

东莞市腾祥电子有限公司

Tengxiang Technology, Inc

承認書

SPECIFICATION FOR APPROVAL

騰祥料號

SOREDE P/N

AN2450-FPC001G0

品名/規格
DESCRIPTION

2.4/5.8G FPC antenna, with a gray line measuring 70mm

騰祥送樣編號
SOREDE DWG#

210412001

送样日期

SAMPLE DATE

2021/4/12



MANUFACTURER/制造商

APPROVED BY 核准	Q.C.DEPT. 品管	CHECKED BY 核准	TESTED BY 檢測
韦佳	李群	胡超	黄佰铨

Product Number: AN2450-FPC001GO

Product Name: FPC Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz / 5150-5850 MHz
S.W.R.	≤ 2.0
Antenna Gain	2.87dBi / 3.35dBi
Polarization	Linear
Impedance	50 Ohm
Material of Radiator	Cu
Material of Plastic	/
Cable Type	OD1.13
Connector Type	/
Connector Pull Test	/
Connector Torque Test	/
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C

2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification



Tengxiang Technology.Inc

Product Number: AN2450-FPC001GO

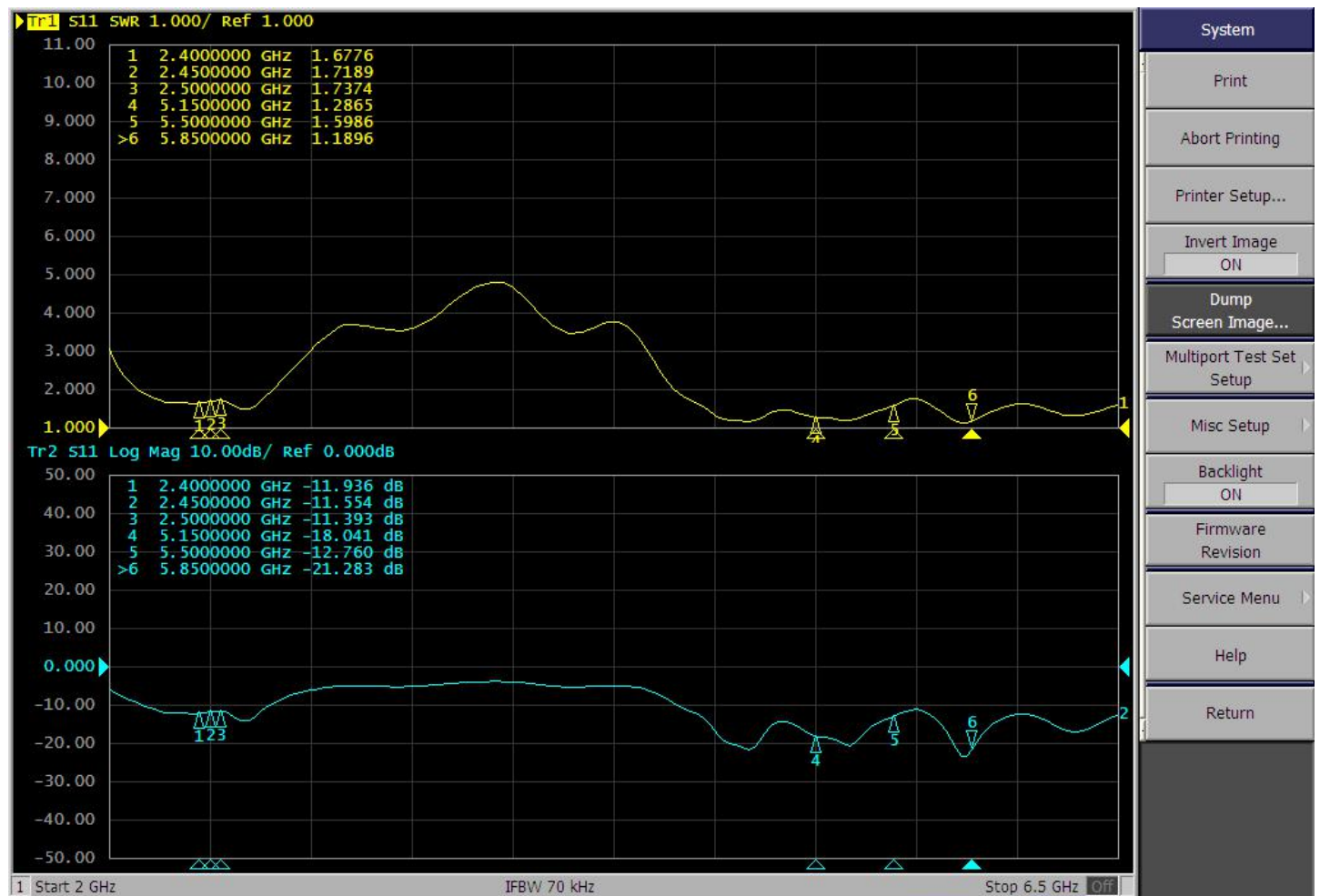
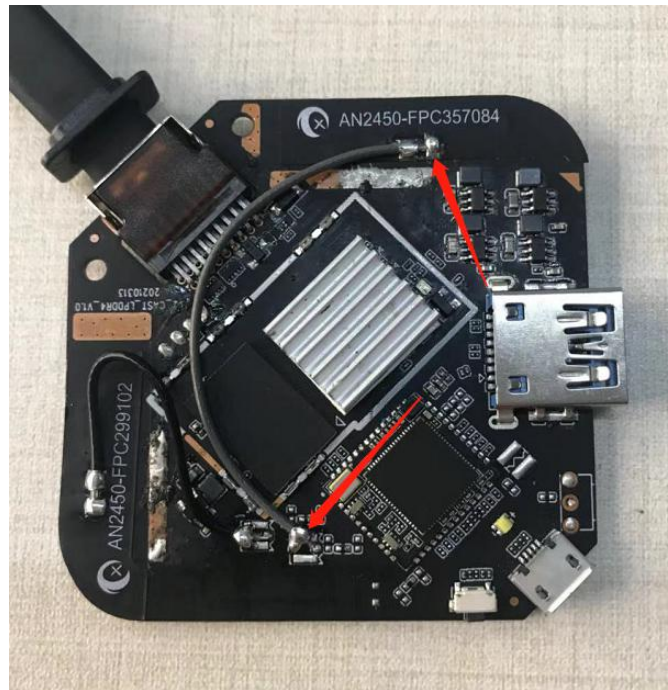
Product Name: FPC Antenna

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: 24 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 2015/863/Eu

3. Antenna - S Parameter Test Data

Product Number: AN2450-FPC001GO

Product Name: FPC Antenna

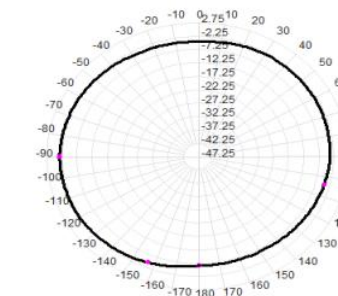
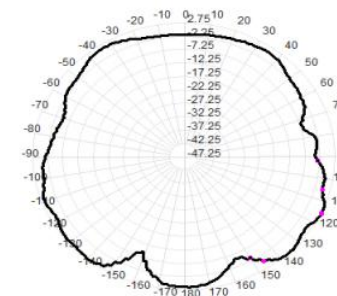
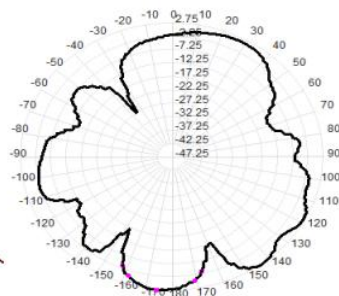
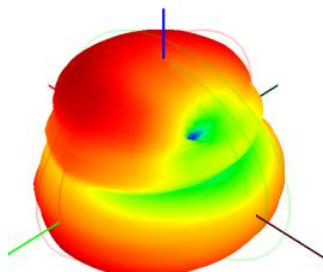
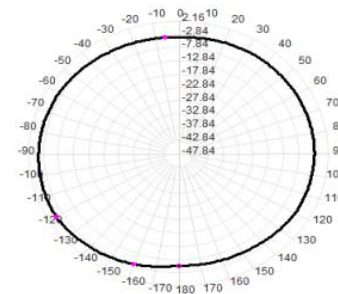
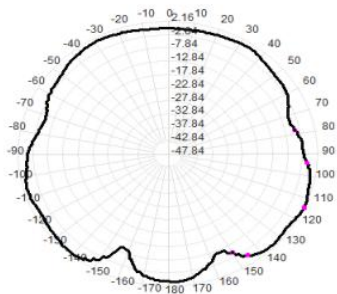
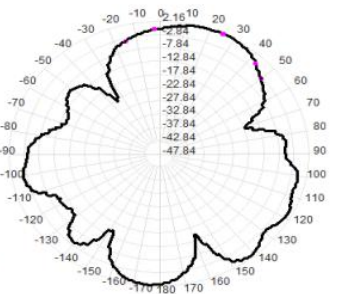
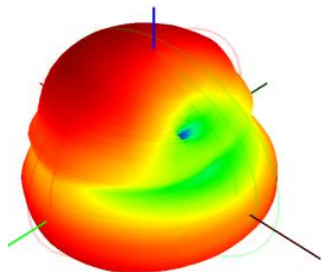
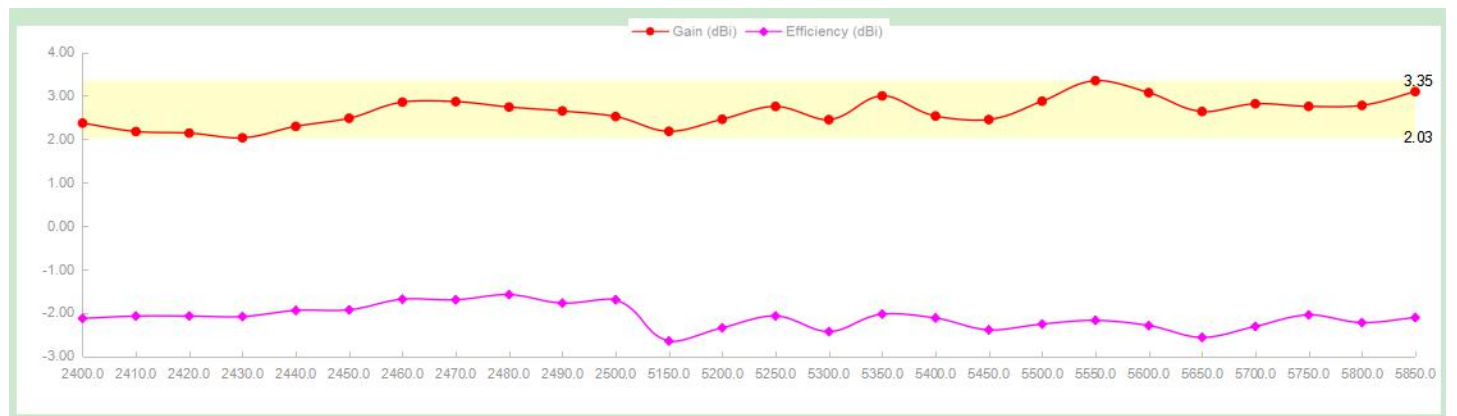


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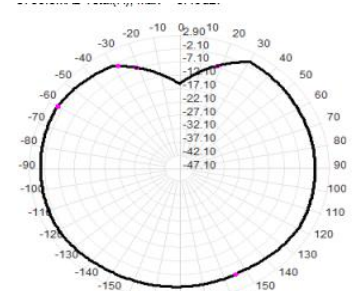
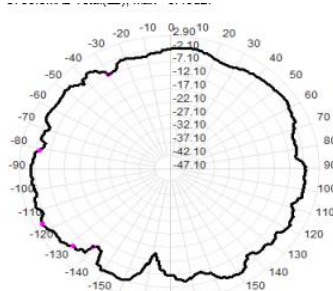
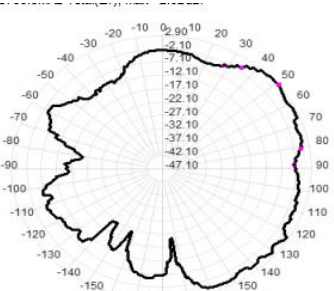
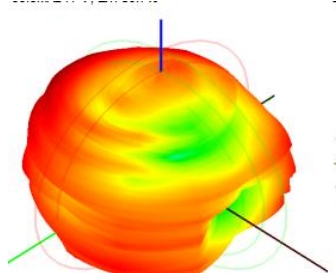
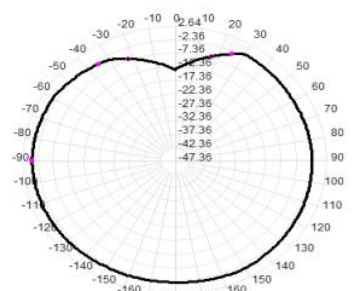
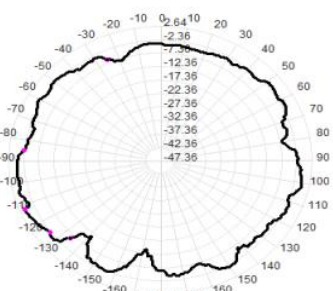
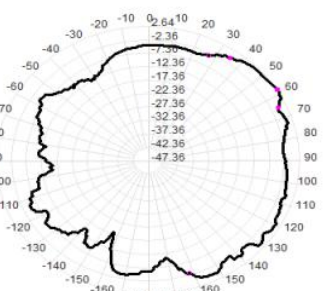
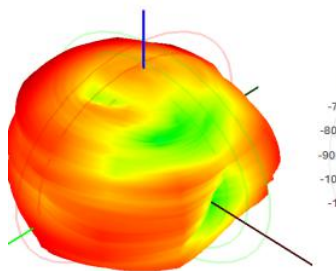
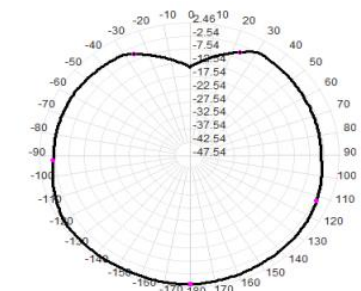
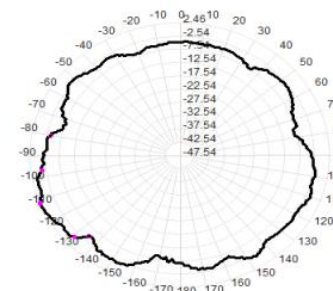
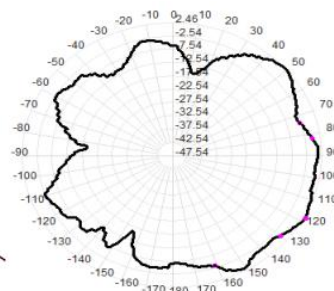
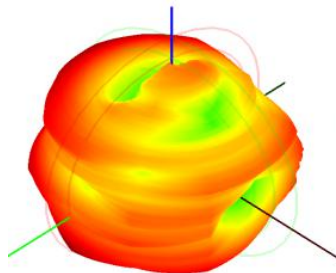
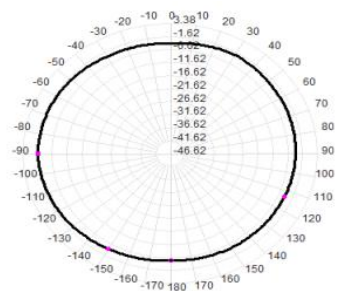
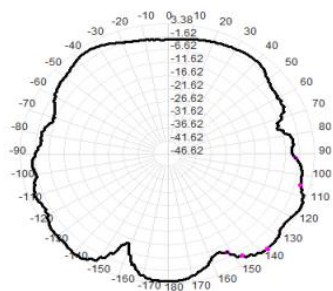
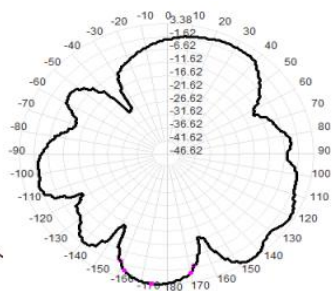
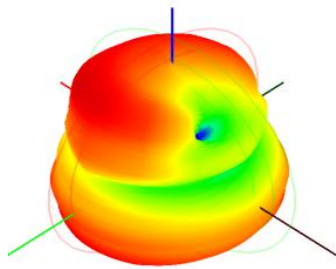
4. Antenna - Radiation Pattern Test Data

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
Efficiency (dBi)	-2.13	-2.08	-2.08	-2.09	-1.95	-1.93	-1.69	-1.70	-1.58	-1.78	-1.70	-2.65	-2.35	-2.07	-2.43	-2.03	-2.12	-2.39	-2.26	-2.18	-2.30	-2.57	-2.31	-2.05	-2.23	-2.11
Gain (dBi)	2.37	2.18	2.14	2.03	2.30	2.48	2.85	2.87	2.74	2.65	2.52	2.18	2.46	2.75	2.45	3.00	2.53	2.45	2.87	3.35	3.07	2.64	2.82	2.75	2.78	3.10
Efficiency (%)	61.21	62.00	62.01	61.83	63.87	64.08	67.79	67.59	69.45	66.39	67.58	54.30	58.25	62.03	57.10	62.64	61.35	57.63	59.41	60.59	58.95	55.36	58.68	62.38	59.88	61.51

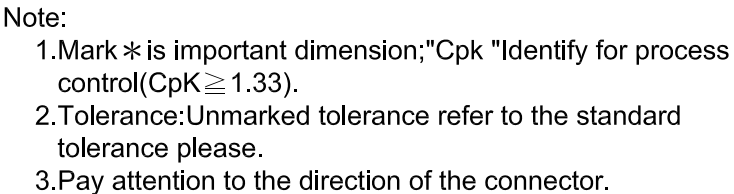


Product Number: AN2450-FPC001GO

Product Name: FPC Antenna



SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



2	CB-113GS	Coaxial Cable	OD1.13	GRAR	1
1	AN2450-FPC357084	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

 Tengxiang Electronics Co., Ltd.						
TITLE: Antenna						
PART NO.: AN2450-FPC001GO				CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY			Tolerance
YCX	HC	WJ	HBX			UNITS: mm
2021.04.12	2021.04.12	2021.04.12	2021.04.12		SCALE: 1/1	X.XX ±0.2
					REVISION: A	X° ±1

產品包裝規範

PACKING CRITERION

Date: 2021.04.12

Page: 1 of 1

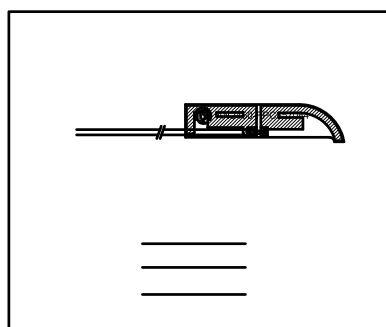
Part Number : AN2450-FPC001GO

Revision : A

Name: Antenna

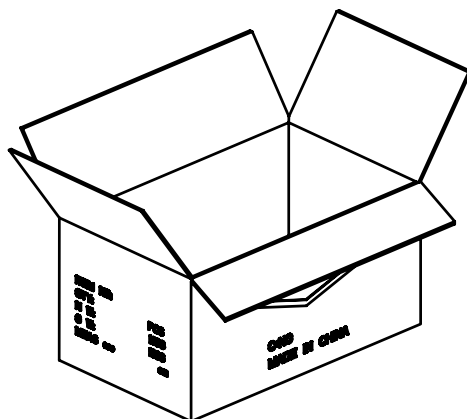
Customer : ALL

1 . Enter PE bag。



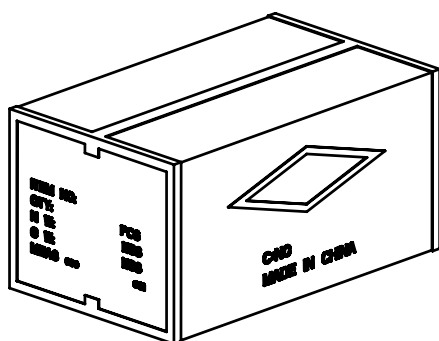
100pcs/ PE bag

2.PACKING 。



8000pcs/Carton

3. SEALING 。

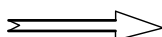


SIDE

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 : DWB