



东莞市皇捷通讯科技有限公司

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

3N0301LG-018

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 31.4 x 7.4mm

ustomizable Cable and Connecto



Description

3N0301LG-018 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. 3N0301LG-018 is omnidirectional, ground plane independent antenna. Cable and connector is upon request.

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地址:广东省东莞市寮步镇泉塘大岷地工业区

网址:www.iphone-line.com

电话:0769-83328111

FAX:83327688





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)	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 (115.5mm Standard)
Cable Type	Other Cables Available (1.13mm Standard)

Antenna Measurement Conditions:

Mounted 40x10x0.3 Cm ABS Plastic Plate

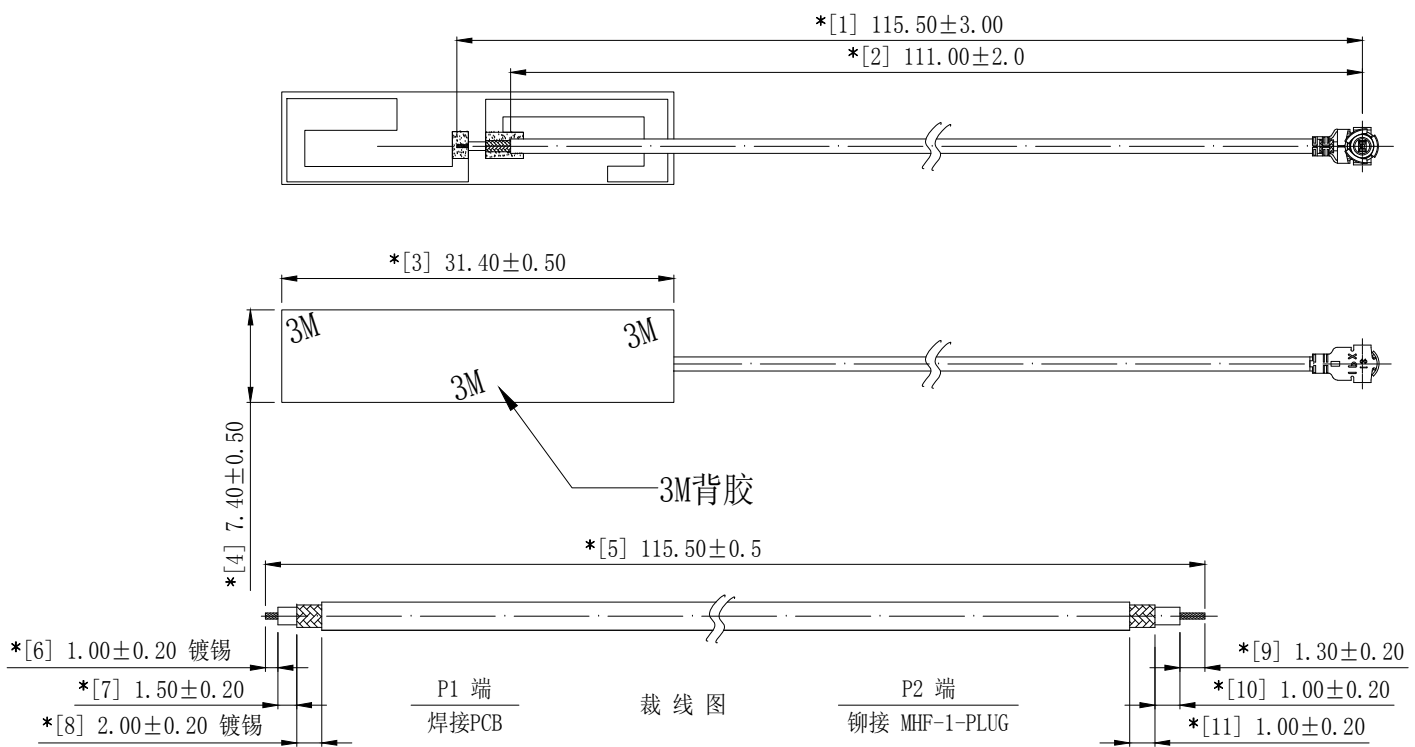
Measured in Certified CTIA 3DAnechoic Chamber



Mechanical and environmental specifications

Specifications	3N0301LG-018
Mounting Type	Self-Adhesive
Dimensions (mm)	31.4 x 7.4mm
Adhesive Type	3M
Material	Flexible Polymer
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

6	7	8
REVISION	DESCRIPTION	DATE
A0	FIRST RELEASE	18. 04. 27
		DRAFTER
		DENGJUN. TAN



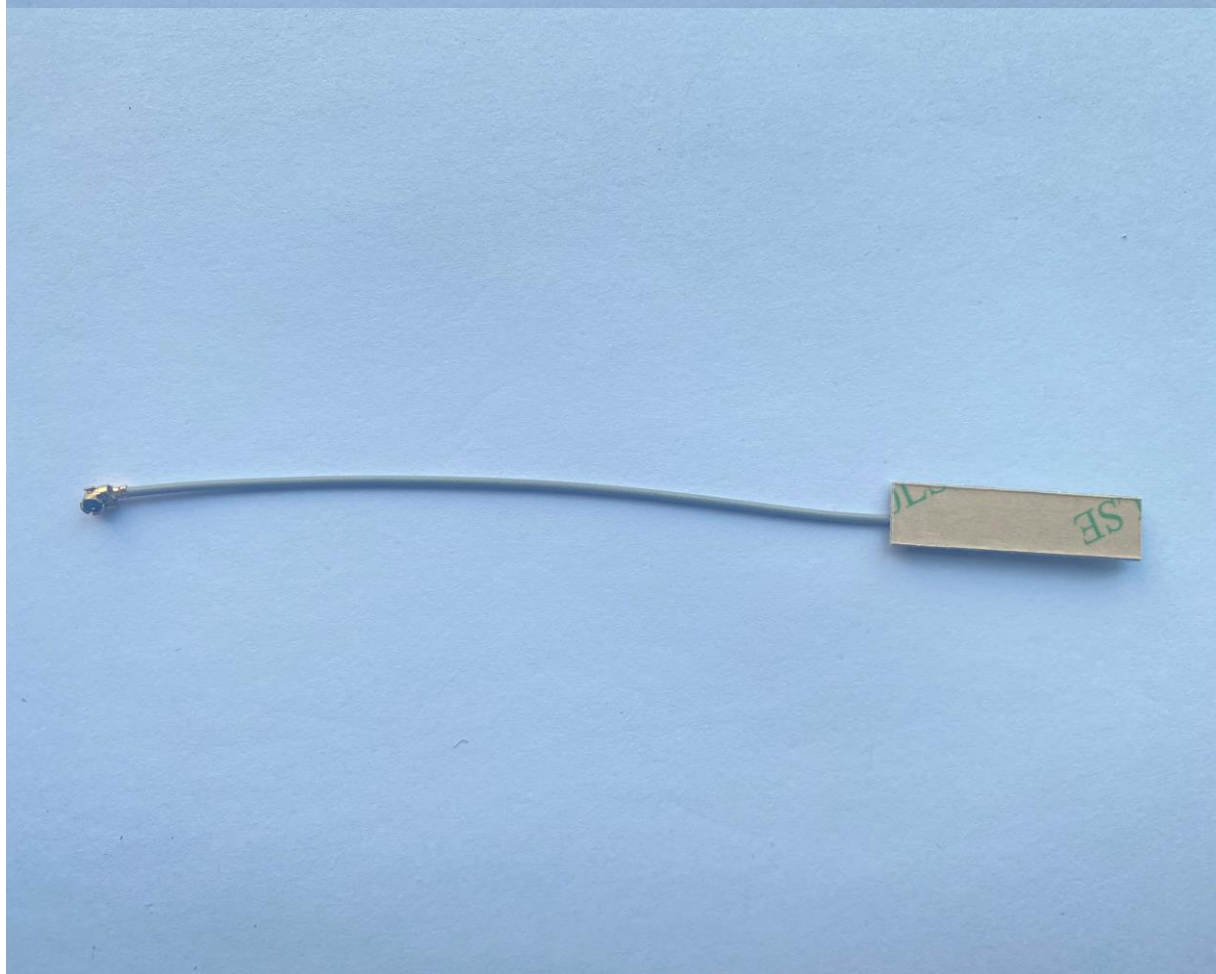
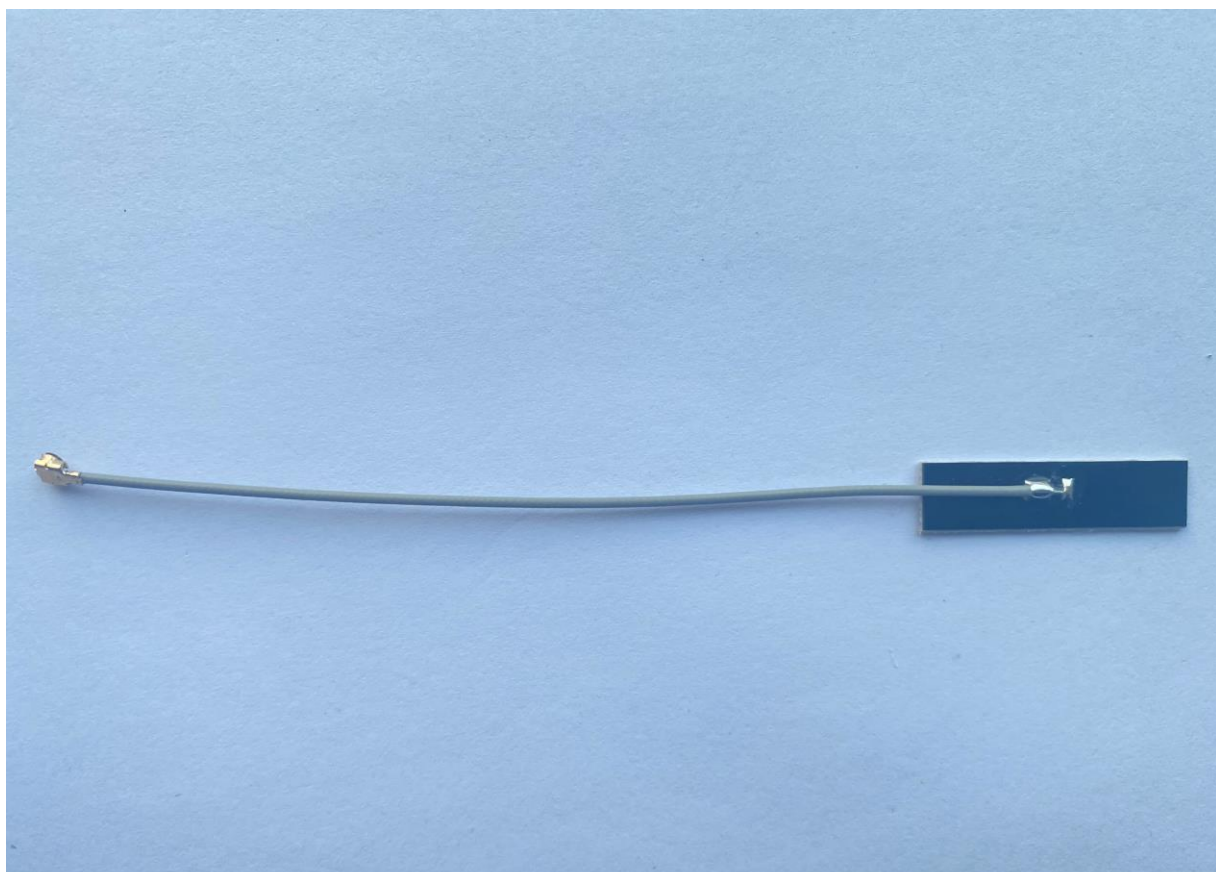
- 技术要求:
- 电气特性: 特性阻抗:50Ω; 适用频率范围:2.4Hz-2.5GHz, 驻波比:最大2.0; 增益:峰值增益3dB_i.
检验方法: 使用矢量网络分析仪100%测试。
 - 尺寸检验: [*]为FAI检测项目; *为重点检测项目; ■为CPK管制项目。
 - 外观要求: 产品表面不得有刮伤、破损和脏污; 镀层色泽光亮均匀, 不得有氧化。
检验方法: 目视全检验。
 - 包装规范: 25PCS/扎, 4扎/包, 即100PCS/包。
 - 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

3	2LM10P113210	MHF-1-PLUG FOR OD1.13 CABLE	1	---
2	2YP047	L31.4*W7.4*TO.8, 材质FR-4,	1	---
1	2C5M11312LG1	微细同轴电缆, OD1.13, 浅灰双锡线	1	---
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:		FILE NAME:	TITLE:	
X	±0.20	产品图	射频频天线组件	
X.X	±0.15	ENG/DATE:	1.13浅灰双锡线, P1端接PCB, P2端打一代端子,	
X.XX	±0.05	DENGJUN. TAN/18.04.27	裁线长115.50mm (3dB 2.4-2.5GHz)	
X.XXX	±0.01	CHE/DATE:	P/N:	3N0301LG-018
ANGLE:		APP/DATE:	UNIT:	SCALE:
X°	±4.00°		mm	1:1
X.X°	±3.00°			REVISION:
X.XX°	±2.00°			A0
X.XXX°	±1.00°			SHEET:
				1/1

COMPLIANCE WITH THE REQUIREMENT: RoHS; HF; SONY SS-00259; OTHERS H410
*NO USING ESTRICED AND BANNED SUBSTANCE

实物照片



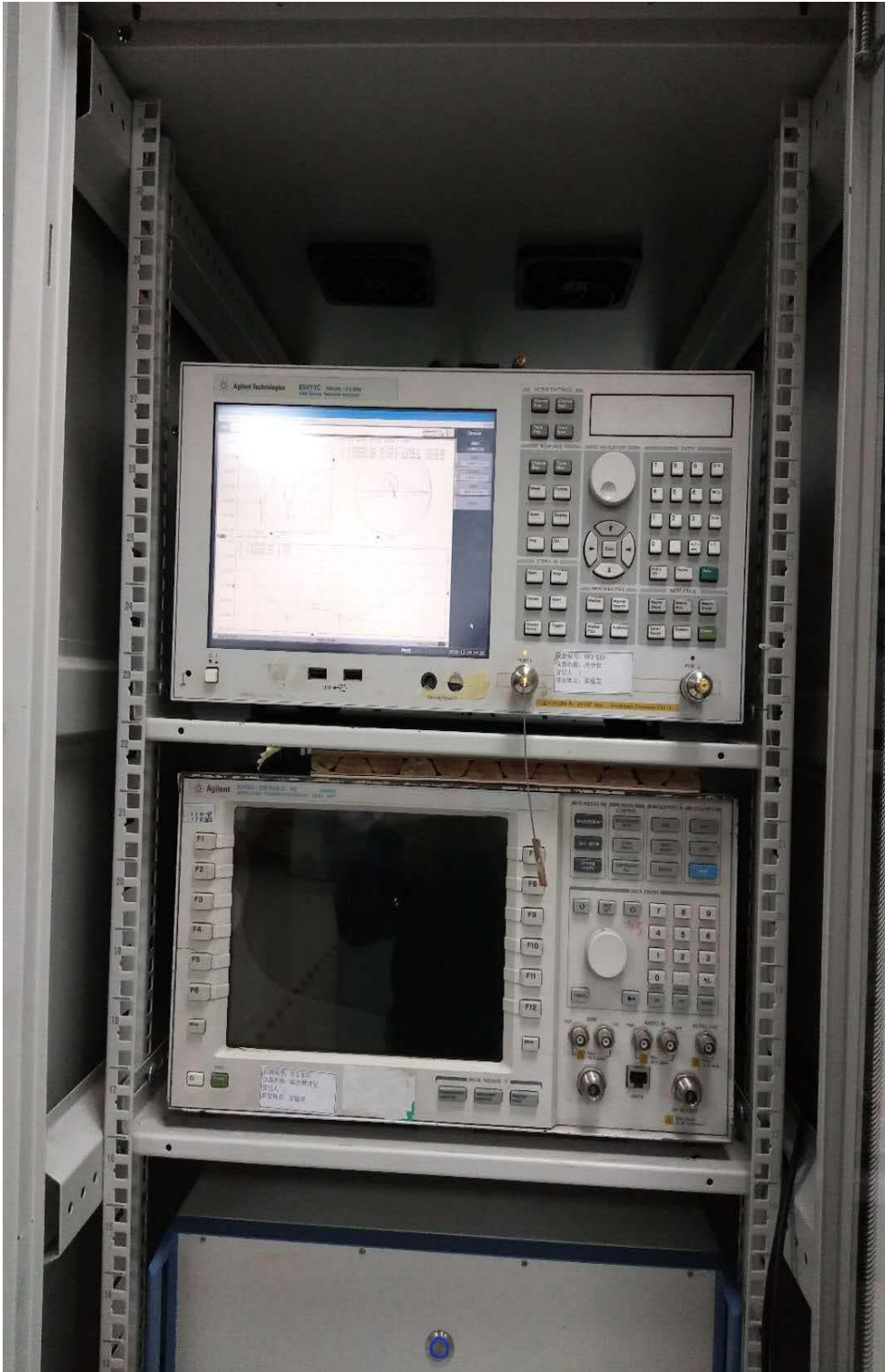
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电气特性测试报告

——网络分析仪测试

1 测试图示

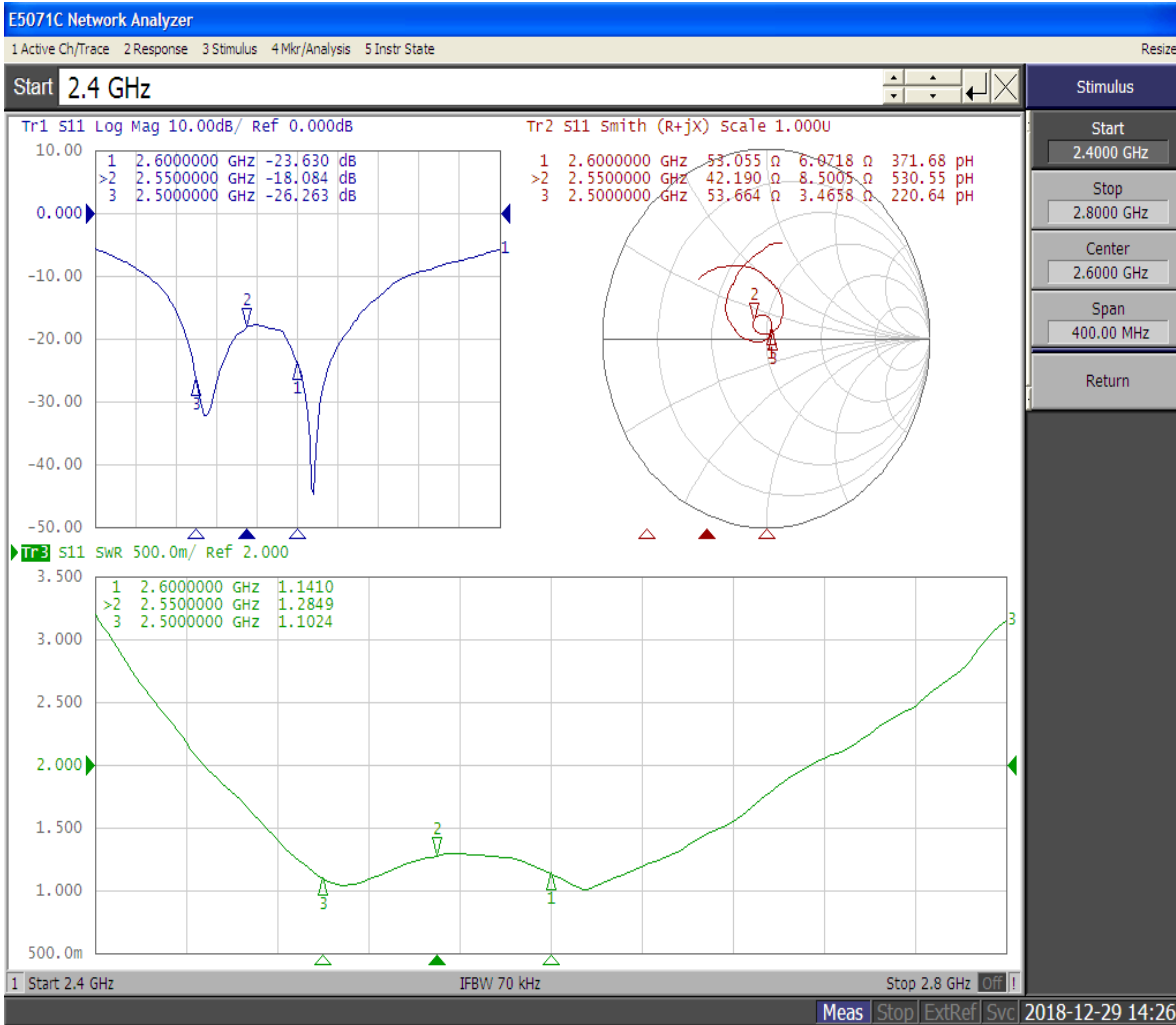


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2 测试报告

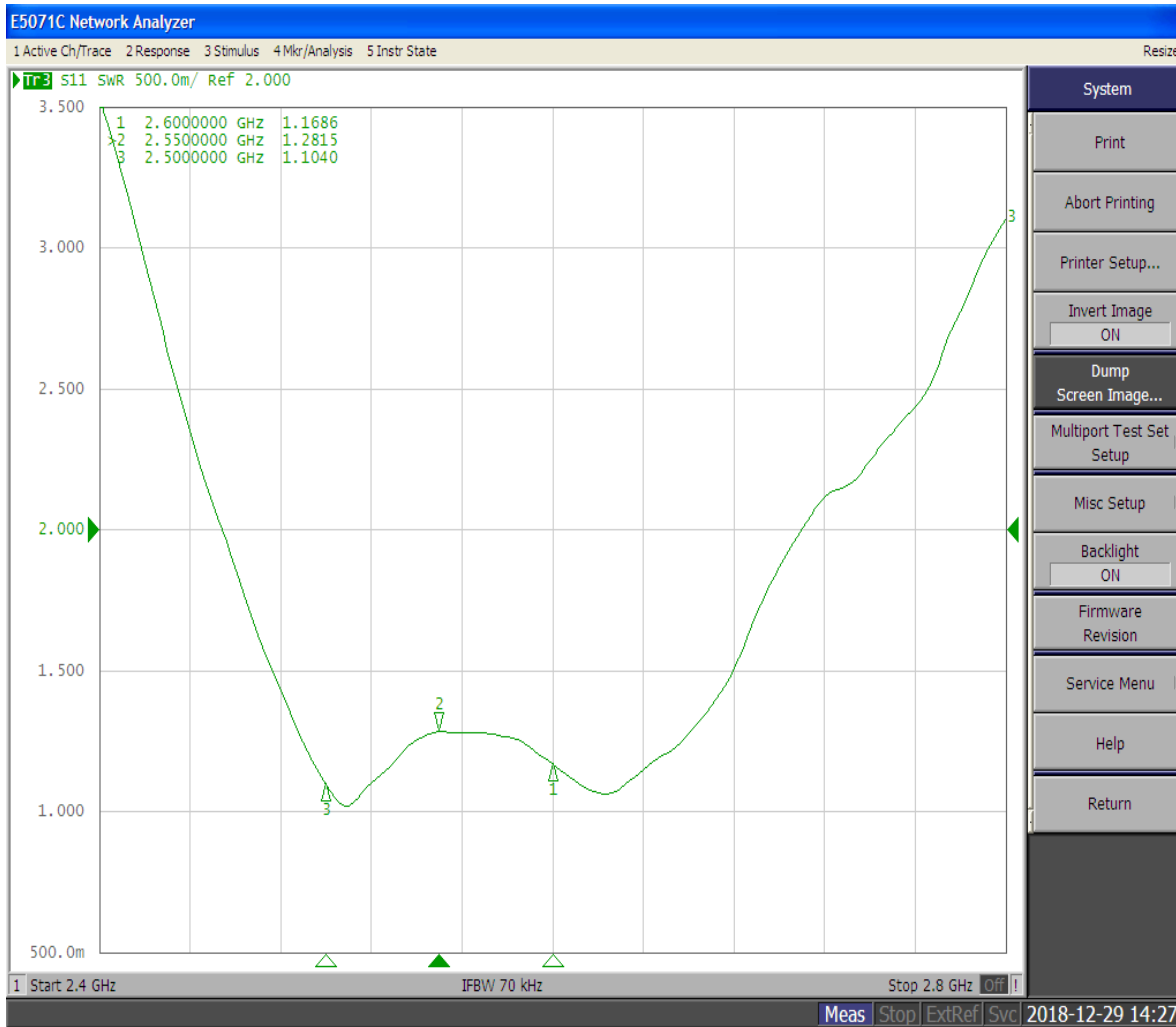


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3 测试报告-VSWR

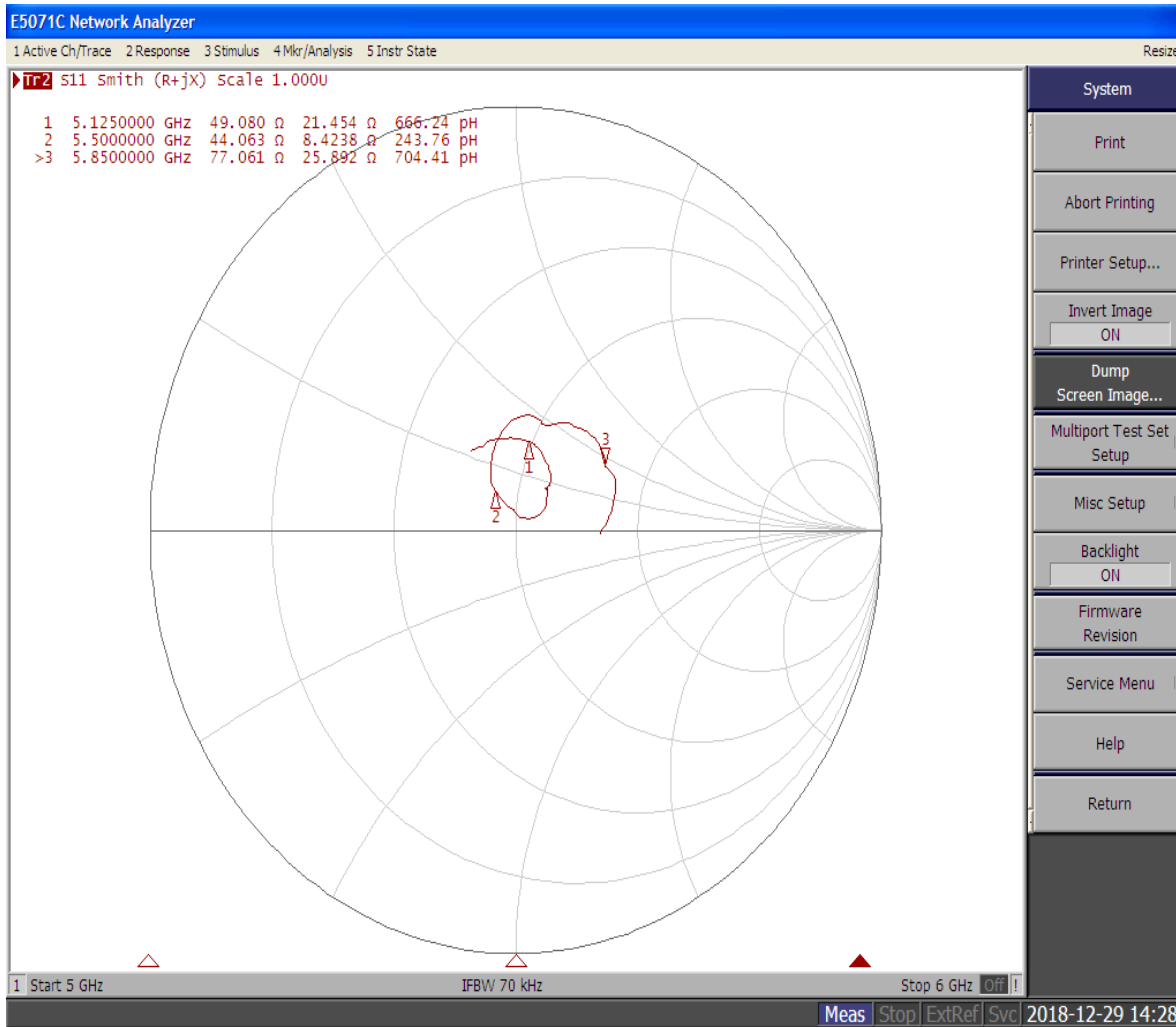


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4 测试报告-SMITH CHART



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5 测试报告-RETURN LOSS

