



Tengxiang Electronics Co., Ltd.

Product Number: AN2450-PCB25BX

Product Name: Antenna

Specification For Approval

Date: 2022.7.22

Version: 1.0

Customer: _____

Customer P/N: 122-20130-000

T X P/N: AN2450-PCB25BX

Description : 2.4G/5G PCB 1.13mm L=200mm+IPEX

Tengxiang Checked By:		Customer Approved By:	
DRAWN		TESTED BY	
CHECKED BY		CHECKED BY	
Q.C.DEPT.		Q.C.DEPT.	
APPROVED BY		APPROVEDBY	



NO 53 Shatou ShaChong Road ChangAn Town, Guangdong province, China

TEL:86-769-81873082 FAX:86-769-82663788



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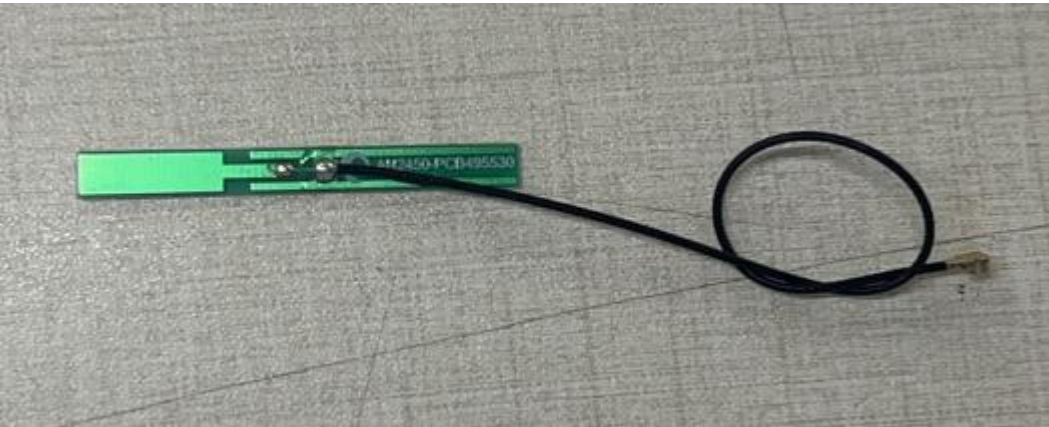
Revision History

Revision	Date	Change Notification	Description
1.0	2022.7.22		

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Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400-2500 MHz / 5150-5850MHz
S.W.R.	<= 2.0 / <= 2.5
Antenna Gain	2.32 dBi / 2.27 dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type	OD1.13mm ,Black
Connector Type	I-PEX
C. Environmental	
Storage Temperature	- 40°C ~ +80 °C
Operation Temperature	- 40°C ~ +80 °C



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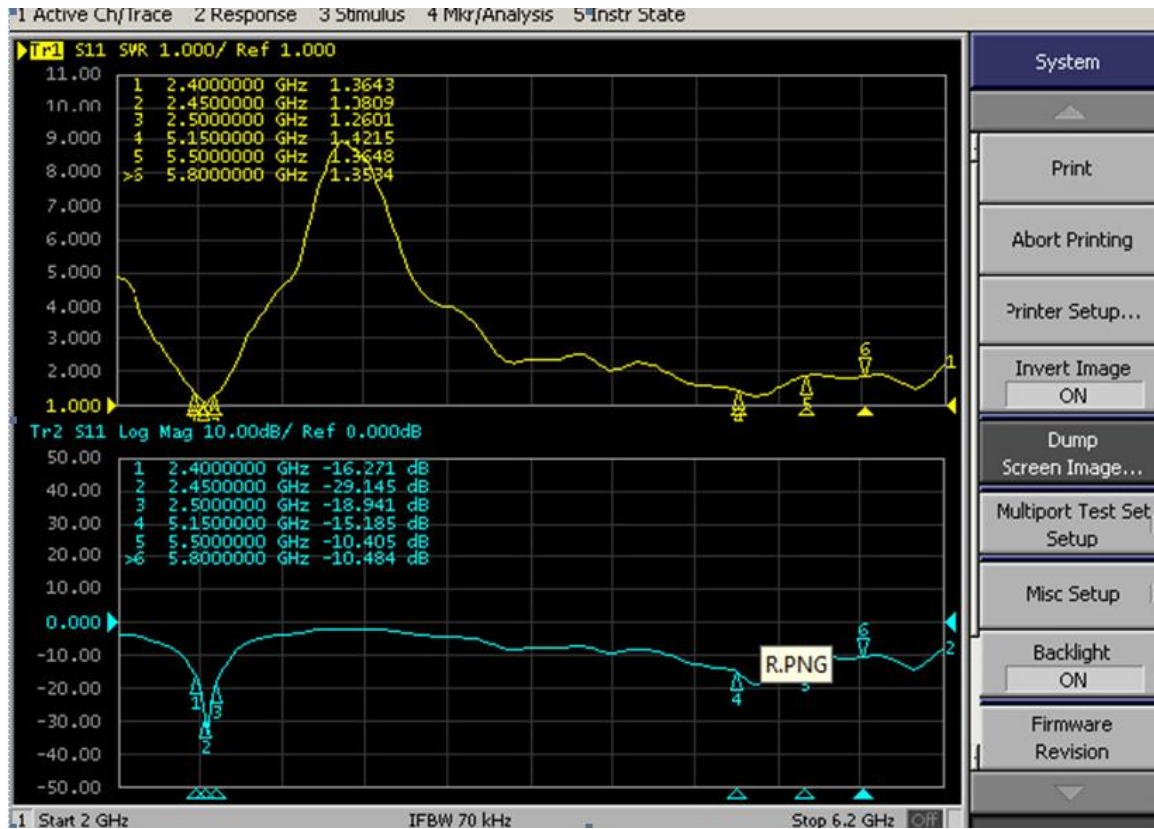
2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements	Result
1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
2	Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
3	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification	PASS
4	Solderability	GB / T2423.28-2005 Temp: $260 \pm 5^{\circ}$ C; Duration: 5 seconds	Tin evenly on full	PASS
5	Pull Test	Holding with individual specification; force applied to axis of terminal .	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$	PASS
6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
7	Salt Spray	GB / T 2423.17-2008 Temp: 35° C; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863/EU	PASS

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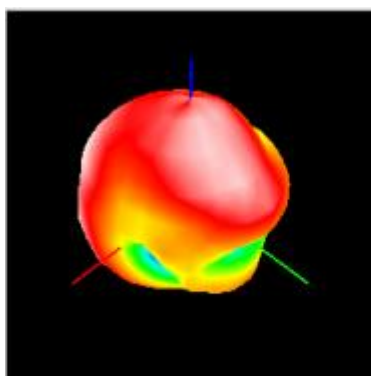
Product Name: Antenna

3. Antenna - S Parameter Test Data

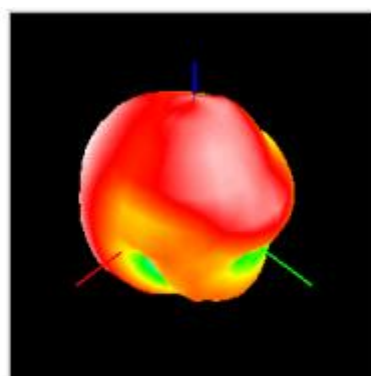


Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5550.0	5850.0
Efficiency (%)	60.5	70.4	67.9	55.2	65.9	59.4
Gain (dBi)	1.67	2.32	2.18	2.05	2.27	1.67

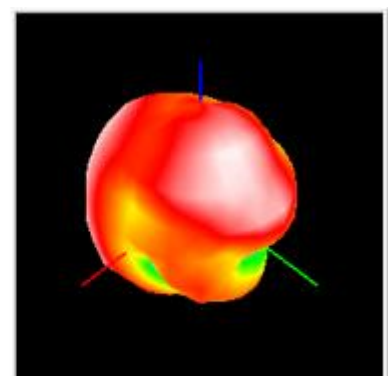
4. Antenna - Radiation Pattern Test Data



2400MHz



2450MHz



2500MHz



Product Number: AN2450-PCB25BX

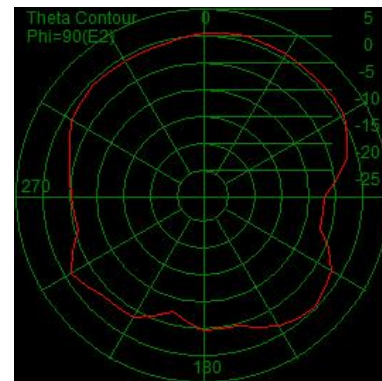
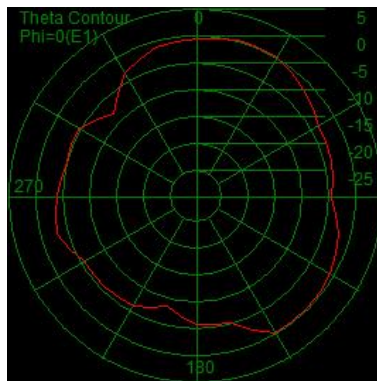
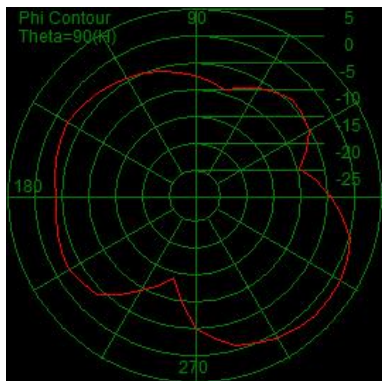
Product Name: Antenna

XY_Plane

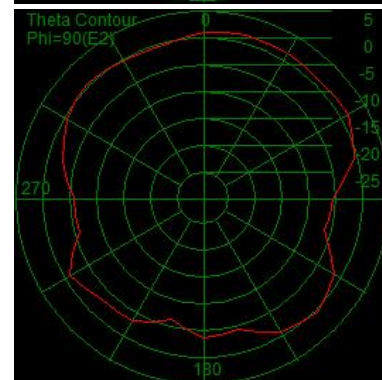
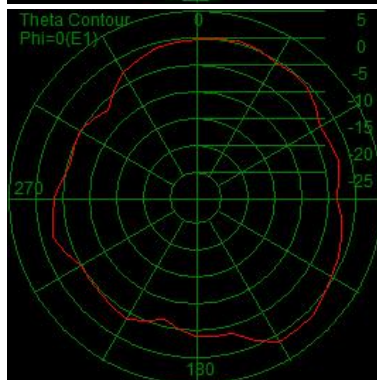
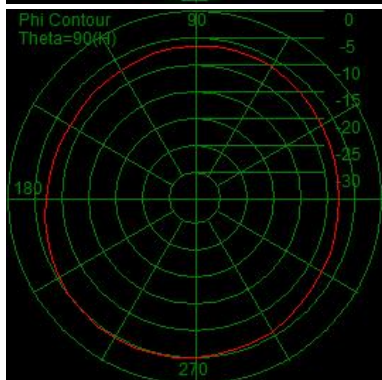
XZ_Plane

YZ_Plane

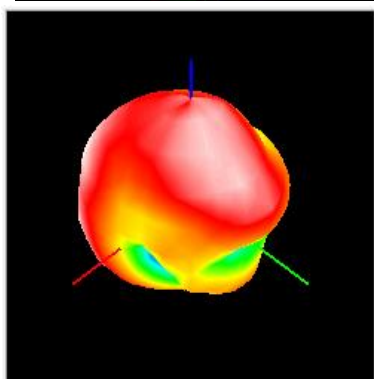
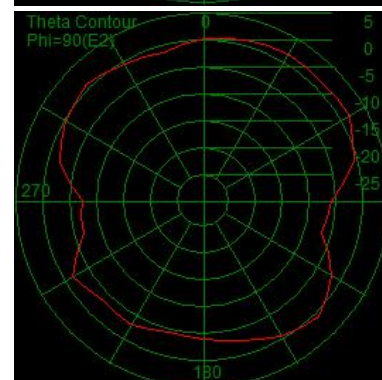
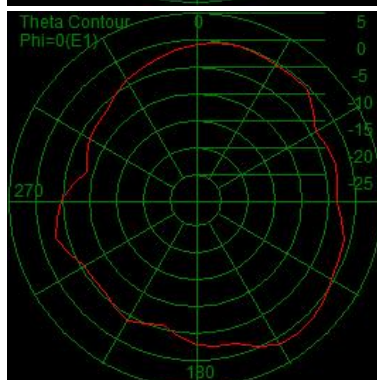
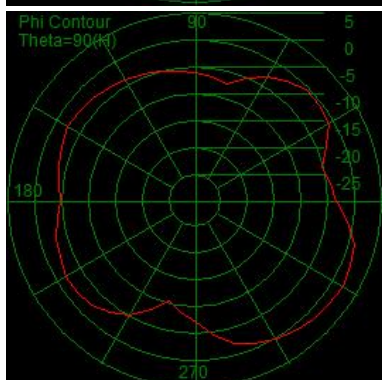
2400MHz



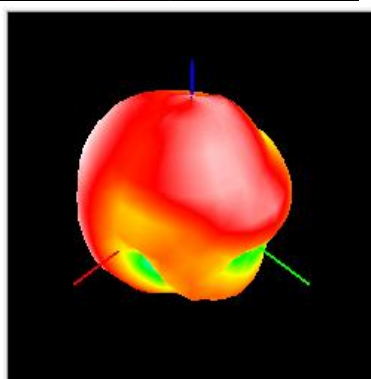
2450MHz



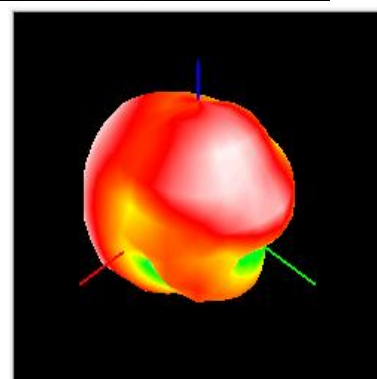
2500MHz



5150MHz



5550MHz



5850MHz



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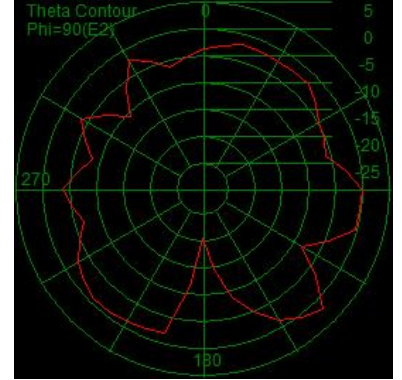
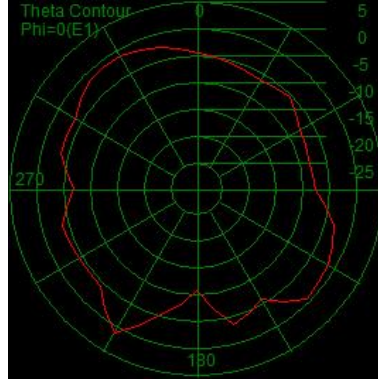
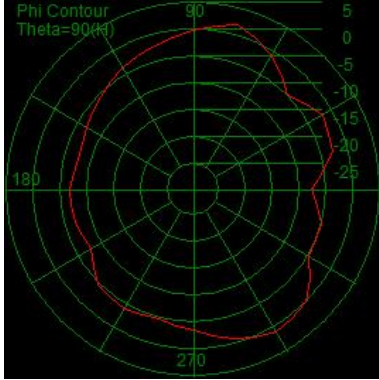
Product Name: Antenna

XY_Plane

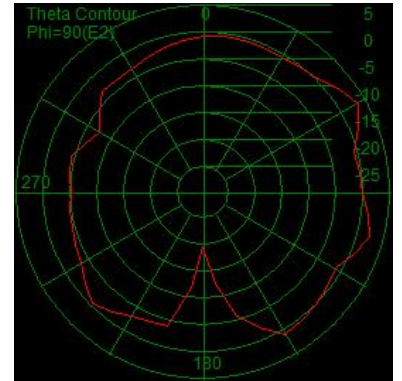
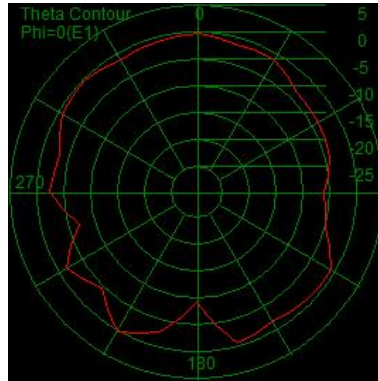
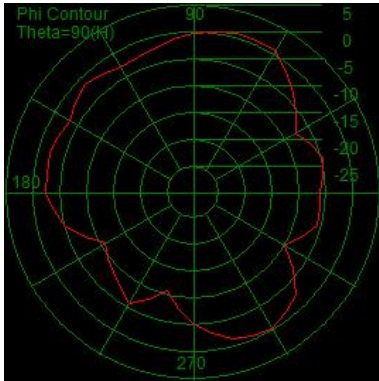
XZ_Plane

YZ_Plane

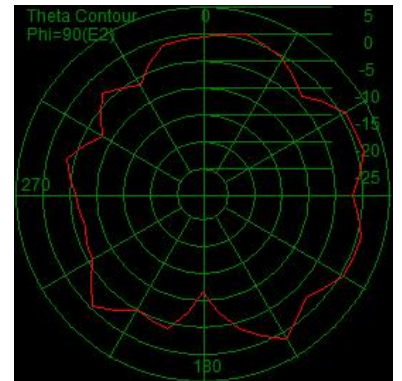
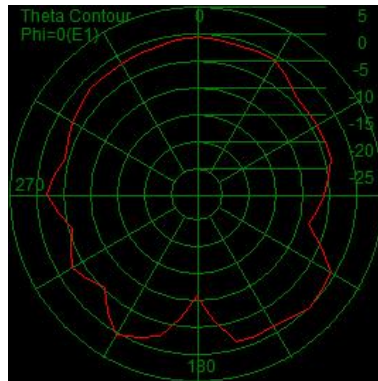
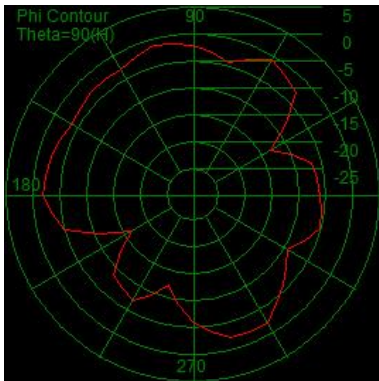
5150MHz



5550MHz





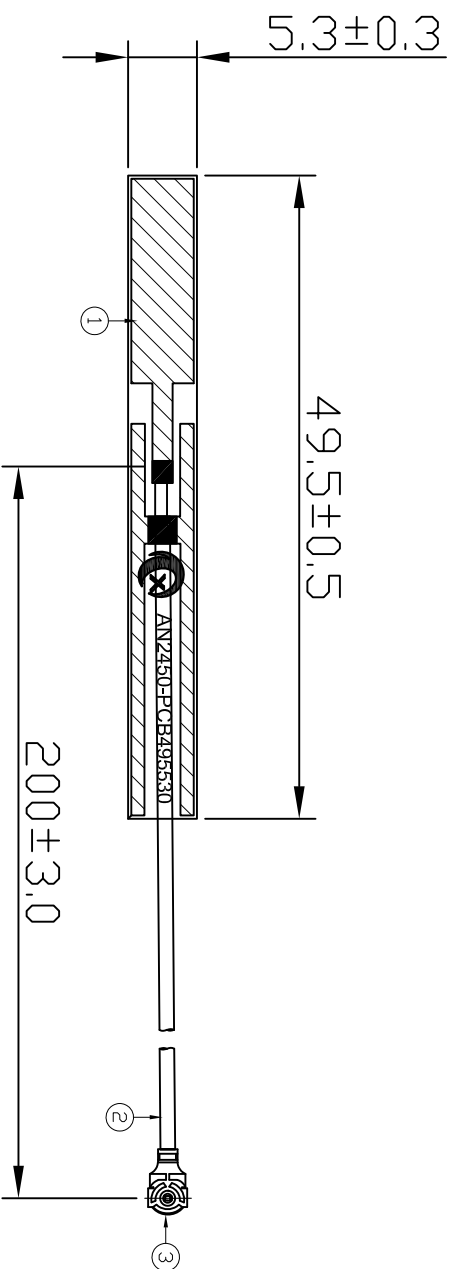
5850MHz



5. Mechanical Drawing See attached files


HF	<input type="checkbox"/>
RoHS2.0	<input checked="" type="checkbox"/>
REACH	<input type="checkbox"/>
CONFIDENTIAL	

 焊接區 (OSP)
 布線區



Note:

1. Mark * is important dimension; "Cpk" identify for process control (Cpk \geq 1.33).
2. Tolerance: Unmarked tolerance refer to the standard tolerance please.
3. Pay attention to the direction of the connector.


Tengxiang Electronics Co., Ltd.

TITLE: 2400-2500 / 5150-5850 MHz

PART NO.: AN2450-PCB25BX CUSTOMER P/N: / TP25TP310 LFP0119030402A-RIA

APP BY	CHK BY	RF BY	DES BY	UNITS:	SCALE:	REVISION:	Tolerance
			LRK	mm	1/1	A	X.X ±0.5 X.XX ±0.2 X ±1

No.	Part Number	Name	Material	Finish	Qty
3	CR-113-ZP-A	IPEX	CU	gold-plated	1
2	CB-113BS	Coaxial Cable	OD1.13 mm	Black	1
1	AN2450-PCB495530	PCB	FR4	green	1

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			