

Trident Sensors' Active L1/L2/GLONASS GPS Antenna



Features

- Pressure rated to 6,000 m
- Active L1/L2/GLONASS GPS antenna element
- Rapid position acquisition at the sea-surface
- Small, light-weight, low drag

D.G. O'Brien Connection

- Allows antenna to be mounted independently of electronics
- Straight or right-angled cable assemblies available

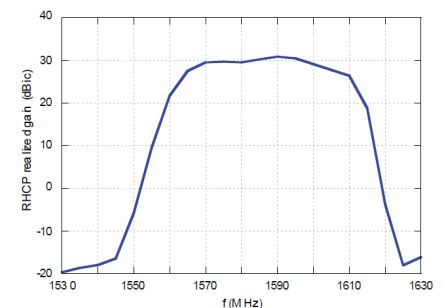
Feed-through Connection

- For antenna mounting directly onto pressure housing
- 7/16" UNF thread

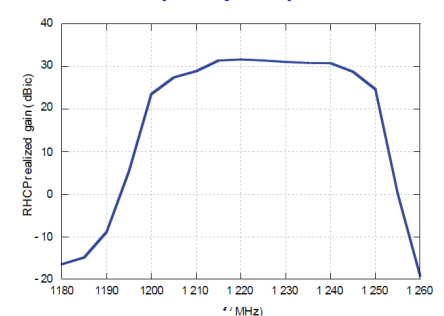
Applications

- AUVs
- ROVs
- Drifters
- Profiling floats
- Manned submersibles
- Location & recovery
- Precision navigation
- Precision timing
- Military & security
- Navigation devices

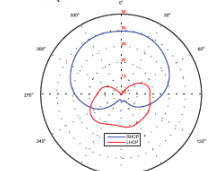
L1 Band Frequency Response



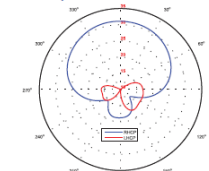
L2 Band Frequency Response



L1 Gain (dBic)



L2 Gain (dBic)



Electrical Specifications

Parameter	Design Specifications
Frequency	1217-1250 MHz (L2) 1565-1610 MHz (L1)
Polarization	RHCP
Passive peak gain	2 dBic @ 1227 MHz (typical) 2 dBic @ 1575 MHz (typical)
Total gain	30 dBic @ 1227 MHz (typical) 28 dBic @ 1575 MHz (typical) 28 dBic @ 1602 MHz (typical)
Out-of-band rejection	>50 dB
Current drain	25 mA (typical)
Voltage	3-12 V
Noise figure	1.5 dB (typical)
RF interference rating	50 V/m out of band
Operating temp.	from -40°C to 85°C

	Active GPS	D.G.O. Active GPS
Length (excl. thread)	105 mm	128 mm
Diameter (housing)	40 mm	40 mm
Thread Length	19 mm	12 mm
Thread	7/16" - 20 UNF	5/8" - 18 UNF
Weight*	~90 g	~135 g
Face-seal O-ring	BS017	N/A
Cable*	RG-316	RG-58, CN-4
GPS Connectors*	MCX or SMA Plug	Coax 1131016-101
Iridium Connectors*	U.FL, MCX or SMA	

* Approximate values as customers' requirements vary. Please specify desired cable length & connectors. Other connectors may be available.

