

## GPS ANTENNA Model GPSA-X001

The SOSI Series X001 GPS Antennas are designed for use with deep diving AUVs, buoys or other autonomous systems that are required to operate at depth but periodically surface to determine position and reset their navigation system. These antennas are designed to receive GPS satellite data only while on the surface, but can survive routine submergence to depths of 3000 or 6000 meters. Their proven housing and antenna designs ensure reliable operation that you can depend upon.



### Technical Specifications

- Frequency 1575.42 ±1.02 MHz (L1)
- Polarization RHCP
- Impedance 50 Ohms
- Power Handling 100 mW (+20 dBm)
- Axial Ratio (max) 3.0 dB
- Supply Voltage +3.0 ±.2 Vdc @20 mA max
- Gain (Preamp) 29 dB ±3 dB
- Band Reject -30 dB @ 1675 MHz
- Gain (Antenna) +2.0 dBic 0 ≤ ∅ < 75°  
 -10 dBic ∅ < 90° @ horizon

### Mechanical Specifications

- Finish: Hard Coat Anodize
- Weight (air): 18 oz.
- Weight (sea water) 6 oz.
- Height: 5.5 inches
- Diameter: 3.25 inches
- Material: 6061 Alum., 316 SSSL, Glass, Ultem
- Connector (DGO): C10C0001G01
- Mating Connector: C10C1001G01
- Depth Rating; 3000, 6000 meters

