

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

腾祥料號 SOREDE P/N	AN2450-SNA195498
品名/規格 DESCRIPTION	2.4/5G 金属片天线
腾祥送樣編號 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

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蓝牙天线

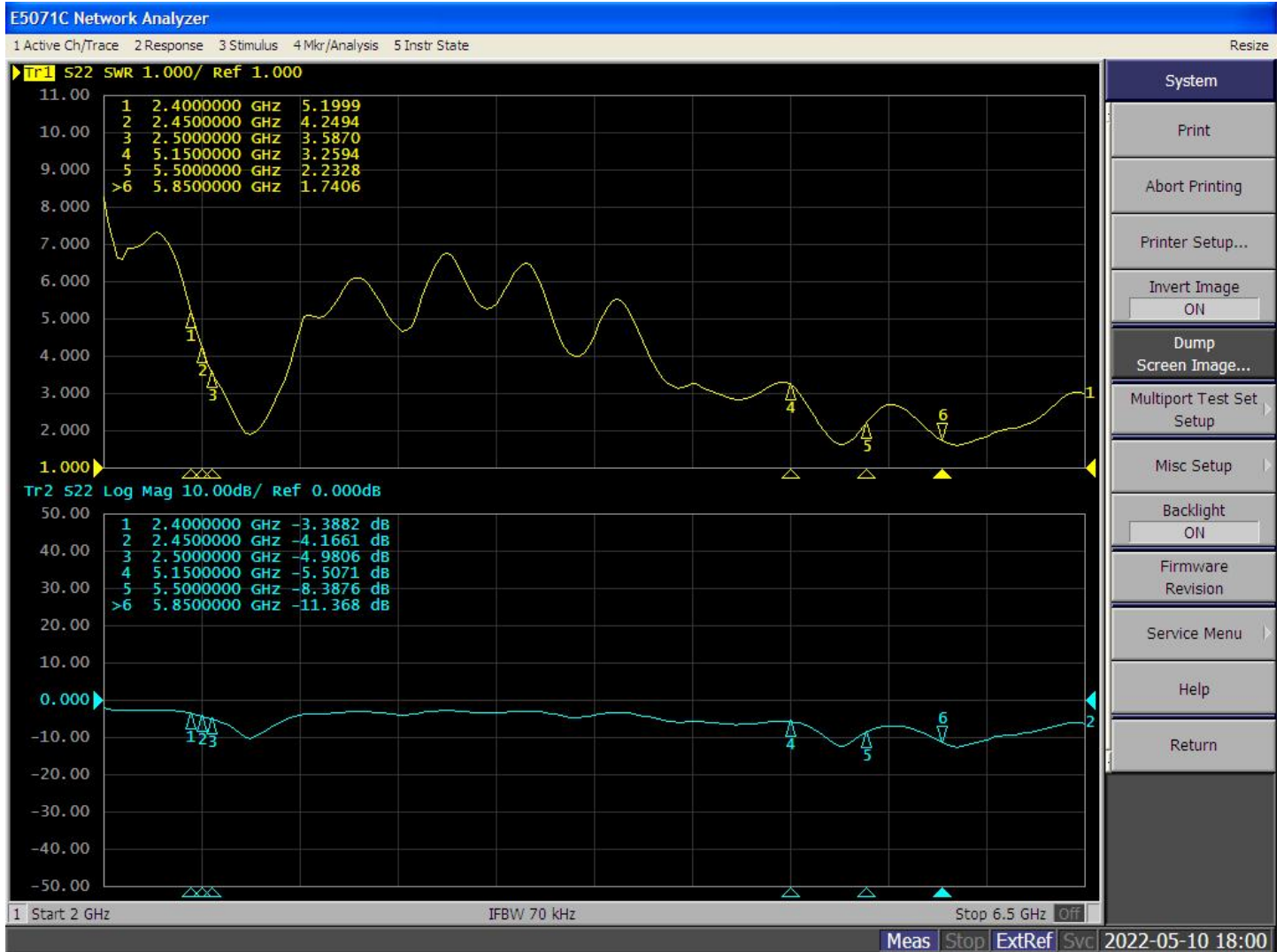




Product Number: AN2450-SNA195498

Product Name: Antenna

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

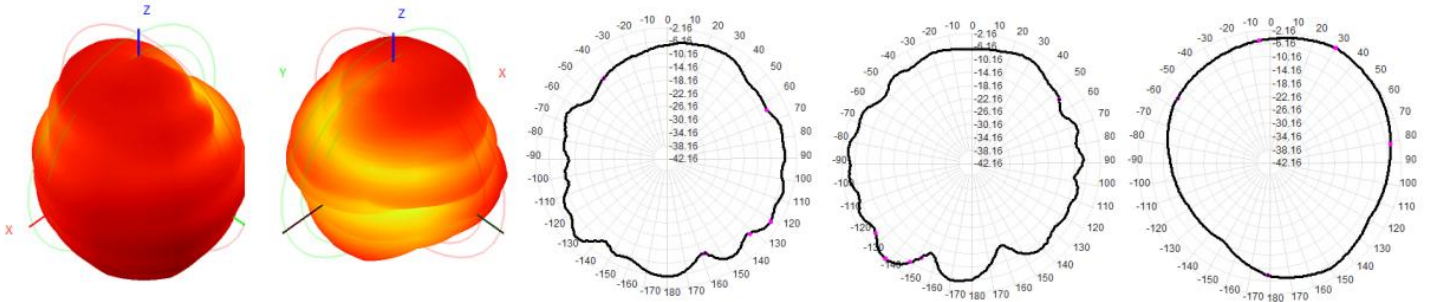
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Product Name: Antenna

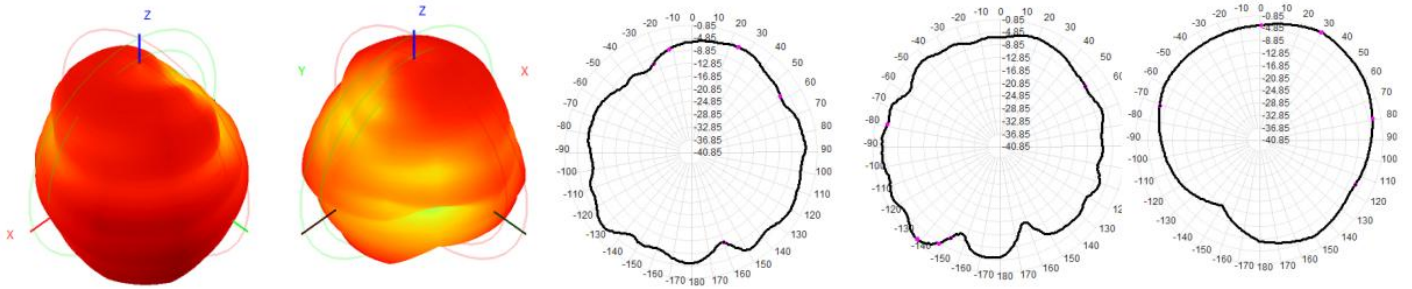
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain (dBi)	1.41	1.54	1.83	1.53	2.97	3.46	2.88	2.27	2.86	2.77	2.64	2.22	2.75	3.03	3.25
Efficiency (%)	40.11	43.27	46.72	44.52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

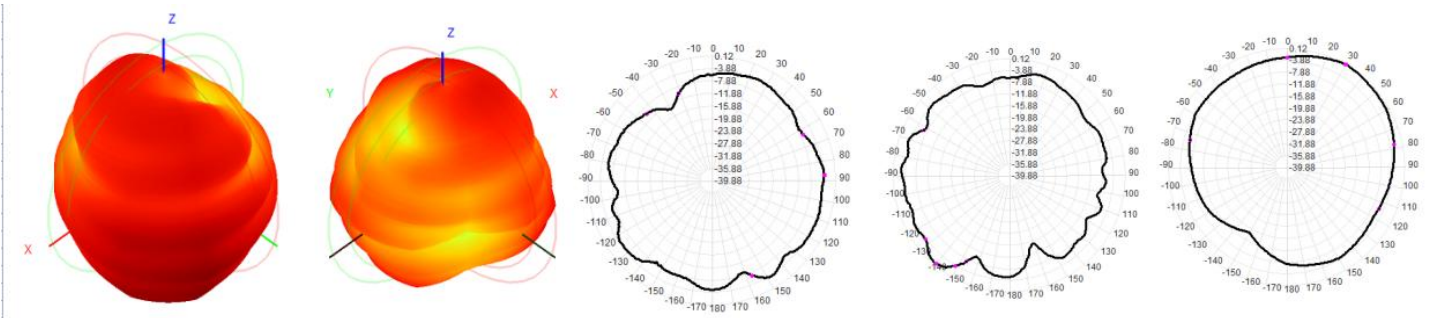
2400MHz



2450MHz



2500MHz

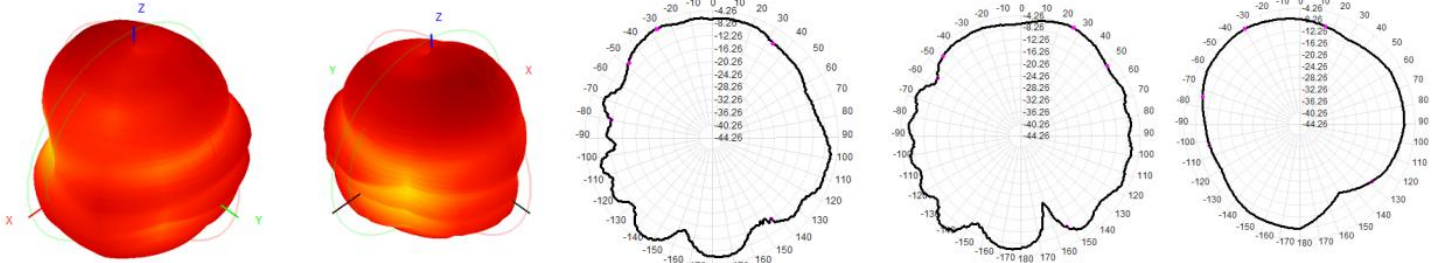


Product Number: AN2450-SNA195498

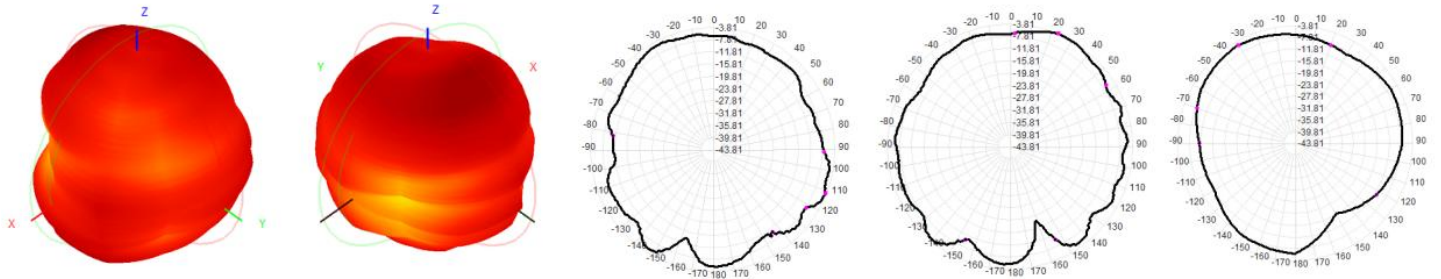
Product Name: Antenna

WIFI 双频天线

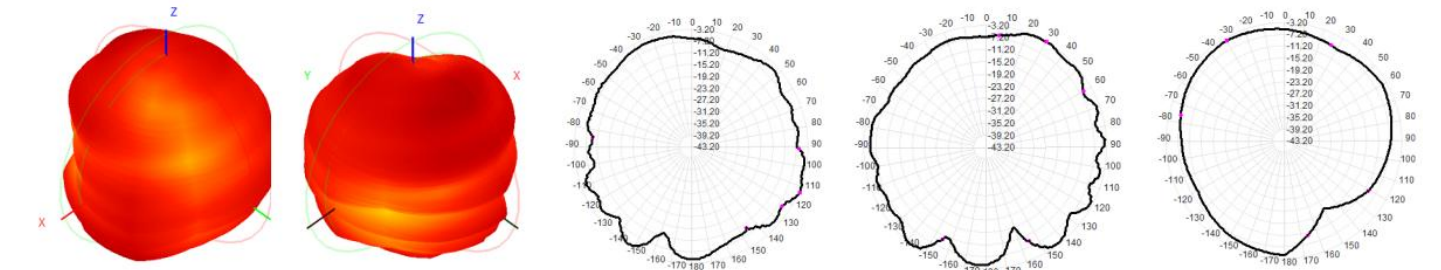
2400MHz



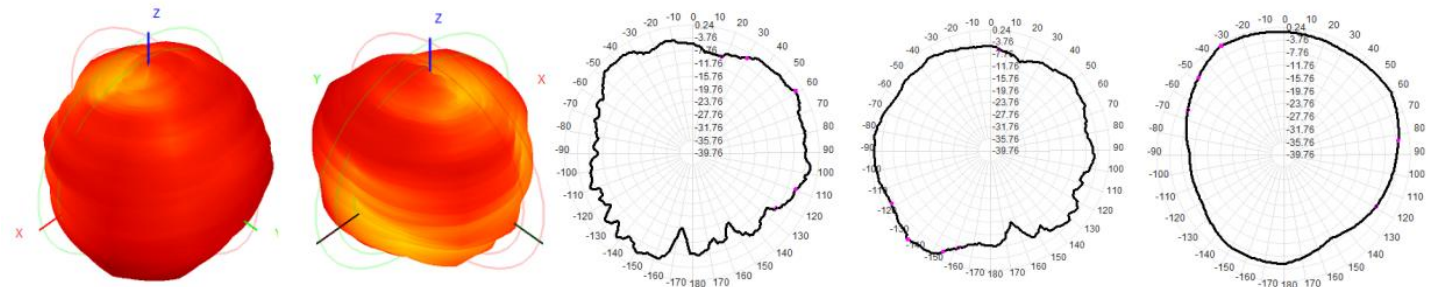
2450MHz



2500MHz



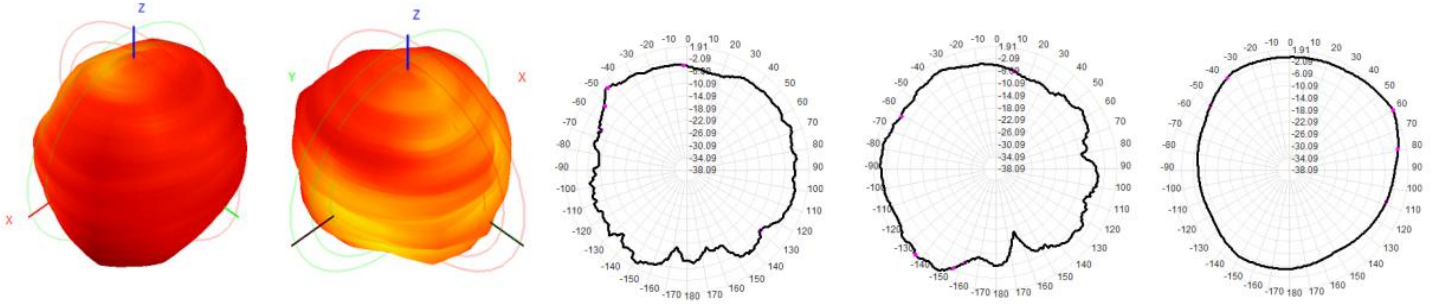
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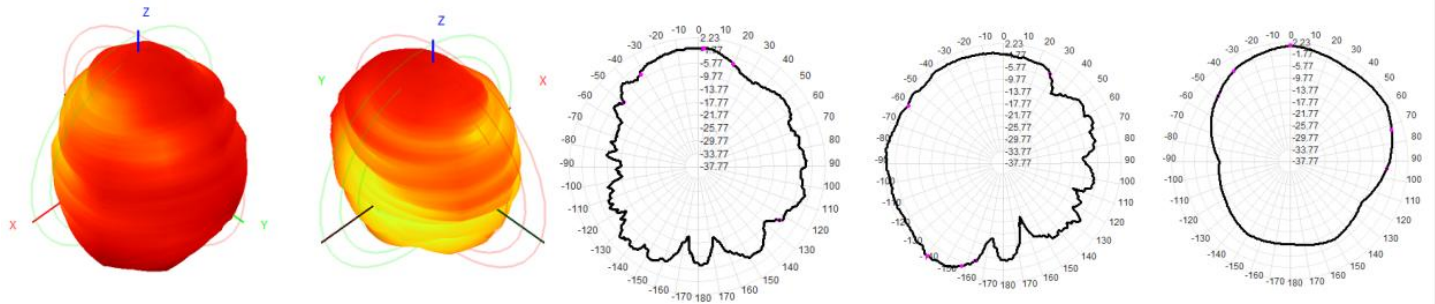
Product Number: AN2450-SNA195498

Product Name: Antenna

5450MHz0



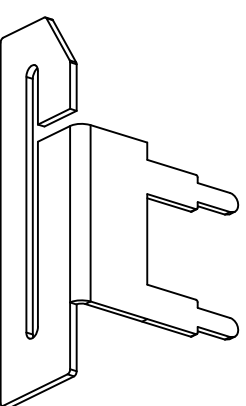
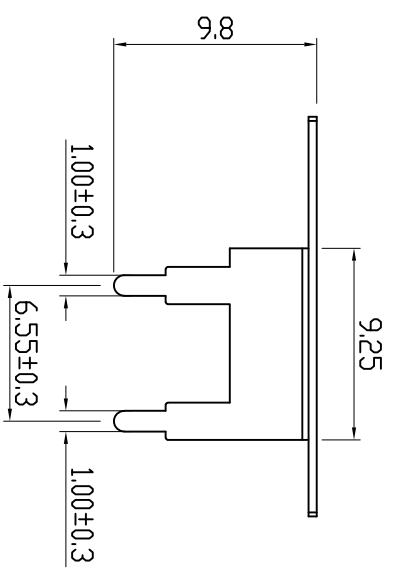
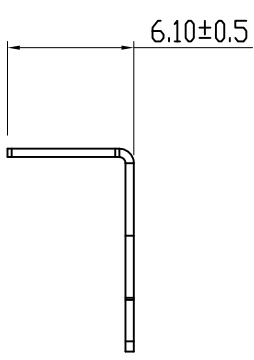
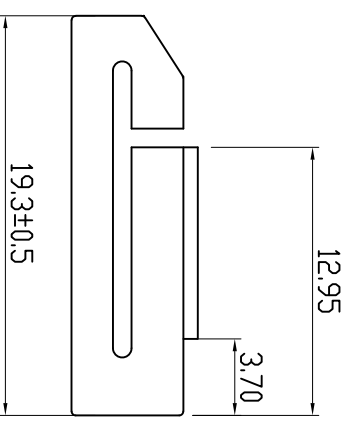
5850MHz



5. Mechanical Drawing (See attached files)

HF	<input type="checkbox"/>
RoHS	<input checked="" type="checkbox"/>
REACH	<input type="checkbox"/>
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	UNIT S:	SCALE:	REVISION:	Tolerance
			LRK	mm	1/1	A	X.X ±1.0 X.XX ±0.5 X ±1

產品包裝規範

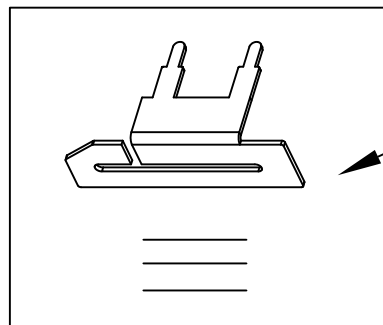
PACKING CRITERION

Date: 2022.05.10

Page: 1 of 1

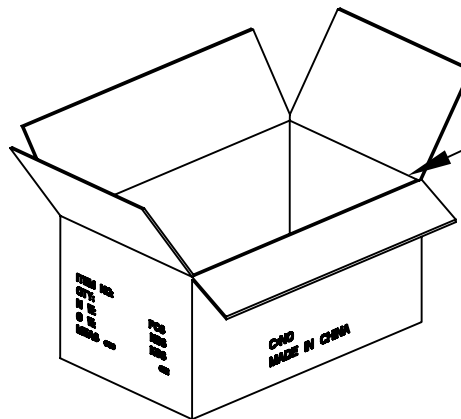
Part Number : AN2450-SNA195498	Revision : A
Name: Antenna	Customer : ALL

1. Enter PE bag.



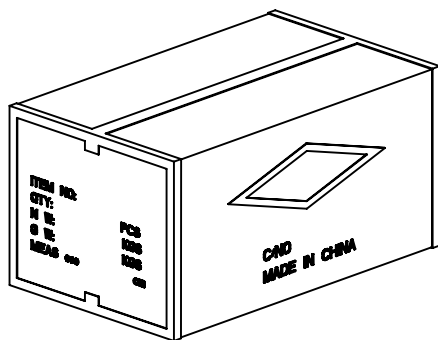
吸塑包装

2.PACKING.

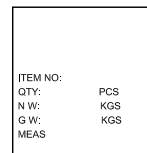


纸箱包装

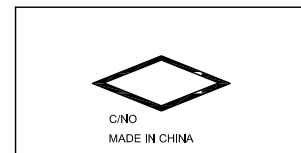
3. SEALING.



SIDE



FRONT



APPROVED BY: YCX

CHECKED BY: HC

DESIGNED BY: LRK