



东莞市皇捷通讯科技有限公司

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

3N0401BK-035

2.4GHz ISM Flexible Polymer

Key Features

2.4 GHz ISM
1575.42 MHz
2400-2500 MHz
Embedded Antenna
Wifi Antenna
High Performance
Ground Plane Independent
Self-Adhesive
Dimensions 40.33 x 34.06mm
ustomizable Cable and Connecto



Description

3N0401BK-035 antenna is flexible high efficiency embedded solution covering 2.4 GHz. Antenna can be easily mounted in most devices due to self-adhesive layer and small size. 3N0401BK-035 is omnidirectional, ground plane independent antenna. Cable and connector is upon request.

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Antenna and electrical specifications

Parameters	2.4GHz ISM Flexible Polymer
Standards	WiFi
Band (MHz)	2.4GHz
Frequency (MHz)	1575.42 MHz, 2400-2500 MHz
Return Loss (dB)	-15.6
VSWR	<2.0
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 (152mm Standard)
Cable Type	Other Cables Available (0.81mm Standard)

Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

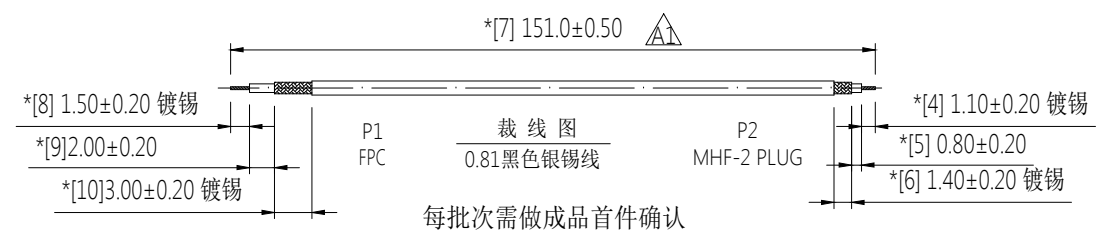
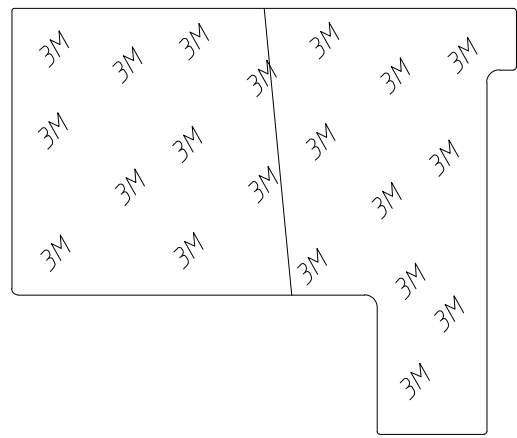
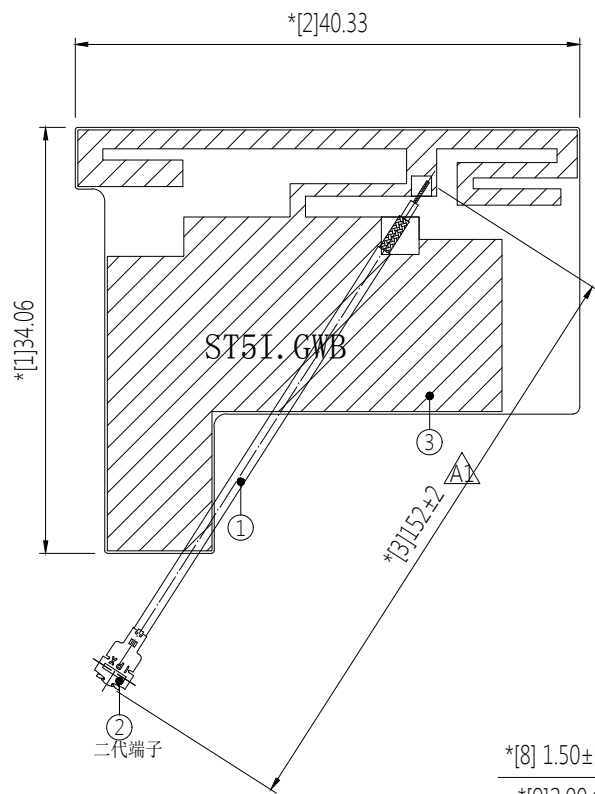
Measured in Certified CTIA 3DAnechoic Chamber



Mechanical and environmental specifications

Specifications	3N0401BK-035
Mounting Type	Self-Adhesive
Dimensions (mm)	40.33 x 34.06mm
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:1575.42MHz, 2400MHz~2500MHz;
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	2YF123	FPC L40.3*W34mm, 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152mm, ST51(WIFI天线),RF2106017

ENG/DATE: S.He/21.06.05 P/N: 3N0401BK-035

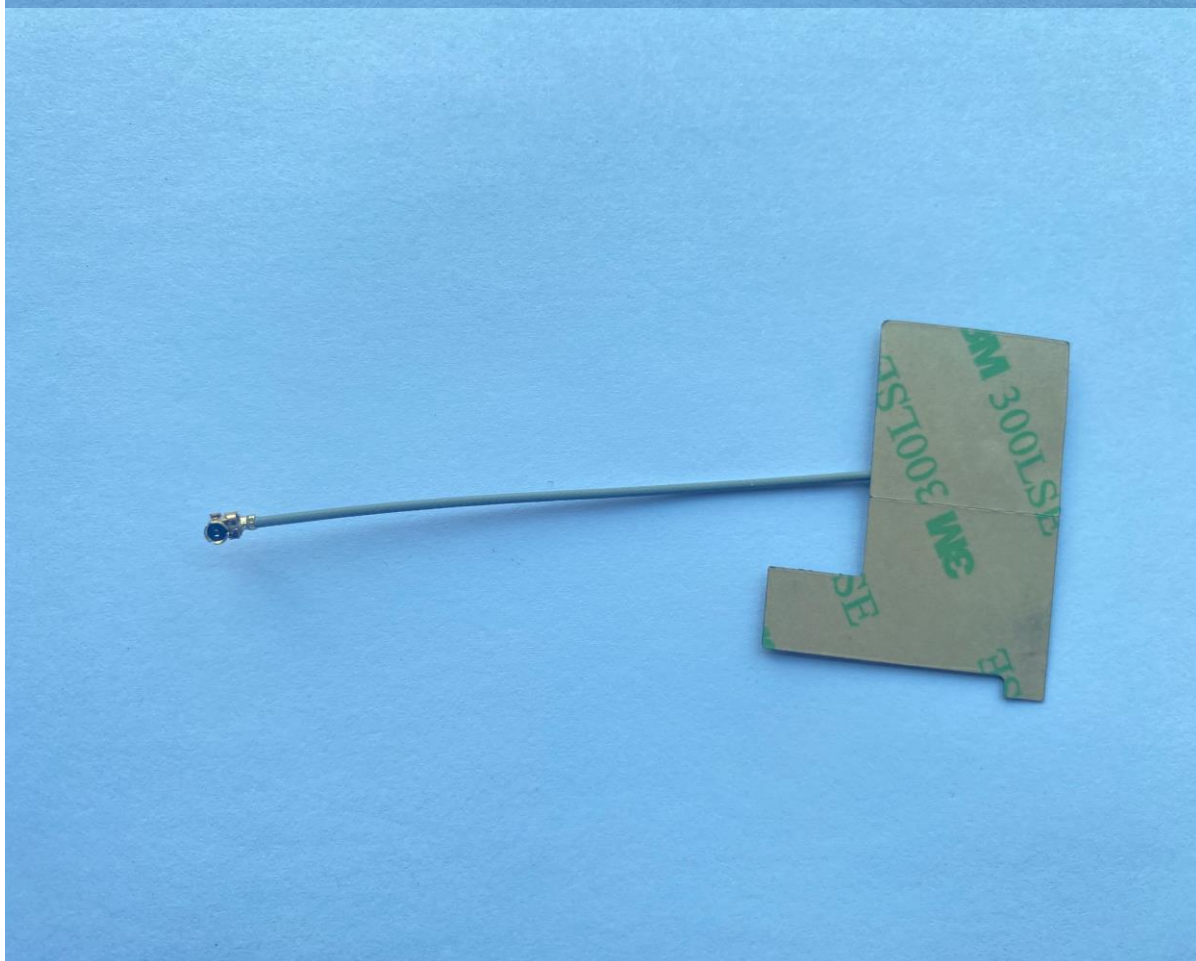
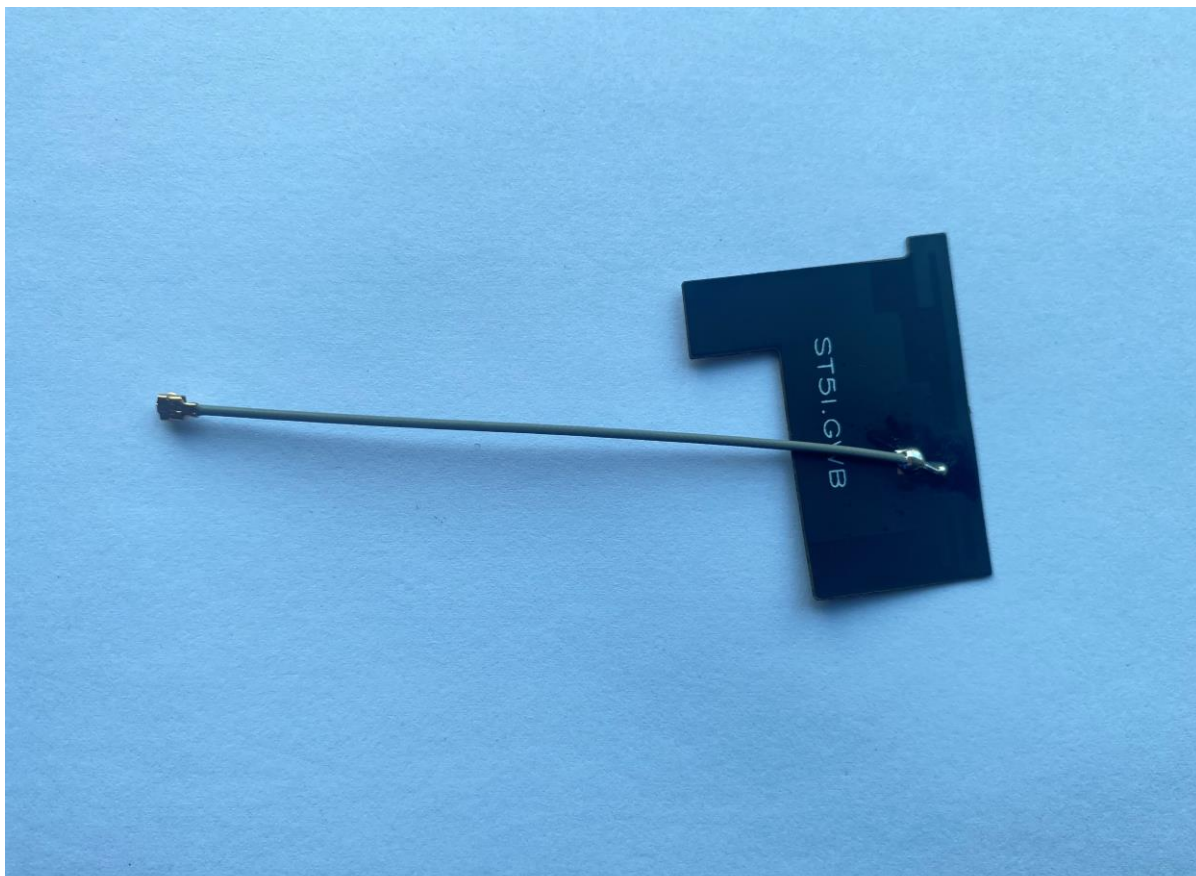
CHE/DATE: . UNIT: mm SCALE: 1:1 REVISION: A0 SHEET: 1/1

APP/DATE: .

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

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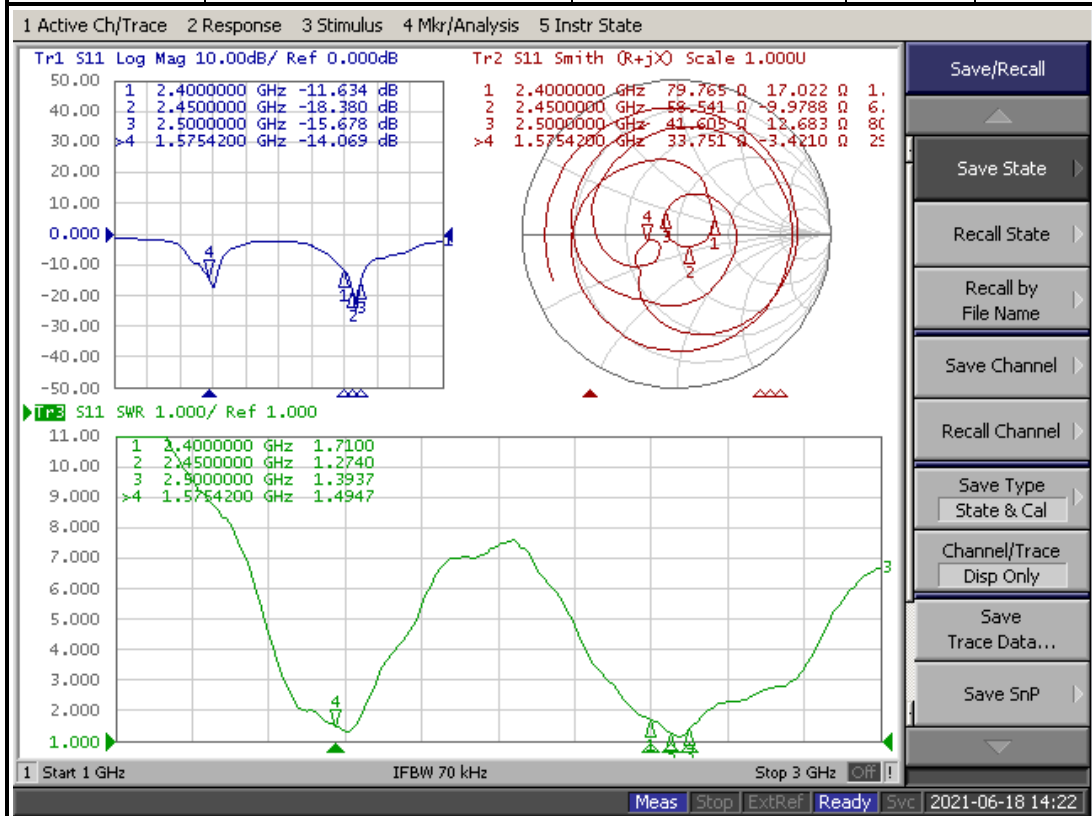
实物照片



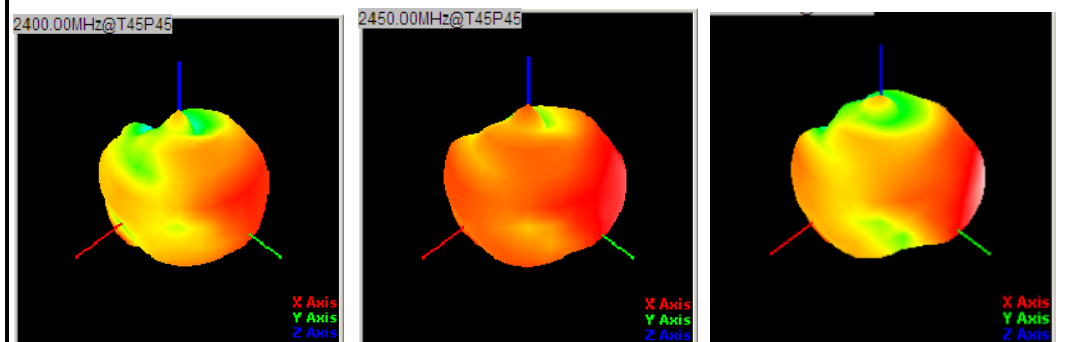
天线电气特性测试报告

Antenna Electrical Characteristic Test Report

产品料号 Part Number:	3N0401BK-035	测试项目 Item	规格 Spec	结果判定 Judge
产品名称 Part Name:	ST5I(GWB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	1575.42MHz VSWR	2.0 Max	ok
数量 Quantity	5 pcs	2400-2500MHz VSWR	2.0 Max	OK
测试日期 Test Date	2021/06/21	Gain 增益	2DB	OK



Frequency ID	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	1560.0	1565.0	1570.0	1575.0	1580.0
Point Values												0.00	0.00	0.00	0.00	0.00
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	-6.39	-6.14	-5.89	-4.87	-4.46
Tot. Rad. Pwr. (dBm)	-3.66	-3.54	-3.54	-3.35	-3.43	-3.56	-3.53	-3.50	-3.83	-3.95	-3.86	1.35	1.51	1.64	1.59	1.29
Peak EIRP (dBm)	2.04	2.41	2.65	2.72	2.59	2.41	2.49	2.51	2.07	1.68	1.51	5.87	5.63	5.73	5.21	4.44
Directivity (dBi)	6.40	6.35	6.19	6.07	6.02	5.97	6.02	6.01	5.90	5.63	5.37	-6.39	-6.14	-5.89	-4.87	-4.46
Efficiency (dB)	-3.66	-3.54	-3.54	-3.35	-3.43	-3.56	-3.53	-3.50	-3.83	-3.95	-3.86	46.35	52.39	62.01	58.14	48.09
Efficiency (%)	51.03	53.04	54.15	56.30	57.61	58.05	57.09	55.60	54.26	52.07	50.66					



审核Checker: 王俊

测试者Tester: Mark

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