

Marine Combo GPS / VHF Antenna

MODEL: GVA-150A-L

AIS system & boat manages the double frequency GPS/VHF Antenna



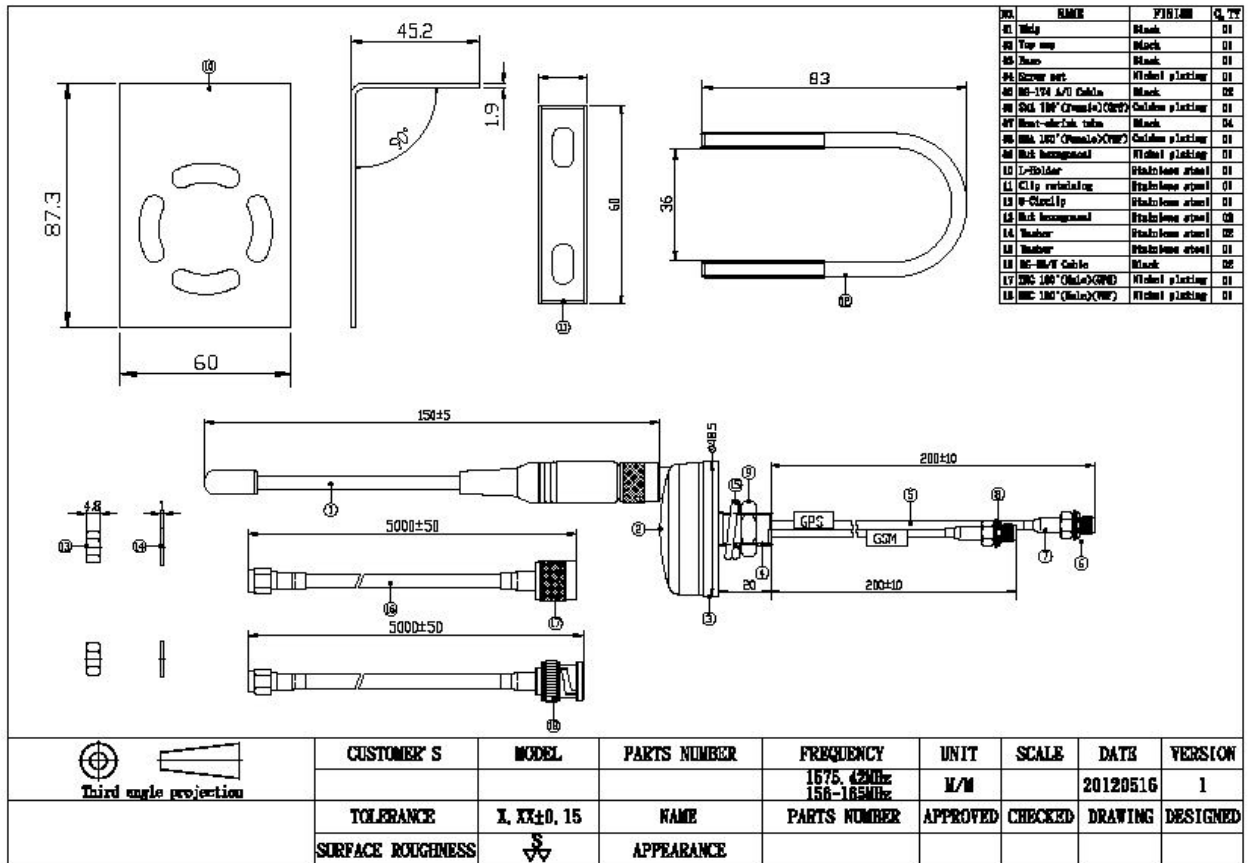
Specifications:

PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	47.2mm(Dia.) x 38mm(H)
Weight:	640 grams (with 5M cable & connector & L-mounting).
Color:	Standard in Black
Mounting:	Bulkhead mount with 0.46 inch threaded wing nut.
Cable & Connector	
RF cable:	20CM-RG174 & SMA(M)-RG58-5M-TNC(M)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector available:	SMA(F)
Optional:	Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)
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:	10MHz min.
Noise Figure:	1.5 min.

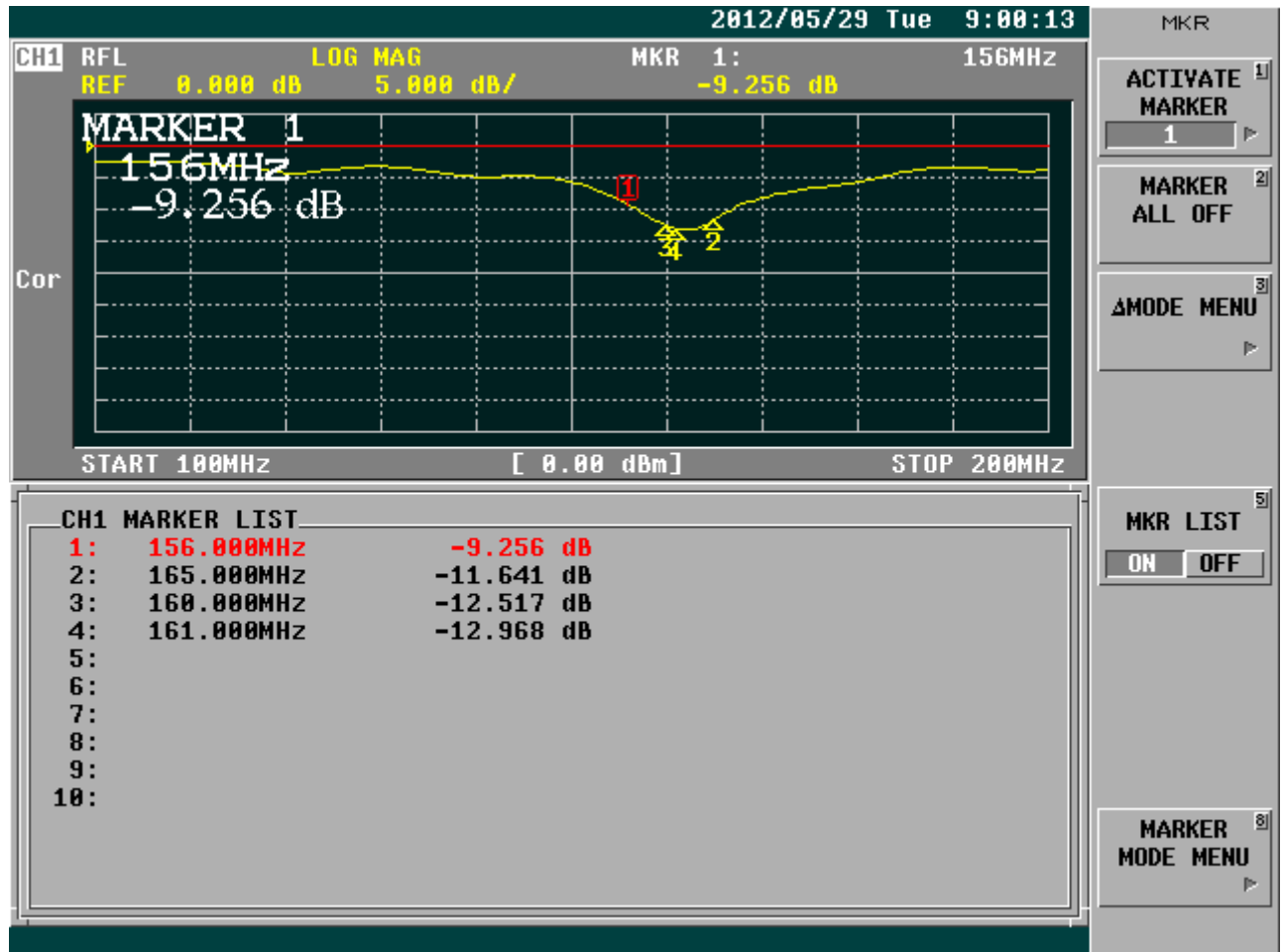
Outer Band Attenuation:	3 dB max.
Supply Voltages:	2.5~5.5V DC
Current Consumption:	2.5V : 6.6mA Typ. 3V: 8.6mA Typ. 4V: 12.6mA Typ. 5V: 16.6mA Typ.
Output Impedance:	50W ohm
Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency:	1575.42 Mhz.
Gain:	At 90° 30 ± 4.5dBi-(cable loss) 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
Environmental	
Operating Temperature:	-40°C~ +85°C.
Storage Temperature:	-50°C~ +90°C.
Relative Humidity:	95% non-condensing.
VHF Annt	
Frequency	156-165Mhz (AIS System)
VSWR	<2.0 Max
Impedence	50Ω
Cable type	RG174 / RG58
Cable length	RG174-20CM & SMA(M)-RG58-5M-BNC(M)
Connector	SMA(F)
Power	5~10W

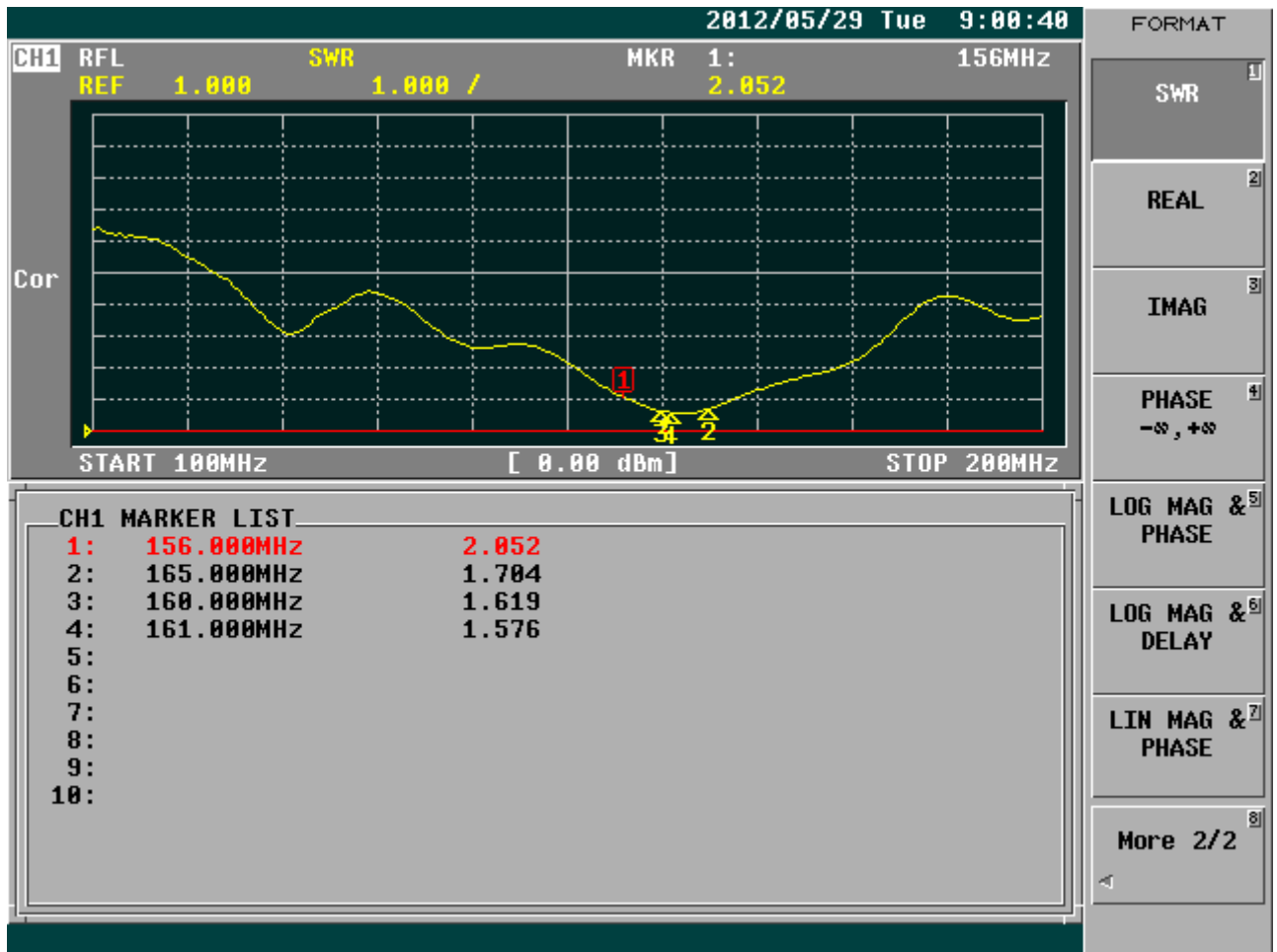
* This specification is subject to change without prior notice

PS. Car Shell drill the hole OD12mm, When test must lock on the sheet iron

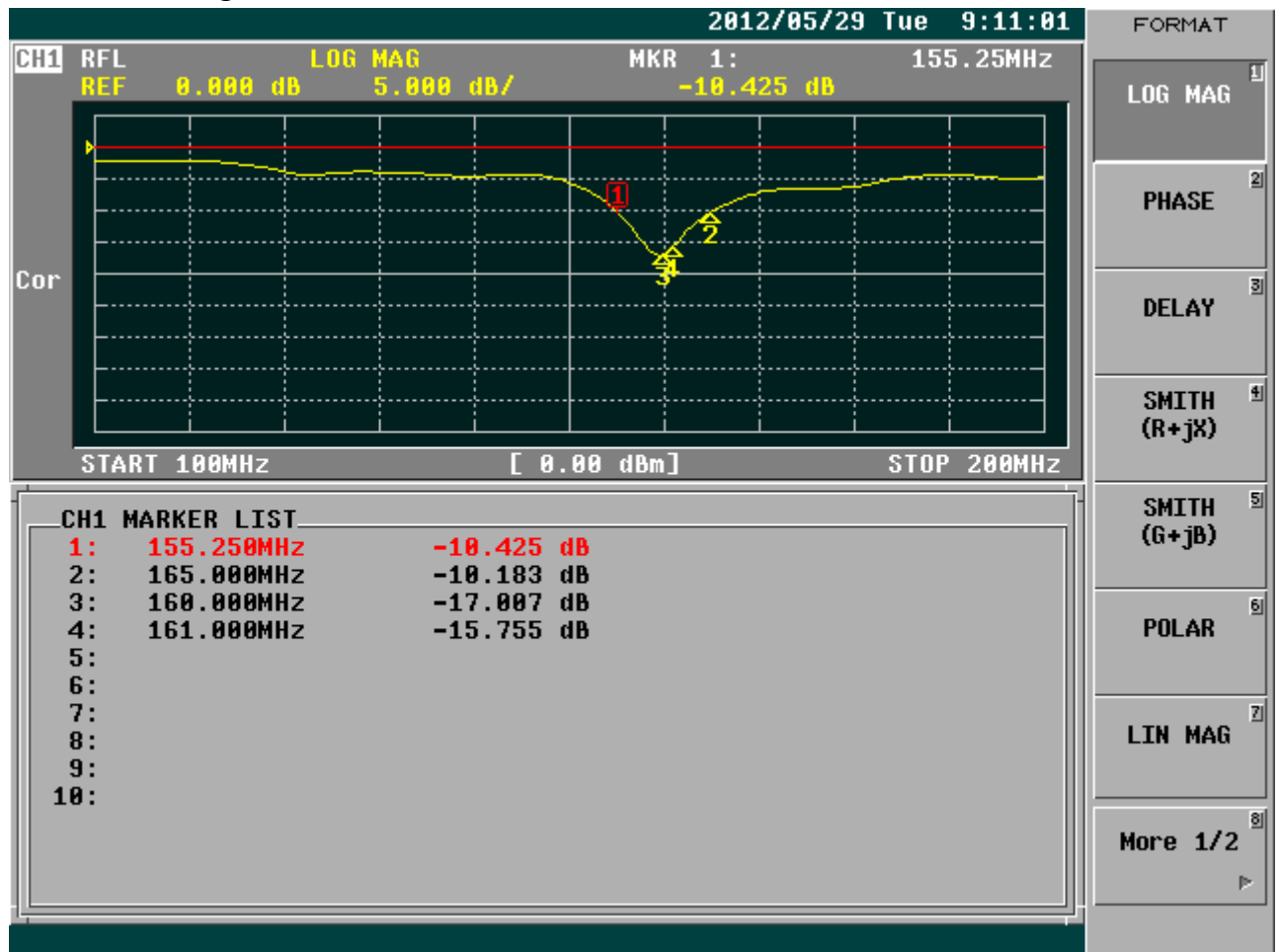


No L-mounting test :



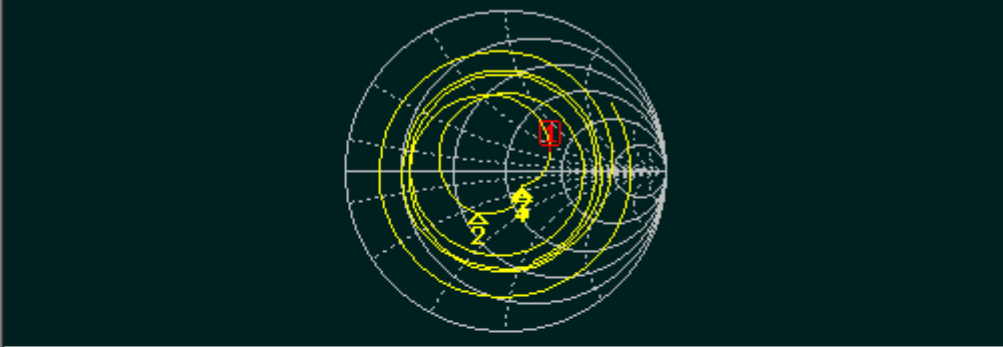


Have L-mounting test :



CH1 RFL SMITH(R+jX) MKR 1: 155.25MHz
FS 1.000 83.855 Ω 22.568 Ω

Cor



START 100MHz [0.00 dBm] STOP 200MHz

CH1 MARKER LIST

1:	155.250MHz	83.855 Ω	22.568 Ω	23.135nH
2:	165.000MHz	31.579 Ω	-17.623 Ω	54.732pF
3:	160.000MHz	59.602 Ω	-11.392 Ω	87.316pF
4:	161.000MHz	58.248 Ω	-14.968 Ω	66.039pF
5:				
6:				
7:				
8:				
9:				
10:				

LOG MAG

PHASE

DELAY

SMITH (R+jX)

SMITH (G+jB)

POLAR

LIN MAG

More 1/2