



# 东莞市皇捷通讯科技有限公司

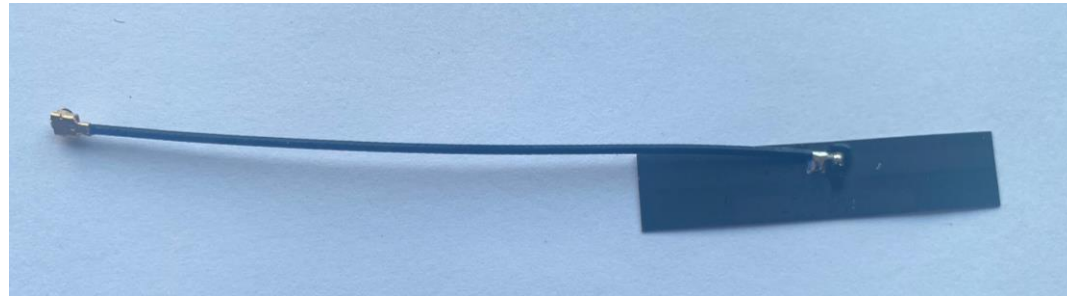
DONGGUAD HUANG JIE COMMUNI CAT ION TECHNOLOGY CO.,LTD.

3N0401BK-013

2.4/5GHz ISM Flexible Polymer

## Key Features

2.4/5 GHz ISM  
2400-2500 MHz  
5150-5850 MHz  
Embedded Antenna  
Wifi Antenna  
High Performance  
Ground Plane Independent  
Self-Adhesive  
Dimensions 48.4 x 9.4mm  
ustomizable Cable and Connecto



## Description

3N0401BK-013 antenna is flexible high efficiency embedded solution covering 2.4 /5GHz. Antenna can be easily mounted in most devices due to self-adhesive layer and small size. 3N0401BK-013 is omnidirectional, ground plane independent antenna. Cable and connector is upon request.

东莞市皇捷通讯科技有限公司

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## Antenna and electrical specifications

Parameters	2.4/5GHz ISM Flexible Polymer
Standards	双频
Band (MHz)	2.4/5GHz
Frequency (MHz)	2400-2500 MHz, 5150-5850 MHz
Return Loss (dB)	-15.6
VSWR	<2.0
Efficiency (%)	40-60
Peak Gain (dBi)	3
Impedance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector Type	Most RF Connectors (U.FL Standard)
Cable Length	Any Cable Length (100mm Standard)
Cable Type	Other Cables Available (1.13mm Standard)

### Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

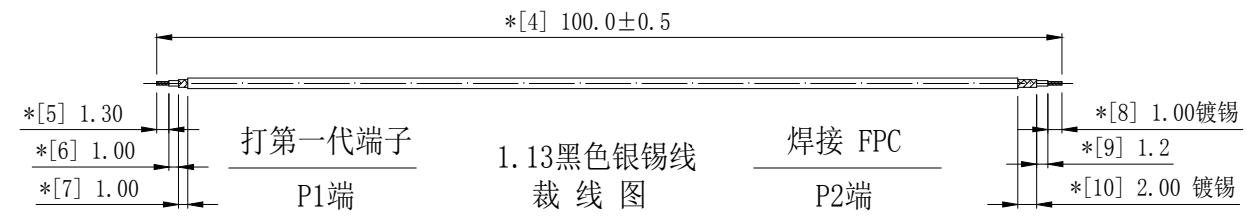
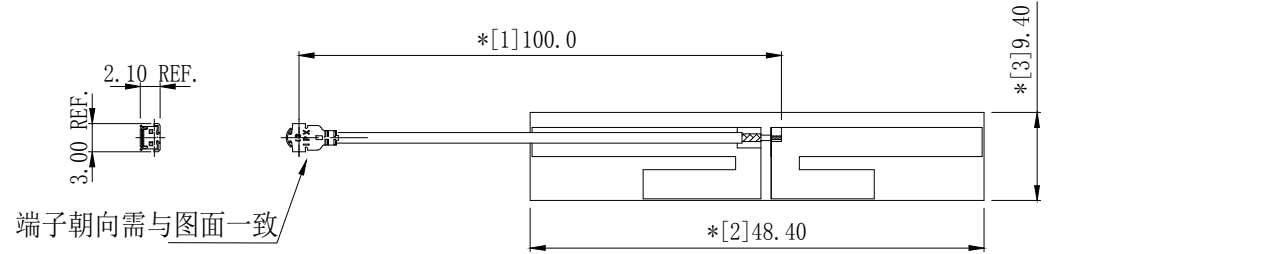
Measured in Certified CTIA 3DAnechoic Chamber



## Mechanical and environmental specifications

Specifications	3N0401BK-013
Mounting Type	Self-Adhesive
Dimensions (mm)	48.4 x 9.4mm
Adhesive Type	3M
Material	Flexible Polymer
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

REVISION	DESCRIPTION	DATE	DRAFTER
A0	FIRST RELEASE	19.07.24	MARK



技术要求:

- 电气特性: 特性阻抗:50Ω。  
检验方法: 单测天线, 使用矢量网络分析仪100%测试。
- 尺寸检验: [\*]为FAI检测项目; \*为重点检测项目; ■为CPK管制项目。
- 外观检验: 电缆裁切须平整, 镀锡须光亮, 导体不得有多余股数伸出与散乱;  
PCB不得有划痕、刮伤、露铜等不良, 焊接须饱满, 不得有假焊、虚焊、毛刺;  
电缆外被不得有破损、折皱及异色等不良。  
检验方法: 目视全检。
- 包装规范: 50PCS/扎, 2扎/包, 即100PCS/包。
- 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

No.	PART NUMBER	PART NAME & DESCRIPTION	Q' TY	REMARKS
3	2LM10P113210	第一代 MHF FOR 1.13 CABLE	1	---
2	2YF074	FPC ANTENNA , 黑色防焊漆	1	---
1	2C5M11311BK1	OD1.13黑色银锡线-50 OHM	1	依裁线图裁线

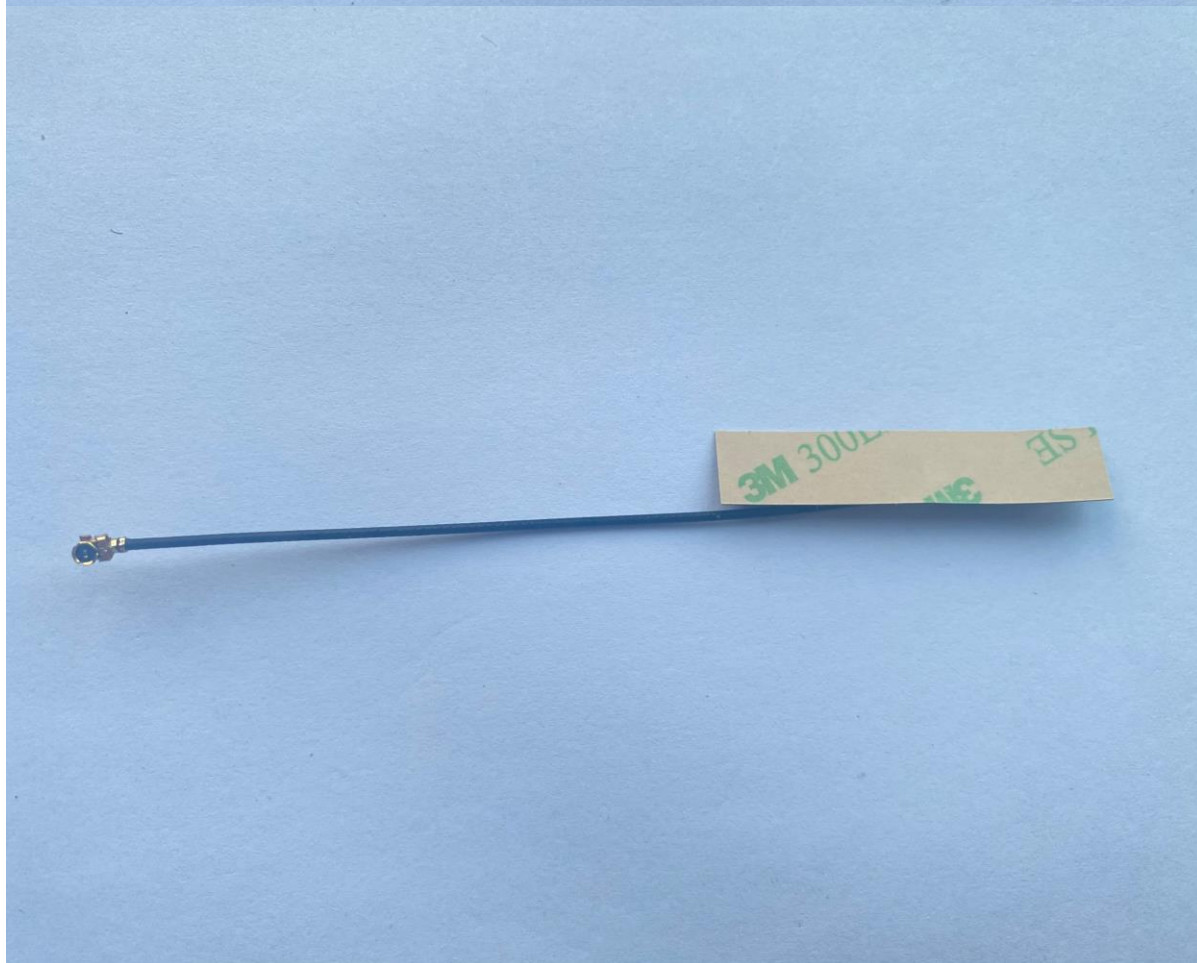
GENERAL TOLERANCE: LINEAR: X ±1.0 X.X ±0.50 X.XX ±0.30 X.XXX ±0.10 ANGLE: X° ±4.00° X.X° ±3.00° X.XX° ±2.00° X.XXX° ±1.00°		HJ-Tech 东莞市皇捷通讯科技有限公司	
FILE NAME: 产品图	TITLE: 射频天线组件 内置天线, 1.13, 黑色银锡线; P1端焊接FPC; P2端打一代端子; 裁线长L=100.0mm	P/N: 3N0401BK-013	
ENG/DATE: Mark/19.06.21	CHE/DATE:	APP/DATE:	UNIT: mm
SCALE: 1:1	REVISION: AO	SHEET: 1/1	

COMPLIANCE WITH THE REQUIREMENT: ■RoHS; □HF; □SONY SS-00259; □OTHERS  
\*NO USING ESTRICED AND BANNED SUBSTANCE

H372

1	2	3	4	5	6	7	8
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# 实物照片



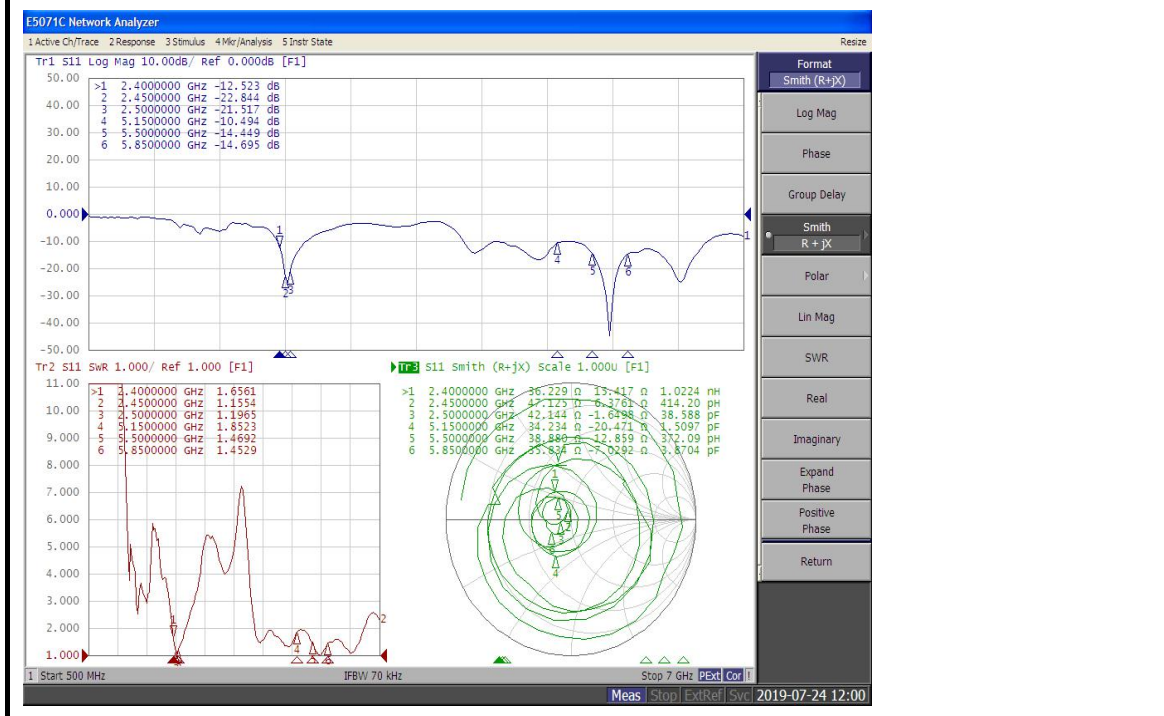


# 天线电气特性测试报告

## Antenna Electrical Characteristic Test Report

文件编号:HJ-QR-Q-22 Rev:A0

产品料号 Part Number:	3N0401BK-013	测试项目 Item	规格 Spec	结果判定 Judge
产品名称 Part Name:	内置天线,1.13,黑色银锡线;P1端焊接FPC; P2端打一代端子;裁线长L=100mm	VSWR 驻波比	$\leq 2.0$	pass
测试设备 Test Equipment	Network analyzer网络分析仪	Characteristic impedance 特性阻抗	50Ω	pass
数量 Quantity	5pcs	Return loss 回波损耗	$\leq -10\text{dB}$	pass
测试日期 Test Date	7/22/2019	Gain 增益		



审核Checker: 王俊

测试者Tester: Mark



产品料号

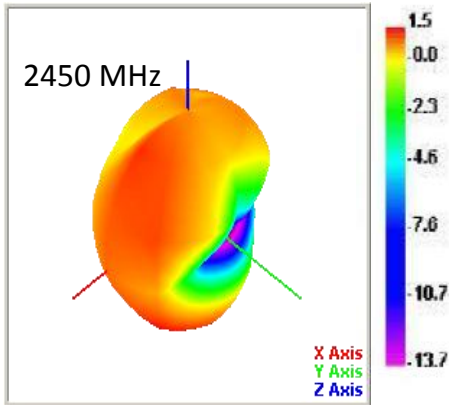
3N0401BK-013

产品名称

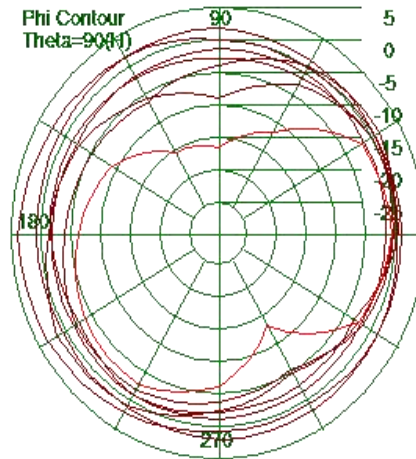
/

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	2400.0	2400.00	3.62	5.13	70.6%	11	2500.0	2500.00	3.14	4.92	66.4%
2	2410.0	2410.00	3.60	5.18	69.5%	12	5000.0	5000.00	2.24	4.76	55.9%
3	2420.0	2420.00	3.92	5.42	70.9%	13	5100.0	5100.00	2.75	4.93	60.5%
4	2430.0	2430.00	4.05	5.55	70.9%	14	5200.0	5200.00	2.57	4.98	57.4%
5	2440.0	2440.00	4.03	5.67	68.5%	15	5300.0	5300.00	2.08	5.20	48.8%
6	2450.0	2450.00	3.88	5.40	70.3%	16	5400.0	5400.00	2.48	5.88	45.6%
7	2460.0	2460.00	3.42	5.13	67.6%	17	5500.0	5500.00	2.35	5.88	44.4%
8	2470.0	2470.00	3.21	4.79	69.4%	18	5600.0	5600.00	1.81	5.66	41.2%
9	2480.0	2480.00	3.10	4.79	67.8%	19	5700.0	5700.00	1.46	4.82	46.1%
10	2490.0	2490.00	3.12	4.74	68.9%	20	5800.0	5800.00	1.47	5.03	44.1%
11	2500.0	2500.00	3.14	4.92	66.4%	21	5900.0	5900.00	2.31	5.61	46.8%

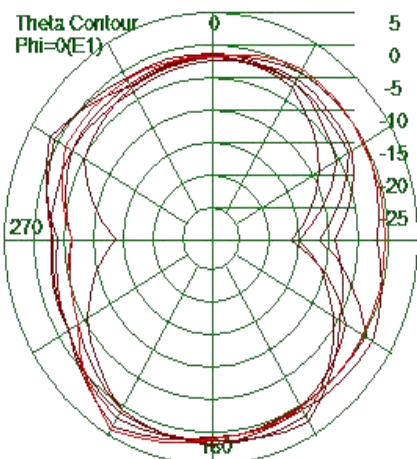
Radiation



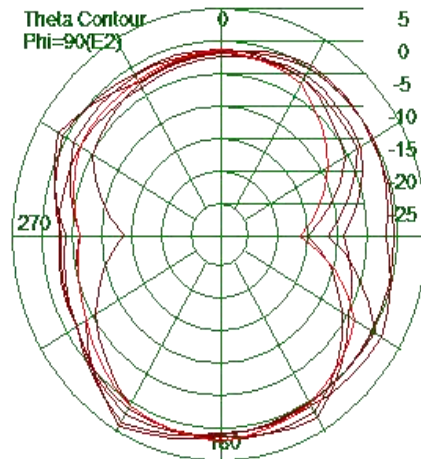
2450 MHz H



2450 MHz E1



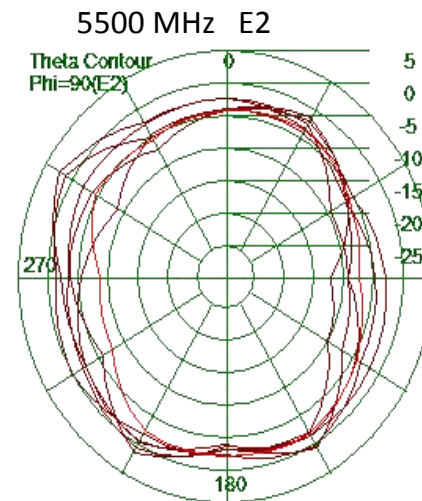
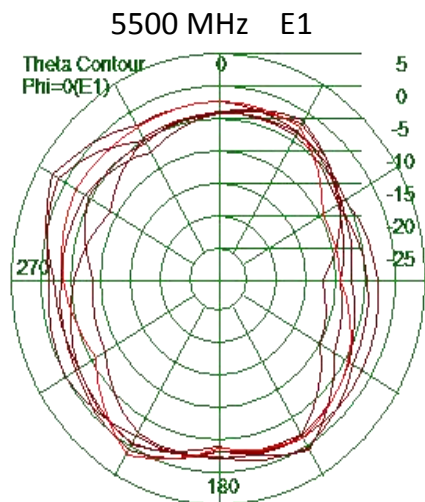
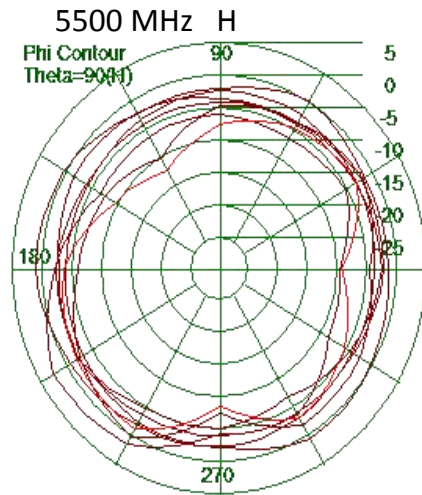
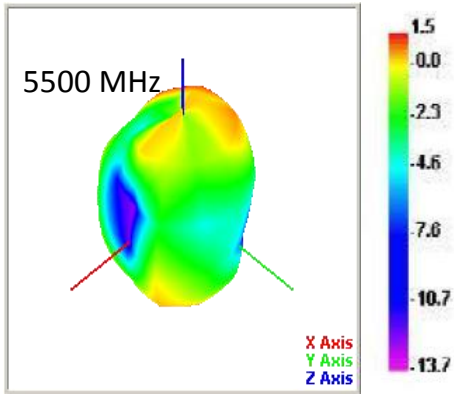
2450 MHz E2



审核Checker: 王俊

测试者Tester: Mark

### Radiation



审核Checker: 王俊

测试者Tester: Mark



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