



东莞市皇捷通讯科技有限公司

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

3N0401BK-011

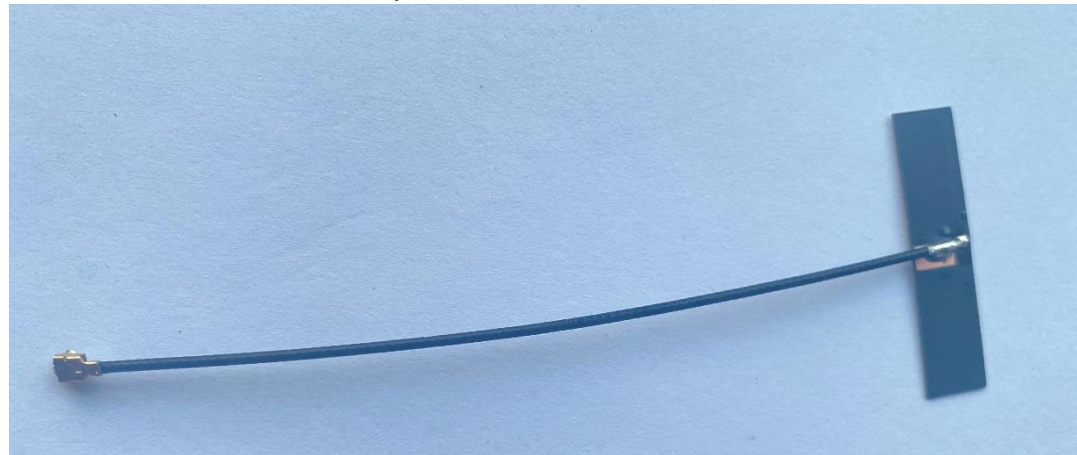
2.4GHz ISM Flexible Polymer

Key Features

2.4 GHz ISM
2400-2500 MHz

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

Dimensions 32.6 x 8.0mm
ustomizable Cable and Connecto



Description

3N0401BK-011 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-011 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)	2400-2500 MHz
Return Loss (dB)	-15.6
VSWR	<2.0
Efficiency (%)	45-60
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 (97.5mm Standard)
Cable Type	Other Cables Available (1.13mm Standard)

Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

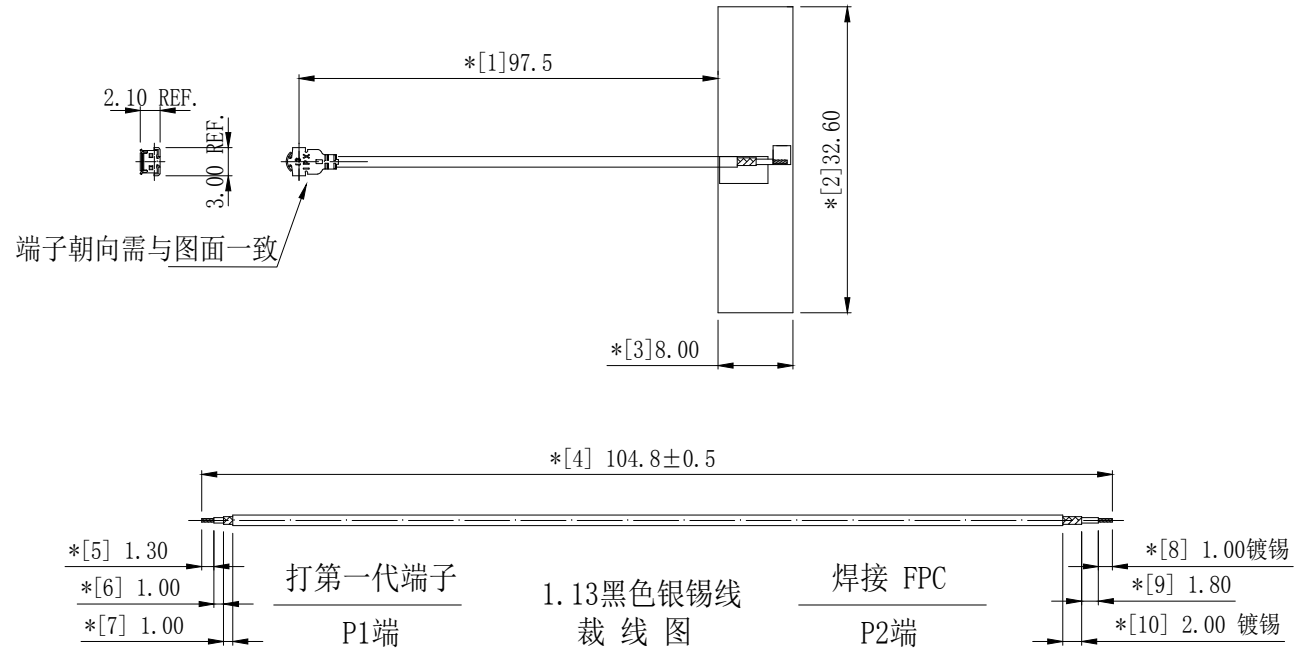
Measured in Certified CTIA 3DAnechoic Chamber



Mechanical and environmental specifications

Specifications	3N0401BK-011
Mounting Type	Self-Adhesive
Dimensions (mm)	32.6 x 8.0mm
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	FIRST RELEASE	19.06.21	MARK
A1	变更焊接方式	19.07.09	MARK



技术要求:

- 1 电气特性: 特性阻抗: 50Ω。
检验方法: 单测天线, 使用矢量网络分析仪100%测试。
- 2 尺寸检验: [*]为FAI检测项目; *为重点检测项目; ■为CPK管制项目。
- 3 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。
- 4 包装规范: 50PCS/扎, 2扎/包, 即100PCS/包。
- 5 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

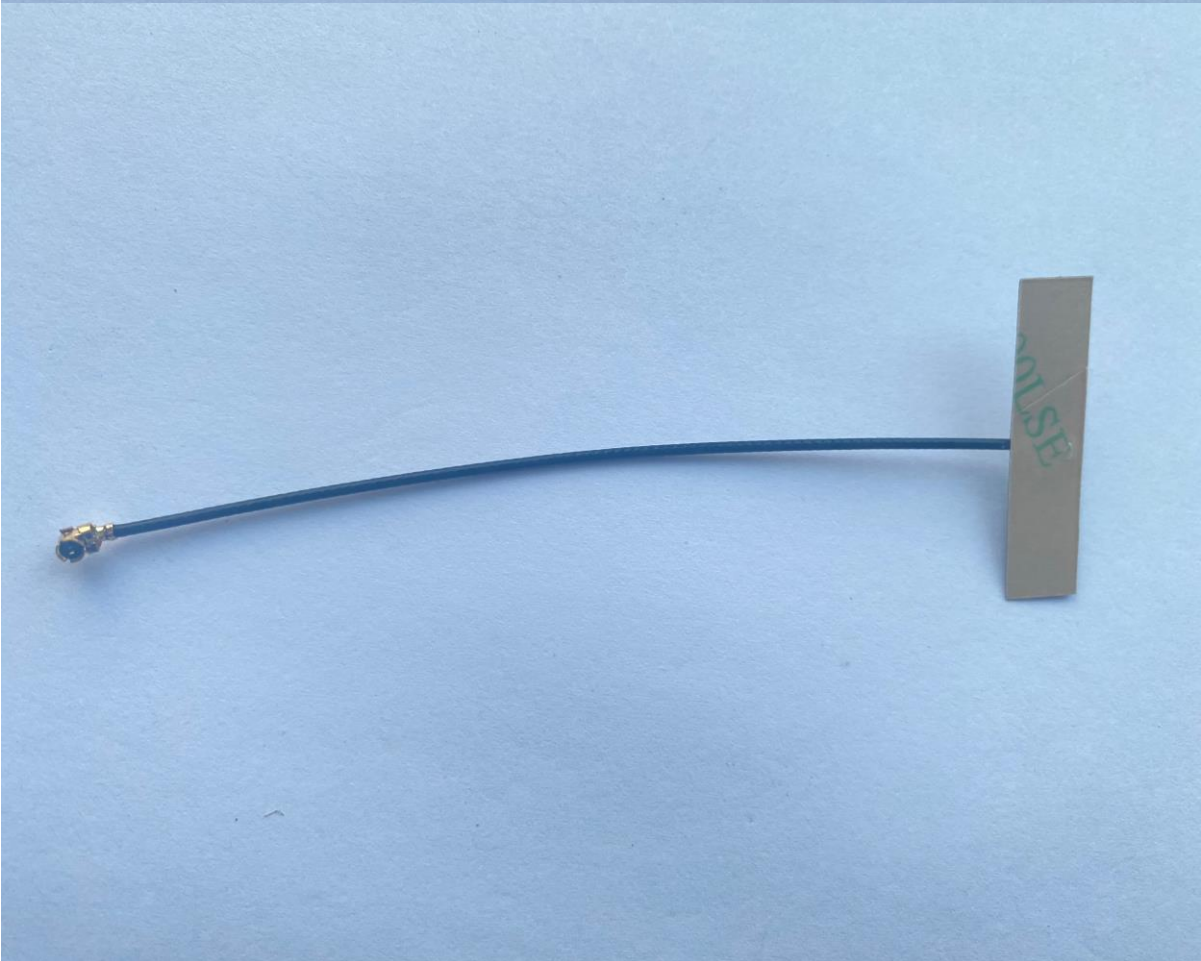
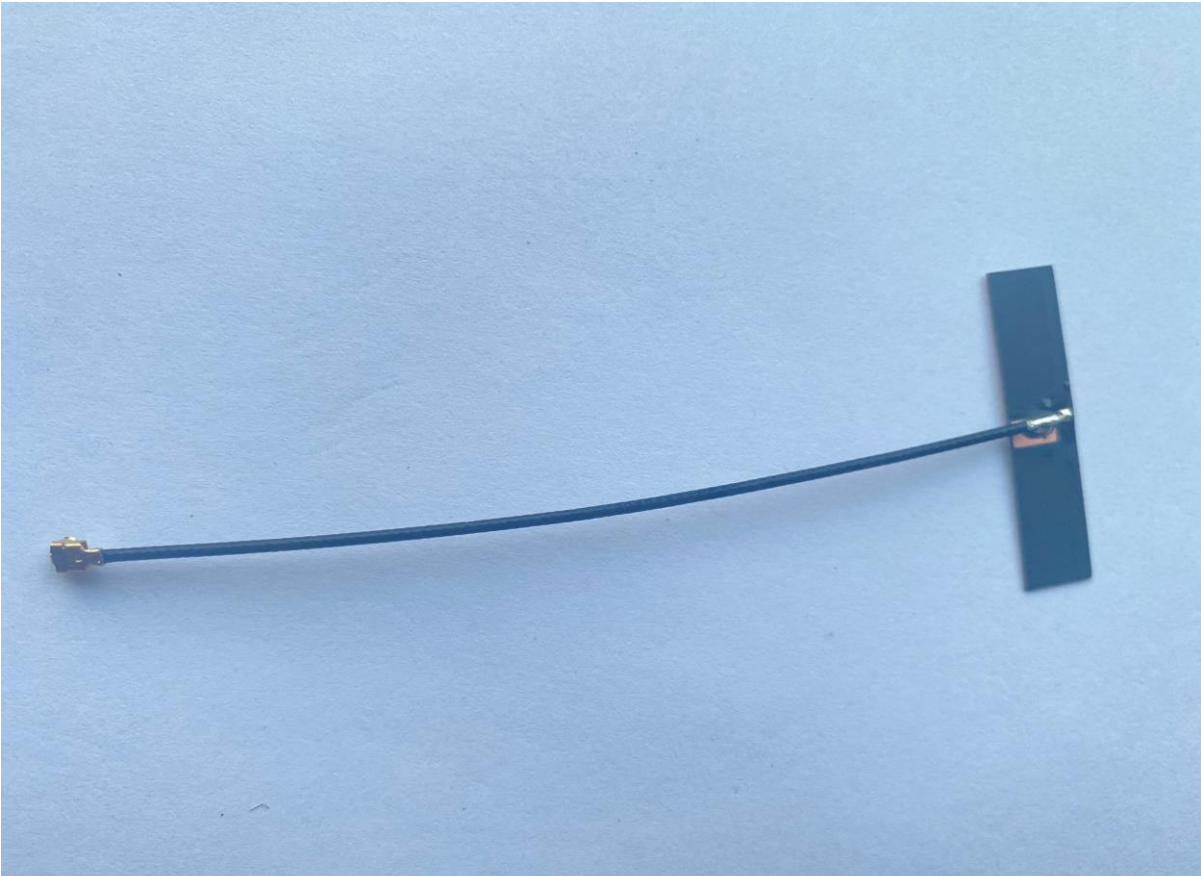
No.	PART NUMBER	PART NAME & DESCRIPTION	Q' TY	REMARKS
3	2LM10P113210	第一代 MHF FOR 1.13 CABLE	1	---
2	2YF072	FPC ANTENNA , 黑色防焊漆	1	---
1	2C5M11311BK1	OD1.13黑色银锡线-50 OHM	1	依裁线图裁线

GENERAL TOLERANCE: LINEAR: X ±1.0 X.X ±0.50 X.XX ±0.30 X.XXX ±0.10 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			
ENG/DATE: Mark/19.06.21	内置天线, 1.13, 黑色银锡线; P1端焊接FPC; P2端打一代端子; 裁线长L=104.8mm			
CHE/DATE:	P/N: 3N0401BK-011			
APP/DATE:	UNIT: mm	SCALE: 1:1	REVISION: AO	SHEET: 1/1

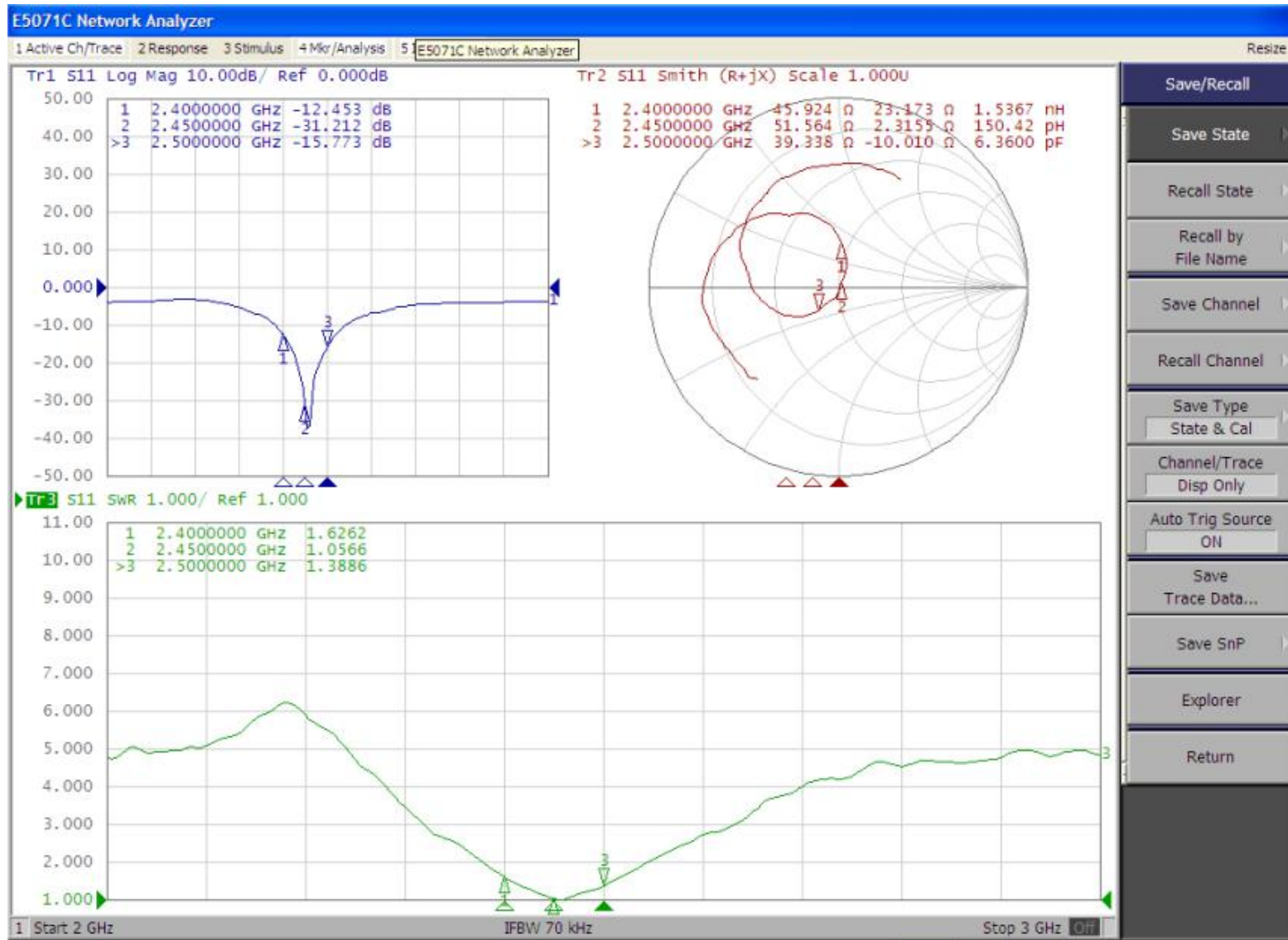
COMPLIANCE WITH THE REQUIREMENT: ■RoHS; □HF; □SONY SS-00259; □OTHERS
*NO USING ESTRICED AND BANNED SUBSTANCE

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实物照片



SWR

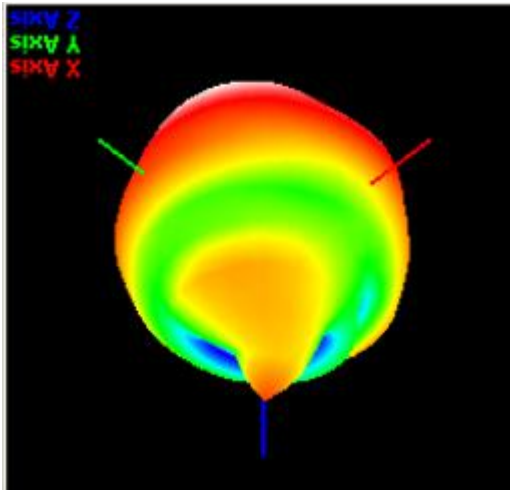


效率增益

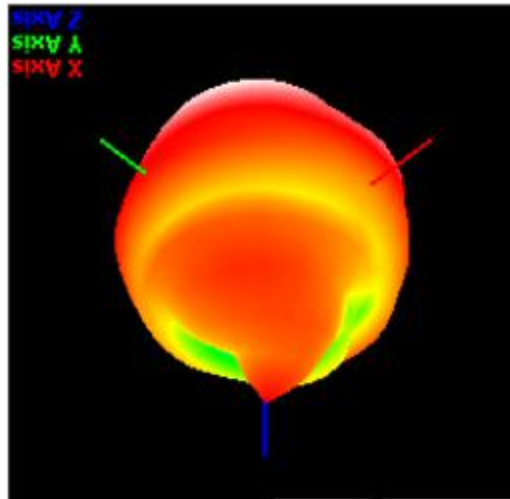
FETUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.23	-2.24	-2.15	-1.96	-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

