

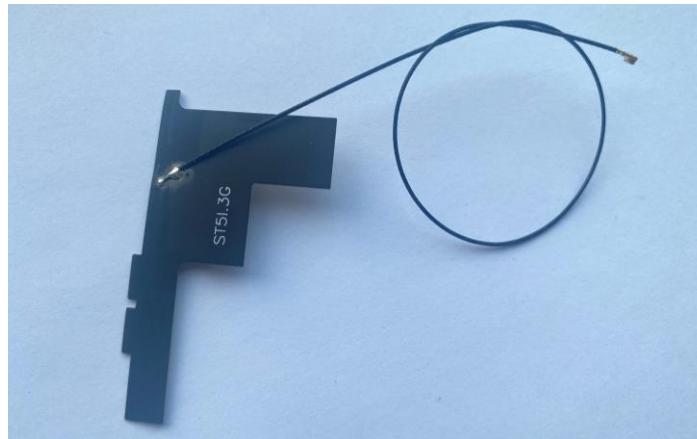


东莞市皇捷通讯科技有限公司

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.

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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

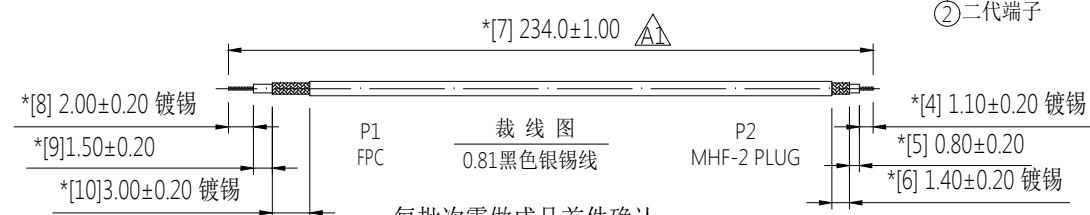
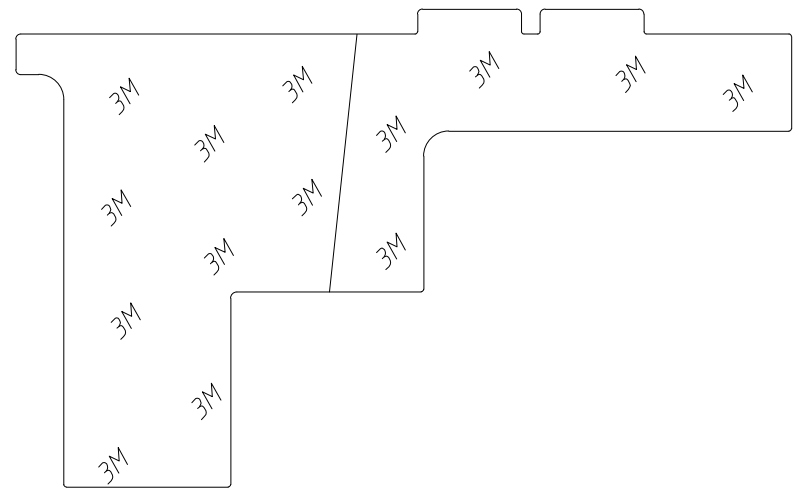
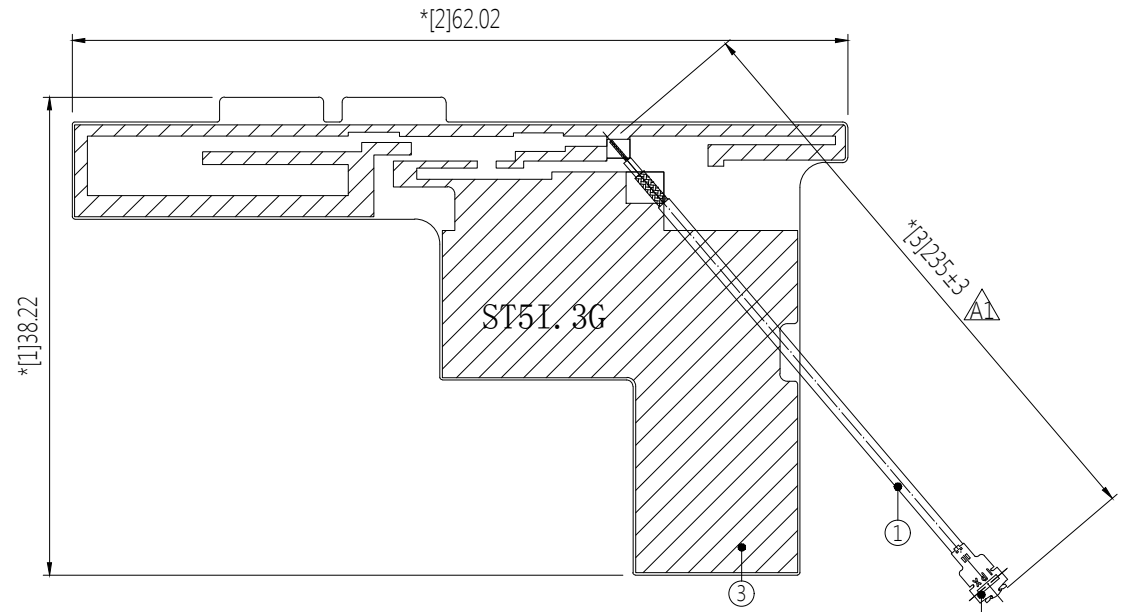
Measured in Certified CTIA 3DAnechoic Chamber



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:

- 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。

| 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

ENG/DATE: S.He/21.06.05
CHE/DATE: .
APP/DATE: .

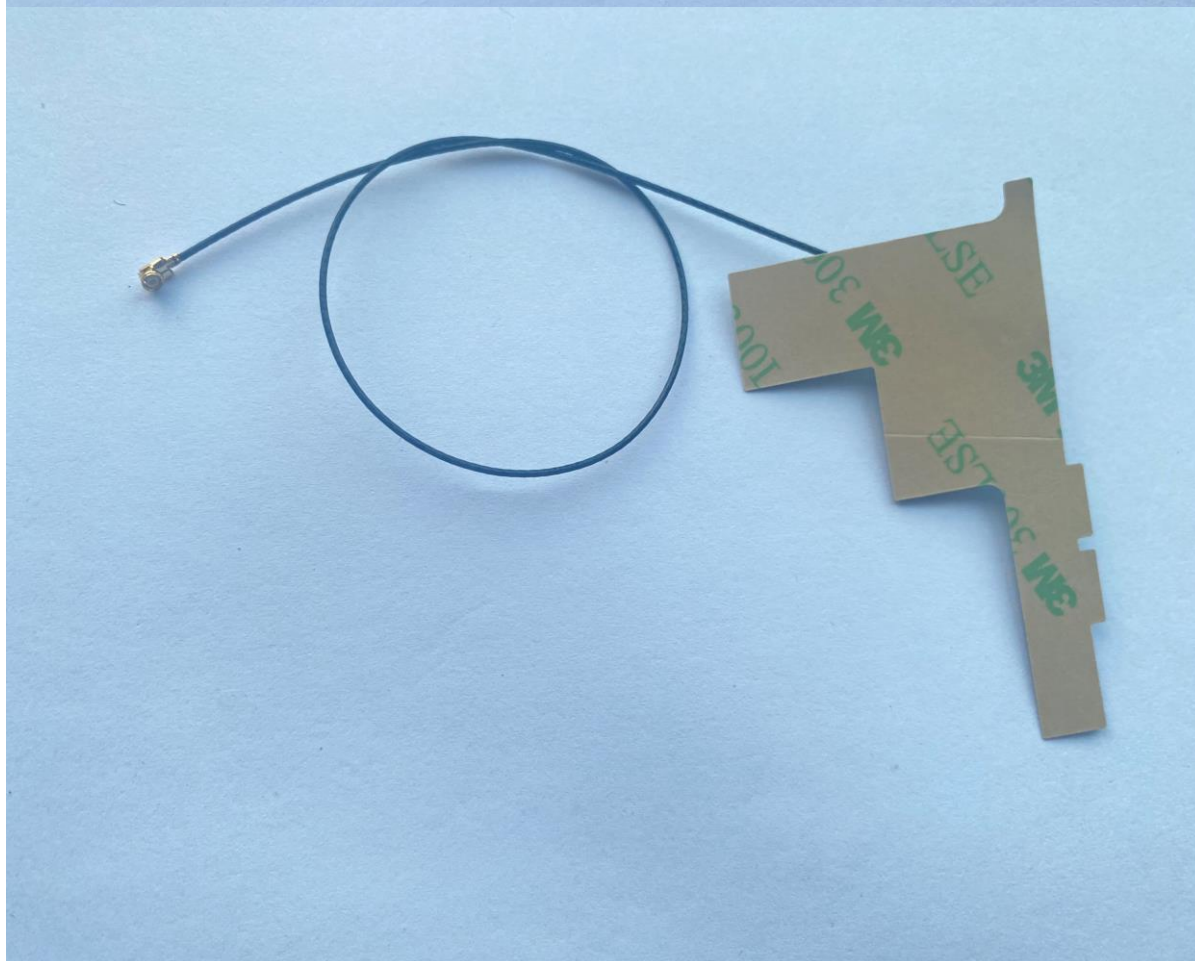
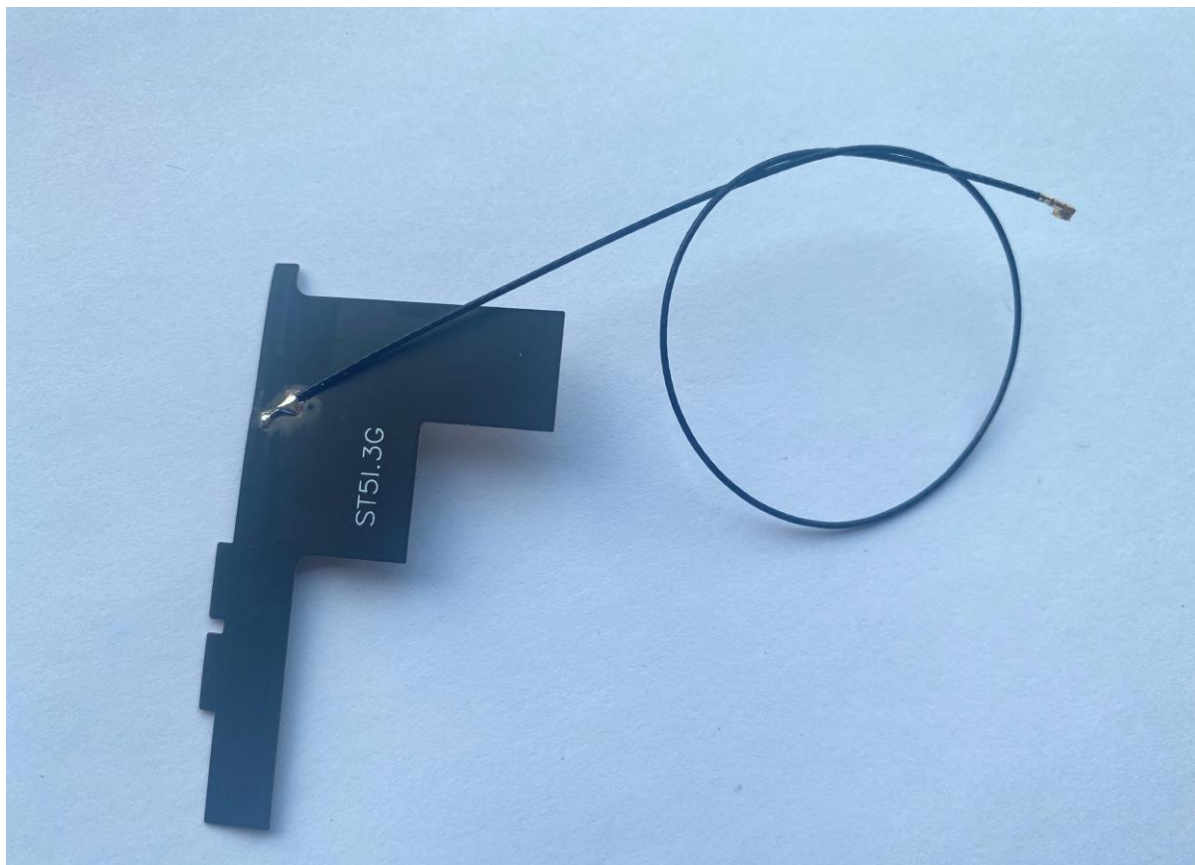
P/N: 3N0401BK-034

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

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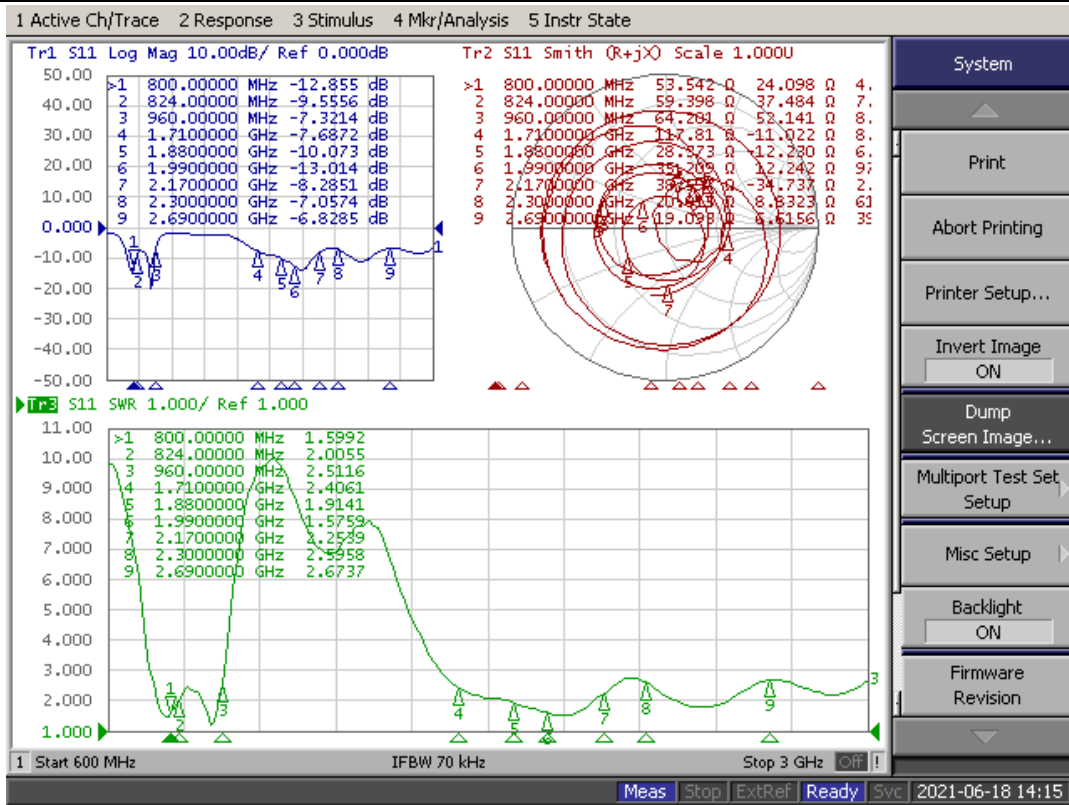
实物照片



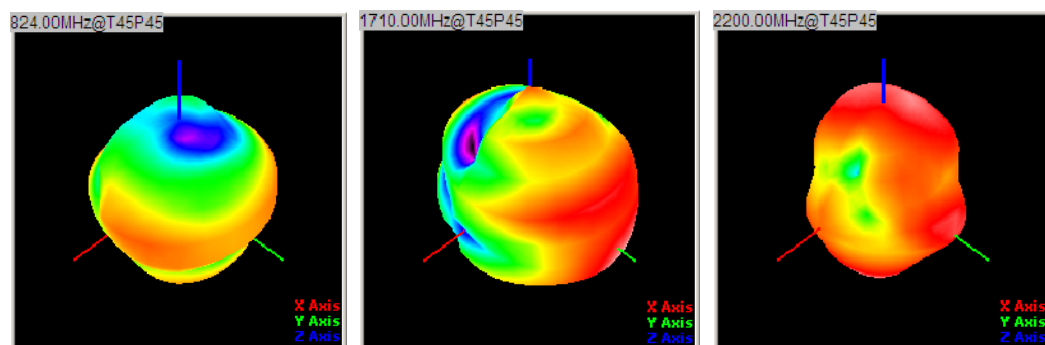
天线电气特性测试报告

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