



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2400-33BC05RS-B

Product Name: Antenna

Specification For Approval

Date: 2024.8.22

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:

AN2400-33BC05RS-B

规格描述

Description :

2.4G 黑色天线 SMA 公头母针

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	奉顺华	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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Product Number:AN2400-33BC05RS-B

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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	2024.8.22	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	3.44dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	ABS /POM/PC+PBT
Cable Type 线材规格	RG178
Connector Type 连接器规格	RP SMA PIUG
C. Environmental	
Storage Temperature 存储温度	- 30 °C ~ + 65 °C
Operation Temperature 工作温度	- 30 °C ~ + 65 °C
Antenna Color Storage life 天线颜色存储寿命	< 2 year

Product Number: AN2400-33BC05RS-B

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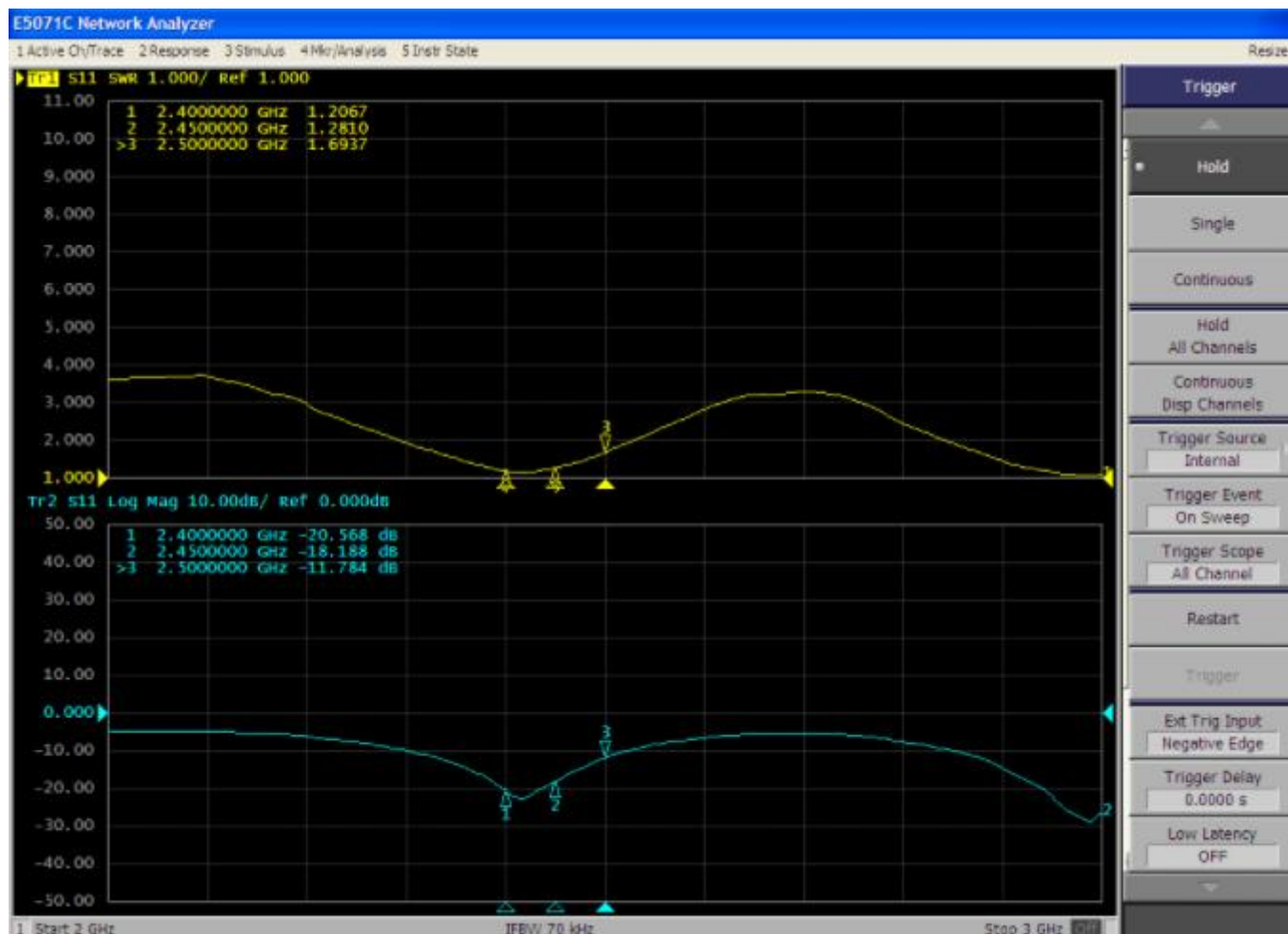
2. Characteristics and Reliability Test

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	Torque Test 扭力	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal 单独定义产品端子之顺时针及逆时针扭力	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	PASS
5	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
6	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
7	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
8	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
9	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:AN2400-33BC05RS-B

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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)	2.48	2.90	3.09	3.33	3.44	3.29	2.88	2.71	2.46	2.49	2.62
Efficiency (%)	77.48	82.28	83.33	85.48	86.83	85.17	80.56	79.76	75.73	75.75	76.12

Product Number:AN2400-33BC05RS-B

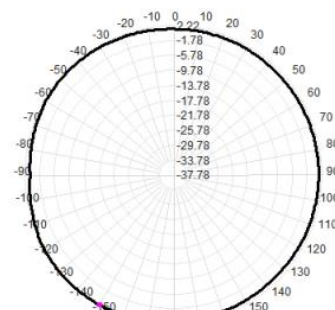
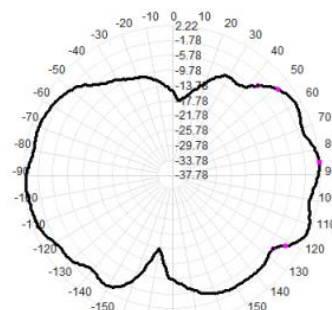
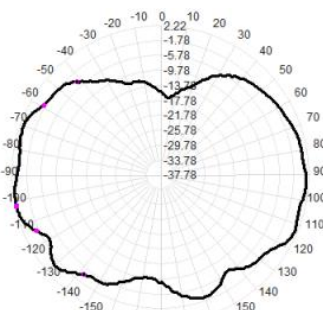
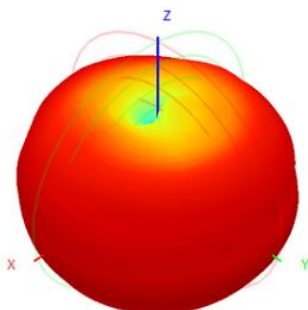
Product Name: Antenna

XZ

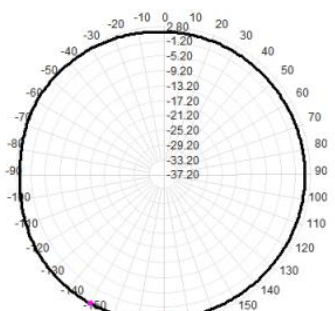
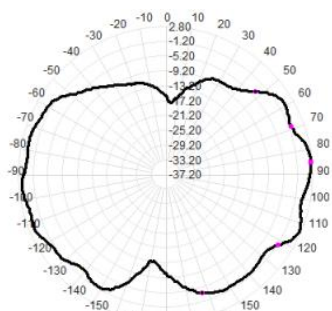
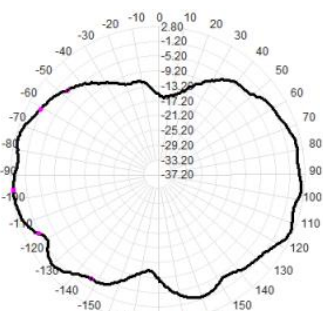
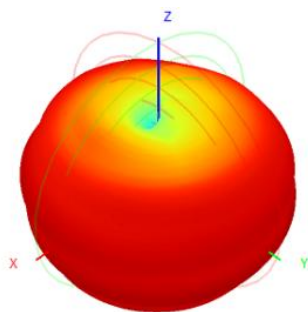
YZ

XY

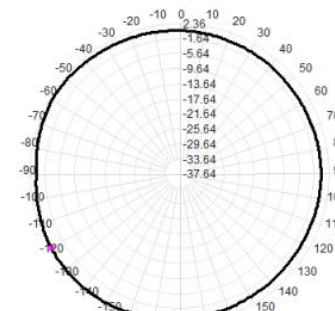
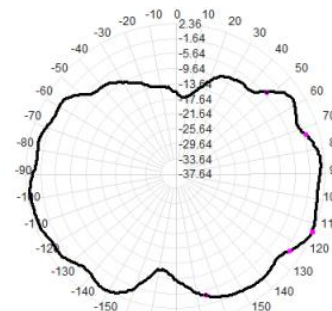
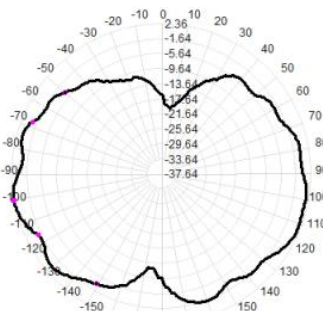
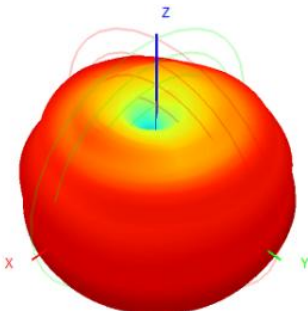
2400MHz



2450MHz

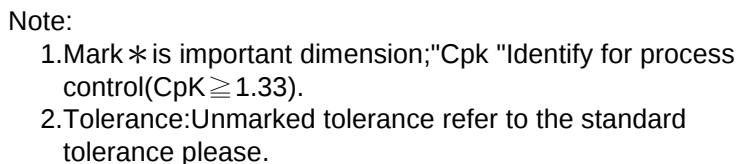


2500MHz



5. Mechanical Drawing See attached files

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



4	AN33-01B	本体	ABS	Black	1
3	AN01-1215-P-1	铆钉	POM	Black	2
2	AN33-02B	连接头	PC+PBT	Black	1
1	SMA527-N8MRANT	SMA 公头母针	Cu	Ni Plating	1
No.	Part Number	Name	Material	Finish	Q'ty

 Tengxiang Electronics Co., Ltd.						
TITLE: 2.4G Antenna						
PART NO.: AN2400-33BC05RS-B			CUSTOMER P/N: /			
APP BY	CHK BY	RF BY	DES BY		Tolerance	
YCX	HC	WJ	DWF		UNITS: mm	X.X ±0.5
2024.08.22	2024.08.22	2024.08.22	2024.08.22		SCALE: 1/1	X.XX ±0.2
				REVISION: A	X° ±1	

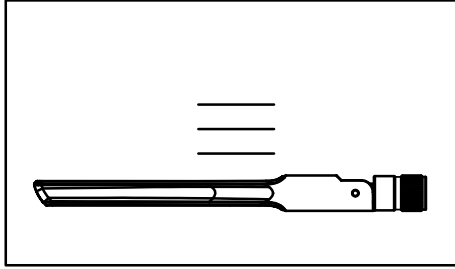
產品包裝規範

PACKING CRITERION

Date: 2024.08.22

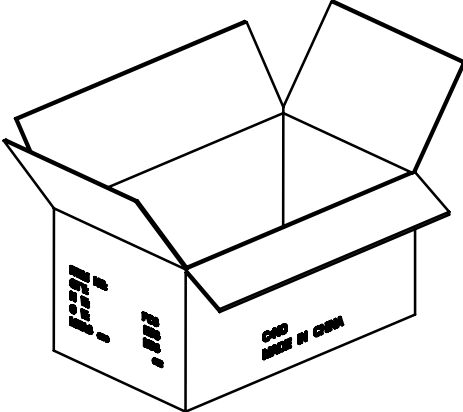
Part Number : AN2400-33BC05RS-B	Revision : A
Name: Antenna	

1 . Enter PE bag。



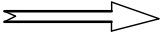
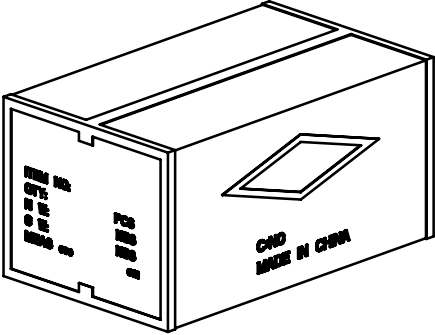
50pcs/ PE bag

2.PACKING 。

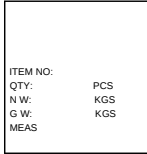


1000pcs/Carton

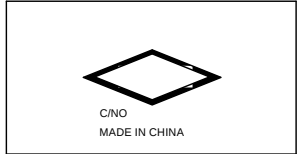
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX CHECKED BY : HC DESIGNED BY : DWF