



Tengxiang Technology.Inc

Product Number: 122-24082-001

Product Name: Antenna


Specification For Approval

Customer: _____

Customer P/N: 122-24082-001

Tengxiang P/N: 122-24082-001

Description : 2.4G ANTENNA RP SMA PLUG (镀金)

Tengxiang Checked By:	Customer Approved By:
<p>工程: HC 射频: 韦佳</p> 	



Tengxiang Technology.Inc

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


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

<http://www.tenxiang.cn>

Product Number: 122-24082-001

Product Name: 2.4GHz Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
S.W.R.	<= 2.0
Antenna Gain	2.0dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	Body1: TPE Body2: ABS Body3: POM
Cable Type	RG-178
Connector Type	RP SMA PLUG 内牙镀金
Connector Pull Test	>= 3Kg
Connector Torque Test	300 ~ 1000 g.cm
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

2. Characteristics and Reliability Test



Tengxiang Technology.Inc

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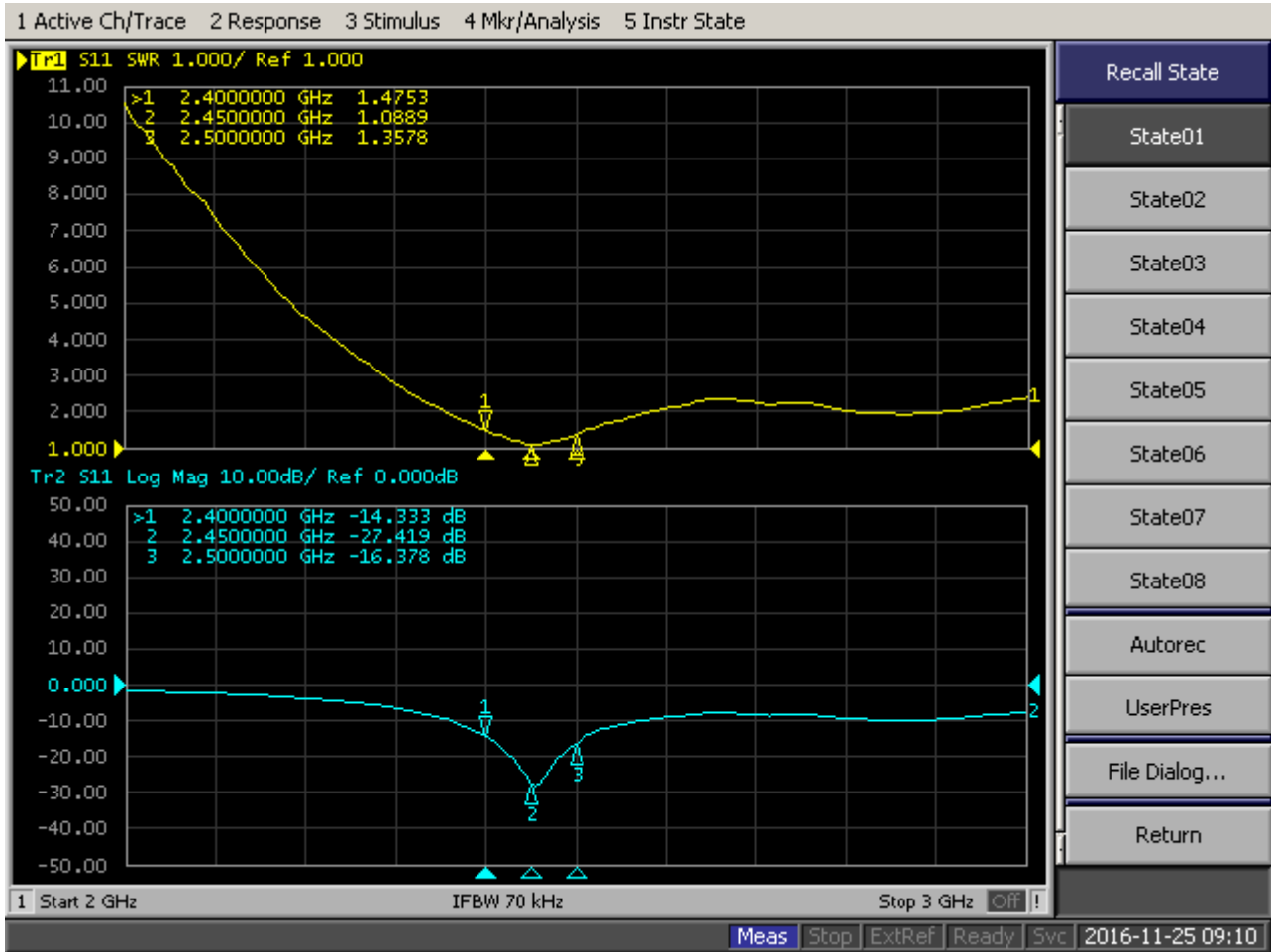
Product Name: 2.4GHz Antenna

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
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: 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 2015/863/EU

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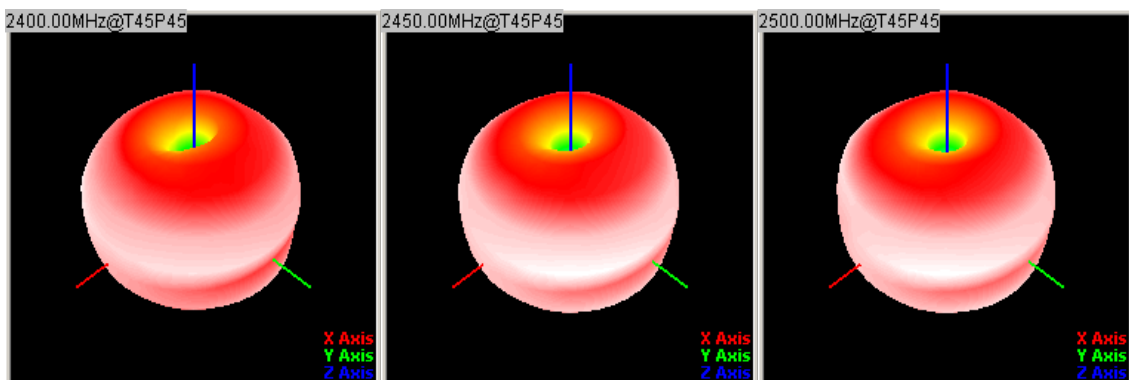
Product Name: 2.4GHz Antenna

3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	2400.0	2450.0	2500.0
Efficiency (%)	84.00	86.10	88.00
Gain (dBi)	1.90	2.00	2.15

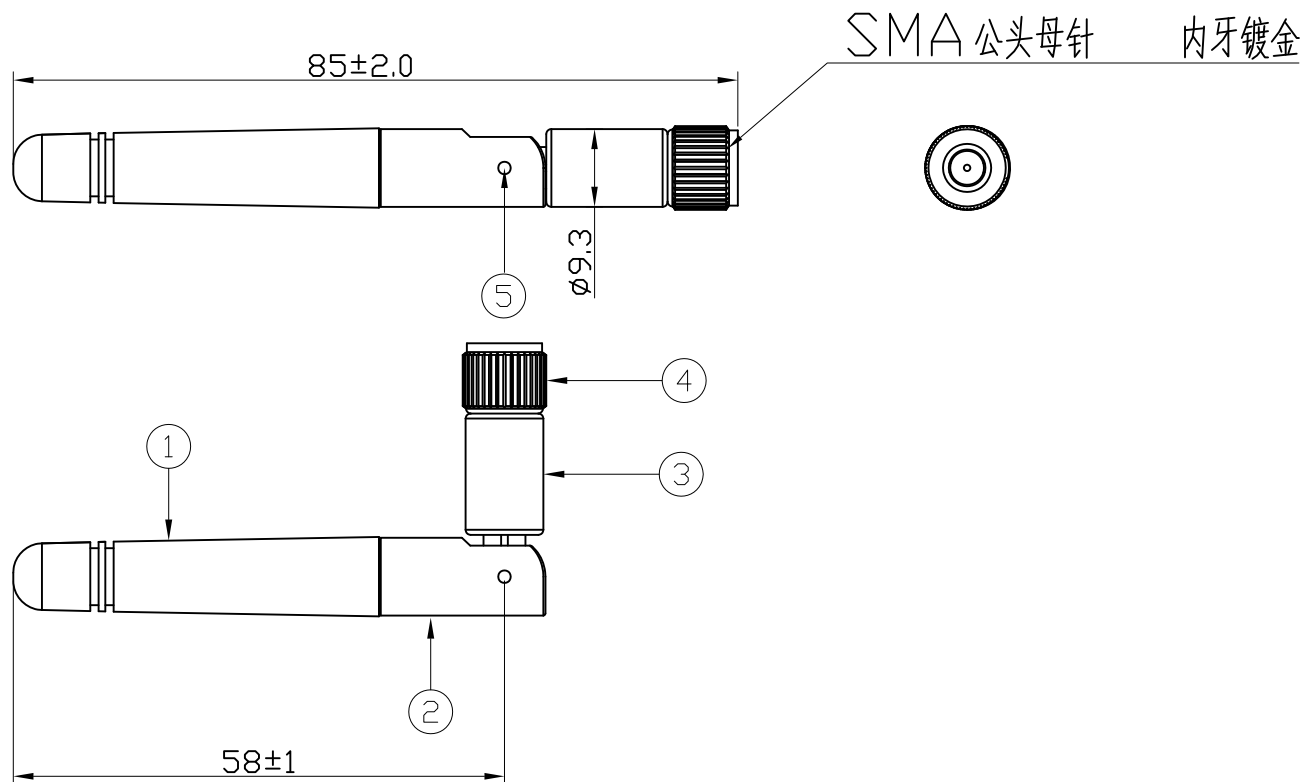


5. Mechanical Drawing See attached files

RoHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



Note:

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

5	AN01-1215-P-1	Hinge Pin	POM	Black	2
4	SMA508-G8MRAN02-B	RP SMA Plug		Black ,内牙镀金	1
3	AN0202-01B	Body3	PC+PBT	Black	1
2	AN58-02B	Body2	ABS	Black	1
1	ANT06-03B	Body1	TPEE	Black	1
No.	Part Number	Name	Material	Finish	Q'ty



Tengxiang Technology Inc.

TITLE: 2.4GHz 2dBi Antenna					
PART NO.: 122-24082-001			DWG NAME:		
APP BY	CHK BY	RF BY	DES BY	 UNITS: mm SCALE: 1/1 REVISION: A	Tolerance
			HC		X.X ±0.3
			2020.12.12		X.XX ±0.1
					X° ±1

產品包裝規範

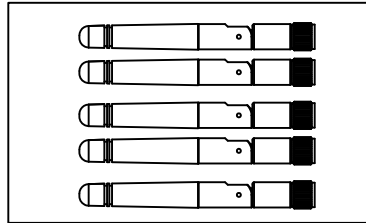
PACKING CRITERION

Date: 2020.10.31

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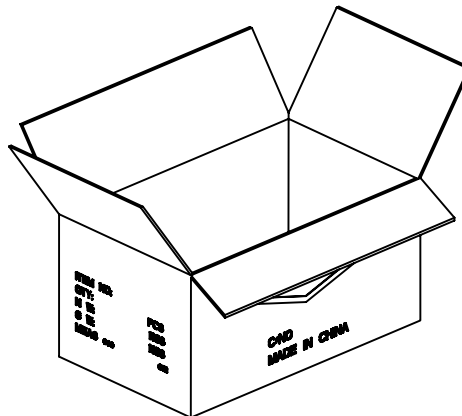
Part Number : 122-24082-001	Revision : A
Name: 2.4GHz 2dBi Antenna	Customer : ALL

1 . Enter PE bag.



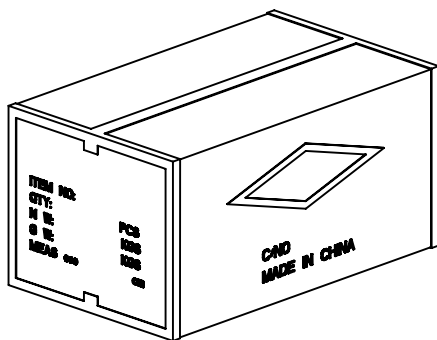
20pcs/ PE bag

2.PACKING ◦

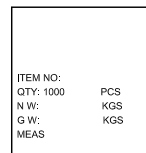


1000pcs/Carton

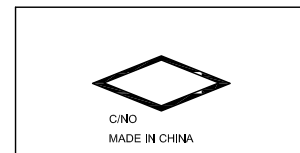
3. SEALING ◦



SIDE



FRONT



APPROVED BY : YTX

CHECKED BY : PEAK

DESIGNED BY : HC