

供应商:

东莞市腾祥电子有限公司

Tengxiang Technology, Inc

地 址: 东莞市 长安镇 沙头沙涌路53号

承 認 書

SPECIFICATION FOR APPROVAL

騰祥料號 SOREDE P/N	AN2450-FPC05BX
品 名 / 規 格 DESCRIPTION	2.4/5.8G FPC天线, 黑色线L=80mm+IPEX
騰祥送樣編號 SOREDE DWG#	210225002
送样日期 SAMPLE DATE	2022/12/1

MANUFACTURER/ 制造商			
APPROVED BY 核 准	Q.C.DEPT. 品 管	CHECKED BY 核 准	TESTED BY 檢 測
韦佳	袁旭阳	胡超	李艳坪

客户:

深圳市视壮科技有限公司

视 壮 料 號 CUSTOMER P/N	
视 壮 名 稱 CUSTOMER	
品 名 / 規 格 DESCRIPTION	

CUSTOMER APPROVAL/ 客户审核			
APPROVED BY 核 准	Q.C.DEPT. 品 管	CHECKED BY 审核	TESTED BY 檢 測

Product Number: AN2450-FPC05BX

Product Name: FPC Antenna

1. Specification

Sample Photo



A. Electrical Characteristics

Frequency 频率	2400-2500MHz / 5150-5850 MHz
S.W.R.驻波比	≤ 2.0
Antenna Gain 增益	2.96 dBi / 6.42 dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm

B. Material & Mechanical Characteristics

Material of Radiator	Cu
Material of Plastic 塑胶材质	/
Cable Type 线材规格	OD1.13mm , BLACK
Connector Type 连接器规格	I-PEX
Connector Pull Test	/
Connector Torque Test	/

C. Environmental

Operation Temperature 存储温度	- 40 °C ~ + 80 °C
Storage Temperature 存储温度	- 40 °C ~ + 80 °C

2. Characteristics and Reliability Test



Tengxiang Technology.Inc

Product Number:AN2450-FPC05BX

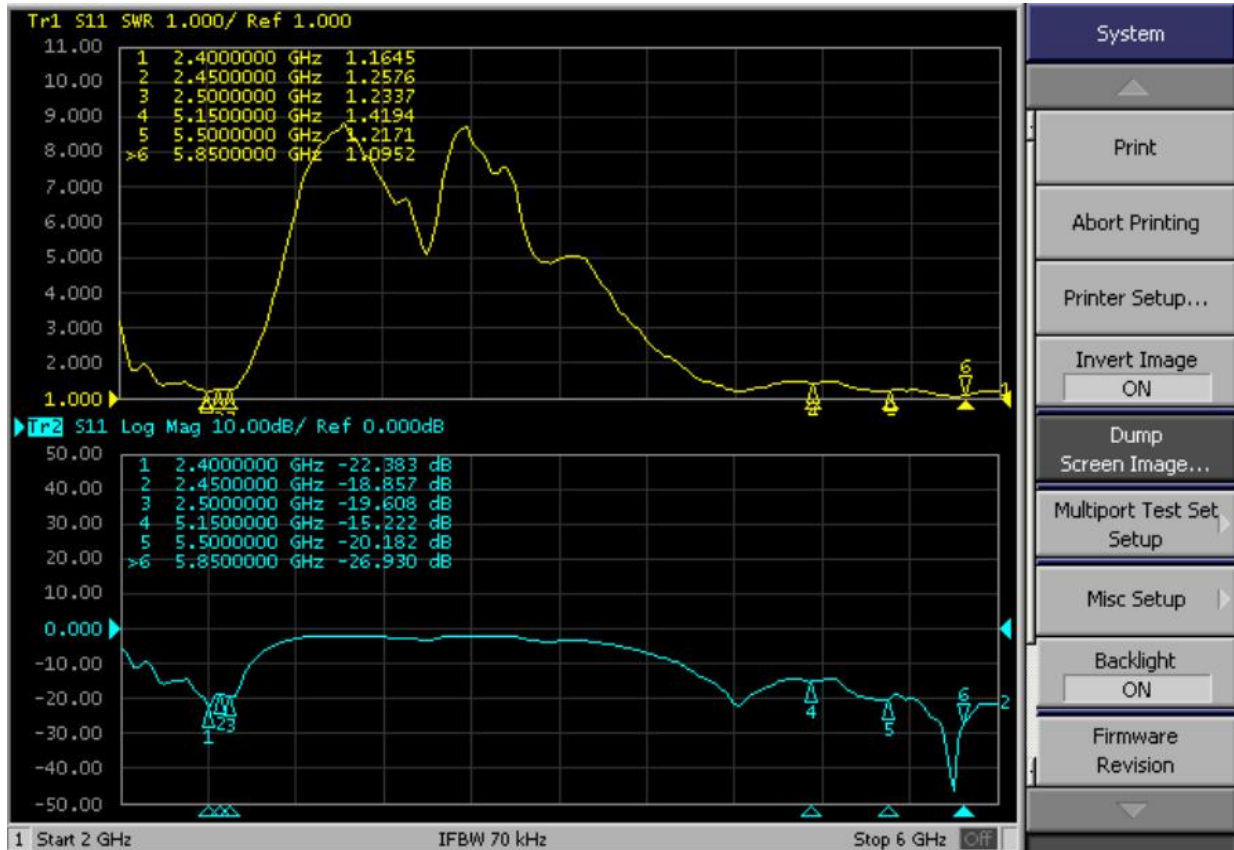
Product Name: FPC Antenna

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 45°C (30 minutes) to + 85°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 85°C; Time: 96 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2020/863/EU

Product Number: AN2450-FPC05BX

Product Name: FPC Antenna

3. Antenna - S Parameter Test Data



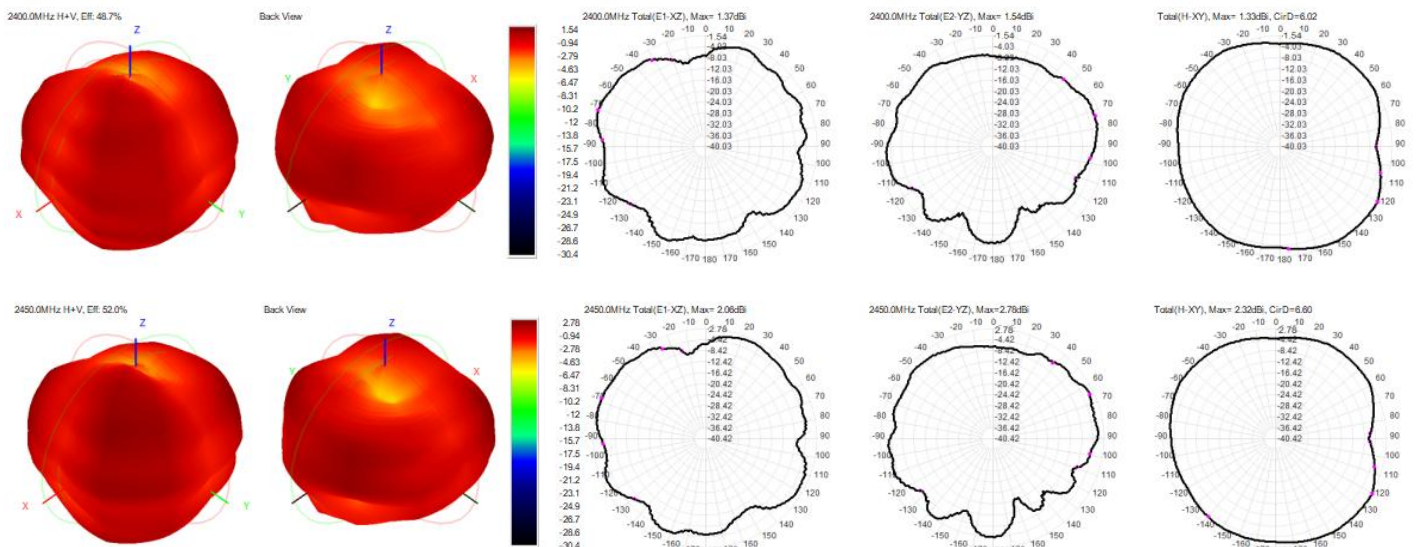
Product Number:AN2450-FPC05BX

Product Name: FPC Antenna



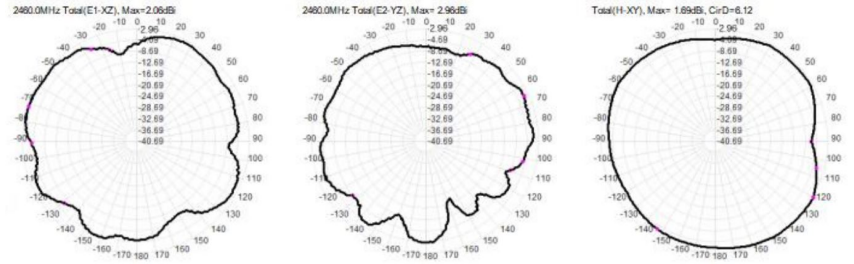
4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain (dBi)	1.54	1.94	2.13	2.43	2.86	2.78	2.96	2.76	2.65	2.25	2.03	5.10	4.84	5.09	4.27	4.62	4.68	4.35	4.11	4.68	4.76	4.99	4.81	6.27	6.20	6.42
Efficiency (%)	48.66	49.78	53.09	51.26	53.42	51.98	49.13	47.89	46.68	47.30	47.06	58.42	58.36	62.64	55.15	62.09	65.87	66.01	60.28	65.62	65.88	66.76	59.62	65.97	69.90	67.07

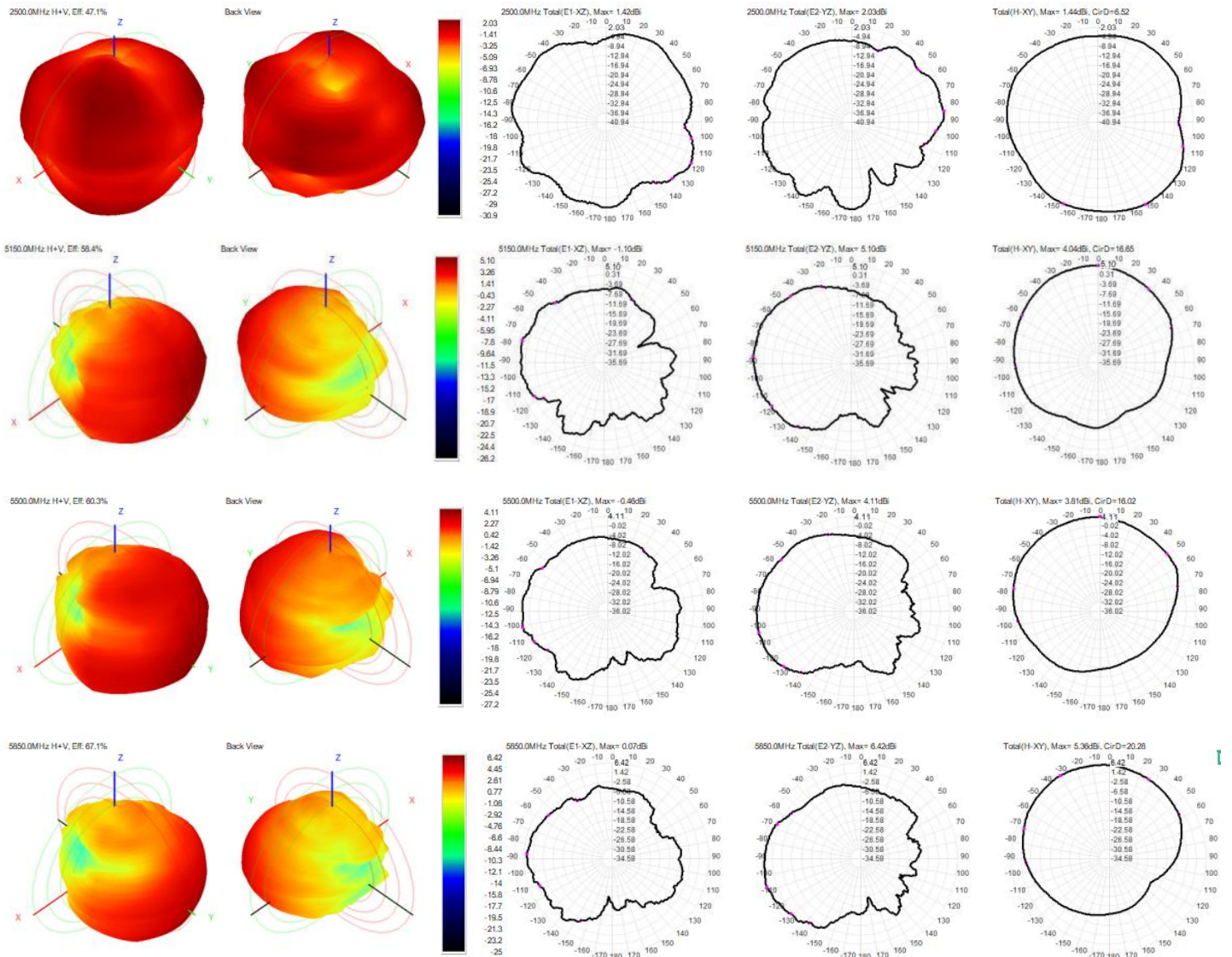


Product Number:AN2450-FPC05BX

Product Name: FPC Antenna



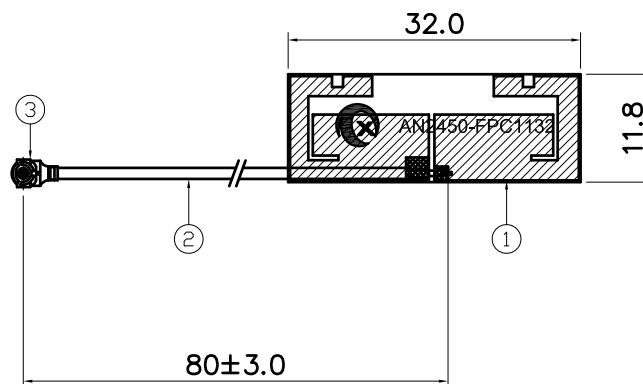
Note: Maximum antenna gain at 2460MHz.



5. Mechanical Drawing (See attached files)

HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



Note:

1. Mark * is important dimension;"Cpk "Identify for process control($CpK \geq 1.33$).
2. Tolerance: Unmarked tolerance refer to the standard tolerance please.
3. Pay attention to the direction of the connector.

3	CR-113-ZP-A	I-PEX	Cu	Au Plated	1
2	CB-113BS	Coaxial Cable	OD1.13	Black	1
1	AN2450-FPC1132	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

 Tengxiang Electronics Co., Ltd.						
TITLE: Antenna						
PART NO.: AN2450-FPC05BX				CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance	
YCX	HC	WJ	DWF		UNITS: mm	X.X ±0.5
2022.12.01	2022.12.01	2022.12.01	2022.12.01		SCALE: 1/1	X.XX ±0.2
				REVISION: A	X° ±1	

產品包裝規範

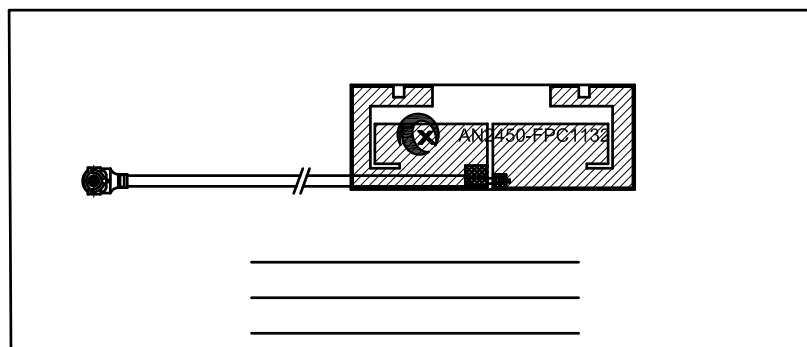
PACKING CRITERION

Date: 2022.12.01

Page: 1 of 1

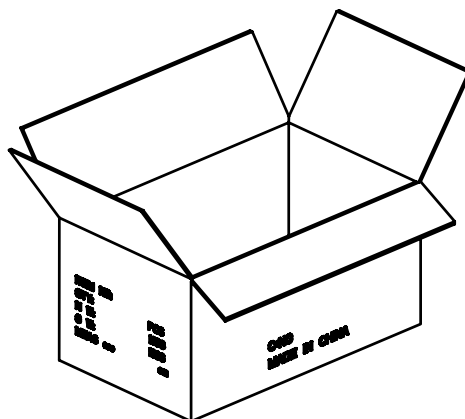
Part Number : AN2450-FPC05BX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



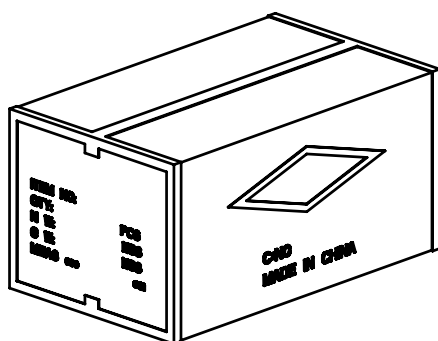
100pcs/ PE bag

2.PACKING 。



8000pcs/Carton

3. SEALING。

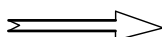


SIDE

ITEM NO:
QTY: PCS
N W: KGS
G W: KGS
MEAS

FRONT

C/NO
MADE IN CHINA



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWF