



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN0915-FPC19BX

Product Name: Antenna

Specification For Approval

Date: 2025.12.22

Version: 1.0

客户名称

Customer:

客户料号

Customer P/N:

腾祥料号

T X P/N:

AN0915-FPC19BX

规格描述

Description : 915MHz FPC 天线 1.13mm 黑色线 L=100mm+IPEX

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	路婷	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	陈祖喜	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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东莞市腾祥电子有限公司

Product Number:AN0915-FPC19BX

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.12.22	初版	

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Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	915MHz
S.W.R. 驻波比	参考波形
Antenna Gain 增益	1.34dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	1.13mm ,Black
Connector Type 连接器规格	I-PEX
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C

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2. Characteristics and Reliability Test

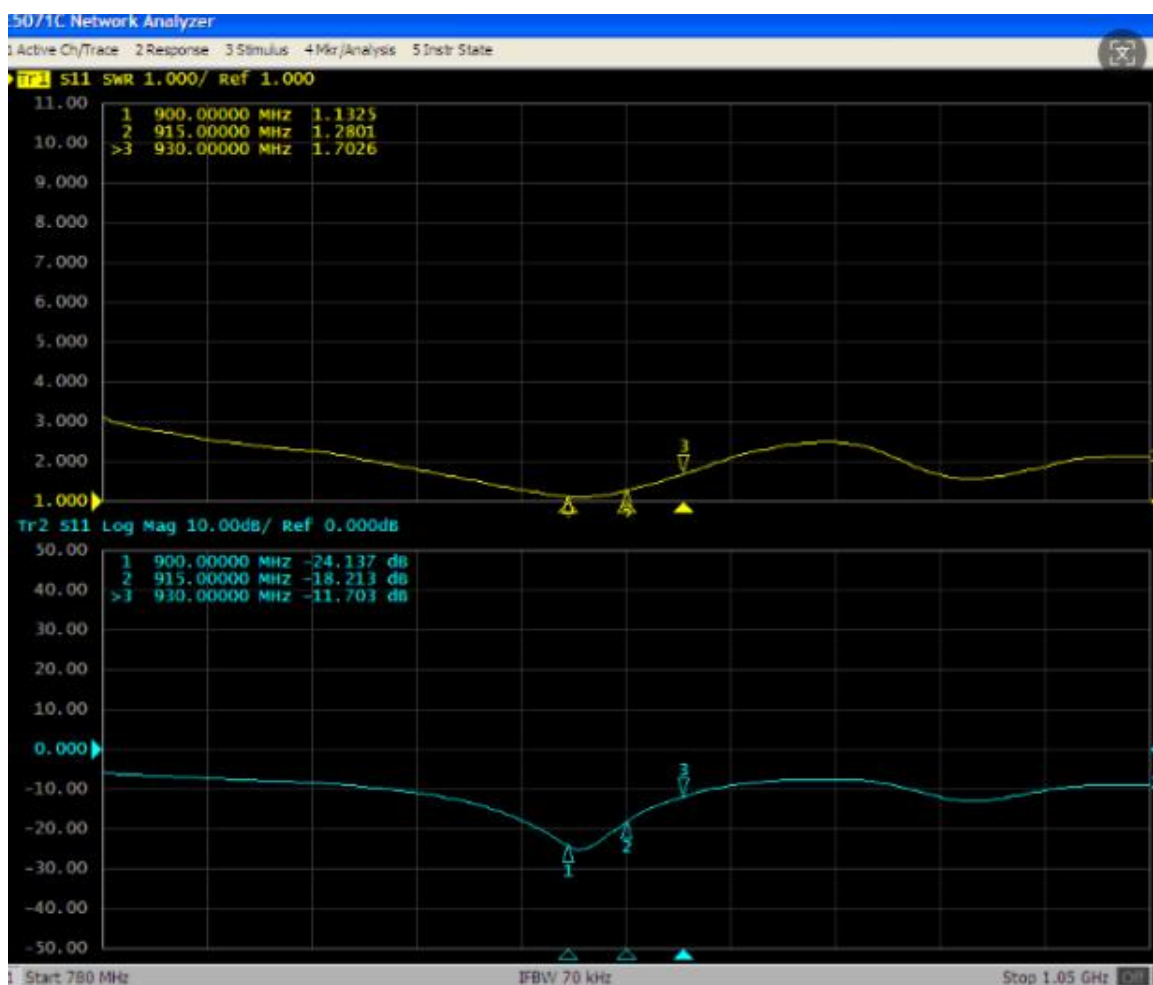
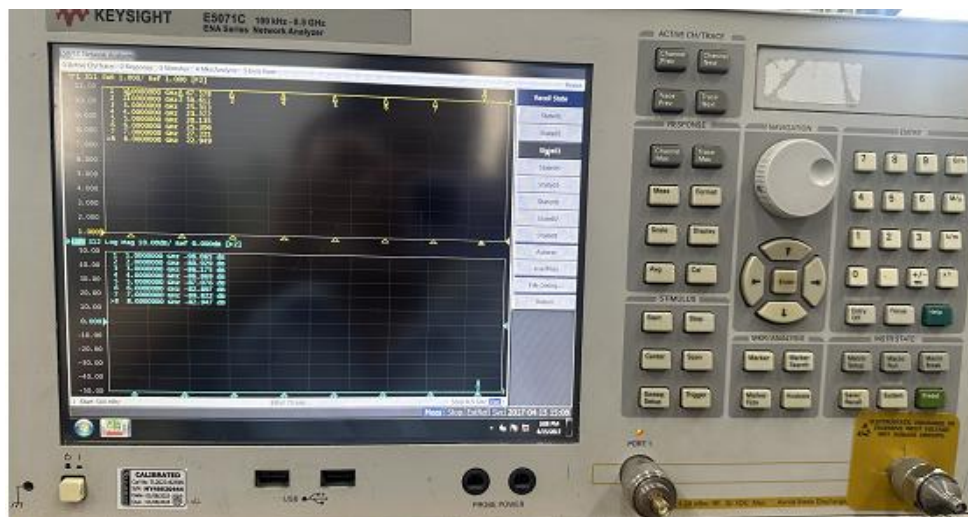
Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Insertion Loss 插入损失	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
4	Solderability 可焊性	GB / T2423.28-2005 Temp: $260 \pm 5^{\circ} \text{C}$; Duration: 5 seconds 温度 $260 \pm 5^{\circ} \text{C}$; 持续 5 秒	Tin evenly on full 上锡均匀饱满	PASS
5	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal 单独定义产品端子拉力	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	PASS
6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process. 检查尺寸, 颜色, 材料, 包装, 表面处理	Directive DUT specification 符合待测物规范	PASS
7	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2015/863/EU 符合 RoHS 2015/863/EU 标准	PASS

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3. Antenna - S Parameter Test Data

测试仪器: VSWR 是使用安捷伦 E5071C 连接到治具来测试, 状态为自由空间。



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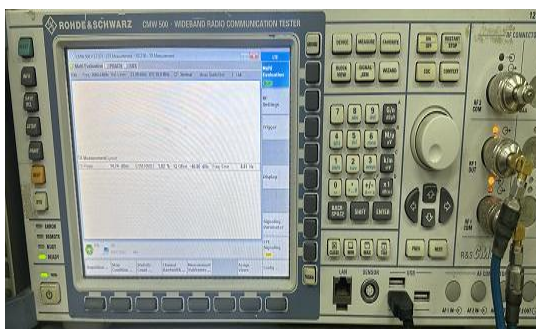
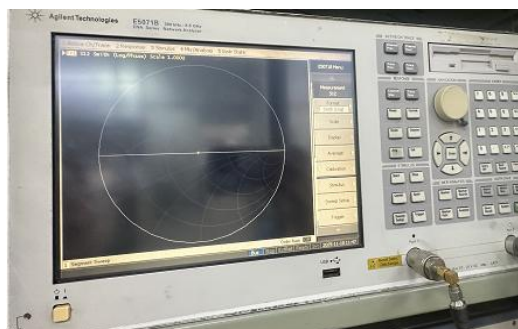
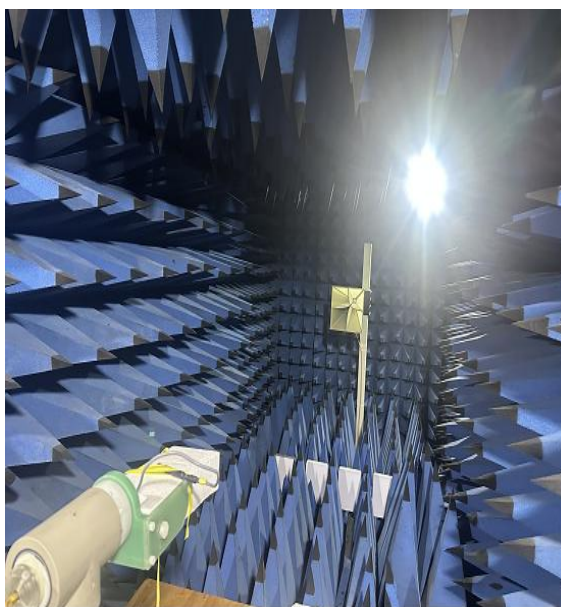
Product Name: Antenna

4. Test environment and equipment

暗室规格: 6m*6m*6m/7m*3m*3m

LTE-TDD/FDD-SCDMA 测试设备: ROHDE&SCHWARZ CMW500

无源效率测试设备:Agilent Technologies E5071B



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5. Antenna - Radiation Pattern Test Data

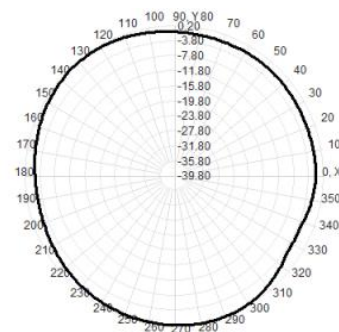
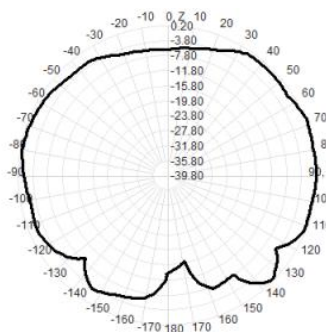
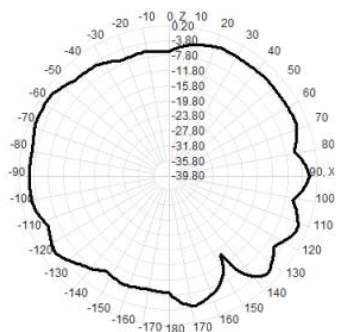
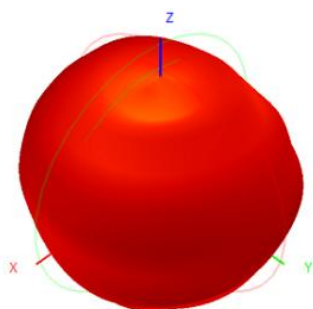
Frequency ID	1	2	3	4	5	6	7
Frequency (MHz)	900.0	905.0	910.0	915.0	920.0	925.0	930.0
Gain (dBi)	1.24	1.26	1.30	1.34	1.32	1.28	1.25
Efficiency (%)	54.36	55.63	56.44	57.06	56.32	55.45	53.57

XZ

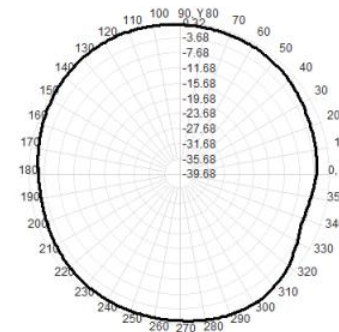
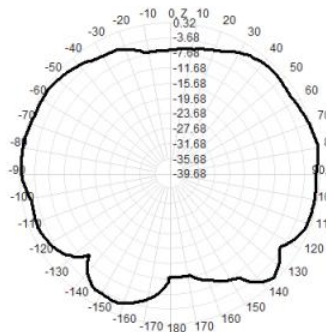
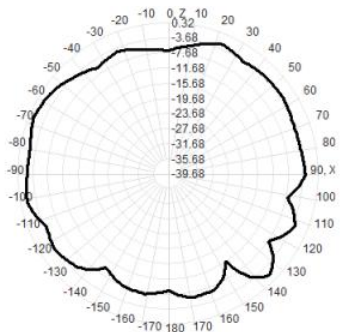
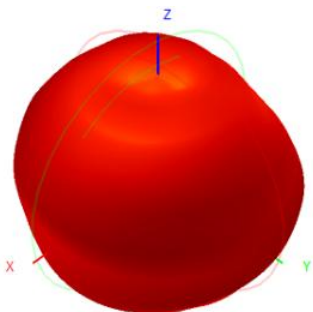
YZ

XY

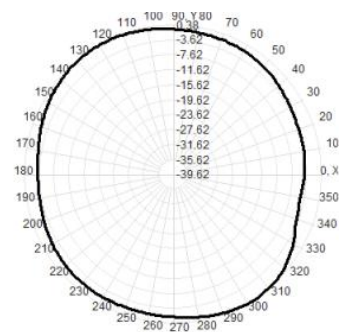
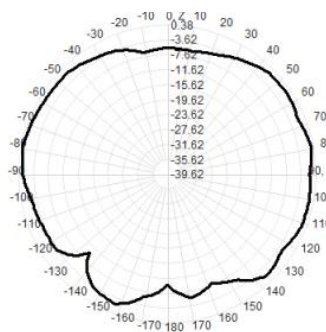
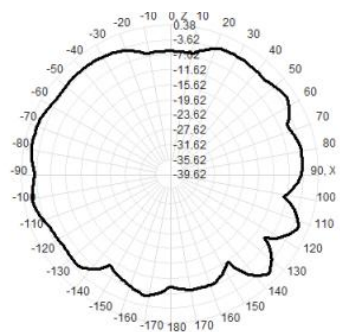
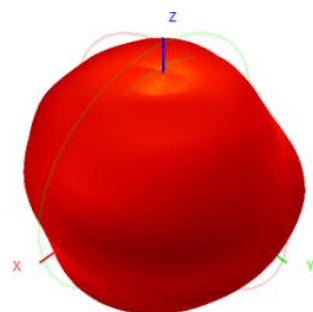
900MHz



915MHz

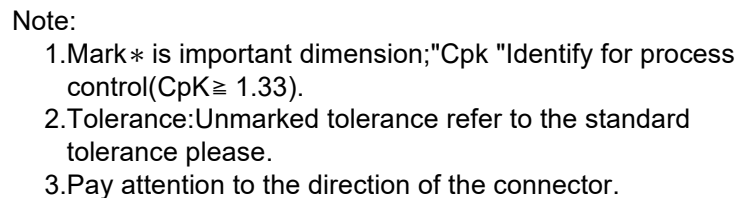


930MHz



6.Mechanical Drawing See attached files

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



3	CR-113-ZP-A	I-PEX	Cu	Au Plated	1
2	CB-113BS	Coaxial Cable	OD1.13	Black	1
1	AN0915-FPC448099	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

 Tengxiang Electronics Co., Ltd.					
TITLE: Antenna					
PART NO.: AN0915-FPC19BX				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY	UNITS: mm	X.X ±0.5
2025.12.22	2025.12.22	2025.12.22	2025.12.22	SCALE: 1/1	X.XX ±0.2
				REVISION: A	X ±1

产品包装规范

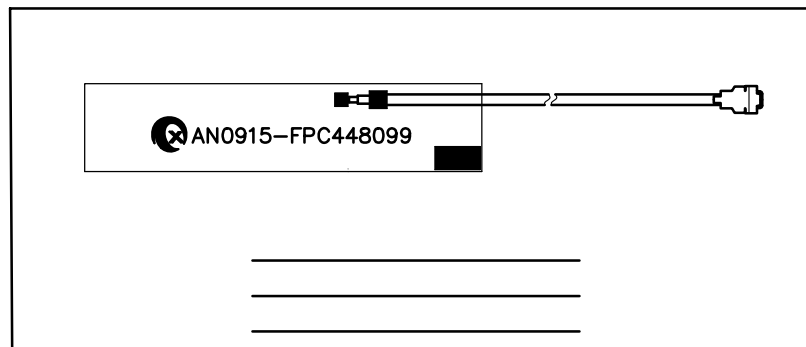
PACKING CRITERION

Date: 2025.12.22

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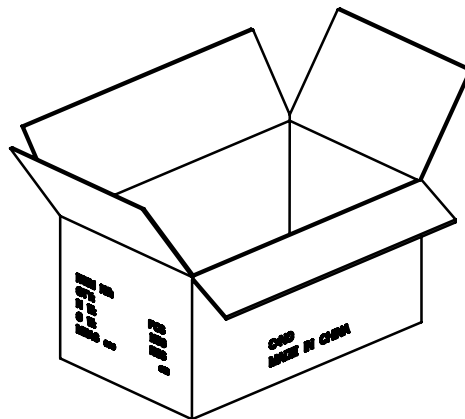
Part Number : AN0915-FPC19BX	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



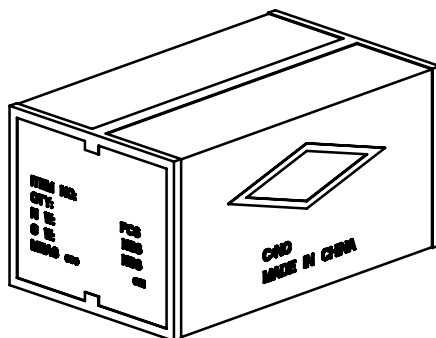
100pcs/ PE bag

2.PACKING。

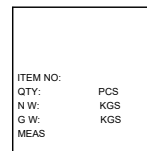


8000pcs/Carton

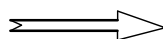
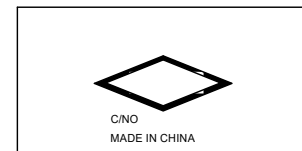
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX CHECKED BY : HC DESIGNED BY : SY Y