

供方 LOGO 和名称:



东莞市仁丰电子科技有限公司

Dongguan RF Electronic Technology Co., Ltd

公司地址: 东莞市塘厦镇清湖头三坑工业区1号 电话: 0769-38940168 传真: 0769-39010966 网址: <http://rflink.net.cn>

# 规格承认书

## SPECIFICATION FOR APPROVAL

客户名称 (CUSTOMER)	广东九联科技股份有限公司
客户型号 (MODEL NO)	(由九联填写)
客户料号 (PART NO)	(由九联填写)
供方型号 (MODEL NO)	(由供方填写)
供方料号 (PART NO)	U00T01S076N04823 (由供方填写)
最小包装量 (MPQ)	20 (由供方填写)
品牌 (BRAND)	Rf link (由供方填写)
送样日期 (DATE)	2023/12/22 (由供方填写)
样品数量 (QUANTITY)	30 (由供方填写)

供方确认			客户确认		
APPROVED SIGNATURES			APPROVED SIGNATURES		
承办	审核	核准	检测	审核	核准
PREPARED BY	CHECKED BY	APPROVED BY	TESTED BY	CHECKED BY	APPROVED BY

备注: 承认书一式一份; 送样时由供方**手工签名和加盖公司公章**

地址: 广东省东莞市塘厦镇清湖头三坑路一号

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联系人: 韦良松 手机: 18877417721

电子邮箱: [SevlynWei@rflink.net.cn](mailto:SevlynWei@rflink.net.cn)

公司网址: [www.rflink.net.cn](http://www.rflink.net.cn)

# 承 认 书

## SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME: 九联

产品名称

PRODUCT NAME: 5G 外露L=340MM

客户料号

CUSTOMER P/N:

仁丰料号

Ren Feng P/N: U00T01S076N04823 REV: B

内部结构

Internal structure: PCB

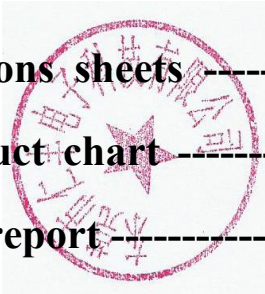
	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	杨振	
AUDITOR BY:	肖玉鹏	
APPROVED BY:	姚定军	
DATE:	2023-12-08	

履历表

版次号	修改章节	修改页码	生效日期	文件和资料更改内容	更改记录人
A			2023-12-08	初版发行	杨振
B	五	5	2024-03-12	更改外观及方案	杨振

## Contents

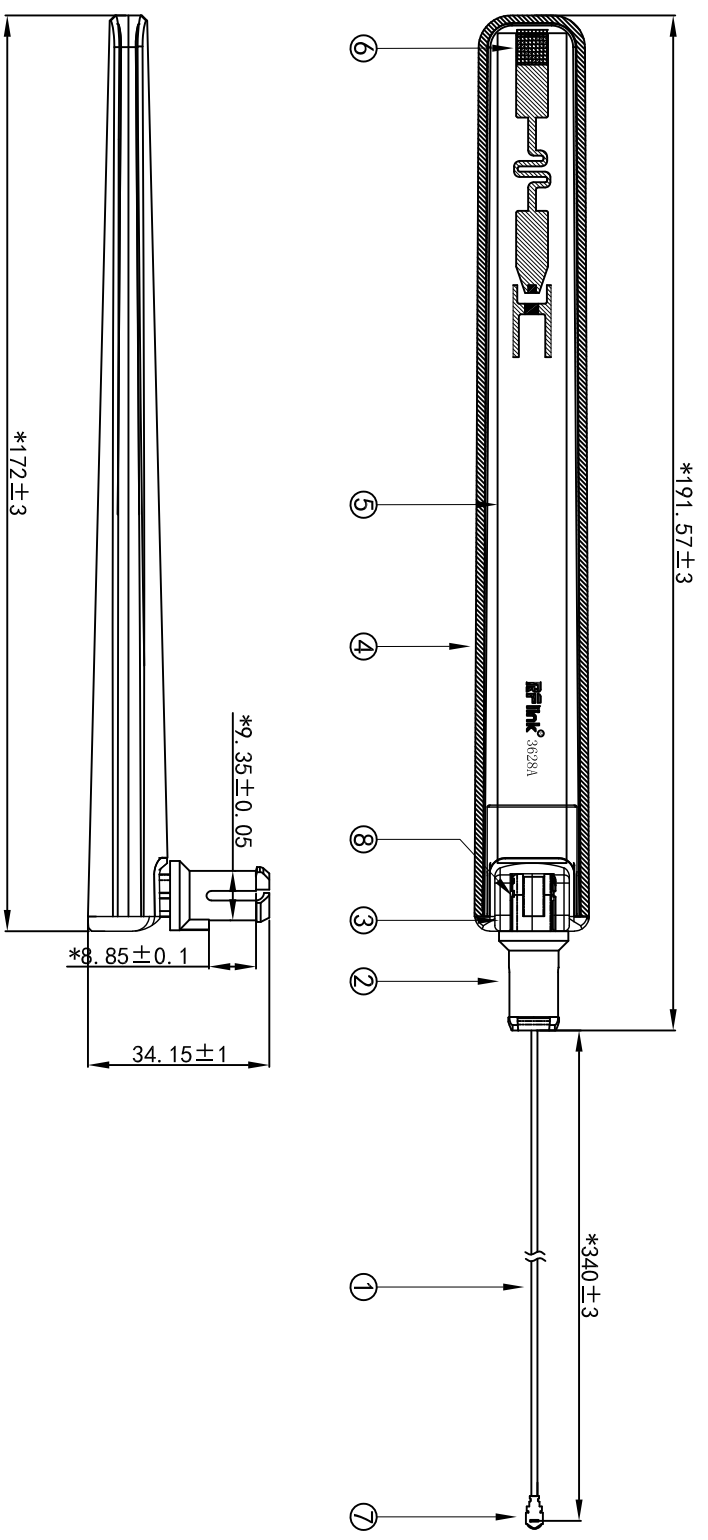
<i>Description</i>	<i>Page</i>
1、封面 Cover -----	1-2
2、履历表 Resume -----	3
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产品主要技术参数

主要技术指标		Main technical specifications	
频率范围 (MHZ)	5150-5850	Frequency Range (MHZ)	5150-5850
中心频率 特性阻抗( $\Omega$ )	50	Impedance( $\Omega$ )	50
增益(dBi)	4.74	Gain(dBi)	4.74
反射损耗	$\leq -10$	Return Loss(dB)	$\leq -10$
输出电压 驻波比	$\leq 1.92$	VSWR	$\leq 1.92$
极化方式	垂直极化	Polarization	Linear, Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	端子	Connector Type	MHF Plug
物理性能		Physical Properties	
天线本体材 料	ABS	Antenna Base	ABS
工作温度	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
保存温度	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

REV	DATE	DESCRIPTION
A	2023-12-08	NEW ISSUE
B	2024-03-12	更改外观及方案



规格 (Specification) :  
 频率 (Frequency Range) : 5.15~5.85GHz  
 回波损耗 (Return loss) : -10dB or less  
 驻波比 (VSWR) : 1.92max

NO.	DESCRIPTION	Q'TY	REMARK
1	线材	1	Ø1.37 Gray
2	下固定座	1	PC+PBT; Black
3	上固定座	1	ABS; Black
4	杆套	1	ABS; Black
5	POB板	1	FR-4
6	泡棉	1	EVA; Black
7	端子	1	Copper
8	铆钉	2	POM; Black

尺寸 (mm)	公差 (mm)	角度
0<L≤6	±0.10	±0.5°
6<L≤30	±0.10	
30<L≤60	±0.15	
60<L≤180	±0.20	
180<L≤315	±0.25	
315<L≤800	±0.35	

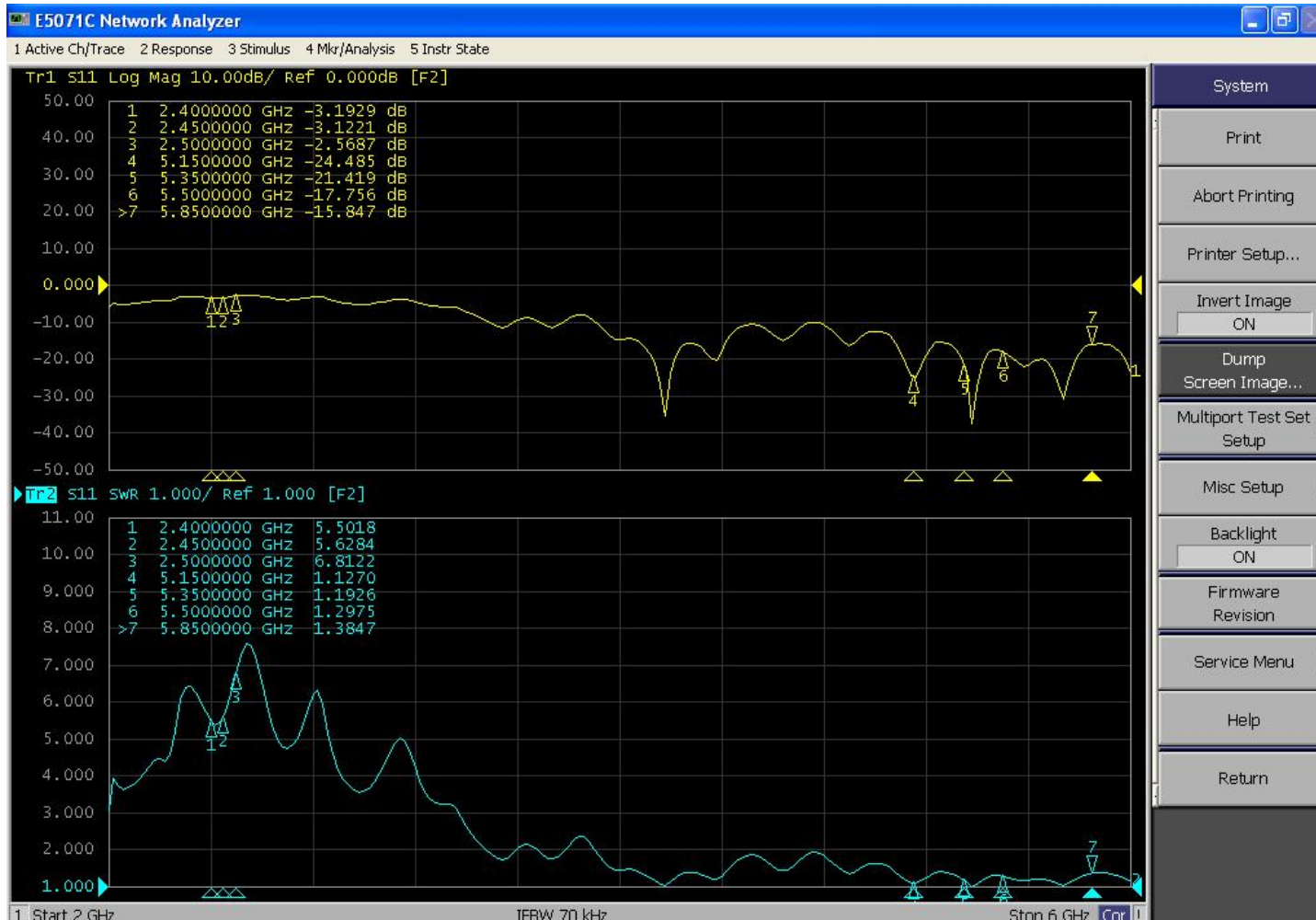
REV	UNIT	SCALE	SIZE	SHEET
B	mm	1:1	A4	10F1

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

带公差尺寸为检验尺寸  
 产品符合环保RoHS2.0之要求

# 单频5G天线

## ANT6-5G回波损耗与电压驻波比VSWR



ANT6-5G

# AX6000 Project

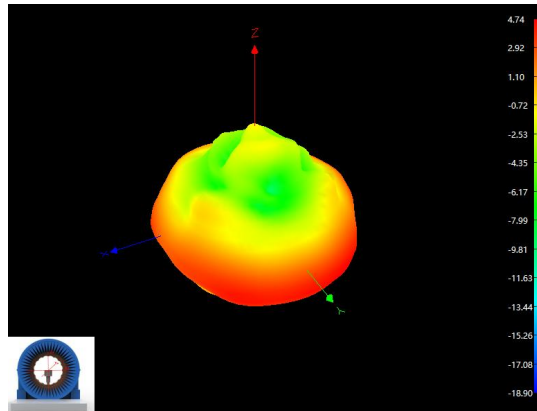
2D/3D Pattern

H面: XY (水平面)

E1面: XZ

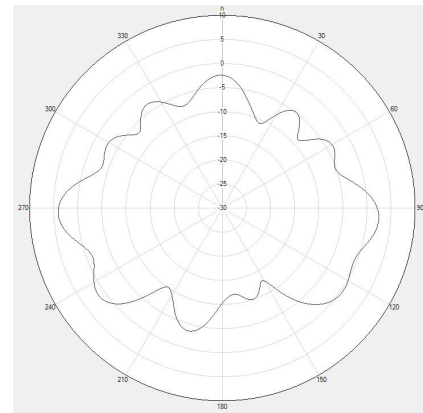
E2面: YZ

远场方向图

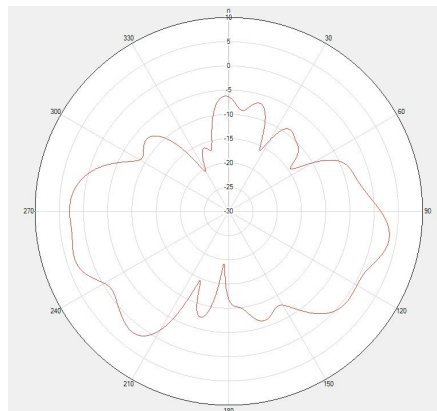


5G-ANT6  
5150MHz

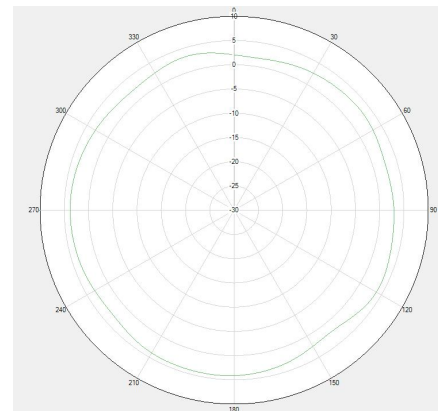
E1面



E2面



H面





# AX6000 Project

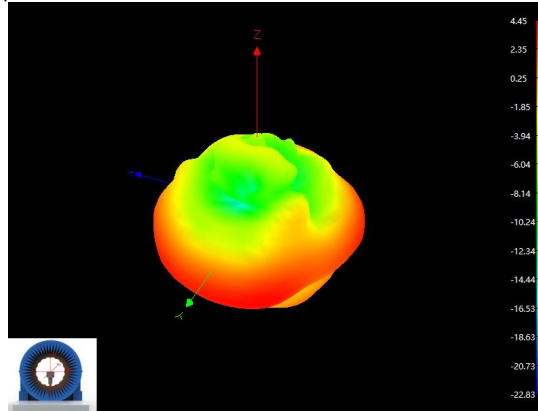
2D/3D Pattern

H面: XY (水平面)

E1面: XZ

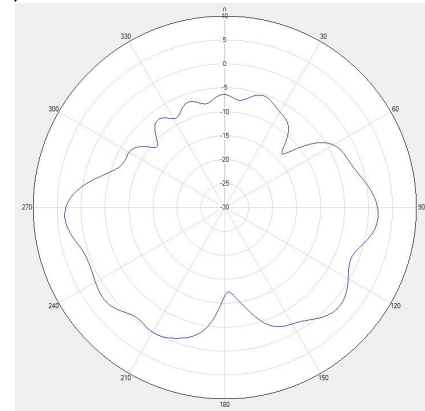
E2面: YZ

远场方向图

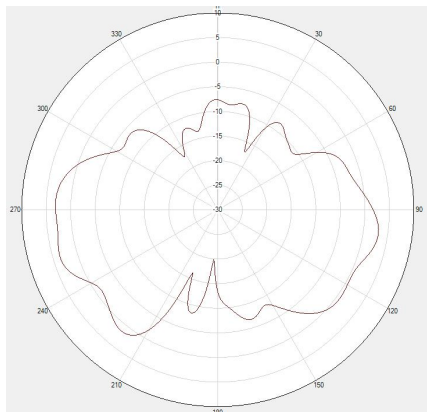


5G-ANT6  
5500MHz

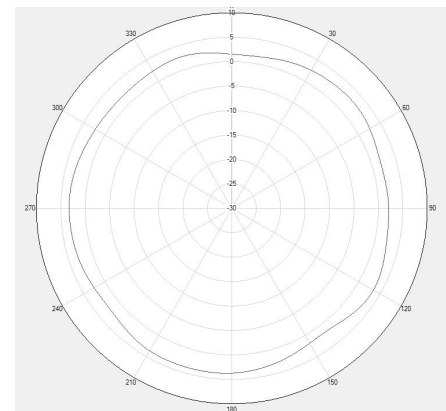
E1面



E2面



H面



# AX6000 Project

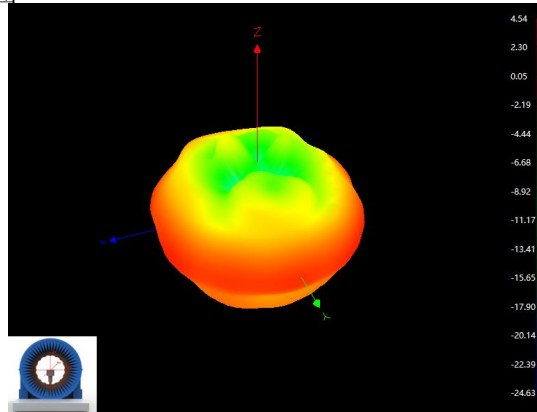
2D/3D Pattern

H面: XY (水平面)

E1面: XZ

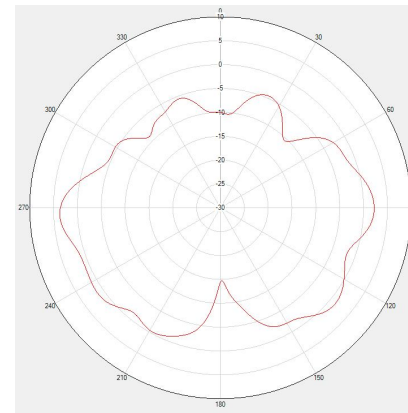
E2面: YZ

远场方向图

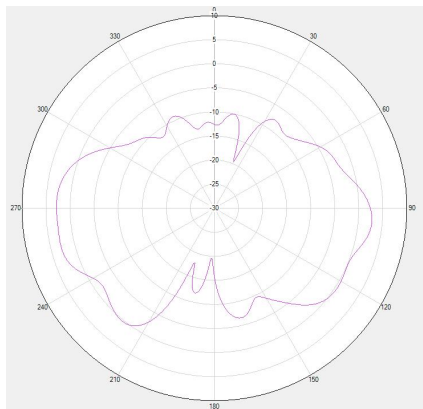


5G-ANT6  
5850MHz

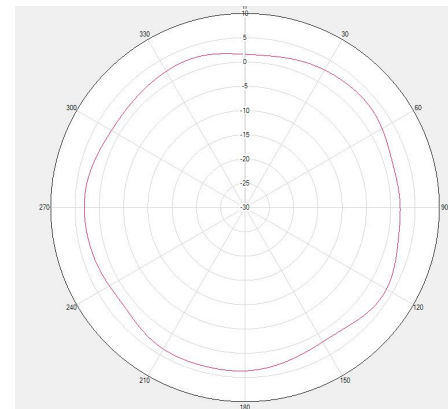
E1面



E2面



H面



# AX6000 Project

## 5G Peak Gain&Efficiency



	5G_ANT6	
Freq (MHz)	Effi (%)	Gain (dBi)
5150	72.72	4.74
5200	68.28	4.29
5250	73.81	4.33
5300	69.48	4.28
5350	72.58	4.34
5400	74.33	4.45
5450	75.21	4.21
5500	73.23	4.45
5550	71.23	4.25
5600	66.98	4.23
5650	72.39	4.29
5700	67.70	4.35
5750	74.83	4.48
5800	71.09	4.28
5850	72.68	4.54

## OTA测试结果

2.4G							
Mode	Test Case	Channel	Date Rate (Mbps)	ANT1 Test Results (dBm)	ANT2 Test Results (dBm)	ANT3 Test Results (dBm)	ANT4 Test Results (dBm)
IEEE 802.11g	TRP (Total)	1	6	22.41	22.57	22.81	21.47
		6		22.50	21.37	21.78	21.38
		11		21.46	21.31	21.54	21.16
	TIS (Total)	1	54	-78.06	-78.08	-78.32	-77.24
		6		-78.60	-78.56	-78.24	-78.11
		11		-78.39	-78.35	-78.05	-77.68

5G							
Mode	Test Case	Channel	Date Rate (Mbps)	ANT1 Test Results (dBm)	ANT2 Test Results (dBm)	ANT5 Test Results (dBm)	ANT6 Test Results (dBm)
IEEE 802.11a	TRP (Total)	36	6	21.54	22.37	21.38	21.92
		149		20.65	21.21	21.66	21.88
		161		20.31	21.15	21.80	21.74
	TIS (Total)	36	54	-76.45	-76.36	-76.85	-76.69
		149		-75.88	-75.44	-76.82	-76.21
		161		-75.15	-75.05	-76.13	-76.35

## OTA测试结果

2.4G							
Mode	Test Case	Channel	Date Rate (Mbps)	ANT1 Test Results (dBm)	ANT2 Test Results (dBm)	ANT3 Test Results (dBm)	ANT4 Test Results (dBm)
IEEE 802.11g	TRP (MAX)	1	6	28.16	28.60	30.21	29.92
				28.79	28.61	29.41	28.65
				29.11	29.24	28.95	28.63
	TIS (MIN)	1	54	-85.79	-85.12	-86.64	-86.20
				-85.92	-85.76	-86.62	-85.97
				-86.69	-85.88	-85.73	-86.48

5G							
Mode	Test Case	Channel	Date Rate (Mbps)	ANT1 Test Results (dBm)	ANT2 Test Results (dBm)	ANT5 Test Results (dBm)	ANT6 Test Results (dBm)
IEEE 802.11a	TRP (MAX)	36	6	29.16	29.82	29.35	29.16
		149		28.72	28.54	29.22	28.74
		161		28.01	28.31	28.83	28.69
	TIS (MIN)	36	54	-84.22	-83.80	-84.35	-84.54
		149		-83.23	-83.26	-84.22	-84.43
		161		-83.07	-83.19	-84.07.	-84.15