

# Marine GPS Antenna

## MODEL: MA-700L

Concinnity and Solid design for GPS Marine Antenna  
with Advanced technology

**Garmin compatible Marine GPS Antenna**



GPS Antenna : 90.5mm(Dia) × 108.5mm(H)

**MA700** is designed for the Marine Vessels mast or tall buildings that require long extra cables without signal constraint to the GPS receivers. **MA700L** is not only hidden in a durable and waterproof cover, but also cable is protected by a base which can prevent damage. The special design for **MA700** is really delicate, compact and reliable. Besides that have concinnity and compacted design for base. It is the integration of the high performance GPS patch antenna and a low noise amplifier into an extremely fully waterproof enclosure and when connected to a GPS receiver with 2.5~5.5VDC antenna power, it can provide excellent antenna signal amplification and out-band filtering with rejection for that receiver at 3V DC or 5V DC input Voltage.

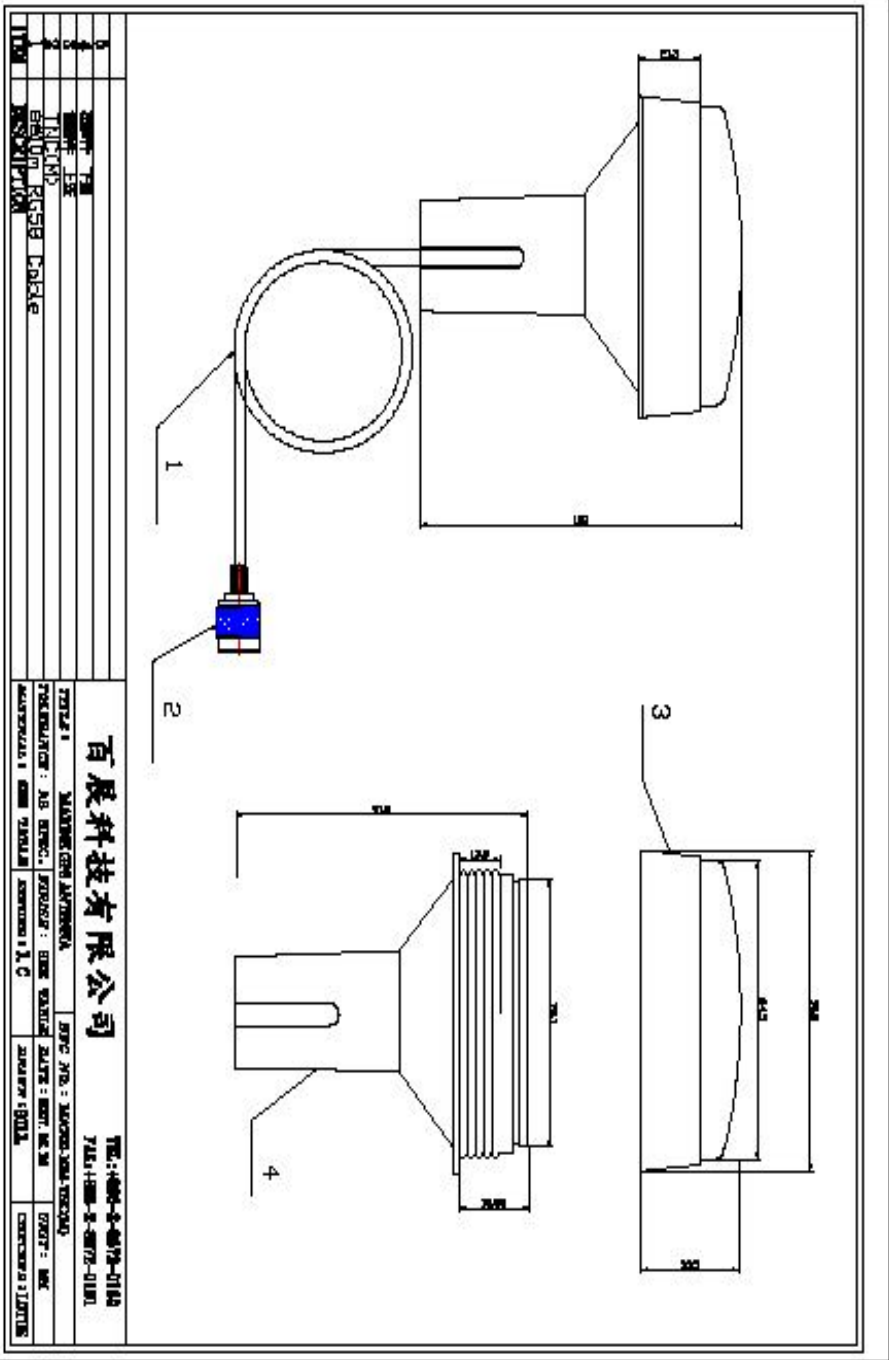
| Specifications             |   |
|----------------------------|---|
| <b>Antenna Element</b>     |   |
| Center Frequency           | 1575.42 MHz +/-1.023 MHz                      |
| Polarization               | R.H.C.P. (Right Handed Circular Polarization) |
| Absolute Gain @ Zenith     | +5 dBi typical                                |
| Gain @ 10° Elevation       | -1 dBi typical                                |
| Axial Ratio                | 3 dB max.                                     |
| Output VSWR                | 1.5:1 max.                                    |
| Output Impedance           | 50 ohm  |
| <b>Low Noise Amplifier</b> |   |
| Center Frequency           | 1575.42 MHz +/- 1.023 MHz                     |
| Power Gain                 | 28 +/-4.5dB                                   |
| Bandwidth                  | 2 MHz min.                                    |

|   |   |
|---|---|
| Noise Figure  | 1.5 max.  |
| Outer Band Attenuation  | 20 dB min. @ Fo +/-50 MHz   |
| Supply Voltages   | 2.5 to 5.5V DC  |
| Current Consumption   | 13mA@ 3.0V DC, 18mA@ 5.0V DC  |
| VSWR  | 1.5 max.  |
| Output Impedance  | 50 ohm  |
| <b>Overall Performance: (antenna element, LNA &amp; coax cable)</b> |   |
| Center Frequency  | 1575.42 MHz   |
| Gain  | 30 +/-4.5dB   |
| Noise Figure  | 2.0 max.  |
| Bandwidth   | 2 MHz min.  |
| Axial Ratio   | 3 dB max.   |
| VSWR  | 1.5 max.  |
| Output Impedance  | 50 ohm  |
| <b>Environmental Conditions</b>                                     |   |
| Operating Temperature   | -30°C to +80°C  |
| Storage Temperature   | -40°C to +100°C   |
| Relative Humidity   | 40% to 95% non-condensing   |
| Water Resistance  | 100% waterproof   |
| <b>Physical Constructions</b>                                       |   |
| Constructions   | Enclosure Center feeds TNC connector for antenna output                                     |
| Dimensions  | Antenna : 90.5mm(Dia.) × 108.5mm(H)   |
| Weight  | 150 grams (without cable)   |
| Base mounting   | FB3A SUS L-MOUNTING 1"-14 UNS   |
| <b>Cable &amp; Connector</b>  |   |
| RF  | 10 meter RG58/U connectors are hermetically molded plastics for waterproof and stain relief |
| Cable Pulling strength  | 12Kg for 5sec.  |
| Connector available   | TNC other types (optional)  |

\* This specification is subject to change without prior notice

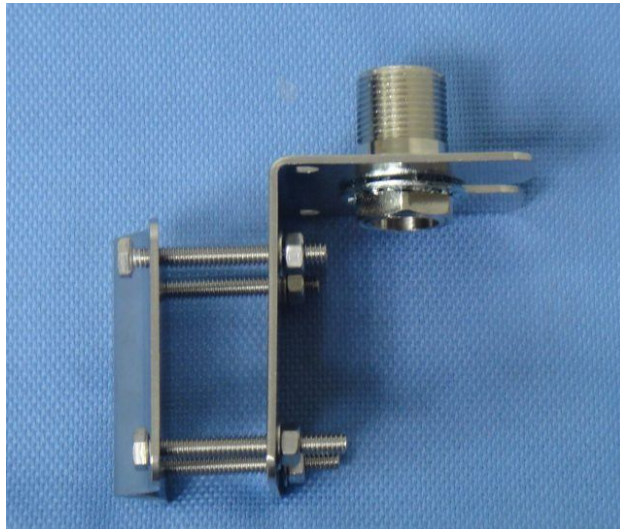
Data Updated: NOV 01, 2012





# 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

