

提出日期 Date of Application
2020年5月18日

To: 东软集团（大连）有限公司
Neusoft Corporation

纳入规格书 Delivery Specifications

品名 : BT-Wifi天线
Product Description : BT-Wifi Antenna

厂家品番 : C07N20Z100YN
Maker Part Number

东软品番 : N1LZ00000022
Neusoft Part Number

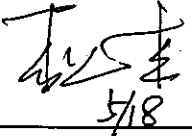
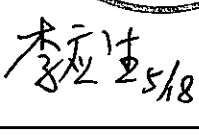
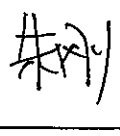
东软纳入规格书编号 :
Neusoft Issue Number

受领印栏 Received Seal

Neusoft Automotives CoC		
日期:	年	月 日
Date:	Year	Month Day
品质承认 Quality admit	设计检印 Design Check	设计担当 Design bear

供应商 : 上海日安天线有限公司
Supplier : NIPPON ANTENNA (CHINA) CO., LTD

制造商 : 上海日安天线有限公司
Manufacturer : NIPPON ANTENNA (CHINA) CO., LTD

Approved by	Checked by	Prepared by
 5/18	 5/18	

1 适用范围/Scope

本仕様书规定了BOX-WIFI天线的电气机械及环境方面的规格。

2 品番构成/Part number structure

C07N19Z100VR

构成规范见<3-1品番构成定义>

3 生产地、工厂、原厂国/Place of production, factory name, country of origin

生产国/Product country:

中华人民共和国/PEOPLE'S REPUBLIC OF CHINA

工厂/Factory:

上海日安天线有限公司/NIPPON ANTENNA (CHINA) CO.,LTD

地址/Address:

上海市嘉定区金沙江西路1555弄376号

No.376 Lane 1555, West Jinshajing Rd., Jiangqiao Town, Jiading District, Shanghai

4 形状/尺寸及材料/Configurations dimensions and materials

具体见外观图纸

Detail information please refer to the drawing

5 温度范围/Temperature Range

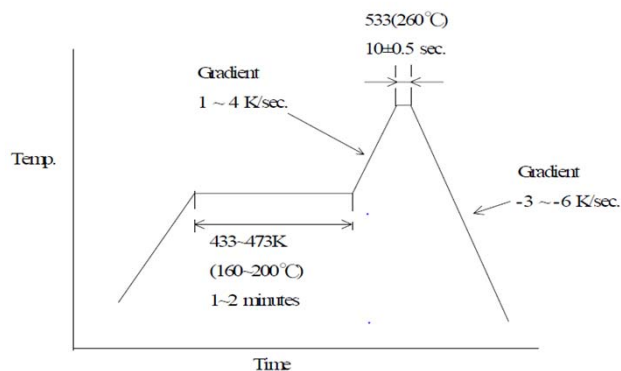
工作温度范围/Operating temperature

-40~85℃

存储温度范围/Storage temperature

-40~95℃

6 推荐的温度曲线/Recommended temperature profile



7 包装要求/packaging requirements

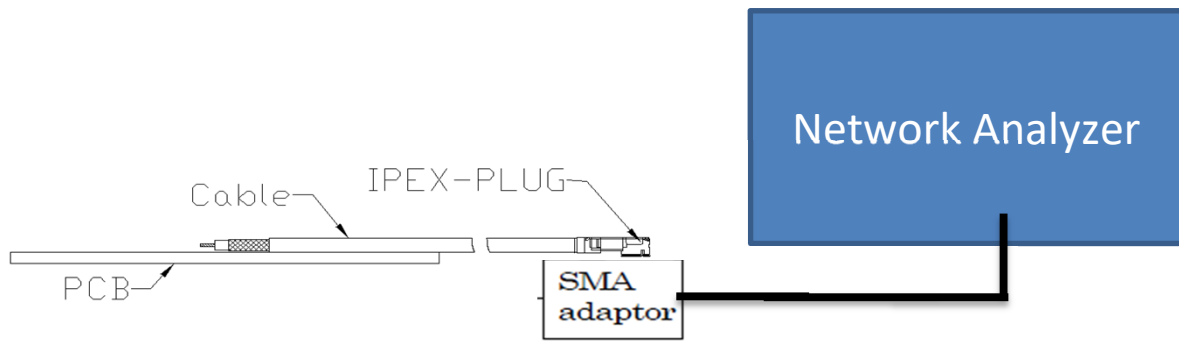
防潮 (湿)/Moisture proof (wet)

防静电等级 II级/Level 2 anti-static

8. 测试方案/Test scheme

连接方式/Connection method

IPEX连接器与SMA适配器连接/
IPEX connector connection with the
SMA adaptor

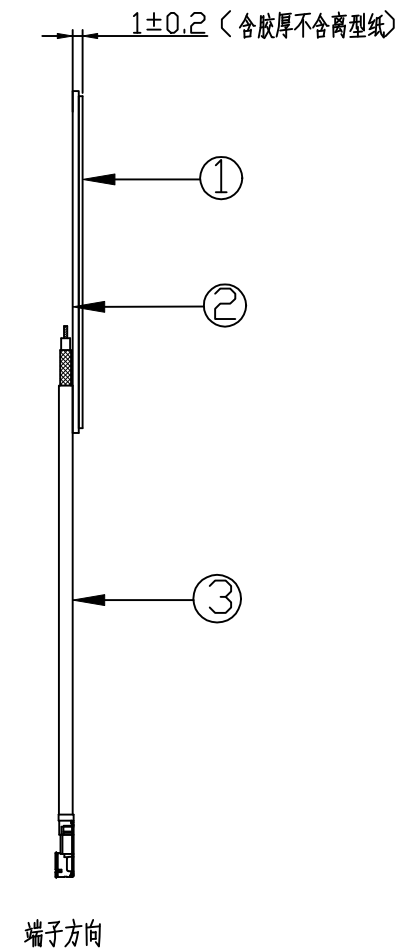
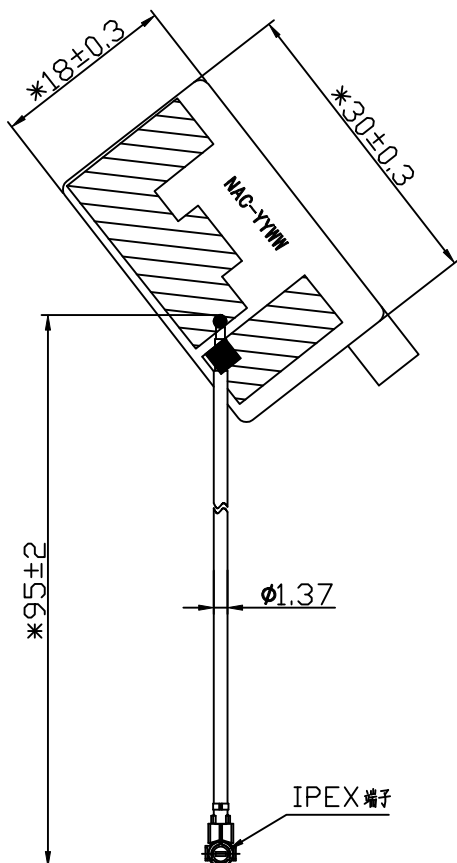


不要实测图面

DO NOT SCALE DRAWING

尺寸范围	公差	的区域
RANGE	COMMON	TOLERANCE
≤ 10	±0.15	±0.2
≤ 25	±0.20	±0.3
≤ 80	±0.30	±0.5
≤ 250	±0.4	±0.8
≤ 1000	±1.0	±2.0

机种 N1LZ00000022



技术要求

1. 材质FR4 厚度: 0.6mm, 产品表面镀绿油;
2. IPEX 端子镀金 RF137 线缆, 黑色;
3. 焊锡饱满无虚焊, 端子方向正确, 丝印清晰, 内容正确;
4. 外观检验标准《NAC-PBIII-009》
5. * 标记为重点管控尺寸;
6. 满足<RoHs2.0>要求;

测试频率:

2400-2500MHz/5150-5850MHz

驻波: 2400-2500MHz≤3.0

5150-5850MHz≤3.0

3	IPEX 线缆组件-95	1	IPEX-20351 镀金	C07N010002YN-0	
2	PCB 基板	1	FR4 表面镀绿油	C07N080001YN-0	
1	背胶	1	3M4920t=0.4	C07N040003YN-0	
序号	名称	数量	材料	处理	部品图号备注
ITEM	DESCRIPTION	QUANTITY	MATERIAL	TREATMENT	PART DRAWING NO. NOTE
SCALE	DESIGNED	DRAWN	INSPECTED	APPROVED	
比	担	制	检	承	
例	朱刚	朱刚	朱刚	朱刚	
图	20200716	图	20200716	图	
单	位	质	品	DESCRIPTION	
DIM	m.m	量	名	天线本体	
MICRO	CADAM	图	图		
符号	日期	变更	记录	担当	承认
SYM	DATE	REVISION	RECORD	DESIGN	APPROVED
				上海日安天线有限公司	图号
				NIPPON ANTENNA(CHINA) CO.,LTD.	C07N20Z100YN-0

产品参数

电性能参数 (Electrical Parameter)		
频率范围	Frequency Range (MHz)	2400-2500&5150-5850
增益	Gain (dBi)	≥ 2
极化	Polarization	线极化
不圆度	----	/
最大输出功率	---	/
驻波比	VSWR	≤ 2.0
效率	Efficiency (%)	≥ 30
输入阻抗	Impedance (Ω)	50
其它参数 (Other Parameter)		
天线尺寸	Dimensions of Antenna (mm)	30*18*1.0
包装尺寸	Dimensions of Package (mm)	---
天线重量	Weight of Antenna (g)	
工作温度	Operating Temp ($^{\circ}\text{C}$)	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
存储温度	Storage Temp ($^{\circ}\text{C}$)	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
线束耐温	Temperature ($^{\circ}\text{C}$)	-55 至 200
线缆尺寸	Dimensions of Cable (mm)	RF137 黑色/100mm

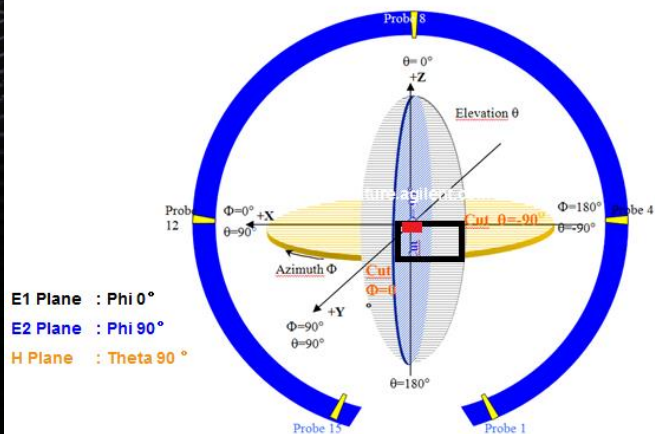
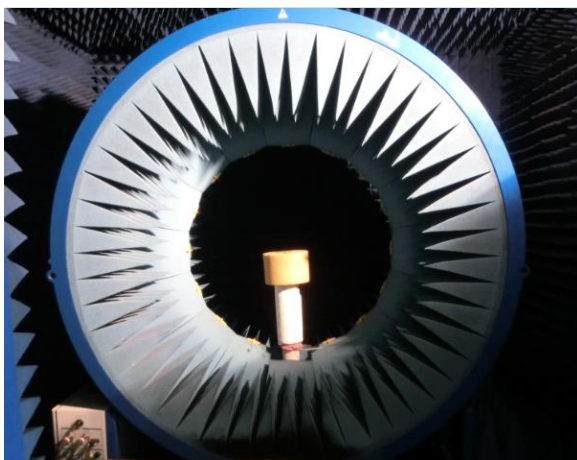
测 试 报 告

客 户	东软
机 种	WIFI BT
结构工程师	李光杰
射频工程师	刘键
日 期	2019-07-31

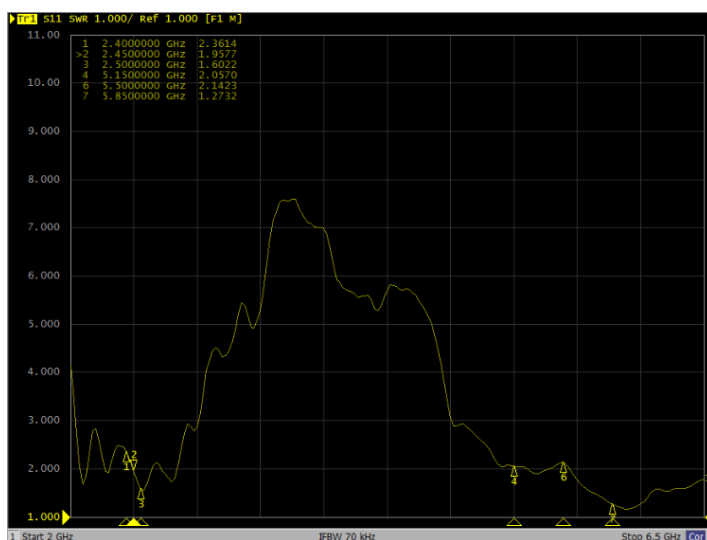
承认		担当
李光杰		刘键

Antenna performance

Measurement Configuration:



VSWR



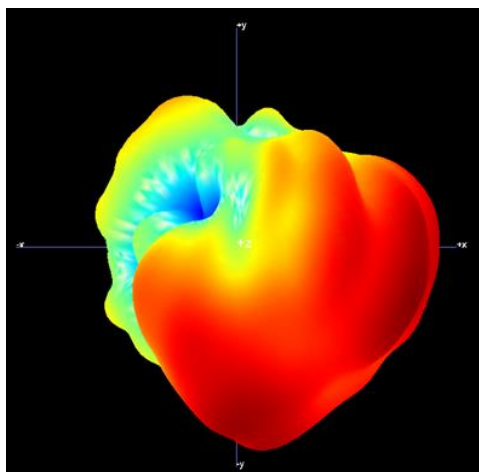
VSWR	Frequency (MHz)					
	2400	2450	2500	5150	5550	5850
	2.36	1.95	1.60	2.05	2.14	1.27

Efficiency%&Gain (dBi)

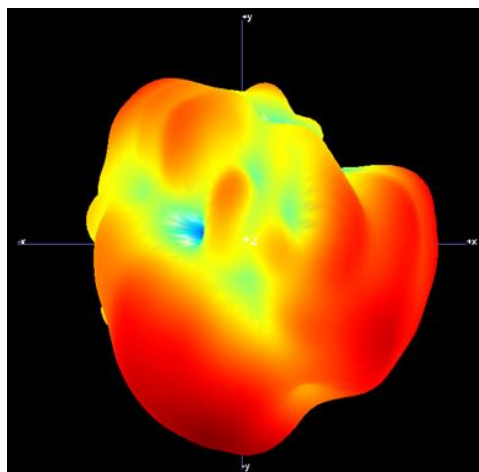
Frequency(MHz)	Efficiency(%)	Peak Gain(dBi)
2400	31%	1.232611281
2450	33%	1.541808987
2500	36%	1.834710448
5150	32%	2.844396881
5250	43%	4.257523791
5350	51%	5.165407229
5450	50%	5.287179214
5550	51%	5.443822023
5650	49%	4.889790819
5750	49%	4.961480261
5850	45%	4.605139672

3D Pattern

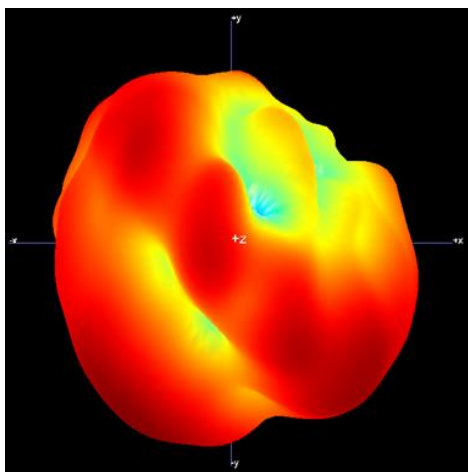
2400MHz



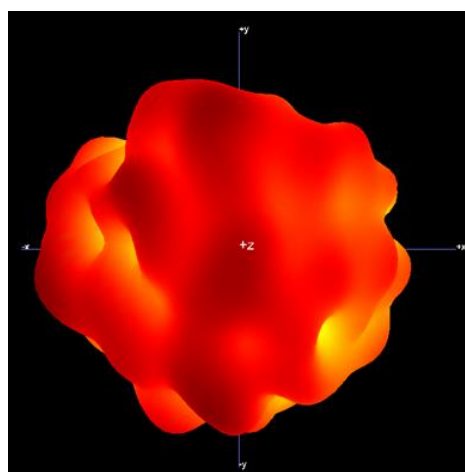
2450 MHz



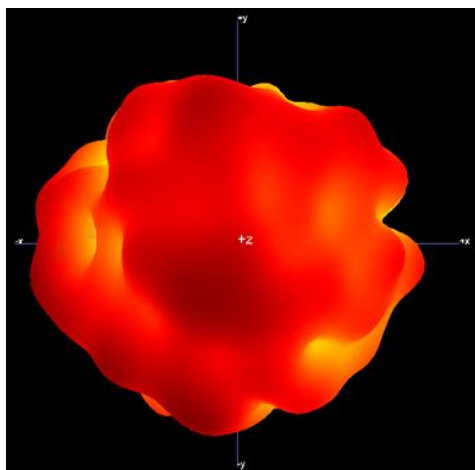
2500 MHz



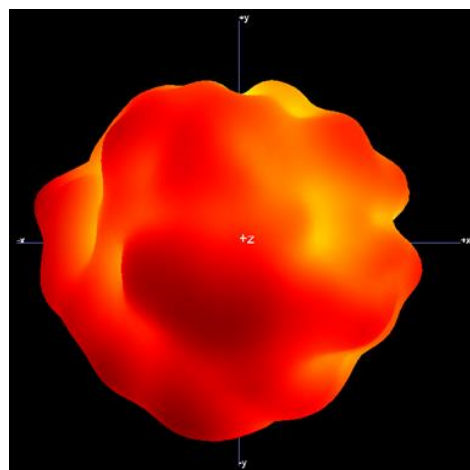
5150 MHz



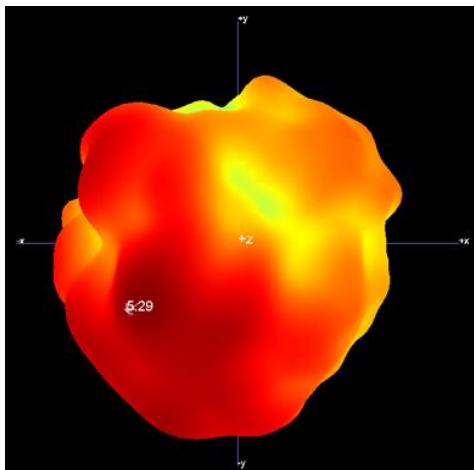
5250MHz



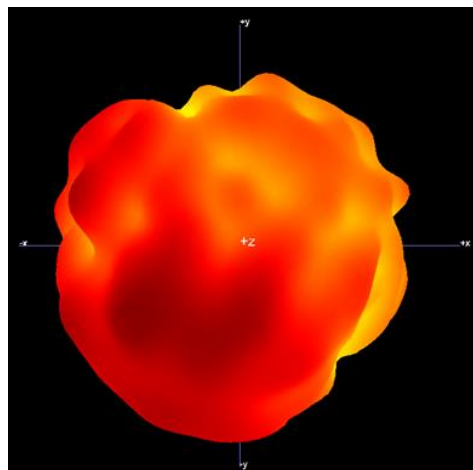
5350 MHz



5450 MHz

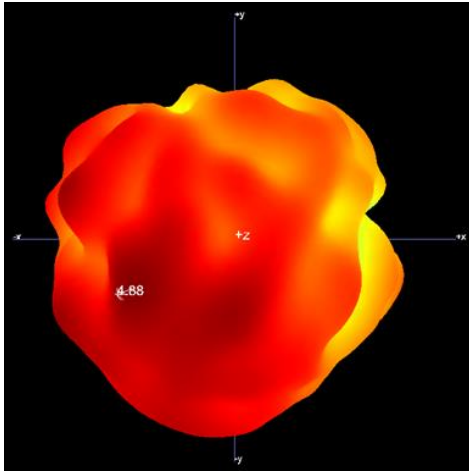


5550 MHz

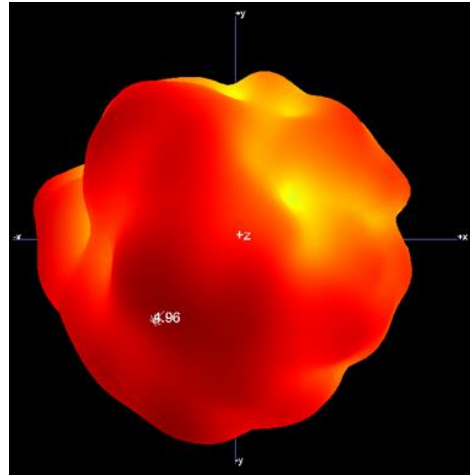




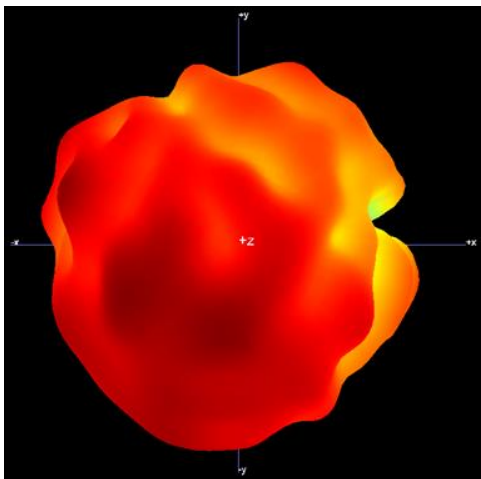
5650MHz



5750 MHz



5850 MHz



Conclusion:

The antenna is located on the top side of the outer shell, the VSWR is less than 3 and the efficiency is 30% by now, the performance of the antenna meets the requirements.