



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-79F02GX-W

Product Name: Antenna

Specification For Approval

Date: 2022.7.15

Version: 1.0

客户名称

Customer:

安博奇 Shenzhen Anboqi Technology Co., Ltd.

天线类型

Antenna type:

棒状天线 Rod antenna

腾祥料号

T X P/N:

AN2400-79F02GX-W

规格描述

Description :

2.4G 白色天线 1.13mm 深灰色线 L=200mm+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	周志红	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVED BY 核准	



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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2022.7.15	初版	

Product Number: AN2400-79F02GX-W

Product Name: Antenna

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	2.86dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	ABS /POM
Cable Type 线材规格	OD1.13mm ,Gray
Connector Type 连接器规格	IPEX
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: AN2400-79F02GX-W

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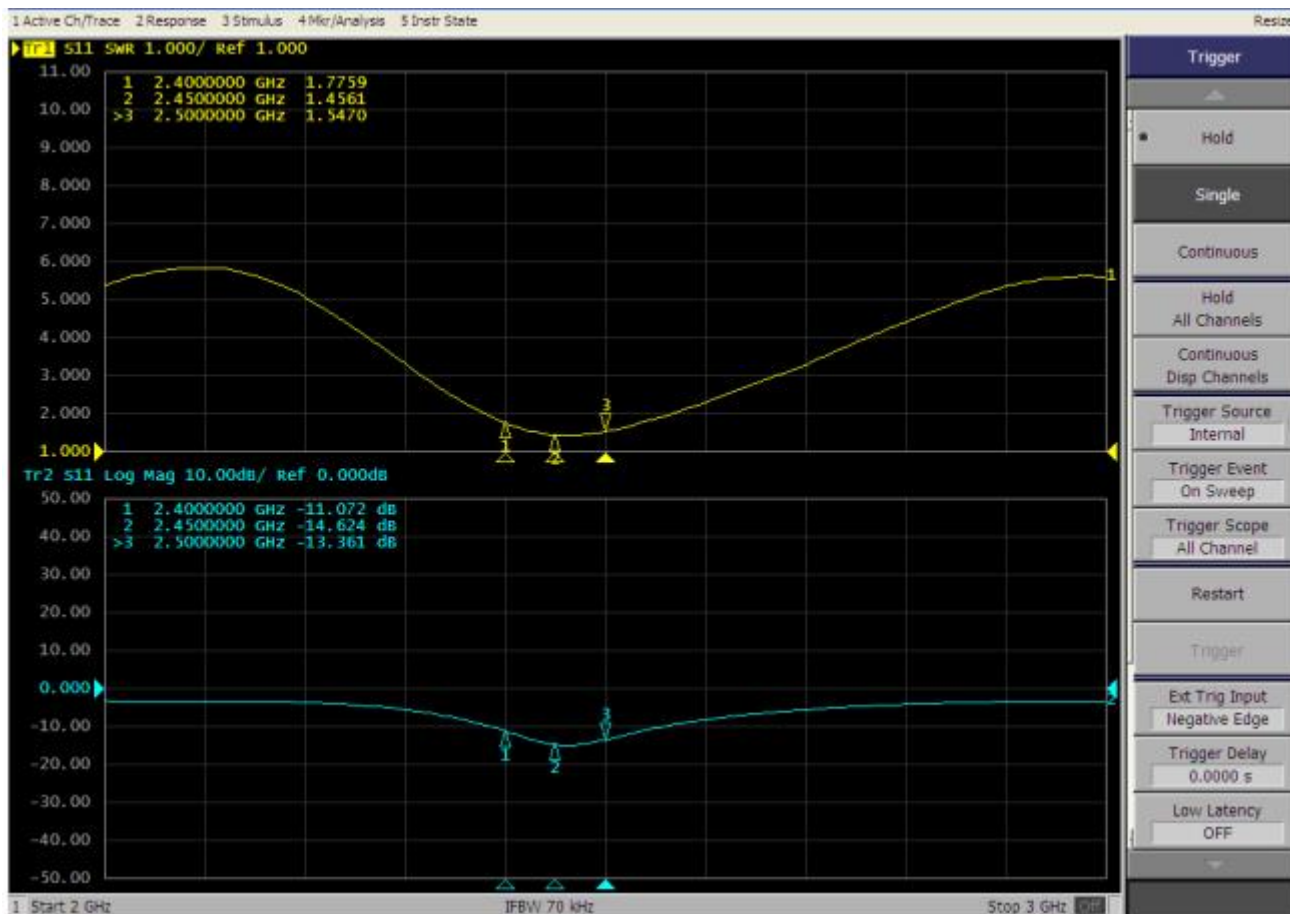
2. Characteristics and Reliability Test

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

Product Number: AN2400-79F02GX-W

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3. Antenna - S Parameter Test Data



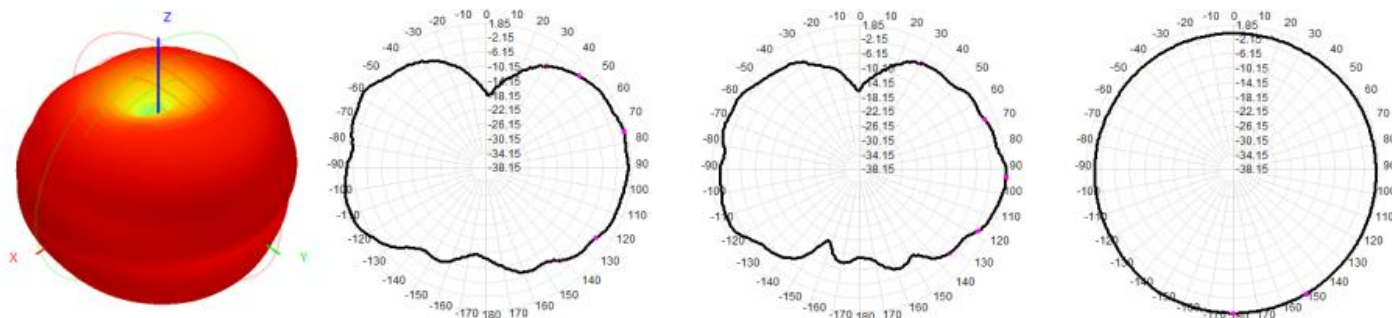
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	1.99	2.10	2.33	2.30	2.16	2.86	2.42	2.32	2.40	2.35	2.38
Efficiency (%)	69.80	70.85	73.08	73.88	74.53	73.31	69.56	66.42	64.17	64.38	63.58

Product Number: AN2400-79F02GX-W

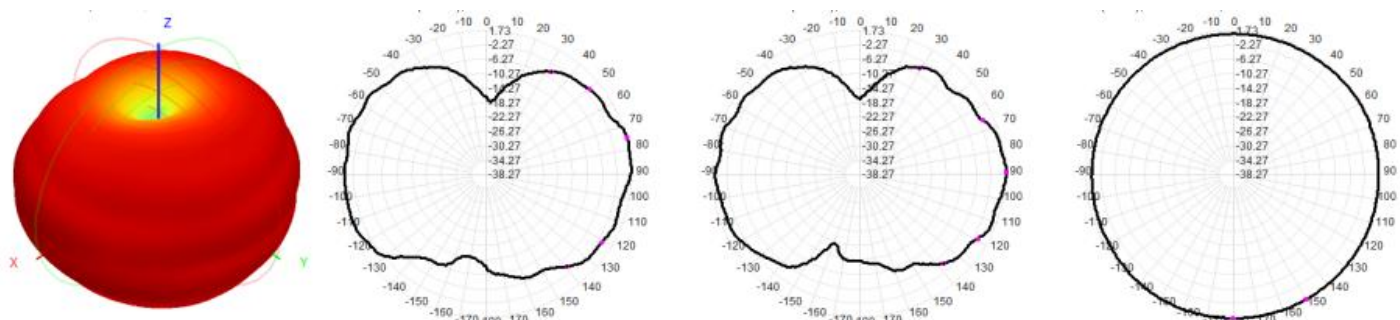
Product Name: Antenna

4. Antenna - Radiation Pattern Test Data

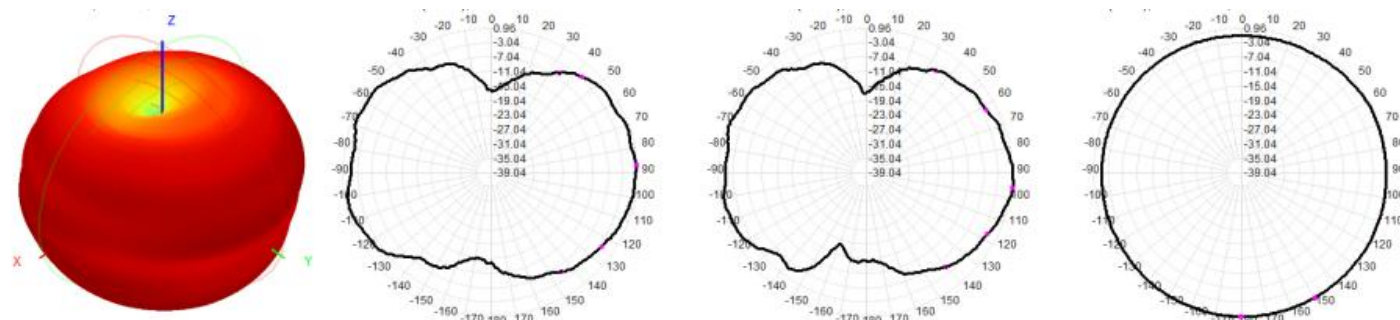
2400MHz



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.Mark * is important dimension;"Cpk "Identify for process control(CpK≥1.33). 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.																																																																			
<table><tr><td>5</td><td>CR-113-ZP-A</td><td>IPEX</td><td>Cu</td><td>Au Plated</td><td>1</td></tr><tr><td>4</td><td>CB-113GS</td><td>Cable</td><td></td><td>OD=1.13mm,GRAY</td><td>1</td></tr><tr><td>3</td><td>AN03-514PW</td><td>PING</td><td>POM</td><td>White</td><td>1</td></tr><tr><td>2</td><td>AN9201-08WH12-40</td><td>BASE</td><td>ABS</td><td>White</td><td>1</td></tr><tr><td>1</td><td>AN79-01WH12</td><td>BODY</td><td>ABS</td><td>White</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-113-ZP-A	IPEX	Cu	Au Plated	1	4	CB-113GS	Cable		OD=1.13mm,GRAY	1	3	AN03-514PW	PING	POM	White	1	2	AN9201-08WH12-40	BASE	ABS	White	1	1	AN79-01WH12	BODY	ABS	White	1	No.	Part Number	Name	Material	Finish	Q'ty	Tengxiang Electronics Co., Ltd. TITLE: 2.4G Antenna PART NO.: AN2400-79F02GX-W CUSTOMER P/N: / <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>2022.07.15</td><td>2022.07.15</td><td>2022.07.15</td><td>2022.07.15</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	2022.07.15	2022.07.15	2022.07.15	2022.07.15	SCALE: 1/1	X.XX ±0.2	REVISION: A					X° ±1
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REVISION: A					X° ±1																																																														
1	2	3	4	5	6	7	8																																																												

產品包裝規範

PACKING CRITERION

Date: 2022.07.15

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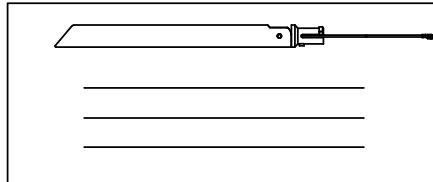
Part Number : AN2400-79F02GX-W

Revision : A

Name: Antenna

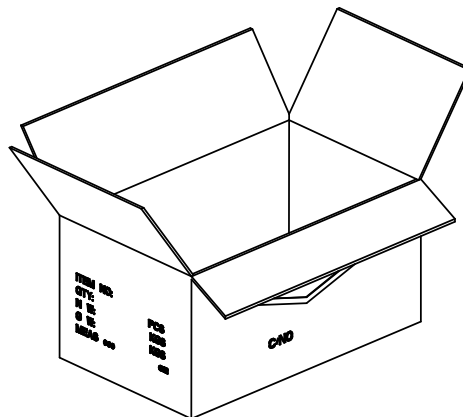
Customer : ALL

1 . Enter PE bag。



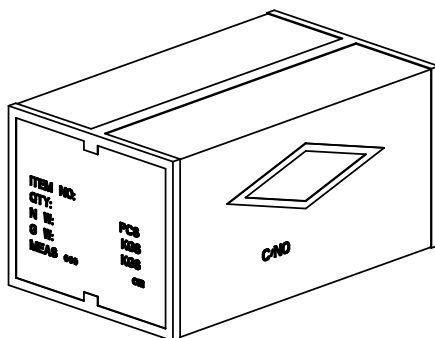
50pcs/ PE bag

2.PACKING 。

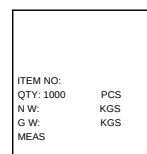


1000pcs/Carton

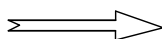
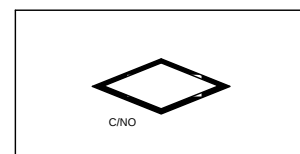
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : WJ

DESIGNED BY : DWF