



# 东莞市皇捷通讯科技有限公司

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

3N0401BK-028

4GHz ISM Flexible Polymer

## Key Features

4 GHz ISM

824-960 MHz

1710-2690 MHz

Embedded Antenna

Wifi Antenna

High Performance

Ground Plane Independent

Self-Adhesive

Dimensions 60.0 x 24.5mm

ustomizable Cable and Connecto



## Description

3N0401BK-028 antenna is flexible high efficiency embedded solution covering 4GHz. Antenna can be easily mounted in most devices due to self-adhesive layer and small size. 3N0401BK-028 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	4GHz ISM Flexible Polymer
Standards	WiFi
Band (MHz)	4GHz
Frequency (MHz)	824-960 MHz, 1710-2170 MHz, 2300-2690 MHz
Return Loss (dB)	-15.6
VSWR	<3.0
Efficiency (%)	40-60
Peak Gain (dBi)	2
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 (110mm Standard)
Cable Type	Other Cables Available (1.13mm Standard)

### Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

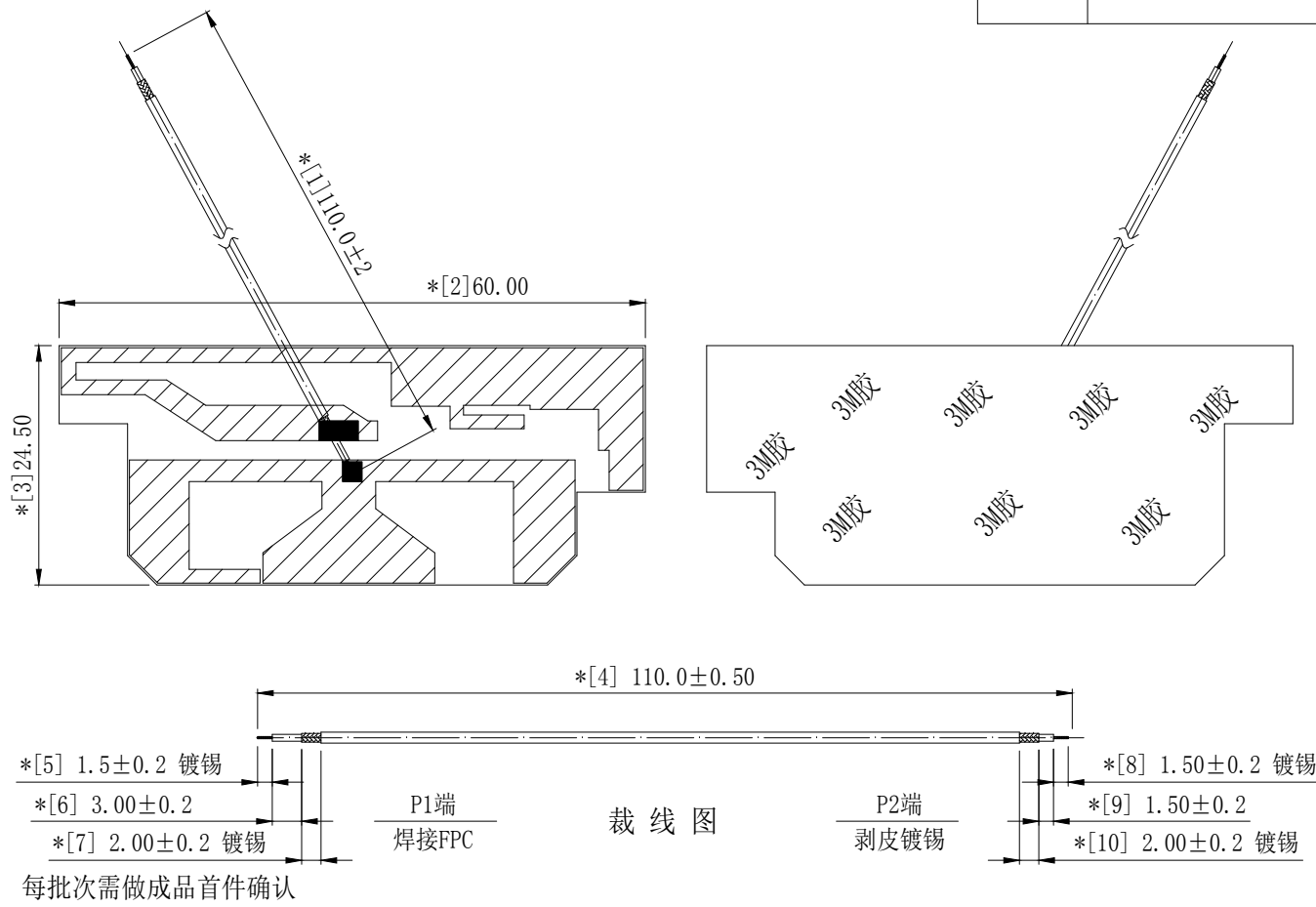
Measured in Certified CTIA 3DAnechoic Chamber



## Mechanical and environmental specifications

Specifications	3N0401BK-028
Mounting Type	Self-Adhesive
Dimensions (mm)	60.0 x24.5mm
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	首次发行	20.12.31	S.He



每批次需做成品首件确认

- 技术要求:
- 1 方向要求: 无方向要求。
  - 2 电气特性: 特性阻抗: 50Ω; 频率范围: 824MHz-960MHz; 1710MHz-2690MHz;
  - 3 尺寸检验: 使用矢量网络分析仪100%比对波形测试。
  - 4 外观检验: 目视全检。产品表面不得有刮伤、破损和脏污; 镀层色泽光亮均匀, 不得有氧化。
  - 5 包装规范: 25PCS/扎, 2扎/包, 即50PCS/包。
  - 6 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

2	2C5M11312BK1	OD1.13黑色双锡线-50 OHM	1	---
1	2YF110	FPC L24.5*W60mm, 表面喷黑油	1	----
NO	PART NUMBER	PART NAME & DESCRIPTION	Q'TY	REMARKS

GENERAL TOLERANCE:  
 LINEAR:  
 X ±0.20  
 X.X ±0.15  
 X.XX ±0.05  
 X.XXX ±0.01  
 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: 4G FPC天线 (2YF110) +1.13黑色双锡线, 线长L:110mm

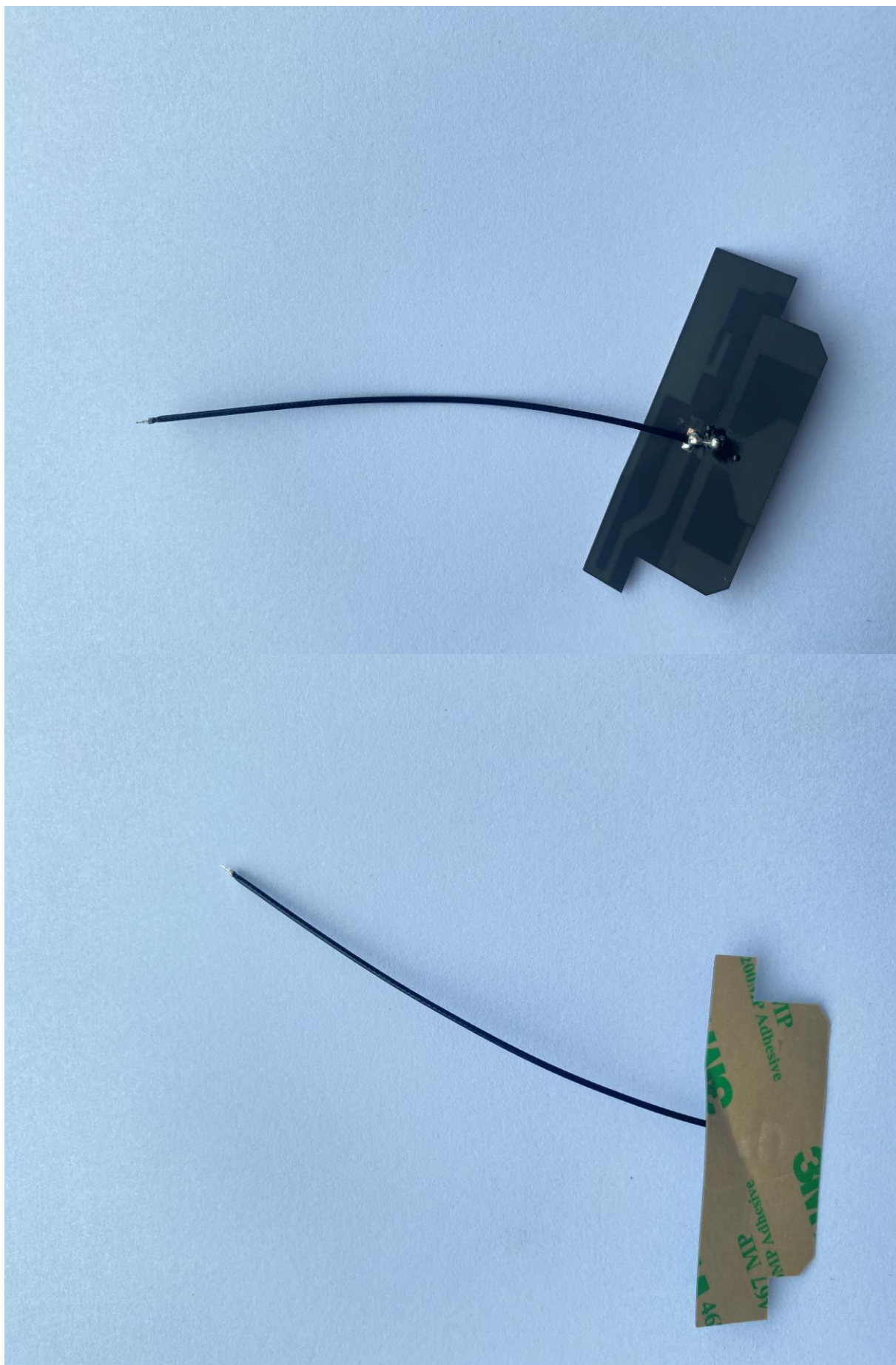
ENG/DATE: S.He/20.12.01

CHE/DATE: P/N: 3N0401BK-028

APP/DATE: UNIT: mm SCALE: 1:1 REVISION: A0 SHEET: 1/1

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

# 实物照片

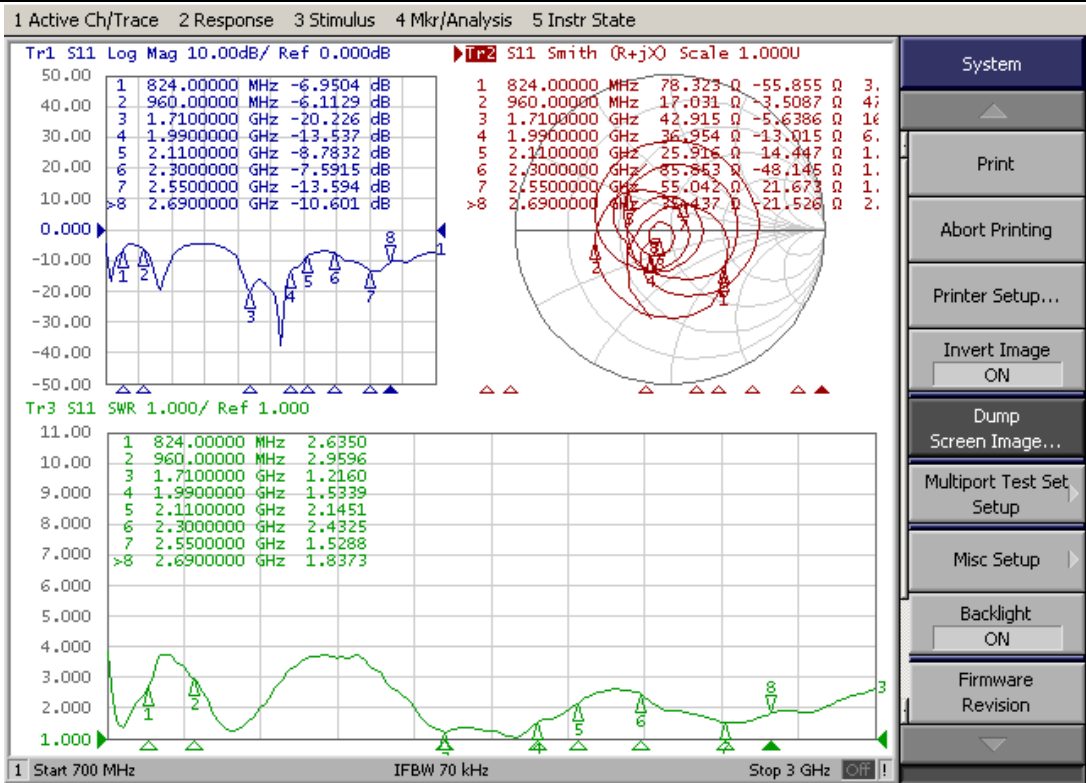




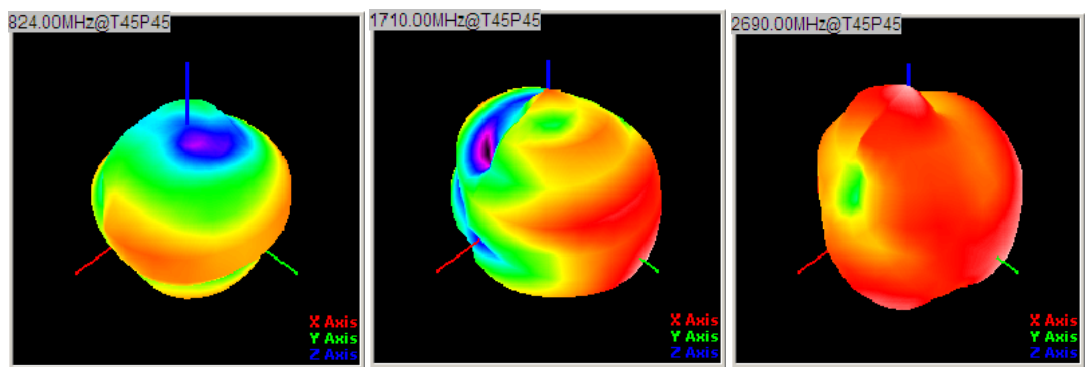
# 天线电气特性测试报告

## Antenna Electrical Characteristic Test Report

产品料号 Part Number:	3N0401BK-028	测试项目 Item	规格 Spec	结果判定 Judge
产品名称 Part Name:	4G内置FPC天线	Characteristic impedance 特性阻抗	50Ω	OK
测试设备 Test Equipment	网络分析仪/微波暗室	824~960MHz VSWR	3.0 Max	OK
数量 Quantity	5 pcs	1710~2690MHz VSWR	3.0 Max	OK
测试日期 Test Date	2020/12/01	Gain 增益	2.0dBi	OK



Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Frequency (MHz)	824.0	841.0	858.0	875.0	892.0	909.0	926.0	943.0	960.0	1710.0	1808.0	1906.0	2004.0	2102.0	2200.0	2298.0	2396.0	2494.0	2592.0	2690.0
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-6.39	-6.14	-5.89	-4.87	-4.23	-4.17	-4.91	-5.31	-5.54	-3.97	-4.62	-3.67	-4.04	-3.54	-4.26	-5.57	-5.27	-5.00	-5.17	-4.46
Peak EIRP (dBm)	-0.12	-0.10	-0.16	0.34	0.11	0.27	-0.15	-0.08	-0.02	0.75	0.79	1.55	1.82	1.76	1.58	1.69	1.58	1.79	1.04	1.02
Directivity (dB)	5.87	5.63	5.73	5.21	4.12	3.91	4.16	4.93	5.12	3.92	4.71	5.22	5.86	5.30	4.84	4.97	5.55	4.91	4.14	4.44
Efficiency (dB)	-6.39	-6.14	-5.89	-4.87	-4.23	-4.17	-4.91	-5.31	-5.54	-3.97	-4.62	-3.67	-4.04	-3.54	-4.26	-5.57	-5.27	-5.00	-5.17	-4.46
Efficiency (%)	33.00	34.30	35.80	42.60	37.80	38.20	32.30	39.50	37.90	40.00	44.50	43.00	49.50	44.30	47.50	47.70	49.70	51.70	40.40	45.80



审核Checker: 王俊

测试者Tester: River

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