

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

Address: No. 53, Shayong Road, Shatou, Chang 'an Town, Dongguan City

承認書

SPECIFICATION FOR APPROVAL

騰祥料號 SOREDE P/N	AN2450-FPC16GX
品名 / 規格 DESCRIPTION	2.4/5G FPC天线, 1.13深灰色线L=130mm+IPEX
騰祥送樣編號 SOREDE DWG#	
送樣日期 SAMPLE DATE	2022.08.05

MANUFACTURER/制造商			
APPROVED BY 核准	Q.C.DEPT. 品管	CHECKED BY 核准	TESTED BY 檢測
韦佳	罗宗友	胡超	路婷

客户:

深圳市视壮科技有限公司

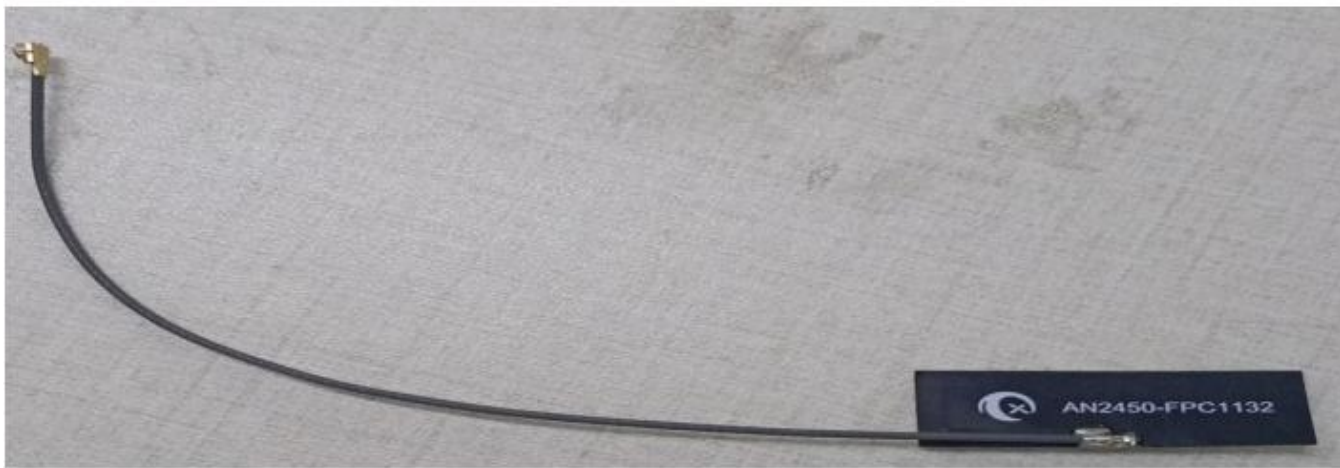
视壮料號 CUSTOMER P/N	
视壮名稱 CUSTOMER	
品名 / 規格 DESCRIPTION	

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-FPC16GX

Product Name: FPC Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz / 5150-5850 MHz
S.W.R.	≤ 2.0 ≤ 2.5
Antenna Gain	3.25dBi / 4.17dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	FPC
Cable Type	1.13mm gray
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
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	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$



Tengxiang Technology.Inc

Product Number: AN2450-FPC16GX

Product Name: FPC Antenna

		3 directions; 2 hours for each direction	
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: - 40°C (30 minutes) to + 80°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: 80°C; Time: 24 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

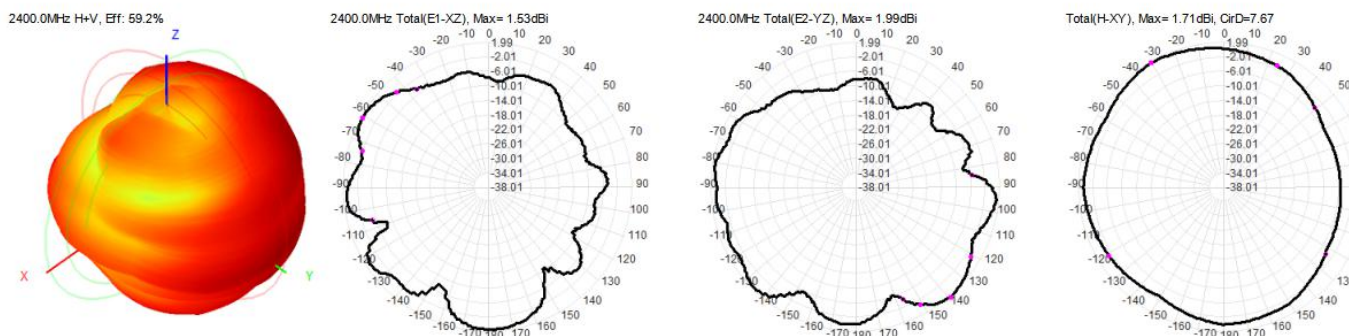
Product Number: AN2450-FPC16GX

Product Name: FPC Antenna



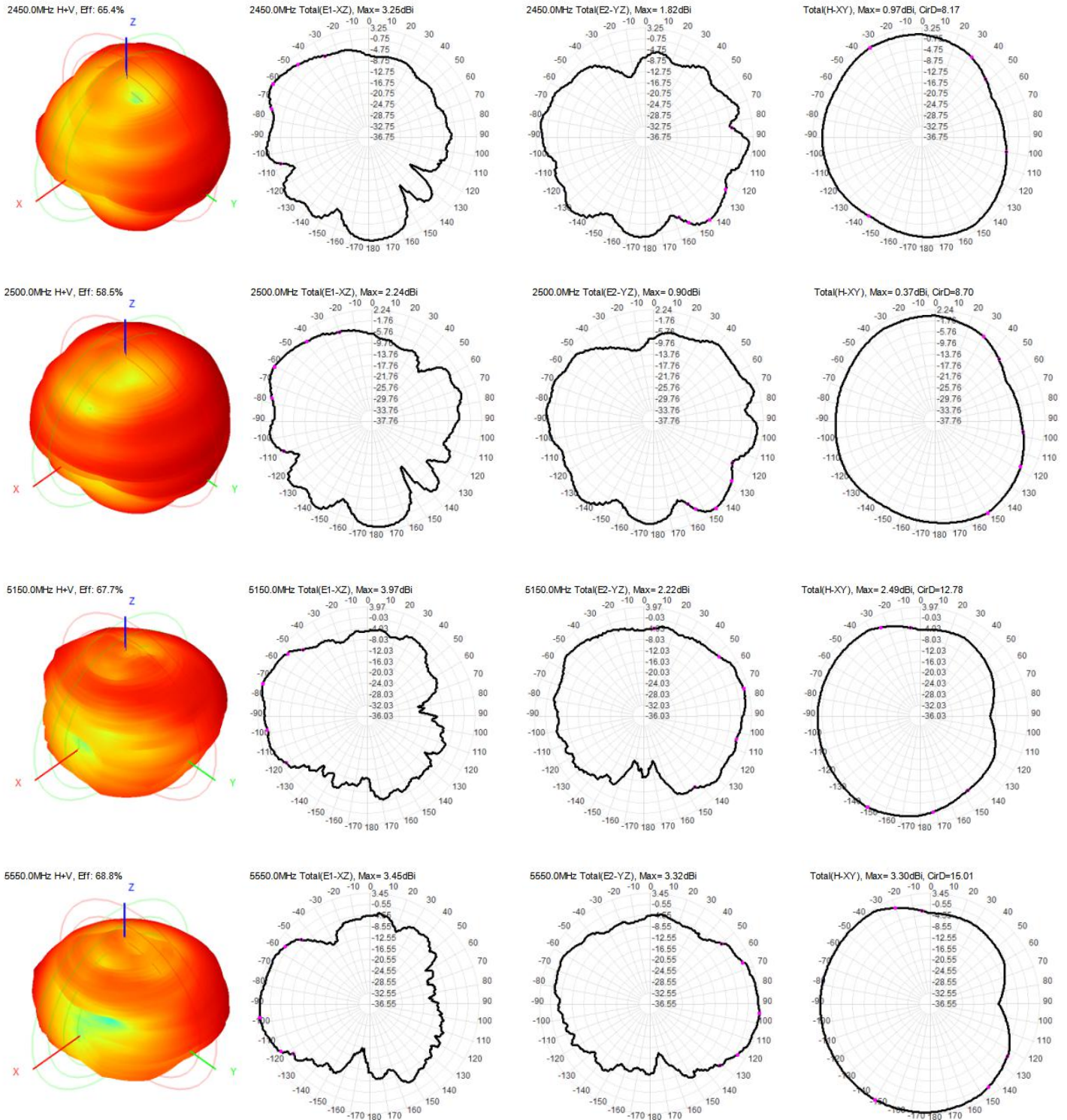
4. Antenna - Radiation Pattern Test Data

Frequency ID	1	6	11	12	20	26
Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5550.0	5850.0
Gain (dBi)	2.06	3.25	2.24	3.97	4.17	3.35
Efficiency (%)	59.18	65.43	58.51	67.67	68.75	64.19



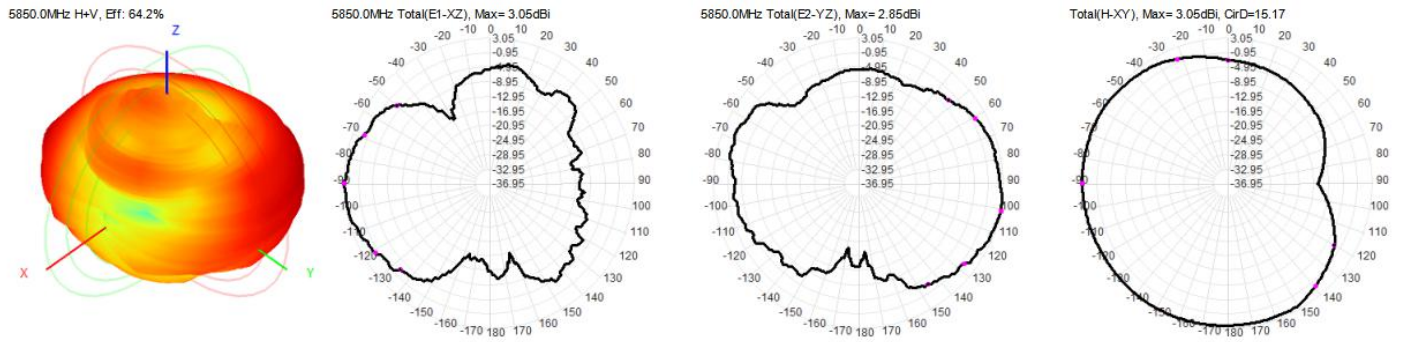
Product Number: AN2450-FPC16GX

Product Name: FPC Antenna

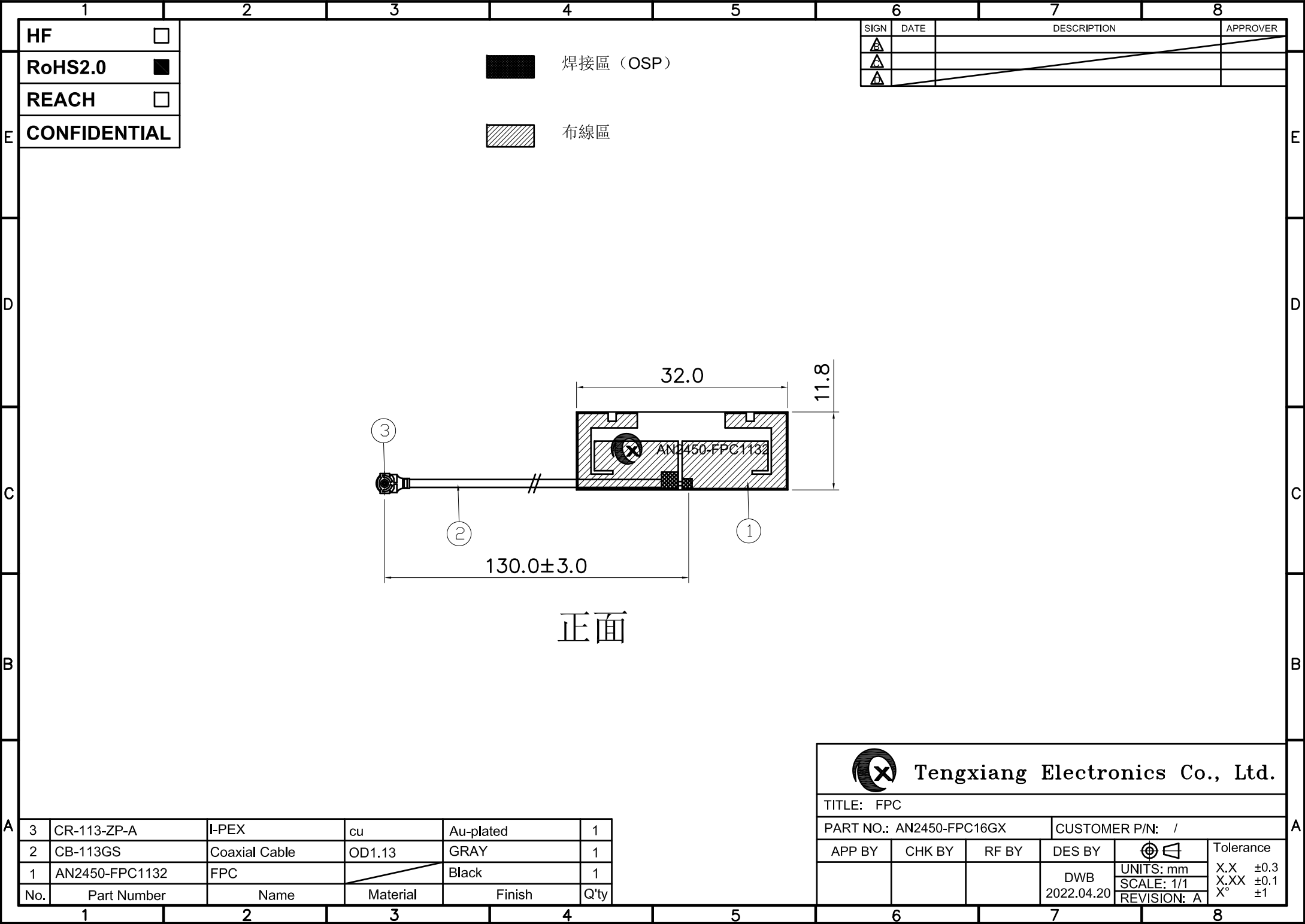


Product Number: AN2450-FPC16GX

Product Name: FPC Antenna



5. Mechanical Drawing (See attached files)



HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

焊接區 (OSP)

布線區

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

 Tengxiang Electronics Co., Ltd.					
TITLE: FPC					
PART NO.: AN2450-FPC16GX			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance
			DWB	UNITS: mm	X.X ±0.3
			2022.04.20	SCALE: 1/1	X.XX ±0.1
				REVISION: A	X° ±1