



Tengxiang Technology.Inc

Product Number: AN2450-FPC370130-BZ

Product Name: Antenna

Specification For Approval

Customer: 深圳中盈动智能技术有限公司

Customer P/N:

Tengxiang P/N: AN2450-FPC370130-BZ

Description : ANTENNA

正本

杨俊杰

外来文件

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



Tengxiang Technology.Inc

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<http://www.tenxiang.cn>

Product Number: AN2450-FPC370130-BZ

Product Name: 2.4GHz Antenna

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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
Cable Type	/
Connector Type	/
Connector Pull Test	/

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	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification

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C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	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	GB / T 2423 . 17- 93 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	GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	GB / T 2423 . 22 - 87 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.)	GB /T 2423 . 2 - 89 Temp: 80°C; Time: 24 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

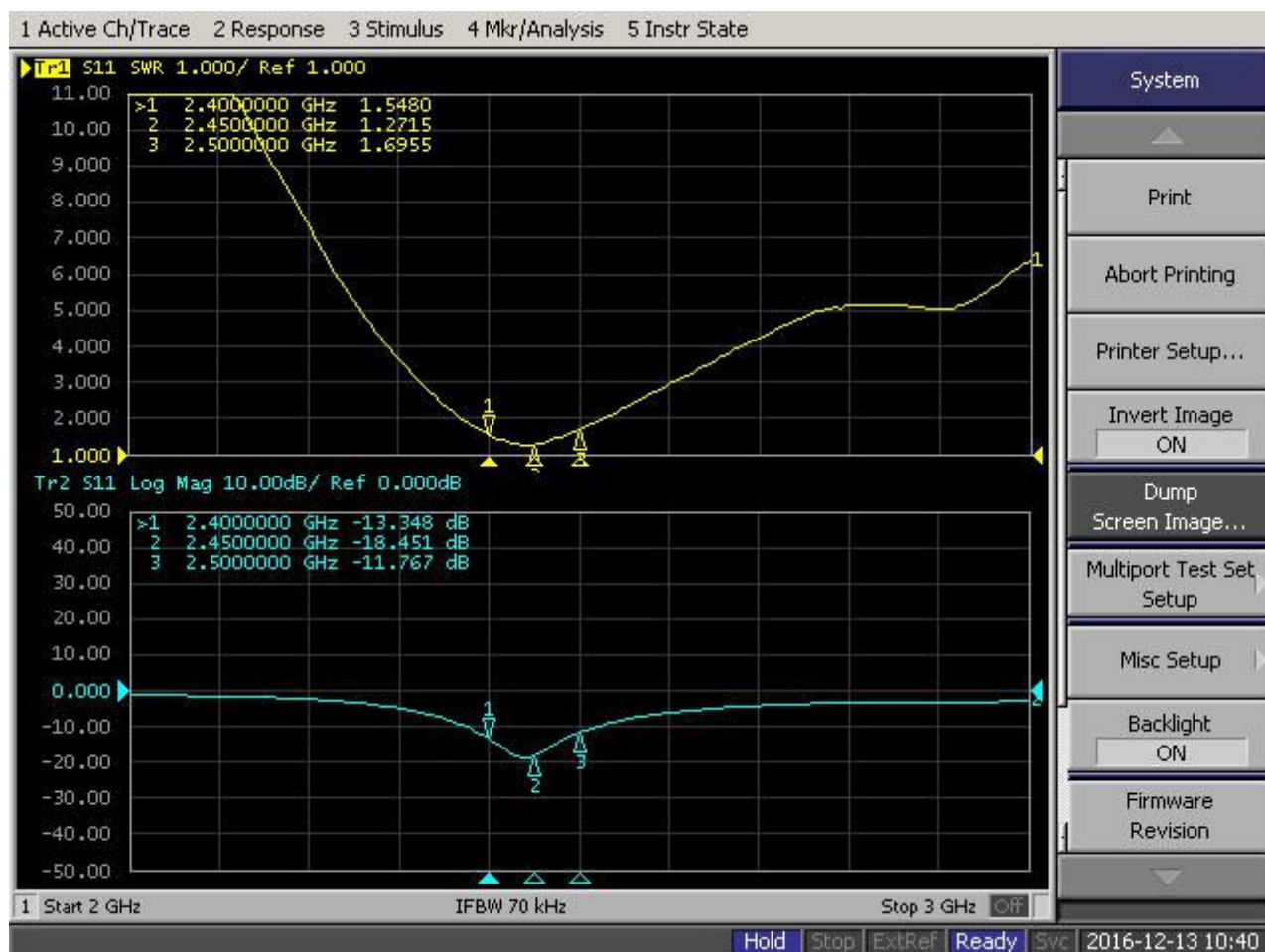
Product Number: AN2450-FPC370130-BZ

Product Name: 2.4GHz Antenna

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3. Antenna - S Parameter Test Data



Product Number: AN2450-FPC370130-BZ

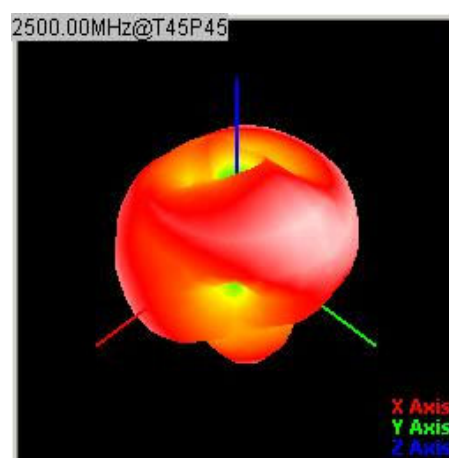
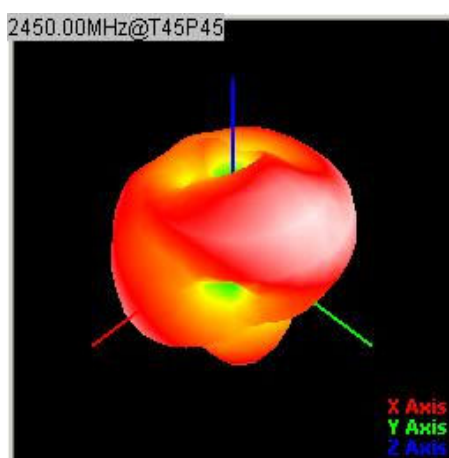
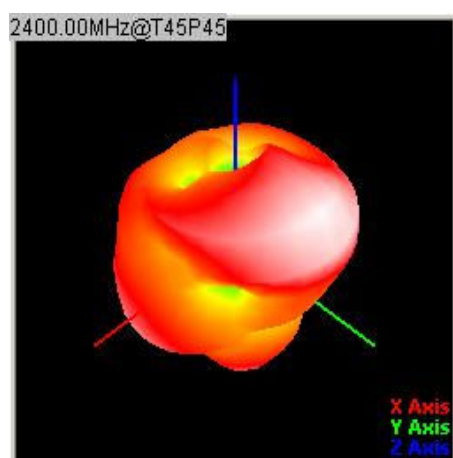
Product Name: 2.4GHz Antenna

4.Antenna - Radiation Pattern Test Data

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Frequency (MHz)	2400.0	2450.0	2500.0
Efficiency (%)	55.60	48.00	48.90
Gain (dBi)	2.14	1.57	1.54



5.Mechanical Drawing See attached files

1		2		3		4		5		6		7		8	
HF		☐								SIGN		DATE		APPROVER	
RoHS		☒								A					
REACH		☐								A					
CONFIDENTIAL										A					
E															
D															
C															
B															
A															
Tengxiang Electronics Co., Ltd.															
TITLE: FPC															
PART NO.: AN2450-FPC370130-BZ CUSTOMER P/N: /															
APP BY		CHK BY		RF BY		DES BY				Tolerance					
YCX		HC		WJ		DWB				UNITS: mm		X.X ±0.1			
2020.06.10		2020.06.10		2020.06.10		2020.06.10				SCALE: 1/1		X.XX ±0.05			
REVISION: A															
8															

焊接區 (OSP)

布線區

100±2

1.5±0.2

1.5±0.2

1±0.2

37.00

AN2450-FPC370130

0.02mm

0.018mm

0.013mm

0.05mm

油墨層

ED銅

壓敏膠

PI

1.5±0.2

1.5±0.2

1±0.2

1.5±0.2

1.5±0.2

1±0.2

1

3.00

1.30

0.15

0.15

M0x(不包括离型纸厚度)

离型纸刀口

(反面)

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备注:

1.材质: FPC

2.颜色/表面处理: OSP; 正面过黑油;白色印字

3.尺寸: 带* 为重点尺寸;带Cpk尺寸需制程能力管控 (≥1.33)

4.公差: 未标注公差请参照标准公差.

產品包裝規範

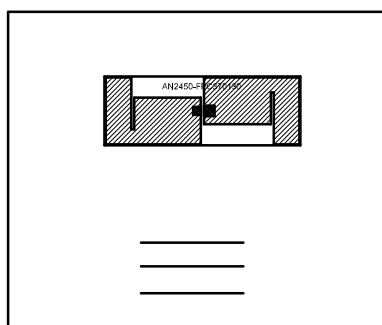
PACKING CRITERION

Date: 2020.06.10

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Part Number : AN2450-FPC370130-BZ	Revision : A
Name: Antenna	Customer : ALL

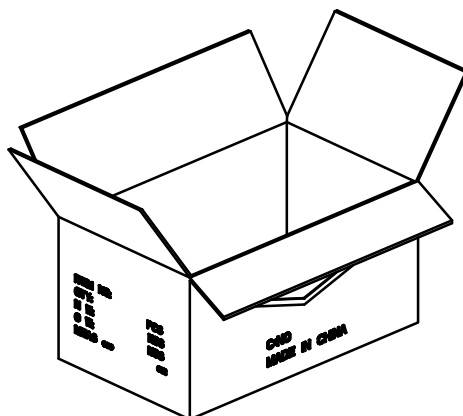
1 . Enter PE bag.



100pcs/ PE bag

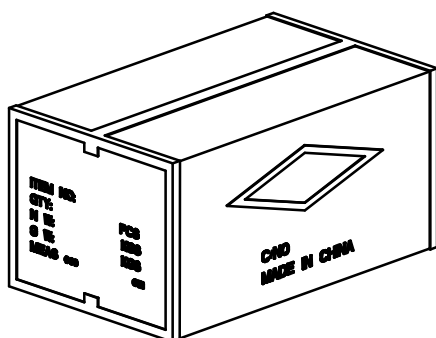
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2.PACKING .

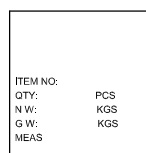


8000pcs/Carton

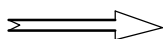
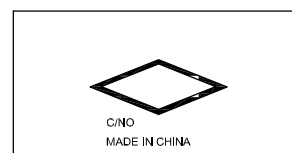
3. SEALING .



SIDE



FRONT



APPROVED BY : YCX

CHECKED BY : HC

DESIGNED BY : DWB