



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2400-TUB34BX

Product Name: Antenna

Specification For Approval

Date: 2022.11.25

Version: 1.0

客户名称

Customer:

飞思通

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN2400-TUB34BX

规格描述

Description :

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	韦纯佳	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	梁凤珍	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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<http://www.tenxiang.cn>

Product Number: AN2400-TUB34BX

Product Name: 2.4GHz Antenna

1. Specification

Sample Photo



A. Electrical Characteristics

Frequency	2400~2500 MHz
V.S.W.R	≤ 2.0
Antenna Gain	2.27dBi
Polarization	Linear
Impedance	50 Ohm

B. Material & Mechanical Characteristics

Material of Radiator	Cu
Material of Plastic	/
Cable Type	RG178U 黑色
Connector Type	Mini conn

C. Environmental

Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C



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Product Name: 2.4GHz Antenna

2. Characteristics and Reliability Test

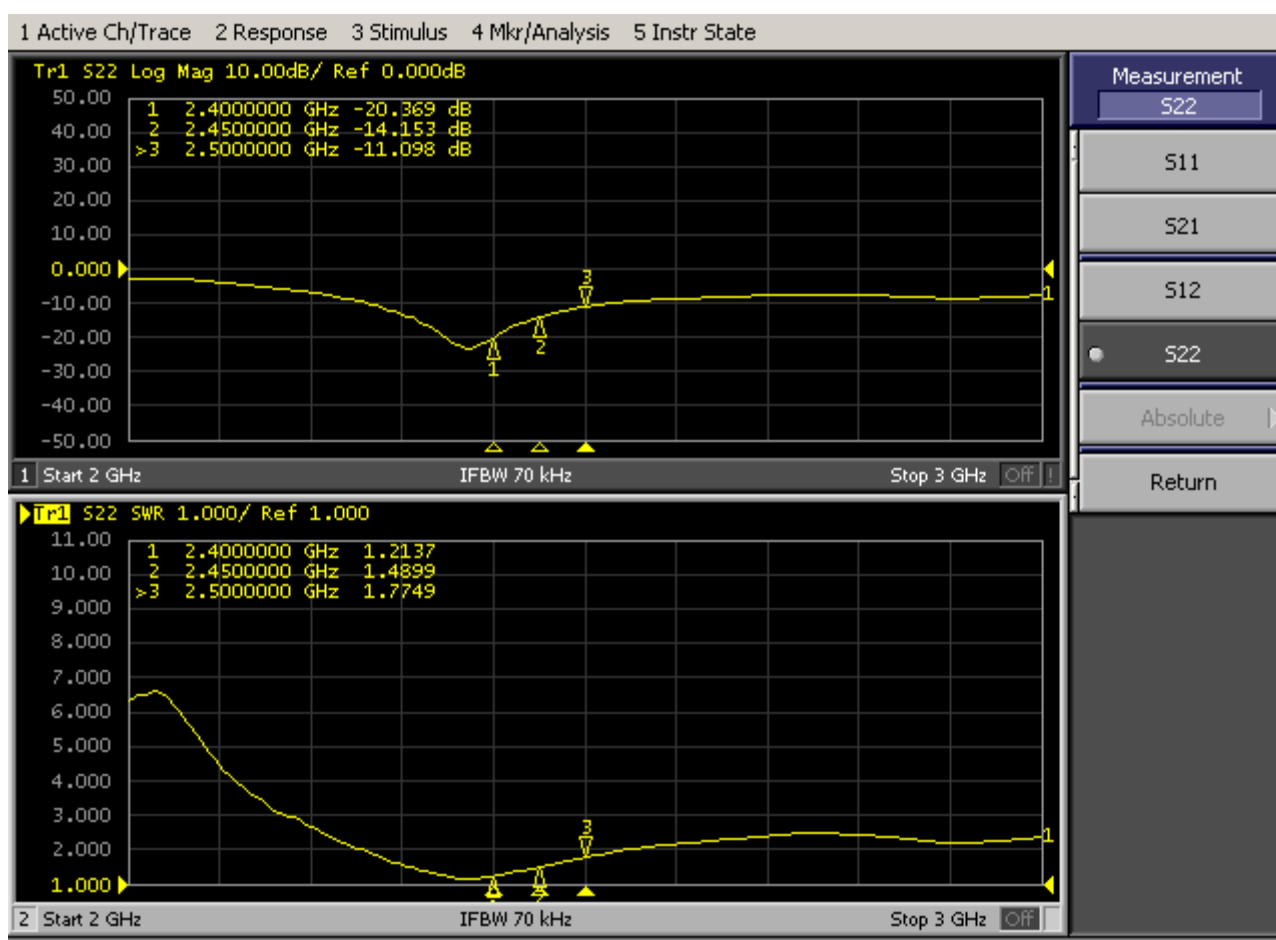
Test Items		Test Condition and Procedure	Requirements
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 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: 24 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

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			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

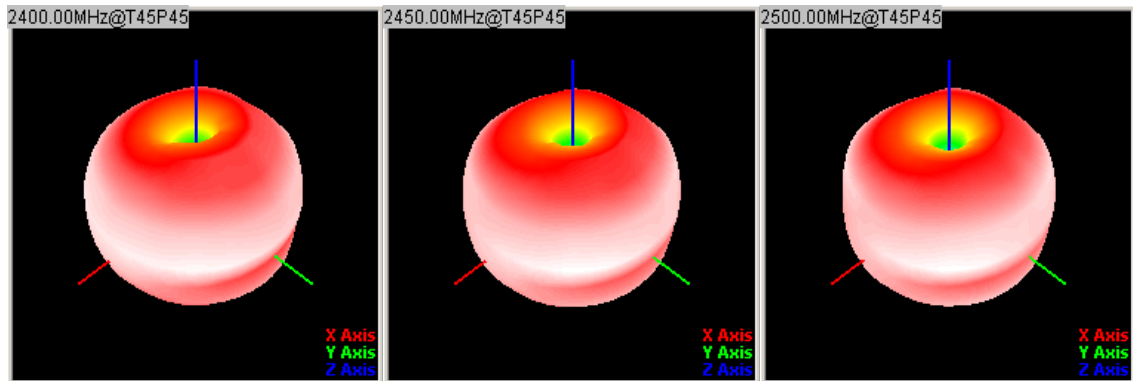


4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	2400.0	2450.0	2500.0
Efficiency (%)	78.80	80.24	80.00
Gain (dBi)	1.97	2.27	1.91

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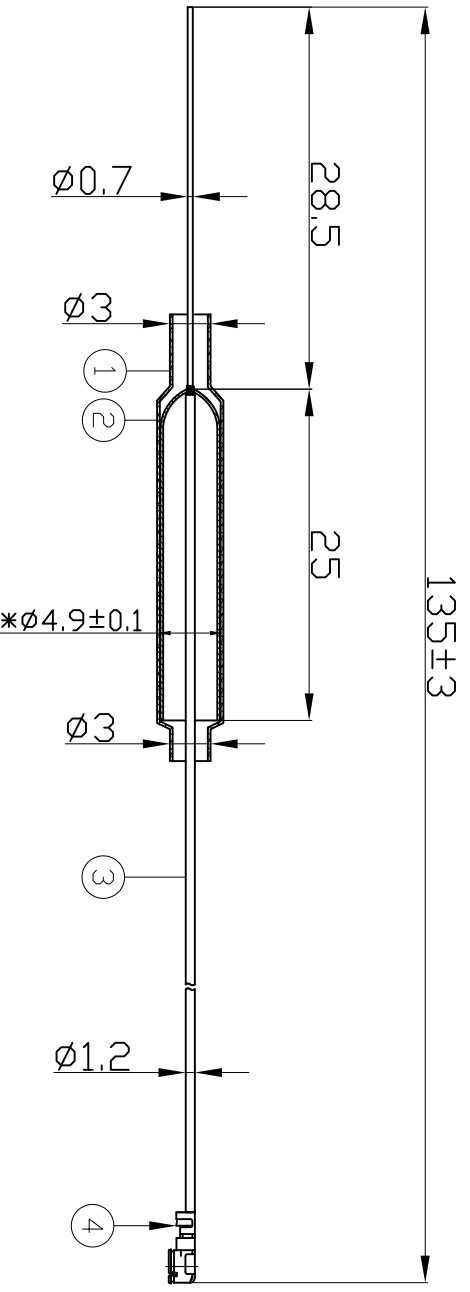
Product Name: 2.4GHz Antenna



5. Mechanical Drawing See attached files

1	2	3	4	5	6	7	8
HF	☐						
RoHS2.0	☒						
REACH	☐						
CONFIDENTIAL							

SIGN	DATE	DESCRIPTION	APPROVER
☒			
☒			
☒			



Note:

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

4	CR-113-ZP-A	Tube	Cu	Au Plated	1
3	CB-113BS	Cable		Ø1.13mm,Black	1
2	AN4424517S	Tube	Cu	Ø4.4mm*24.5mm	1
1	HSTUBE-004N	HST	EVA	BLACK	1
No.	Part Number	Description	Material	Finished	Q'ty



Tengxiang Technology Inc.

TITLE: 2.4GHz Antenna						DWG NAME:		Tolerance	
PART NO.: AN2400-TUB34BX								X.X ±0.3	
APP BY	CHK BY	RF BY	DES BY			UNITS: mm		X.XX ±0.1	
YCX	HC	WJ	DWB			SCALE: 1/1		X° ±1°	
2020.10.30 2020.10.30 2020.10.30 2022.11.25						REVISION:A			

產品包裝規範

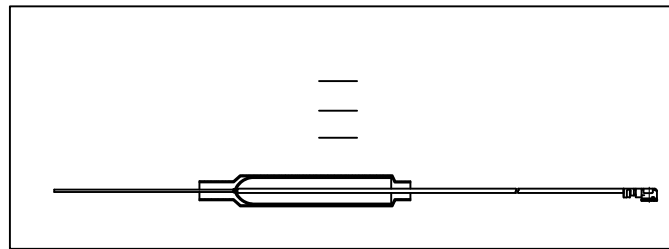
PACKING CRITERION

Date: 2022.11.25

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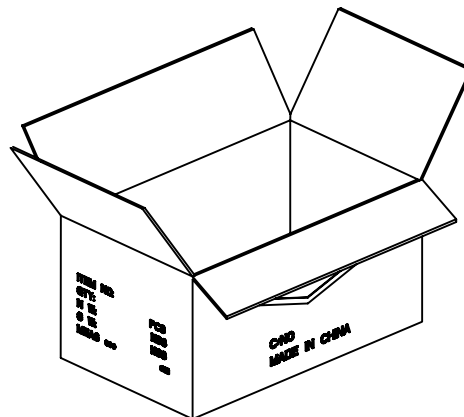
Part Number : AN2400-TUB34BX	Revision : A
Name: 2.4GHz Antenna	Customer : ALL

1 . Enter PE bag。



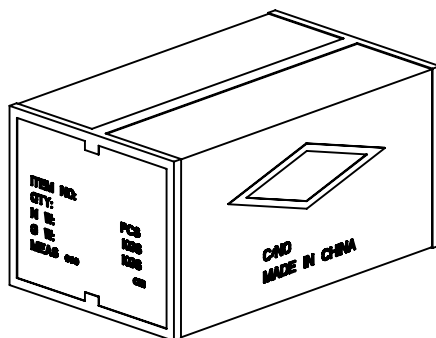
100pcs/ PE bag

2.PACKING。

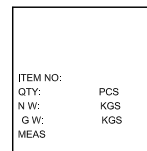


6000pcs/Carton

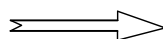
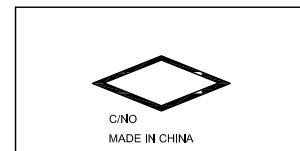
3. SEALING。



SIDE



FRONT



APPROVED BY: YCX

CHECKED BY: TOM

DESIGNED BY: CJ