



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:

RUIBOSI ELECTRONIC CO.,LTD.

客户料号

Customer P/N:

腾祥料号

TX P/N:

AN2400-5835BX-B

规格描述

Description :

2.4G Black ANT 1.37mm L=105mm+IPEX

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



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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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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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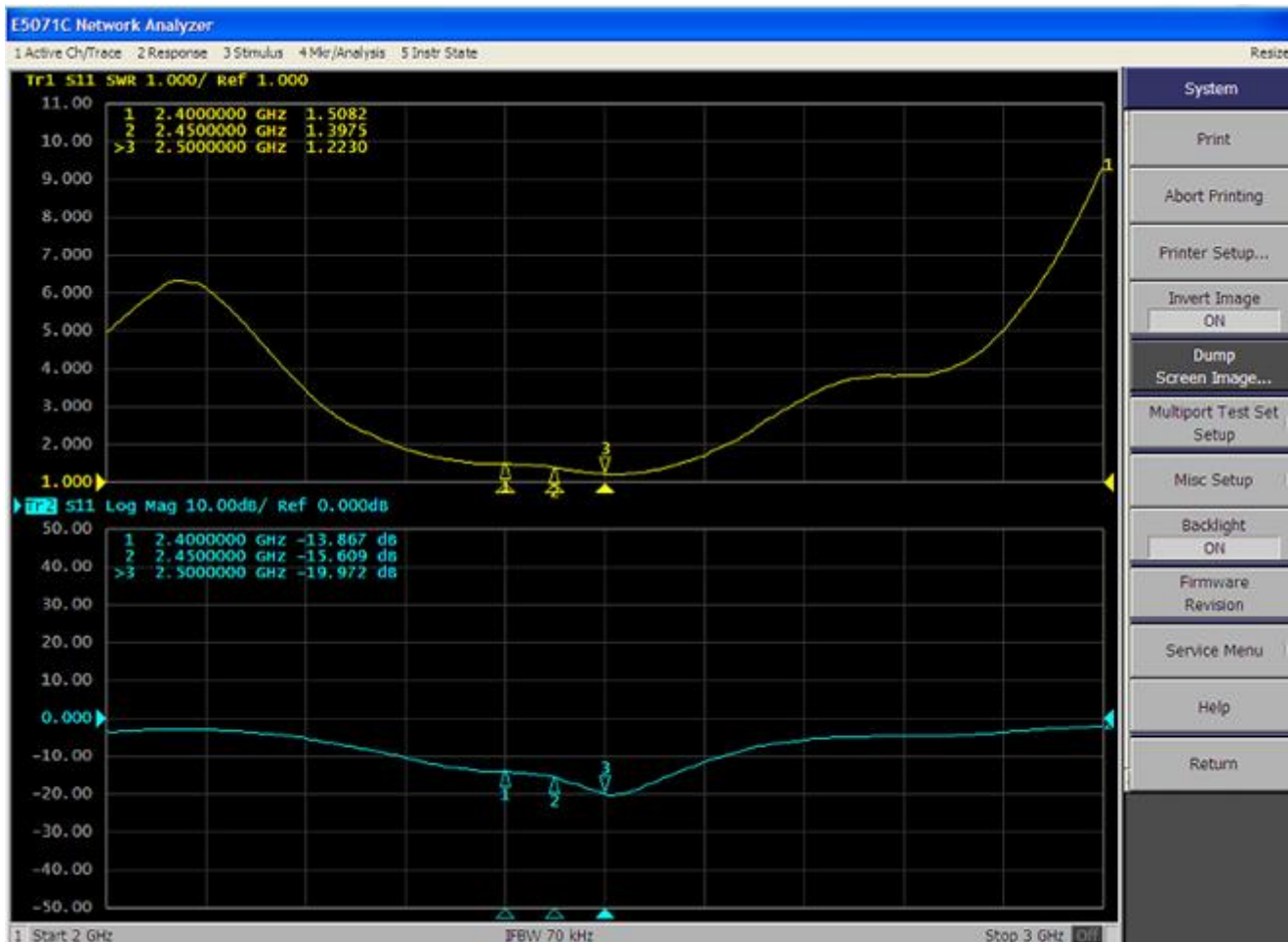
2. Characteristics and Reliability Test

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.≤5% 符合待测物规范;频率偏移≤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: ≥ 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
6 Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 65°C / 12 H; -30°C / 12H RH: ≥ 90%; Time: 24H 温度 65°C 测试 12H 转-30°C 测试 12H; 湿度≥ 90%; 时间 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢复 2H 后, 无明显外观不良;频率偏移≤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.≤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 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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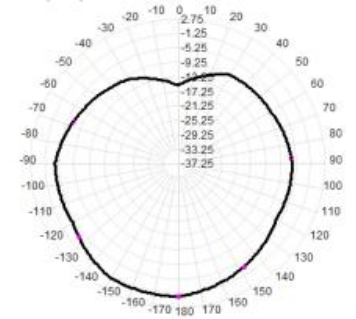
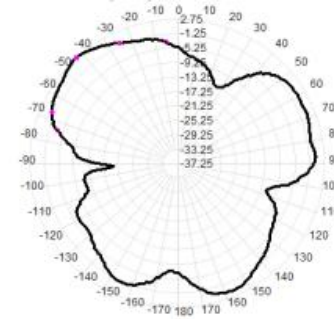
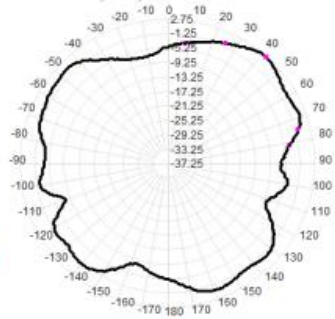
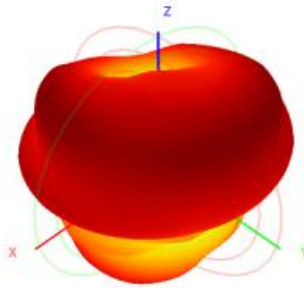
Product Name: Antenna

XZ

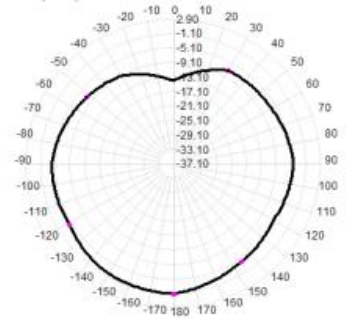
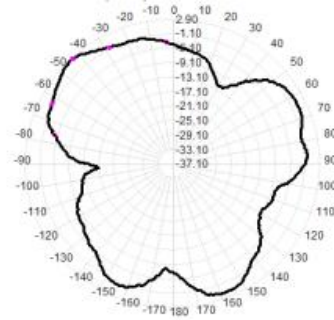
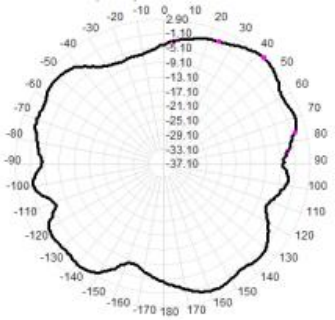
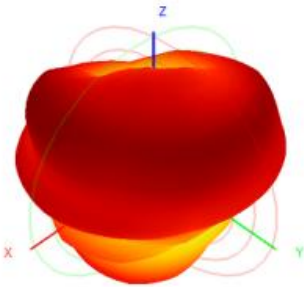
YZ

XY

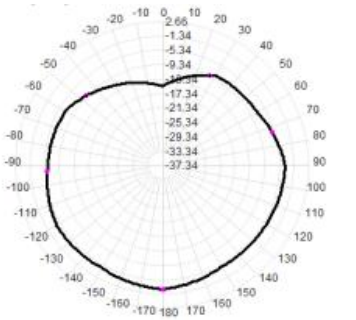
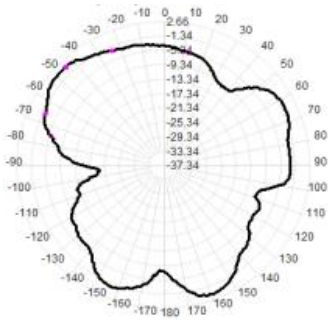
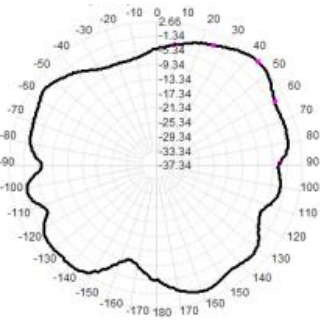
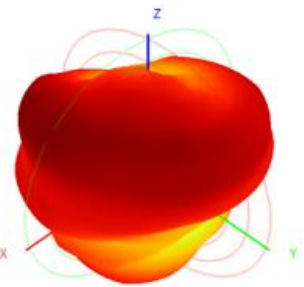
2400MHz



2450MHz



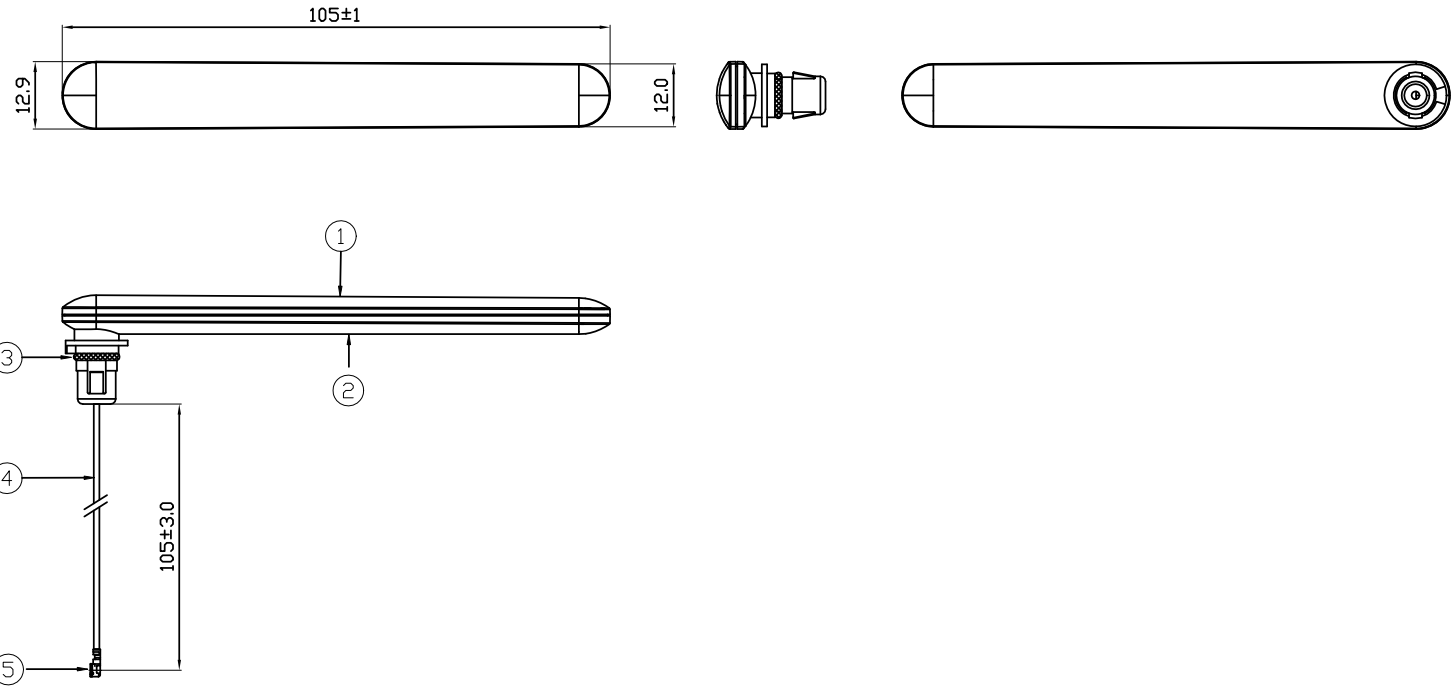
2500MHz



5. Mechanical Drawing See attached files

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	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



Tengxiang Technology Inc.

TITLE: 2.4G Antenna						
PART NO.: AN2400-5835BX-B			DWG NAME:			
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°

產品包裝規範

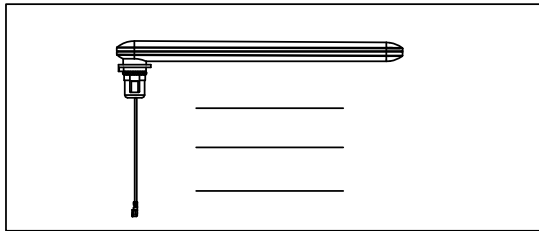
PACKING CRITERION

Date: 2024.12.28

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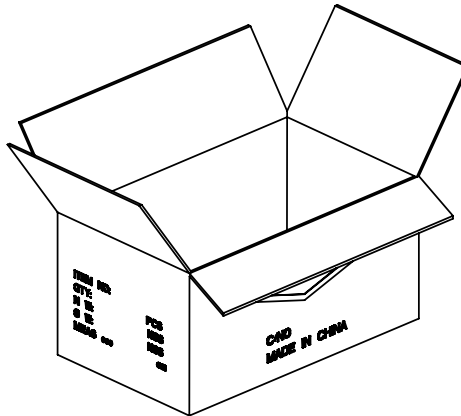
Part Number : AN2400-5835AX-B	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag.



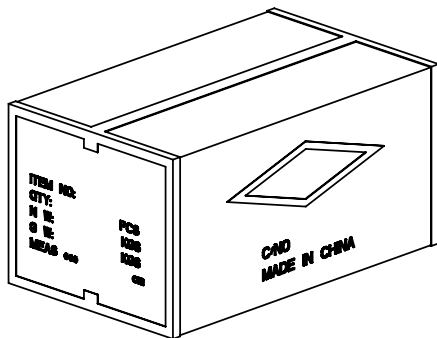
50pcs/ PE bag

2.PACKING ◦

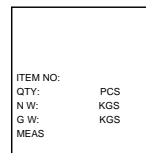


1000pcs/Carton

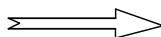
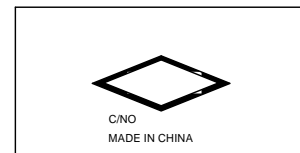
3. SEALING ◦



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF