



Product Name: External One Port GNSS Antenna

Part Number: EG-2B-AS-B01

Features:

- Support GPS/GLONASS/BEIDOU L1 Bands
- 27dB LNA Gain, Less 1dB Noise Figure
- Solid Enclosure, IP67 Waterproof Resistant
- Customizable Cables and Connectors
- RoHS & REACH Compliant

Applications:

- GNSS Navigation System Application
- Security Surveillance

External One Port GNSS Antenna

MODEL: EG-2B-AS-B01

Rev.B

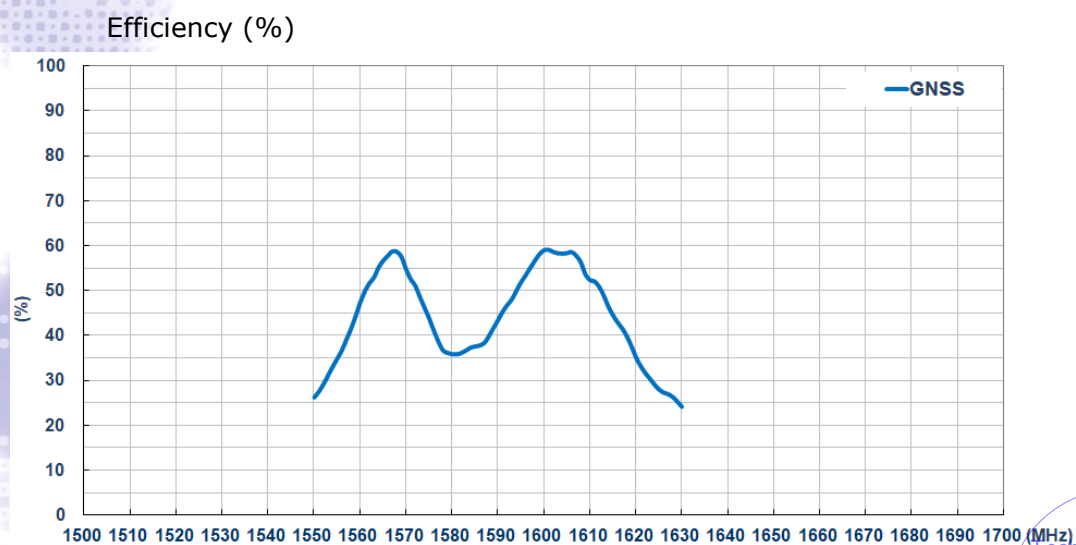
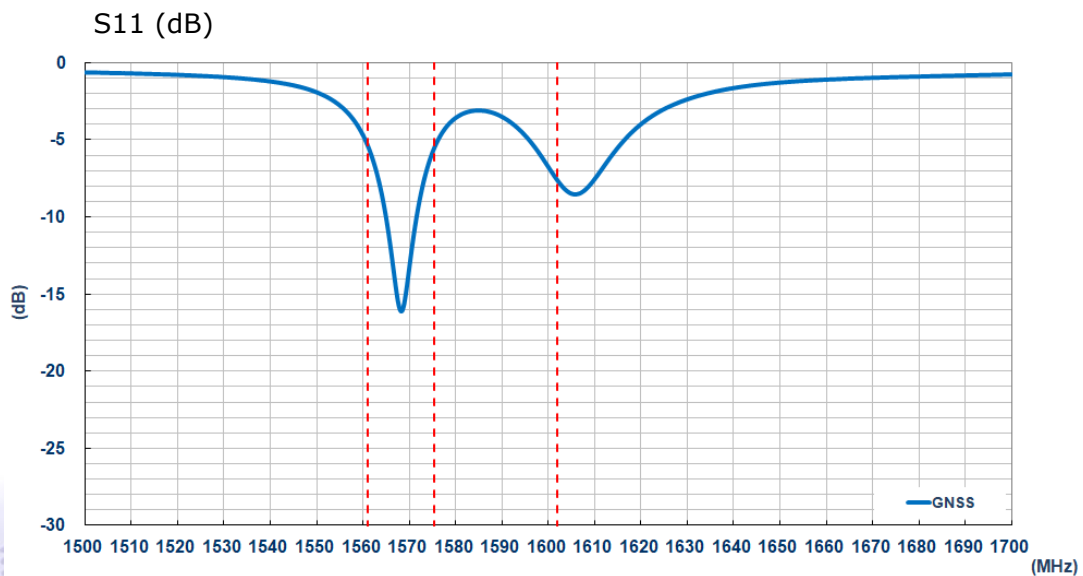
I. Specifications:

Items	Specifications		
Application Bands	BeiDou	GPS	GLONASS
Frequencies (MHz)	1561	1575.42	1602
Efficiency (%)	49.89	42.76	58.61
Average Gain (dBi)	-3.02	-3.69	-2.32
Peak Gain (dBi)	1.21	1.21	1.44
VSWR	< 3		
Return loss (dB)	< -6		
Impedance (Ω)	50		
Polarization	R.H.C.P. (Right Handed Circular Polarization)		
Active Antenna Performance			
Application bands	BeiDou	GPS	GLONASS
Frequencies (MHz)	1561 ± 2.046	1575.42 ± 1.023	1602 ± 5
Gain (dB)	27	27	27
Noise Figure (dB)	0.98	0.98	0.92
Operation Voltage (V)	2.5 ~ 5.5		
Current Consumption	9.0mA (typical)		
Output Impedance (Ω)	50		
Out of Band Rejection			
Frequencies (MHz)	600~1300	1300~1530	1650~3000
Out of Band Rejection (dB)	55	30	30
ESD Protection	+/- 8 KV (direct discharge) and +/- 15KV (air discharge)		
Cable / Connector	3 meters, H-100 / SMA (Male)		

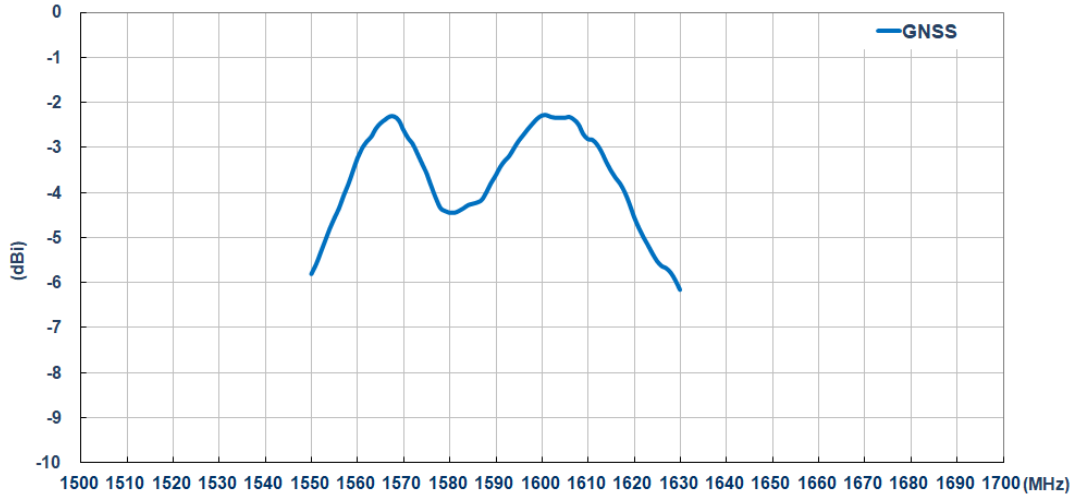
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All specifications subject to change without notice.

Mechanical	
Dimension (mm)	46.24(L) x 38.14(W) x 12.37(H)
Waterproof	IP67
Environmental Conditions	
Operation Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85
Relative Humidity	95% non-condensing

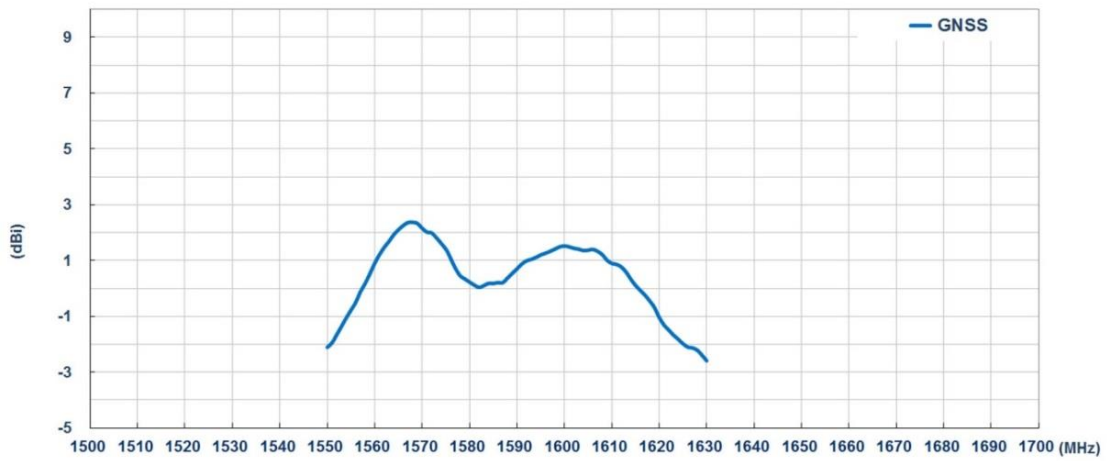
II. Analysis Antenna Performance:



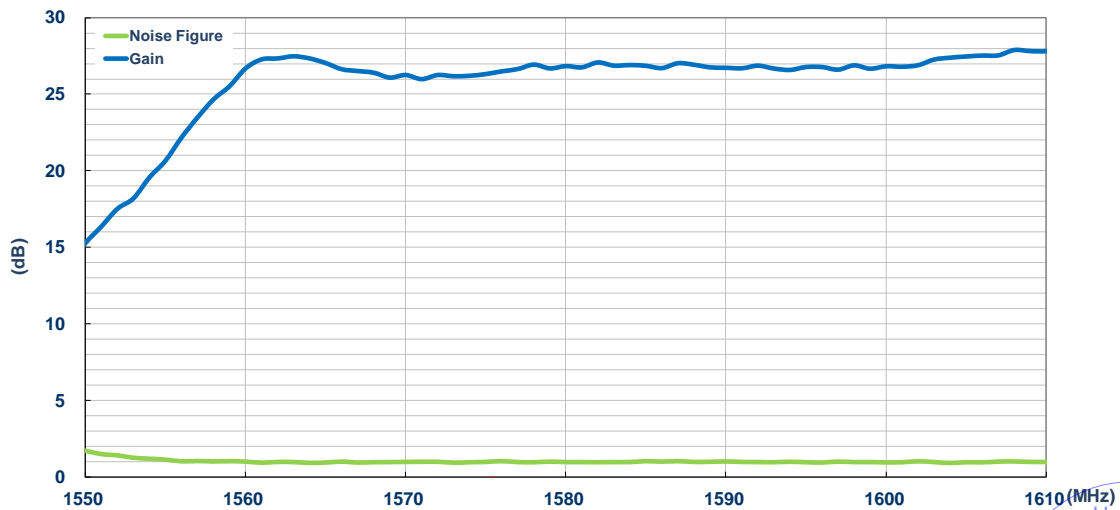
Average Gain (dBi)



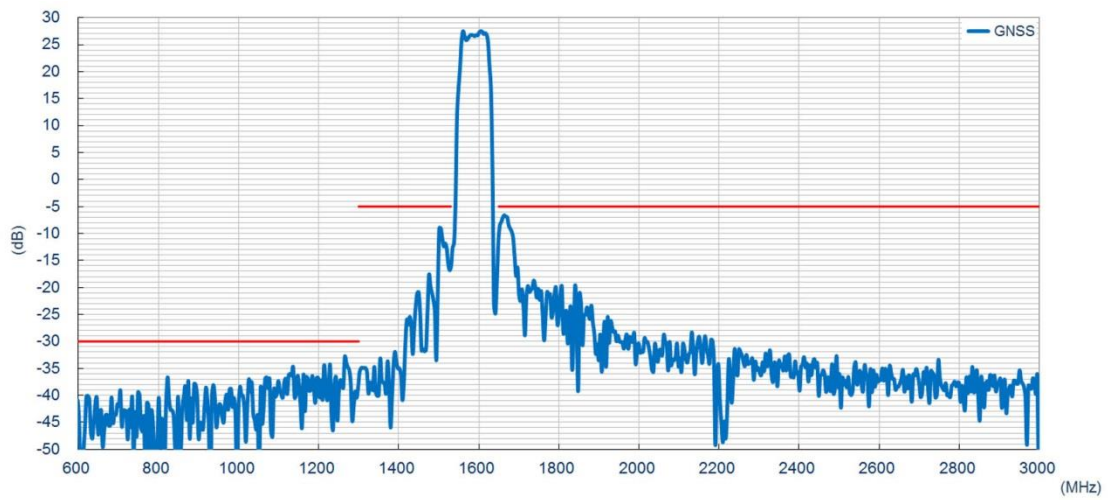
Peak Gain (dBi)



Noise Figure & Gain (dB)



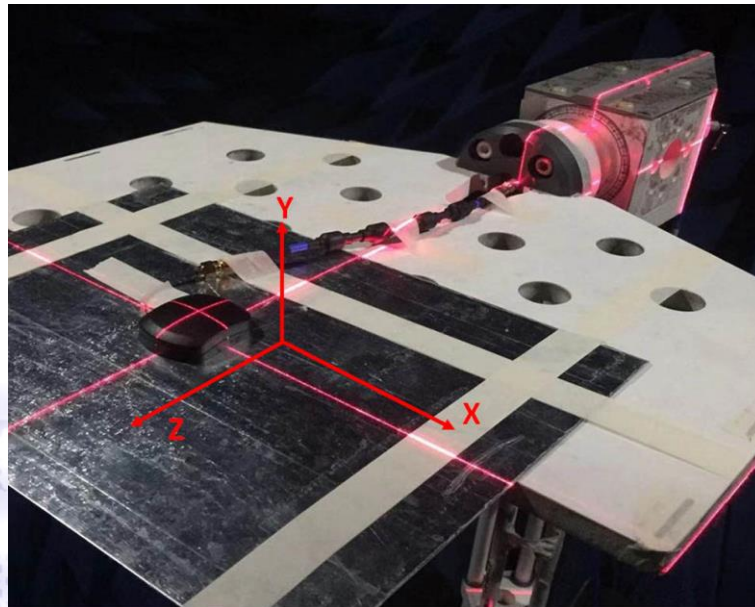
Out of Band Rejection (dB)



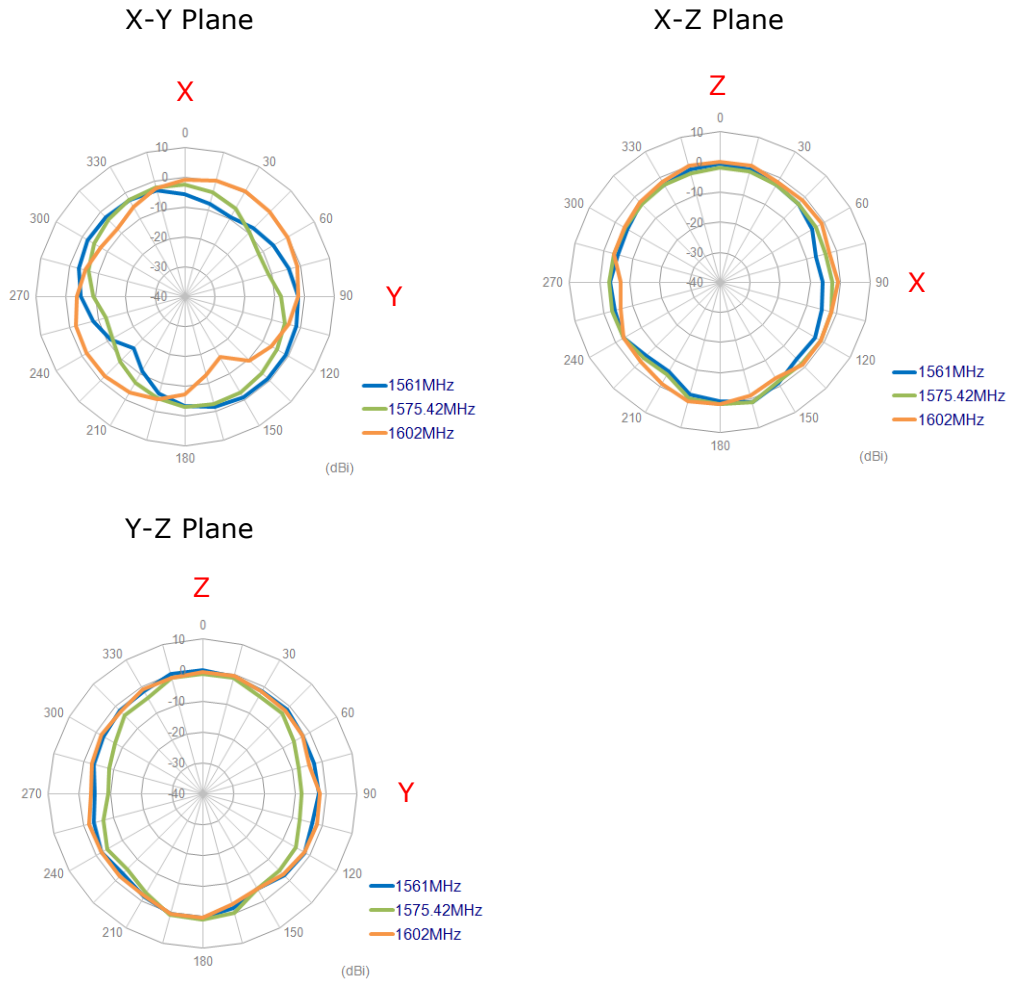
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III. Antenna Radiation Pattern Measurement:

The antenna radiation patterns are measured in 3D Anechoic Chamber. The measurement setup is as show below,

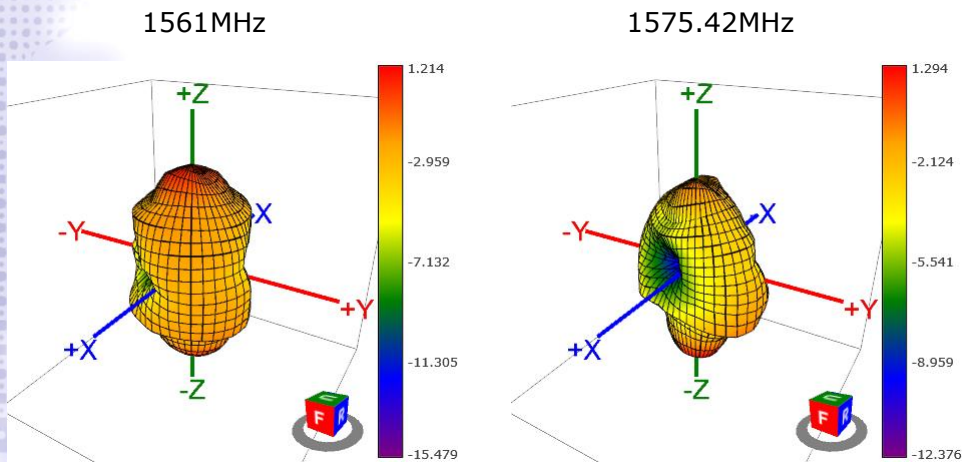


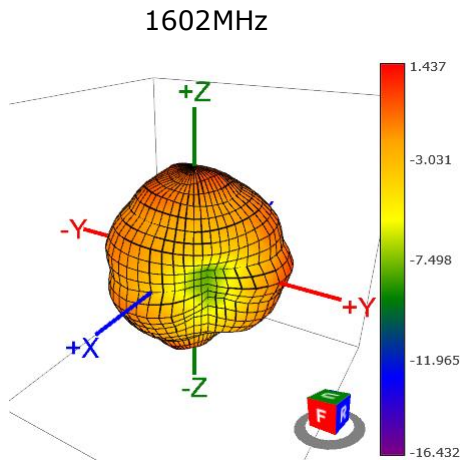
IV. 2D radiation pattern :



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V. 3D radiation pattern :





VI. Mechanical Drawing (Unit:mm):

