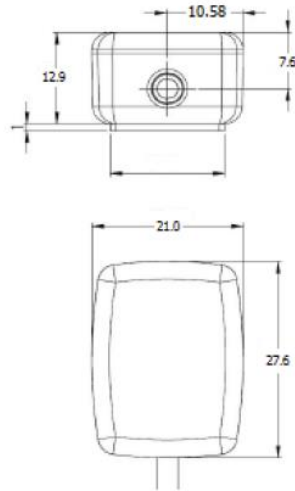


# **MINI MAG GPS Active Antenna Specification**

**(Model NO.:RY-GPS-20)**





### (1) Dielectric Antenna

Center Frequency	1575.42MHz $\pm$ 3 MHz
V.S.W.R	1.5:1
Band Width	$\pm$ 5 MHz
Impedence	50 ohm
Peak Gain	>1dBic Based on 7 $\times$ 7cm ground plane
Gain Coverage	>-4dBic at $-90^\circ$ <0<+90 $^\circ$ (over 75% Volume)
Polarization	RHCP

### (2) LNA/Filter

LNA Gain (Without cable)	26dB Typical
Noise Figure	1.5dB
Filter Out Band Attenuation (f0=1575.42 MHz)	
	7dB Min f0 $\pm$ 20MHZ ;
	20dB Min f0 $\pm$ 50MHZ;
	30dB Min f0 $\pm$ 100MHZ
V.S.W.R	<2.0
DC Voltage	3.0V to 5.0V
DC Current	11mA Max

### (3) Mechanical

Weight	<100gram
Size	27*20*13 mm(without cable)
Cable	RG174 1m,3m,5m,etc
Connector	SMA Male,optional
Mounting	Adhesive/Magnetic

Housing

Black

### (4) Environmental

Working Temp

-40°C~+85°C

Storage Temp.

-45°C~+100°C

Vibration

Sine sweep 1g(0-p)10~50~10Hz each axis

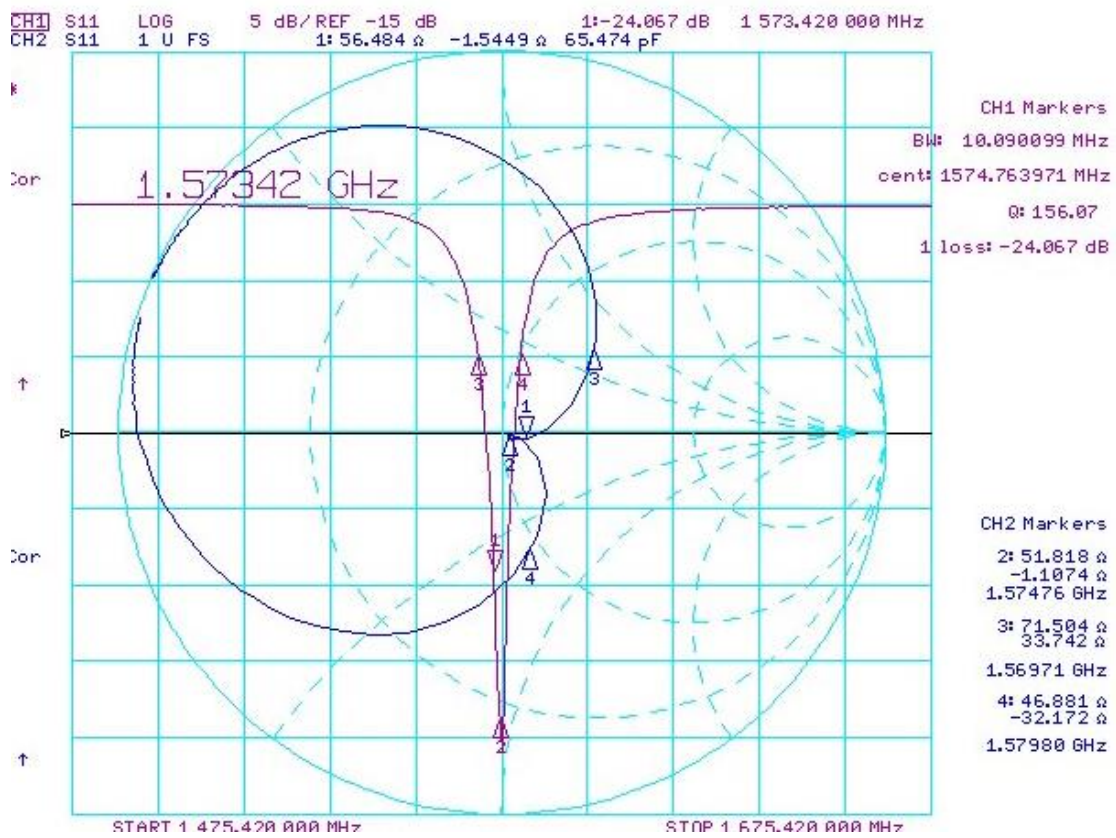
Humidity

Humidity95%~100%RH

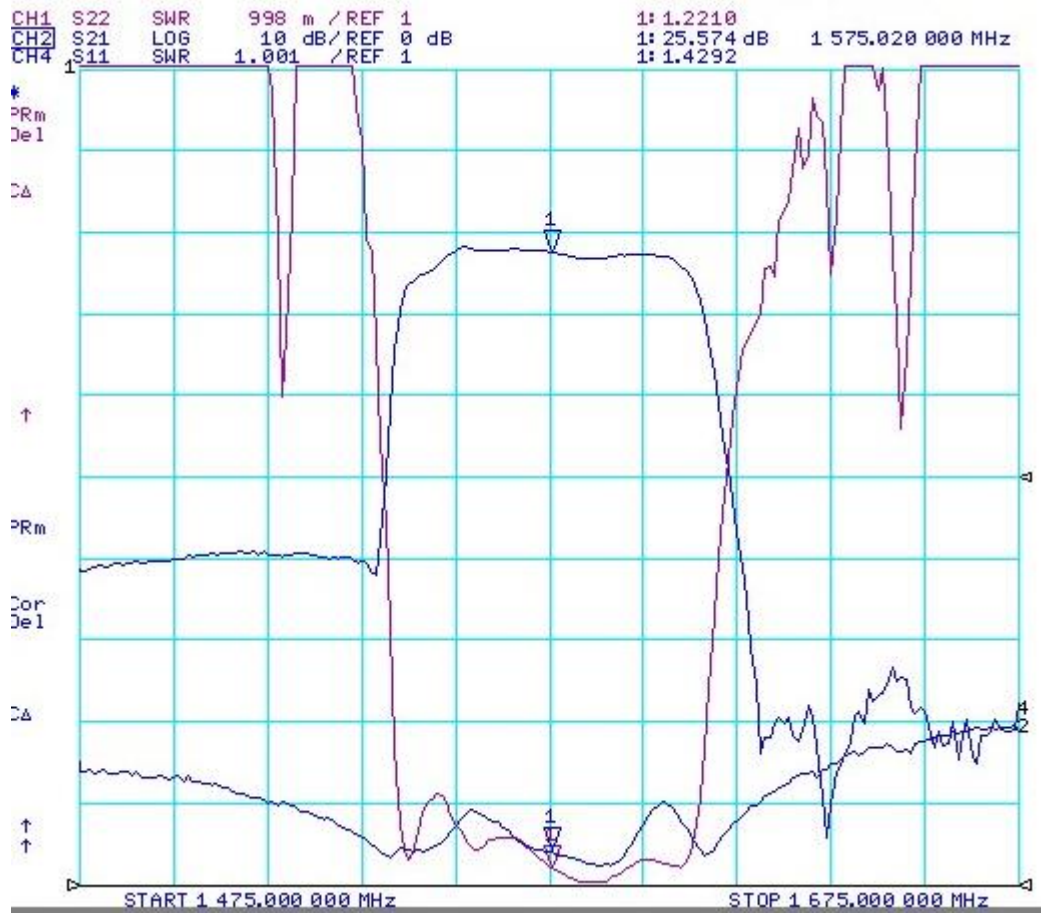
Weatherproof

100% Waterproof

### (5) Patch Test curve



### (6) LNA Test curve



Test condition: DC 3.0V