



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-5835BX-B

Product Name: Antenna

Specification For Approval

Date: 2024.12.28

Version: 1.0

客户名称

Customer:

瑞博斯

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-5835BX-B

规格描述

Description :

2.4G 黑色天线 1.37mm 黑色线 L=105mm+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	江美如	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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东莞市腾祥电子有限公司

Product Number: AN2400-5835BX-B

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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	2024.12.28	初版	

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Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500MHz
S.W.R. 驻波比	<= 2.0
Antenna Gain 增益	3.0dBi
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	OD1.37mm , Black
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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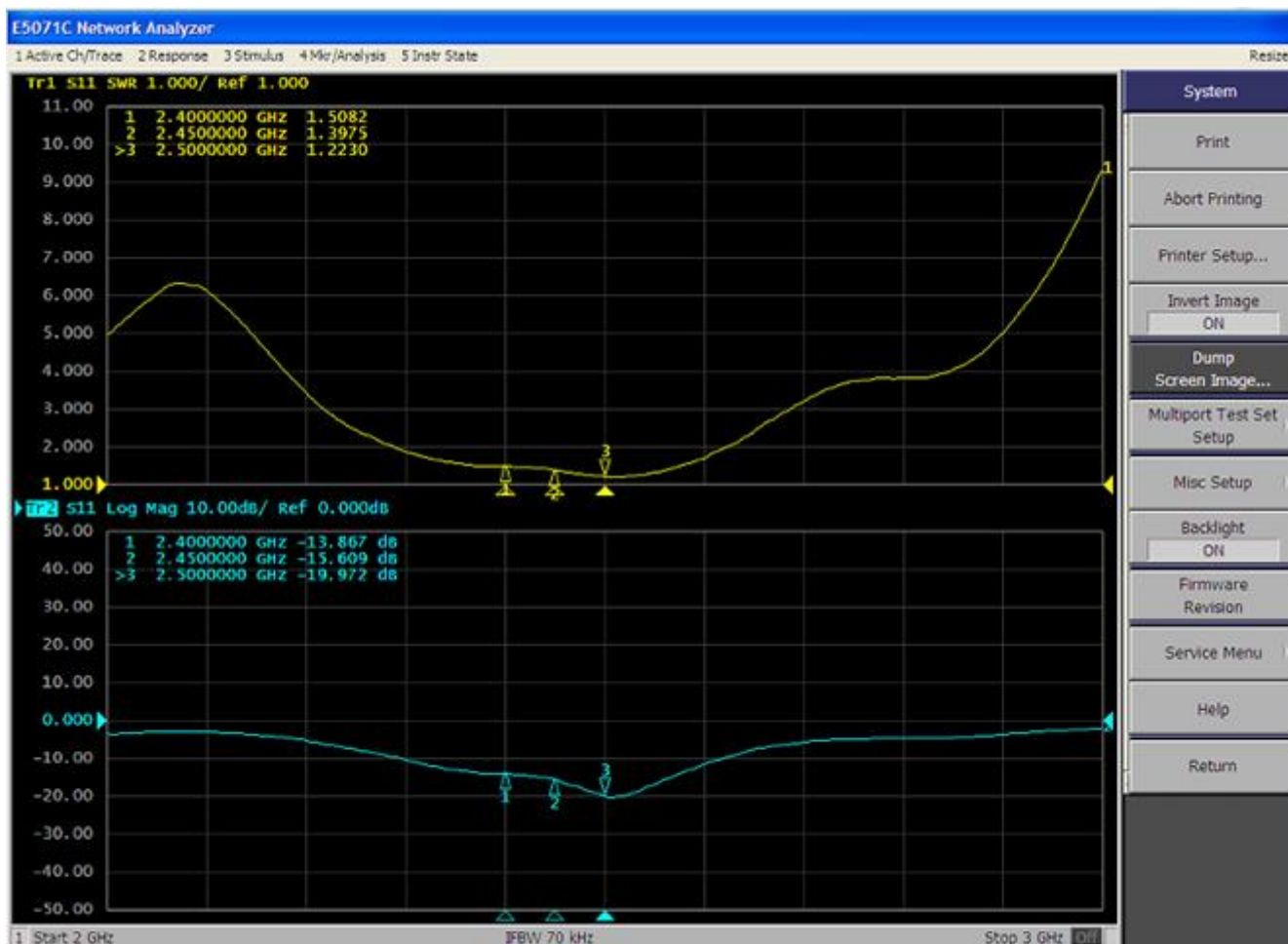
2. Characteristics and Reliability Test

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



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)	2.75	2.75	2.88	2.86	2.99	3.00	2.93	2.89	2.82	2.77	2.67
Efficiency (%)	62.24	62.54	64.27	63.69	64.70	61.86	58.56	55.97	53.97	53.39	52.45

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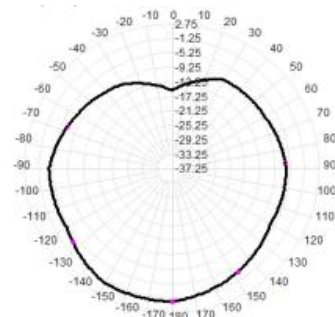
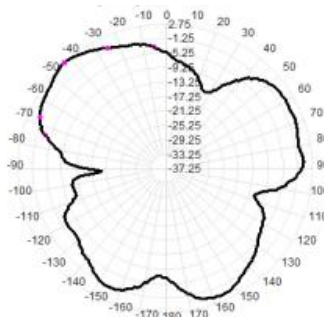
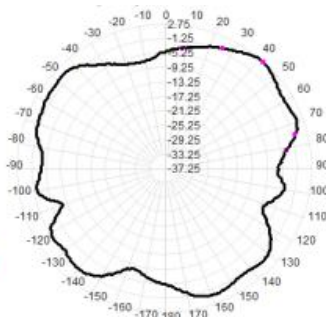
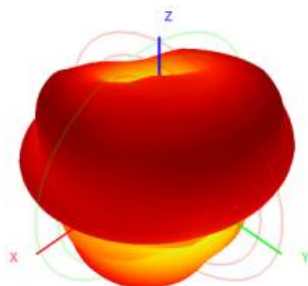
Product Name: Antenna

XZ

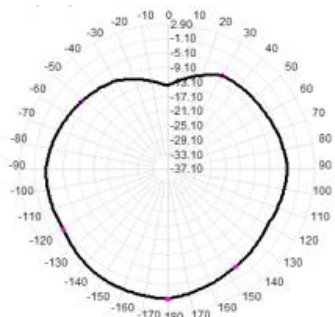
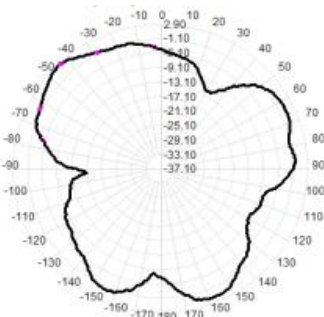
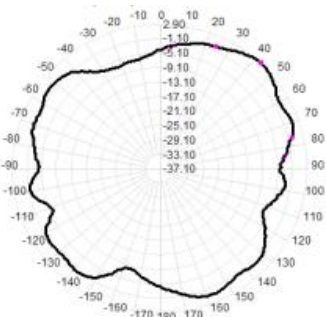
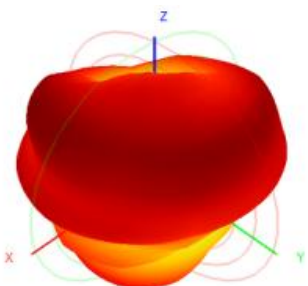
YZ

XY

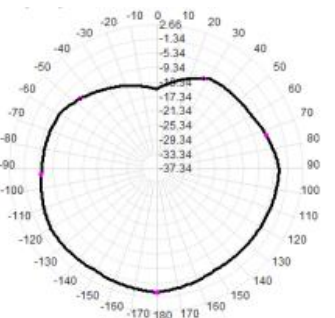
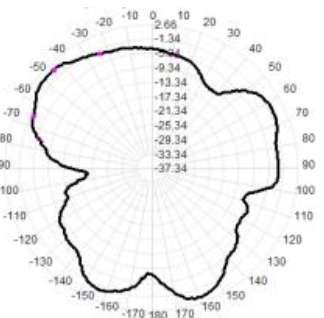
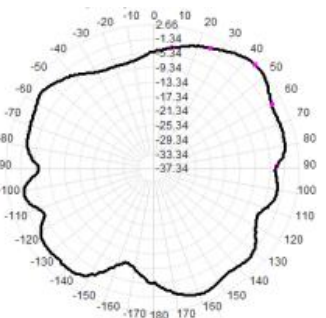
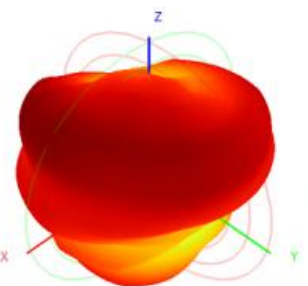
2400MHz



2450MHz



2500MHz



5. Mechanical Drawing See attached files

1	2	3	4	5	6	7	8																																				
HF☐ RoHS2.0☒ 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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Note: 1. Dimension: Take * is the important dimension 2. Tolerance: Unmarked tolerance refer to the standard tolerance please																																											
<table><tr><td>5</td><td>CR-137-ZP</td><td>IPEX</td><td>CU</td><td>Au Plated</td><td>1</td></tr><tr><td>4</td><td>CB-137BS</td><td>Coaxial Cable</td><td>OD1.37mm</td><td>Black</td><td>1</td></tr><tr><td>3</td><td>SMA-RU-70125</td><td>Silicone ring</td><td>SR</td><td>RED</td><td>1</td></tr><tr><td>2</td><td>ANT58-03B</td><td>Body 2</td><td>ABS</td><td>BLACK</td><td>1</td></tr><tr><td>1</td><td>ANT58-01B</td><td>Body 1</td><td>ABS</td><td>BLACK</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>								5	CR-137-ZP	IPEX	CU	Au Plated	1	4	CB-137BS	Coaxial Cable	OD1.37mm	Black	1	3	SMA-RU-70125	Silicone ring	SR	RED	1	2	ANT58-03B	Body 2	ABS	BLACK	1	1	ANT58-01B	Body 1	ABS	BLACK	1	No.	Part Number	Name	Material	Finish	Q'ty
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No.	Part Number	Name	Material	Finish	Q'ty																																						
Tengxiang Technology Inc. TITLE: 2.4G Antenna PART NO.: AN2400-5835BX-B DWG NAME: <table><tr><td>APP BY</td><td>CHK BY</td><td>RF BY</td><td>DES BY</td><td></td><td>Tolerance</td></tr><tr><td>YCX</td><td>HC</td><td>WJ</td><td>DWF</td><td>UNITS: mm</td><td>X.X ±0.5</td></tr><tr><td>2024.12.28</td><td>2024.12.28</td><td>2024.12.28</td><td>2024.12.28</td><td>SCALE: 1/1</td><td>X.XX ±0.2</td></tr><tr><td colspan="5">REVISION: A</td><td>X° ±1°</td></tr></table>								APP BY	CHK BY	RF BY	DES BY		Tolerance	YCX	HC	WJ	DWF	UNITS: mm	X.X ±0.5	2024.12.28	2024.12.28	2024.12.28	2024.12.28	SCALE: 1/1	X.XX ±0.2	REVISION: A					X° ±1°												
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REVISION: A					X° ±1°																																						

產品包裝規範

PACKING CRITERION

Date: 2024.12.28

Page: 1 of 1

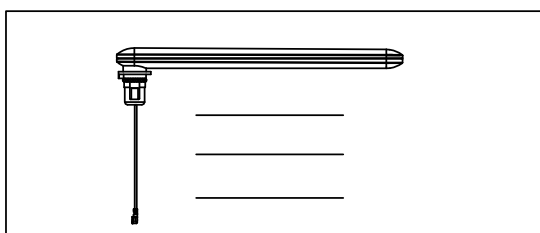
Part Number : AN2400-5835AX-B

Revision : A

Name: Antenna

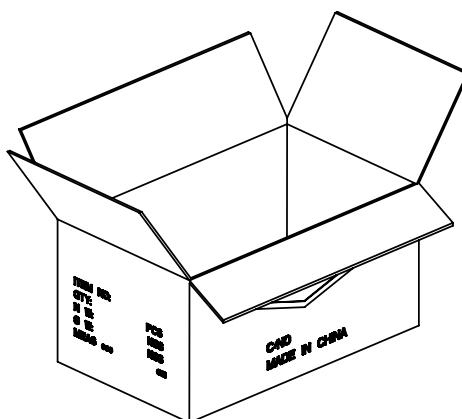
Customer : ALL

1 . Enter PE bag。



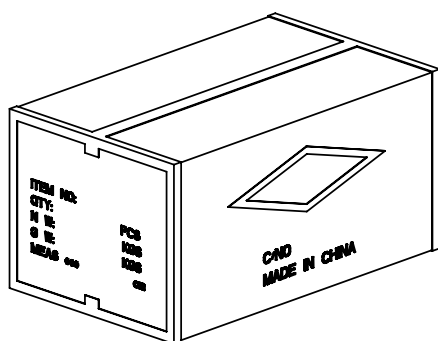
50pcs/ PE bag

2.PACKING 。

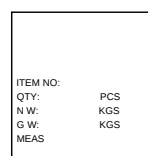


1000pcs/Carton

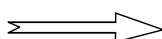
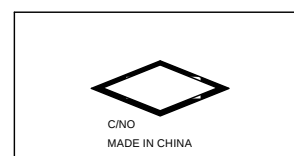
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF