Marinr GPS Antenna

MODEL: MA-700B

Concinnity and Solid design for GPS Marine Antenna with Advanced technology

Garmin compatible Marine GPS Antenna



GPS Antenna: 90.5mm(Dia) x 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. MA700 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	
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
Gain @ 10° Elevation	-1 dBi typical
Axial Ratio	3 dB max.
Output VSWR	1.5:1 max.
Output Impedance	50 ohm
Low Noise Amplifier	
Center Frequency	1575.42 MHz +/- 1.023 MHz
Power Gain	28 +/-4.5dB
Bandwidth	2 MHz min.

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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		
Overall Performance: (antenna element, LNA & coax cable)			
Center Frequency	1575.42 MHz		

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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
Environmental Conditions	

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 IPX7

Physical Constructions		
Constructions	Enclosure Center feeds TNC connector for antenna output	
Dimensions	Antenna: 90.5mm(Dia.) x 108.5mm(H)	
Weight	150 grams (without cable)	
Standard Mounting	Concinnity and Solid design	

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Cable & Connector	
RF	TNC(M)-10 meter RG58/U –BNC(M) other types (optional)
Cable Pulling strength	12Kg for 5sec.
Connector available	30CM-TNC(F) other types (optional)

^{*}This specification is subject to change without prior notice

Data Updated: Jan 06, 2007

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

