

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: JL-001 2.4G BT Antena

艾尔瑞料号

Aerri Part NO.: A-296-001p2

型号名称

Model name: PCB_ANT_240_004

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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SHENZHEN AERRI COMMUNICATION TECH CO., LTD.

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版本 Revised History

Date	Version	Revised Record
2017.12.14	v1.0	

规格表 Antenna Specification

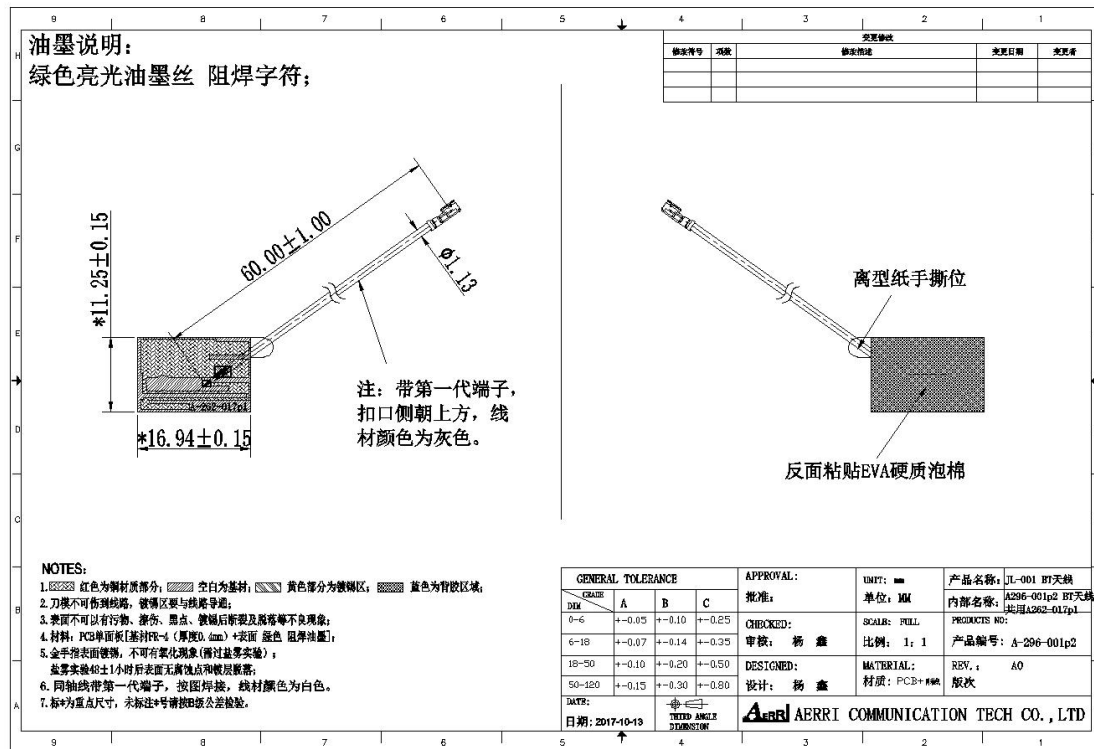
电气特性 Electrical Properties

功能 Function	BT Antena
频率范围 Frequency range (GHz)	2.4-2.5 ;
VSWR	≤2.0
增益 (Peak) (dBi)	3.05dBi@2.4g;
输入阻抗 Input impedance (Ω)	50
极化方式 Polarization	inearity
天线形式 Antenna type	PIFA

物理特性 Physical Properties

功能 Function	BT Antena
天线尺寸 Antenna size	WiFi: 16.94*11.25MM
天线材质 Antenna material	PCB+Coaxial line
天线颜色 Antenna color	Green and gray
电缆类型 Cable type	RF1.13 gray, WiFi: L=60.0mm
连接器型号 Connector type	IPEX
工作温度 Operating temperature	-40℃-65℃
存储温度 Storage temperature	-40℃-80℃

成品图 Antenna Assembly

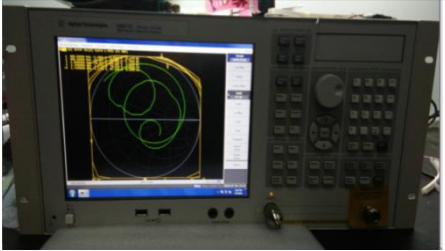


产品位置图Product location map

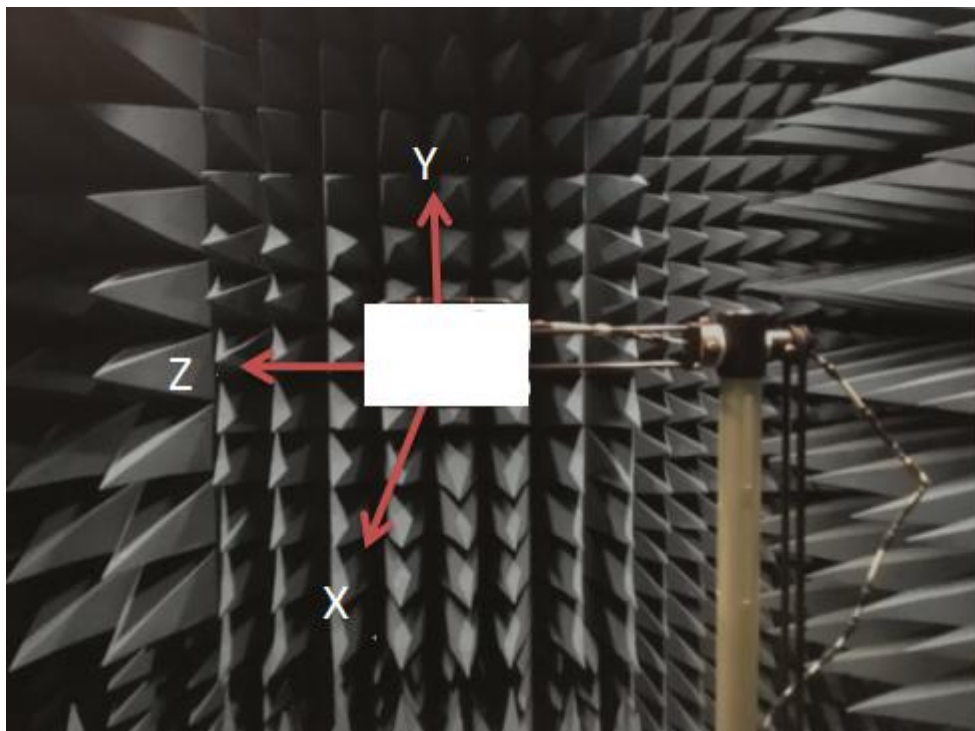


测试报告 Test Report

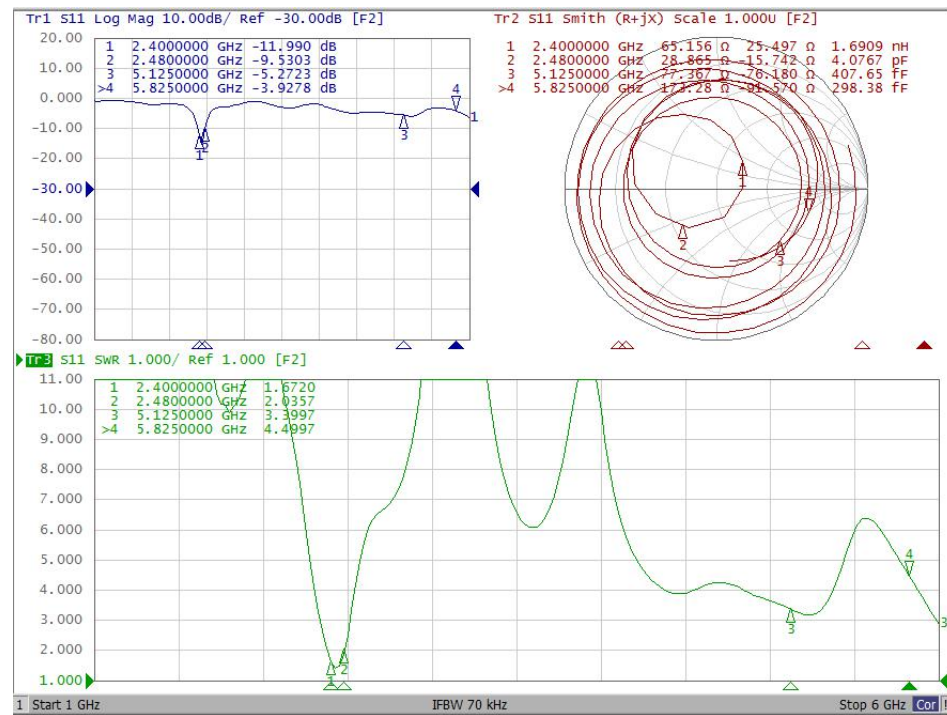
测试设备Test equipment

序号number	设备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

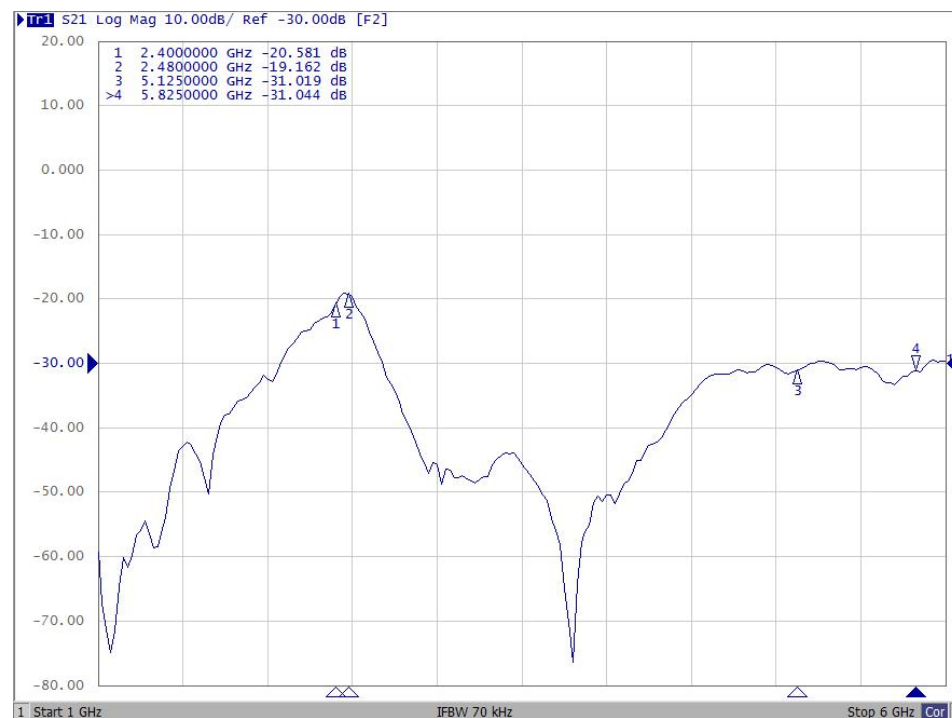


Return Loss/VSWR/Smith chart



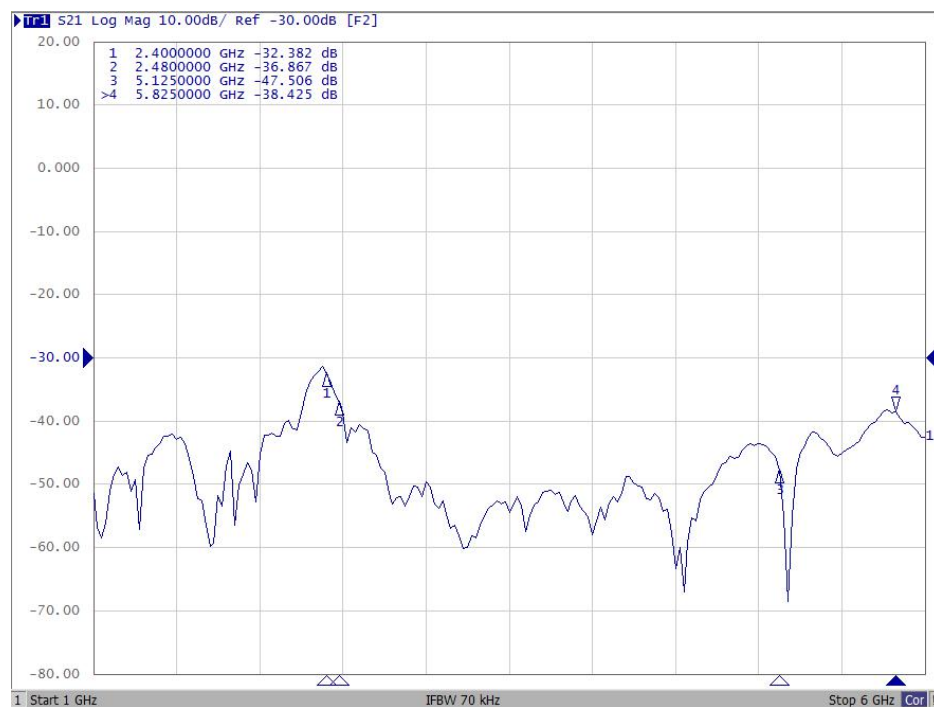
频率 (GHZ)	2.4	2.48
Return loss(dB)	-11.99	-9.53
VSWR	1.67	2.03

S21(BT/WIFI-1)



频率 (GHZ)	2.4	2.48	5.12	5.82
S21(dB)	-20.581	-19.162	-31.01	-31.04

S21(BT/WIFI)

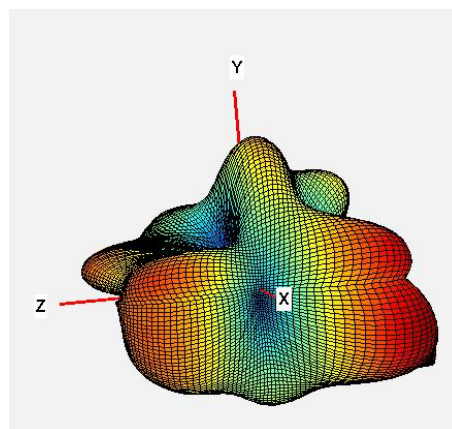
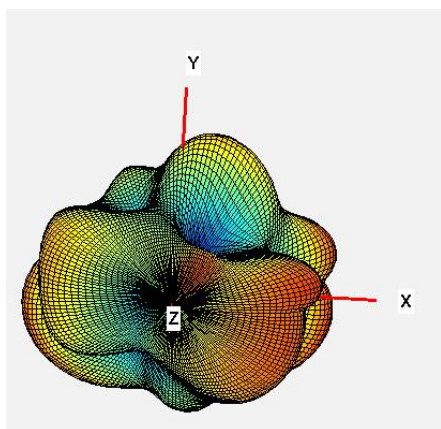


频率 (GHZ)	2.4	2.48	5.12	5.82
S21(dB)	-32.38	-36.86	-47.506	-38.42

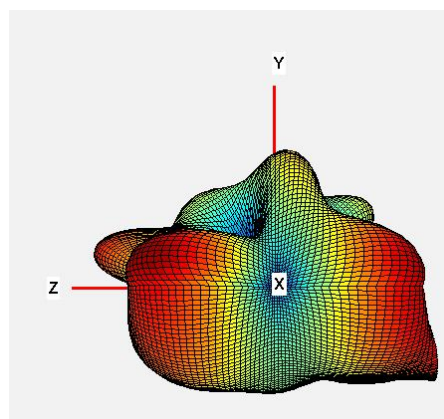
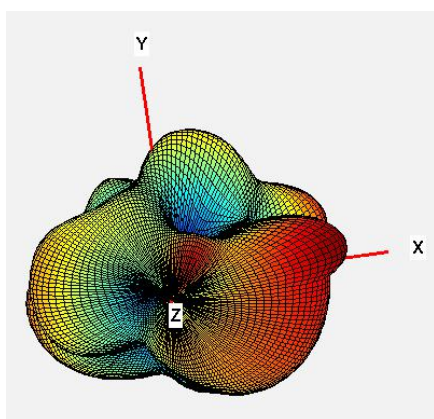
Antenna gain/Efficiency

Frequency	Efficiency	Efficiency	Peak Gain
(MHz)	(%)	(dB)	(dBi)
2400	48.53	-3.14	2.93
2450	46.99	-3.28	3.05
2500	38.82	-4.11	1.67

Radiation pattern:



2400MHZ



2480MHZ

BOM List

Serial	Product name	pecification
1	BT Antena	16.94*11.25MM, Green, FR-4, 0.4mm quantity: 1pcs
2	BT Coaxial line	RF1.13 Gray, 60.0mm, IPEX 1.0 quantity: 1pcs
3	EVA Foam	16.94*11.25MM, EVA Foam, 0.7mm quantity: 1pcs