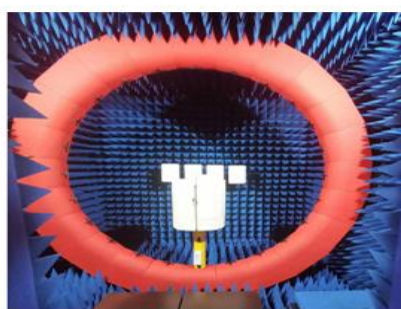
Introduction:

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)

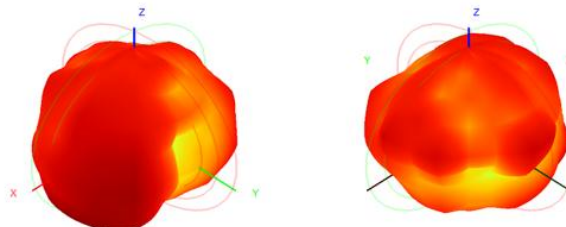


五、Gain table of Antenna

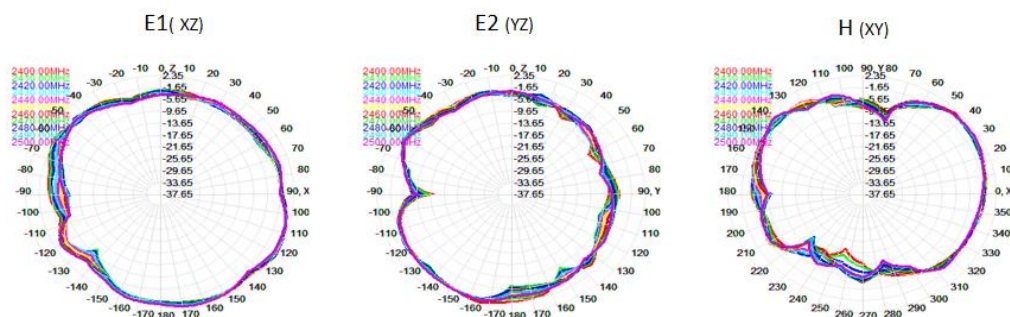
无源场型图

辐射体朝上

3D

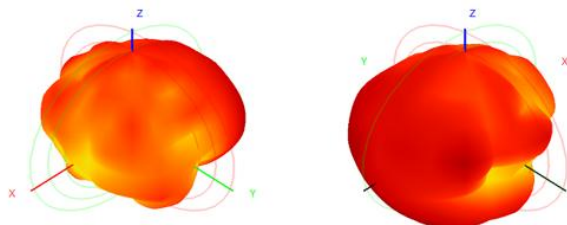


2D

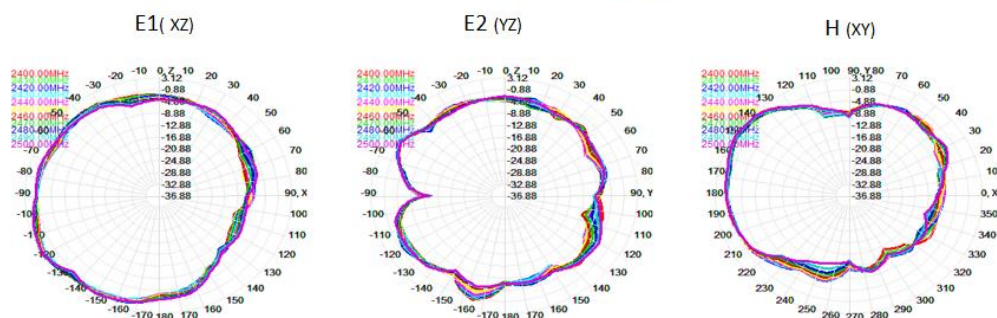


辐射体朝下

3D



2D

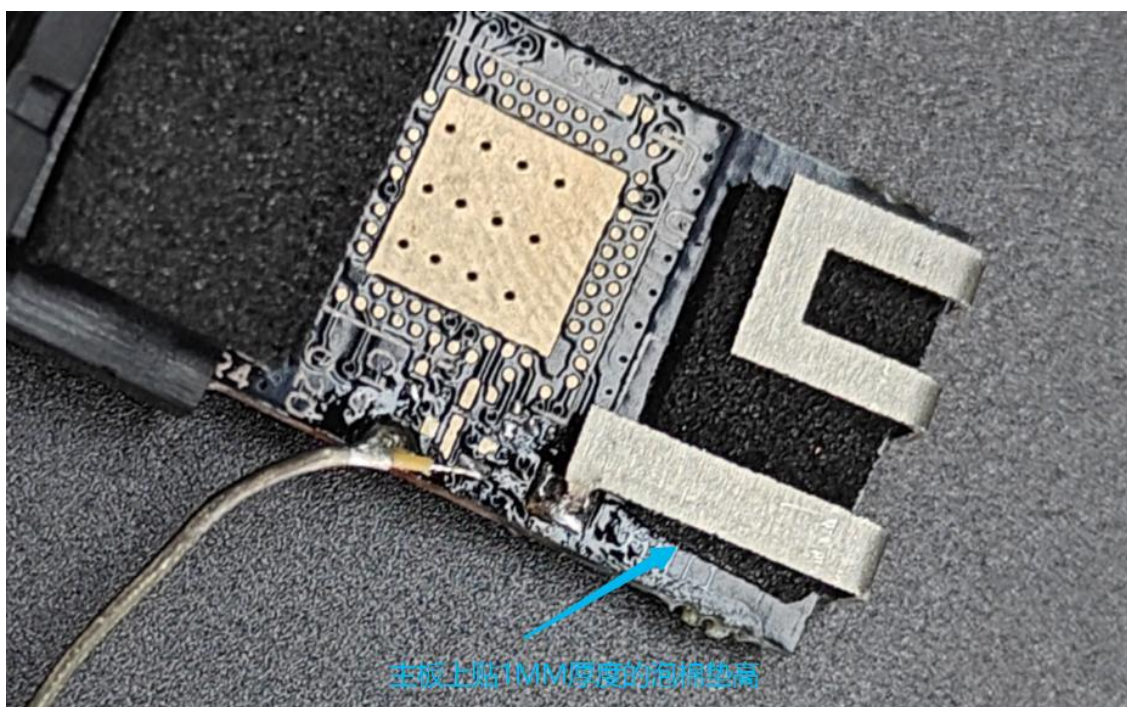


无源效率增益

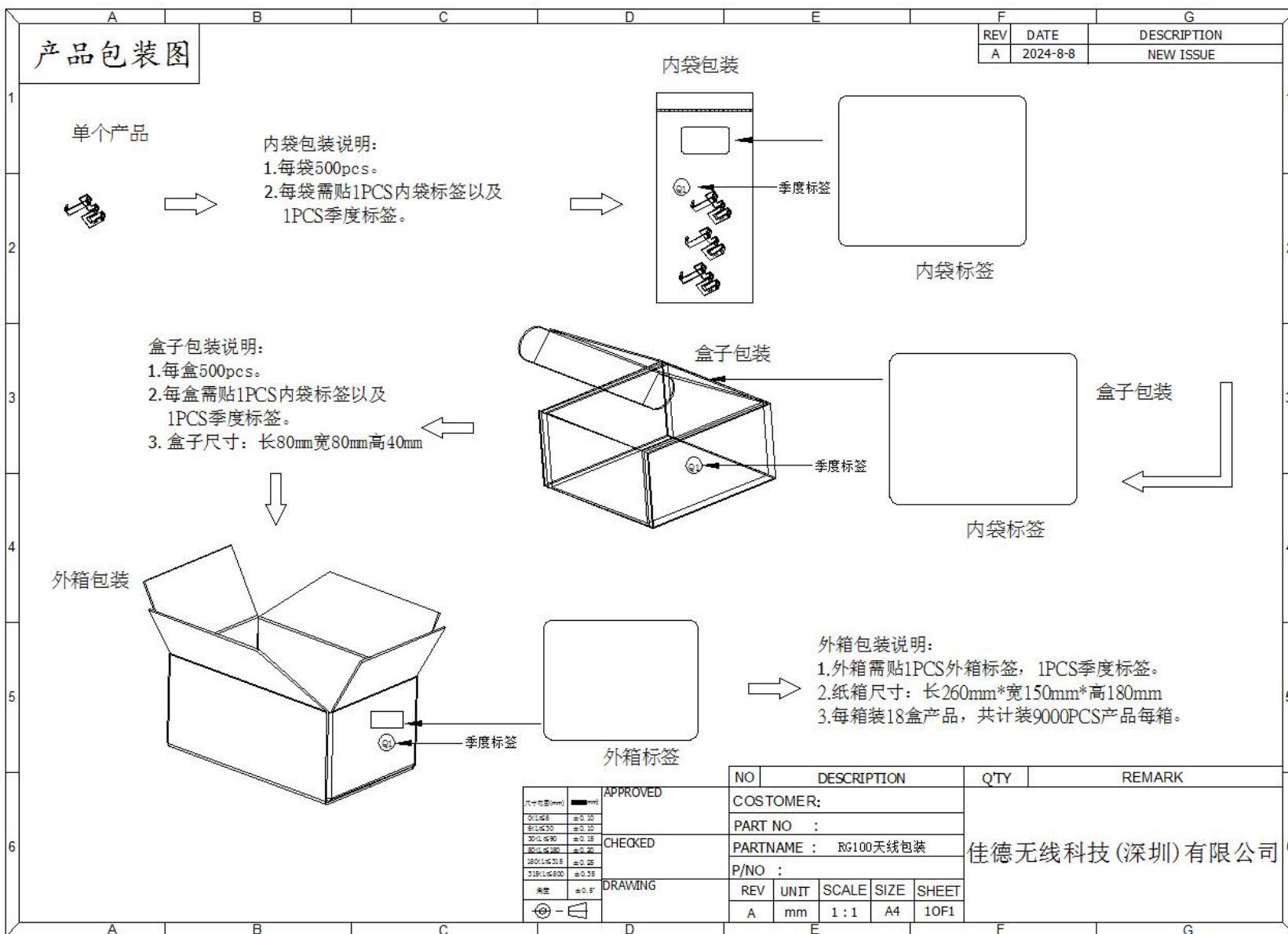
天线辐射体朝上			
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.11	2.04	48.83
2410	-3.16	2.21	48.26
2420	-3.13	2.35	48.63
2430	-3.15	2.19	48.40
2440	-3.05	2.17	49.57
2450	-3.04	2.15	49.65
2460	-3.06	2.15	49.40
2470	-3.10	1.96	48.93
2480	-3.08	1.96	49.20
2490	-3.07	2.03	49.28
2500	-3.01	2.21	49.98

天线辐射体朝下			
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.20	2.70	47.86
2410	-3.32	2.52	46.55
2420	-3.32	2.60	46.51
2430	-3.41	2.63	45.60
2440	-3.27	2.79	47.14
2450	-3.24	2.74	47.45
2460	-3.25	2.98	47.32
2470	-3.27	3.07	47.15
2480	-3.20	3.12	47.86
2490	-3.19	2.96	47.99
2500	-3.14	3.03	47.54

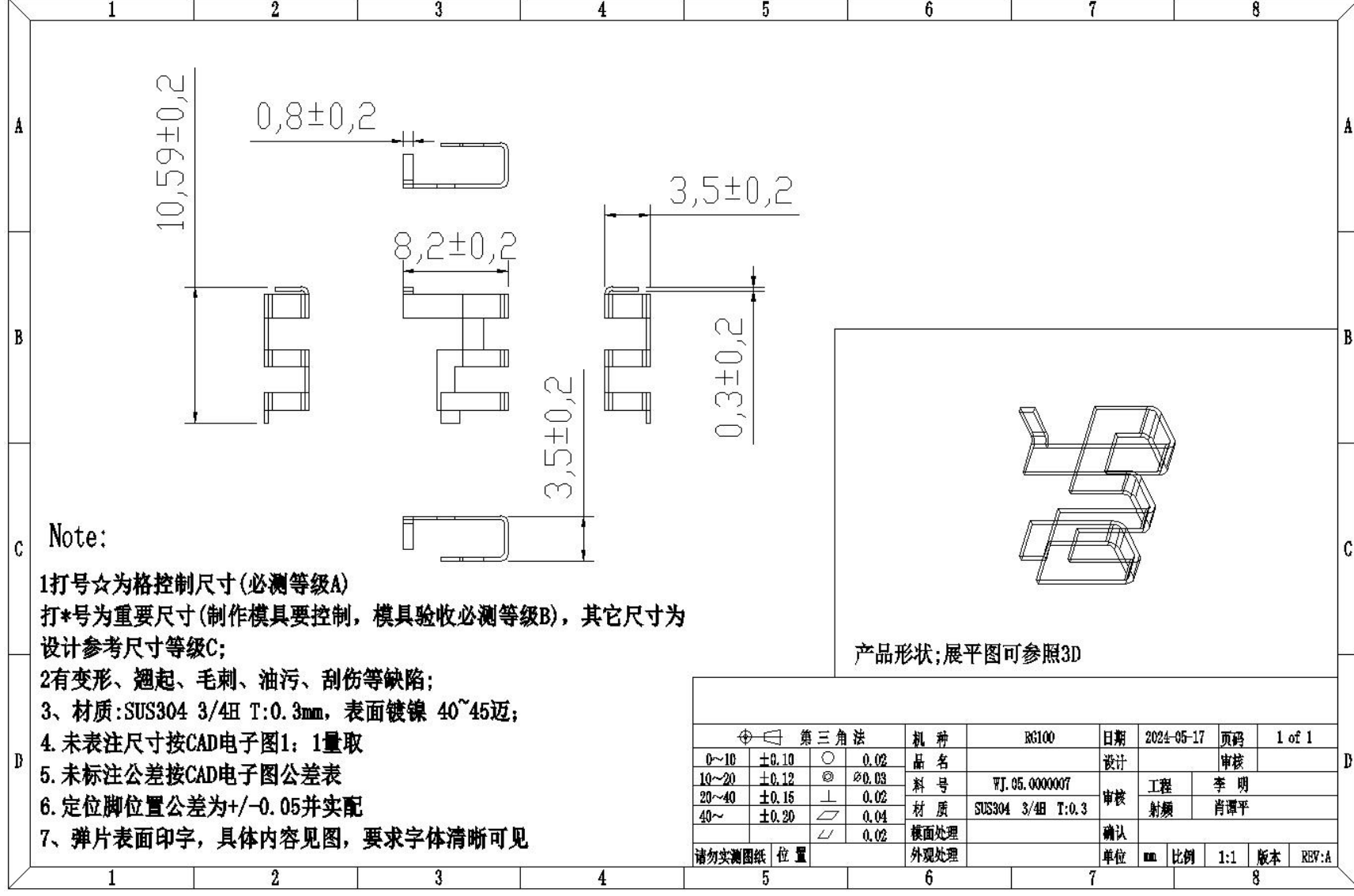
六、Machine Picture:



七、Delivery packing method



八、Antenna Dimensions



九、ROHS:

Antenna WJ.05.0000007 meets RoHS requirements.

十、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*****