

产品规格书说明书

Product Specification

客户名称

Customer : Actions Microelectronics Co., Ltd.

产品名称

Product Description: 2.4G/5G WIFI Antena

艾尔瑞料号

Aerri Part NO.: A-296-001p1

型号名称

Model name: PCB_ANT_524_003

版本

Version: V1.0

日期

Date: 2017.12.14

	供应商确认 Manufacturer Signature	客户确认 Customer Signature
Approved by:	么大恒	
Date:	2017.12.14	

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版本 Revised History

Date	Version	Revised Record
2017.12.14	v1.0	

规格表 Antenna Specification

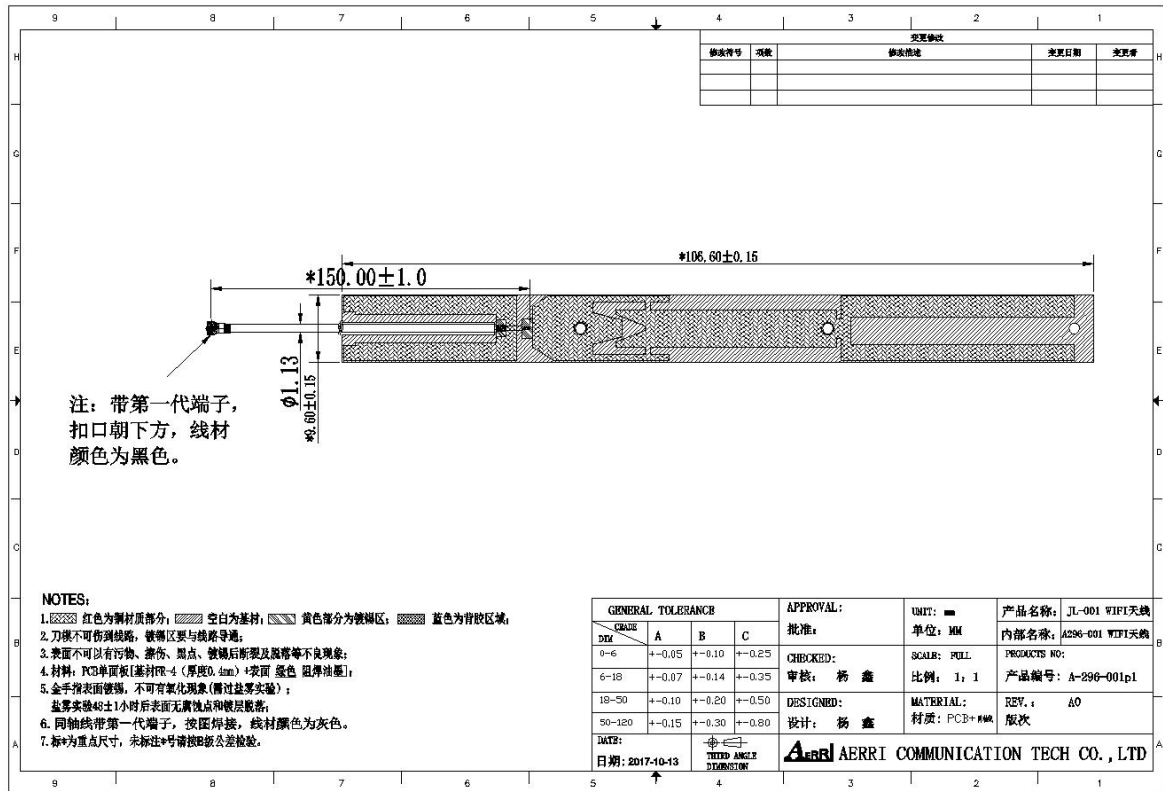
电气特性 Electrical Properties

功能 Function	2.4/5G WIFI 天线
频率范围 Frequency range (GHz)	2.4-2.5 ;5.1-5.85
VSWR	≦ 2.0
增益 (Peak) (dBi)	3.29dBi@2.4g; 4.42dBi@5g
输入阻抗 Input impedance (Ω)	50
极化方式 Polarization	linearity
天线形式 Antenna type	PIFA

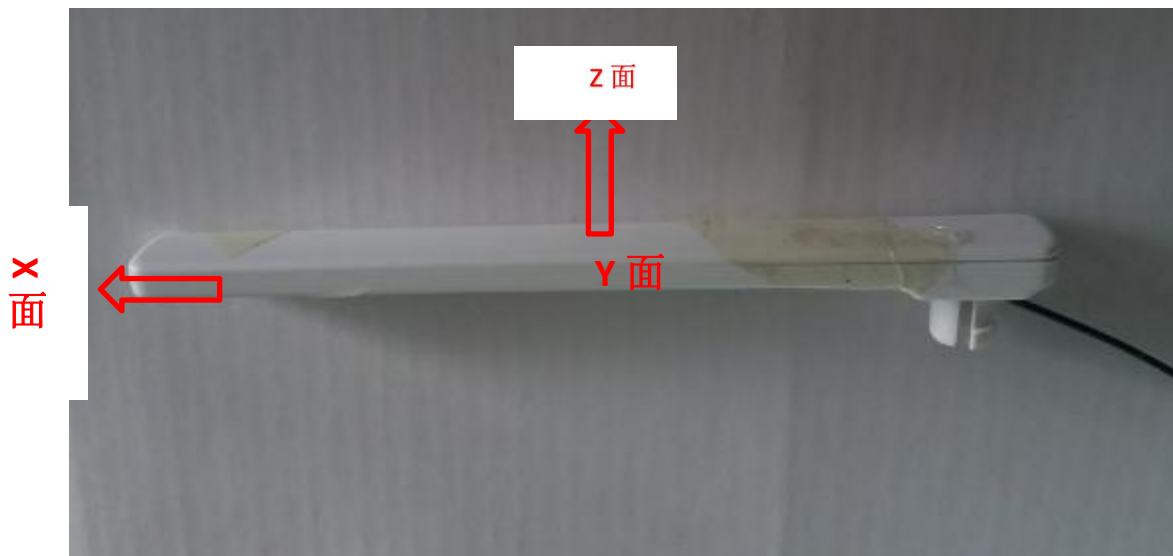
物理特性 Physical Properties

功能 Function	2.4/5G WIFI Antena
天线尺寸 Antenna size	2.4/ 5G WiFi: 106.6*9.6*0.4mm;
天线材质 Antenna material	PCB+Coaxial line;
天线颜色 Antenna color	Black
电缆类型 Cable type	RF1.13 Coaxial line,Black,L=150.0mm
连接器型号 Connector type	IPEX1.0
工作温度 Operating temperature	-40°C-65°C
存储温度 Storage temperature	-40°C-80°C

成品图 Antenna Assembly (2.4-5G)


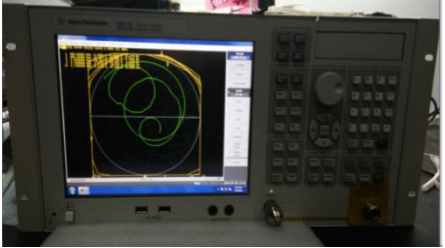


产品图 Product Photo

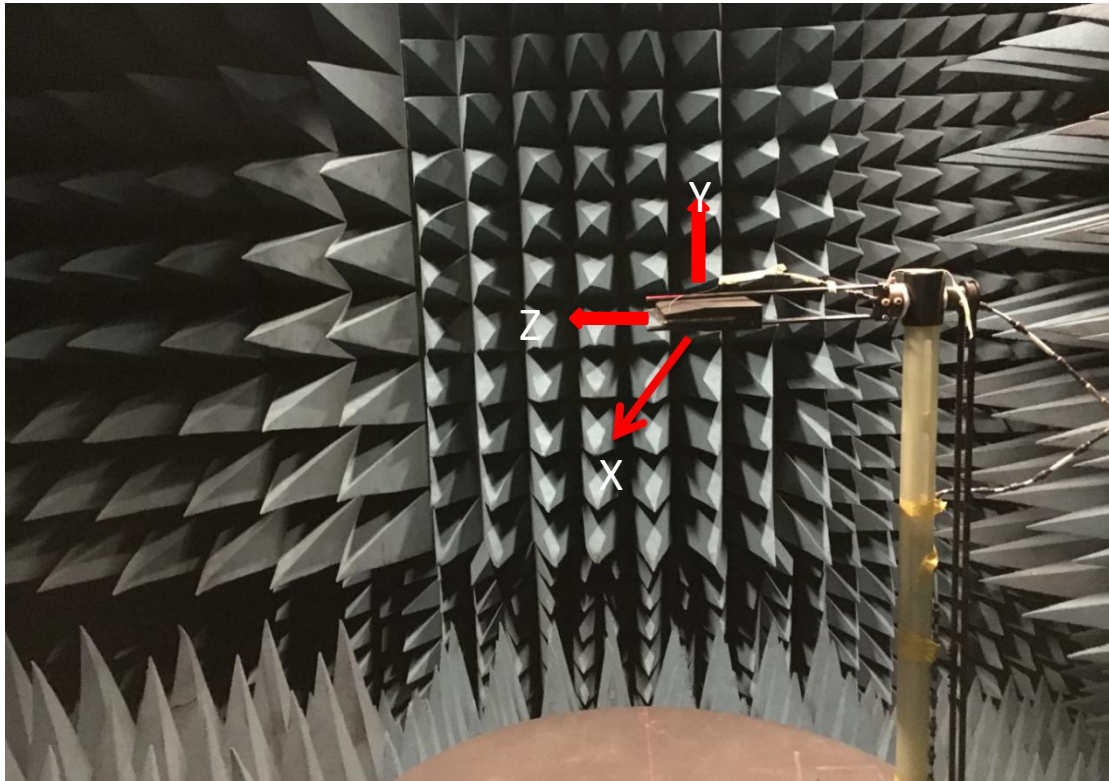


测试报告 Test Report

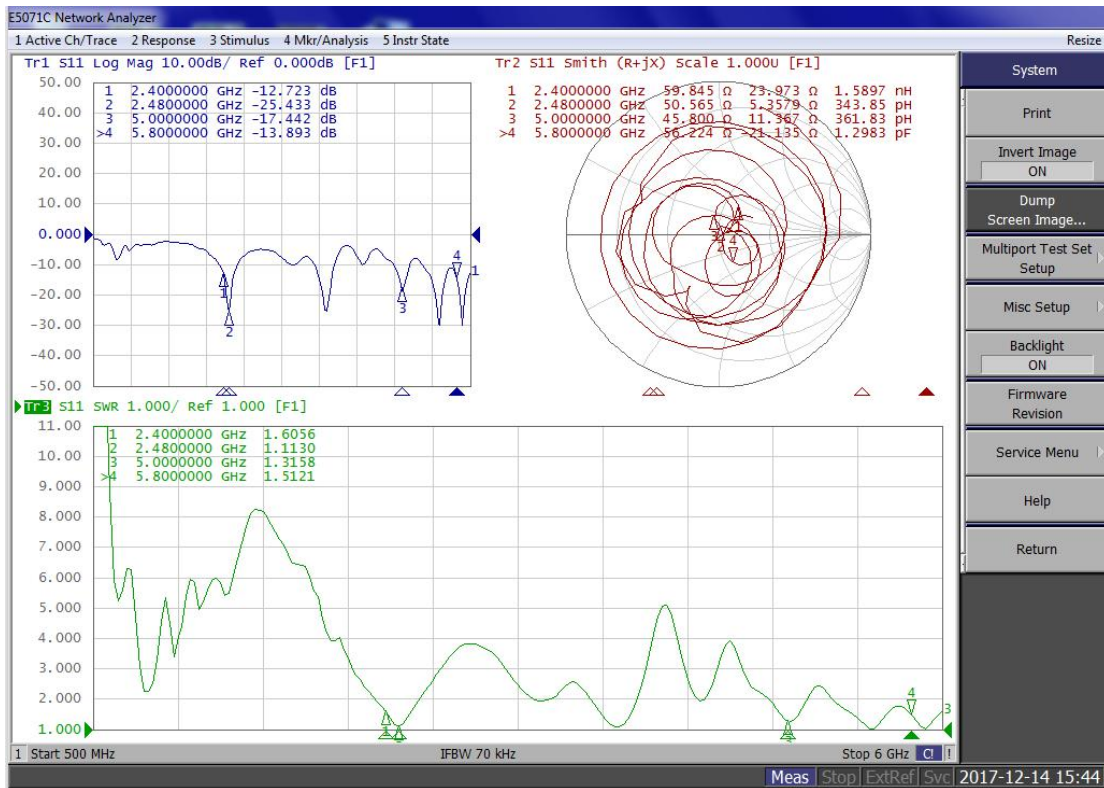
测试设备 Test equipment

序号 number	name	设备图片 Equipment picture	Index	Environment
1	Atenlab 3D 微波暗室		Passiv performance	There are no large metal objects around, and the room temperature is usually wet
2	Agilent E5071C 网络分析仪			

测试环境 Test environment



Return Loss/VSWR/Smith chart (2.4-5G)



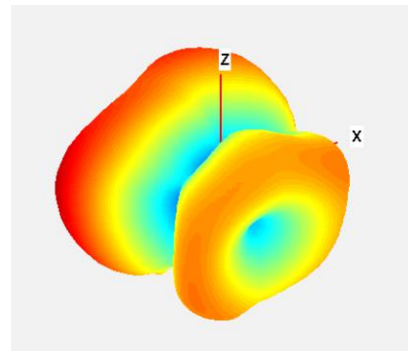
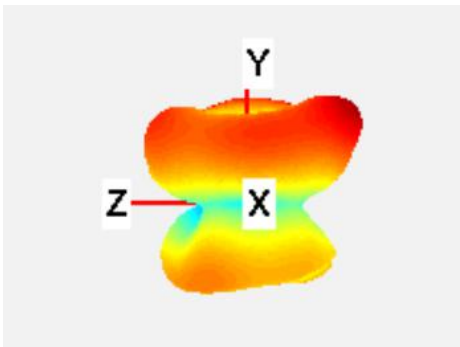
频率 (GHZ)	2.4	2.48	5	5.8
Return loss(dB)	-12.72	-25.43	-17.44	-13.89

VSWR	1.60	1.11	1.31	1.51
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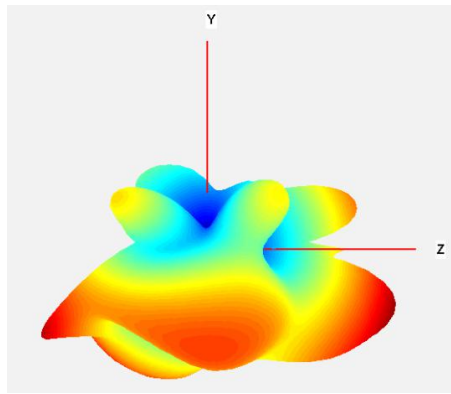
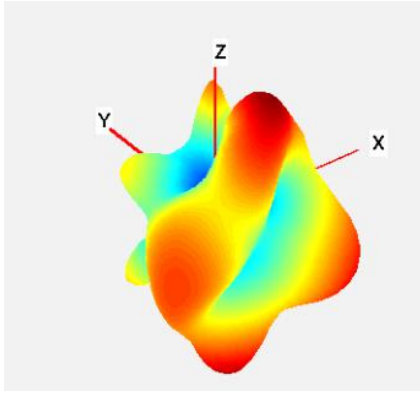
Antenna gain/Efficiency

Frequency(MHz)	2.4	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48
Efficiency(%)	82.04	81.85	80.91	80.35	79.62	78.7	77.62	77.27	78.34
Peak Gain(dBi)	3.29	3.28	3.1	3.1	3.12	3.13	3.05	3.04	3
Frequency(MHz)	5	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8
Efficiency(%)	63.39	43.45	25.64	34.04	21.63	40.64	43.95	41.02	46.34
Peak Gain(dBi)	4.42	2.78	0.51	1.07	-0.84	3.05	2.83	2.33	2.83

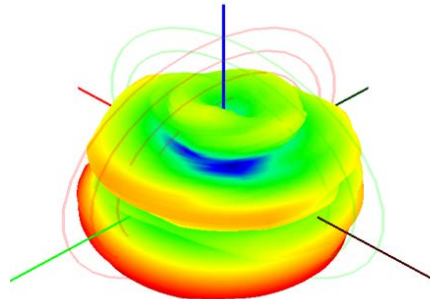
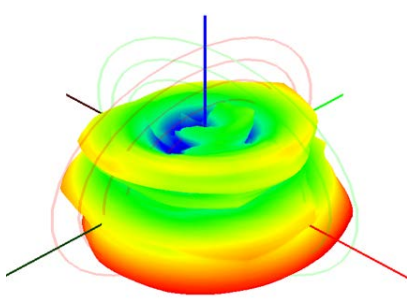
(2.4-5G) Radiation pattern:



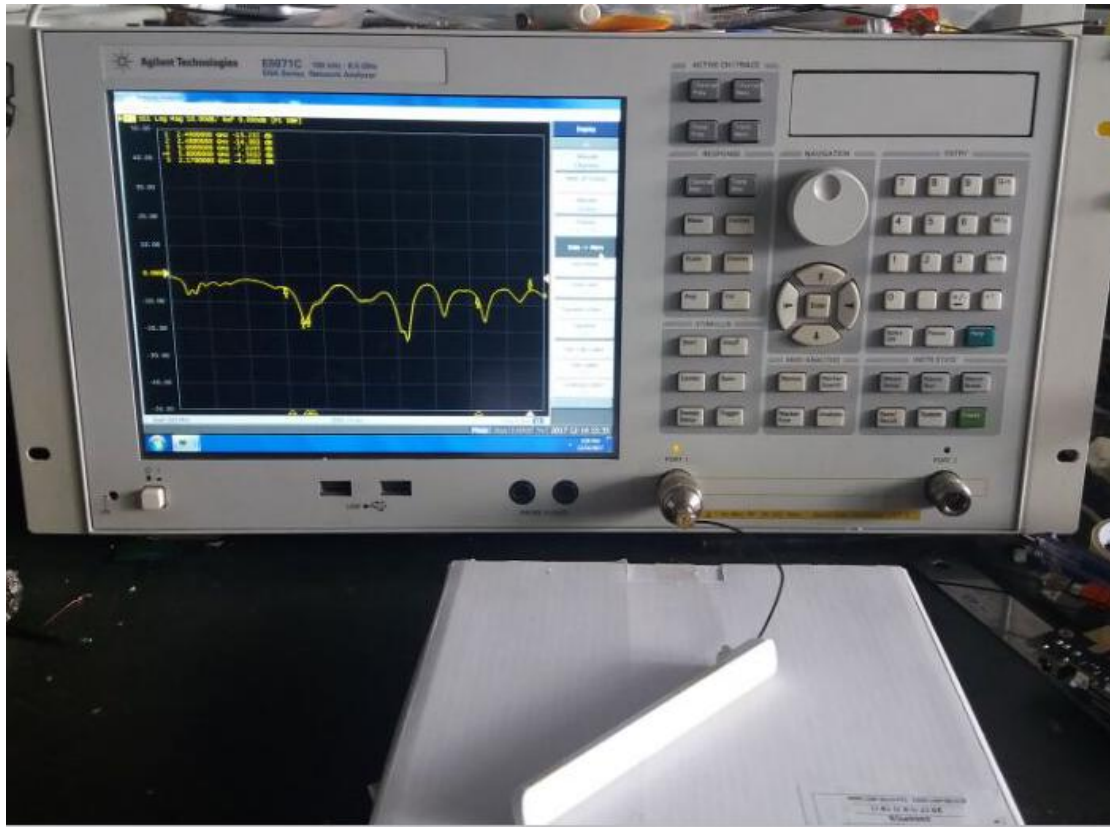
2400MHZ



2500MHZ



5G



Serial	Product name	pecification
1	WIFI PCB	106.6*9.6*0.4mm, FR4, black, quantity: 2pcs
2	Coaxial line	RF1.13 ,black, 150.0mm, quantity: 2pcs