



Marine GPS Antenna

MODEL: SA-200

GPS antenna with low noise amplifier for marine application



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SA-200 is the integration of the high performance GPS patch antenna and a state-of-the-art low noise amplifier into an extremely compact/fully waterproof enclosure and when connected to a GPS receiver with +5VDC antenna power it can provide excellent antenna signal amplification and out-band filtering with rejection for that receiver.

Specification:

Physical Constructions:	
Constructions:	Polycarbonate radome enclosure (top & bottom base with rubber O-ring inbetween) Center feeds TNC connector for antenna output
Dimensions:	4.5" in diameter & 2.9" in height
Weight:	220 grams (without cable)
Standard Mounting:	External flagpole type mast mount 1"-14 threaded mast.
Optional mounting plate:	1. Cabin roof-mount with stainless steel base & shaft 2. Rail side mount with stainless rod
Cable & Connector:	

Connector on the antenna:	TNC jack and other types are optional
Cable (optional):	10 meters of RG58 A/U with TNC plug on one end and BNC plug on the other. 15~50 meters are available for options. Cable connectors are hermetically molded plastics for waterproof and stain relief.
Cable Pulling strength:	12Kg for 5sec.
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 Ω
Low Noise Amplifier:	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Power Gain:	28 dBm typical
Bandwidth:	2 MHz min.
Noise Figure:	1.8 max.
Outer Band Attenuation:	20 dB min. @ Fo +/-50 MHz.
Supply Voltages:	4.0~6.0V DC
Current Consumption:	28+/-3mA
Output Impedance:	50 Ω
Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency:	1575.42 MHz.
Gain:	27 dB typical
Noise Figure:	2.0 dB max.
Bandwidth:	2 MHz min.
Axial Ratio:	3 dB max.
VSWR:	1.5 max.

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Output Impedance:	50Ω
Enviromental Condition:	
Operating Temperature:	-30°C~ +85°C.
Storage Temperature:	-30°C~ +85°C.
Relative Humidity:	95% non-condensing.
Water Resistance:	100% waterproof.

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