

RC-67TL GNSS Antenna

Model: RC-67TL

Compact & Sensitive GPS/GLONASS/BEIDOU/GALILEO Antenna with Excellent Signal Amplification

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RC-67TL is our latest integration of a high performance antenna covering with GPS L1, GLONASS L1, BEIDOU B1, GALILEO E1, and QZSS L1, combined a power-saving low noise amplifier within a low profile, extremely compact, and fully waterproofs enclosure. When connected to the GPS receiver, it can provide both excellent signal amplification and Band Pass Filtering/Saw Filtering functions for Out-of-Band Attenuation of the receiver.

Coming up with its small size and toughness, RC-67TL is featuring for its high gain performance. This design provides not only for the automatic vehicle locating/navigating demand, but also maintains the high signal receiving ability/stability in virtually any severe environment. RC-67TL's low noise figure, compact construction, fully waterproof, excellent temperature durability, ultra sensitivity and power gain capability will completely fulfill your flawless criterion.

Applications

- Marine GPS
- Weather Balloon
- Utility Electric Grid Synchronization
- Security Surveillance / Banking / Financial Time Stamping / Carrier Network Timing

Features

- GPS L1, GLONASS L1, BEIDOU B1, GALILEO E1, and QZSS L1 Frequencies
- Compact Construction/ Low Profile/ Fully Weatherproof/ Designed for harsh environment
- Special Cone Housing reduces the effect of snow or dust coverage, as well as bird perching
- Outstanding Out of Band Attenuation capability
- Anti-theft locking nut
- Ultra-High Sensitivity

Specification:

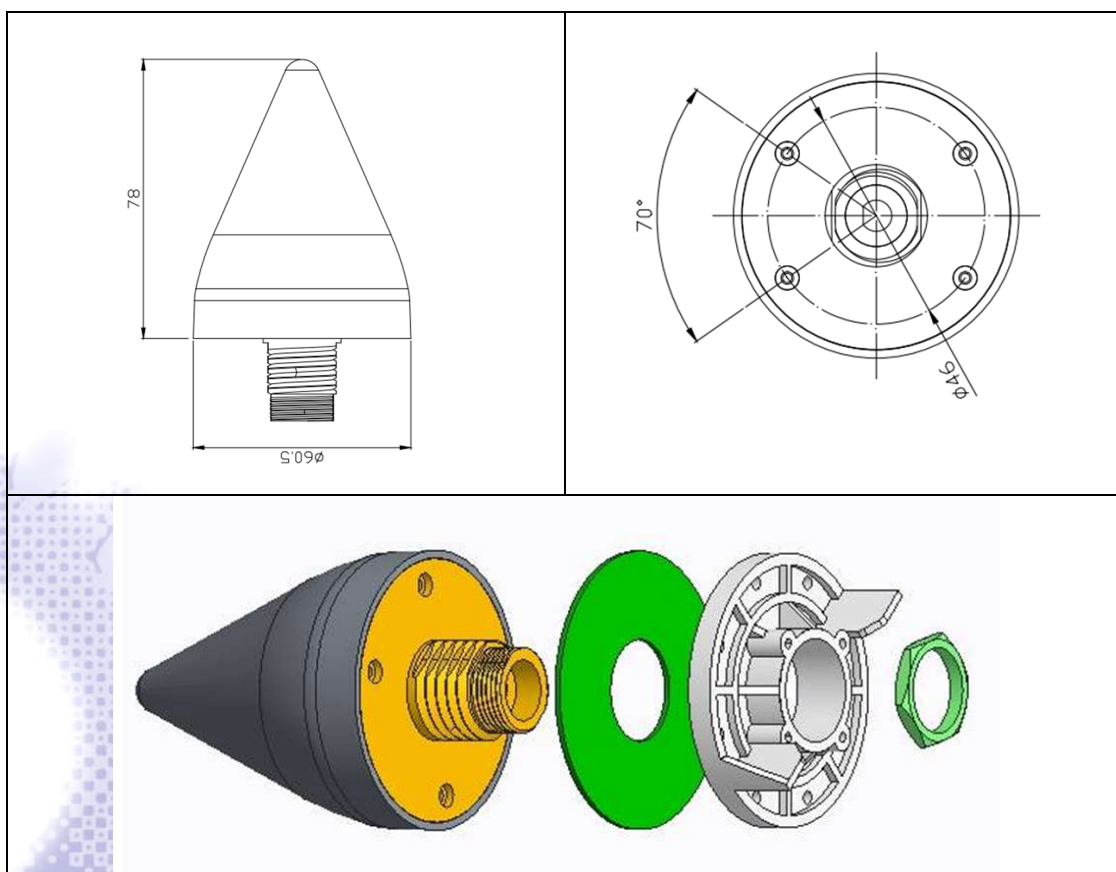
Physical Condition		
Construction:	Polycarbonate radome detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof.	
Dimension:	60.5 mm in diameter x 78mm in height.	
Color	Standard in ivory with 0.8 inch threaded wing nut (standard accessory)	
Mounting:	Bulkhead mount with 0.8 inch threaded wing nut(standard accessory)	
Connector		
RF Cable:	5 meters RG174/U (standard) cable & length (optional)	
Pulling Strength:	6 Kg @ 5 sec.	
Connector Available:	BNC, TNC, GT5, MCX(OSX), SMA, SMB or SMC. Straight or right angle.	
Optional Adapters:	Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)	
Antenna Element		
Polarization:	R.H.C.P. (Right Hand Circular Polarization)	
Gain at Zenith:	1575.42 MHz	2 dBic typical
	1561 MHz	-0.5 dBic typical
	1598~1606 MHz	0.6 dBic typical
	Mounted on the 70mm x 70mm square ground plane	
Axial Ratio:	3 dB max. Mounted on the 70mm x 70mm square ground plane	
Low Noise Amplifier		
Gain:	35dB @ 5V typically (1575MHz)	
Band Width:	51 MHz min. @ S11≤-10 dB	
Noise Figure:	1.6 dB Typical	
Supply Voltage:	3~5.5V DC	
VSWR:	2.0 max.	

Current Consumption:	12 mA Typical
Out of band rejection	$f_0=1586\text{MHz}$, $f_0\pm 50\text{MHz}$: $\geq 34\text{dB}$ $f_0\pm 60\text{MHz}$: $\geq 60\text{dB}$
OVERALL PERFORMANCE (Antenna Element, LNA & Cable)	
Center Frequency:	1575.42 MHz & 1561 MHz & 1598~1606 MHz
Gain:	At 90° $35 \pm 3\text{dB}$ (Cable loss) note:1. Mounted on the 70mm x 70mm square ground plane
VSWR:	2.0 max.
Output Impedance:	50 ohm
Environmental conditions	
Operating Temperature:	-40°C~+85°C
Storage Temperature:	-40°C~+90°C
Relative Humidity:	95% non-condensing

Note:1:Cable loss-(-1.2dB/m)

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Mechanism:



Unit: mm

Tolerance: 0.3mm