



**Product Name:** External One Port GNSS Antenna

**Part Number:** EG-23G-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-23G-AS-B01

Rev.A

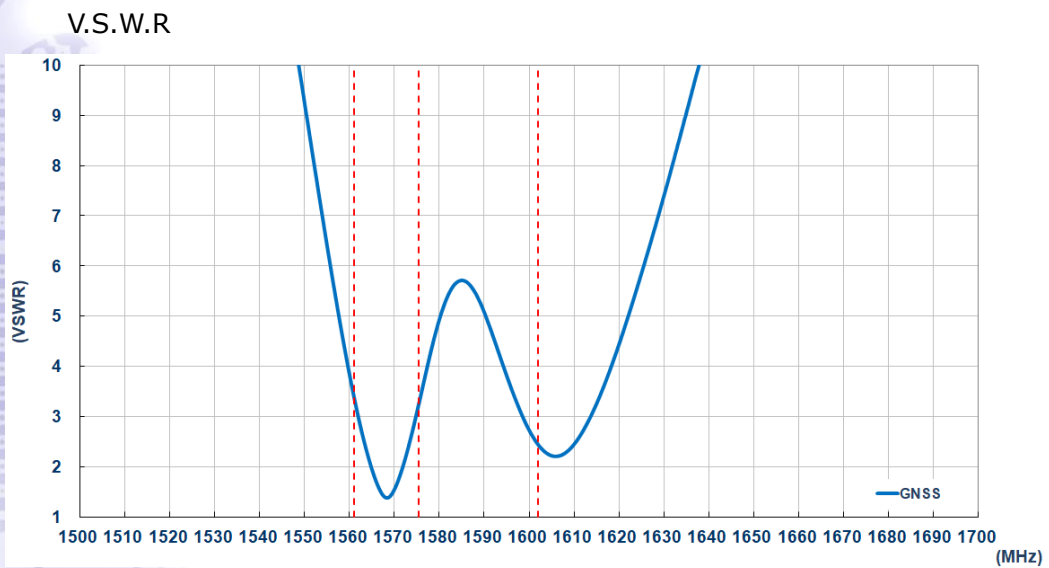
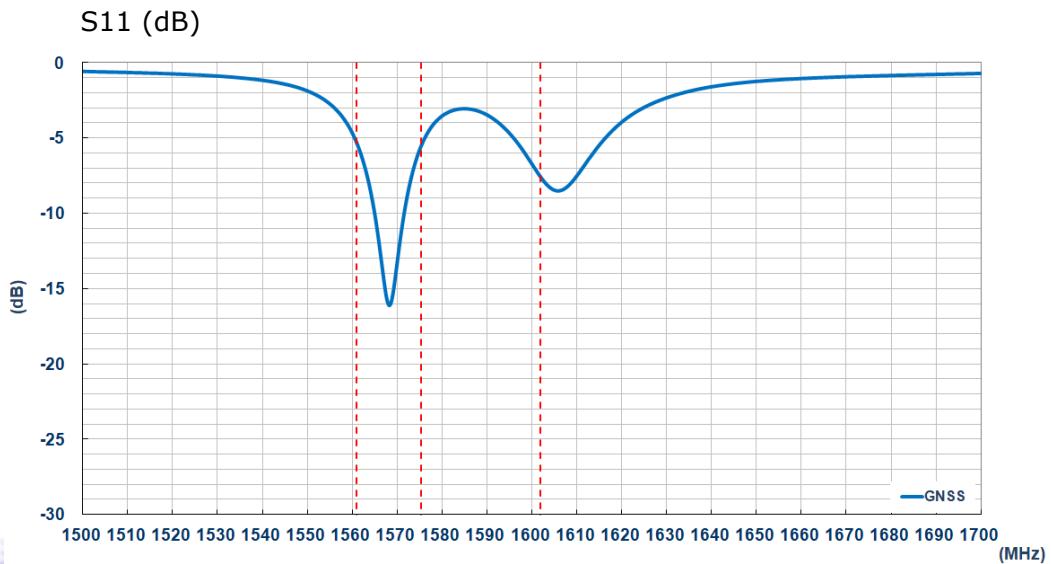
### I. Specifications:

Items	Specifications		
<b>Application Bands</b>	BeiDou	GPS	GLONASS
<b>Frequencies (MHz)</b>	1561	1575.42	1602
<b>Efficiency (%)</b>	44.46	38.11	52.24
<b>Average Gain (dBi)</b>	-3.52	-4.19	-2.82
<b>Peak Gain (dBi)</b>	0.71	0.79	0.94
<b>VSWR</b>	< 3.5		< 3
<b>Return loss (dB)</b>	< -5		< -6
<b>Impedance (Ω)</b>	50		
<b>Polarization</b>	R.H.C.P. (Right Handed Circular Polarization)		
<b>Active Antenna Performance</b>			
<b>Application bands</b>	BeiDou	GPS	GLONASS
<b>Frequencies (MHz)</b>	1561 ± 2.046	1575.42 ± 1.023	1602 ± 5
<b>Gain (dB)</b>	28	26	27.27
<b>Noise Figure (dB)</b>	1.14	1.13	1.16
<b>Operation Voltage (V)</b>	3.3 ~ 5.0		
<b>Current Consumption</b>	10.56 ± 2		
<b>Output Impedance (Ω)</b>	50		
<b>Out of Band Rejection</b>			
<b>Frequency (MHz)</b>	600~1450	1600~3000	
<b>Out of Band Rejection (dB)</b>	29	41	
<b>ESD Protection</b>	+/- 8 KV (direct discharge) and +/- 15KV (air discharge)		
<b>Cable / Connector</b>	3 meters, H-100 / SMA (Male)		

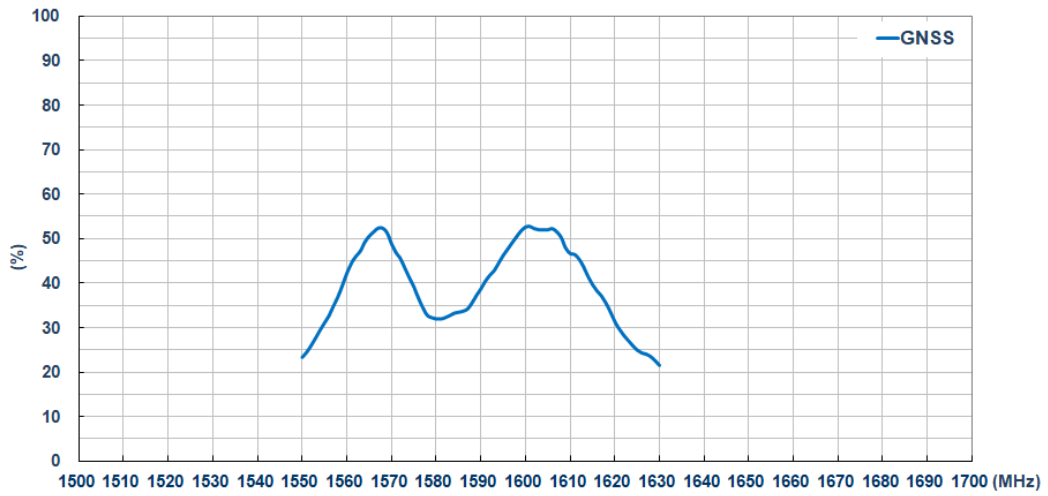
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Mechanical Specifications	
Dimension (mm)	33.95(L) x 25.20(W) x 10.60(H)
Waterproof	IP67
Environmental Conditions	
Operation Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85
Relative Humidity	95% non-condensing

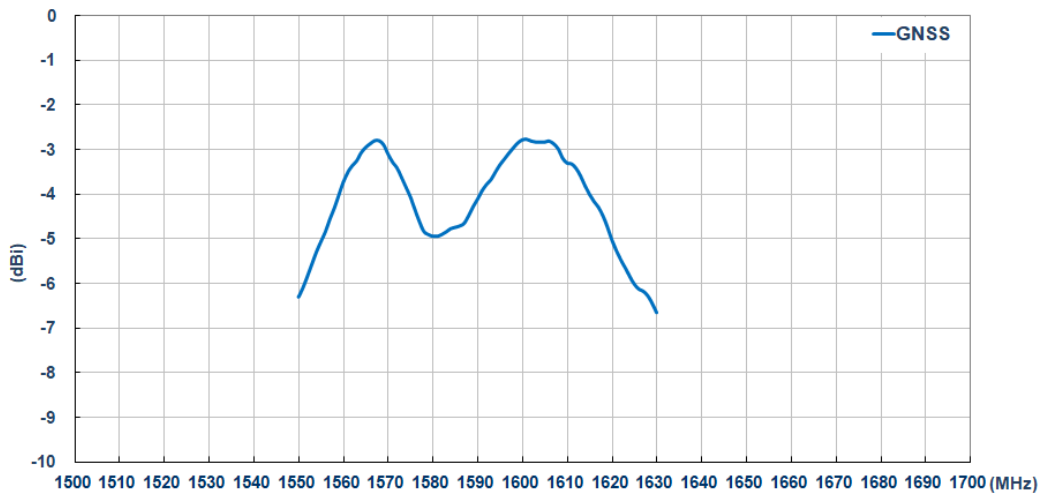
## II. Analysis Antenna Performance:



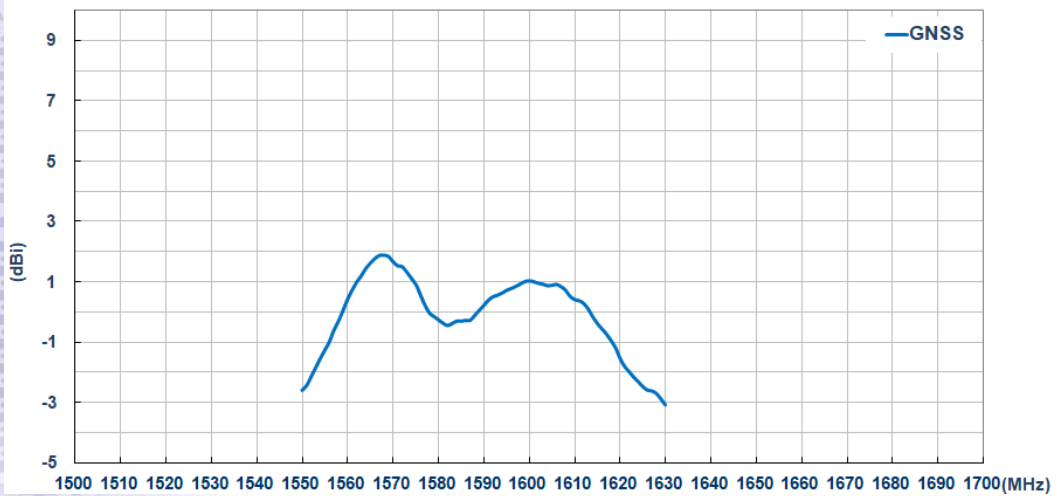
Efficiency (%)



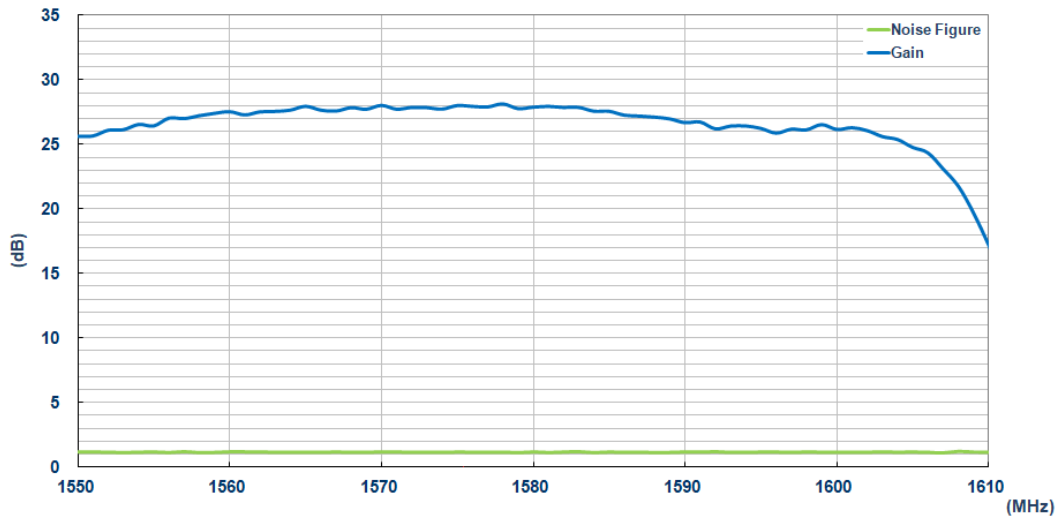
Average Gain (dBi)



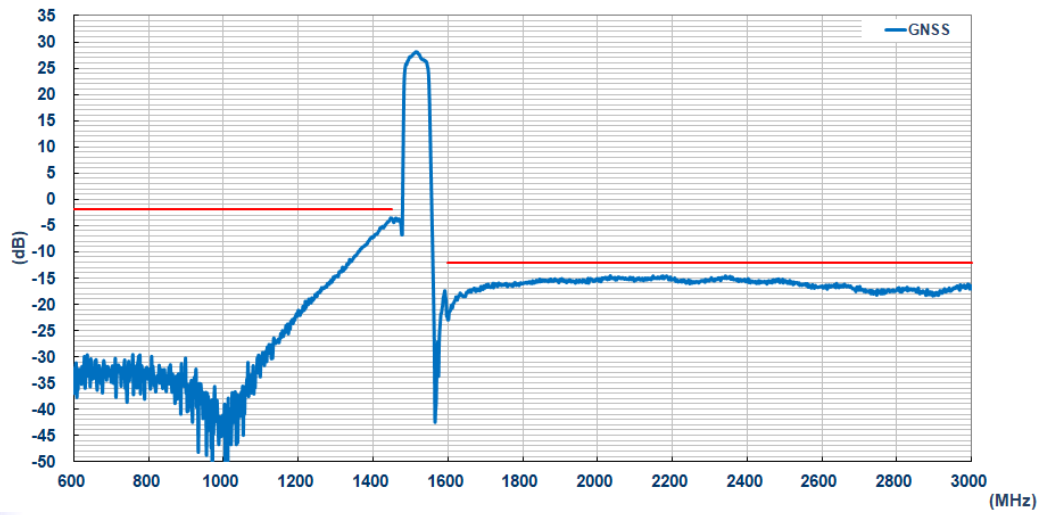
Peak Gain (dBi)



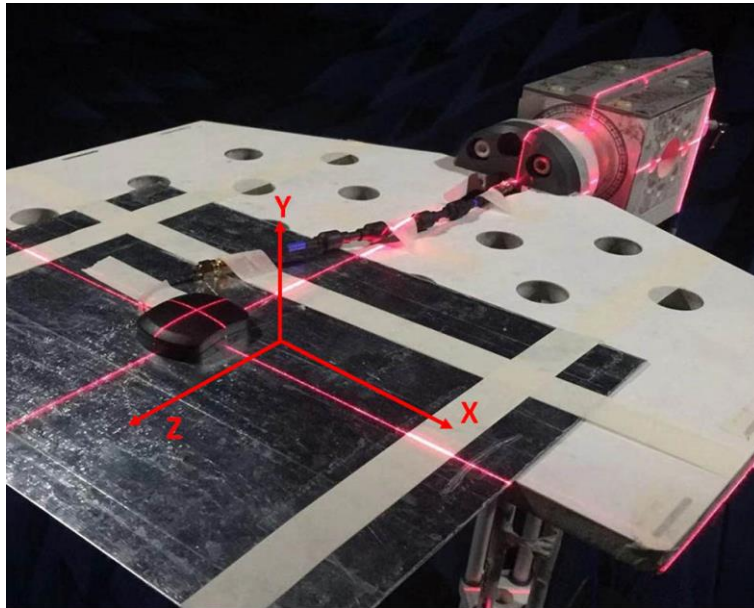
Noise Figure & Gain (dB)



Out of Band Rejection (dB)

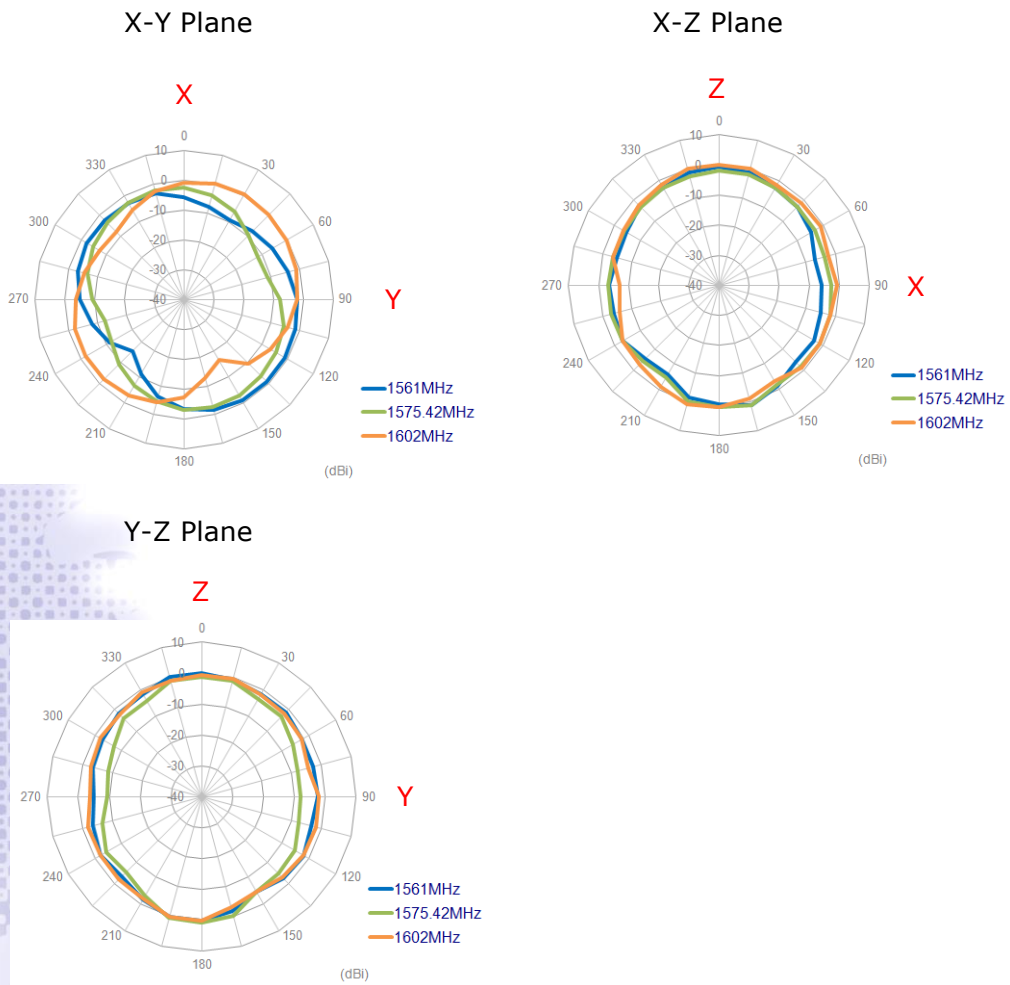


### III. Antenna Radiation Pattern Measurement:



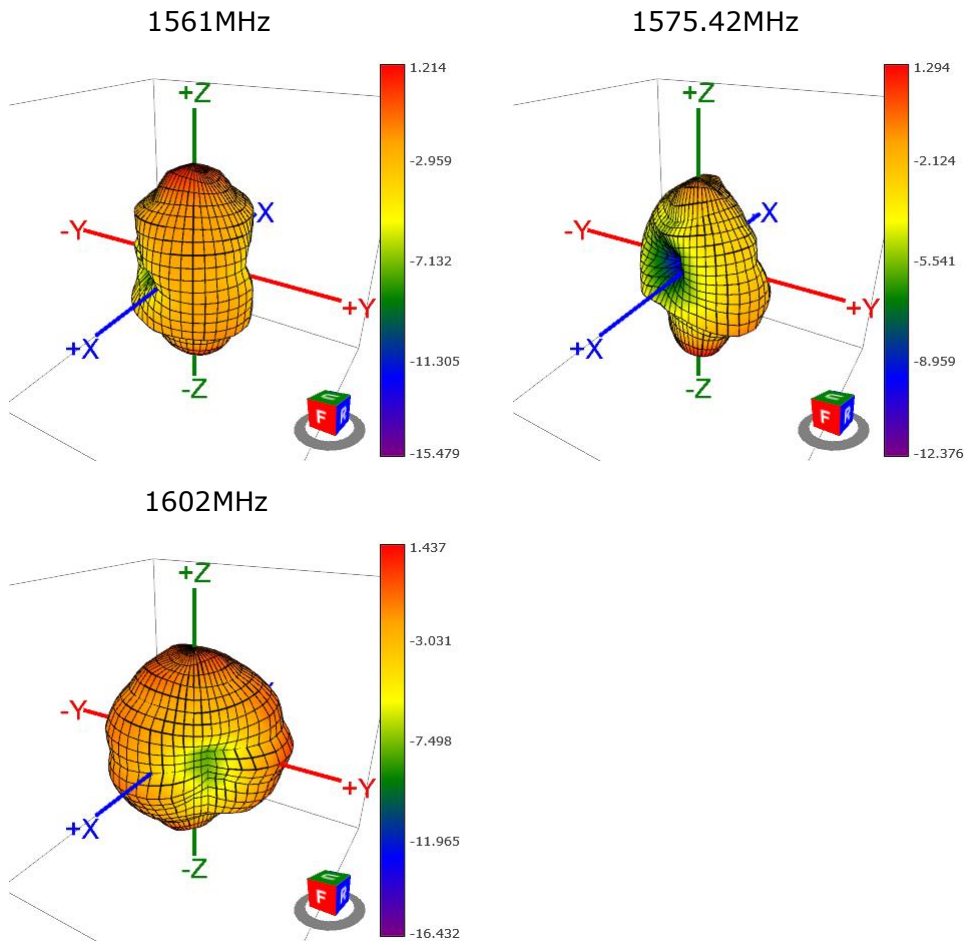
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### IV. 2D Radiation Pattern :





## V. 3D Radiation Pattern :



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## VI. Mechanical Drawing (Unit:mm):

