



规格书

Specification

客户名称:	睿能科技
CUSTOMER:	
客户料号:	
CUSTOMER P/N:	
客户品名:	
DESCRIPTION:	
汇创料号:	
JL P/N:	C168-JL-6600
汇创品名:	
PART NO:	NDS-2.4G 天线
版本:	
Revision:	V1.0

客户签核	核准	审核	编制
	Frank	WenSen	Sean
	2024. 05. 24	2024. 05. 24	2024. 05. 24

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版本描述

日期	批准	版本	描述
2024-05-24		V1.0	初版

1. Product Performance

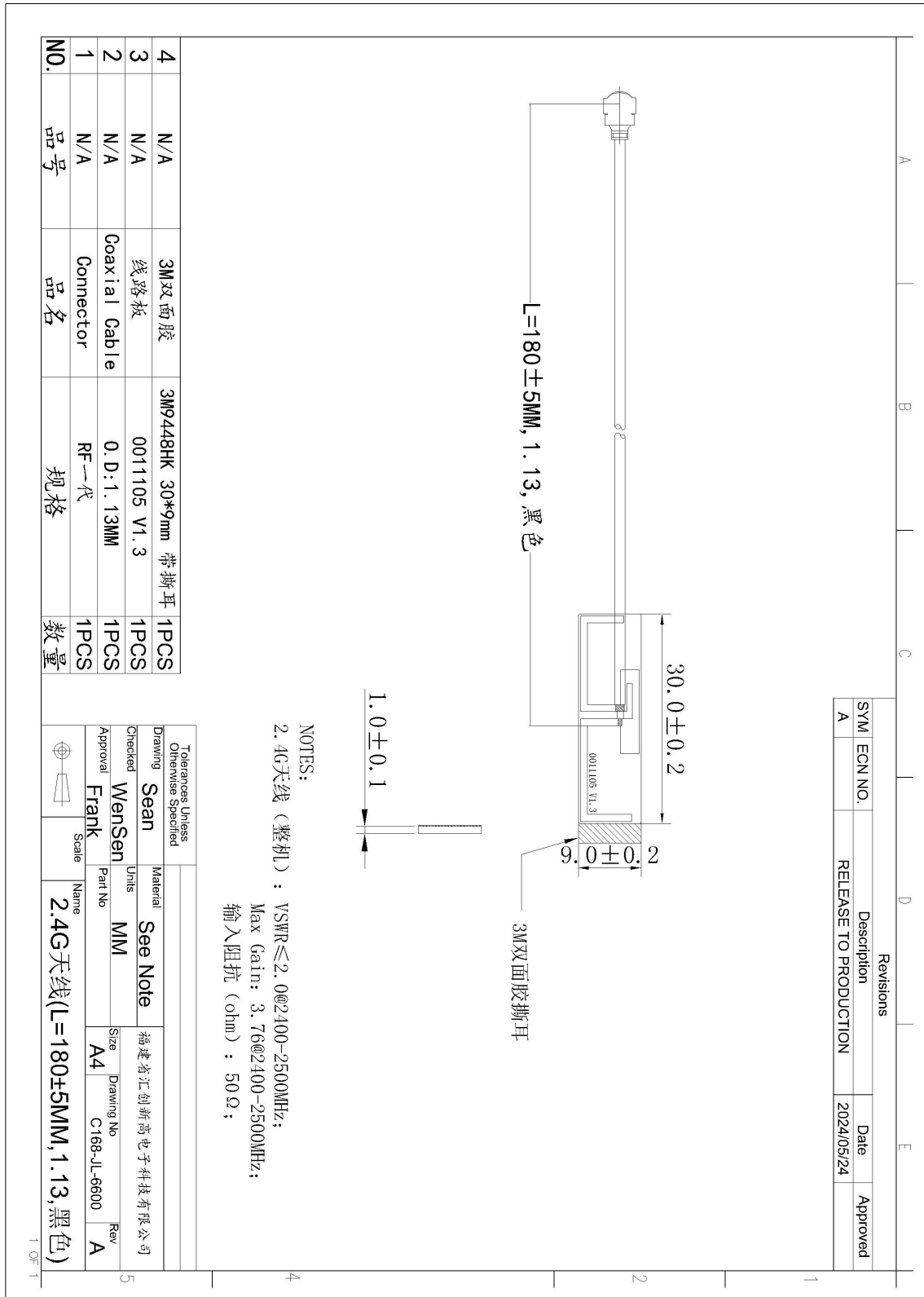
电性能指标/Electrical specifications	
天线类型/Antenna type	2.4G 天线
天线编号（见图纸）	0011105 V1.3
频率范围(MHz)/Frequency range(MHz)	2400~2500
电压驻波比/VSWR	≤2.0@2400~2500
输入阻抗 (Ohm)/Impedance(Ohm)	50
增益(dBi)/Peak Gain(dBi)	3.76@2400~2500
机械指标/Mechanical specifications	
天线尺寸（mm） /Dimensions(mm)	30*9*1
连接器类型/Connector Type	RF 一代
电缆类型/Cable Type	1.13 黑色
工作温度（℃）/Operation Temperature（℃）	-20~65
存储温度（℃）/Storage Temperature（℃）	-20~65

2. Environmental Performance Test

NO	项目 Item	测试条件 Test Condition	规格要求 Requirement	结论
1	外观 Appearance	目测 Visual by eye 视力 Light: > 1.0 照明 Lamp: 200~300Lx 目测距离 Space: 0.3~0.6m	1、塑胶件表面无明显疤痕、凹陷、开裂及影响使用变形。 Plastic part: smooth and flat surface without discolor, broken, crack distortion defects is acceptable 2、金属件表面无明显机械损伤等缺陷。 Metal part: No obvious mechanical damage and other defects on the surface 3、线路板(或柔性线路板)表面无脏污、破损、氧化、无明显的机械损伤等缺陷, 丝印清晰。 PCB (or FPCB) : The surface is free of dirt, damage, oxidation, no obvious mechanical damage and other defects, screen printing clear. 4、导线表面清洁、无破损等缺陷。 Wire: clearing surface without discolor, broken defects.	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
2	端子固定力 /Terminal Retention Force	固定连接器或测力计, 在连接器轴线方向施加规定的拉力, 速度不大于 25mm/min。 Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.	12N MIN	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
3	焊接固定力 /Solder Retention Force	固定连接器或测力计, 在连接器轴线方向施加规定的拉力, 速度不大于 25mm/min。 Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.	15N MIN	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
4	耐盐雾测试 /Salt spray test	参考 GB-T2423.17 规范, 浓度 5%之氯化钠(NaCl)溶液; PH 值 6.5-7.2; 温度 35℃, 测试时间 48H。 Refer to GB-T2423.17, NaCl	静置常温干燥后, 检查外观, 样品表面无明显腐蚀等异常现象或依图面规格需求。 After drying at room temperature, check appearance, the sample surface no obvious corrosion and other abnormal phenomena or	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA

		solution with 5% concentration, PH 6.5-7.2, temperature 35 °C, test time 48 hours.	according to the drawing specifications.	
5	高温测试 /High temperature test	参考 GB-T2423.2 规范, 温度 70°C, 测试时间 28 小时。 Refer to GB-T2423.2, the temperature is 70 °C and the time is 28 hours.	静置常温干燥后, 检查外观, 样品无变形、剥离、裂纹、皱纹异色、鱼鳞纹。 After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
6	低温测试 /Low temperature test	参考 GB-T2423.1 规范, 温度 -40°C, 测试时间 28 小时。 Refer to GB-T2423.1, the temperature is -40 °C for 28 hours.	静置常温干燥后, 检查外观, 样品无变形、剥离、裂纹、皱纹异色、鱼鳞纹。 After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
7	高温高湿测试 /High temperature and high humidity test	参考 GB-T2423.3 规范, 温度 70°C, 湿度 95%, 测试时间 16 小时。 Refer to GB-T2423.3 specification, temperature 70°C, humidity 95% , time 16H.	静置常温干燥后, 检查外观, 样品无变形、剥离、裂纹、皱纹异色、鱼鳞纹。 After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
8	温度冲击测试 /Temperature shock test	参考 GB-T2423.3 规范, 温度 -30°C, 1 小时, 温度 75°C, 1 小时, 共 22 循环。 Refer to GB-T2423.3 specification, temperature -30 °C, 1 hour, temperature 75°C, 1 hour, total 22 cycles.	静置常温干燥后, 检查外观, 样品无变形、剥离、裂纹、皱纹异色、鱼鳞纹。 After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
9	跌落试验 /Drop test	一角、三棱、六面 1M 高空自由跌落。 One corner, three edges, six sides, free fall at an altitude of 1M.	电气机械性能正常。 Electrical and mechanical properties are normal.	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA
10	模拟运输振动	依据 ISTA 标准测试。 Testing according to ISTA standards	电气机械性能正常。 Electrical and mechanical properties are normal.	☒ 合格/Pass ☐ 不合格/Fail ☐ 不适用/NA

3. Mechanical Dimension Drawing

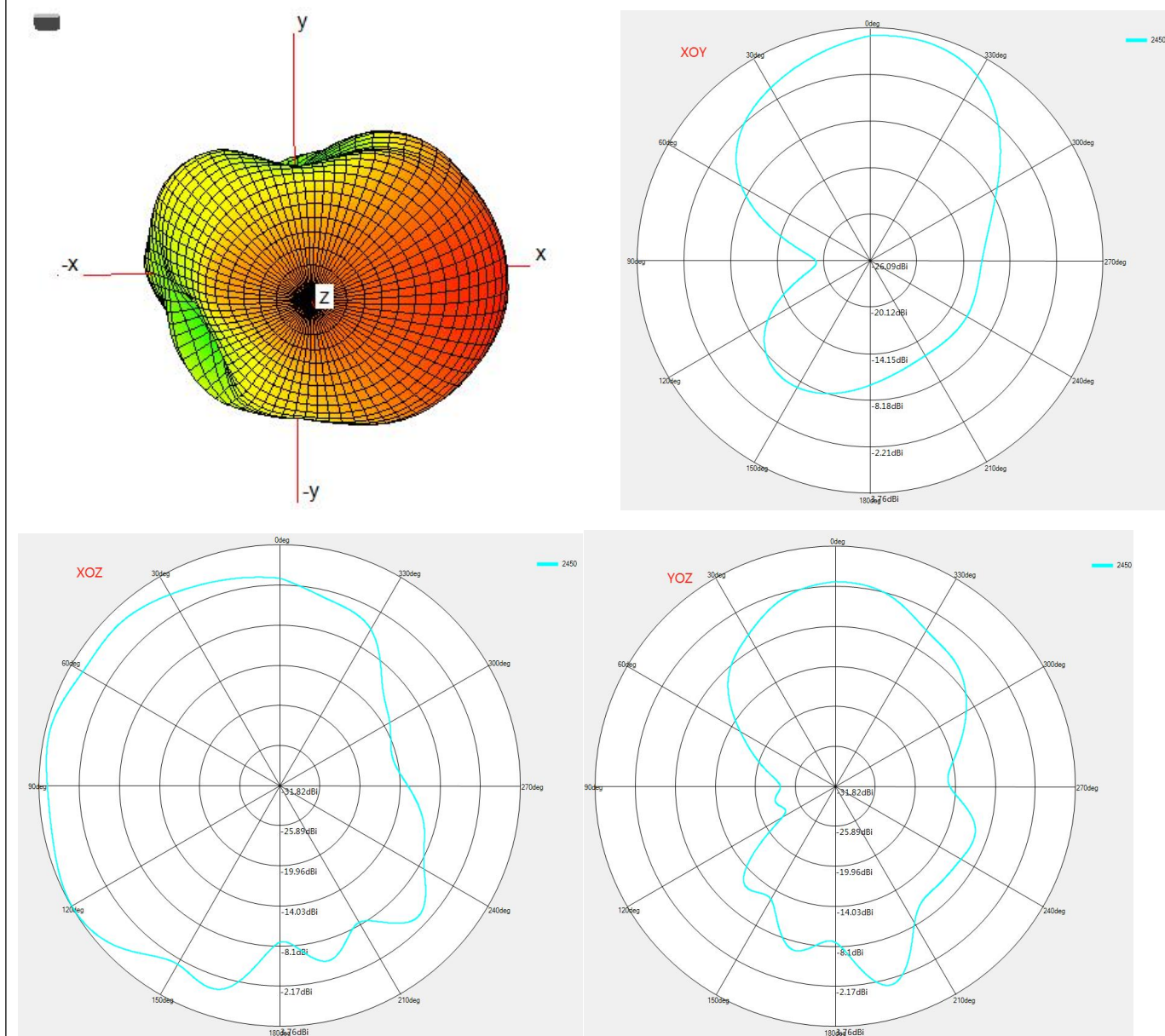


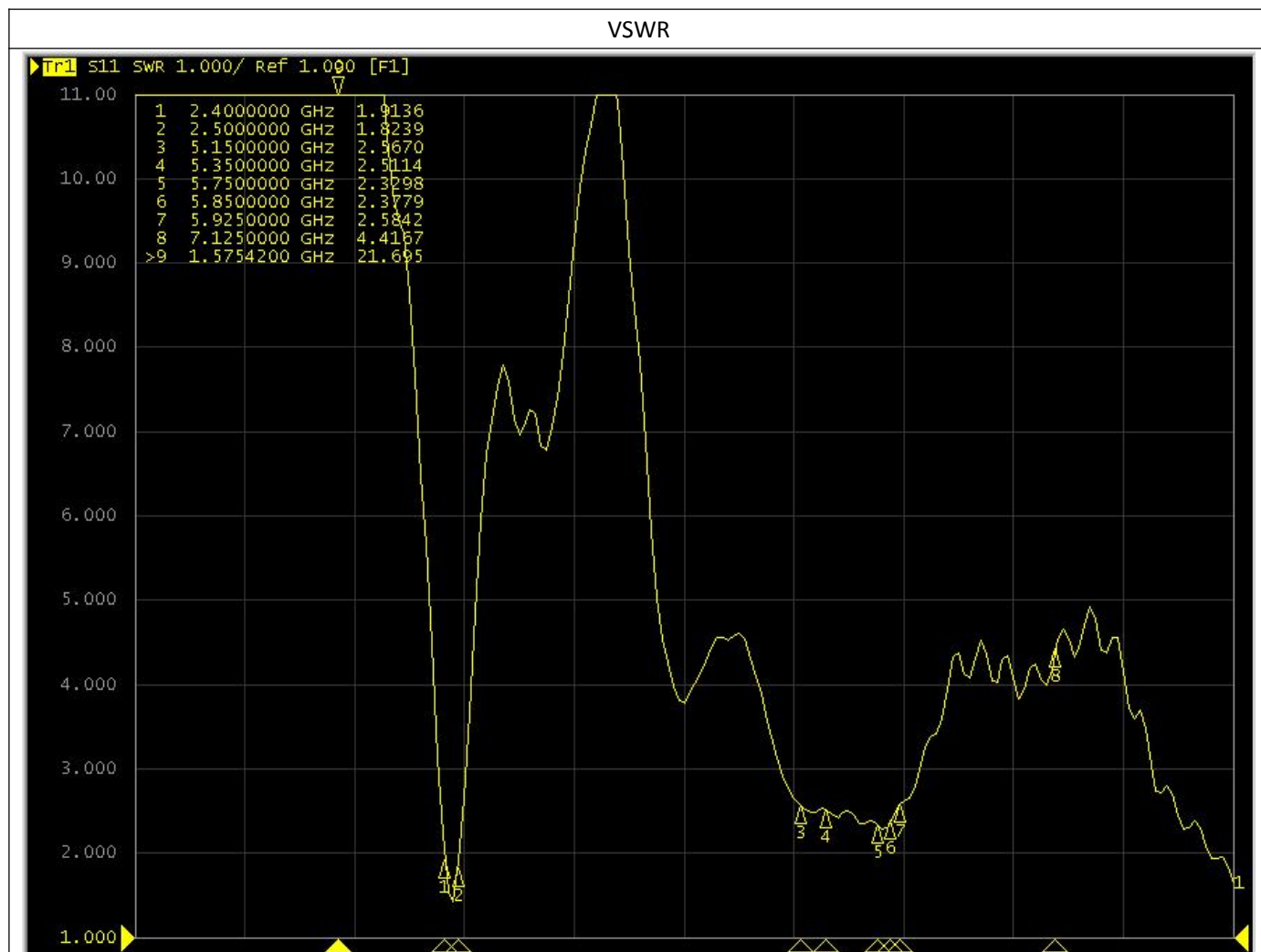
4. Simple Test

2.4G 天线

Radiation Pattern

频率: 2450MHz

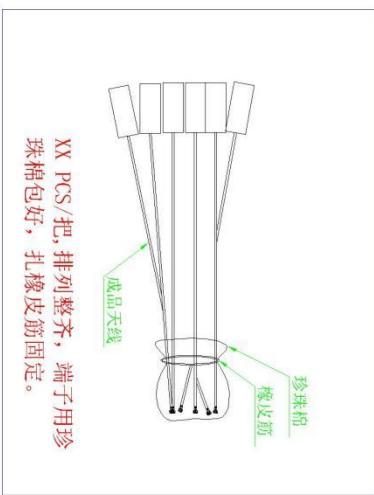
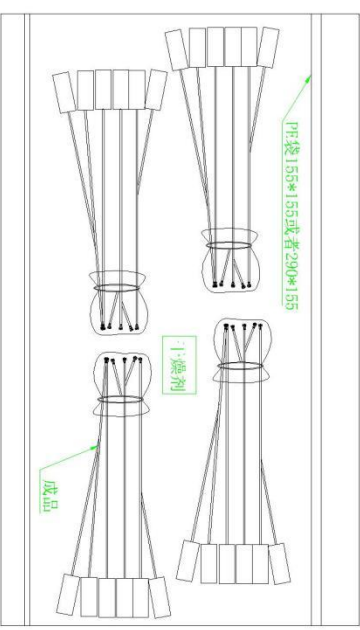
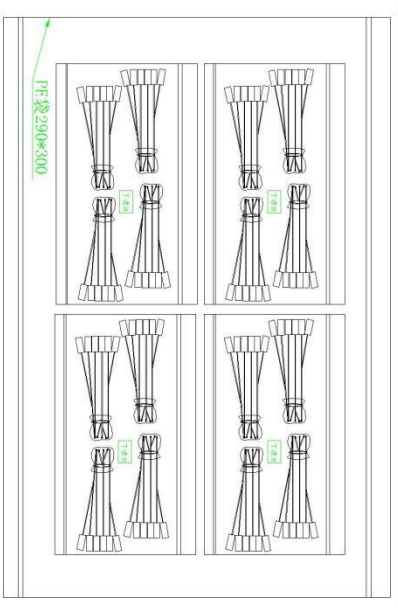




Effi&Gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	46.77	3.16
2410	48.28	3.51
2420	46.90	3.32
2430	47.55	3.44
2440	51.62	3.74
2450	50.71	3.76
2460	49.47	3.63
2470	49.81	3.62
2480	49.75	3.51
2490	49.10	3.56
2500	47.93	3.32

5.Packing Specification

A		B		C		D		E						
包装方式参照:  XX PCS/把, 排列整齐, 端子用珍珠棉包好, 扎橡皮筋固定。					 PE袋 155*155或者290*155 1: 干燥剂 成品					备注: 技术要求: 1. 数量必须过称确认, 避免短装。 2. 线短的可以用同一张珍珠棉将产品都包起来。 3. PE袋口要封紧。 4. 首件需经组长确认, 操作员培训上岗。				
 PE袋 290*300					一大PE袋装入5或者10小PE袋 (按成品大小选择, 与PE袋装满为宜), 整齐排放, 封口机封口。									
1 OF 1					5									

SYMBOL		ECN NO.		Description		Date		Approved	
A				新设		2020/09/09			

Drawing		Material		See Note	
Checked	WenSen	Units	MM	福州捷雷电子科技有限公司	
Approval	Frank	Part No	A4	Drawing No	Rev A

WIFI 天线 包装规范

Packing 参照图