



东莞市皇捷通讯科技有限公司

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

3N0401LG-013

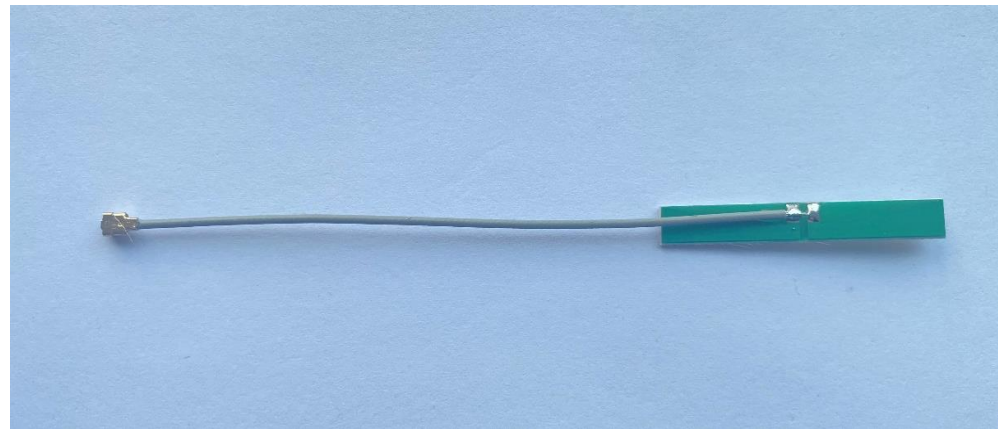
2.4GHz ISM Flexible Polymer

Key Features

2.4 GHz ISM
2400-2500 MHz

Embedded Antenna
Wifi Antenna
High Performance
Ground Plane Independent
Self-Adhesive

Dimensions 43.0 x 7.0mm
ustomizable Cable and Connecto



Description

3N0401LG-013 antenna is flexible high efficiency embedded solution covering 2.4GHz. Antenna can be easily mounted in most devices due to self-adhesive layer and small size. 3N0401LG-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	2.4GHz ISM Flexible Polymer
Standards	WiFi
Band (MHz)	2.4GHz
Frequency (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 (86mm 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

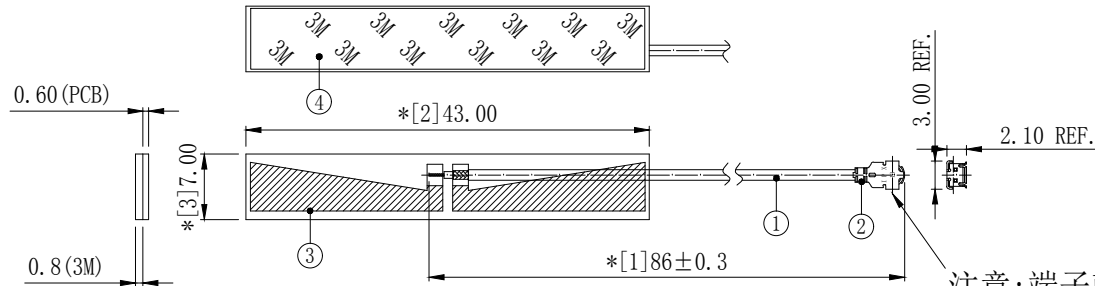


Mechanical and environmental specifications

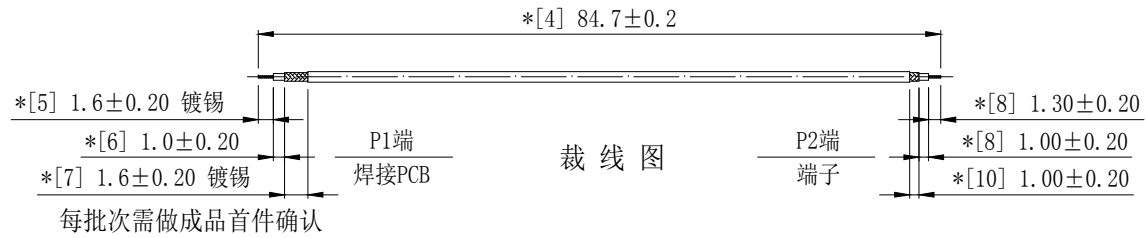
Specifications	3N0401LG-013
Mounting Type	Self-Adhesive
Dimensions (mm)	43.0 x 7.0mm
Adhesive Type	3M
Material	Flexible Polymer
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

REVISION	DESCRIPTION	DATE	DRAFTER
A0	首次发行	21. 03. 29	S. He

- *1、焊接时候焊点不能大，焊点高度不能太高
- *2、贴背胶时 背胶不能超出板子



注意：端子朝向与图纸一致



每批次需做成品首件确认

技术要求：

- 电气特性：特性阻抗:50Ω，频率范围:2.40GHz-2.50GHz；
检验方法：单测天线,使用网络分析仪100% Gold sample 比对波形测试。
- 拔出力测试：最小1.30kgf。
测试方法：沿电缆中心轴,以约25±3毫米/分钟的速度,垂直将1.30kg砝码提高桌面即为合格。
- 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：25PCS/扎，4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。

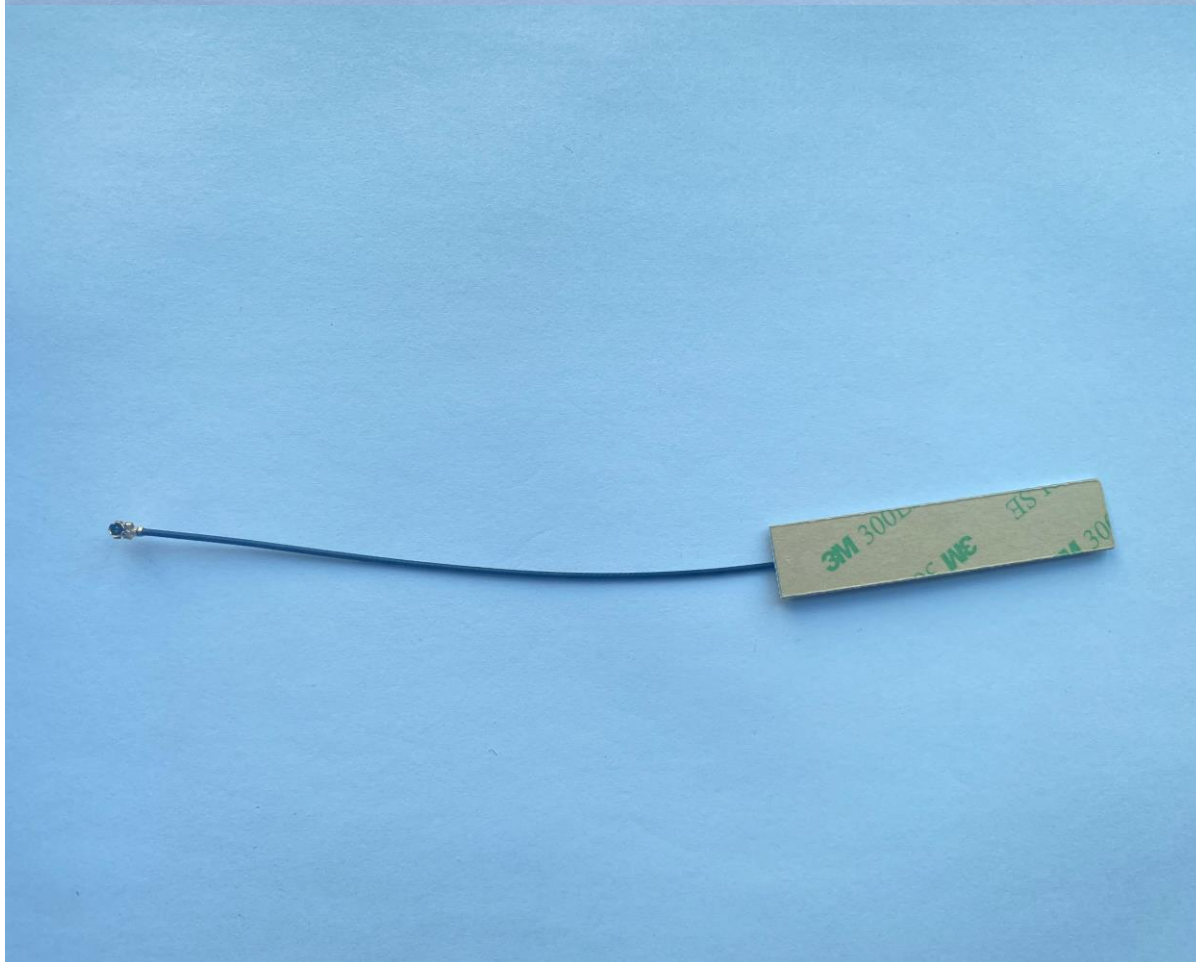
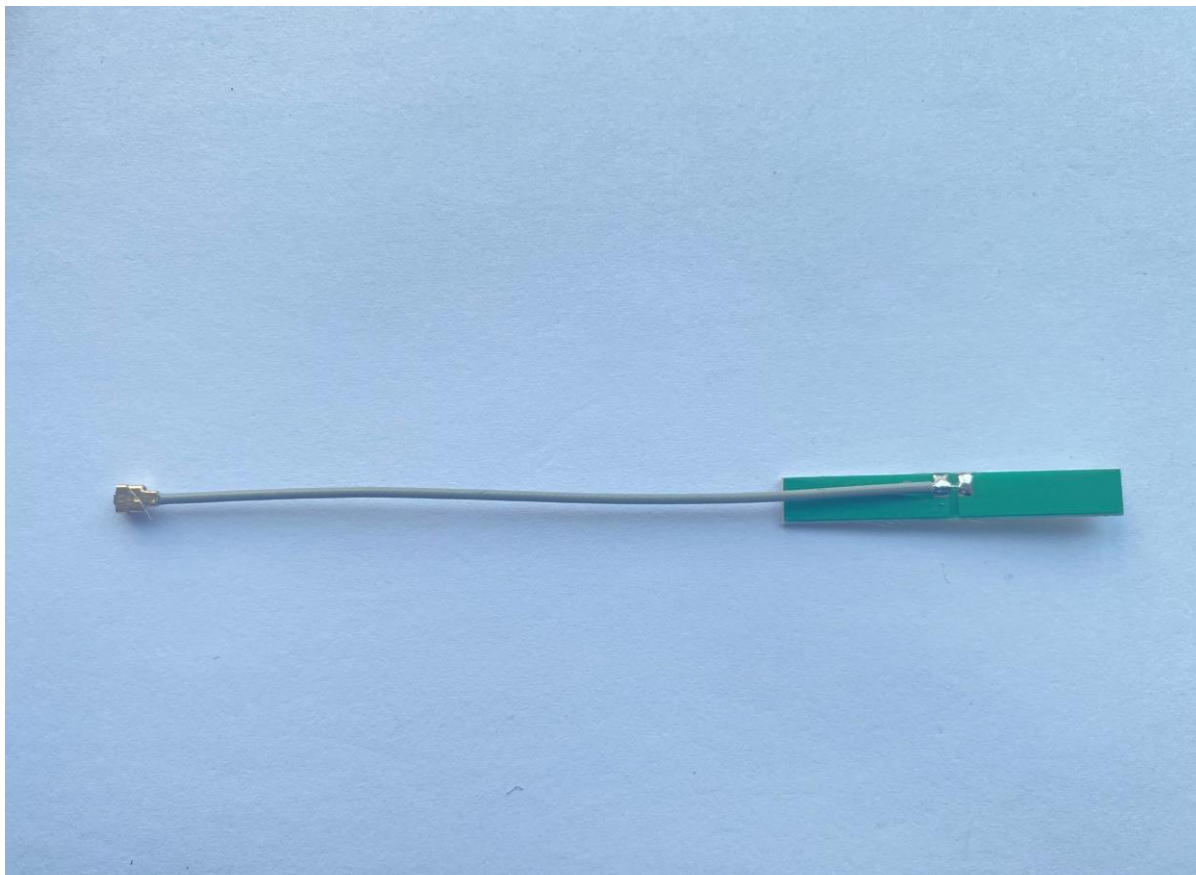
4	2MH086	红色3M双面胶 VHB TM(4941)L42*W6.5*T0.8mm	1	--
3	2YP140	PCB单面板L43.0*W7.0*T0.6mm,N21226-TP02-WIFI	1	--
2	2LM10P113210	MHF I PLUG FOR OD1.13 CABLE	1	高仿
1	2C5M11312LG1	微细同轴电缆, OD1.13, 双锡灰色线	1	依裁线图裁线
No.	PART NUMBER	PART NAME & DESCRIPTION	Q' TY	REMARKS

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: 射频天线组件 内置天线, 1.13灰色双锡线, P1端焊接PCB, P2端打一代端子, L=86mm		
ENG/DATE: S. He/21.03.29	P/N: 3N0401LG-013		
CHE/DATE:	UNIT: mm	SCALE: 1:1	REVISION: AO
APP/DATE:	SHEET: 1/1		

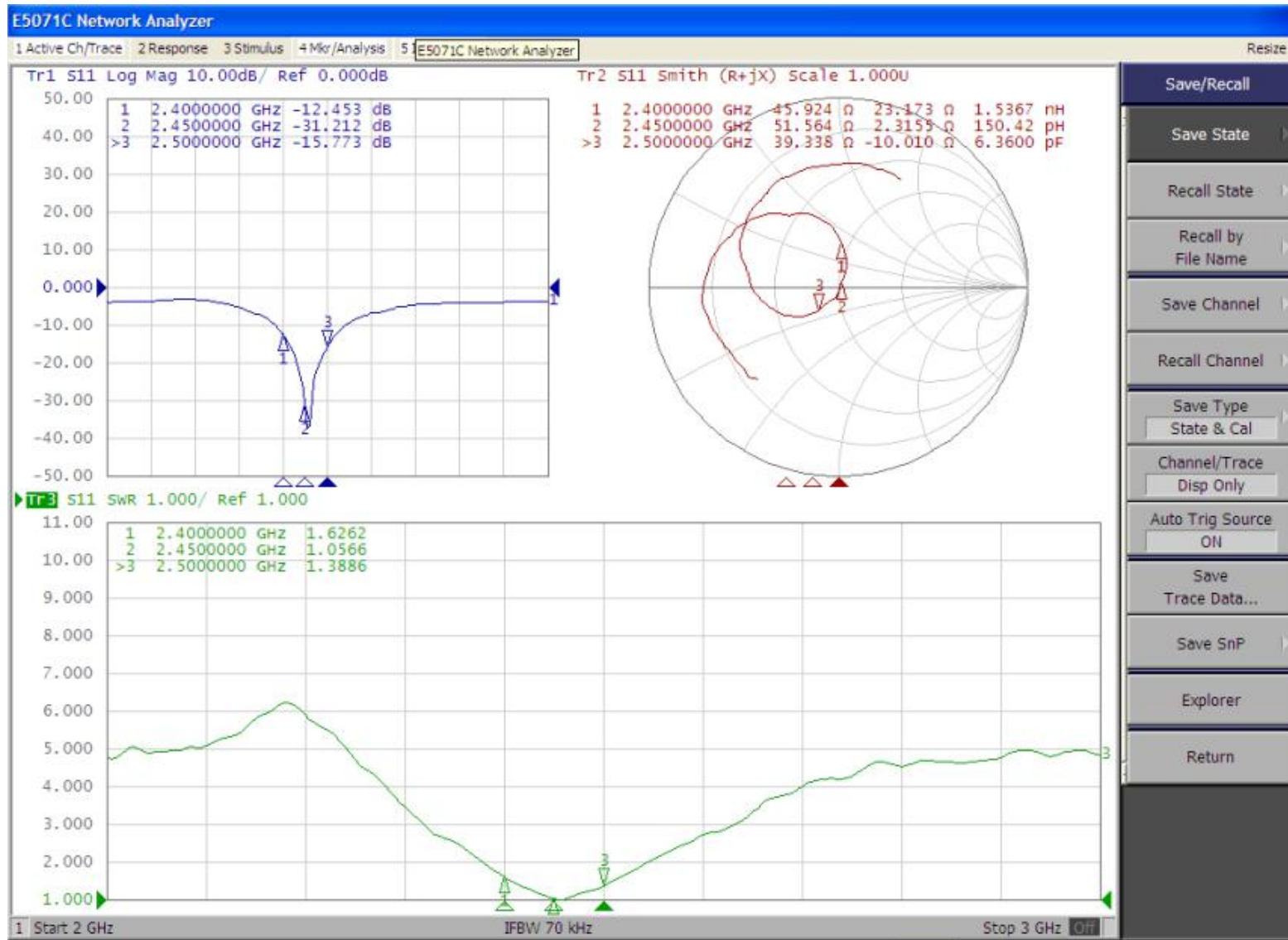
COMPLIANCE WITH THE REQUIREMENT: RoHS; HF; SONY SS-00259; OTHERS
*NO USING ESTRICED AND BANNED SUBSTANCE

H428

实物照片



SWR

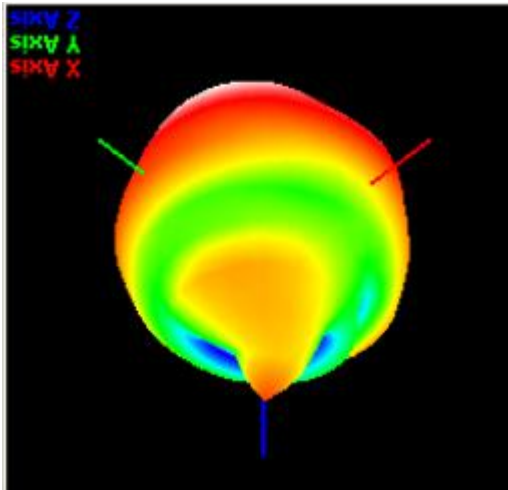


效率增益

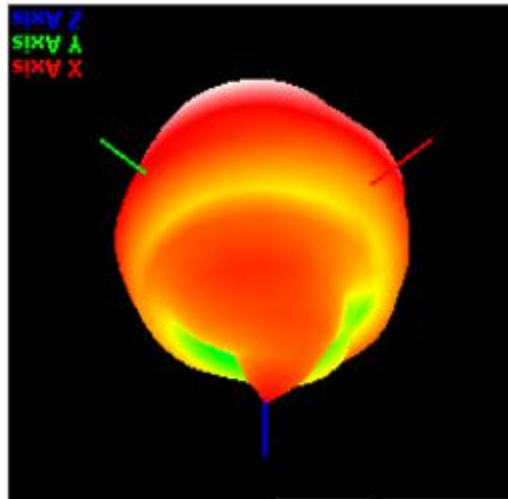
FETUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.23	-2.24	-2.15	-1.96	-1.96	-2.01	-1.97	-1.90	-2.02	-2.15	-2.19
Peak EIRP (dBm)	2.07	2.90	2.09	2.42	2.29	2.15	2.23	2.30	2.10	2.14	2.03
Directivity (dBi)	4.30	4.14	4.25	4.39	4.26	4.16	4.20	4.20	4.12	4.28	4.22
Efficiency (dB)	-2.23	-2.24	-2.15	-1.96	-1.96	-2.01	-1.97	-1.90	-2.02	-2.15	-2.19
Efficiency (%)	55.90	55.70	56.90	58.60	60.60	61.90	59.50	60.50	59.80	61.00	60.40

场型图

2400MHz



2450MHz



2500MHz

