



## Low Cost L1 GG Antenna

### Benefits

Receives L1 GPS / GLONASS and L-band signals

Good carrier-phase performance

Low cost precision antenna solution for use with OEMStar™ and OEM6™ receivers

### Features

Magnetic and screw mounting supported

Integrated 4.98 m (196") cable with SMA connector to simplify installation

33 dB low noise amplifier

2.5 to 24 VDC operating voltage

RoHS compliant

### Small Form Factor

This small form factor antenna measures <69 mm in diameter by <20 mm in height, accepts an input voltage of 2.5 to 24 VDC and consumes less than 40 mA.

### Multi-Constellation for Enhanced Positioning

The ANT-26C1GOA-196MNSB antenna receives GPS and GLONASS L1 as well as L-band signals.

### Suitable For Use With GL1DE® Applications

The antenna is suitable for use in applications using NovAtel's GL1DE. GL1DE optimally combines L1 code and L1 phase data to produce a positioning solution well suited for applications such as agricultural guidance, where pass-to-pass repeatability is critical.

If you require more information about our antennas, visit [novatel.com/products/gnss-antennas](http://novatel.com/products/gnss-antennas)



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## Performance

### 3 dB Pass Band

L1 GPS	1575.42±15.0 MHz (typ)
L1 GLONASS	1609.0 ±7.0 MHz (typ)
L-band	1542.5 ±14.0 MHz (typ)

**LNA Gain** 33 dB (typ)

### Gain at Zenith (90°)

L1 GPS	+5.0 dBic (min)
L1 GLONASS	>+3.3 dBic (min)
L-band	+1.9 dBic (min)

### Gain Roll-Off (from Zenith to Horizon)

L1 GPS	7 dB
L1 GLONASS	7 dB
L-band	7 dB

**Noise Figure** 3.0 dB (typical)

**VSWR** ≤1.5 : 1

**Nominal Impedance** 50 Ω

## Physical and Electrical

**Dimensions** 68.81 dia x 19.31 mm

**Weight** 184 g

### Power

Input Voltage +2.5 to +24 VDC  
Power Consumption <40 mA

### Connector

SMA Male on 4.98 m (196") cable

## Environmental

### Temperature

Operating -40°C to +85°C  
Storage -55°C to +85°C

### Vibration

>30 Gs

### Leakage

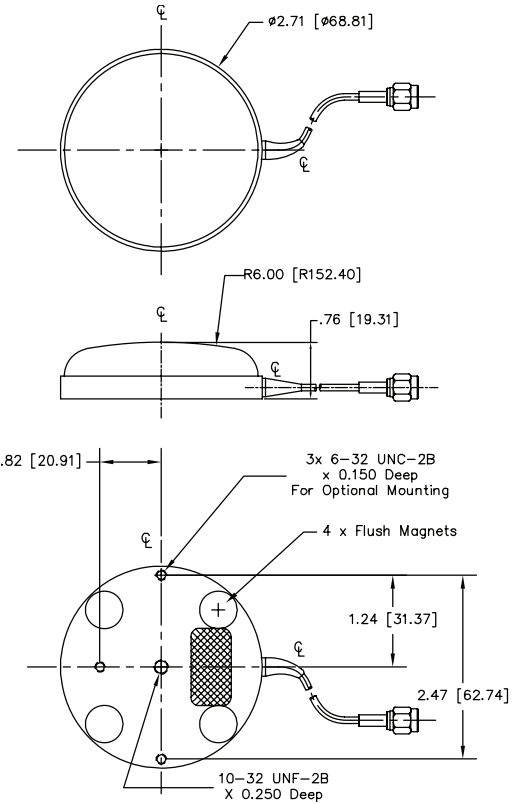
Hermetically Sealed

### RoHS

EU Directive 2002/95/EC

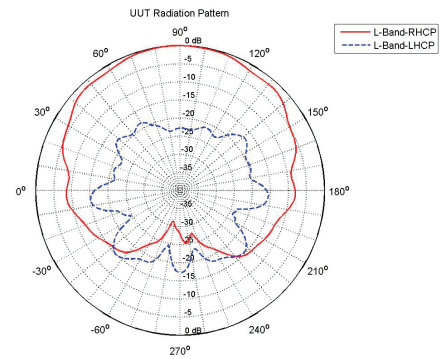
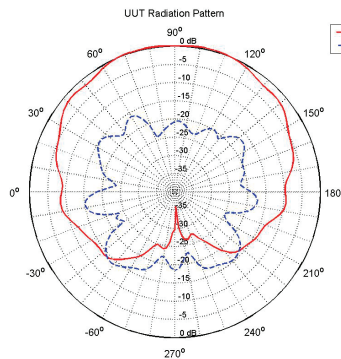
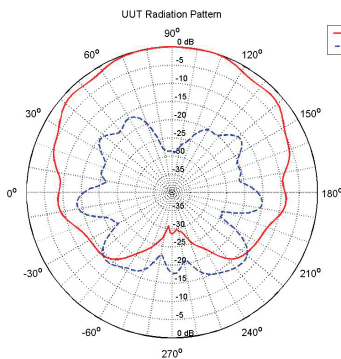
### Designed to meet:

FAA TSO-C144, DO-160D, DO-228,  
MIL-C-5541, MIL-E-5400,  
MIL-I-45208A, MIL-STD-810 and  
SAE J1455 specifications



## Elevation Gain Patterns

These plots represent the typical right-hand polarized (RHP) and left-hand polarized (LHP) normalized radiation patterns for the L1 GPS, GLONASS and L-band frequencies, respectively.



Revision 3 - Specifications subject to change without notice.  
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[www.novatel.com](http://www.novatel.com)

