Drills a hole fixed GPS /VHF Antenna

MODEL: GVA-300

(***Passive Antenna***)

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

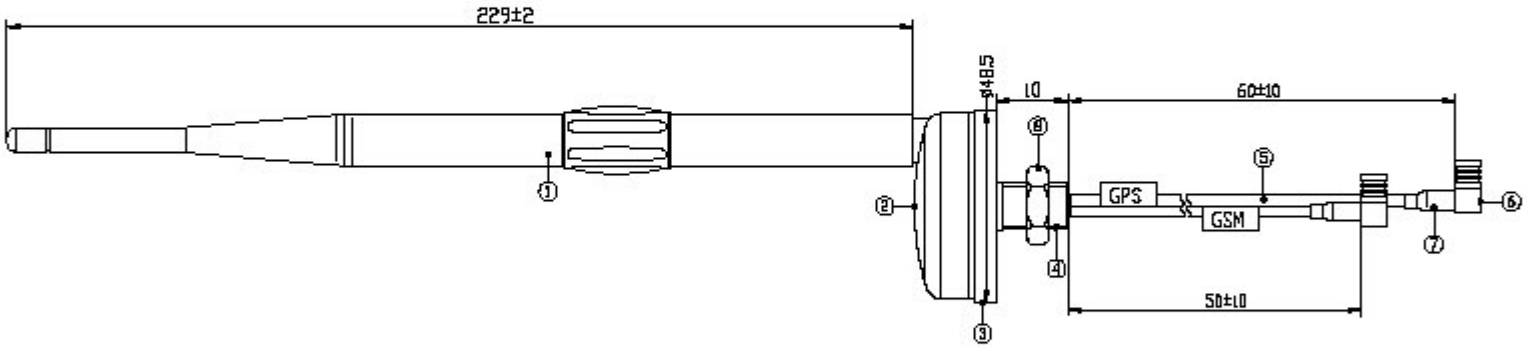
Specifications:

PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	47.2mm(Dia.) x 38mm(H)
Weight:	240grams
Color:	Standard in Black
Mounting:	Bulkhead mount with 0.46 inch threaded wing nut.
Cable & Connector	
RF cable:	60mm RG174/U
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector available:	SMB90(SP)
Antenna Element	
Center Frequency:	1575.42 MHz +/-1.023 MHz
Polarization:	R.H.C.P. (Right Handed Circular Polarization).
Absolute Gain @ Zenith:	+2 dBi typical.
Gain @ 10° Elevation:	-1 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5 max
Output Impedance:	50 ohm
Environmental	
Operating Temperature:	-40°C~ +85°C.
Storage Temperature:	-45°C~ +90°C.
Relative Humidity:	95% non-condensing.

VHF Annt	
Frequency	156-165Mhz (AIS System)
VSWR	<2.0 Max
Impedence	50Ω
Cable type	RG174
Cable length	50mm
Connector	SMB90(SP)
Power	5~10W

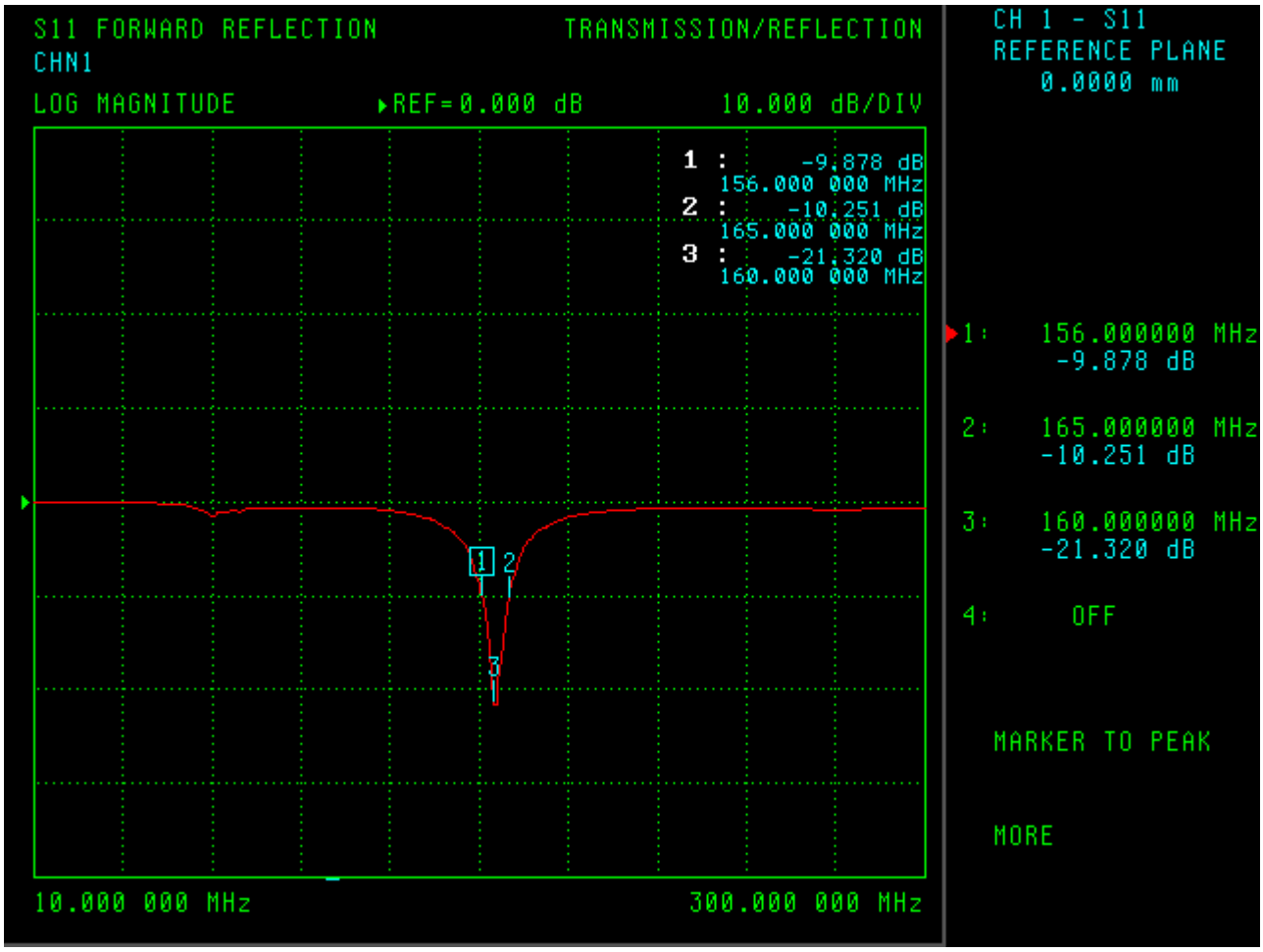
＊ This specification is subject to change without prior notice

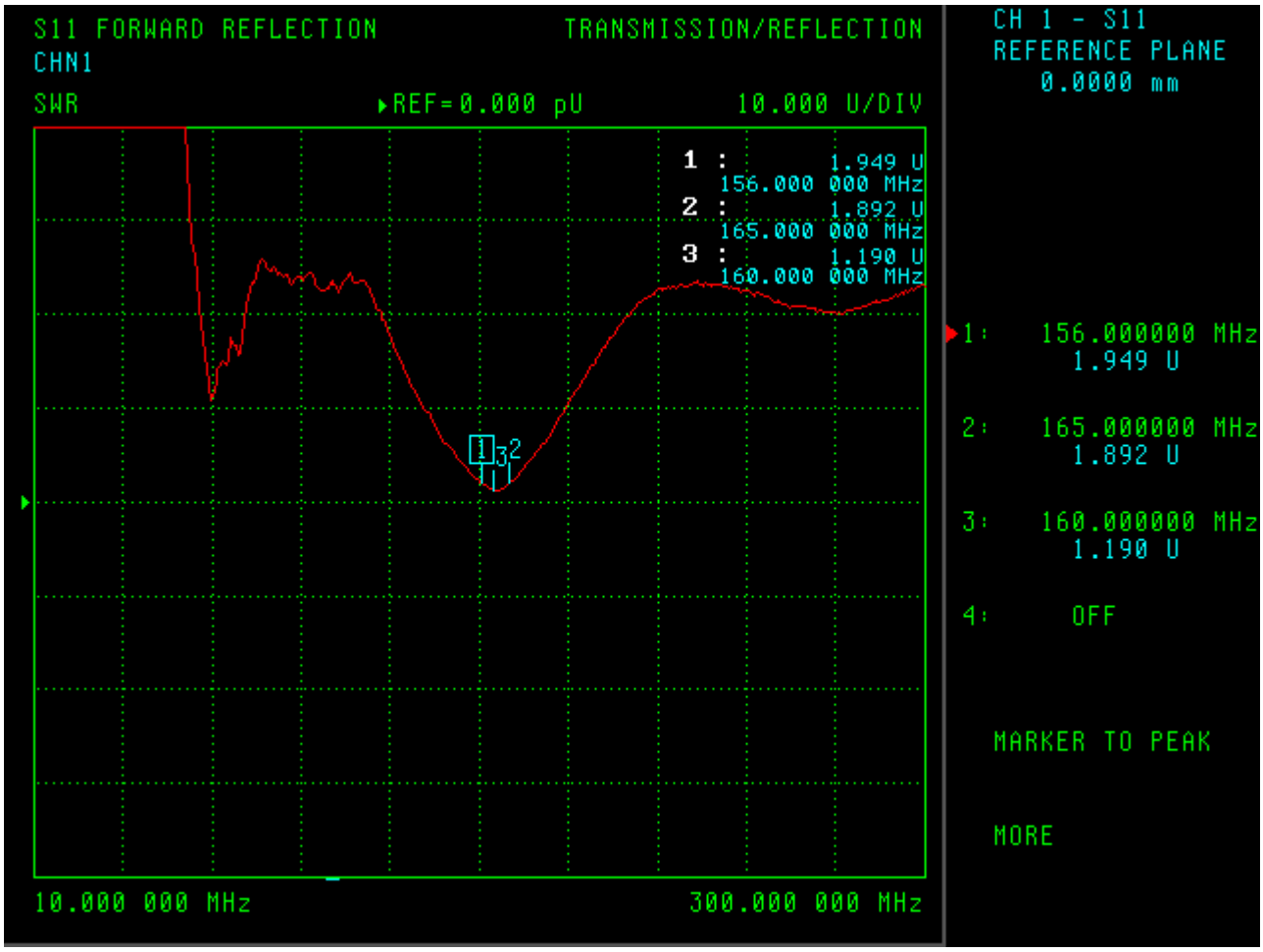
NO.	NAME	FINISH	Q, TY
01	Whip	Black	01
02	Top cap	Black	01
03	Base	Black	01
04	Screw set	Nickel plating	01
05	RG-174 A/U Cable	Black	02
06	SMB 90°(Male reverse)	Golden plating	02
07	Heat-shrink tube	Black	02
08	Nut hexagonal	Nickel plating	01

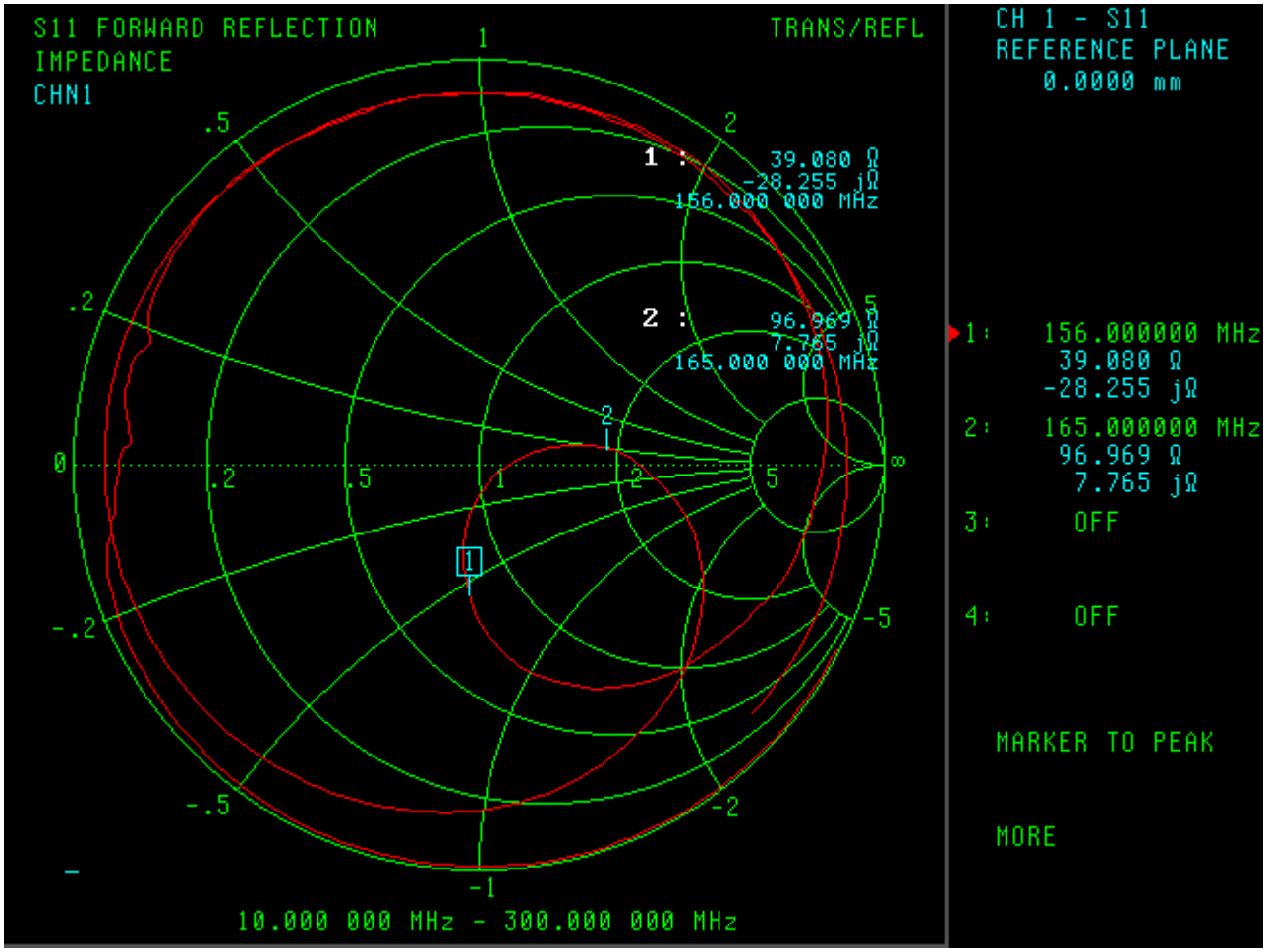


Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				1575.42MHz 156-165MHz	M/M		20091112	2
	TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	▽	APPEARANCE					

156~165Mhz


S11 FORWARD REFLECTION
TRANSMISSION/REFLECTION
CHN1
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV
1 : -9.878 dB
156.000 000 MHz
2 : -10.251 dB
165.000 000 MHz
3 : -21.320 dB
160.000 000 MHz
10.000 000 MHz
300.000 000 MHz
CH 1 - S11
REFERENCE PLANE
0.0000 mm
1: 156.000000 MHz
-9.878 dB
2: 165.000000 MHz
-10.251 dB
3: 160.000000 MHz
-21.320 dB
4: OFF
MARKER TO PEAK
MORE


S11 FORWARD REFLECTION
TRANSMISSION/REFLECTION
CHN1
SWR
REF=0.000 pU
10.000 U/DIV
1 : 1.949 U
156.000 000 MHz
2 : 1.892 U
165.000 000 MHz
3 : 1.190 U
160.000 000 MHz
10.000 000 MHz
300.000 000 MHz
CH 1 - S11
REFERENCE PLANE
0.0000 mm
1: 156.000000 MHz
1.949 U
2: 165.000000 MHz
1.892 U
3: 160.000000 MHz
1.190 U
4: OFF
MARKER TO PEAK
MORE


S11 FORWARD REFLECTION
IMPEDANCE
CHN1
TRANS/REFL
1 : 39.080 Ω
-28.255 jΩ
156.000 000 MHz
2 : 96.969 Ω
7.765 jΩ
165.000 000 MHz
10.000 000 MHz - 300.000 000 MHz
CH 1 - S11
REFERENCE PLANE
0.0000 mm
1: 156.000000 MHz
39.080 Ω
-28.255 jΩ
2: 165.000000 MHz
96.969 Ω
7.765 jΩ
3: OFF
4: OFF
MARKER TO PEAK
MORE