

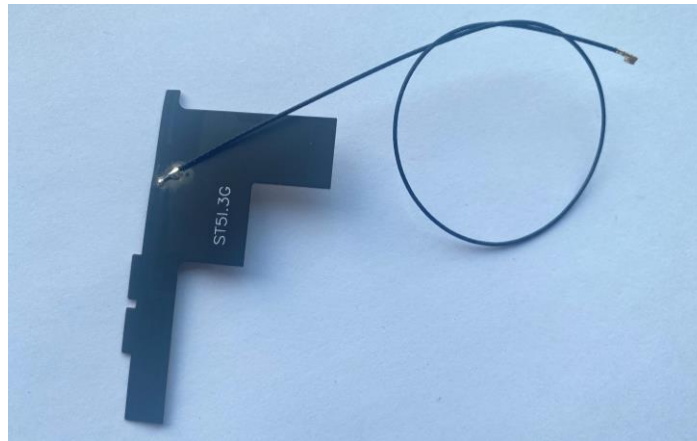


# 东莞市皇捷通讯科技有限公司

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

3N0401BK-034

3 GHz ISM Flexible Polymer



## Key Features

- 3 GHz ISM
- 2400-2500 MHz
- 1710-2170 MHz
- Embedded Antenna
- Wifi Antenna
- High Performance
- Ground Plane Independent
- Self-Adhesive
- Dimensions 40.0 x 6.0mm
- ustomizable Cable and Connecto

## Description

3N0401BK-034 antenna is flexible high efficiency embedded solution covering 3GHz. Antenna can be easily mounted in most devices due to self-adhesive layer and small size. 3N0401BK-034 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	3 GHz ISM Flexible Polymer
Standards	
Band (MHz)	3GHz
Frequency (MHz)	2400-2500 MHz,1710-2170 MHz
Return Loss (dB)	-15
VSWR	1.5
Efficiency (%)	50
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 (235mm Standard)
Cable Type	Other Cables Available (0.81mm Standard)

### Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

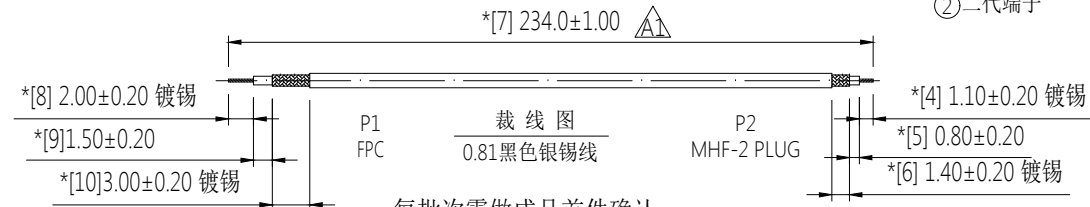
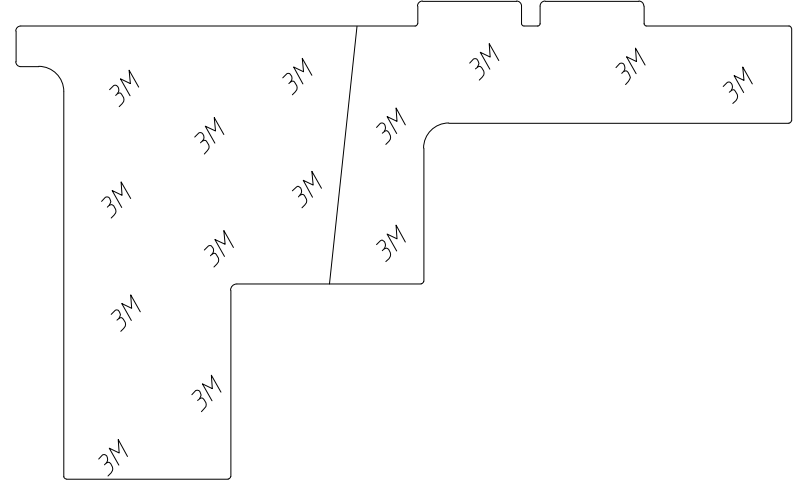
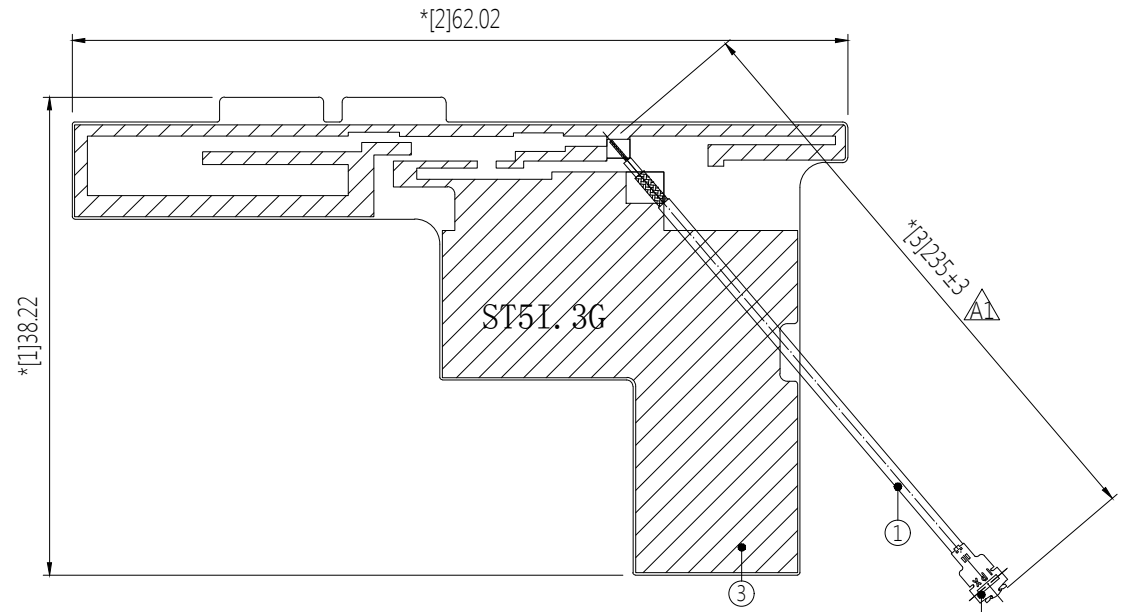
Measured in Certified CTIA 3DAnechoic Chamber



## Mechanical and environmental specifications

Specifications	3N0401BK-034
Mounting Type	Self-Adhesive
Dimensions (mm)	40.0 x 6.0mm
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	21.09.07	S.He
A1	变更线长	21.10.26	S.He



技术要求: 每批次需做成品首件确认

- 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~2170MHz;  
检验方法: 单测天线,使用网络分析仪100%比对Gold sample波形测试。
- 3 拔出力测试: 最小0.8kgf。  
测试方法: 沿电缆中心轴,以约25±3毫米/分钟的速度,垂直将0.8kg砝码提高桌面即为合格。
- 4 尺寸检验: [\*]为FAI检测项目; \*为重点检测项目; ■为CPK管制项目。
- 5 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;  
FPC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。
- 6 包装规范: 50CS/扎, 2扎/包, 即100PCS/包。
- 7 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

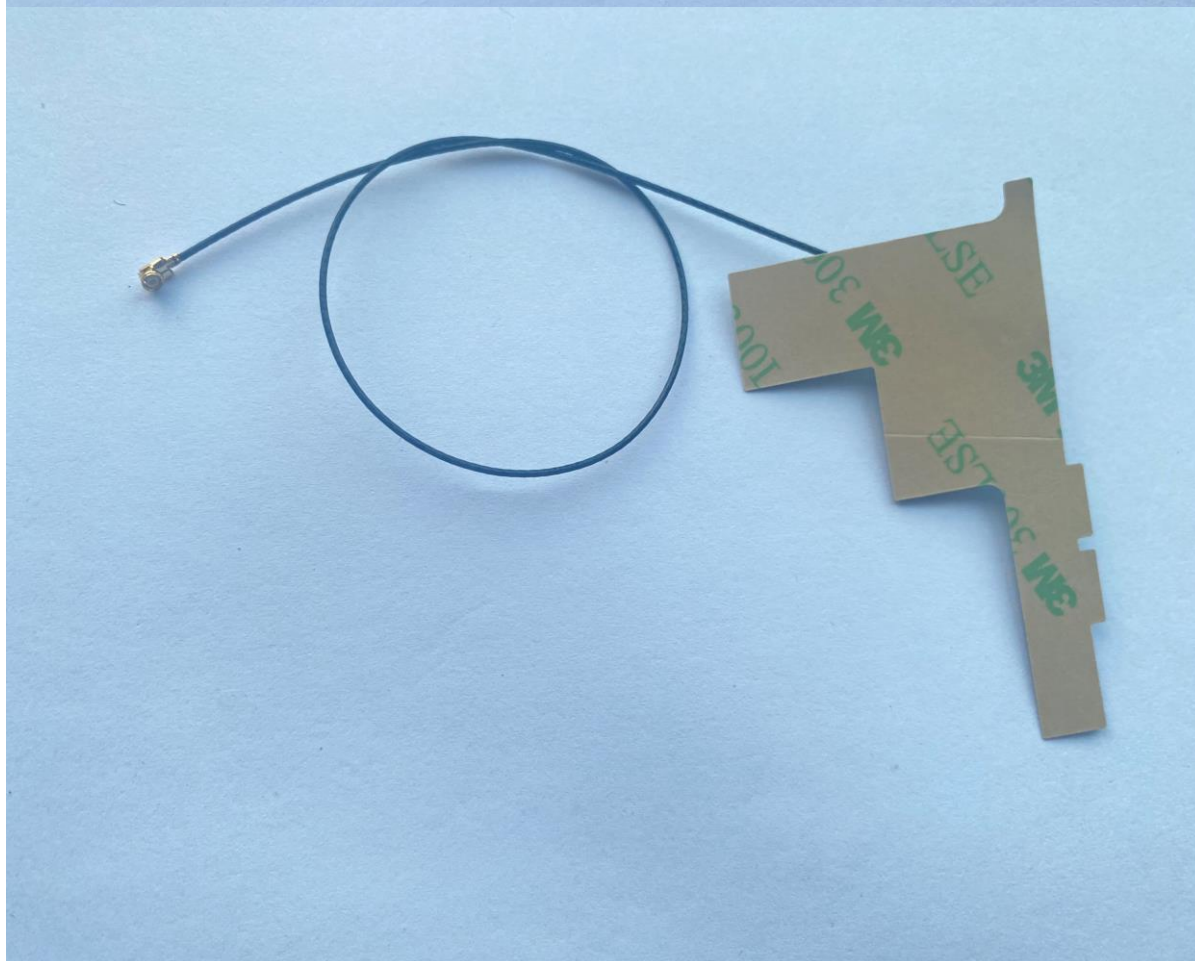
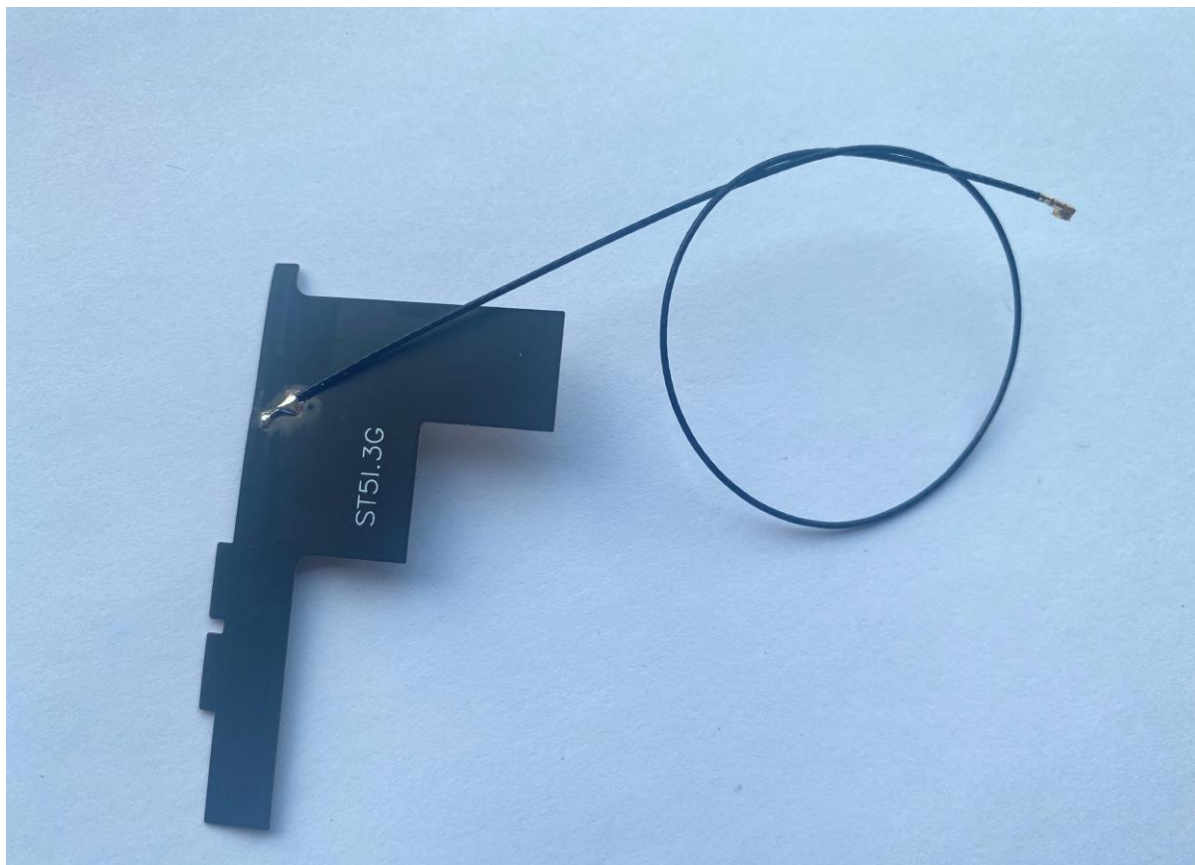
COMPLIANCE WITH THE REQUIREMENT: RoHS; HF; SONY SS-00259; OTHERS  
\*NO USING ESTRICED AND BANNED SUBSTANCE

H366

3	2YF122	FPC L62*W38.2mm, 喷黑油背胶	1	---
2	2LM20P081211	MHF II PLUG FOR OD0.81 CABLE	1	---
1	2C5M08111BK1	OD0.81黑色银锡线-50 OHM	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: 内置天线, 0.81黑色银锡线, P1端焊接FPC, P2端打二代端子, 线长235mm, ST5I (3G天线), RF2106015	P/N: 3N0401BK-034	
ENG/DATE: S.He/21.06.05	CHE/DATE:	APP/DATE:	UNIT: mm
SCALE: 1:1	REVISION: A0	SHEET: 1/1	

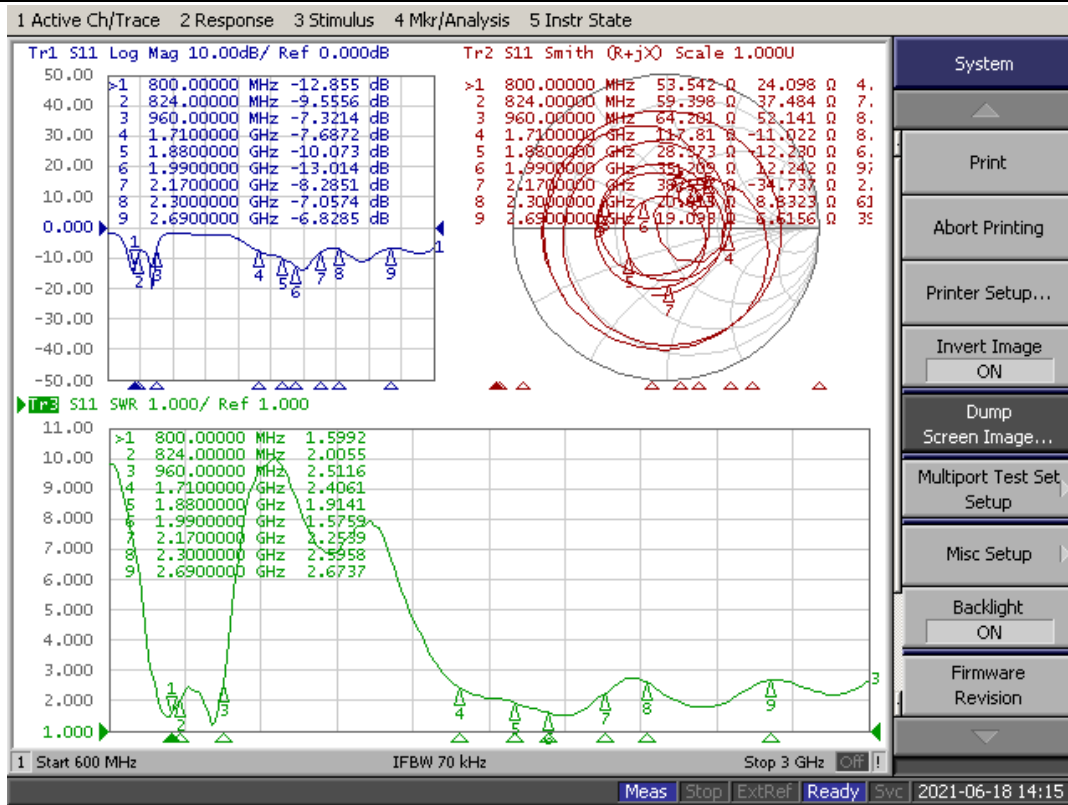
# 实物照片



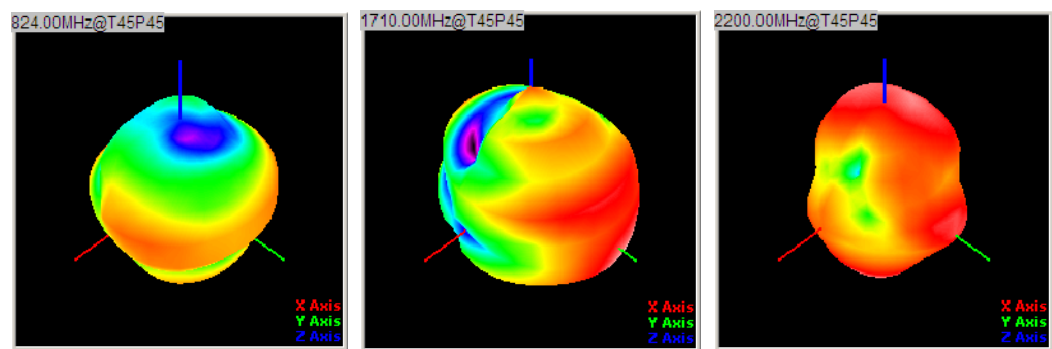
天线电气特性测试报告

Antenna Electrical Characteristic Test Report

产品料号 Part Number:	3N0401BK-034	测试项目 Item	规格 Spec	结果判定 Judge
产品名称 Part Name:	ST5I(3G天线) FPC 内置天线	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	1710-2170MHz VSWR	3.0 Max	OK
测试日期 Test Date	2021/06/21	Gain 增益	1~2DB	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	
Point Values																					
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 (%)	40.16	42.66	45.17	47.01	47.11	45.69	43.28	43.14	40.08	45.66	47.14	48.91	51.07	52.11	51.67	48.91	49.01	49.67	50.02	46.38	



审核Checker: 王俊

测试者Tester: Mark

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