



Tengxiang Technology.Inc

Product Number: AN2400-PCB080GX

Product Name: 2.4G Antenna

Specification For Approval

Customer: _____ MS

Customer P/N: _____

Tengxiang P/N: AN2400-PCB080GX

Description : 2.4G ANTENNA

FOR RG1.13 CABLE 80mm+ MINI CONN

Tengxiang Checked By:	Customer Approved By:
工程: HC 射频: 韦佳 	



Tengxiang Technology.Inc

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<http://www.tenxiang.cn>

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Product Name: 2.4GHz Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
V.S.W.R.	≤ 2.0
Antenna Gain	2dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Material of Plastic	Cu
Cable Type	OD1.13
Connector Type	MINI CONN
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	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna	Set DUT on Antenna Chamber; make individual	Directive DUT specification



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	Gain	calibration to test	
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: 48 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: 96 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 2002/95/EC
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

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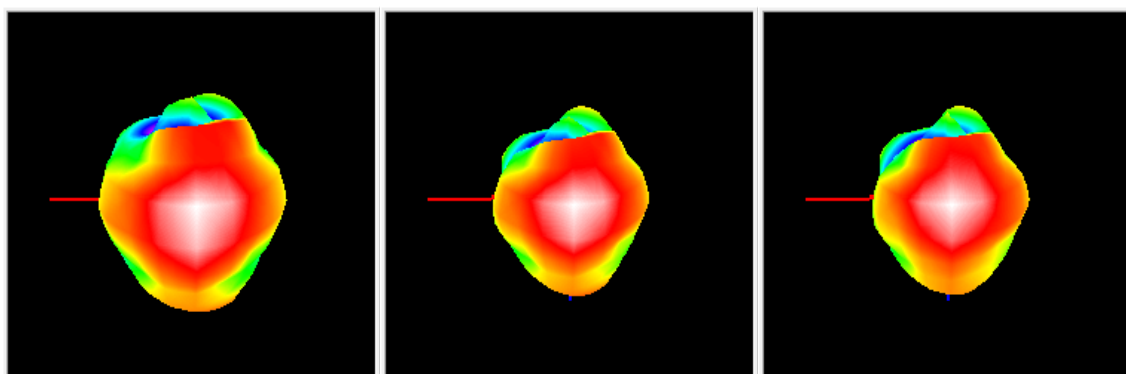
Product Name: 2.4GHz Antenna

3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	2400.0	2450.0	2500.0
Efficiency (%)	67.2	79	82.9
Gain (dBi)	3.12	2.12	1.98



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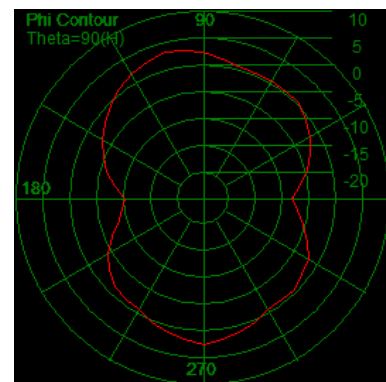
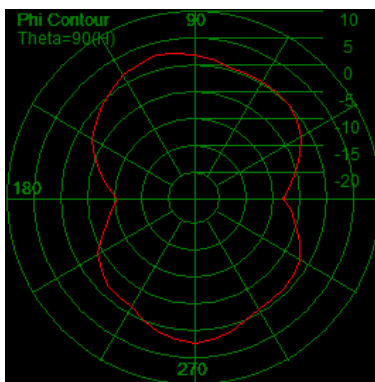
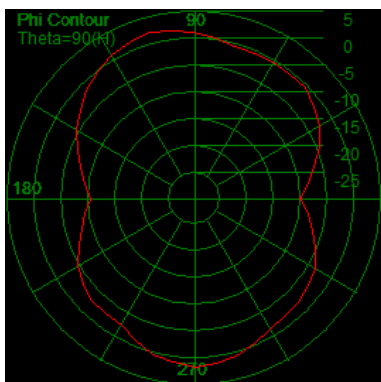
Product Name: 2.4GHz Antenna

2400MHz

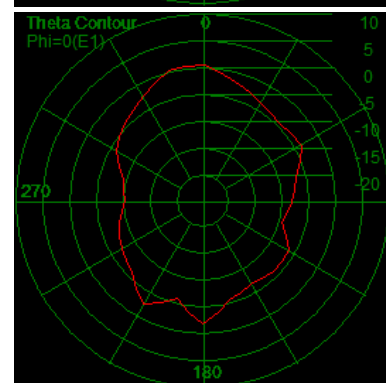
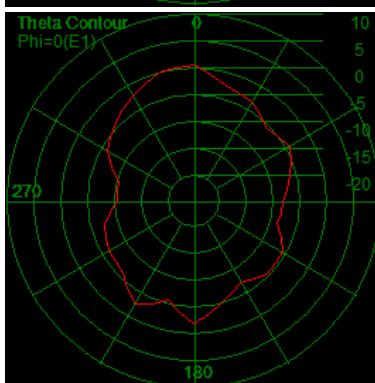
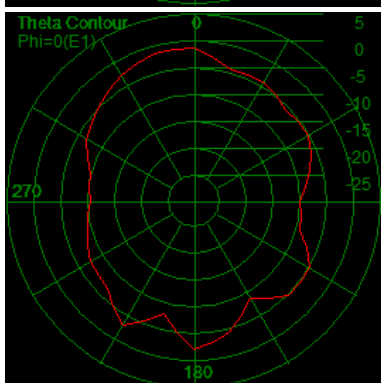
2450MHz

2500MHz

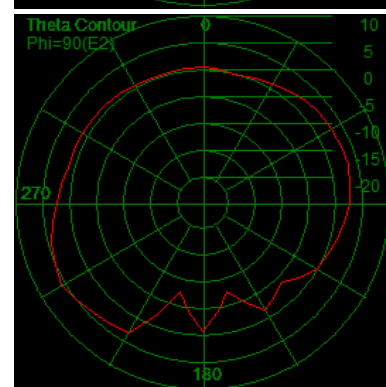
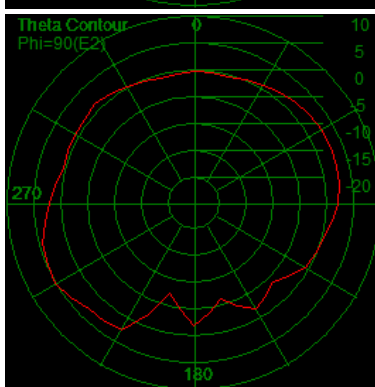
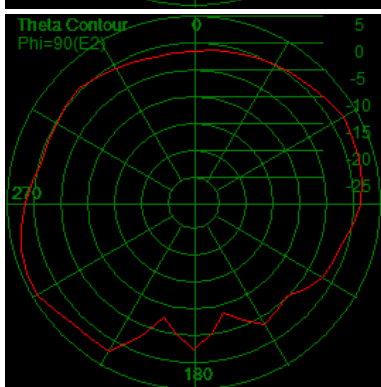
XY_Plane



XZ_Plane



YZ_Plane

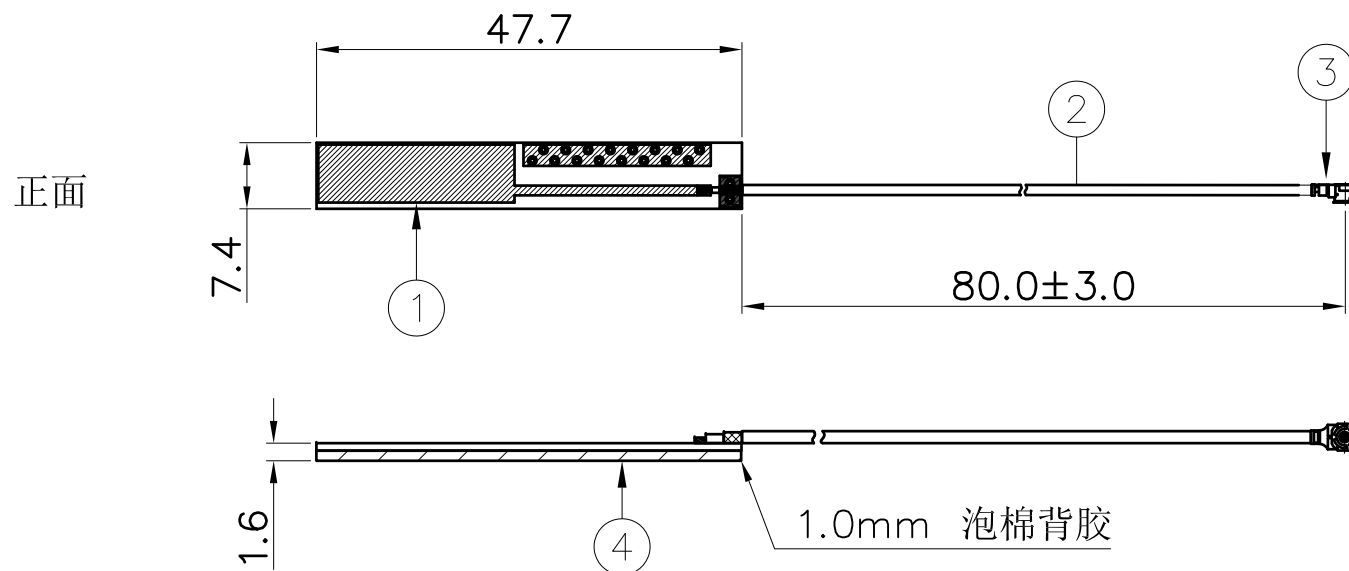


5. Mechanical Drawing (See attached files)

RoHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER



Note:

1. Dimension: Take * is the important dimension
2. Tolerance: Unmarked tolerance refer to the standard tolerance please

4	AN2400-PCB150GX-BJ	EVA	EVA	Black	1
3	CR-113	I-PEX	Cu		1
2	CB-113GS	Cable		Gray	1
1	AN2400-PCB0674477	PCB	FR4	Black	1
No.	Part Number	Descrlption	Material	Finished	Q'ty



Tengxiang Technology Inc.

TITLE: 2.4GHz Antenna					
PART NO.: AN2400-PCB080GX			DWG NAME:		
APP BY	CHK BY	RF BY	DES BY		Tolerance
			HC	UNITS: mm	X.X ±0.3
			2019.02.18	SCALE: 1/1	X.XX ±0.1
				REVISION:A	X° ±1°

PACKING CRITERION

Date: 2019.02.19

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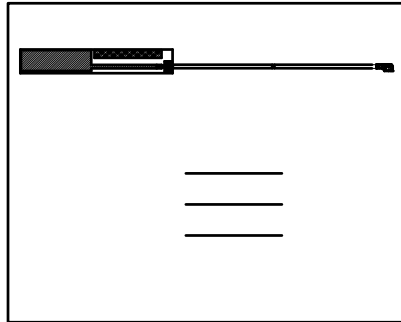
Part Number : AN2400-PCB080GX

Revision : A

Name: 2.4GHz Antenna

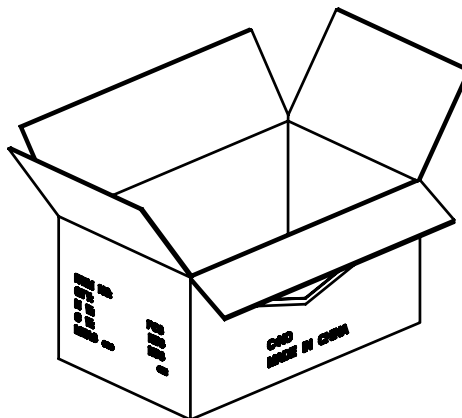
Customer : ALL

1 . Enter PE bag。



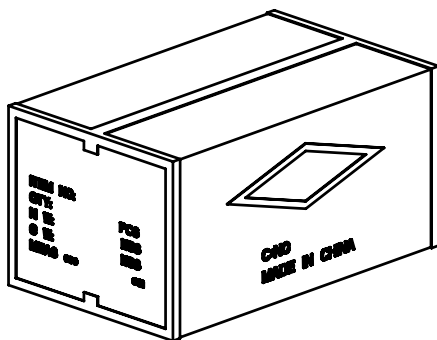
100pcs/ PE bag

2.PACKING 。

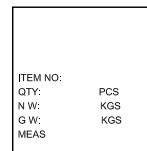


8000pcs/Carton

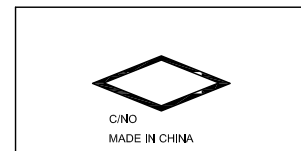
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : TOM

DESIGNED BY : HC