

产品规格承认书

Product specifications
acknowledgment

承认厂商: _____

(Recognized manufacturers)

制造厂商: _____ 深圳市蝙蝠无线技术有限公司

(Manufacturer)

产品名称: _____ 北斗\GPS 有源陶瓷天线

(Description)

产品选型表:

(Product Type)

型号	说明	备注
BWGNSCNX18-18AY4L120	A 为焊接接口 Y4 有源 4mm 厚陶瓷片 线长 120mm	参数均可订制
BWGNSCNX18-18B1Y4L120	B1 IPEX1 端子 Y4 有源 4mm 厚陶瓷片 L120 线长 120mm	参数均可订制
BWGNSCNX18-18B4Y2L120	B4 IPEX4 端子 Y2 有源 2mm 厚陶瓷片 线 长 120mm	参数均可订制

供应商承认签栏

制表者	审核者	核准者

客户承认栏

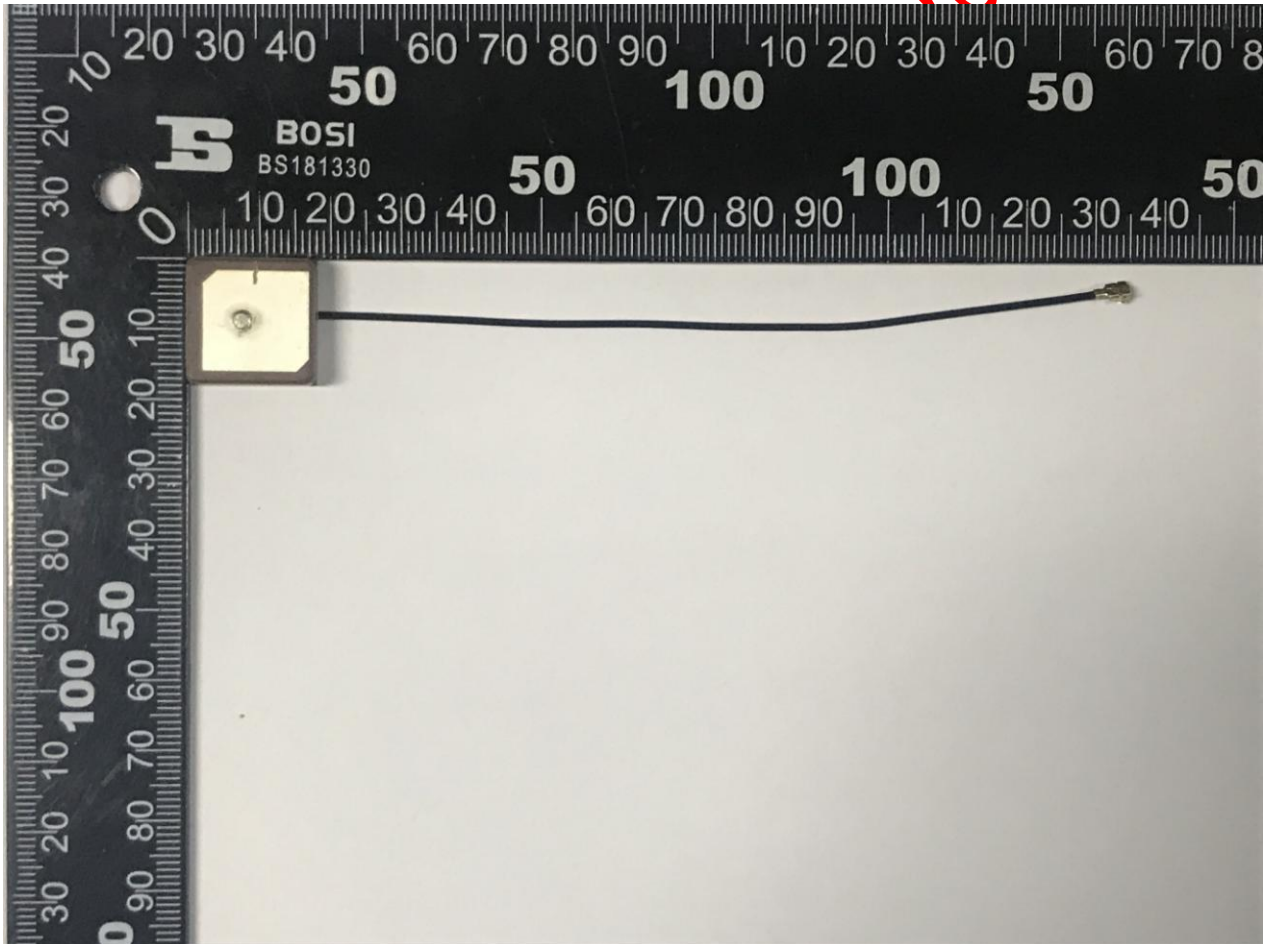
审核者	核准者

1.1 Specifications

天线型号 Antennas Type	BWGNXCX18-18B1Y4L120
频率范围 Frequenc Range (MHz)	1575.42±5MHz
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 V. S. W. R	<1.8
增益 Gain (dBi)	16-18dBi(可定制)
极化形式 Polarization Type	右旋圆极化
功率容量 Power Capacity (w)	50
雷电保护 Lingtning Protection	None
工作电压 DC Voltage (V)	3.3-4.6v
天线尺寸 Dimension (mm)	18x18x6.5
接口形式/Connector Type:	IPEX-1
电缆型号 Cable type (mm)	ϕ 1.13
电缆长度 Cable length(mm)	120
辐射体 Radiator	None
天线颜色 Color	银白色
重量 Weight (g)	None
工作温度 Operating Temperature ($^{\circ}$ C)	-40~80
储藏温度 Storage Temperature ($^{\circ}$ C)	-20~85

*注：以上数据仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

1.2 Antenna Picture



上图型号：BWGNSCNX18-18B1

(定制客户中间连接线长度定制，天线形状定制)

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2. Electrical Specification

2.1 Test Equipment

- A. VSWR and input impedance: Agilent 8753/E5071 Network Analyzer
- B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

2.2 Test Setup

2.2.1 Frequency Range

2.2.2 VSWR

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



Figure.1

2.2.3 Radiation pattern and Gain

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 3).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 4 and 5).



Figure.2



Figure.3

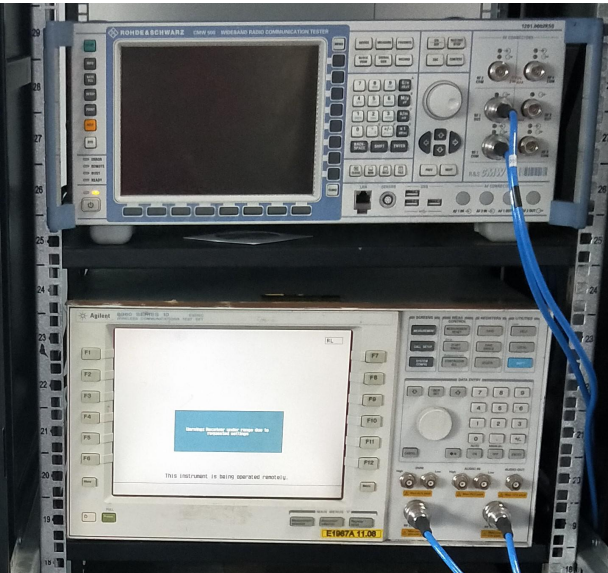


Figure.4

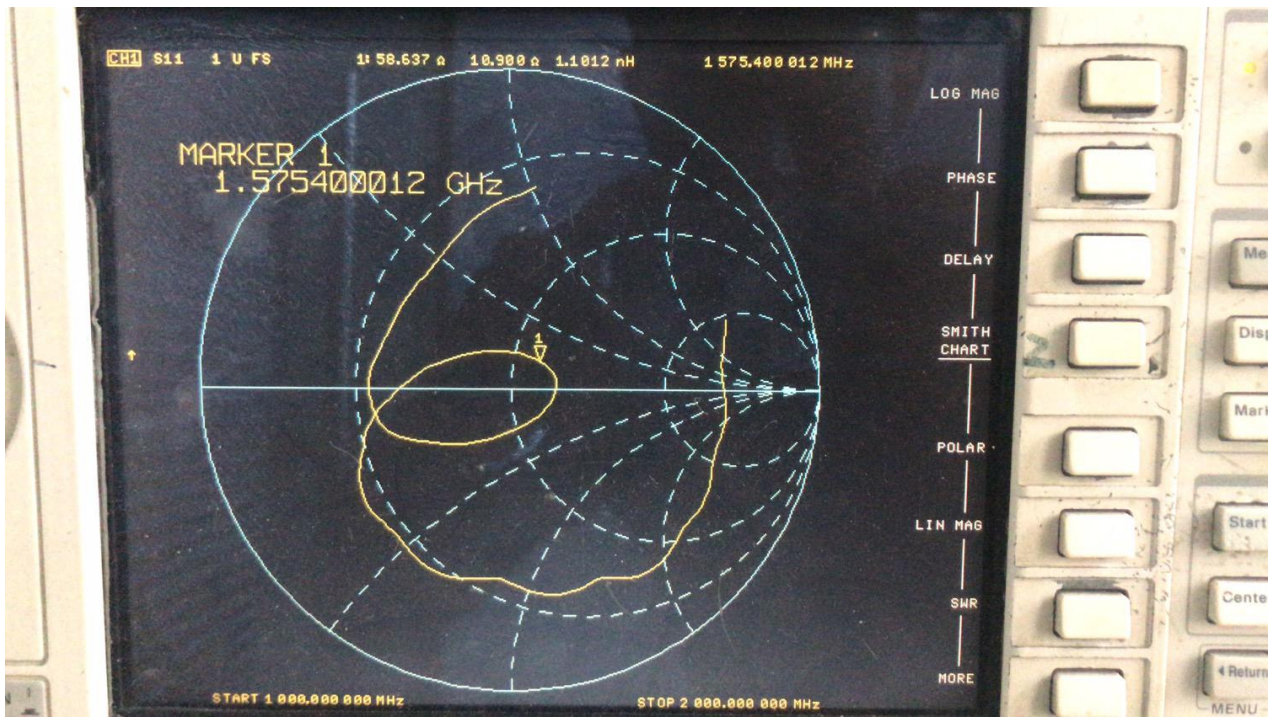
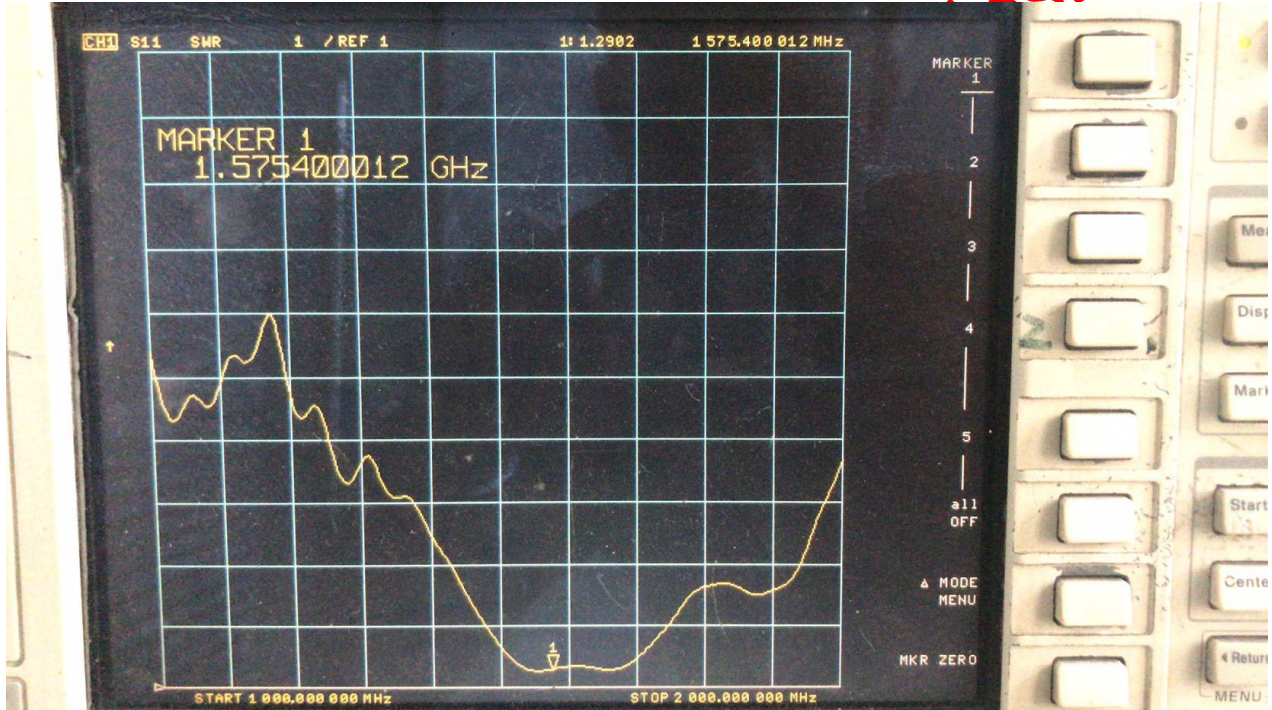


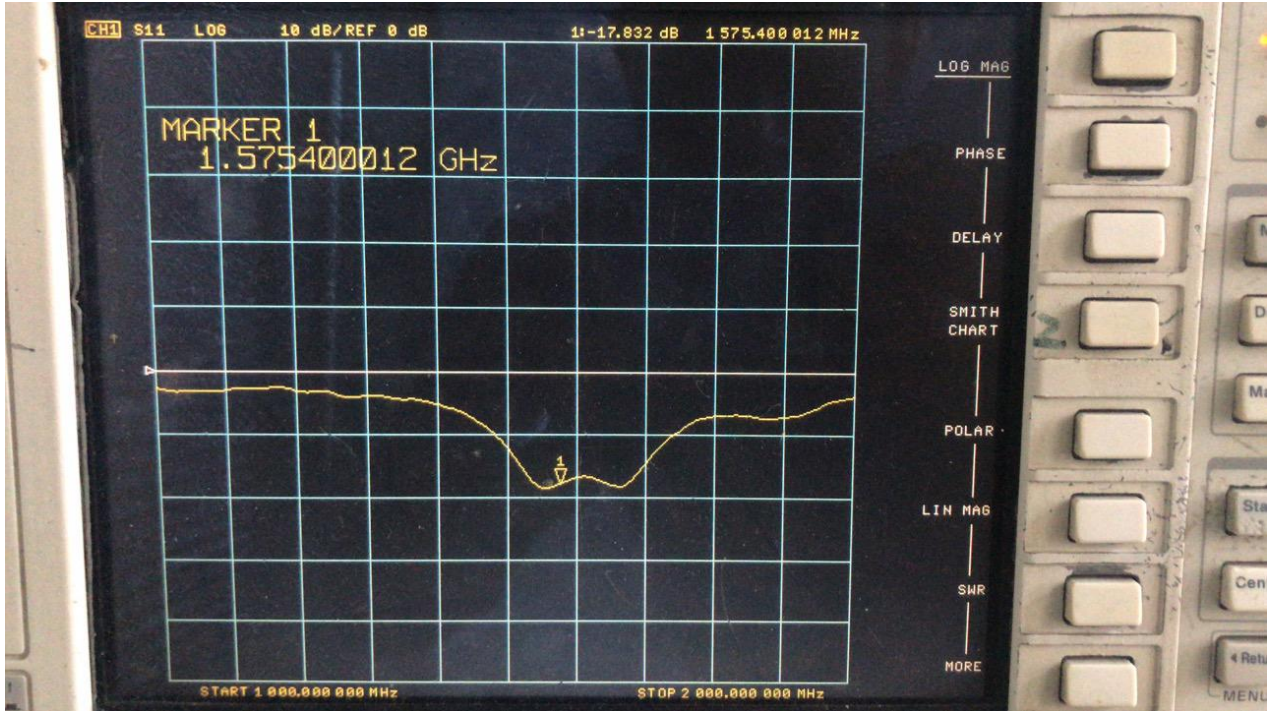
Figure.5

3. Performance Data

3.1 Passive data

VSWR (电压驻波比) / Return Loss (回波损耗) / Smith Chart (史密斯圆图)

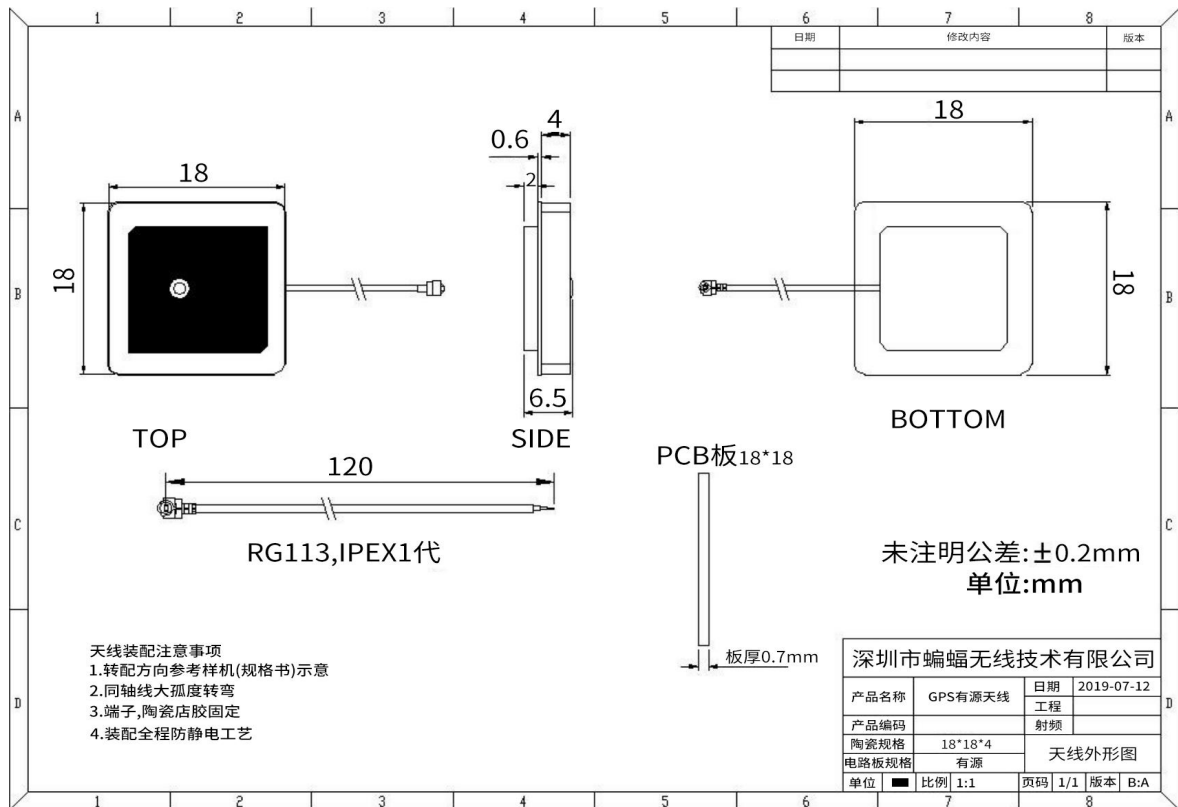




*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

4. Mechanical Specification

4.1 Assembly Drawing



5. RF113

1. 适用范围

本规格书制定了电线的结构和电气特性

同轴线
AWG 32

1. Scope

This specification covers the construction and the electrical properties of wire.

Coaxial Wire
AWG 32

2. 结构/Construction

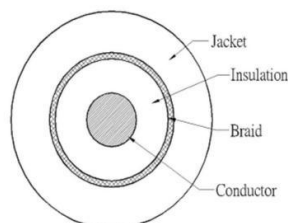
单位/Unit: mm

项目/Item		单位/Unit	详细资料/Details
Conductor 导体	材料/Material	-	绞合镀银铜丝 Silver-coated copper wire
	构成/Composition	(No./mm)	7/0.08
	外径/OD.	mm	0.24
	绞向/Orientation	-	S
Insulation 绝缘层	材料/Material	-	FEP(进口料)
	绝缘颜色/Insulation color	-	本色/Natural
	标称绝缘厚度/ Nom. Thickness	mm	0.22
	绝缘线径/OD.	mm	0.69
Braid Shield 编织	材料/Material	-	镀锡铜丝 Tinned copper wire
	构成/Composition	(No./mm)	16/4/0.05
	编织密度/Coverage	(%)	>=90
Jacket 外被	材料/Material	-	FEP
	标称绝缘厚度/ Nom. Thickness	mm	0.12
	外径/OD.	mm	1.13±0.10

3. Electrical Properties (at 20°C) /电气特性(20°C时)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	571 (Max.)
绝缘电阻/Insulation Resistance	$\text{M}\Omega \cdot \text{km}$	100 (Min.)
耐压强度(AC)/Dielectric Strength(AC)	V/ 1 Min	500
特性阻抗/Impedance	Ω	50±3
耐温等级/ Temperature	$^{\circ}\text{C}$	200
额定电压/rated voltage	V	30

4. 电线截面图示如下:



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