



东莞市皇捷通讯科技有限公司

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

3N0301BK-019

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 36.5 x 6.8mm

ustomizable Cable and Connecto



Description

3N0301BK-019 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. 3N0301BK-019 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 (%)	50
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 (32mm Standard)
Cable Type	Other Cables Available (0.81mm Standard)

Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

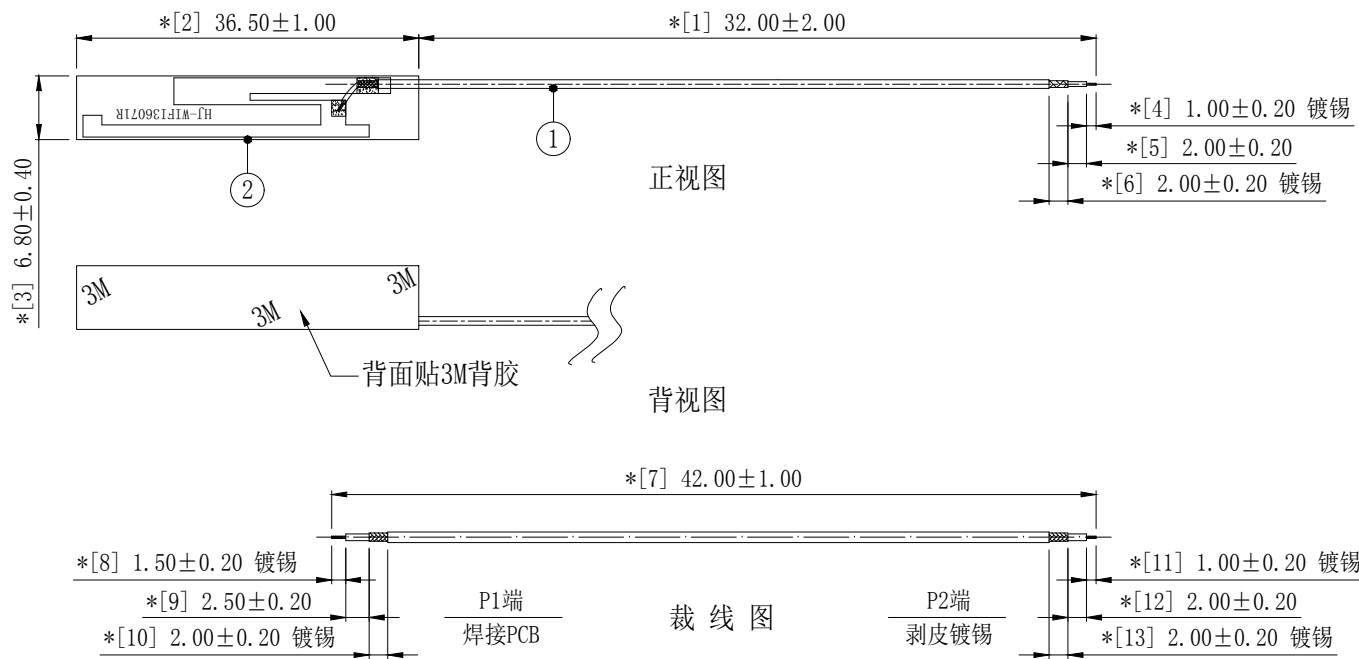
Measured in Certified CTIA 3DAnechoic Chamber



Mechanical and environmental specifications

Specifications	3N0301BK-019
Mounting Type	Self-Adhesive
Dimensions (mm)	36.5 x 6.8mm
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	18.05.02	DENGJUN.TAN



技术要求:

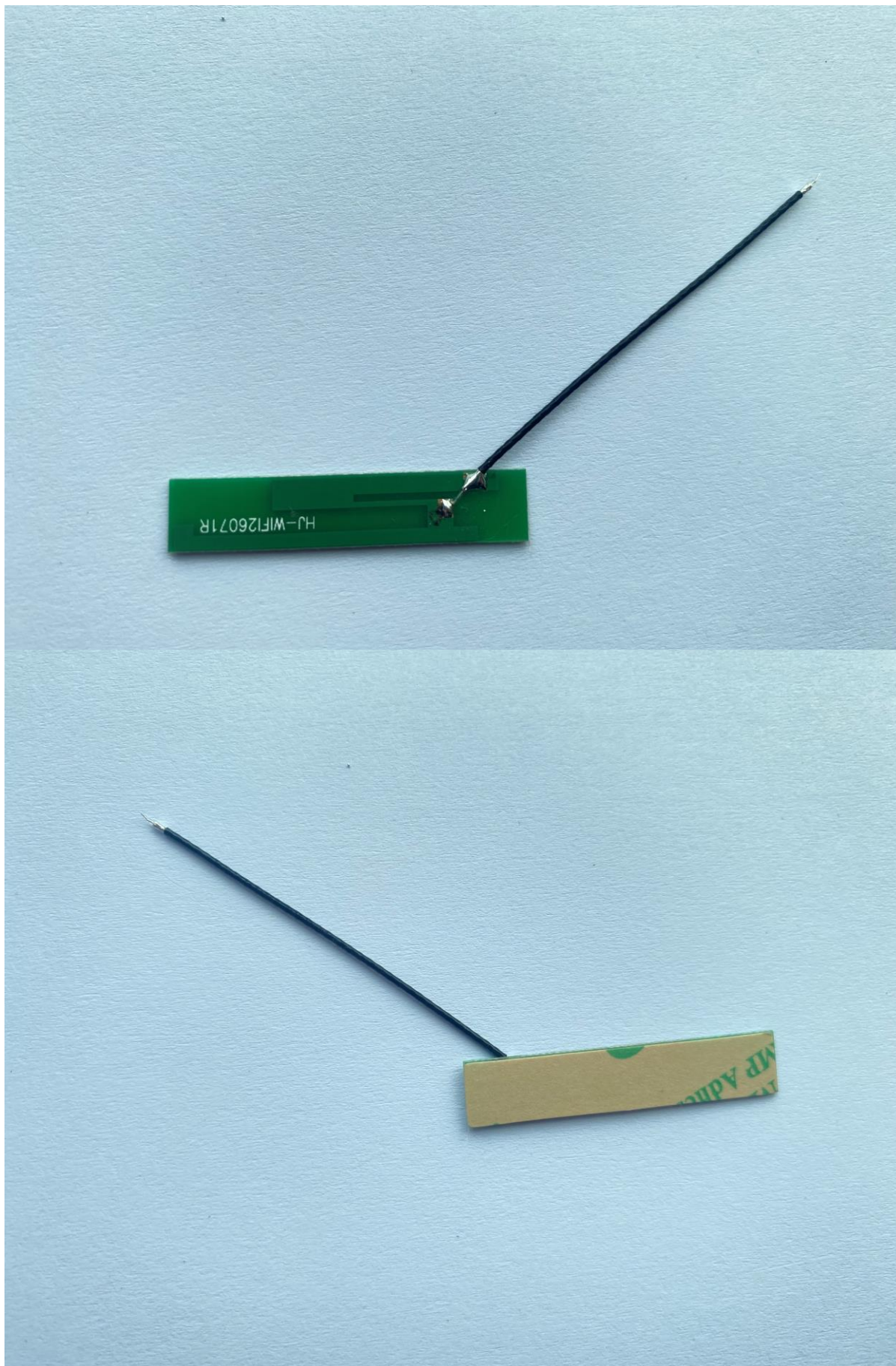
- 1 电气特性: 特性阻抗:50Ω; 频率范围:2.4GHz-2.5GHz; 驻波比:最大2.00;。
检验方法: 单测天线, 使用矢量网络分析仪100%测试。
- 2 尺寸检验: [*]为FAI检测项目; *为重点检测项目; ■为CPK管制项目。
- 3 外观检验: 电缆裁切须平整, 镀锡须光亮, 导体不得有多余股数伸出与散乱;
PCB不得有划痕、刮伤、露铜等不良, 焊接须饱满, 不得有假焊、虚焊、毛刺;
电缆外被不得有破损、折皱及异色等不良。
检验方法: 目视全检。
- 4 包装规范: 50PCS/扎, 2扎一袋。
- 5 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

2	2YP046	L36.5W6.8*T0.6mm, 背贴3M胶, 焊锡点区域镀锡	1	---
1	2C5M08111BK1	微细同轴电缆, ODO. 81, 银锡线, 黑色	1	依裁线图裁线
No.	PART NUMBER	PART NAME & DESCRIPTION	Q' TY	REMARKS
GENERAL TOLERANCE:		HJ-Tech 东莞市皇捷通讯科技有限公司		
LINEAR:				
X	±0.20	FILE NAME: 产品图		
X.X	±0.15			
X.XX	±0.05	TITLE: 射频天线组件 内置天线, 0.81黑色银锡线, P1端焊接PCB, P2端剥皮镀锡, 外露长L=32.0mm		
X.XXX	±0.01			
ANGLE:		ENG/DATE: DENGJUN.TAN/18.05.02		
X°	±4.00°	CHE/DATE:		
X.X°	±3.00°	P/N: 3N0301BK-019		
X.XX°	±2.00°	APP/DATE:		
X.XXX°	±1.00°	UNIT: mm	SCALE: 1:1	REVISION: A0
		SHEET: 1/1		

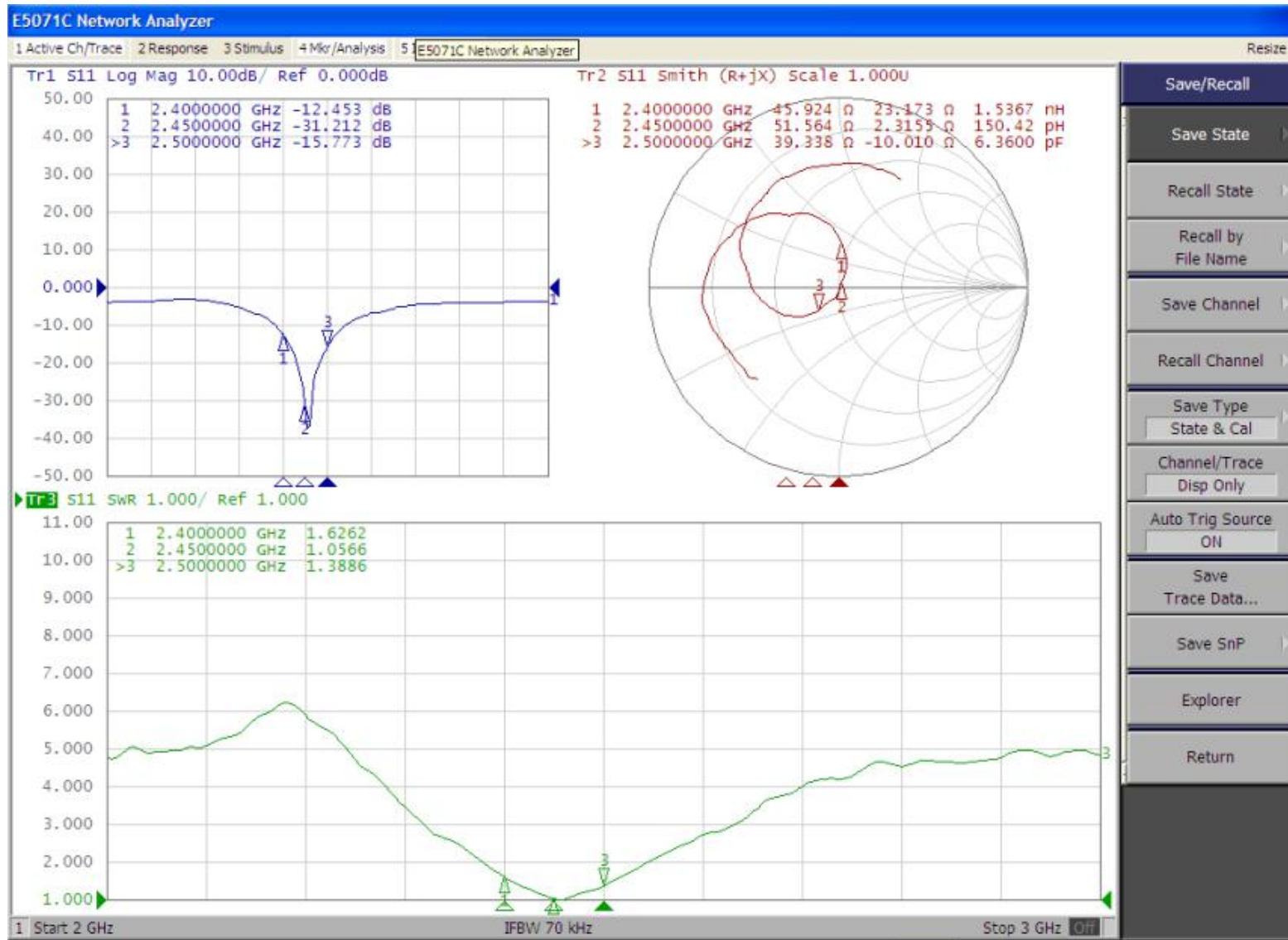
COMPLIANCE WITH THE REQUIREMENT: RoHS; HF; SONY SS-00259; OTHERS
*NO USING ESTRICED AND BANNED SUBSTANCE

H372

实物照片



SWR

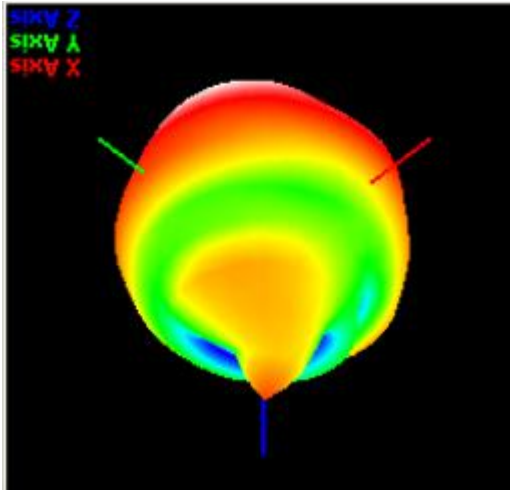


效率增益

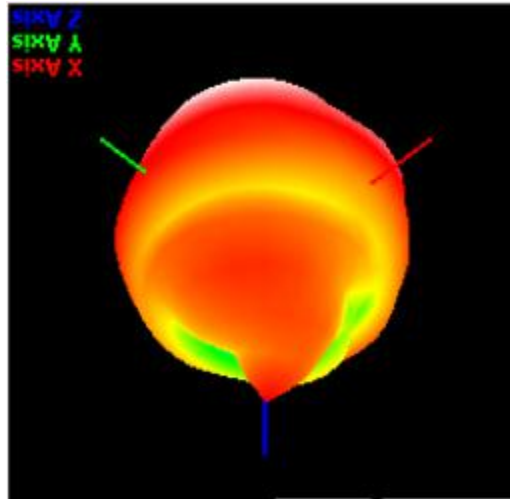
FETUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.23	-2.24	-2.15	-1.96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

