Marine GPS Antenna

MODEL: MA-680L

Tapered size and ruggedness design, demand of vehicle locating and marine navigation GPS antenna that will sustain harsh environment.



- Low noise figure
- Fully weather proof.
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability
- FB3A SUS L-Mounting 1"-14 UNS

The antenna system MA-680L is the integration of the high performance GPS patch antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +3~5V DC antenna power it provide excellent signal amplification and out-band-rejection for that receiver.

Features:

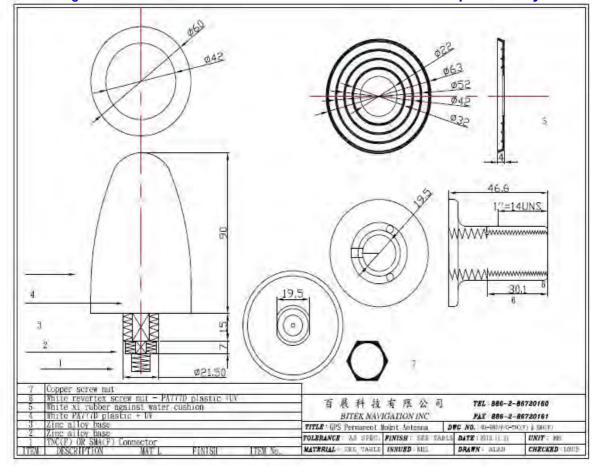
GPS antenna with double threaded bolts and through holes for cable routing with course & fine treaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and un-authorize removal.

Specifications:

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PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	60mm(Dia.) x 140mm(H)
Weight:	200grams (w/o cable & connector).
Color:	Standard in ivory white, other colours available upon request.
Mounting:	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).
Mounting Adapters	Pole mount to 1"-14 UNS threaded mast
Base mounting	FB3A SUS L-MOUNTING 1"-14 UNS
Cable & Connector	
RF cable:	SMA(M) +10 meter RG58 +TNC(M) (standard) other length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector	SMA(F) or TNC(F)

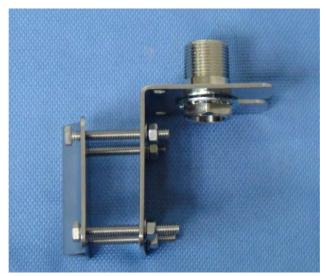
Center Frequency: 1575.42 MHz +/-1.023 MHz Polarization: R.H.C.P. (Right Handed Circular Polarization). Absolute Gain @ Zenith: +5 dBi typical. Gain @ 10° Elevation: -1 dBi typical. Axial Ratio: 3 dB max. Output VSWR: 1.5 max Output Impedance: 50 ohm Low Noise Amplifier
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Low Noise Amplifier
Center Frequency: 1575.42 MHz
Power Gain: 28db +/-4.5db
Bandwidth: 2 MHz min.
Noise Figure: 1.5 min.
Outer Band Attenuation: 20 dB min. @ Fo +/-50 Mhz.
Supply Voltages: 2.5~5.5V DC.
2.5V: 6.6mA Typ. 3V: 8.6mA Typ. 4V: 12.6mA Typ. 5V: 16.6mA Typ.
Output Impedance: 50W ohm
Overall Performance: (antenna element, LNA & coax cable)
Center Frequency: 1575.42 Mhz.
At 90° vertical to sky 30 ± 4.5 dBi Gain: (cable loss) Note:1 Mounted on the 60mm x 60mm square ground plane
Noise Figure: 2.0 max.
Axial Ratio: 3 dB max.
Bandwidth: 2MHz min.
VSWR: 2.0 max.
Output Impedance: 50W ohm
Environmental
Operating Temperature: -40°C~ +85°C.
Operating Temperature: -40°C~ +85°C. Storage Temperature: -50°C~ +90°C.

 $[\]ensuremath{\ast}\xspace$ This specification is subject to change without prior notice



Marine Antenna Base mounting

MODEL: FB-3A



1"-14 UNS threaded mast SUS304/C3604

Locks on the truck rear-view mirror or on iron stand or flagpole

