

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

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

承認書

SPECIFICATION FOR APPROVAL

騰祥料號 SOREDE P/N	AN2450-PCB1619-BZ
品名 / 規格 DESCRIPTION	2. 4/5. 8G黑色PCB, 19. 4*16. 2*T0. 6mm
騰祥送樣編號 SOREDE DWG#	210114003
送樣日期 SAMPLE DATE	2021/1/14

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	邓文兵

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-PCB1619-BZ

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500MHz / 5150-5850 MHz
S.W.R.	≤ 2.0 / ≤ 2.5
Antenna Gain	3.72dBi / 2.68dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Material of Plastic	/
Cable Type	/
Connector Type	/
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

Product Number: AN2450-PCB1619-BZ

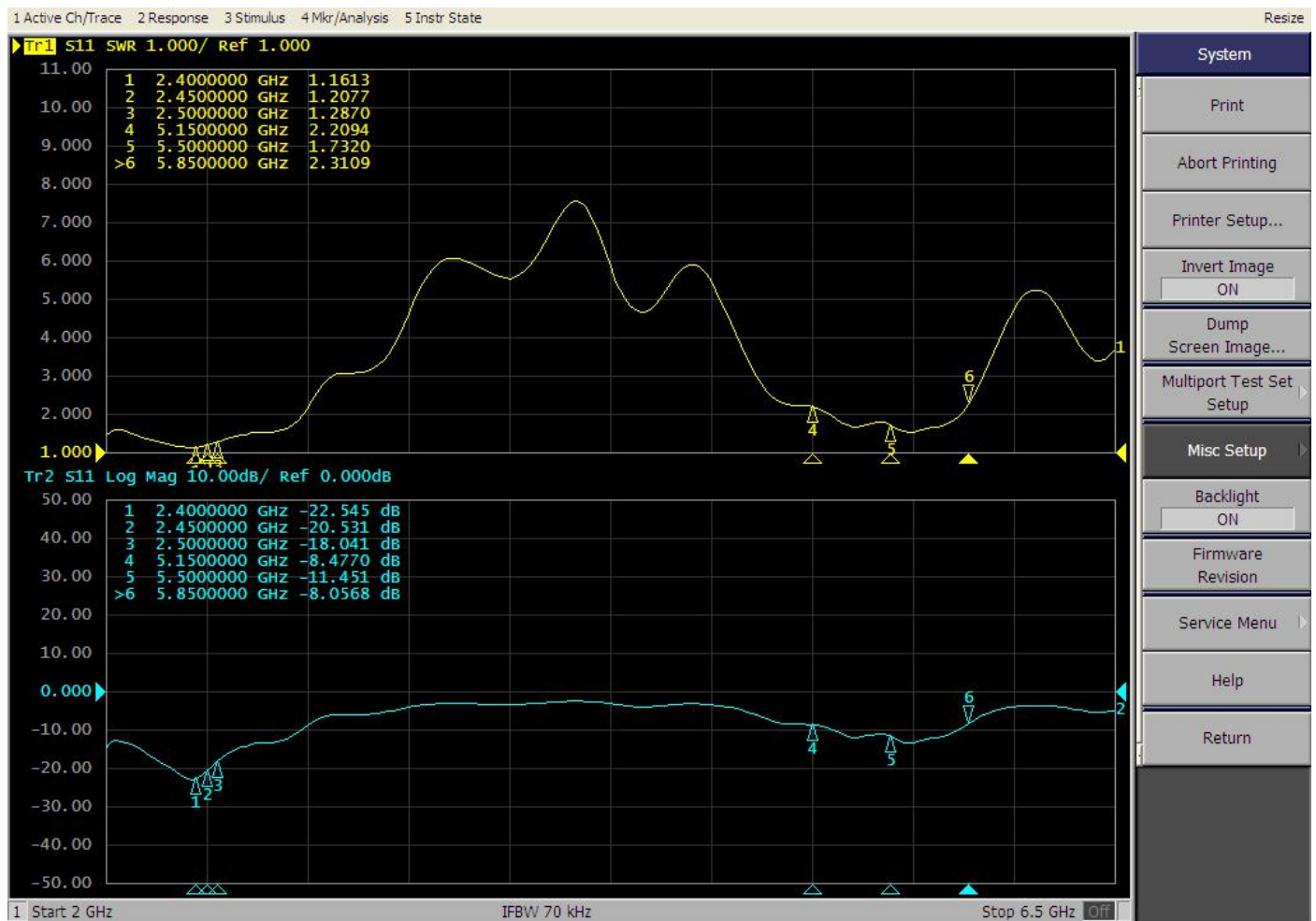
Product Name: Antenna

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: 24 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 2020/863/EU

3. Antenna - S Parameter Test Data

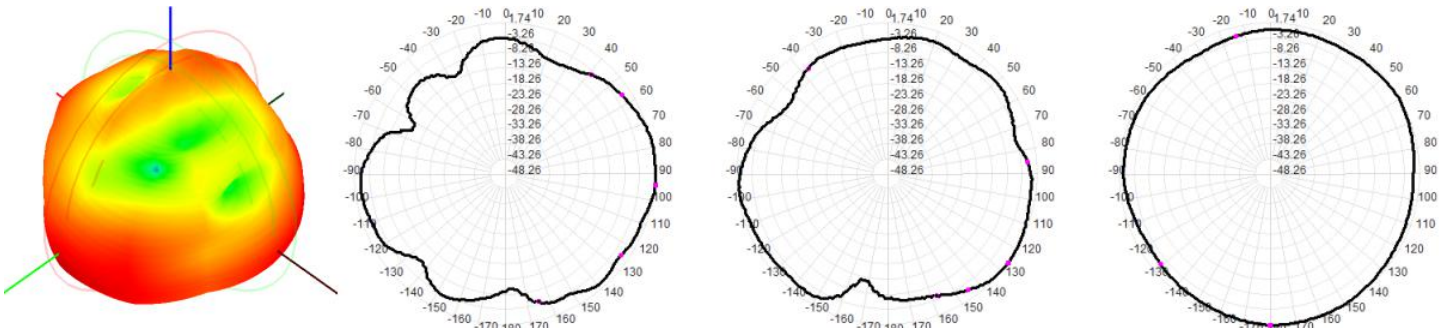
Product Number:AN2450-PCB1619-BZ

Product Name: Antenna



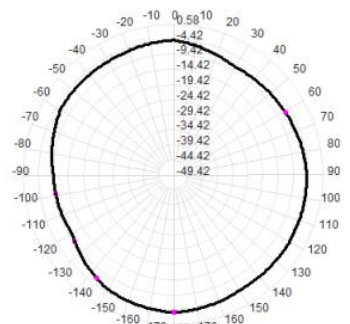
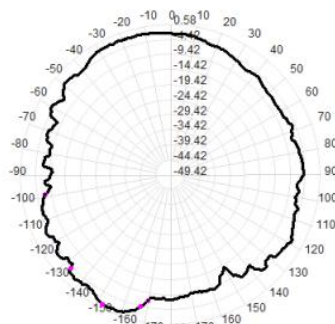
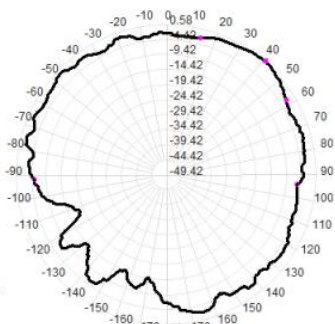
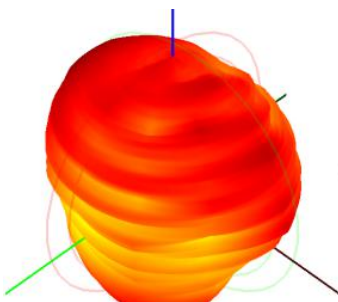
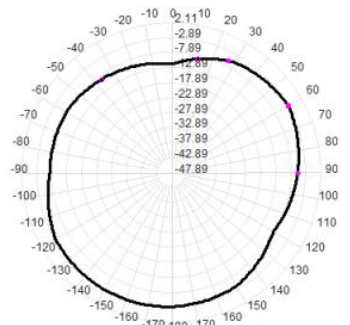
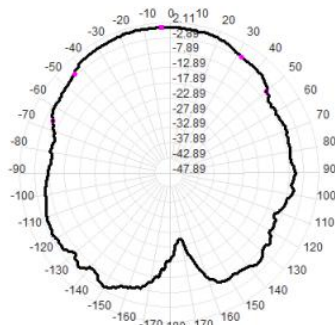
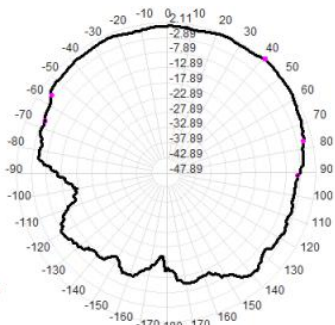
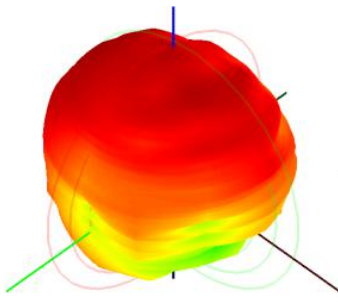
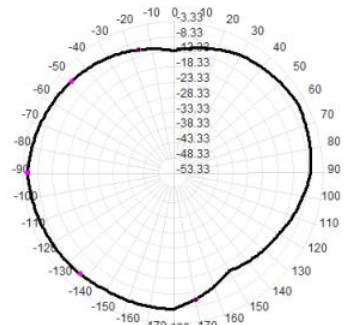
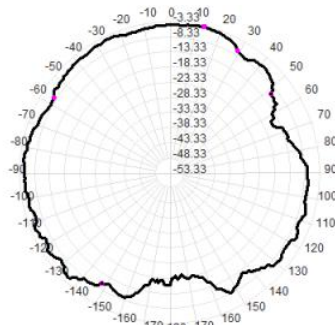
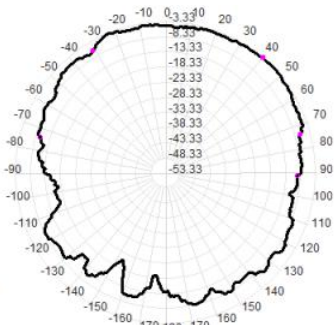
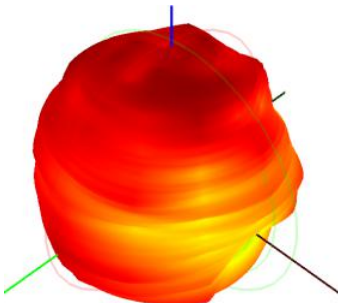
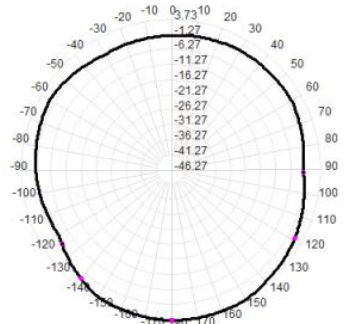
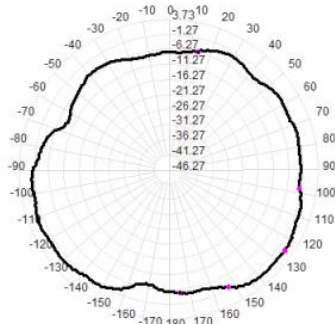
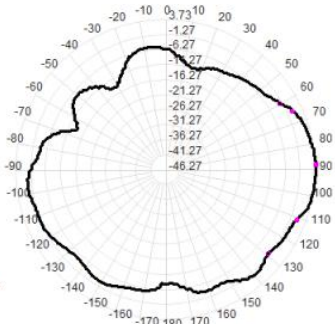
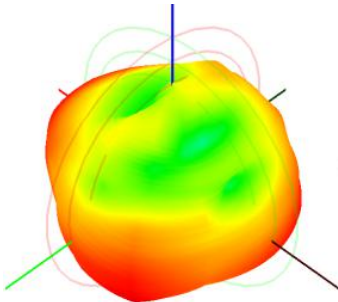
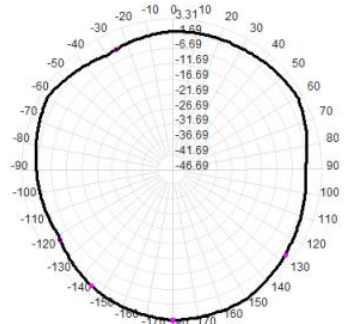
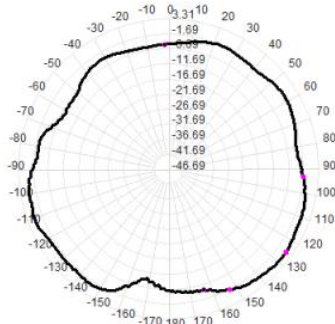
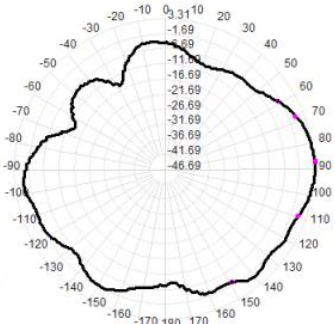
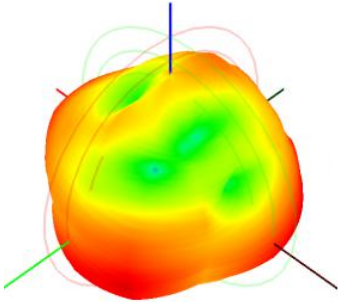
4. Antenna - Radiation Pattern Test Data

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
Gain (dBi)	2.68	2.95	2.92	2.94	3.12	3.28	3.48	3.62	3.60	3.71	3.72	1.58	1.46	1.68	1.45	1.21	1.12	1.35	2.22	2.31	2.68	2.35	2.25	1.96	0.98	0.78
Efficiency (%)	69.05	68.85	67.79	68.12	68.01	67.75	70.01	69.25	68.56	68.99	68.45	37.94	36.63	38.56	37.95	37.74	38.33	42.15	45.21	46.35	50.12	50.25	49.34	48.56	40.56	38.88

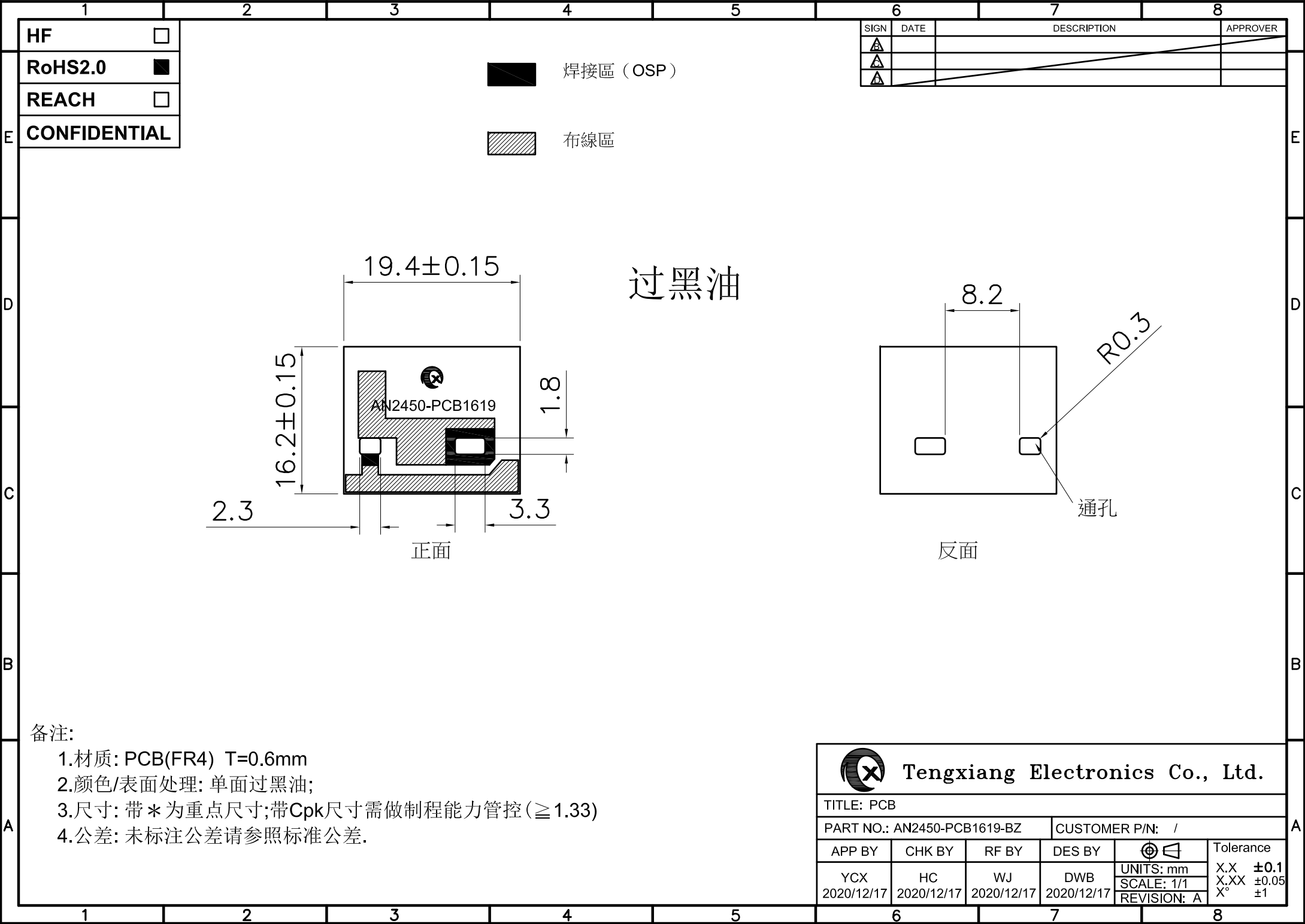


Product Number: AN2450-PCB1619-BZ

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5. Mechanical Drawing (See attached files)



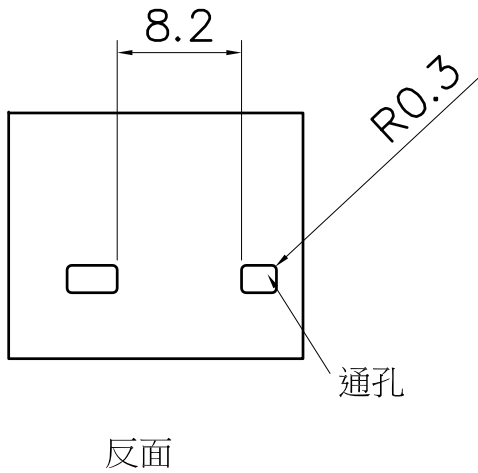
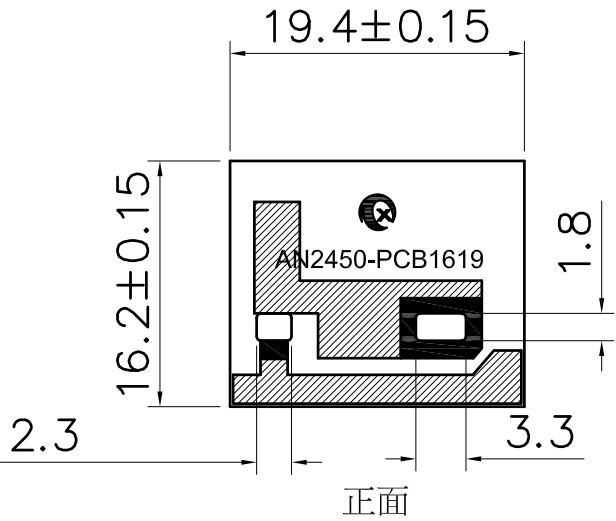
HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

焊接區 (OSP)

布線區

过黑油



备注:

- 1.材质: PCB(FR4) T=0.6mm
- 2.颜色/表面处理: 单面过黑油;
- 3.尺寸: 带* 为重点尺寸;带Cpk尺寸需做制程能力管控 (≥ 1.33)
- 4.公差: 未标注公差请参照标准公差.

 Tengxiang Electronics Co., Ltd.					
TITLE: PCB					
PART NO.: AN2450-PCB1619-BZ				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	DWB		X.X ±0.1
2020/12/17	2020/12/17	2020/12/17	2020/12/17		X.XX ±0.05
				UNITS: mm	X° ±1
				SCALE: 1/1	
				REVISION: A	

產品包裝規範

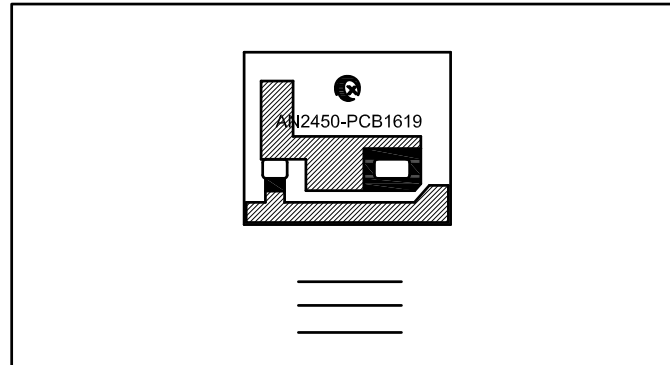
PACKING CRITERION

Date: 2020.12.17

Page: 1 of 1

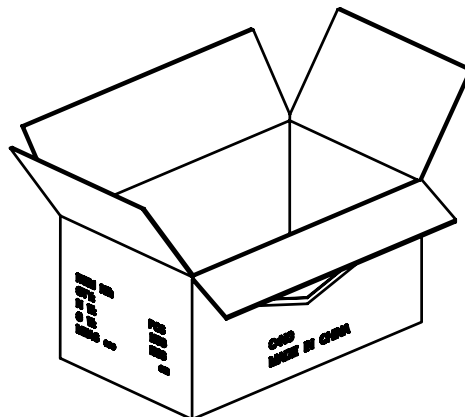
Part Number : AN2450-PCB1619-BZ	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



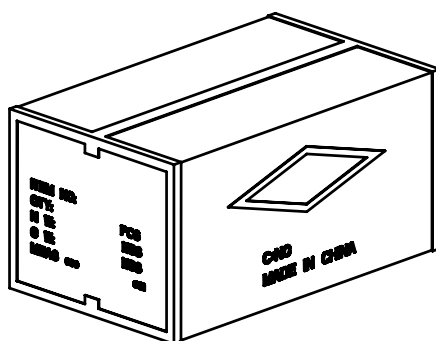
100pcs/ PE bag

2.PACKING 。

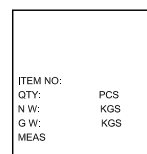


8000pcs/Carton

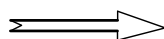
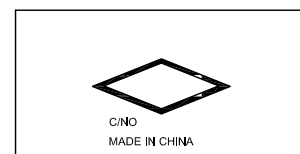
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX CHECKED BY : HC DESIGNED BY : DWB