

ALLISCOM

GPS(L1/L2)/GLONASS(L1)/Galileo(E1)/COMPASS(B1)

GNSS Antenna

Data Sheet



Model No. WG40B

Feature **Waterproof Housing IP67 Standard**
L1 40dB, L2 46dB
High performance

Benefit **For GPS/GLONASS/Galileo/Compass**
Withstand harsh salt water environment
Durability

Description **Allis Communications WG40B Marine Antenna is a durable antenna for outdoor harsh environment. The W Series Antenna will withstand harsh salt water environment and sunlight. The cone shaped body will also prevent bird interference.**

1. Electrical Specifications

1.1 Patch Antenna:

Frequency	GPS (L1:1575.42MHz/L2:1227.6MHz)	Galileo (E1:1575.42MHz)	Compass (B1:1559~1592MHz)	GLONASS (L1:1602~1615MHz)
VSWR	2.0 Max.			
Impedance	50Ω			
Peak Gain	0dBic at 0° (4.2cm x 3.75cm ground plane)			
Polarization	RHCP			

1.2 Amplifier Module:

Model No.	Amplifier Gain without cable		Noise Figure	Output VSWR	DC Voltage	DC Current
WG40B	GPS	L1: 40dB Typ.	2.0dB Max.	3.0 Max.	DC 3 to 12V	20mA Max.
		L2: 46dB Typ.	2.0dB Max.	2.0 Max.		
	Galileo E1: 40dB Typ.		2.0dB Max.	3.0 Max.		
	Compass B1: 40dB Typ.		2.0dB Max.	3.0 Max.		
	GLONASS L1: 40dB Typ.		2.0dB Max.	3.0 Max..		

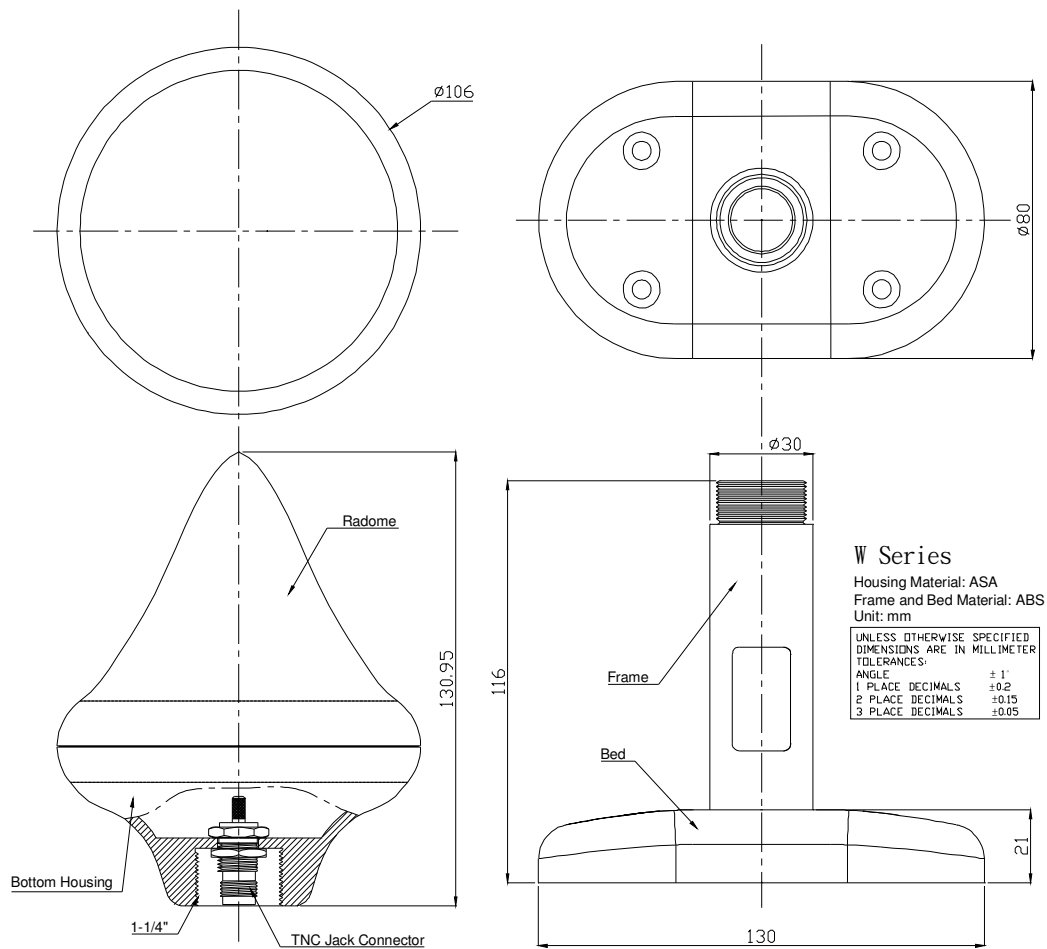
* Specifications subject to change without notice.

2. Mechanical Specification

2.1 Mechanical

Item	Specification
Weight (Without Cable)	280 grams max.
Size	106mm Dia. x 235 mm
Connector	TNC Jack (Female)
Housing Material	ASA
Mounting	1" X 14 Thread male
Housing Color	White
Waterproof	IP67

2.2 Dimension



3. Appendix: Gain Patterns

Amplifier Gain(S21)

GPS L2

