



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-PCB10645

Product Name: Antenna

Specification For Approval

Date: 2022.11.25

Version: 1.0

客户名称

Customer:

客户料号

Customer P/N:

腾祥料号

TX P/N:

AN2400-PCB10645

规格描述

Description :

2.4G ,PCB 黑色

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	李艳坪	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	袁旭阳	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2022.11.25	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	-0.08dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	PCB
Connector Type 连接器规格	/
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C

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.	Set DUT on Network Analyzer; make individual	Directive DUT specification PASS

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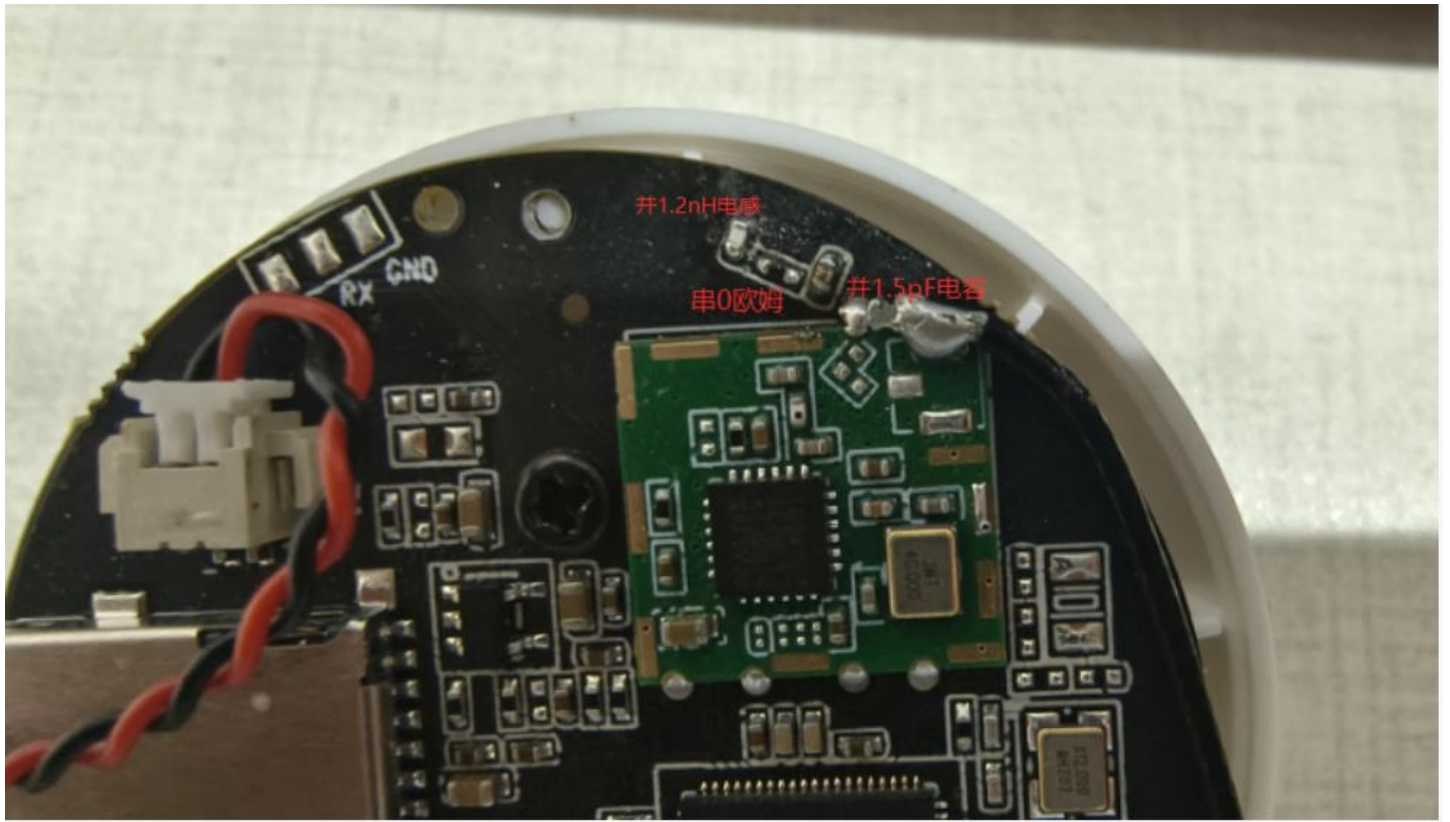
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	电压驻波比	calibration to test 设置网络分析仪参数进行测试	符合待测物规范	
2	Insertion Loss 插入损失	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual 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

3. Antenna - S Parameter Test Data

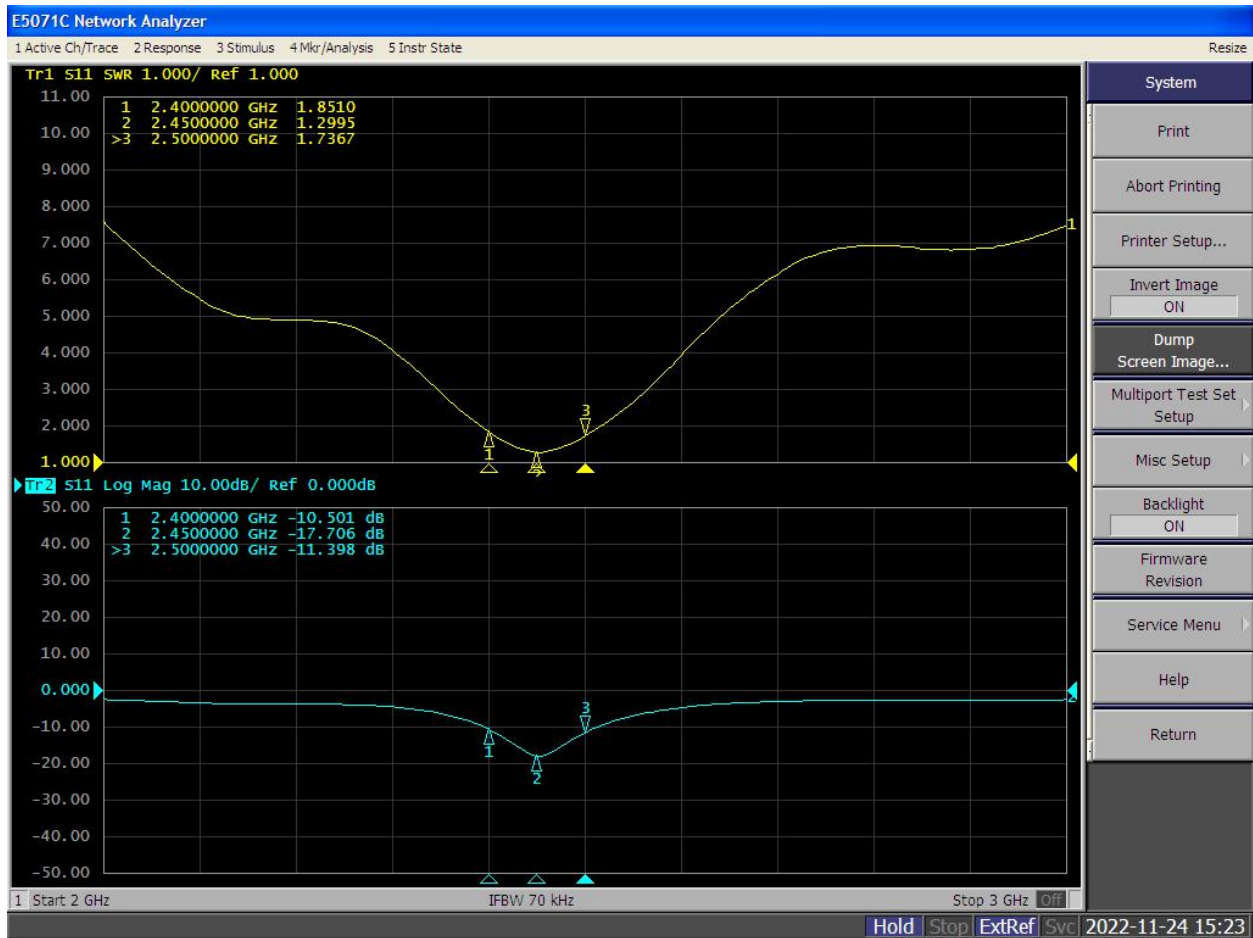
Product Number: AN2400-PCB10645

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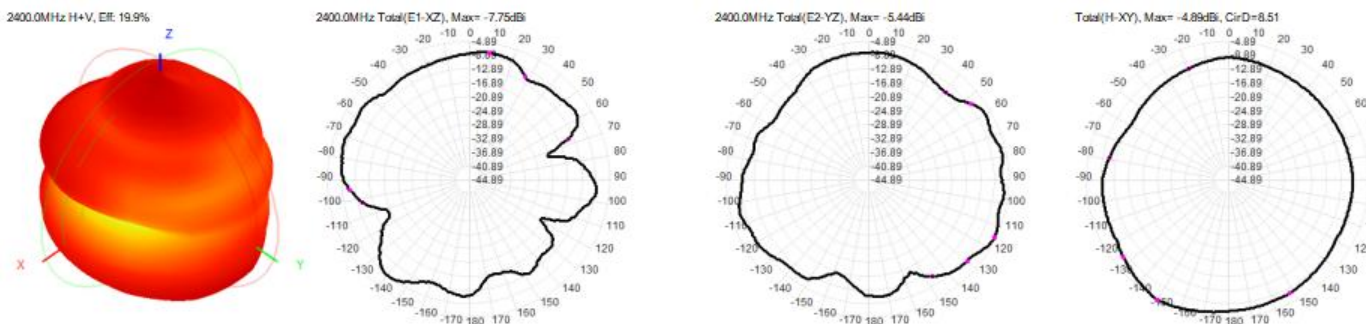
Product Number: AN2400-PCB10645

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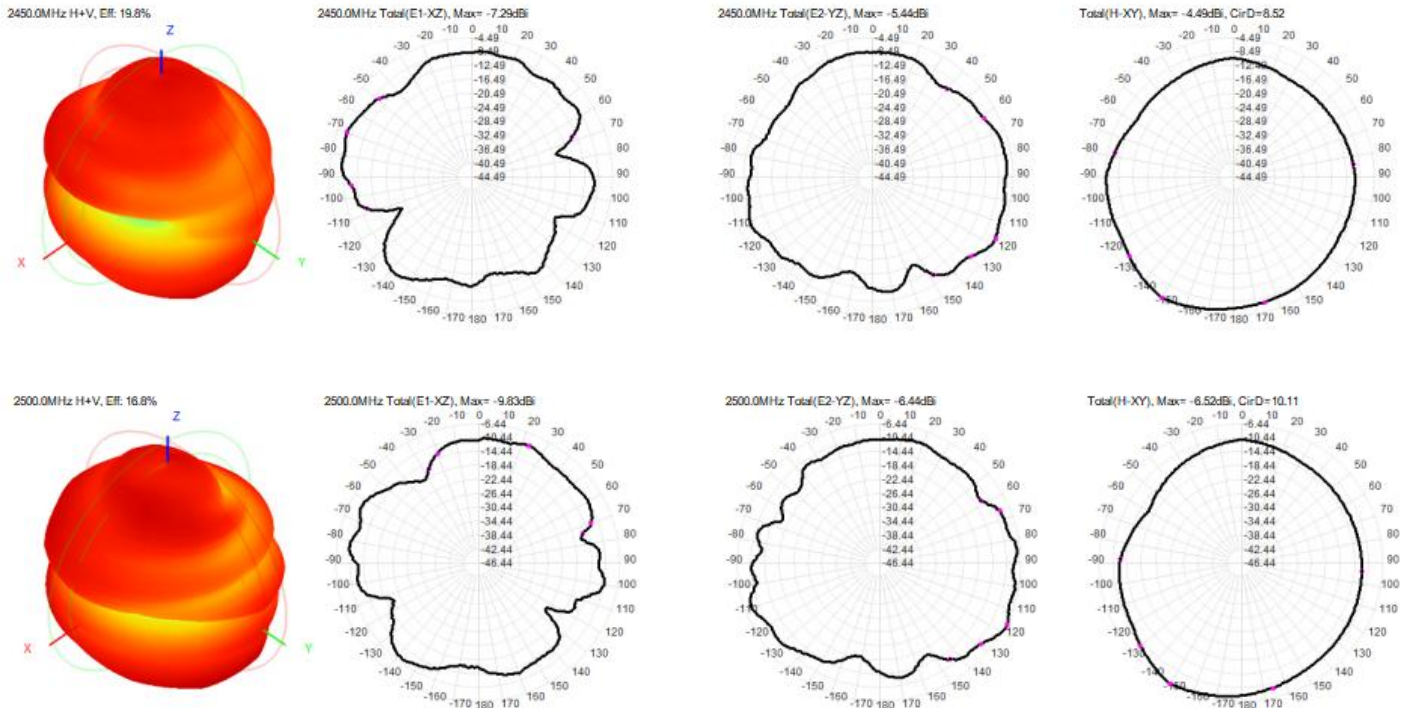
4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-0.89	-0.79	-0.56	-0.47	-0.08	-0.34	-0.62	-0.56	-0.37	-0.82	-75.00
Efficiency (%)	19.90	19.98	20.13	20.09	20.17	19.82	19.09	18.42	17.91	17.38	16.82



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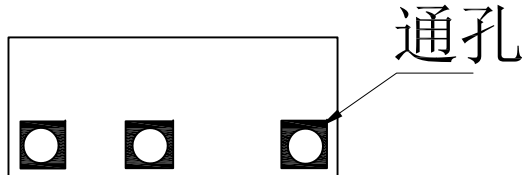
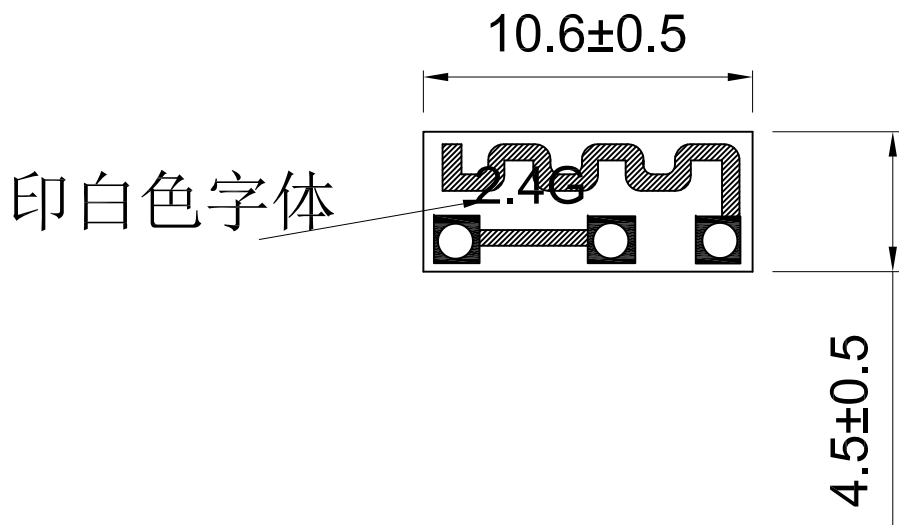
Product Name: Antenna



5. Mechanical Drawing See attached files

HF
 RoHS
 REACH
 CONFIDENTIAL

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



备注:
 1.材质: PCB(FR4) T=1.2mm
 2.颜色/表面处理: 双面过黑油;白色印字
 3.尺寸: 带* 为重点尺寸;带Cpk尺寸需做制程能力管控 (≥ 1.33)
 4.公差: 未标注公差请参照标准公差.

Tengxiang Electronics Co., Ltd.

TITLE: 2.4G PCB

PART NO.: AN2400-PCB10645 CUSTOMER P/N: /

APP BY	CHK BY	RF BY	DES BY		Tolerance
			DWF	UNITS: mm	X.X ±0.10
			2022.11.17	SCALE: 1/1	X.XX ±0.05
				REVISION: A	X° ±1

產品包裝規範

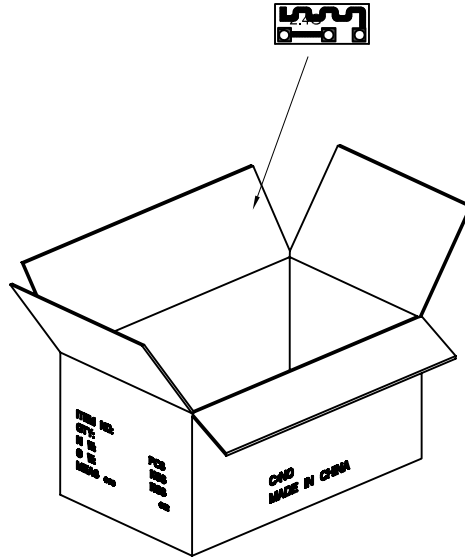
PACKING CRITERION

Date: 2022.11.25

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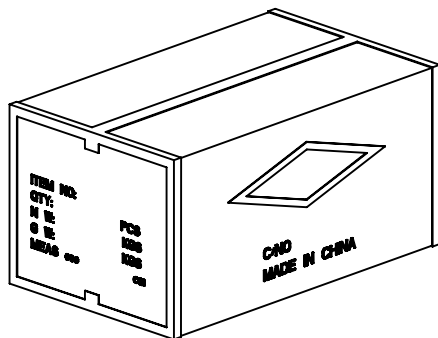
Part Number : AN2400-PCB10645	Revision : A
Name: 2.4G PCB	Customer : ALL

1. PACKING ◦

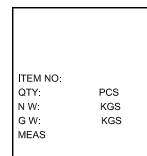


8000pcs/Carton

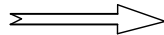
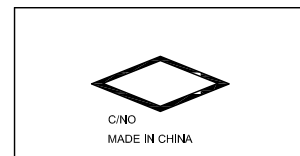
2. SEALING ◦



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF