

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-SNA195498
品 名 / 規 格 DESCRIPTION	2.4/5G 金属片天线
騰祥送樣編號 SOREDE DWG#	
送样日期 SAMPLE DATE	2022.5.10

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	

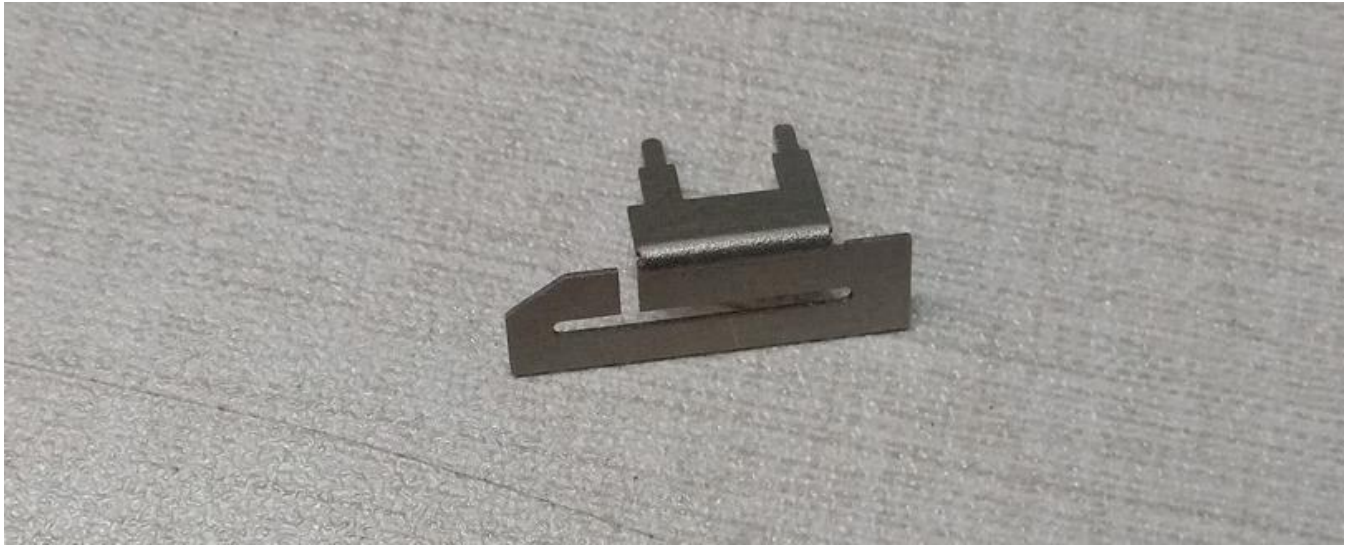
CUSTOMER APPROVAL/客户审核			
APPROVED BY 核 准	Q.C.DEPT. 品 管	CHECKED BY 审核	TESTED BY 檢 測

Product Number: AN2450-SNA195498

Product Name: Antenna

1. Specification

Sample Photo



A. Electrical Characteristics

Frequency	2400-2500MHz / 5150-5850 MHz
S.W.R.	波形一致
Antenna Gain	-1.36dBi / 3.46dBi
Polarization	Linear
Impedance	50 Ohm

B. Material & Mechanical Characteristics

Material of Radiator	/
Material of Plastic	SUS304
Cable Type	T0.4mm

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



Tengxiang Technology.Inc

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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: - 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: 85°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 - SParameter Test Data

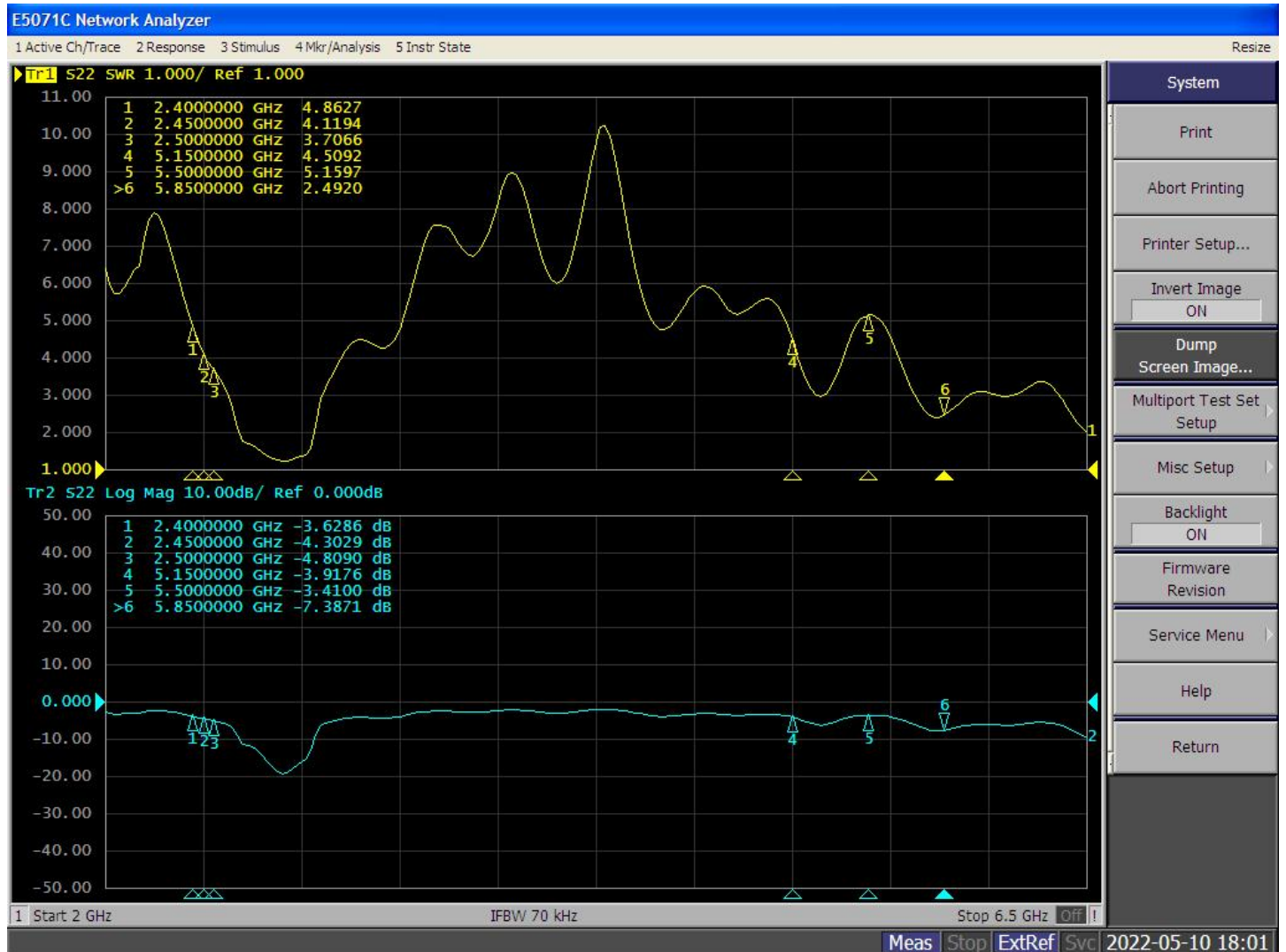


Tengxiang Technology.Inc

Product Number: AN2450-SNA195498

Product Name: Antenna

蓝牙天线



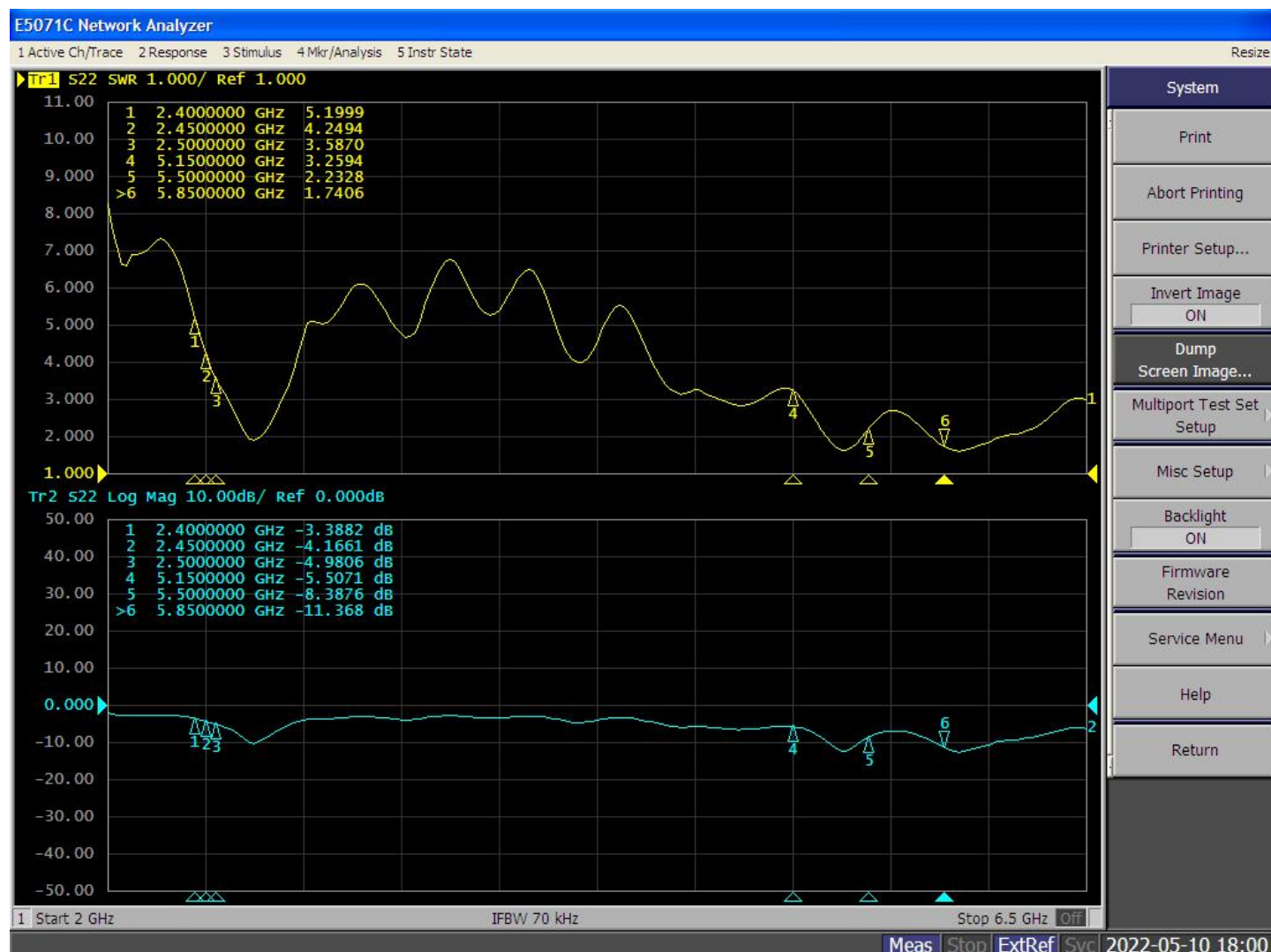


Tengxiang Technology.Inc

Product Number: AN2450-SNA195498

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WIFI 双频天线



4. Antenna - Radiation Pattern Test Data

蓝牙天线

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)	-1.49	-1.27	-1.05	-0.85	-0.70	-0.36	-0.50	-0.45	-0.19	0.05	0.55
Efficiency (%)	20.33	21.07	21.91	22.64	23.47	25.54	24.70	25.26	26.61	28.17	30.97

WIFI 双频天线

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)	-3.55	-3.38	-3.12	-3.18	-3.06	-2.74	-2.91	-2.66	-2.41	-1.97	-1.36
Efficiency (%)	13.98	14.38	15.30	15.40	16.11	17.53	16.85	17.62	18.54	20.36	22.81

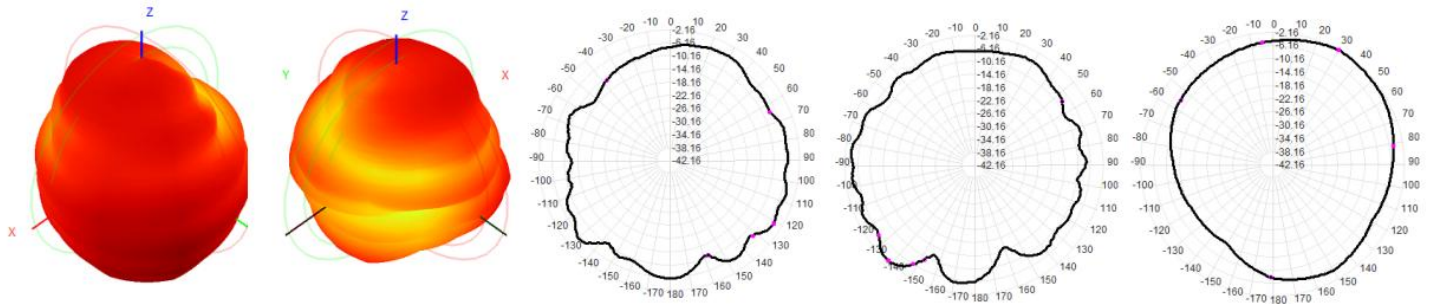
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Product Name: Antenna

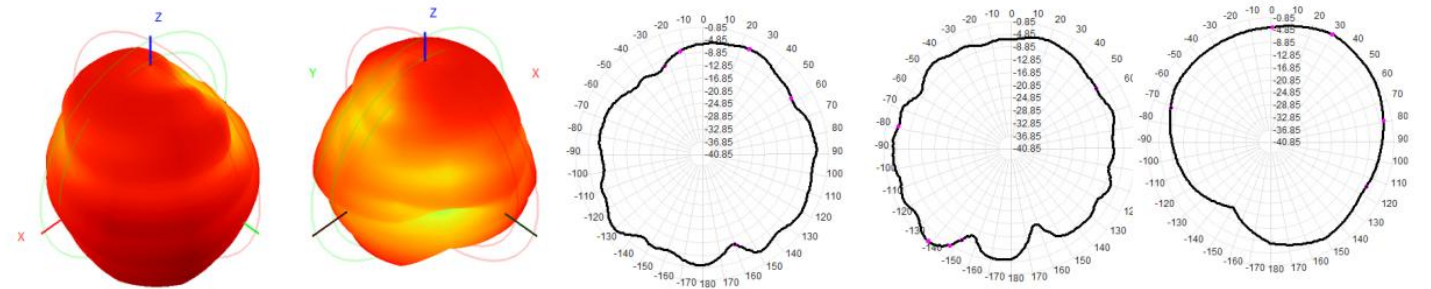
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain (dBi)	1.41	1.54	1.83	1.53	2.97	3.46	2.88	2.27	2.86	2.77	2.64	2.22	2.75	3.03	3.25
Efficiency (%)	40.11	43.27	46.72	44.52	46.27	49.34	51.02	44.33	48.50	49.26	47.45	42.32	45.78	45.60	45.67

蓝牙天线

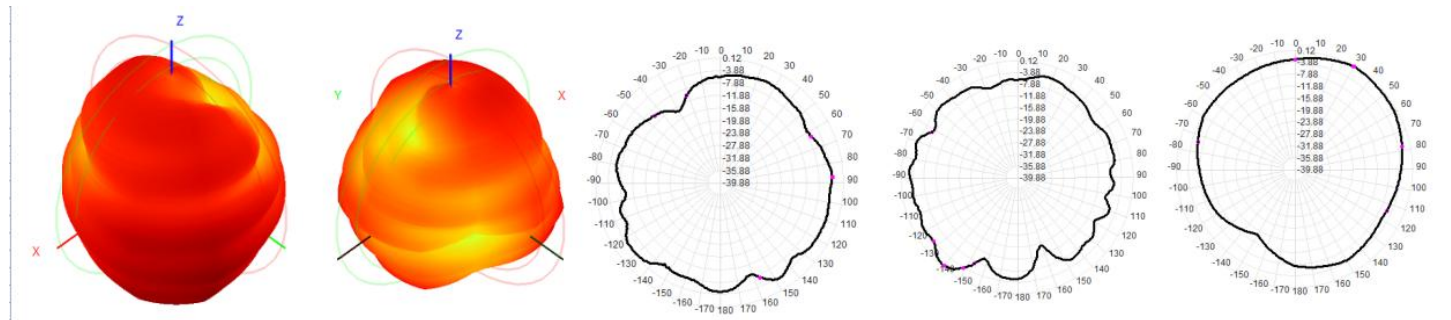
2400MHz



2450MHz



2500MHz

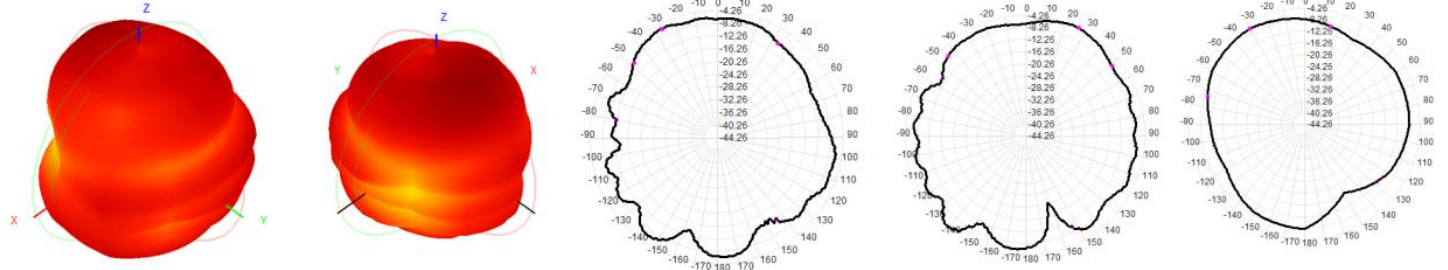


Product Number: AN2450-SNA195498

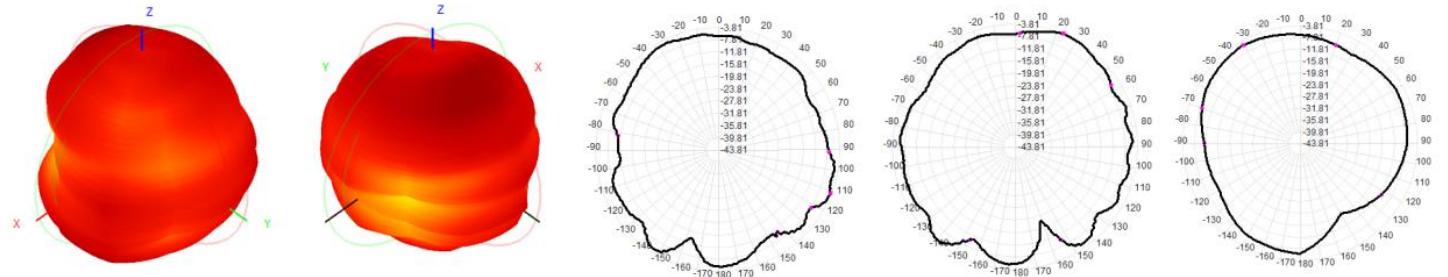
Product Name: Antenna

WIFI 双频天线

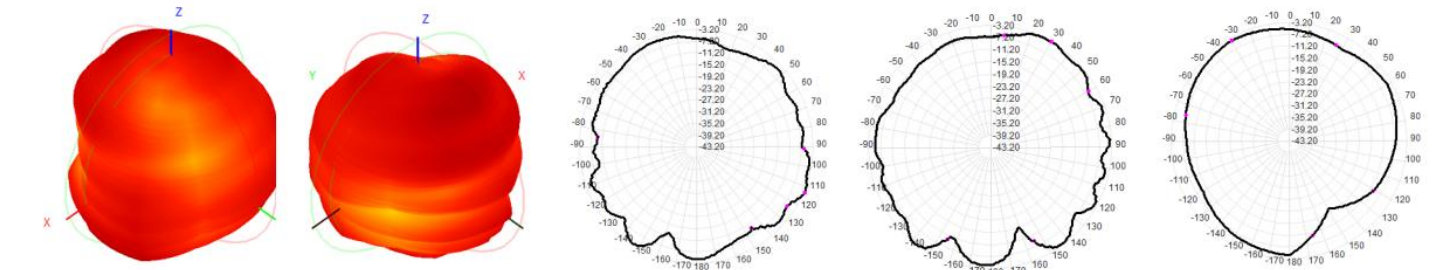
2400MHz



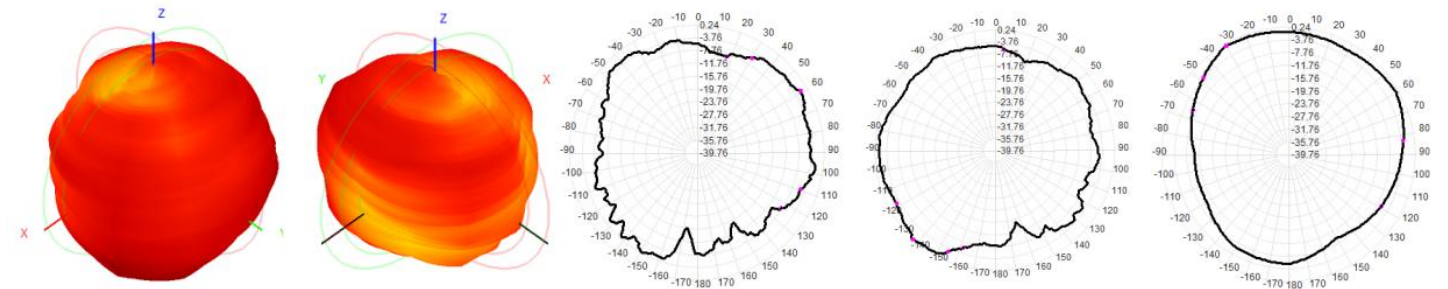
2450MHz



2500MHz



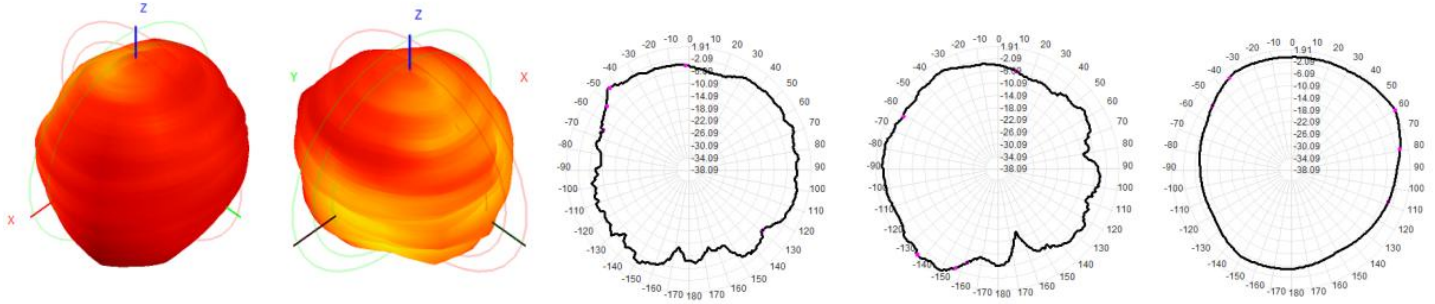
5150MHz



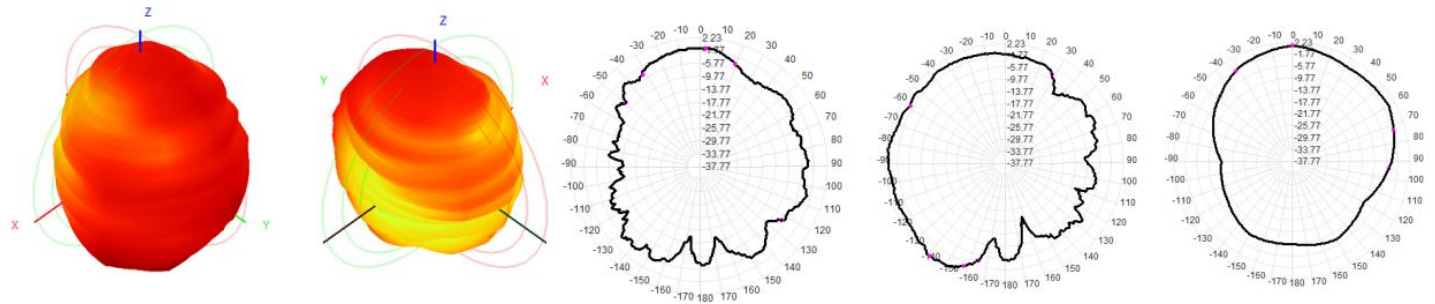
Product Number: AN2450-SNA195498

Product Name: Antenna

5450MHz0



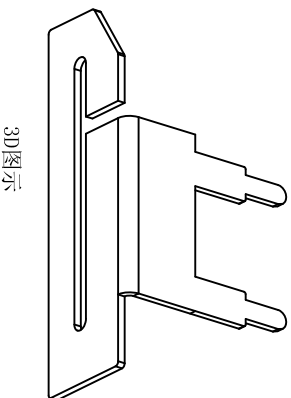
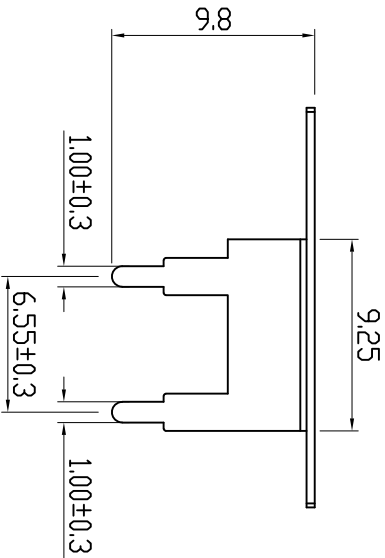
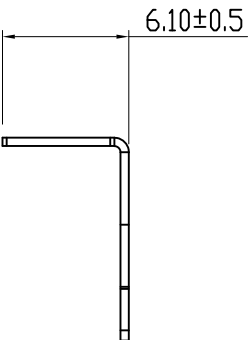
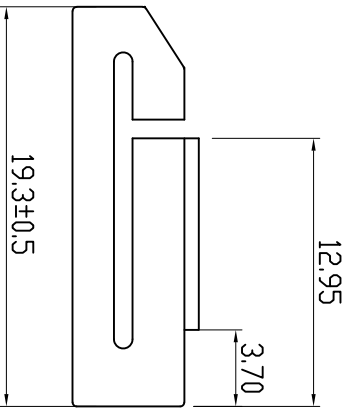
5850MHz



5. Mechanical Drawing (See attached files)

HF	☐
RoHS	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



3D图示

- 备注:
- 1.材质: SUS304 镀镍(镀可焊镍), T=0.4mm
 - 2.公差: 未标注公差请参照标准公差.
 - 3.毛边一致向内.
 - 4.未注倒角: R0.1~0.2mm



Tengxiang Electronics Co., Ltd.

TITLE: 2400-2500 / 5150-5850 MHz

PART NO.: AN2450-SNA195498

CUSTOMER P/N: /

APP BY	CHK BY	RF BY	DES BY	UNITS: mm	SCALE: 1/1	REVISION: A	Tolerance
			LRK				X.X ±1.0 X.XX ±0.5 X° ±1
			2022.05.10				

產品包裝規範

PACKING CRITERION

Date: 2022.05.10

Page: 1 of 1

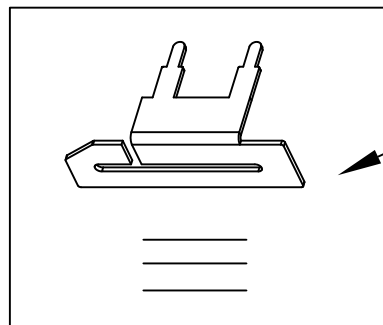
Part Number : AN2450-SNA195498

Revision : A

Name: Antenna

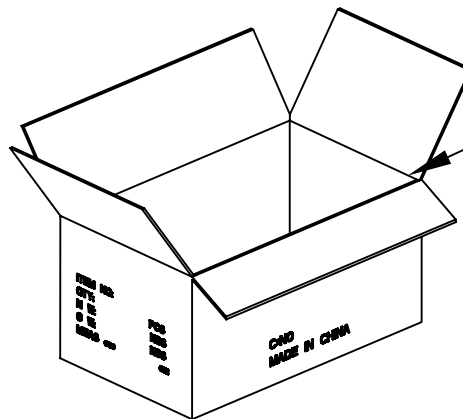
Customer : ALL

1 . Enter PE bag。



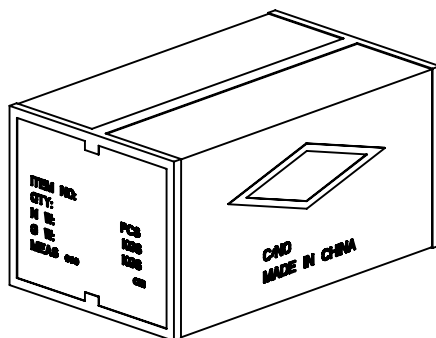
吸塑包装

2.PACKING。

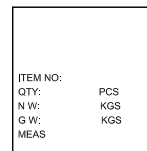


纸箱包装

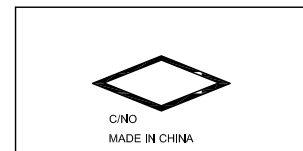
3. SEALING。



SIDE



FRONT



APPROVED BY: YCX

CHECKED BY: HC

DESIGNED BY: LRK