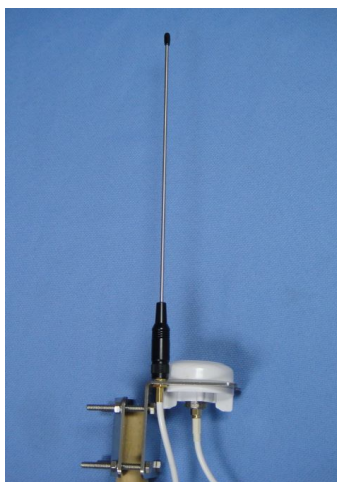


Marine GPS/GLONASS/VHF Antenna

MODEL: GVA-620GL

FOR Marine VHF Radio & AIS SYSTEM & Orbcomm



GPS/GLONASS antenna Specifications: GA62G

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:	TNC(M) +10 meter RG58 +BNC(M) (standard) other length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector	TNC(F)
Antenna Element	
Center Frequency:	1575Mhz & 1596-1610 MHz
Polarization:	R.H.C.P. (Right Handed Circular Polarization).
Bandwidth	10 MHz min. @S11≤-10 dB, 24MHz typ. @S11<-8dB
Gain @ 10° Elevation:	2 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5 max
Output Impedance:	50 ohm
Low Noise Amplifier	
Power Gain:	1570 Mhz : 29db typ 1610 Mhz : 29db typ
Bandwidth:	50 MHz min.
Noise Figure:	1.5 typ
Outer Band Attenuation:	20 dB min. @ Fo +/-50 Mhz.
Supply Voltages:	2.3~5.5V DC.
Current Consumption:	2.5V : 6.6mA Typ. 3V: 10.6mA Typ. 4V: 14.6mA Typ.

	5V: 20.6mA Typ.
Output Impedance:	50W ohm
Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency:	1570 ~1610 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:	10MHz min.
VSWR:	2.0 max.
Output Impedance:	50W ohm
Environmental	
Operating Temperature:	-40°C~ +85°C.
Storage Temperature:	-40°C~ +90°C.
Relative Humidity:	95% non-condensing.
Water Resistance:	100% waterproof.

* This specification is subject to change without prior notice

Data Updated: Sep.10, 2009

Marine VHF Antenna Specifications:

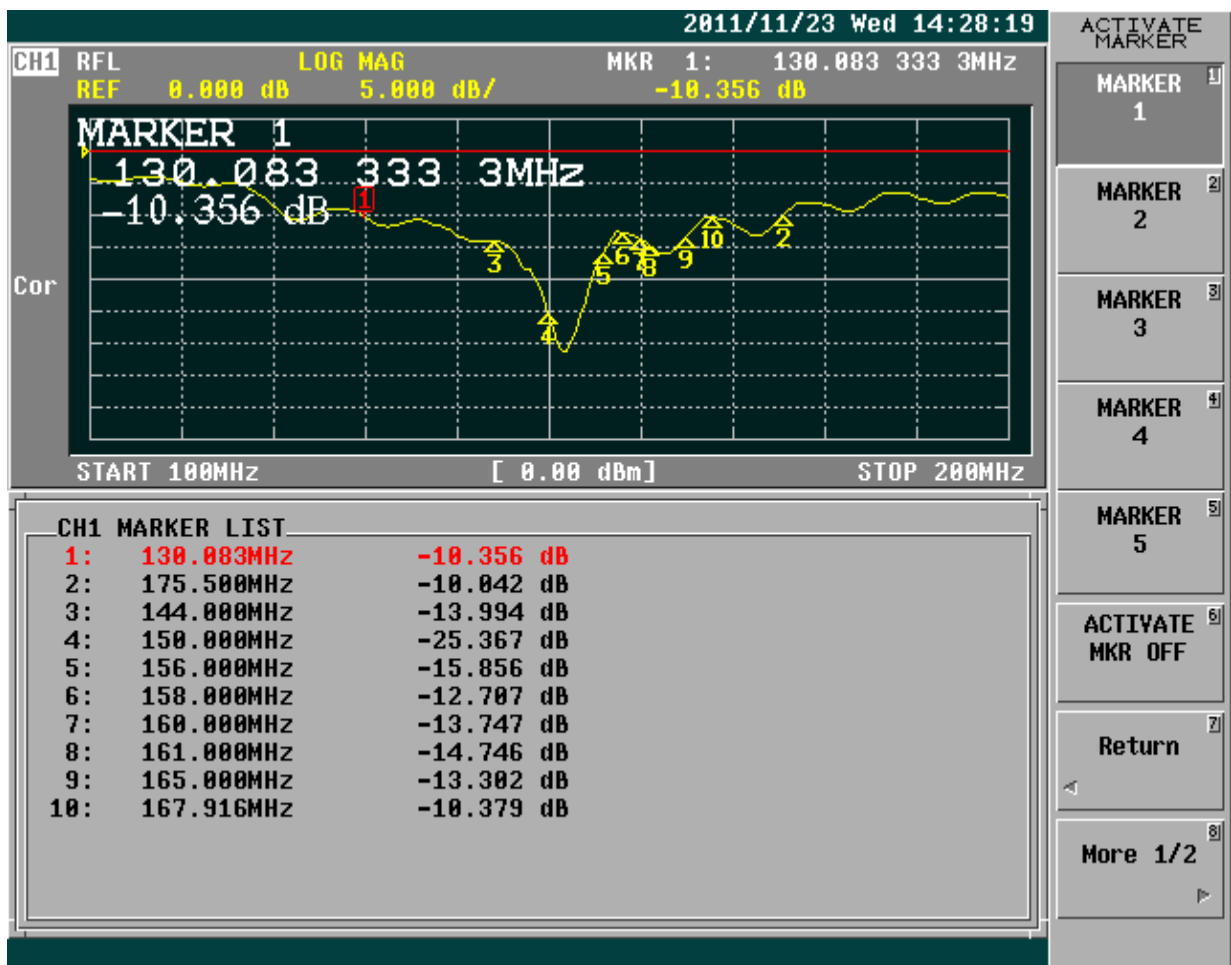
	SUS Whip VHF ANTENNA
Fr :	156 ~ 165 Mhz
Gain:	0dB
VSWR	2.0:1
Impedence:	50 ohm
Connector:	SMA(M)
Ground	With FB6 Base mounting
Dimension:	35.2mm
Weight:	46g
Cable :	SMA(SBJ)-10M-TNC(M) or other

* This specification is subject to change without prior notice

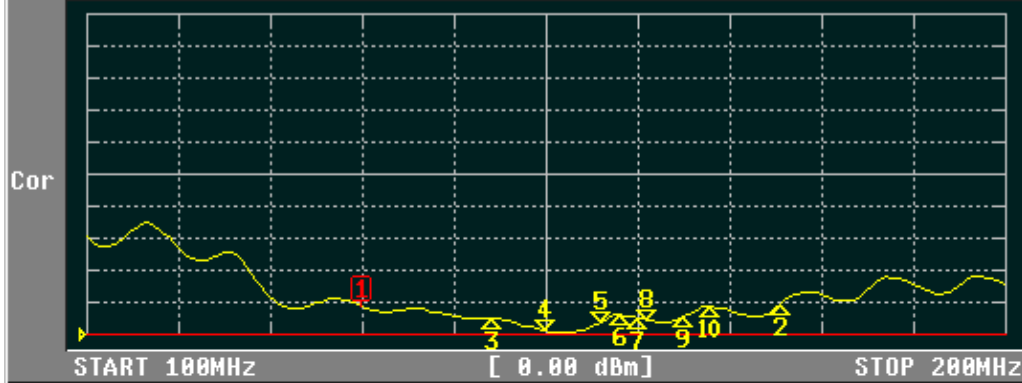
Data Updated: OCT.21, 2011

FB6 SUS L- mounting :





CH1 RFL SWR MKR 1: 130.083 333 3MHz
 REF 1.000 1.000 / 1.872



CH1 MARKER LIST

1:	130.083MHz	1.871
2:	175.500MHz	1.917
3:	144.000MHz	1.498
4:	150.000MHz	1.112
5:	156.000MHz	1.384
6:	158.000MHz	1.601
7:	160.000MHz	1.517
8:	161.000MHz	1.447
9:	165.000MHz	1.551
10:	167.916MHz	1.867

FORMAT

SWR

REAL

IMAG

PHASE
-∞, +∞

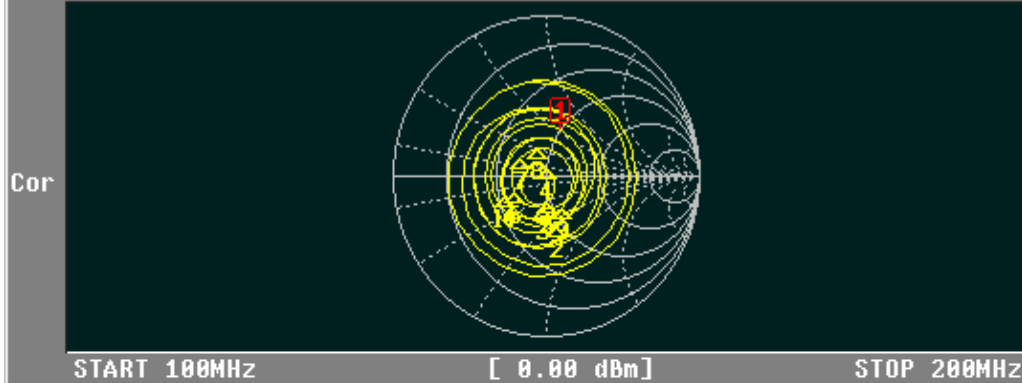
LOG MAG &
PHASE

LOG MAG &
DELAY

LIN MAG &
PHASE

More 2/2

CH1 RFL SMITH(R+jX) MKR 1: 130.083 333 3MHz
 FS 1.000 50.244 Ω 31.688 Ω



CH1 MARKER LIST

1:	130.083MHz	50.244 Ω	31.688 Ω	38.760nH
2:	175.500MHz	46.675 Ω	-31.871 Ω	28.454pF
3:	144.000MHz	43.787 Ω	-18.010 Ω	61.366pF
4:	150.000MHz	49.867 Ω	5.433 Ω	5.765nH
5:	156.000MHz	47.412 Ω	-15.645 Ω	65.208pF
6:	158.000MHz	32.199 Ω	-6.898 Ω	146.025pF
7:	160.000MHz	34.547 Ω	8.108 Ω	8.065nH
8:	161.000MHz	41.542 Ω	14.699 Ω	14.531nH
9:	165.000MHz	56.261 Ω	-22.633 Ω	42.616pF
10:	167.916MHz	27.688 Ω	-7.434 Ω	127.481pF

FORMAT

LOG MAG

PHASE

DELAY

SMITH
(R+jX)

SMITH
(G+jB)

POLAR

LIN MAG

More 1/2