

Drills a hole fixed GPS /UHF Antenna

MODEL: GUA-450

(Low Input Voltage)

Radio system & boat manages the double frequency GPS/UHF Antenna



Specifications:

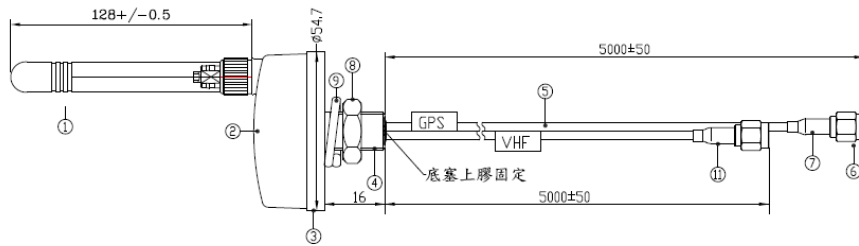
PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	54.7mm(Dia.) x 27.5mm(H)
Weight:	240grams (with 5M cable & connector).
Color:	Standard in Black
Mounting:	Bulkhead mount with 0.47 inch threaded wing nut.
Cable & Connector	
RF cable:	5 meter RG174/U (standard) other length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector available:	SMA/SMB/MCX/MMCX/GT5/FME---
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

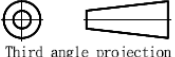

Bandwidth:	10MHz min.
Noise Figure:	1.5 min.
Outer Band Attenuation:	3 dB max.
Supply Voltages:	2.5~5.5V DC
Current Consumption:	2.5V : 6.6mA Typ. 3V: 8.6mA Typ. 4V: 12.6mA Typ. 5V: 16.6mA Typ.
Output Impedance:	50W ohm
Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency:	1575.42 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~ +80°C.
Storage Temperature:	-40°C~ +80°C.
Relative Humidity:	95% non-condensing.
UHF Annt	
Frequency	420-470Mhz
VSWR	2.0:1
Impedence	50Ω
Cable type	RG174
Cable length	5M
Connector	SMA or BNC or Others
Power	5~10W

* This specification is subject to change without prior notice

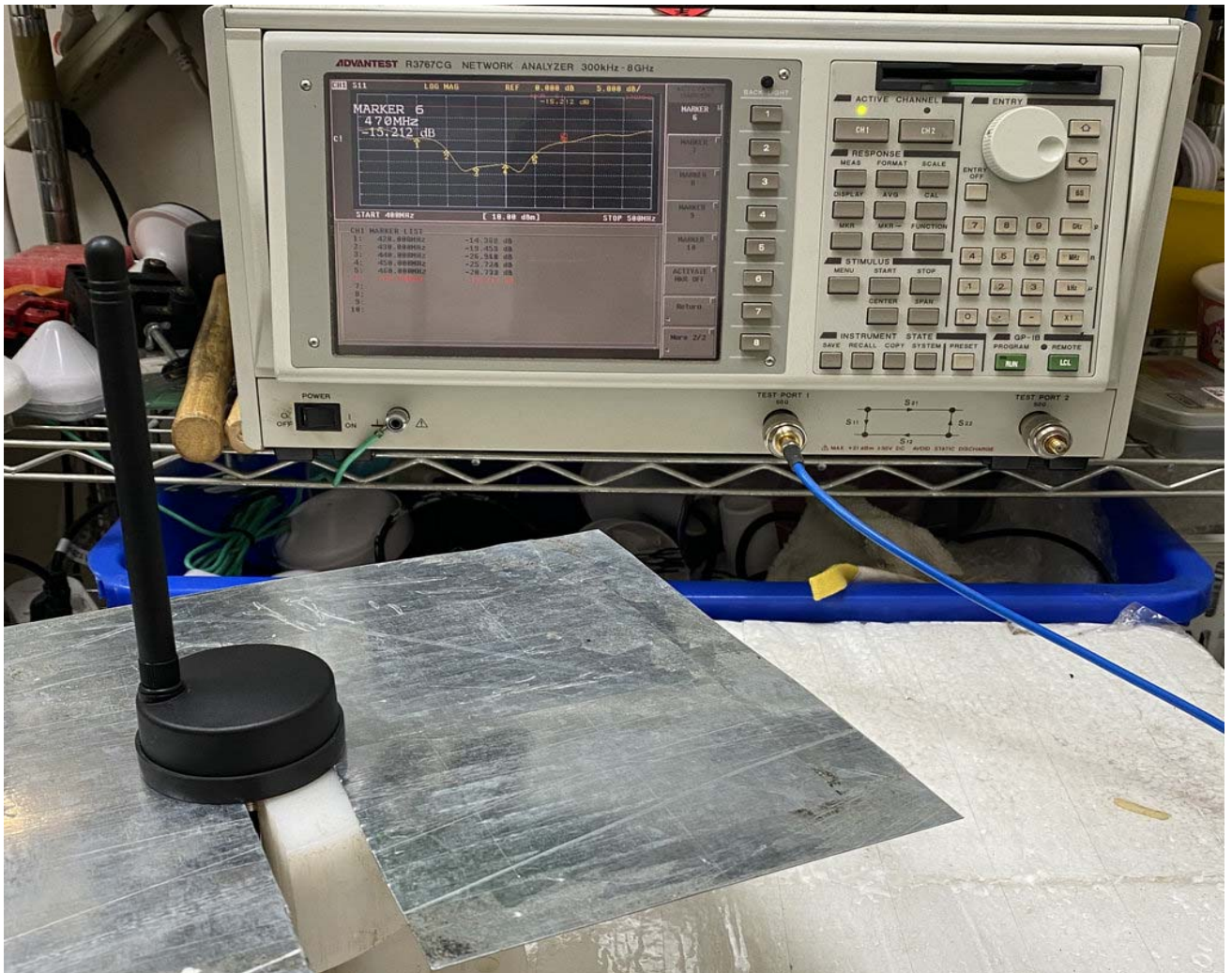
PS. Car Shell drill the hole OD12mm, When test must lock on the sheet iron

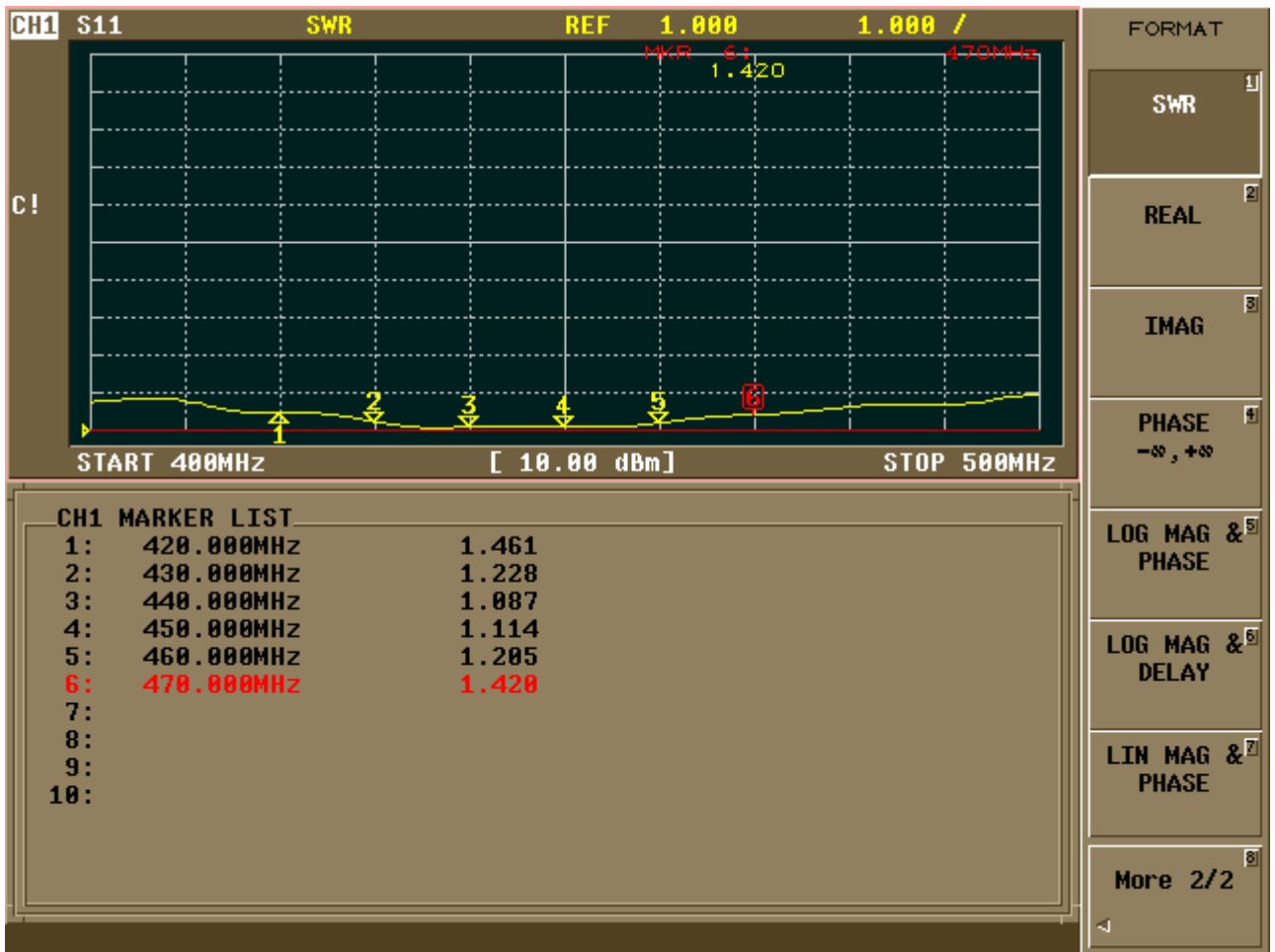
NO.	NAME	FINISH	Q, TY
01	Whip	Black	01
02	Top cap	Black	01
03	Base	Black	01
04	Screw set	Nickel plating	01
05	RG-174 A/U Cable	Black	02
06	SMA 180° (Male)	Colden plating	02
07	Heat-shrink tube	Yellow	01
08	Nut hexagonal	Stainless steel	01
09	Washer	Stainless steel	01
10	O-Ring	Black	01
11	Heat-shrink tube	Blue	01



 Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
			GUA-450		1575.42 & 420~470MHz	M/M		20200206
	TOLERANCE	X.XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS		APPEARANCE					

ON 320x240mm GND test :







CH1 MARKER LIST

1:	420.000MHz	70.956 Ω	9.109 Ω	3.452nH
2:	430.000MHz	44.602 Ω	-8.214 Ω	45.058pF
3:	440.000MHz	52.568 Ω	3.435 Ω	1.242nH
4:	450.000MHz	55.559 Ω	887.507mΩ	313.891pH
5:	460.000MHz	50.247 Ω	-9.637 Ω	35.899pF
6:	470.000MHz	44.866 Ω	16.053 Ω	5.436nH
7:				
8:				
9:				
10:				

- FORMAT
- LOG MAG
 - PHASE
 - DELAY
 - SMITH (R+jX)
 - SMITH (G+jB)
 - POLAR
 - LIN MAG
 - More 1/2