
烽火通信天线类

物料规格书

SPECIFICATION FOR APPROVAL

Antenna P/N: RFB1650CBB01C

Antenna Printing: RF01C3A 224

Antenna Description: 5G 5dBi 白色天线 70mm

Model NO: SR1041HF

Revision: R_A

Date: 2022-03-19

制订 Prepared	审核 Checked	核准 Approved	烽火验收 Accepted
黄磊	杨堡钧	姚定军	

Contents

Version	Date	Description	Author
RA	2022-03-19	New Release	黄磊

目录

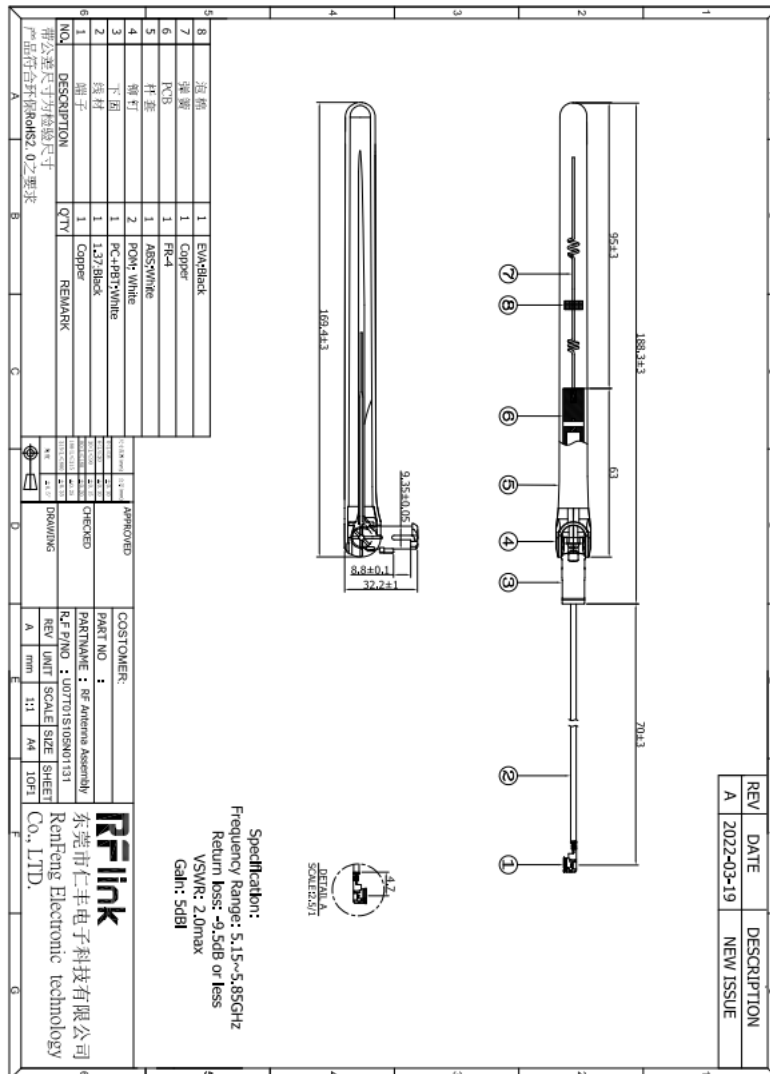
一、Electrical Performance	3
二、Dimensions	4
三、Details	5
四、Test Report.....	6
五、List of Raw Materials /ROHS	8
六、Reliability Test.....	9
七、Package:	10
八、Appendix	11

一、Electrical Performance

WIFI(可选, 不涉及可删除)

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400~2500	Frequency Range (MHZ)	2400~2500
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	5 $\pm$ 1	Peak Gain(dBi)	5 $\pm$ 1
输出电压 驻波比	≤ 1.5	VSWR	≤ 1.5
极化方式	垂直极化	Polarization	Linear,Vertical
方向性	全向性	Radiation	Omni-directional

二、Dimensions



备注:

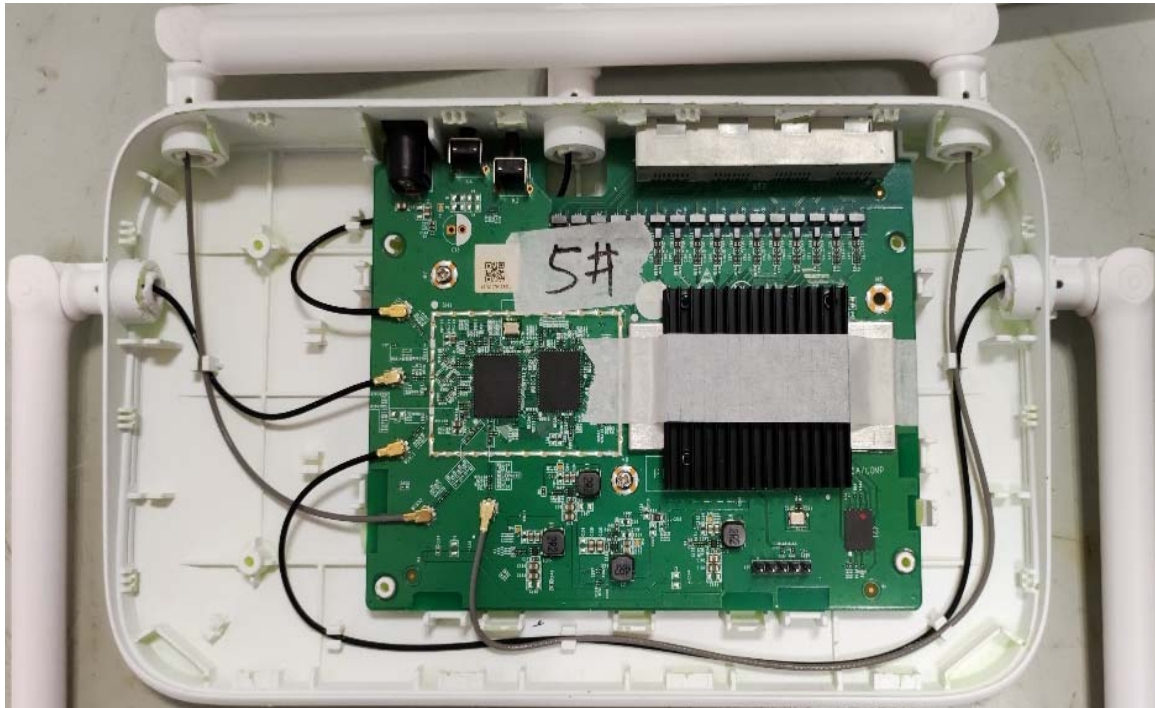
外置天线要求:

天线塑胶材质		
杆套	铆钉	转轴
ABS/PC ABS	POM	PC

- 1, 天线图纸需经过烽火 UED 审核;
- 2, 天线塑壳需经过烽火 UED 封样后方可量产;
- 3, 使用原材料需提供明确厂家牌号, 更换牌号需重新报备并测试通过后方可使用。
- 4, 特殊原因需变更部件材质时, 需报备并测试通过后方可使用。

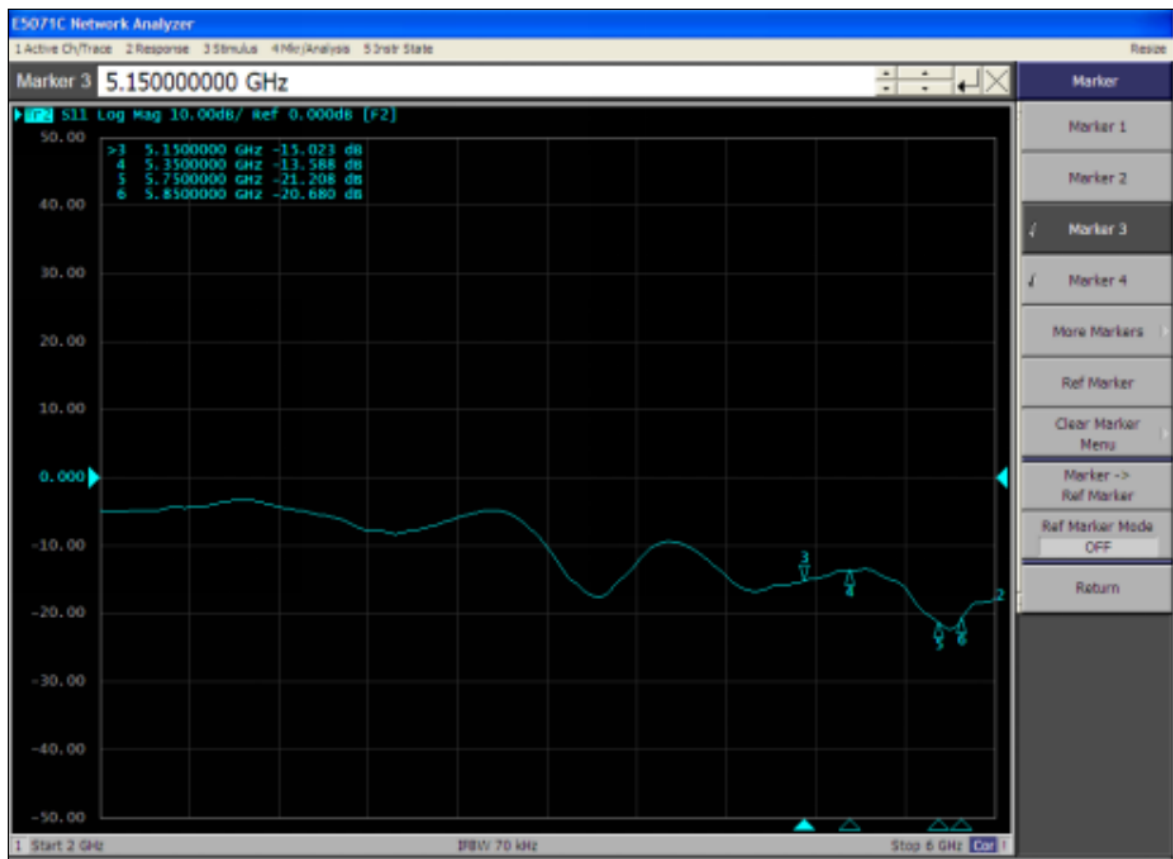
三、 Details of the antenna and the whole machine (including the antenna body, the relative position of the antenna and the whole machine

setting, etc.)

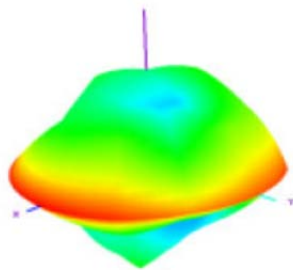


四、Test Report

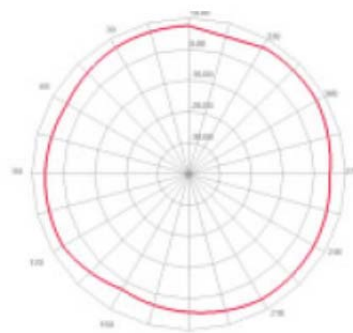
3.1: S11, S21 parameters



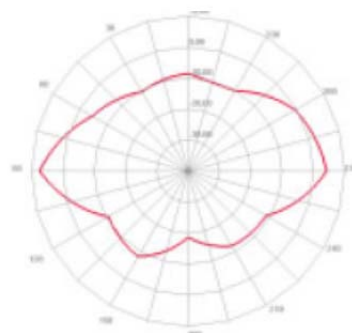
3.2: 3D、2D Raditation Pattern



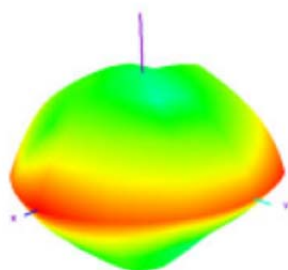
5.15GHz



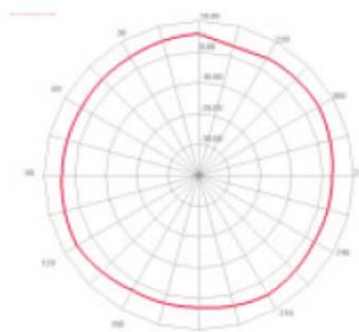
Gain(pPeak):5.19dBi



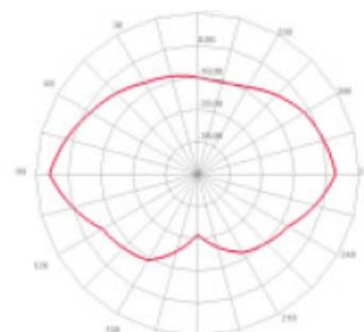
Efficiency:77.4



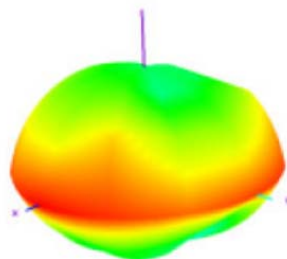
5.55GHz



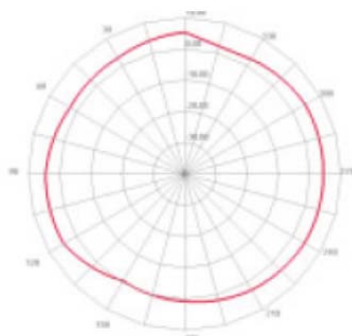
Gain(pPeak):5.23dBi



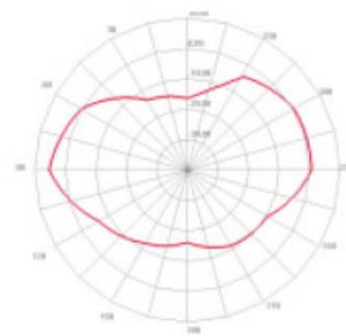
Efficiency:77.9



5.85GHz



Gain(pPeak):5.06dBi



Efficiency:76.5

五、 List of Raw Materials /ROHS

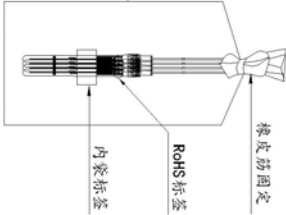
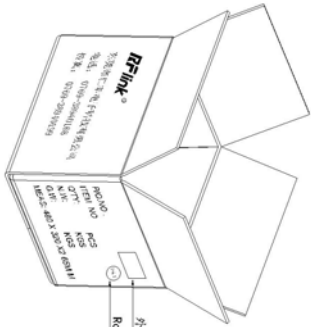
serial number	key raw materials	raw material
1	1.37 wire	Silver Plated Copper/FEP/Tin Plated Copper
2	lower mount	PC+PBT
3	rod cover	ABS
4	rivet	POM
5	PCB	FR-4
6	terminal	Phosphor bronze+PBT
7	foam	Eva
8	spring	brass

六、Reliability Test

The conclusion of the external antenna structure reliability test item (the report is attached separately):

Test items	Test Results	Remark
Material flame retardant inspection	PASS	
Plastic structure matching inspection	PASS	
Antenna Pulling Force Test	PASS	
External Antenna Operation Check	PASS	
Alternating Damp Heat Test	PASS	
temperature cycle test	PASS	
Antenna Strength Test	PASS	
Salt spray resistance test	PASS	
External antenna torque interfit test (shell and antenna shaft)	PASS	

七、Package

A				B				C				D				E				F		G																																																					
产品包装																REV	DATE	DESCRIPTION																																																									
																A	2022-03-19	NEW ISSUE																																																									
单个产品 																																																																											
内袋包装说明: 1. 每袋装入50pcs 产品. 2. 用珍珠棉袋/橡皮筋固定线材 3. 每袋需贴相应标签																																																																											
内袋包装 																																																																											
外箱包装说明: 1. 外箱需贴1pc外箱标签及条码标签于图示位置. 2. 纸箱尺寸: 长480mm*宽320mm*高265mm. 3. 每箱装18袋: 共900PCS/箱																																																																											
外箱包装 																																																																											
<table border="1"> <thead> <tr> <th colspan="2">尺寸范围 (mm)</th> <th colspan="2">公差 (mm)</th> <th colspan="2">APPROVED</th> <th colspan="2">CUSTOMER:</th> </tr> </thead> <tbody> <tr> <td>651.1~6</td> <td>1.0/0.2</td> <td>1.0/0.2</td> <td></td> <td colspan="2">PART NO :</td> <td colspan="2"></td> </tr> <tr> <td>254.1~20</td> <td>1.0/0.2</td> <td>1.0/0.2</td> <td></td> <td colspan="2">PARTNAME :</td> <td colspan="2">外置天线出线式包装</td> </tr> <tr> <td>254.1~20</td> <td>1.0/0.2</td> <td>1.0/0.2</td> <td></td> <td colspan="2">R.F P/NO :</td> <td colspan="2">U07701S105N01129</td> </tr> <tr> <td>1304.1~1315</td> <td>1.0/0.2</td> <td>1.0/0.2</td> <td></td> <td colspan="2">REV</td> <td colspan="2">UNIT SCALE SIZE SHEET</td> </tr> <tr> <td>1315.1~1330</td> <td>1.0/0.2</td> <td>1.0/0.2</td> <td></td> <td colspan="2">A</td> <td colspan="2">mm 1:1 A4 10F1</td> </tr> </tbody> </table>																尺寸范围 (mm)		公差 (mm)		APPROVED		CUSTOMER:		651.1~6	1.0/0.2	1.0/0.2		PART NO :				254.1~20	1.0/0.2	1.0/0.2		PARTNAME :		外置天线出线式包装		254.1~20	1.0/0.2	1.0/0.2		R.F P/NO :		U07701S105N01129		1304.1~1315	1.0/0.2	1.0/0.2		REV		UNIT SCALE SIZE SHEET		1315.1~1330	1.0/0.2	1.0/0.2		A		mm 1:1 A4 10F1													
尺寸范围 (mm)		公差 (mm)		APPROVED		CUSTOMER:																																																																					
651.1~6	1.0/0.2	1.0/0.2		PART NO :																																																																							
254.1~20	1.0/0.2	1.0/0.2		PARTNAME :		外置天线出线式包装																																																																					
254.1~20	1.0/0.2	1.0/0.2		R.F P/NO :		U07701S105N01129																																																																					
1304.1~1315	1.0/0.2	1.0/0.2		REV		UNIT SCALE SIZE SHEET																																																																					
1315.1~1330	1.0/0.2	1.0/0.2		A		mm 1:1 A4 10F1																																																																					
产品符合环保RoHS2.0之要求																																																																											
RFlink 东莞市仁丰电子科技有限公司 RenFeng Electronic technology Co., LTD.																																																																											