

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME: 九安光电

产 品 名 称

PRODUCT NAME: 2.4G 3DBI SMA 天线

客 户 料 号

CUSTOMER P/N:

仁 丰 料 号

Ren Feng P/N: RF21S00165A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	吴玉鸣	
AUDITOR BY:	牛玉伟	
APPROVED BY:	姚定军	
DATE:	2014-10-20	

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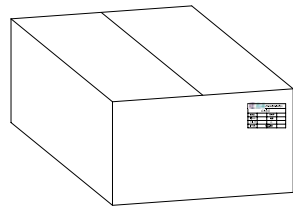
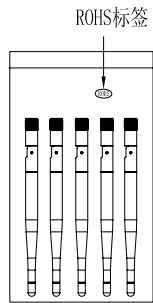
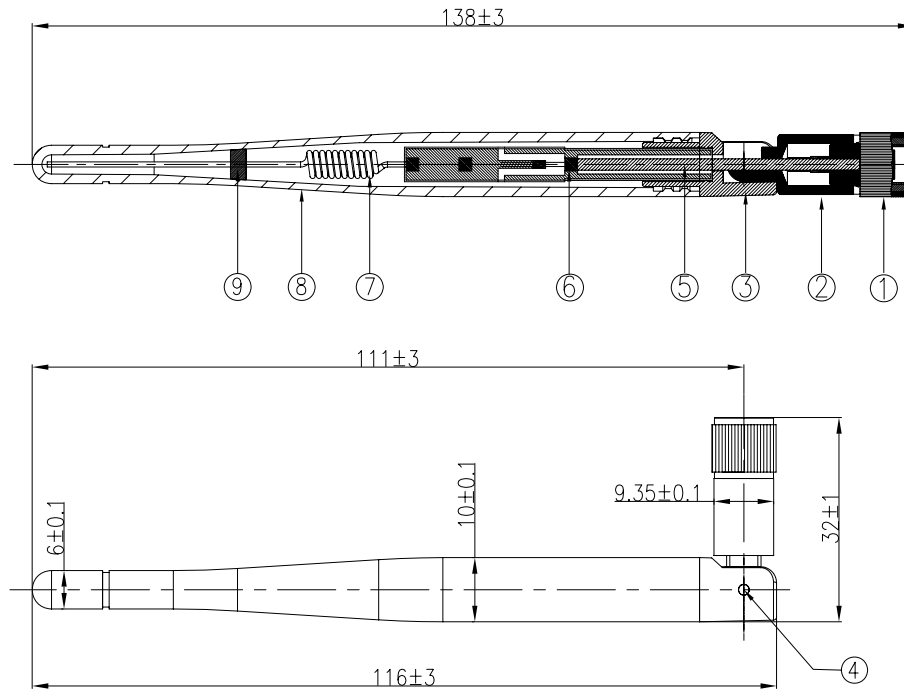


规格表:

产品主要技术参数

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400~2500 5000~6000	Frequency Range (MHZ)	2400~2500 5000~6000
中心频率 特性阻抗(Ω)	50 \pm 10	Impedance(Ω)	50 \pm 10
增益(dBi)	1.02@2.4G 2.95@5G	Gain(dBi)	1.02@2.4G 2.95@5G
不圆度(dBi)	\leq 3dbi	out-of-roundness	\leq 3dbi
反射损耗	\leq -10dbi	ReTurnLoss(dB)	\leq -10dbi
输出电压 驻波比	\leq 1.34	VSWR	\leq 1.34
最大功率	1W	Admitted Power	1W
极化方式	垂直极化	Polarization	Linear, Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	SMA	Connector Type	SMA
物理性能		Physical Properties	
天线本体材料	TPEE	Antenna Base	TPEE
工作温度	-20 $^{\circ}$ C~+60 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+60 $^{\circ}$ C
保存温度	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C

REV	DATE	DESCRIPTION
A	2014-10-18	NEW ISSUE



Specification:
 Frequency Range : 2.4G~2.5GHz
 Return loss: -9.5dB or less
 VSWR: 2.0:1max
 Gain: 3dbi
 Product tensile strength: fixed seat and plastic rod for 7 kg, SMA joint torque 0.3~0.6 KG.

1. 外箱需贴上1pcs/ROHS环保标签至外箱标签上;
2. 外箱须贴上1pcs外箱标签至外箱右上角。

Pack full: 20pcs/PE Bag

9	泡棉	1	EVA ; Black
8	杆套	1	TPEE ; White
7	螺旋杆	1	Brass
6	PCB	1	FR-4
5	线材	1	RG178 ; Brownish
4	铆钉	2	POM ; White
3	上固定座	1	PC ; White
2	下固定座	1	PC ; White
1	SMA接头	1	小SMA; White
NO	DESCRIPTION	Q'TY	REMARK

XXX.	±5.0	APPROVED	Andy
XX.	±3.0		
X.	±1.0	CHECKED	Bruce
.X	±0.5		
.XX	±0.1	DRAWING	

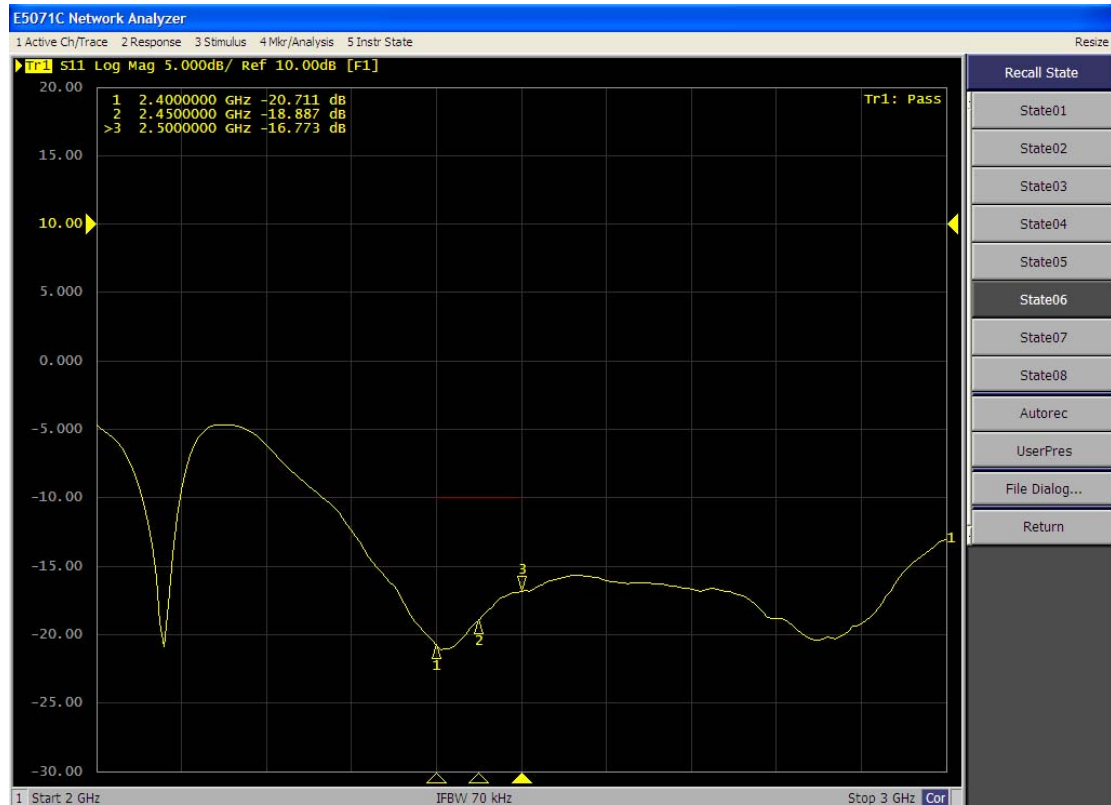
COSTOMER:				
PART NO :				
PARTNAME : RF Antenna Assembly				
R,F P/NO : RF21S00165A				
REV	UNIT	SCALE	SIZE	SHEET
A	mm	1:1	A4	10F1

RF link
 东莞市仁丰电子科技有限公司
 RenFeng Electronic technology Co., LTD.

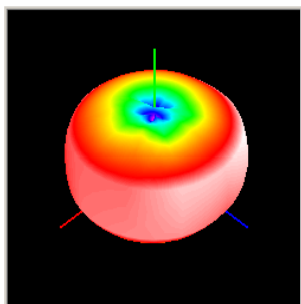
产品主要技术参数

测试报告:

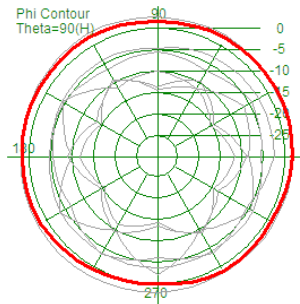
网络分析仪测试报告:



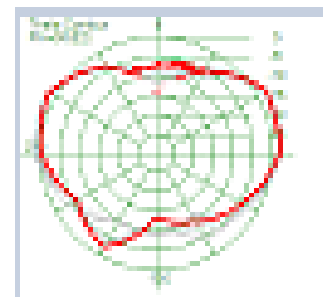
暗室 2D、3DRadiation Pattern



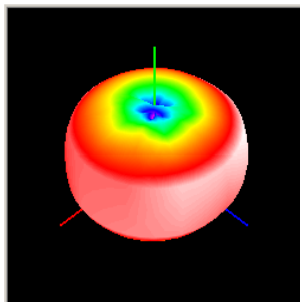
2.4 GHz z



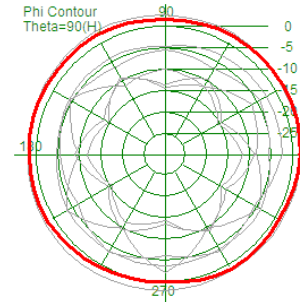
Gain (Peak): 0.87 dBi



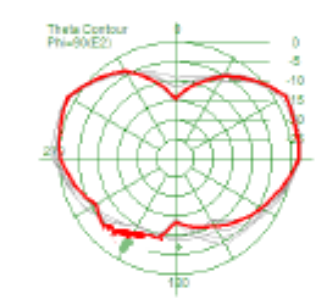
Efficiency: 85.6%



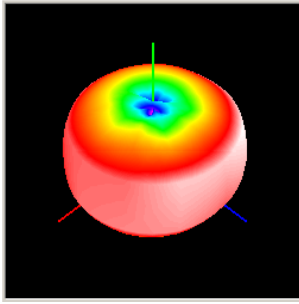
2.45 GHz z



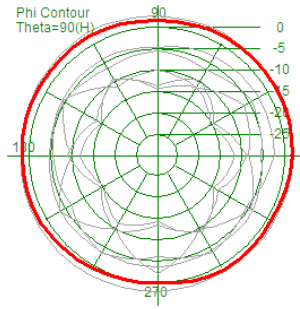
Gain (Peak): 1.02 dBi



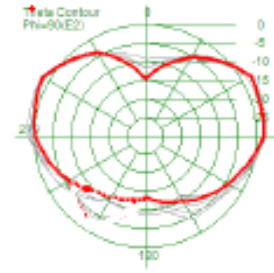
Efficiency: 88.4%



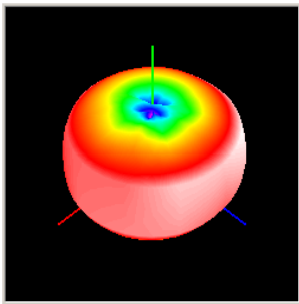
2.5GHz z



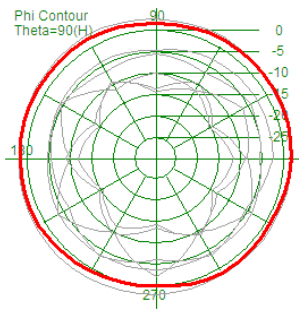
Gain (Peak): 0.61 dBi



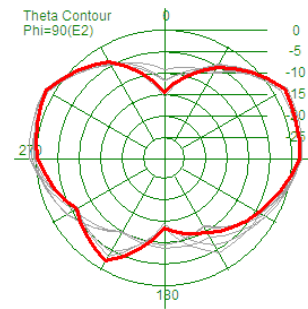
Efficiency: 83.1%



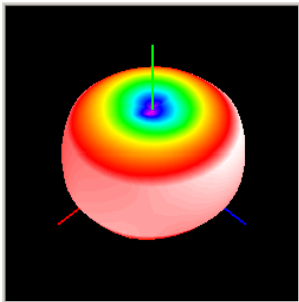
5GHz z



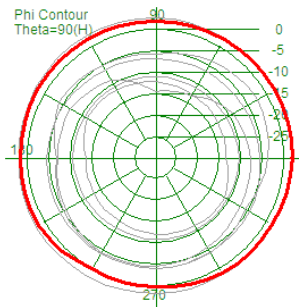
Gain (Peak): 2.01 dBi



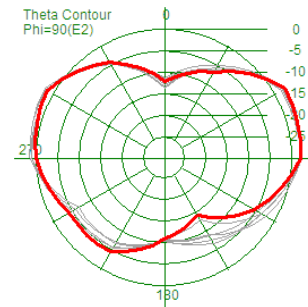
Efficiency: 87.3%



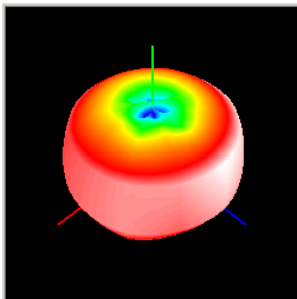
5.5 GHz z



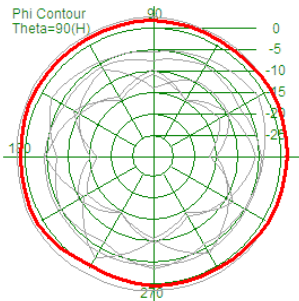
Gain (Peak): 2.95 dBi



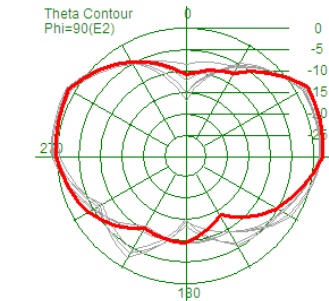
Efficiency: 86.7%



6 GHz z



Gain (Peak): 1.87 dBi



Efficiency: 82.2%