



Product Name: EG-2B Series External One Port GNSS Antenna

Part Number: EG-2B-AS-B01

Features:

- GPS/GLONASS/BEIDOU L1 Bands Supporting
- 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

WI-RD-D-317 V1.0

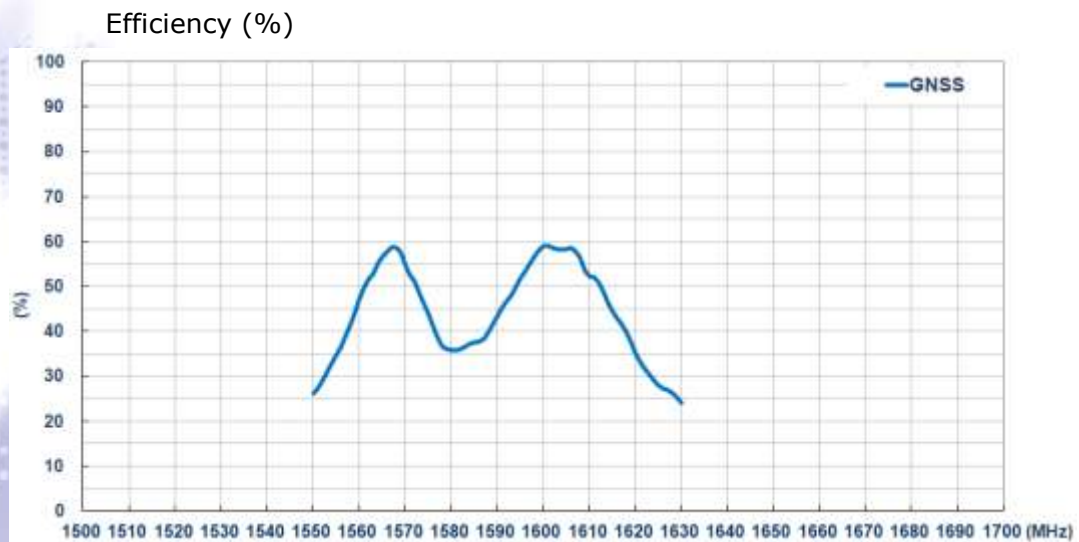
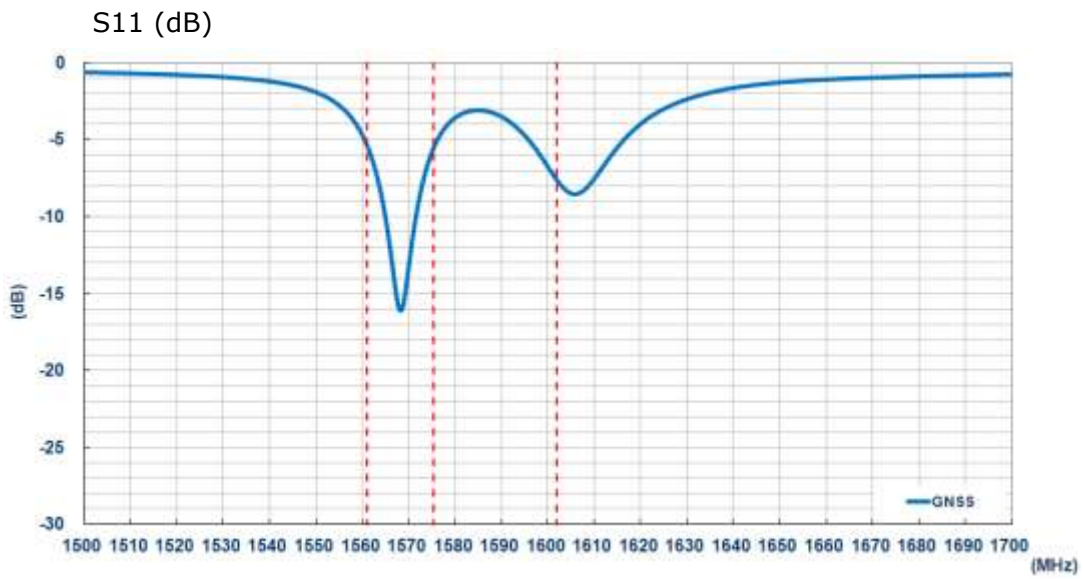
I. Specifications:

Category	Specifications		
Application Band	BeiDou	GPS	GLONASS
Frequency (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 band	BeiDou	GPS	GLONASS
Frequency (MHz)	1561 ± 2.046	1575.42 ± 1.023	1602 ± 5
Gain (dB)	27	27	27
Noise Figure (dB)	0.98	0.98	0.92
Current Consumption	9.0mA (typical)		
Output Impedance (Ω)	50		
GNSS_ Out of Band Rejection			
Frequency (MHz)	600~1300	1300~1530	1650~3000
Rejection (dB)	55	30	30
ESD Protection	+/- 8 KV (direct discharge) and +/- 15KV (air discharge)		
Cable / Connector	3 meters, H-100 / SMA (Male)		
Mechanical			
Dimension (mm)	46.24(L) x 38.14(W) x 12.32(H)		
Waterproof Resistant	IP67		

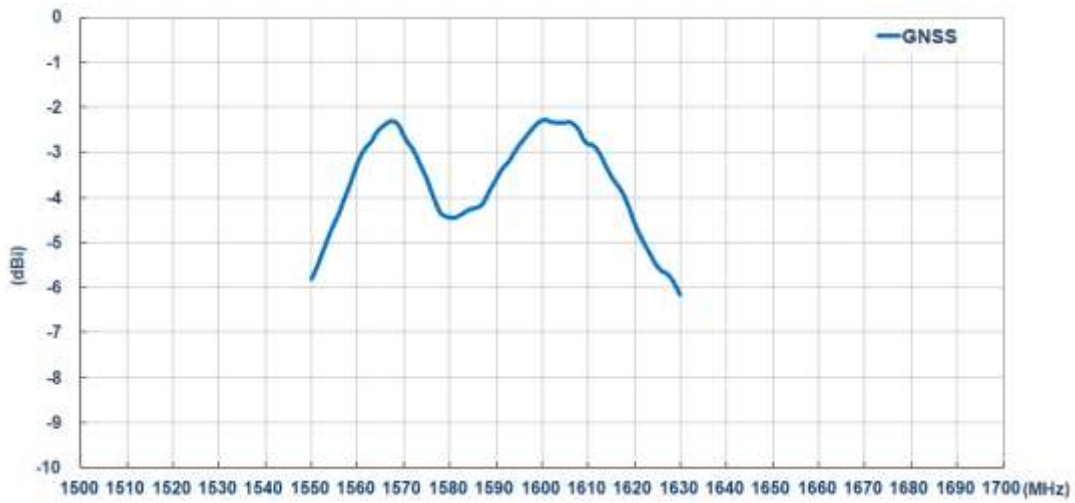
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Environmental Conditions	
Operation Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85

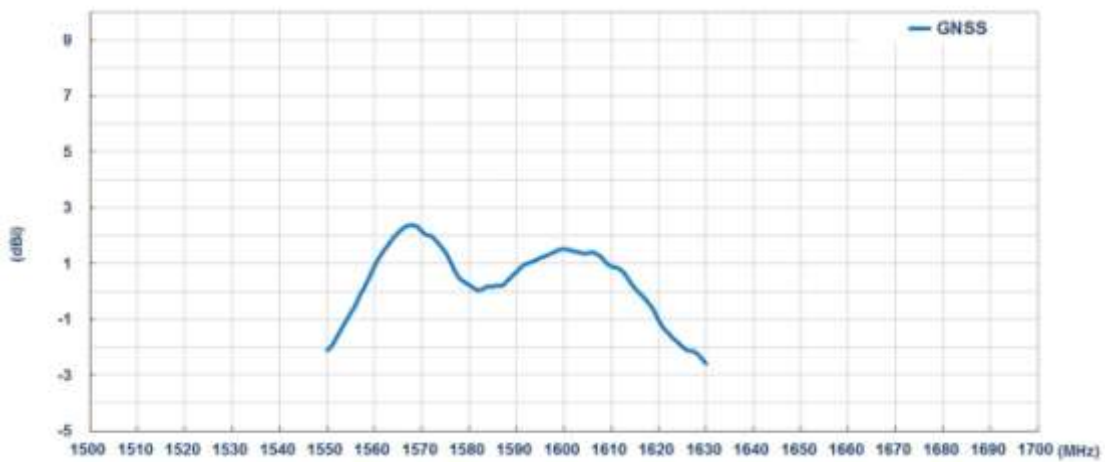
II. Analysis Antenna Performance:



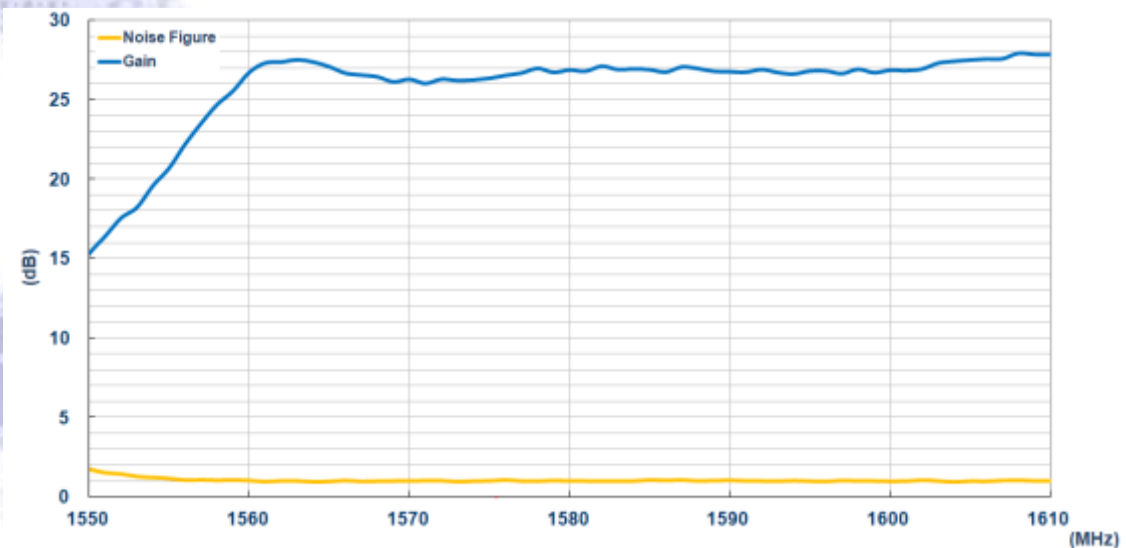
Average Gain (dBi)



Peak Gain (dBi)



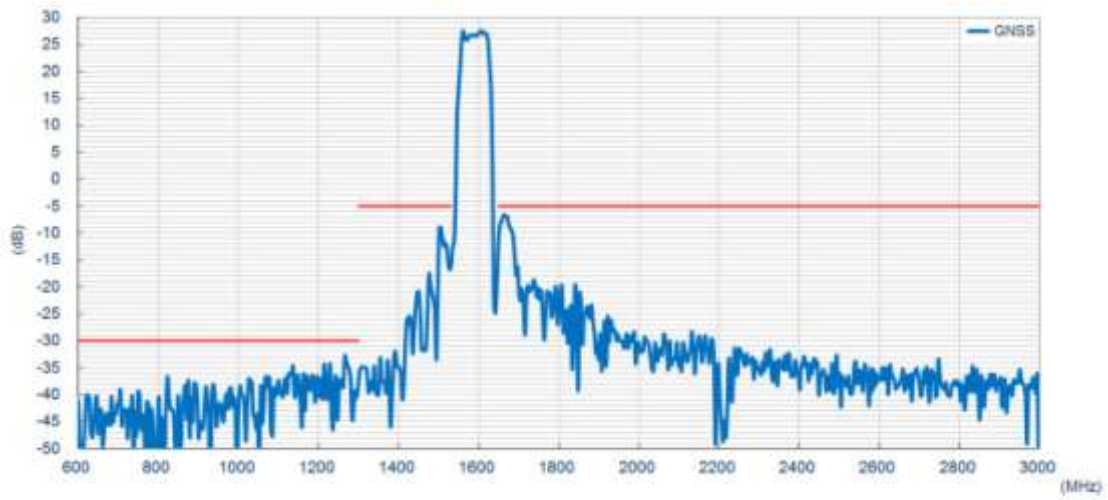
Noise Figure & Gain (dB)



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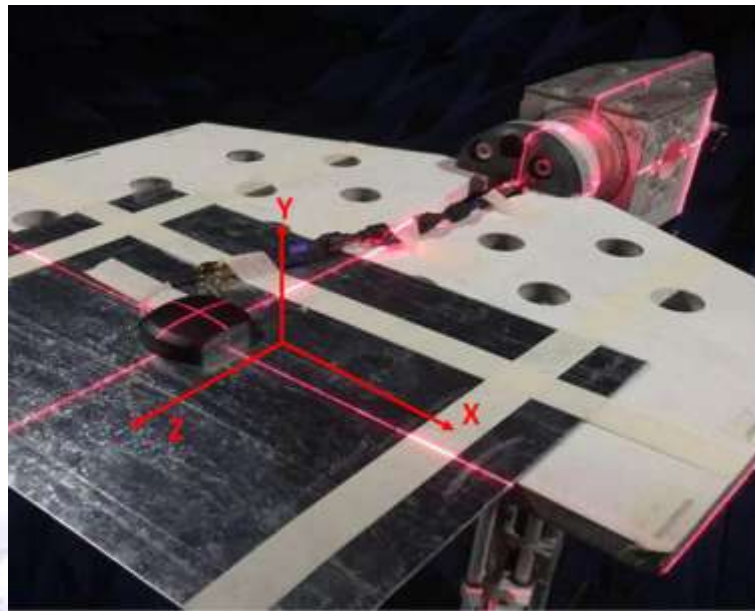


Out of Band Rejection (dB)

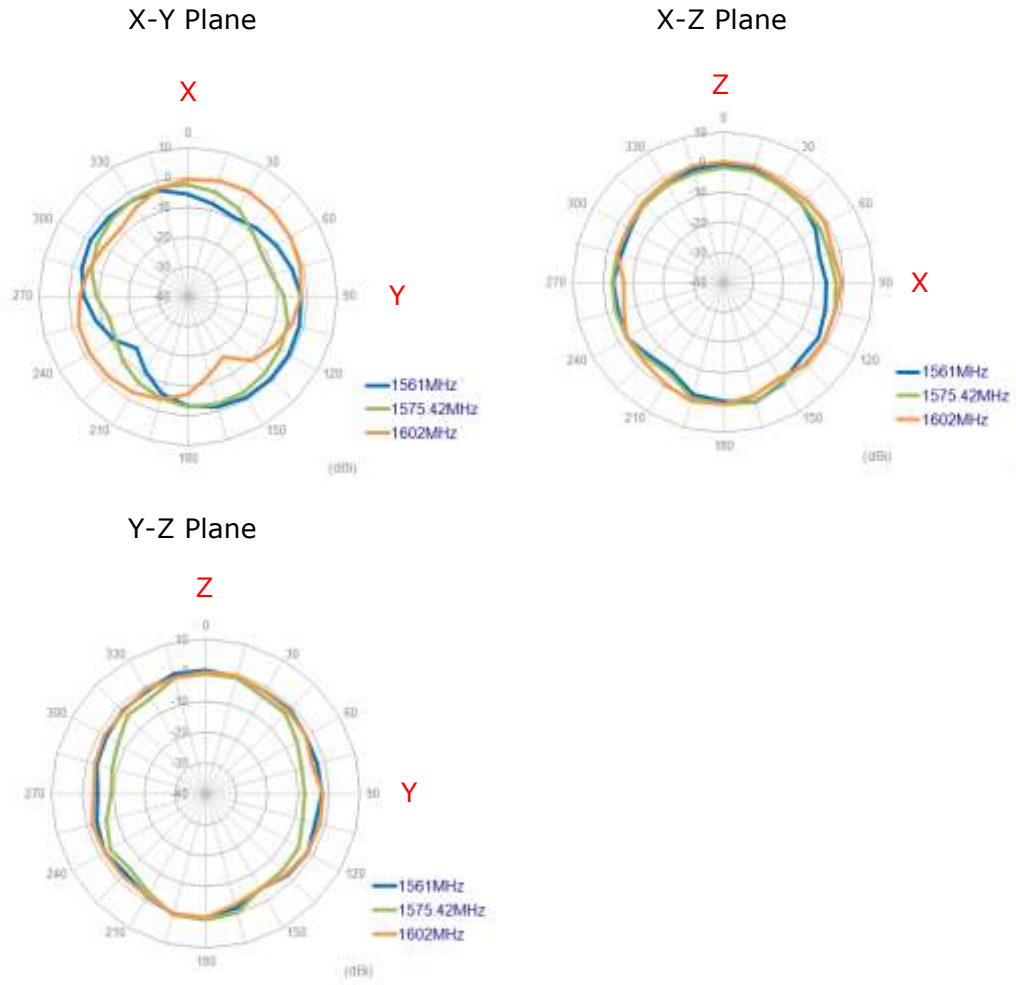


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III. Antenna Radiation Pattern Measurement:

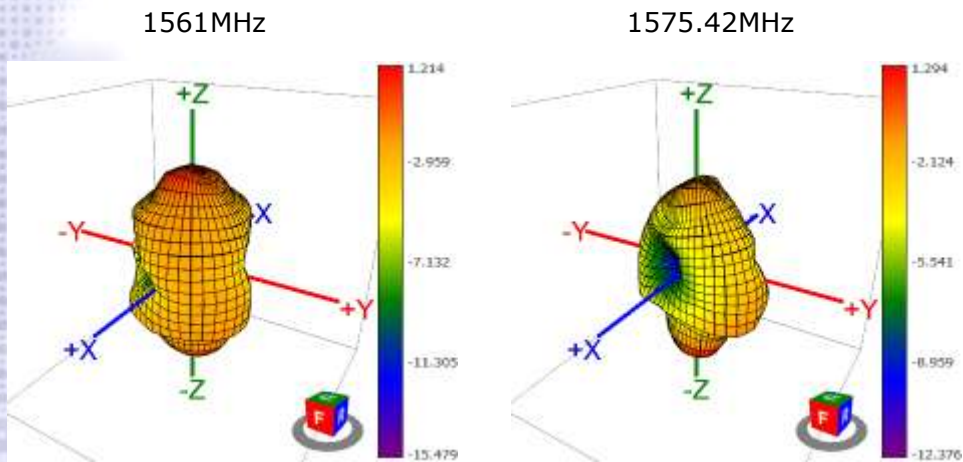


IV. 2D radiation pattern :

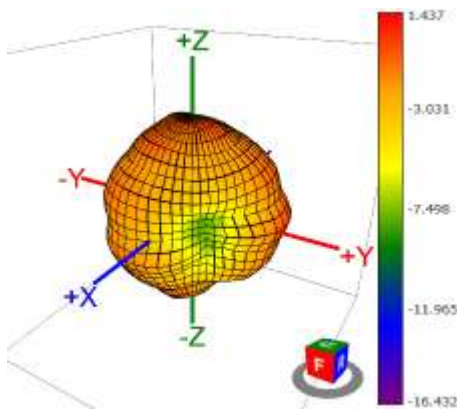


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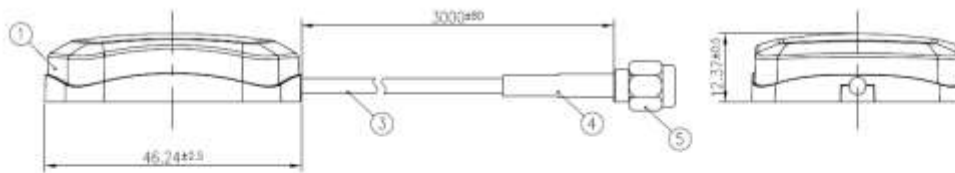
V. 3D radiation pattern :



1602MHz



VI. Mechanical Drawing (Unit:mm):



6	Label	Polyester	Silver	1
5	SMA(SP) Connector	Brass	Au Plated	1
4	Heat Shrink Tube	EVA	Black	1
3	Cable H-100	PVC	Black	1
2	MA25 Bottom Housing	PC+ABS	Black	1
1	MA25 Top Housing	PC+ABS	Black	1
No	NAME	MATERIAL	FINISH	QTY

