



深圳市欣博跃电子有限公司

Winstars Technology Ltd.

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样品承认书

文件编号：

欣博跃临时编号

欣博跃物料编号：2.15.5.00383

供应商开票名称：组装天线

欣博跃物料规格：组装天线 5.8G/5DBI高频板PCB板 9.9*126.6MM 线L=155MM 带 IPEX座

供应商开票规格：组装天线 5.8G/5DBI 高频板 PCB 板 9.9*126.6MM 线 L=155MM 带 IPEX 座

送样数量/最小包装数/开

票单位：送样数量：6个/最小包装数：无/开票单位：个

供应商名称：东莞市腾祥电子有限公司

供应商地址：东莞市长安镇沙头社区沙涌路53号

联系人全名/电话：袁廷旭 13649807086

制造商名称：东莞市腾祥电子有限公司

内页清单：☒ 电气原理 ☒ 样品设计图纸 ☒ 供应商样品测试检验报告
☐ 环保报告 ☒ 运输包装方式说明 ☐ 材料说明报告 ☐

以上由供应商填写，以下由欣博跃公司填写。

确认事由：☐ 新物料 ☐ 设计变更 ☐ 备份供应商 ☐ 其它

送检人：赵紫娟 应用機種：

料件判定	品质		工程		研 发		签 样	备 注
☐ 合格	检测		检测		检测			
☐ 不合格	审核		审核		审核			

承认内容附页说明：



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN5000-PCB22BX

Product Name: Antenna

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2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.10.24	初版	

Product Number:AN5000-PCB22BX

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	5150-5850 MHz
S.W.R. 驻波比	<= 2.0
Antenna Gain 增益	5.06dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD1.37mm ,Black
Connector Type 连接器规格	I-PEX
C. Environmental	
Storage Temperature 存储温度	-40°C ~ +80°C
Operation Temperature 工作温度	-40°C ~ +80°C

Product Number:AN5000-PCB22BX

Product Name: Antenna

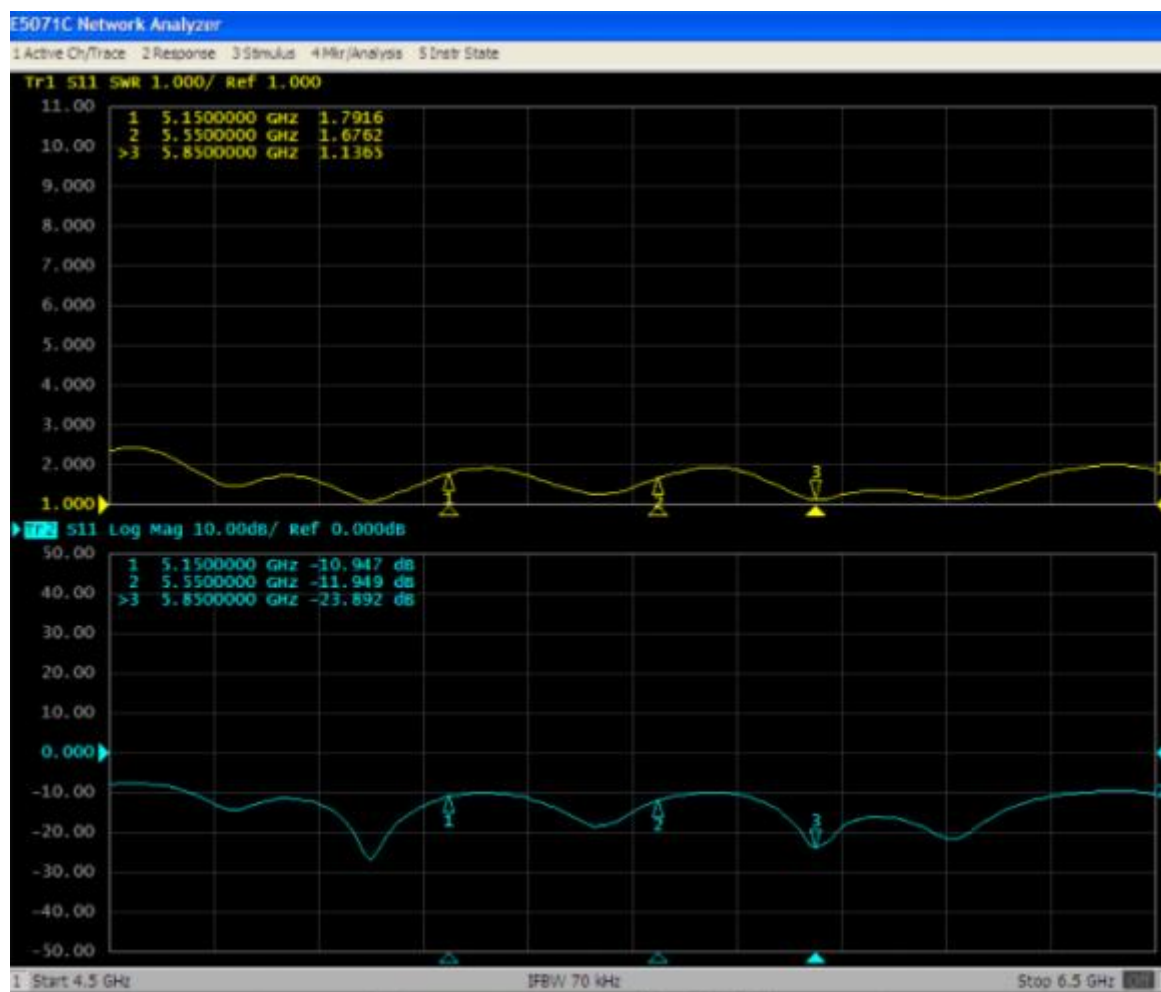
2. Characteristics and Reliability Test

Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Insertion Loss 插入损失	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
4	Solderability 可焊性	GB / T2423.28-2005 Temp: 260±5° C;Duration: 5 seconds 温度 260±5° C;持续 5 秒	Tin evenly on full 上锡均匀饱满	PASS
5	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal .单独定义产品端子拉力	1. Directive DUT specification 2. Frequency Tol.≤5% 符合待测物规范;频率偏移≤5%	PASS
6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.检查尺寸,颜色,材料,包装,表面处理	Directive DUT specification 符合待测物规范	PASS
7	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H 温度 35°C; 湿度≥95%;盐水浓度≥5%; 测试 24H	1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2015/863/EU 符合 RoHS 2015/863/EU 标准	PASS

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3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain (dBi)	4.88	4.78	4.92	4.96	4.69	4.84	4.99	5.06	4.92	4.80	4.93	4.85	4.86	4.77	4.72
Efficiency (%)	65.77	64.80	65.42	66.58	66.01	65.78	67.87	67.15	66.48	65.06	65.48	65.44	65.69	65.31	66.25

Product Number:AN5000-PCB22BX

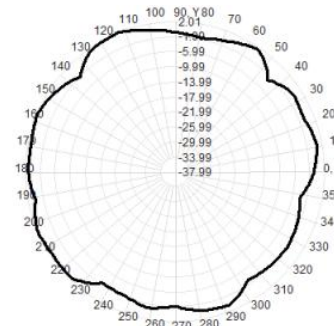
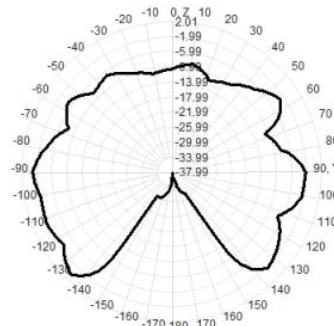
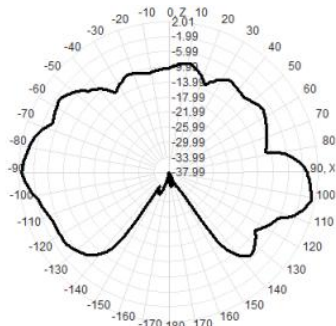
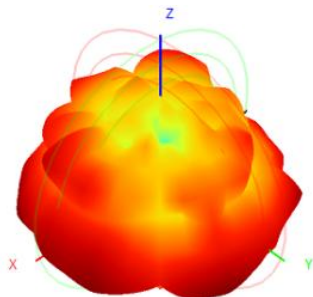
Product Name: Antenna

XZ

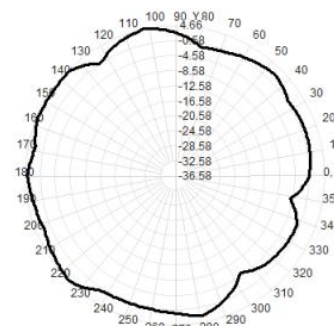
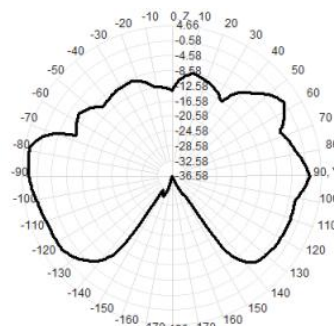
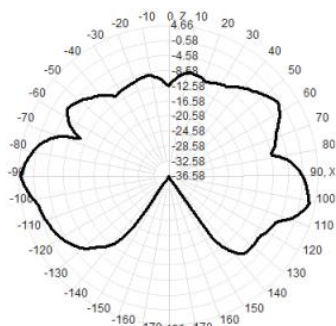
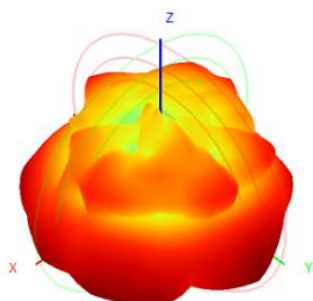
YZ

XY

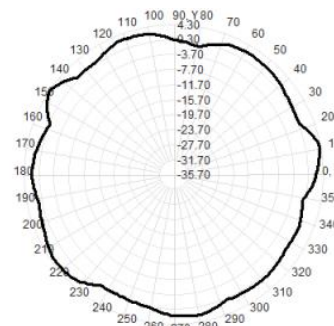
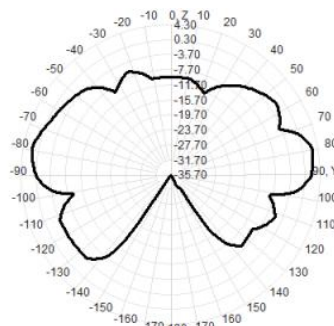
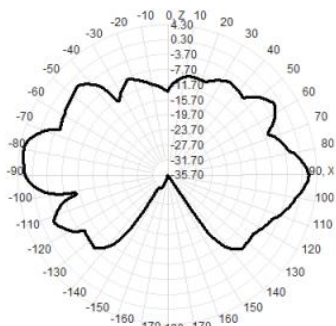
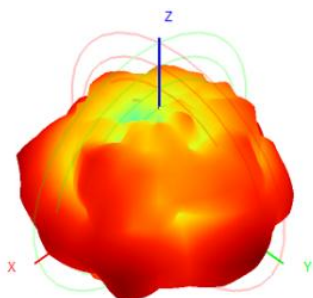
5150MHz



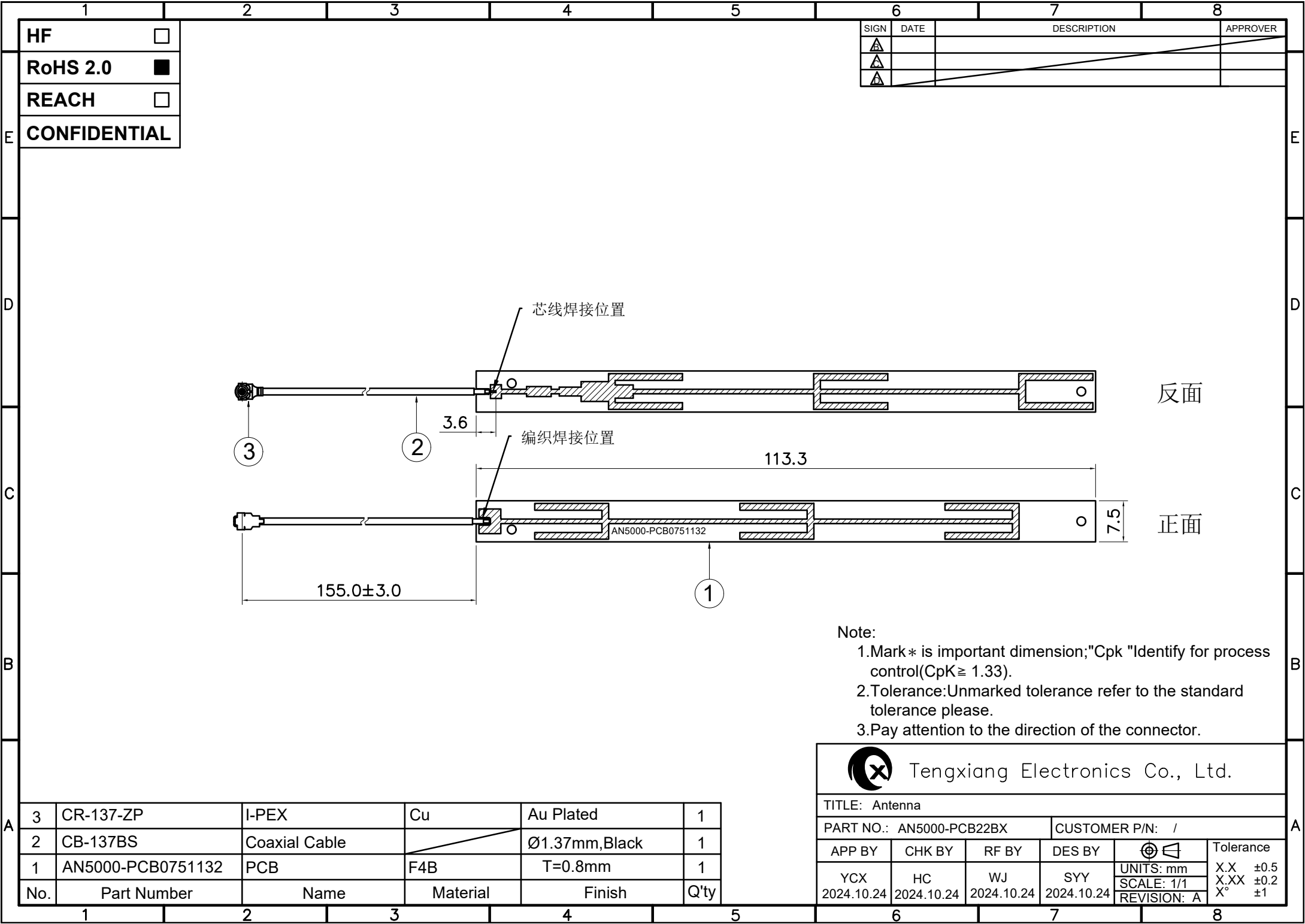
5550MHz



5850MHz



5. Mechanical Drawing See attached files



HF	☐
RoHS 2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

- Note:
- 1.Mark * is important dimension;"Cpk "Identify for process control(CpK≥ 1.33).
 - 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.
 - 3.Pay attention to the direction of the connector.



3	CR-137-ZP	I-PEX	Cu	Au Plated	1
2	CB-137BS	Coaxial Cable		Ø1.37mm,Black	1
1	AN5000-PCB0751132	PCB	F4B	T=0.8mm	1
No.	Part Number	Name	Material	Finish	Q'ty

TITLE: Antenna					
PART NO.: AN5000-PCB22BX				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY		X.X ±0.5
2024.10.24	2024.10.24	2024.10.24	2024.10.24		X.XX ±0.2
				UNITS: mm	X° ±1
				SCALE: 1/1	
				REVISION: A	