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： 多星多频天线

（Description）

产品选型表：

（Product Type）

型号	说明	备注
BWGNSSGNX120-27T	TNC (Female)	可选配

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**

产品描述

BWGNSSGNX120-27T GNSS 天线，采用双层多馈点设计，支持北斗二代、GPS、GLONASS 和 GALILEO 系统卫星导航信号接收。内置低噪声放大器，采用多级滤波器，带外抑制好，抗干扰能力强，保证在恶劣电磁环境下正常工作。满足目前多系统兼容和高精度测量的需求。

产品应用 APPLICATIONS

广泛应用于航空航天、精准农业、车载定位、无人机等高精度导航定位场合。

关键特性 KEY FEATURES

- 采用多馈点技术设计，保证了右旋圆极化和相位中心性能，降低测量误差的影响；
- 天线单元无源增益高，方向图波束宽，确保低仰角信号的接收效果；
- 前置滤波，噪声系数低，抗干扰能力强；
- IP67 防护，为天线长期在野外工作提供了保障。

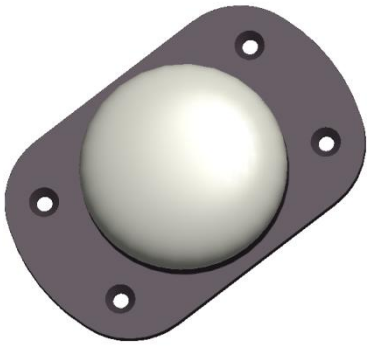
主要技术指标 SPECIFICATIONS

天线 ANTENNA		
天线结构 Patch Architecture	双馈点，层叠结构 Dual Feed, Dual Stacked Patch	
支持卫星信号 Supported positioning signal bands	GPS：L1/L2/L5; BDS：B1/B2/B3; GLONASS：G1/G2/G3; Galileo：El/E5a/E5b L-Band	
最大增益 Peak Gain*	≥4.0dBi@Fc, with100mm ground plane	
极化方式 Polarization	RHCP	
轴比 Axial Ratio@zenith	≤1.5dB	
水平面覆盖角度 Azimuth Coverage	360°	
特性阻抗 Impedance	50 ohm	
低噪声放大器 LNA		
工作频段 Frequency Range	1164MHz~1286MHz , 1525MHz~1615MHz;	
低噪放增益 LNA Gain*	38±3.0dB （Typ. @25° C）	
噪声系数 Noise Figure*	≤2.0 dB@25° C , Typ.（Pre-filtered）	
输出驻波比 Output VSWR	≤1.5:1 typ. 1.8:1max	
工作电压 Operation Voltage	3.0~16V DC	
工作电流 Operation Current	≤45mA	
ESD 保护 ESD circuit protection	15KV air discharge	
带外抑制 Out-of-Band Rejection	L5/E5/L2/G2/B2	<1050MHz: >55dB <1125MHz: >30dB >1350MHz: >45dB
	L1/E1/B1/G1	<1450MHz: >40dB >1690MHz: >40dB >1730MHz: >45dB
机械和环境 MECHANICALS & ENVIRONMENTAL		

天线尺寸 Dimension	119.38mm*76.2mm*27.0mm
射频输出接口 Connector	TNC (Female)（接受定制）
天线罩材料 Radome	ABS+PC
基座材料 Base	Aluminum alloy 6061-T6
产品重量 Weight	≈185g
安装方式 Attachment Method	Four screw holes
工作温度 Operating Temp	－40℃～＋85℃
储存温度 Storage Temp	－45℃～＋85℃
湿度 Humidity	95% No-condensing
防水 Waterproof	Expected IP67
振动 Vibration	3 axis, sweep = 15 min, 10 to 200Hz sweep: 3G
冲击 Shock	Vertical axis:50G, other axes:30G

Remark:*1. Peak Gain and Freq with the ground plane size will change. *2. LNA gain does not include coaxial cable loss .

1.1 Antenna Picture



上图型号：BWGNSSGNX120-27T

（可定制）

***注： 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。**

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).

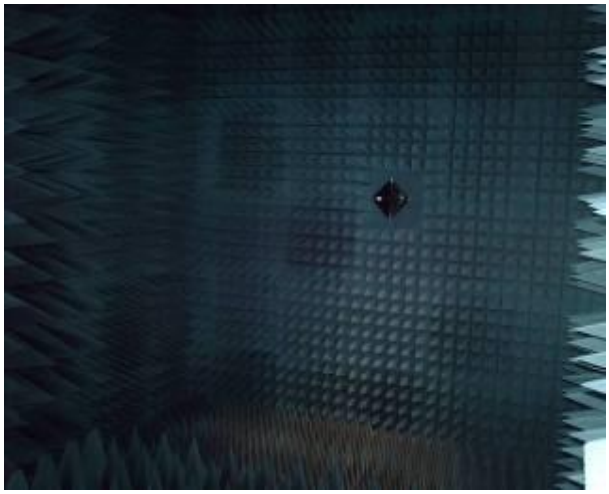


Figure.2

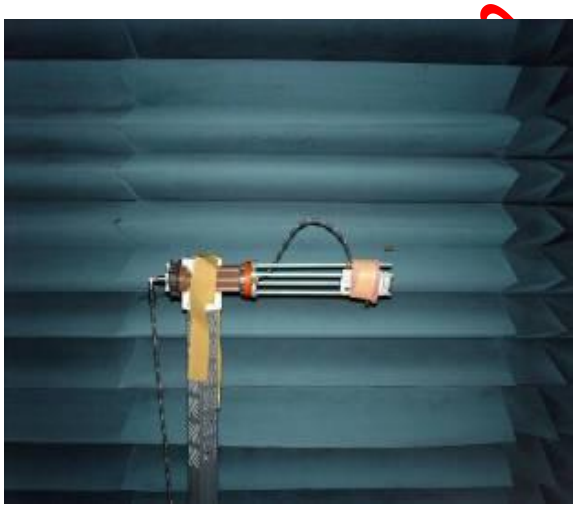


Figure.3

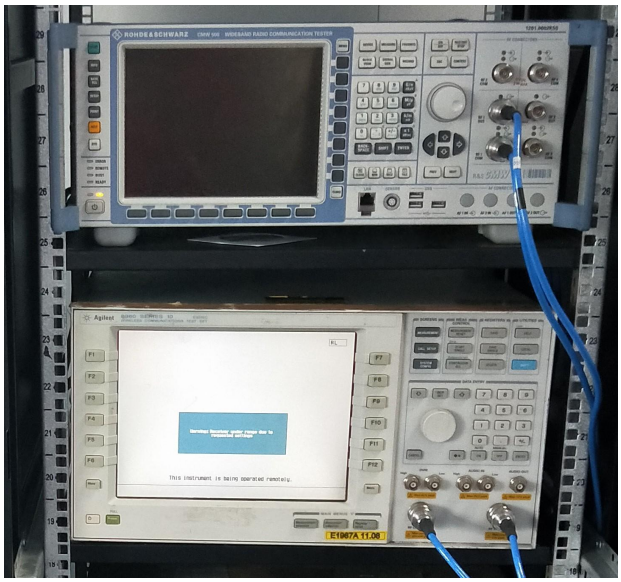


Figure.4

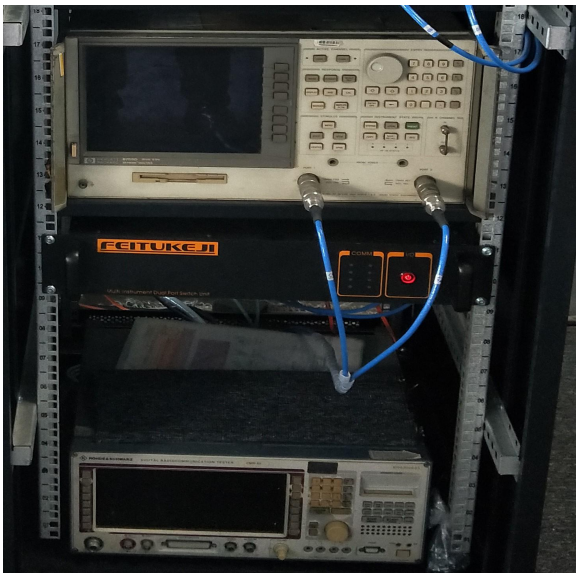
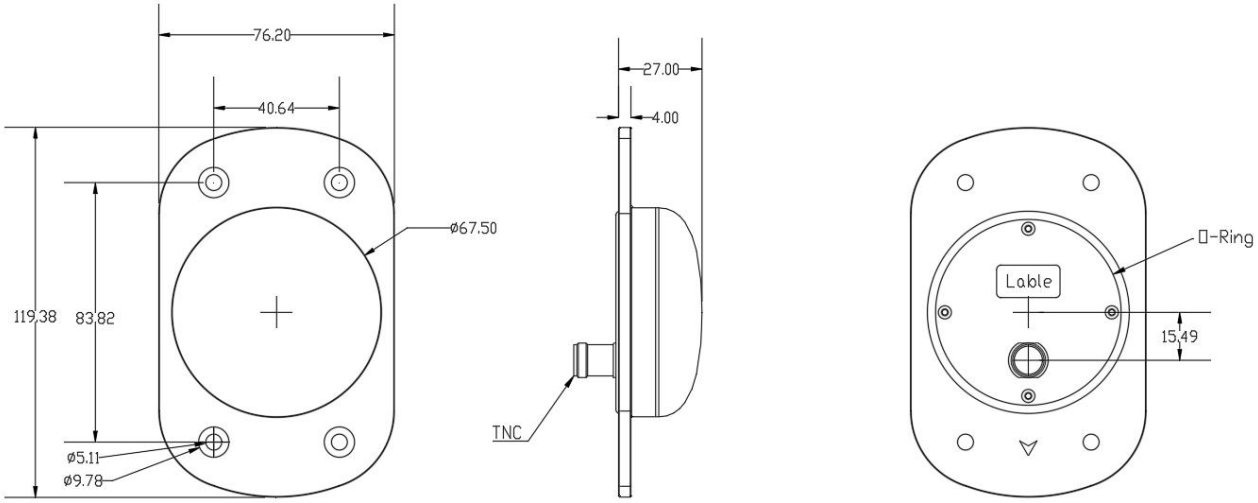


Figure.5

3.Mechanical Specification

3.1 Assembly Drawing



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