



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2400-FPC288BX

Product Name: Antenna

Specification For Approval

Date: 2024.10.24

Version: 1.0

客户名称

Customer:

神牛

客户料号

Customer P/N:

122-80081-000

腾祥料号

T X P/N:

AN2400-FPC288BX

规格描述

Description : 2.4GFPC 天线 0.81mm 黑色线 L=55mm +IPEX (2代)

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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Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2400-FPC288BX

Product Name: Antenna

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.10.24	初版	

Product Number: AN2400-FPC288BX

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	0.36dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	OD0.81mm ,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

Product Number: AN2400-FPC288BX

Product Name: Antenna

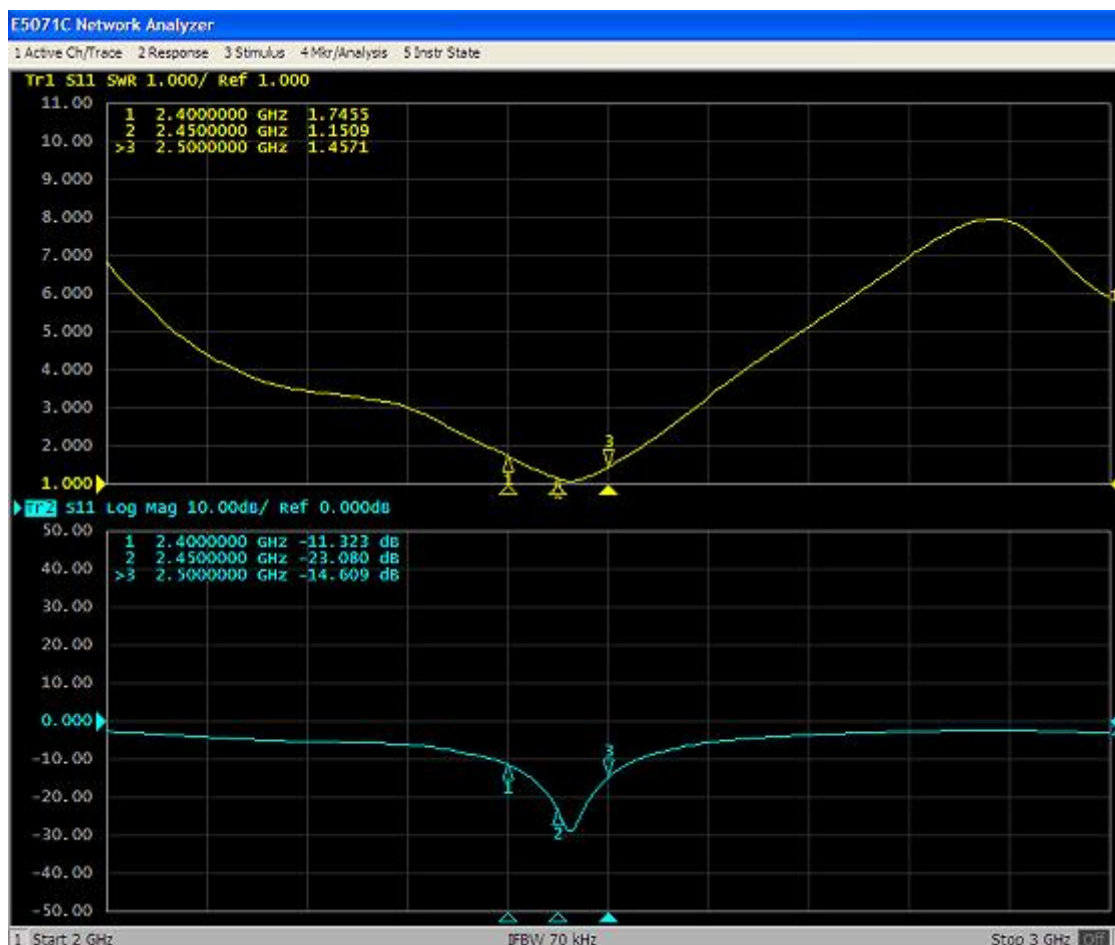
2. Characteristics and Reliability Test

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: $260 \pm 5^{\circ}\text{C}$; Duration: 5 seconds 温度 $260 \pm 5^{\circ}\text{C}$; 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. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	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: $\geq 95\%$; 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
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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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)	0.15	0.25	0.30	0.33	0.36	0.34	0.26	0.24	0.20	0.15	0.10
Efficiency (%)	33.57	34.73	33.06	33.36	34.52	35.04	35.69	33.84	32.69	33.60	32.20

Product Number:AN2400-FPC288BX

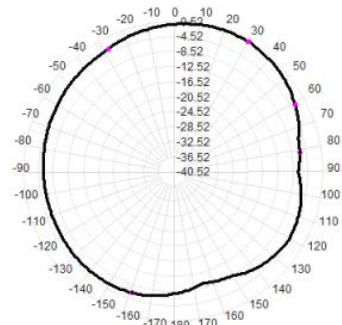
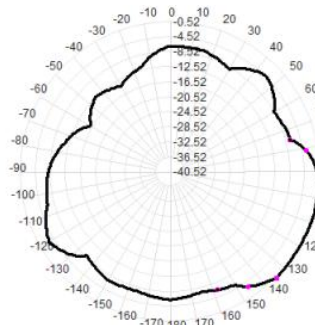
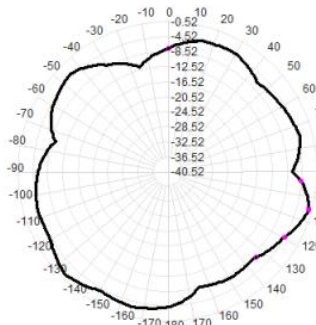
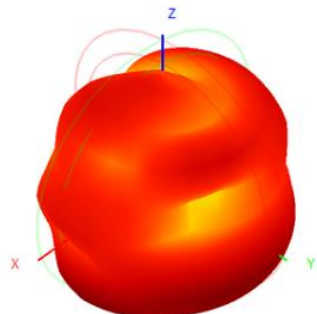
Product Name: Antenna

XZ

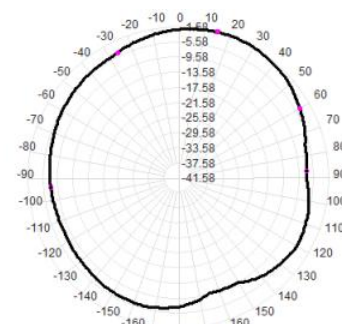
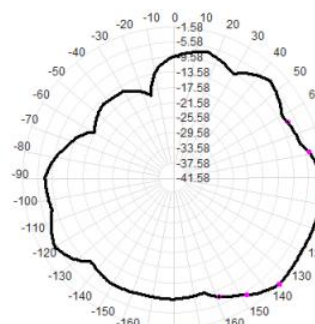
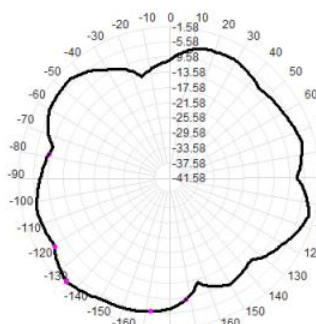
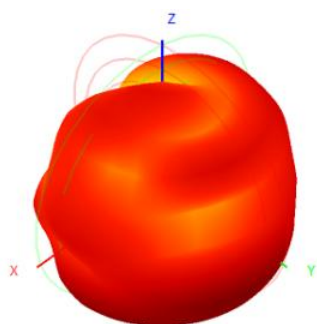
YZ

XY

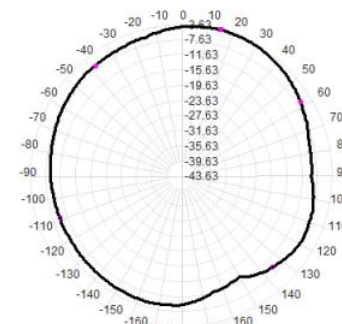
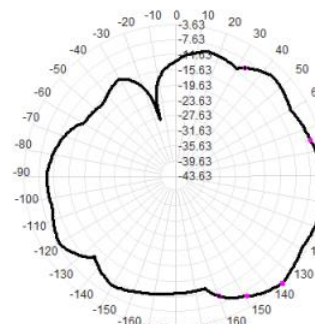
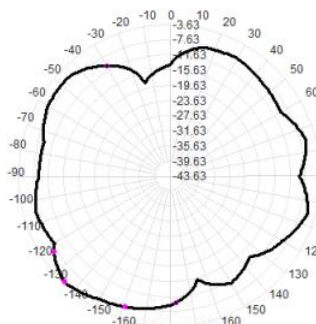
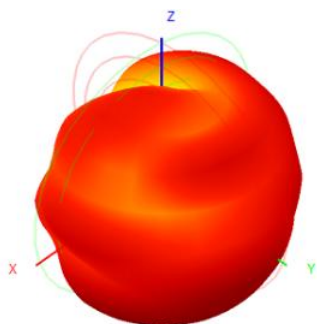
2400MHz



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	△				△				△						
SIGN	DATE	DESCRIPTION	APPROVER																							
△																										
△																										
△																										
E								E																		
D								D																		
C	二代端子 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.							C																		
B								B																		
A	<table><tr><td>2</td><td>CCABLE-081-055BX</td><td>Coaxial Cable</td><td>OD0.81</td><td>Black</td><td>1</td></tr><tr><td>1</td><td>AN2400-FPC285063-2</td><td>FPC</td><td></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>							2	CCABLE-081-055BX	Coaxial Cable	OD0.81	Black	1	1	AN2400-FPC285063-2	FPC		Black	1	No.	Part Number	Name	Material	Finish	Q'ty	A
2	CCABLE-081-055BX	Coaxial Cable	OD0.81	Black	1																					
1	AN2400-FPC285063-2	FPC		Black	1																					
No.	Part Number	Name	Material	Finish	Q'ty																					
1	2	3	4	5	6	7	8																			



Tengxiang Electronics Co., Ltd.

TITLE: Antenna

PART NO.: AN2400-FPC288BX

CUSTOMER P/N: /

APP BY

CHK BY

RF BY

DES BY



Tolerance

YCX

HC

WJ

SY

UNITS: mm

X.X ±0.5

2024.10.23

2024.10.23

2024.10.23

2024.10.23

SCALE: 1/1

X.XX ±0.2

REVISION: A

X° ±1

产品包装规范

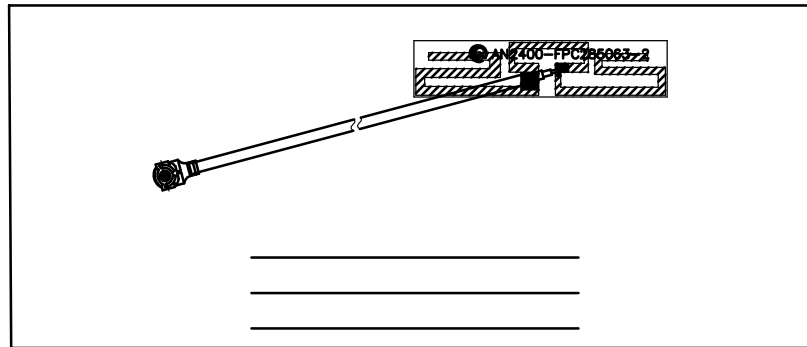
PACKING CRITERION

Date: 2024.10.23

Page: 1 of 1

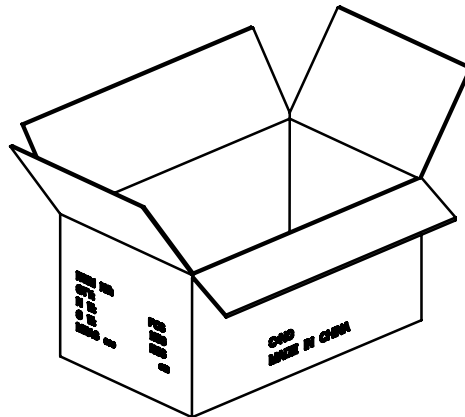
Part Number : AN2400-FPC288BX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



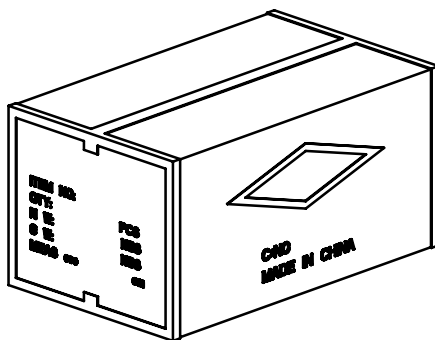
100pcs/ PE bag

2.PACKING。

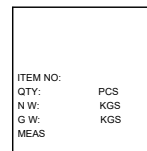


8000pcs/Carton

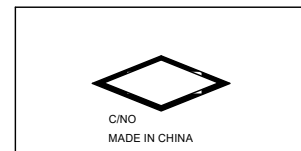
3. SEALING。



SIDE



FRONT



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