

LKY2202A GNSS Antenna

一、产品技术规格 Product Specifications--LKY2202A GNSS antenna

电气参数 Electrical Specifications

天线性能 Antenna Performance

频率范围 Frequency Range (MHz)	1559~1610.5 频率覆盖 GPS L1 及 Galileo G1
最大增益 Gain (dBi)	≥ 4
水平面覆盖角度 Horizontal beam width	360°
垂直波束宽度 Vertical beam width	105°
天线轴比 Antenna AR (dB)	≤ 3.0
极化方式 Polarization	右旋圆极化 Right-hand circular polarization
端口阻抗 Port Impedance	50 Ω

LNA 性能 LNA Performance

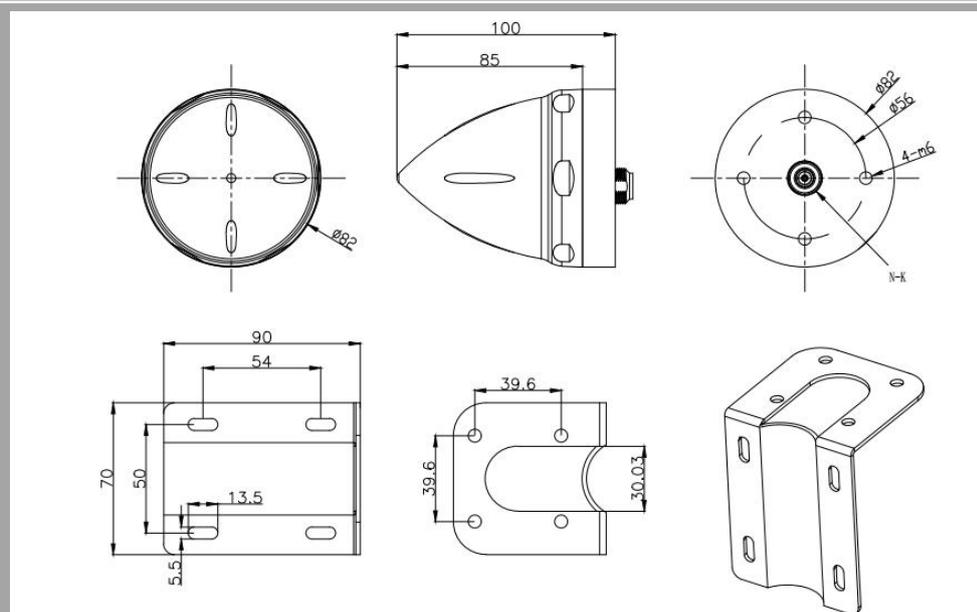
频率范围 Frequency Range (MHz)	1559~1610.5
LNA 增益 LNA Gain (dB)	34 \pm 2
噪声系数 Noise Figure (dB)	≤ 2.0 @-40°C~+85°C
端口阻抗 Port Impedance	50 Ω
1dB 压缩点 Input P1dB	≥ -30 dBm @1525MHz~1625MHz $\geq +33$ dBm @ 10 MHz~787 MHz $\geq +33$ dBm @ 1805 MHz~1880 MHz $\geq +33$ dBm @ 1930 MHz~1990 MHz $\geq +33$ dBm @ 2110 MHz~2180 MHz $\geq +33$ dBm @ 2620 MHz~2690 MHz
带外抑制 (dB) Out Of Band Rejection	> 50 dBc @ 1475~1525 MHz > 70 dBc @ 1575.42 \pm 100 MHz
电压驻波比 VSWR	≤ 1.8
工作电压 Operating Voltage (V)	5 \pm 1.5 DC
工作电流 Operating Current (mA)	≤ 35 @5V
峰值电流 Peak Current (mA)	≤ 100
电磁兼容性 EMC Compliance	ETSI-EN 301 489 -1 V1.9.2(2011-09)
防雷性能 Lightning protection performance	5 KA, 8/20 us

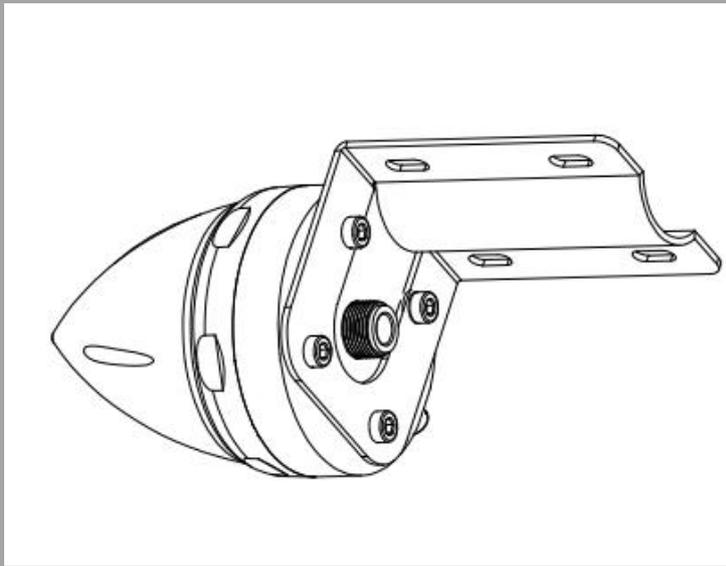
整机性能 Overall Performance

频率范围 Frequency Range (MHz)	1559~1610.5
增益 Gain (dB)	38±3
端口阻抗 Port Impedance	50 Ω
电压驻波比 VSWR	≤1.8
机械规格 Mechanical Specifications	
接头型号 Connector Type	N-K
天线尺寸 Antenna Size (mm)	Φ82×100 (不含接头)
天线净重 Antenna Net Weight	≤225 g
总重量 Total Weight	≤600 g
环境规格 Environmental Specifications	
防水等级 Waterproof Grade	IP67
环保等级 Environmental Protection Grade	RoHS 2011/65/EU GB/T 26572-2011
工作温度 Operating Temperature (°C)	-40~+85
存储温度 Storage Temperature (°C)	-55~+85
相对湿度 Relative Humidity	95% (不冷凝)
MTBF	≥50000h

二、产品结构图 Product Structure Chart

天线及安装支架图 Antenna And Mounting Bracket Drawing



整体安装图 Overall Installation Drawing**三、装箱清单 Packing List**

天线 Antenna (pcs)	1
安装支架 Mounting Bracket (pcs)	1
安装螺钉 Mounting Screws (pcs)	4
安装卡箍 Install The Clamp (pcs)	2
安装螺母 Install The Nut (pcs)	4
产品规格书 Product Specification (pcs)	1
安装说明书 Installation Instructions (pcs)	1