



腾祥电子
TENGXIANG ELECTRONIC

Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2450-175F01WX-B

Product Name: Antenna

Specification For Approval

Date: 2026.5.22

Version: 1.0

客户名称

Customer:

Shenzhen Qizhilian Technology Co., Ltd

客户料号

Customer P/N:

腾祥料号

TX P/N:

AN2450-175F01WX-B

规格描述

Description:

5G 黑色天线 1.13mm 白色线 L=35mm+ IPEX

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	路婷	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	陈祖喜	Q.C.DEPT. 品管	
APPROVED BY 核准	袁江福	APPROVED BY 核准	



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<http://www.tenxiang.cn>



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Product Number: AN2450-175F01WX-B

Product Name: Antenna

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6. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2026.5.22	初版	



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Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	5150-5850MHz
S.W.R. 驻波比	≤ 2.5 (端口网分测试)
Antenna Gain 增益	3.93dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	ABS
Cable Type 线材规格	OD1.13mm ,white
Connector Type 连接器规格	I-PEX
C. Environmental	
Storage Temperature 存储温度	- 30 °C ~ + 65 °C
Operation Temperature 工作温度	- 30 °C ~ + 65 °C



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Product Name: Antenna

2. Characteristics and Reliability Test

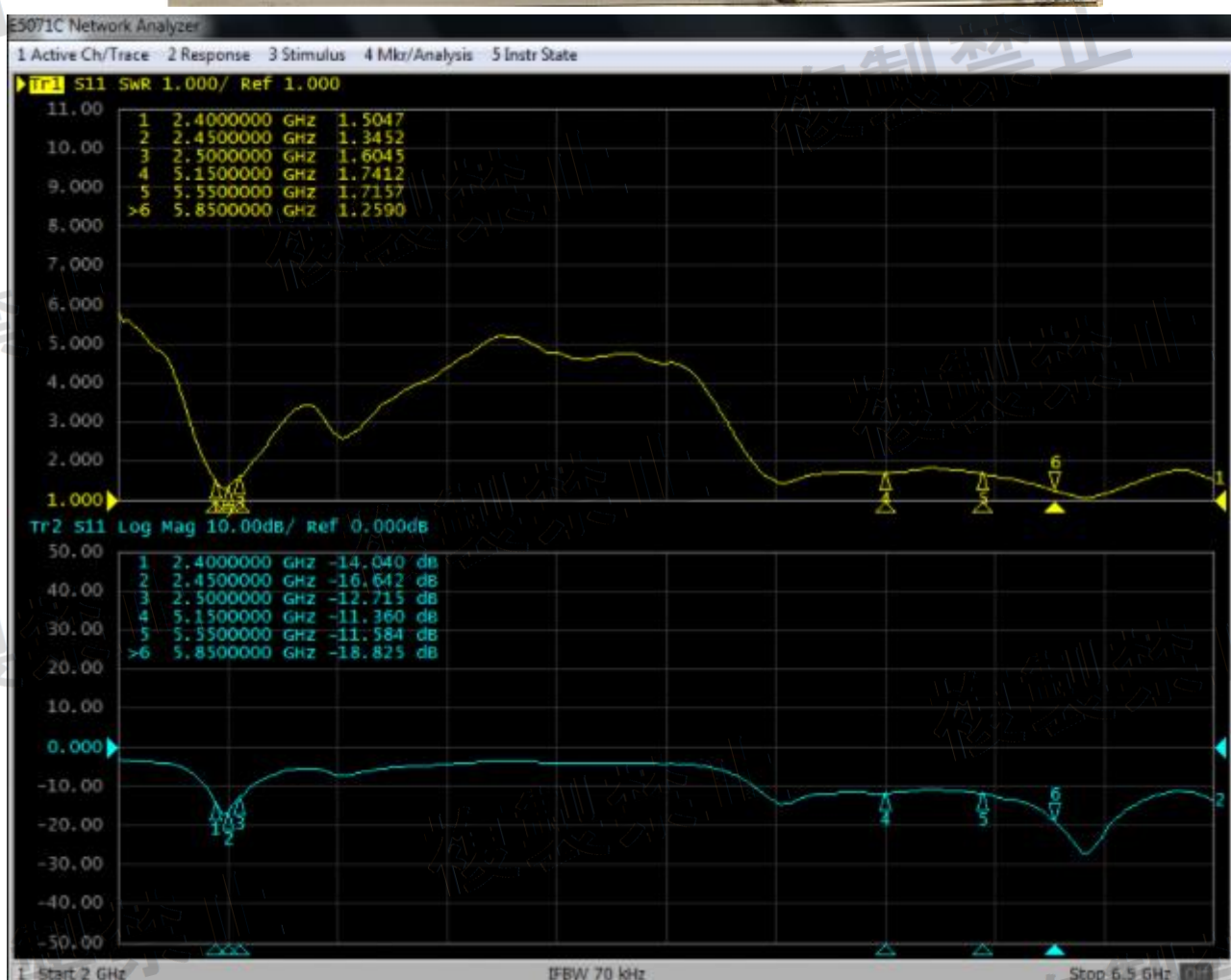
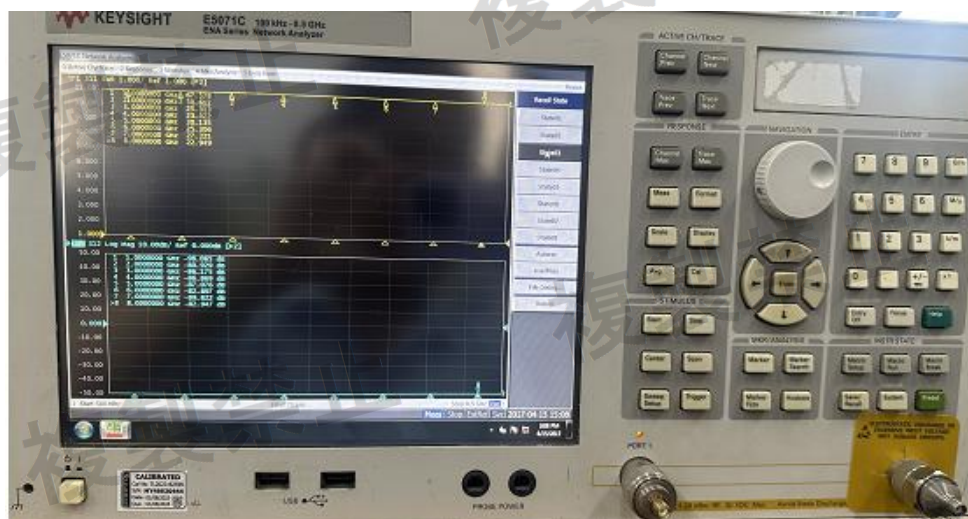
Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	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. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	PASS
4	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
5	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H 温度 35°C; 湿度 $\geq 95\%$; 盐水浓度 $\geq 5\%$; 测试 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
6	Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 65°C / 12 H; -30°C / 12H RH: $\geq 90\%$; Time: 24H 温度 65°C 测试 12H 转 -30°C 测试 12H; 湿度 $\geq 90\%$; 时间 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 恢复 2H 后, 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
7	Aging test 老化	GB / T 2423.2 - 2008 Temp: 65°C; Time: 24 hours 温度 65°C, 测试 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2011/65/EU 符合 RoHS 2015/863/EU 标准	PASS

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3. Antenna - S Parameter Test Data

测试仪器: VSWR 是使用安捷伦 E5071C 连接到治具来测试, 状态为自由空间。



Product Number: AN2450-175F01WX-B

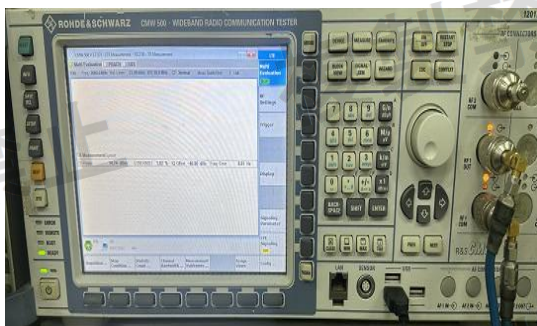
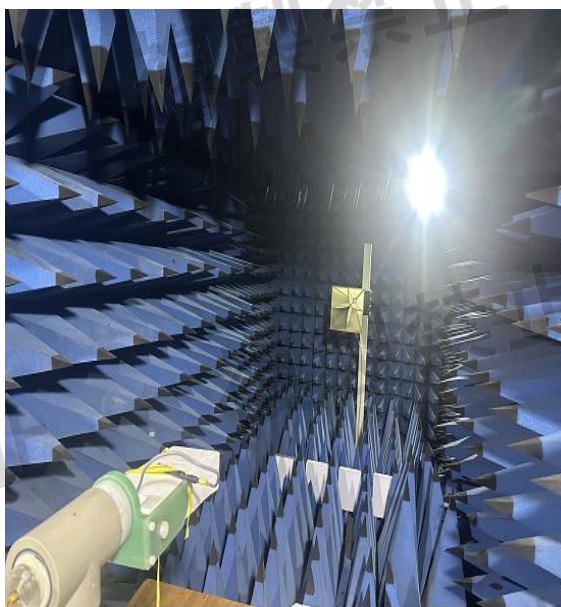
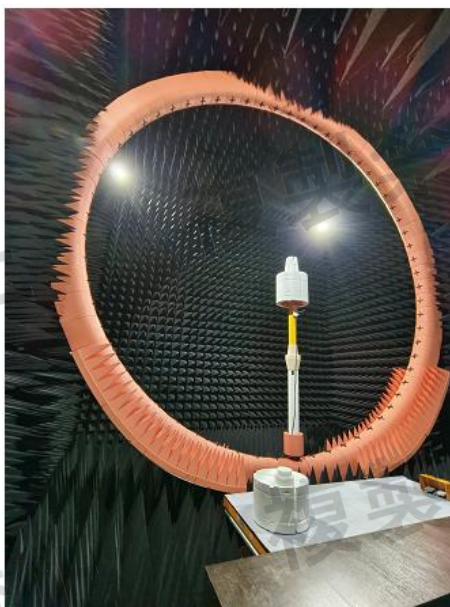
Product Name: Antenna

4. Test environment and equipment

暗室规格: 6m*6m*6m/7m*3m*3m

LTE-TDD/FDD-SCDMA 测试设备: ROHDE&SCHWARZ CMW500

无源效率测试设备: Agilent Technologies E5071B



Product Number: AN2450-175F01WX-B

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5. Antenna - Radiation Pattern Test Data

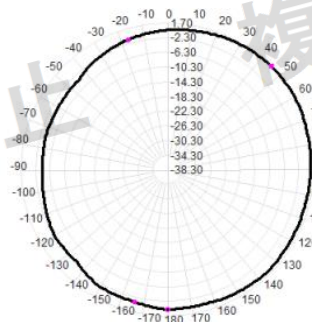
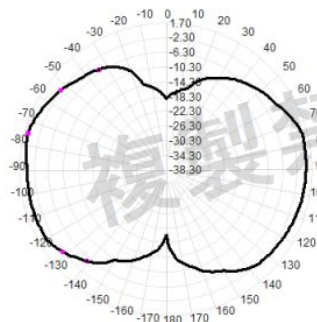
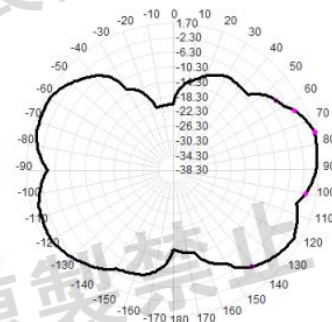
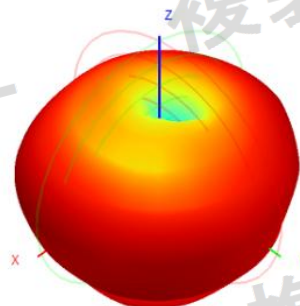
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
3.19	3.22	3.41	3.55	3.58	3.47	3.46	3.61	3.93	3.42	3.77	3.64	3.77	3.85	3.67
56.78	57.33	56.22	53.47	58.44	55.26	54.22	58.99	58.67	57.81	56.23	55.66	54.22	55.78	56.78

5150MHz

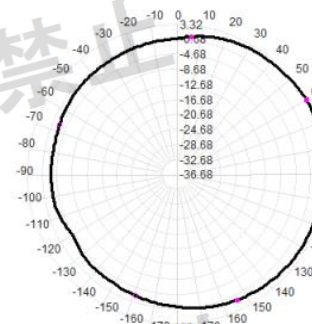
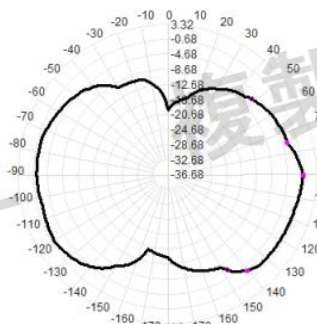
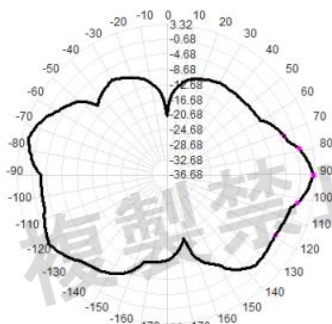
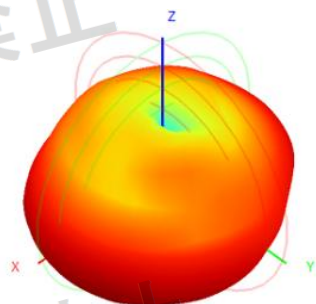
XZ

YZ

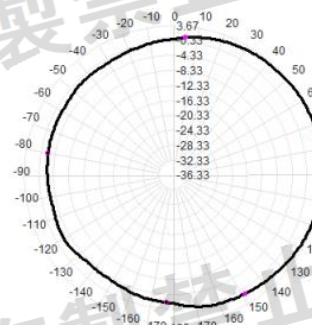
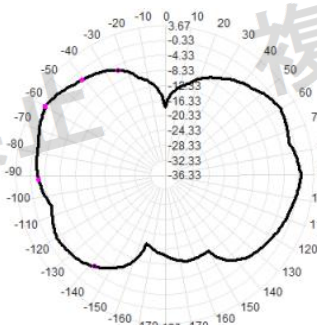
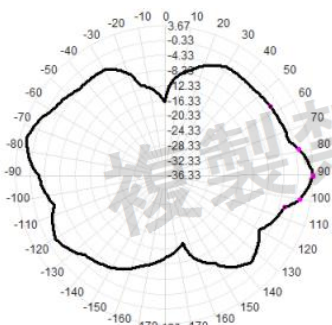
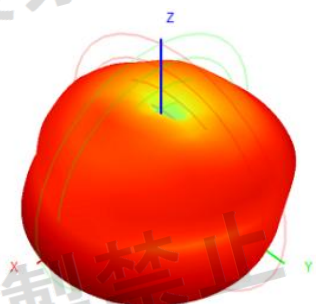
XY



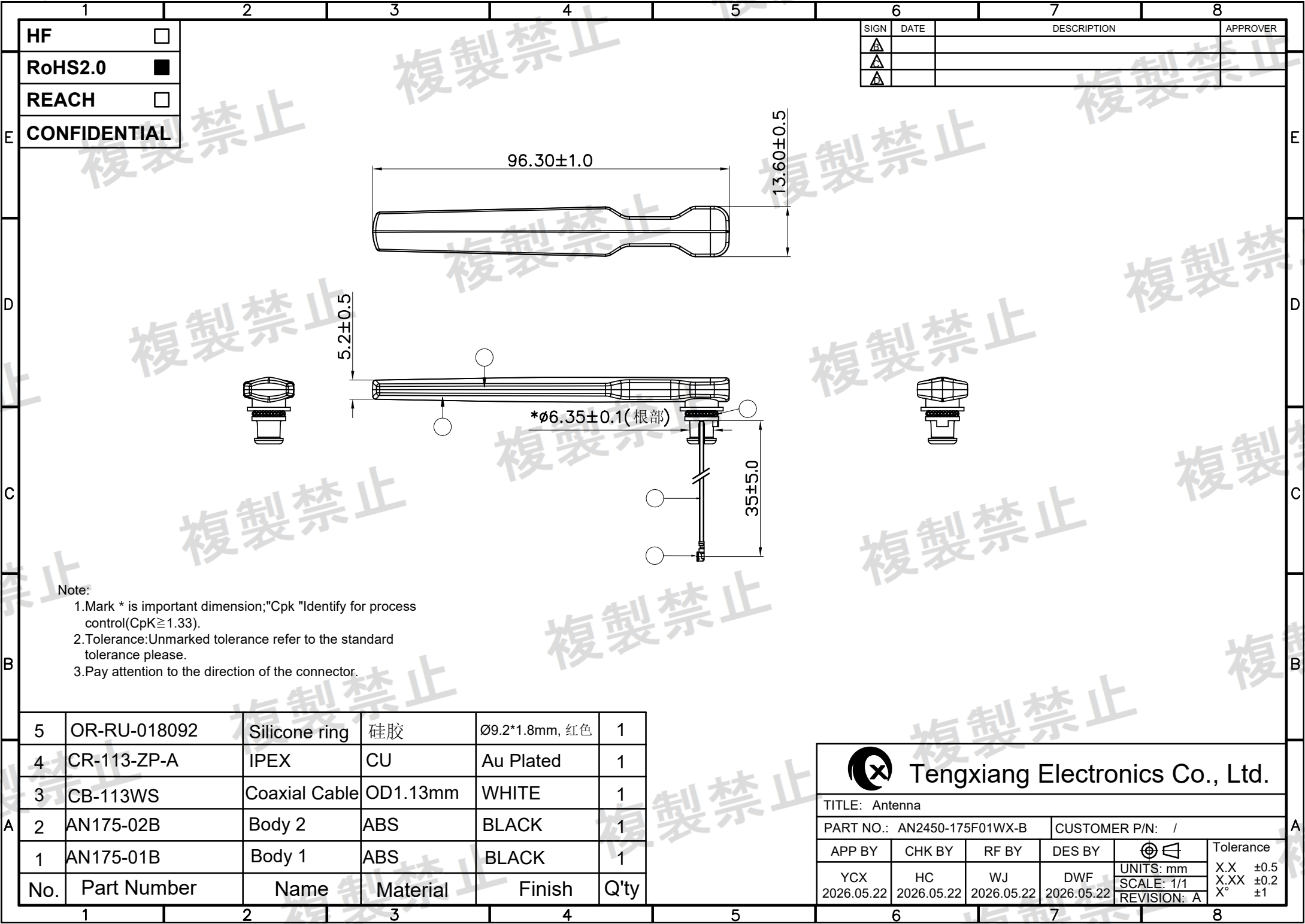
5550MHz



5850MHz



6. Mechanical Drawing See attached files



HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
☒			
☒			
☒			

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

5	OR-RU-018092	Silicone ring	硅胶	$\phi 9.2 \times 1.8$ mm, 红色	1
4	CR-113-ZP-A	IPEX	CU	Au Plated	1
3	CB-113WS	Coaxial Cable	OD1.13mm	WHITE	1
2	AN175-02B	Body 2	ABS	BLACK	1
1	AN175-01B	Body 1	ABS	BLACK	1
No.	Part Number	Name	Material	Finish	Q'ty

 Tengxiang Electronics Co., Ltd.					
TITLE: Antenna					
PART NO.: AN2450-175F01WX-B			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	DWF	UNITS: mm	X.X ± 0.5
2026.05.22	2026.05.22	2026.05.22	2026.05.22	SCALE: 1/1	X.XX ± 0.2
				REVISION: A	X° ± 1

產品包裝規範

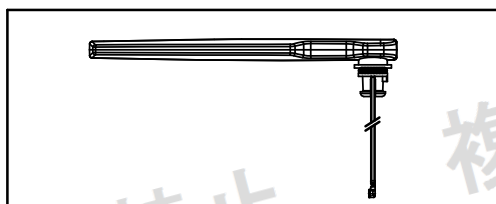
PACKING CRITERION

Date: 2026.05.22

Page: 1 of 1

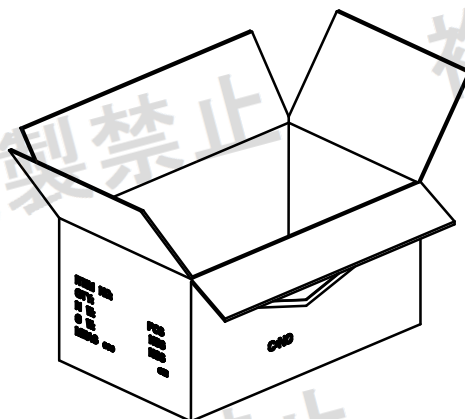
Part Number : AN2450-175F01WX-B	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



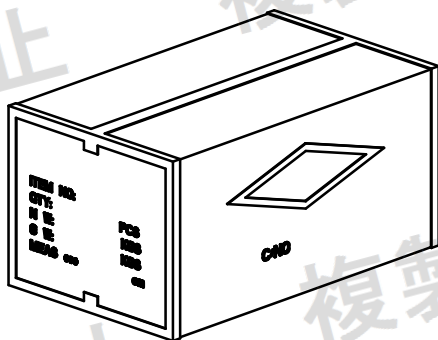
50pcs/ PE bag

2.PACKING。

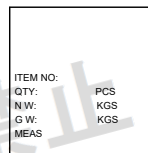


1000pcs/Carton

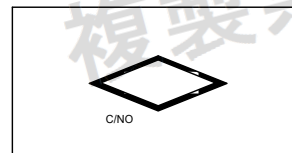
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : dwf