



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-TUB51GX

Product Name: Antenna

Specification For Approval

Date: 2024.1.24

Version: 1.0

客户名称

Customer:

神牛

客户料号

Customer P/N:

122-15113-000

腾祥料号

T X P/N:

AN2400-TUB51GX

规格描述

Description :

2.4G 铜管天线 1.13mm 灰色线 L=150mm+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	方伟明	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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Index:

1. Specification (规格)
2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
3. Antenna - S Parameter Test Data (样品测试数据)
4. Antenna - Radiation Pattern Test Data (辐射模式测试数据)
5. Mechanical and Packing Drawing (图纸包装规范)

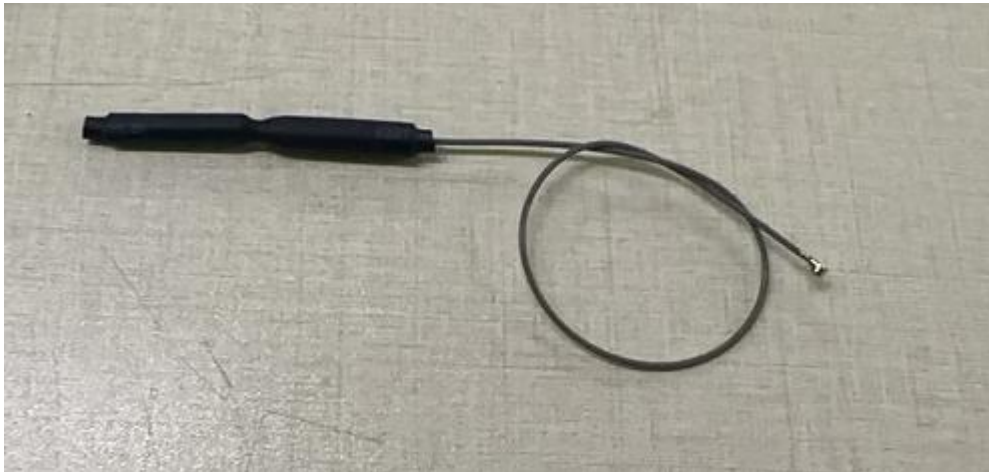
Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.1.24	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400 -2500MHz
S.W.R. 驻波比	<= 2.0
Antenna Gain 增益	2.50dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD1.13mm , gray
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
Antenna Color Storage life 天线颜色存储寿命	< 2 year

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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: 80°C / 12 H; -40°C / 12H RH: $\geq 90\%$; Time: 24H 温度 80°C 测试 12H 转 -40°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: 80°C; Time: 24 hours 温度 80°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

Product Number: AN2400-TUB51GX

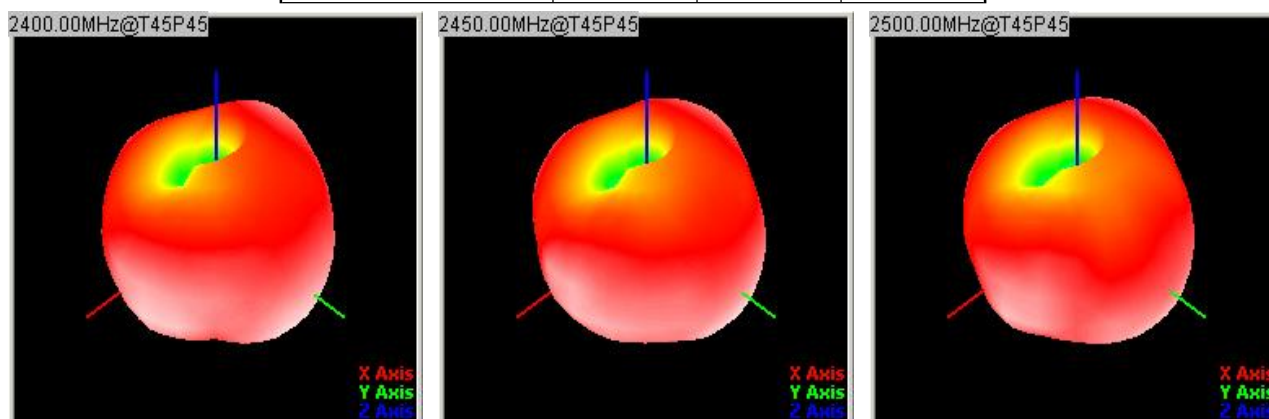
Product Name: Antenna

3. Antenna - S Parameter Test Data

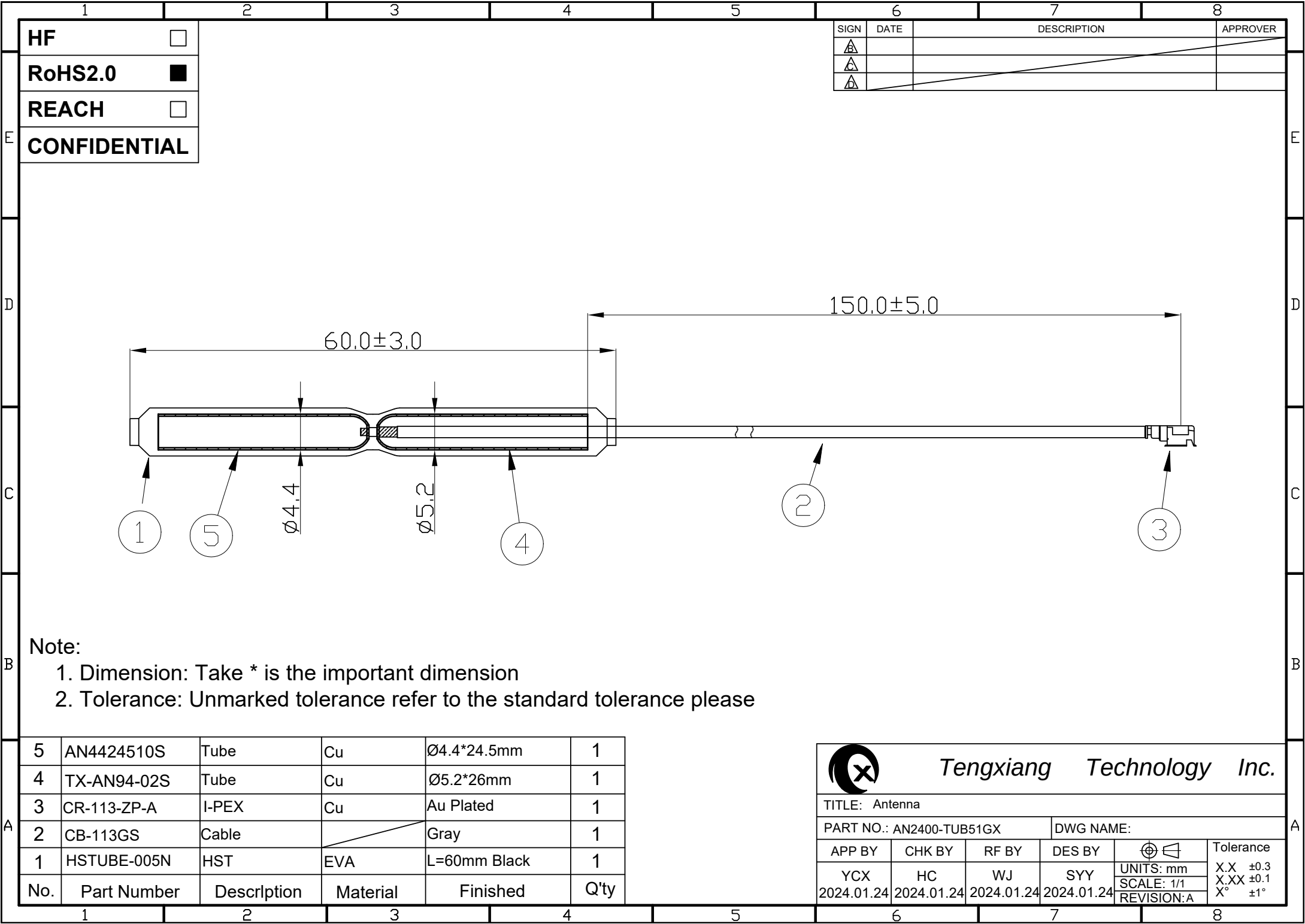


4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	2400.0	2450.0	2500.0
Efficiency (%)	83.80	85.60	82.40
Gain (dBi)	2.36	2.50	2.42



5. Mechanical Drawing See attached files



HF ☐
RoHS2.0 ☒
REACH ☐
CONFIDENTIAL

SIGN	DATE	DESCRIPTION	APPROVER

- Note:
1. Dimension: Take * is the important dimension
 2. Tolerance: Unmarked tolerance refer to the standard tolerance please

5	AN4424510S	Tube	Cu	Ø4.4*24.5mm	1
4	TX-AN94-02S	Tube	Cu	Ø5.2*26mm	1
3	CR-113-ZP-A	I-PEX	Cu	Au Plated	1
2	CB-113GS	Cable		Gray	1
1	HSTUBE-005N	HST	EVA	L=60mm Black	1
No.	Part Number	Desrcption	Material	Finished	Q'ty



Tengxiang Technology Inc.

TITLE: Antenna

PART NO.: AN2400-TUB51GX

DWG NAME:

APP BY	CHK BY	RF BY	DES BY		Tolerance	
YCX	HC	WJ	SY		UNITS: mm	X.X ±0.3
2024.01.24	2024.01.24	2024.01.24	2024.01.24		SCALE: 1/1	X.XX ±0.1
					REVISION:A	X° ±1°

PACKING CRITERION

Date: 2024.01.24

Page: 1 of 1

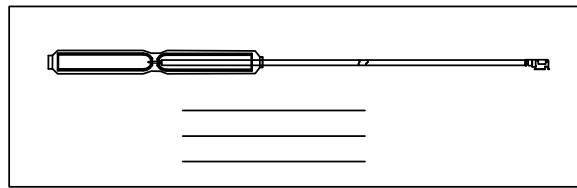
Part Number : AN2400-TUB51GX

Revision : A

Name: Antenna

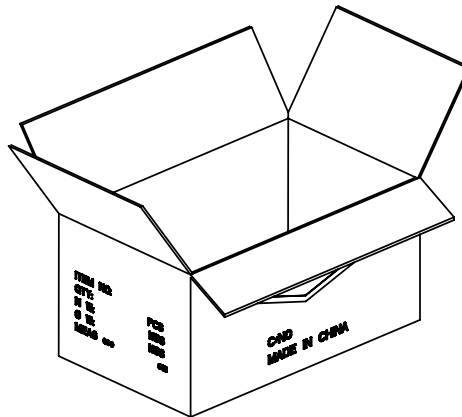
Customer : ALL

1 . Enter PE bag。



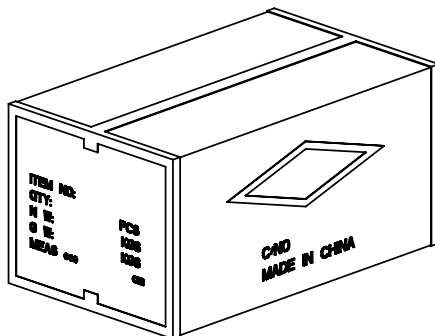
100pcs/ PE bag

2.PACKING 。



3. SEALING。

数量按照实际数量为准



APPROVED BY: YCX

CHECKED BY: HC

DESIGNED BY: SY Y