# GPS/GLONASS High Performance Asset Tracking & Time Sync Micro Helix Antenna

PCTEL's GEO-GNSS-AC-S1 is a robust, active, high performance antenna covering both GPS L1 and GLONASS L1 frequency bands. PCTEL's proprietary filtering design allows wideband coverage while achieving superior out-of-band rejection. This antenna is ideal for performance in critical asset tracking and network timing synchronization applications.



GEO-GNSS-AC-S1

#### **Applications**

- Defense Radio Communications
- · Handheld Devices
- Body Worn Asset Tracking
- Public Safety Emergency Responders
- Industrial Network Synchronization

#### **Features**

- GPS L1 & GLONASS L1 Frequencies
- Custom-Tuned Micro Helix Element
- · High Rejection Filtering
- 26.5 dB Gain
- IP67\* Ingress Protection

#### **Antenna Element Electrical Specifications**

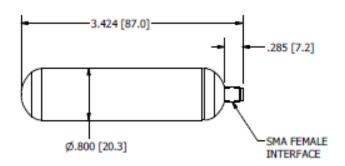
Part Number	Frequency Band	Nominal Gain	Polarization	Nominal Impedance
GEO-GNSS-AC-S1	1574-1610 MHz	-2.0 dBic @ GPS L1 -2.5 dBic @ GLONASS L1	Right Hand Circular	50 ohms

## **Mechanical Specifications**

Antenna Dimensions (dia x height)	Weight	Radome Material	Connector
0.8 x 3.4 inches (20.3 x 87.0 mm)	1.23 oz (35 g)	ABS (Black)	SMA Female

### **Environmental Specifications**

Temperature Range	Ingress Protection
-40°C to +85°C operating	IP67*



<sup>\*</sup> When installed according to the manufacturer's installation instructions.

# Low Noise Amplifier Specifications

pical)				
Out-of-band Rejection: f0 = 1586 MHz				
≥ 40 dBc				



