



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-PCB164BX

Product Name: Antenna

Specification For Approval

Date: 2024.8.02

Version: 1.0

客户名称

Customer:

敏视

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-PCB164BX

规格描述

Description :

2.4G PCB 天线1.13mm 黑色线 L=90mm +IPEX

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	苏业阳	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	祁志鹏	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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Product Number:AN2400-PCB164BX

Product Name: Antenna

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.08.02	1.0	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500 MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	0.57 dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD1.13mm ,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

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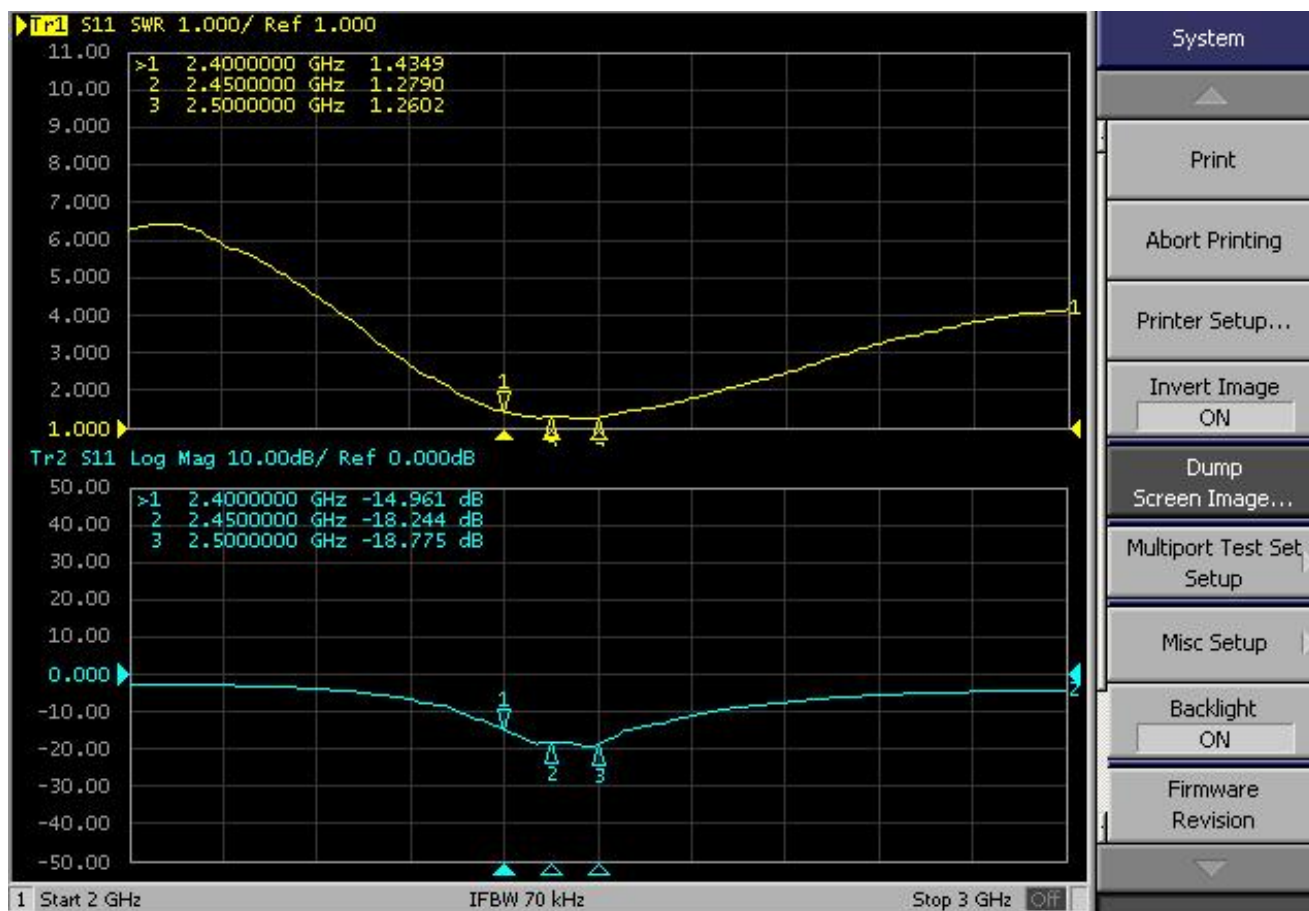
2. Characteristics and Reliability Test

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	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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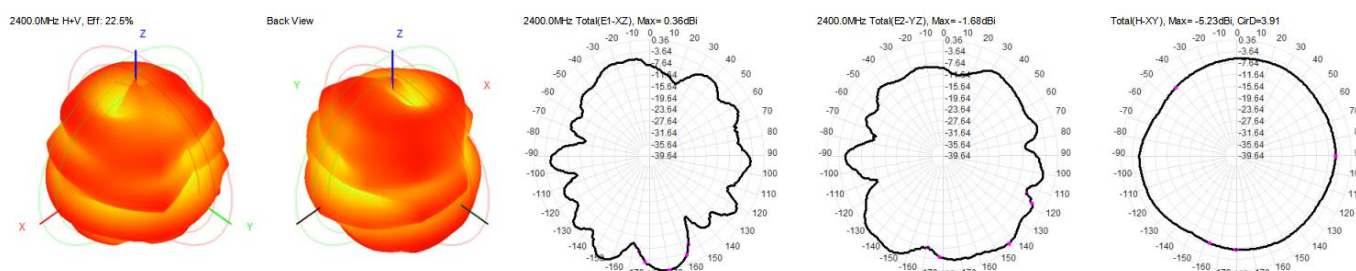
Product Name: Antenna

3. Antenna - S Parameter Test Data



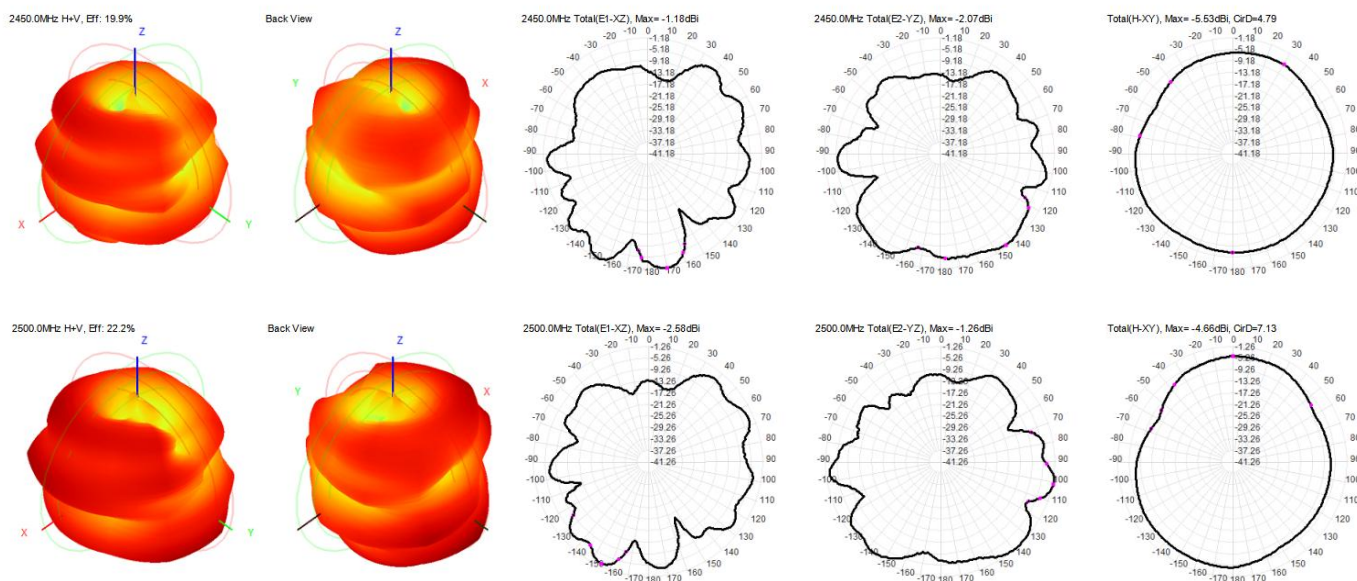
4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	2400.0	2450.0	2500.0
Gain (dBi)	0.57	-0.58	-1.26
Efficiency (%)	22.46	19.89	22.24



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5. Mechanical Drawing See attached files

1	2	3	4	5	6	7	8																																																												
HF☐ RoHS 2.0☒ REACH☐ CONFIDENTIAL					<table><tr><td>SIGN</td><td>DATE</td><td>DESCRIPTION</td><td>APPROVER</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>			SIGN	DATE	DESCRIPTION	APPROVER																																																								
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B	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.						B																																																												
A	<table><tr><td>3</td><td>CR-113-ZP-A</td><td>I-PEX</td><td>Cu</td><td>Au Plated</td><td>1</td></tr><tr><td>2</td><td>CB-113BS</td><td>Coaxial Cable</td><td></td><td>Ø1.13mm,Black</td><td>1</td></tr><tr><td>1</td><td>AN2400-PCB285055</td><td>PCB</td><td>FR4</td><td>Green T=0.6mm</td><td>1</td></tr><tr><td>No.</td><td>Part Number</td><td>Name</td><td>Material</td><td>Finish</td><td>Q'ty</td></tr></table>					3	CR-113-ZP-A	I-PEX	Cu	Au Plated	1	2	CB-113BS	Coaxial Cable		Ø1.13mm,Black	1	1	AN2400-PCB285055	PCB	FR4	Green T=0.6mm	1	No.	Part Number	Name	Material	Finish	Q'ty	Tengxiang Electronics Co., Ltd. <table><tr><td colspan="4">TITLE: Antenna</td></tr><tr><td colspan="2">PART NO.: AN2400-PCB164BX</td><td colspan="2">CUSTOMER P/N: /</td></tr><tr><td>APP BY</td><td>CHK BY</td><td>RF BY</td><td>DES BY</td></tr><tr><td>YCX</td><td>HC</td><td>WJ</td><td>SY</td></tr><tr><td>2024.08.02</td><td>2024.08.02</td><td>2024.08.02</td><td>2024.08.02</td></tr><tr><td colspan="3">UNITS: mm</td><td>Tolerance</td></tr><tr><td colspan="3">SCALE: 1/1</td><td>X.X ±0.5</td></tr><tr><td colspan="3">REVISION: A</td><td>X.XX ±0.2</td></tr><tr><td colspan="3"></td><td>X° ±1</td></tr></table>		TITLE: Antenna				PART NO.: AN2400-PCB164BX		CUSTOMER P/N: /		APP BY	CHK BY	RF BY	DES BY	YCX	HC	WJ	SY	2024.08.02	2024.08.02	2024.08.02	2024.08.02	UNITS: mm			Tolerance	SCALE: 1/1			X.X ±0.5	REVISION: A			X.XX ±0.2				X° ±1
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產品包裝規範

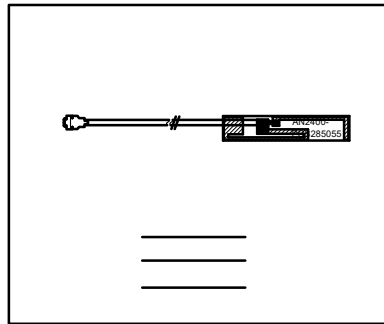
PACKING CRITERION

Date: 2024.08.02

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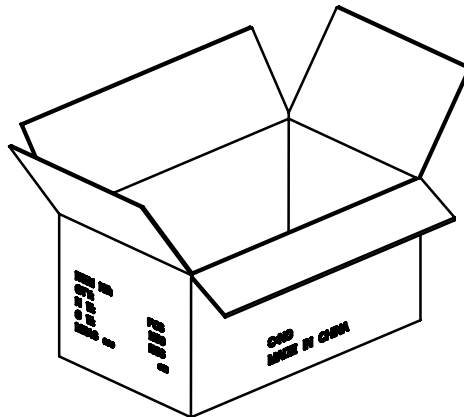
Part Number : AN2400-PCB164BX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



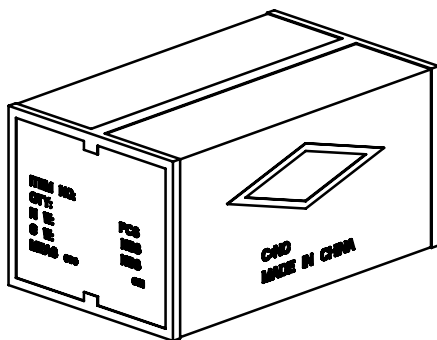
100pcs/ PE bag

2.PACKING。

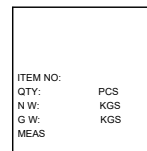


8000pcs/Carton

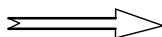
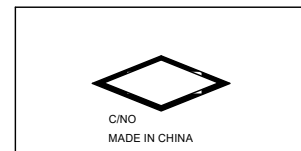
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX CHECKED BY : HC DESIGNED BY : SY Y