

# Marine GPS/VHF Antenna

**MODEL: GVA-620L**

**FOR Marine VHF Radio & AIS SYSTEM & Orbcomm**



## GPS antenna Specifications: GA62

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 18.5mm(H)
Weight:	65grams (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).
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)
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 max
Output Impedance:	50 ohm
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.

Current Consumption:	2.5V : 6.6mA Typ. 3V: 8.6mA Typ. 4V: 12.6mA Typ. 5V: 16.6mA Typ.
Output Impedance:	50W ohm
<b>Overall Performance: (antenna element, LNA &amp; coax cable)</b>	
Center Frequency:	1575.42 Mhz.
Gain:	At 90° vertical to sky 30 ± 4.5dBi (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
<b>Environmental</b>	
Operating Temperature:	-40°C~ +85°C.
Storage Temperature:	-50°C~ +90°C.
Relative Humidity:	95% non-condensing.
Water Resistance:	100% waterproof.

### Marine VHF Antenna Specifications:

<b>SUS Whip VHF ANTENNA</b>	
<b>Fr :</b>	<b>156 ~ 165 Mhz</b>
<b>Gain:</b>	<b>0dB</b>
<b>VSWR</b>	<b>2.0:1</b>
<b>Impedence:</b>	<b>50 ohm</b>
<b>Connector:</b>	<b>SMA(M)</b>
<b>Ground</b>	<b>With FB6 Base mounting</b>
<b>Dimension:</b>	<b>35.2mm</b>
<b>Weight:</b>	<b>46g</b>
<b>Cable :</b>	<b>SMA(SBJ)-10M-TNC(M) or other</b>

\* This specification is subject to change without prior notice

Data Updated: OCT.21, 2011

### FB6 SUS L- mounting :





