#### **Marine GPS Antenna**

**MODEL: MA-700P** 

#### High Gain gps antenna 38 ~ 45db



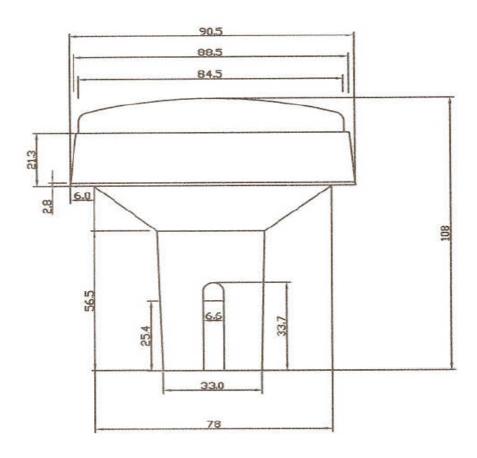
GPS Antenna : 90.5mm(Dia) × 108.5mm(H)

**MA700P** is designed for the Marine Vessels mast or tall buildings that require long extra cables without signal constraint to the GPS receivers. **MA700P** 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 **MA700P** 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 3.0~5VDC antenna power, it can provide excellent antenna signal amplification and out-band filtering with rejection for that receiver at 3V~5 DC input Voltage.

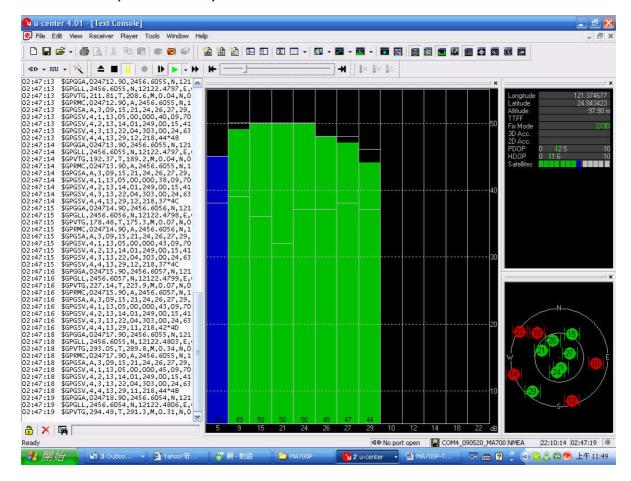
out-band intering with rejection for that receiver at 5v~5 DC imput voltage.		
Specifications		
Antenna Element		
Center Frequency	1575.42 MHz +/-1.023 MHz	
Polarization	R.H.C.P. (Right Handed Circular Polarization)	
Absolute Gain @ Zenith	+5 dBi typical Based on 70×70mm ground plane	
Gain @ 10° Elevation	-1 dBi typical	
Axial Ratio	3 dB max.	
Output VSWR	1.5:1 Typ.	
Output Impedance	50 ohm	
Low Noise Amplifier		
Center Frequency	1575.42 MHz +/- 1.023 MHz	
Power Gain	38db(3V) / 45db(5V) (Without cable +25°C±10°C)	
Bandwidth	10 MHz min.	
Noise Figure	1.6 Typ.	
Outer Band Attenuation	20 dB min. @ Fo +/-50 MHz	
Supply Voltages	3.0~5.0V DC	
Current Consumption	21mA@ 3.0V DC,25mA@ 5.0V DC	

VSWR	1.5 max.	
Output Impedance	50 ohm	
Overall Performance: (antenna element, LNA & coax cable)		
Center Frequency	1575.42 MHz	
Gain	38db(3V) / 45db(5V) (Without cable +25℃±10℃)	
Noise Figure	2.0 max.	
Bandwidth	10 MHz min.	
Axial Ratio	3 dB max.	
VSWR	1.5 max.	
Output Impedance	50 ohm	
Environmental Conditions		
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	
Physical Constructions		
Dimensions	Antenna: 90.5mm(Dia.) × 108.5mm(H)	
W · 1.	450	
Weight	150 grams (without cable)	
Standard Mounting	Concinnity and Solid design	
Cable & Connector		
RF	45CM-N(F)	
Cable Pulling strength	12Kg for 5sec.	
Connector available	N(F) (standard), SMA(F) / TNC(F) other types (optional)	
*This specification is subject to change without prior notice Data Updated: Mar 11,		

# User selectable datum \*Pole mount to 1"-14 UNS threaded mast



# MA700P(38db/3V) -30M RF200 Cable TEST



# MA700P(38db/3V)-80M RF200 Cable TEST

