



Tengxiang Technology.Inc

Product Number: AN2400-78F03BX-W

Product Name: Antenna

Specification For Approval

Customer: 瑞博斯

Customer P/N:

Tengxiang P/N: AN2400-78F03BX-W

Description : 2.4G ANTENNA With 1.37Cable L=370mm

Tengxiang Checked By:	Customer Approved By:
工程: 邓文兵 射频: 韦佳 	



腾祥电子
TENGXIANG ELECTRONIC

Tengxiang Technology.Inc

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

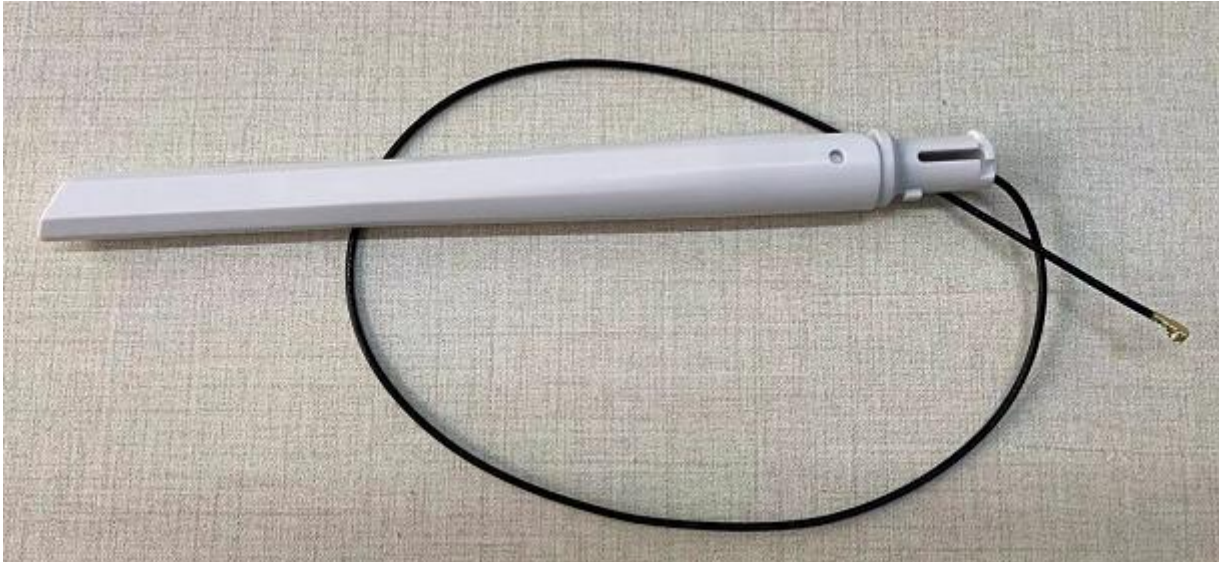
TEL:86-769-81873082 FAX:86-769-82663788

<http://www.tenxiang.cn>

Product Number: AN2400-78F03BX-W

Product Name: 2.4GHz Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
V.S.W.R.	≤ 2.0
Antenna Gain	2.02 dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	ABS
Cable Type	1.37
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 Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification

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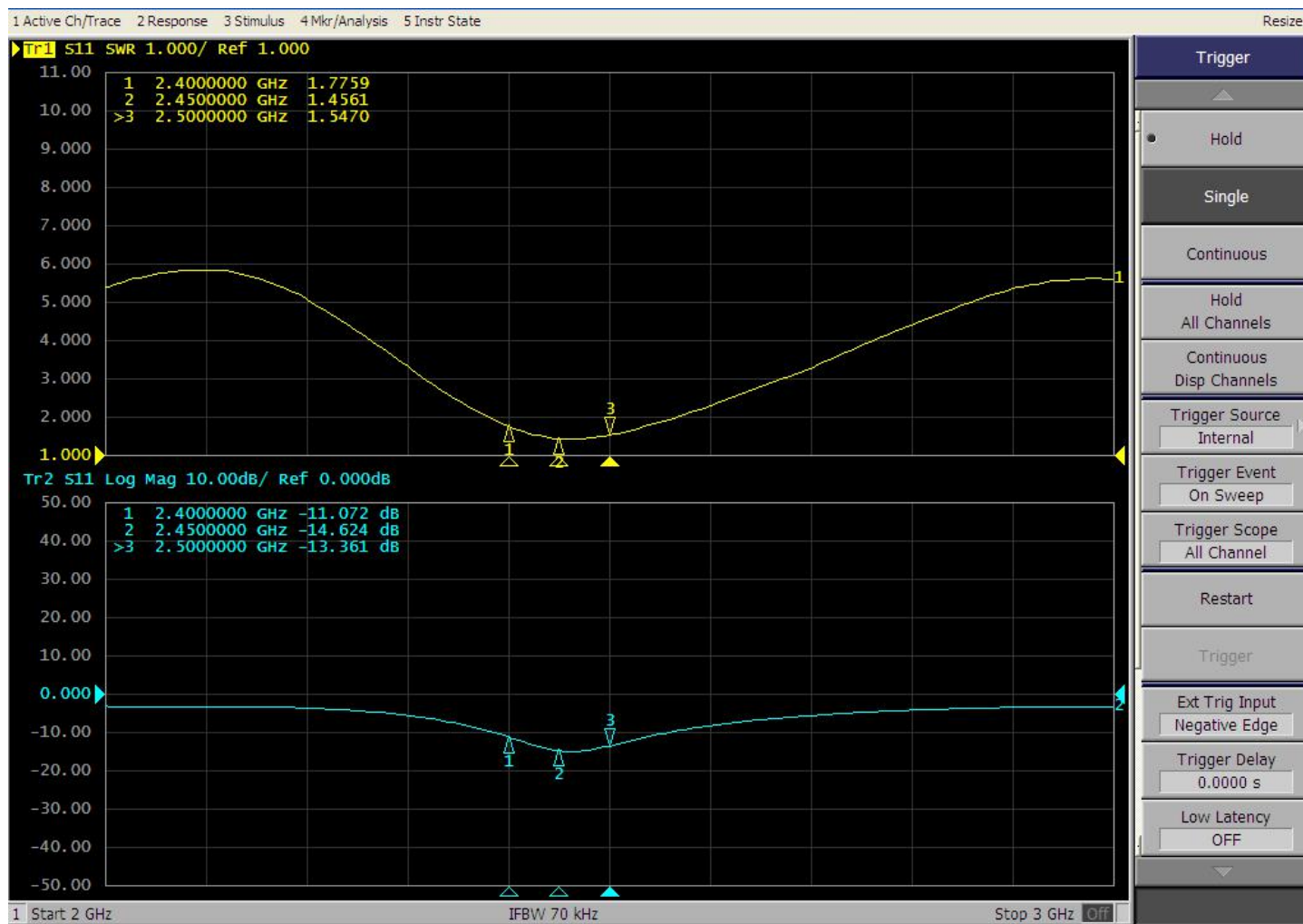
Product Name: 2.4GHz Antenna

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: 80°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)

3. Antenna - S Parameter Test Data

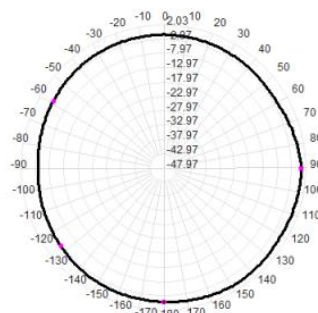
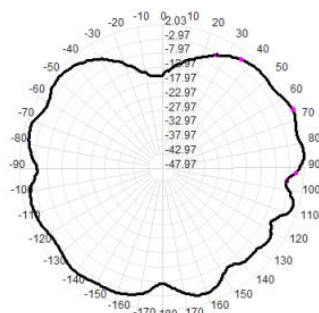
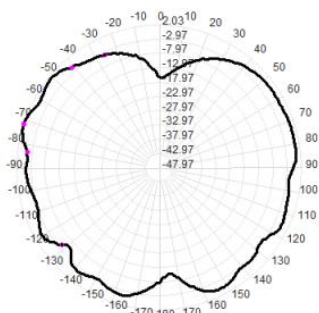
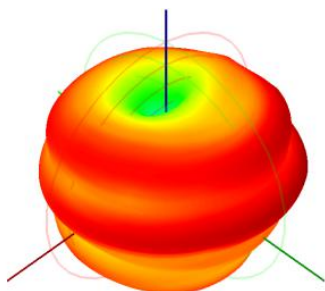
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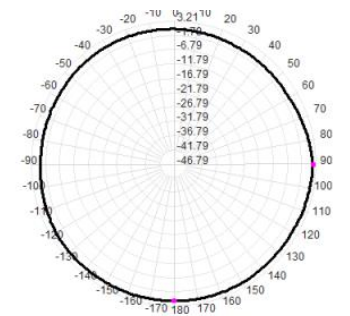
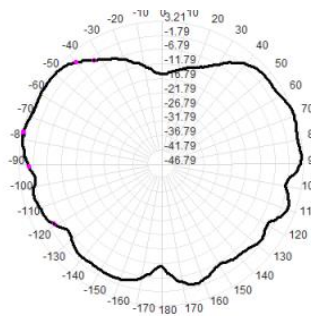
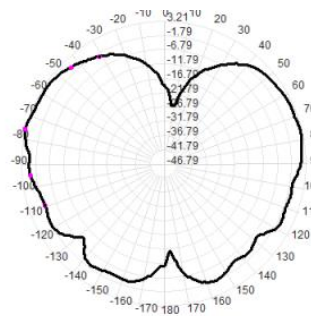
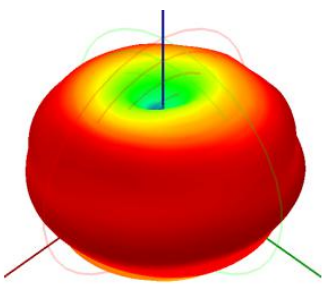
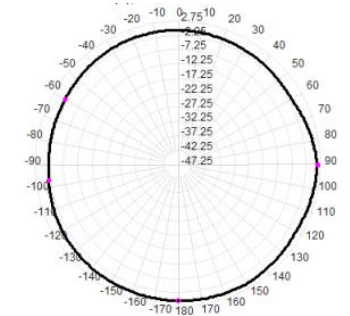
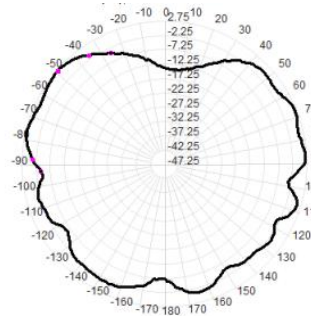
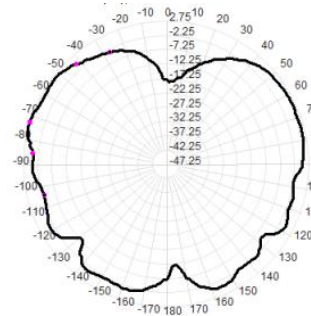
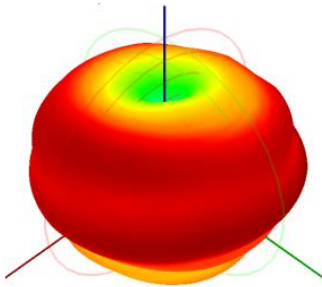
4. Antenna - Radiation Pattern Test Data

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)	2.02	1.88	1.78	1.69	1.49	1.52	1.42	1.53	1.53	1.73	1.92
Efficiency (%)	56.54	55.09	54.01	52.78	51.49	52.83	52.46	53.67	53.23	53.96	54.96



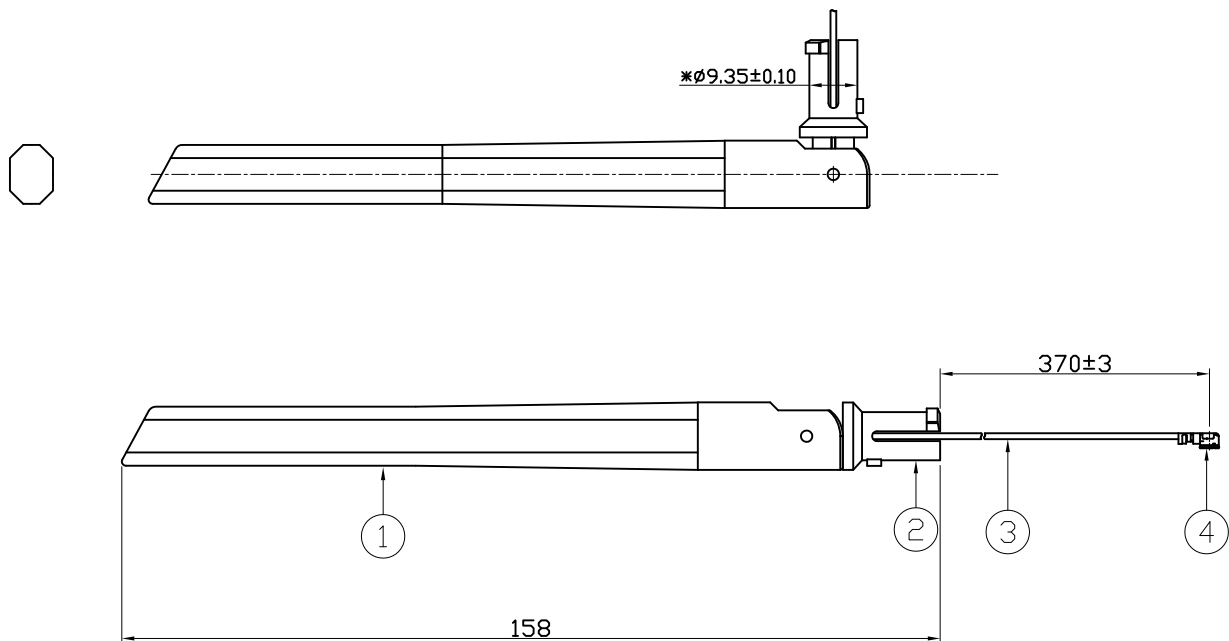
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Product Name: 2.4GHz Antenna



5. Mechanical Drawing (See attached files)

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



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.

4	CR-137-ZP	I-PEX	Cu	Au Plated	1
3	CB-137BS	Cable		Black	1
2	BASE-AN78-02W6	BASE	ABS	White	1
1	BODY-AN78-01W6	BODY	ABS	White	1
No.	Part Number	Name	Material	Finish	Q'ty

 Tengxiang Electronics Co., Ltd.						
TITLE: Antenna						
PART NO.: AN2400-78F03BX-W				CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY			Tolerance
YCX	HC	WJ	DWB	UNITS: mm		X.X ±0.5
2021.01.23	2021.01.23	2021.01.23	2021.01.23	SCALE: 1/1		X.XX ±0.2
				REVISION: A		X° ±1

產品包裝規範

PACKING CRITERION

Date: 2021.01.23

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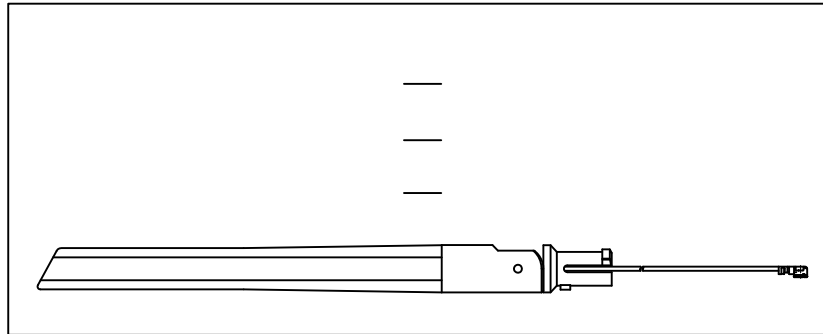
Part Number : AN2400-78F03BX-W

Revision : A

Name: Antenna

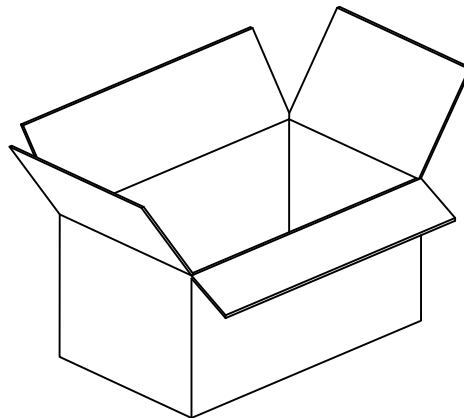
Customer : ALL

1 . Enter PE bag。



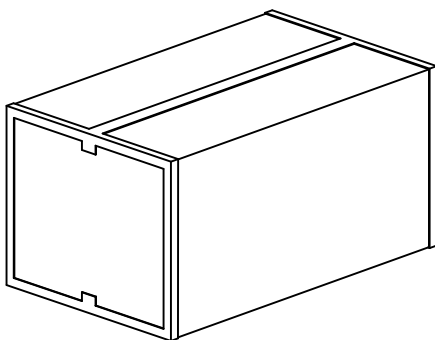
20pcs/ PE bag

2.PACKING 。

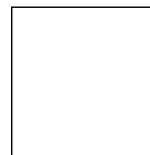


1000pcs/Carton

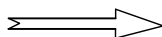
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWB