



Product Name: Active GPS/Glonass/Beidou L1 Antenna Module

Part Number: AM-1-A-B01

Feature:

- 25.2*25.0*7.8mm Compact Form Factor
- GPS & GLONASS & Beidou L1 Bands Supported
- 27dB LNA Gain, Exceptionally Low Noise Figure
- Up to 50dB Out-of-Band Suppression

Application:

- GNSS Navigation or Tracking Device

Active GPS/Glonass/Beidou L1 Antenna Module

MODEL: AM-1-A-B01

WI-RD-D-155 V1.0

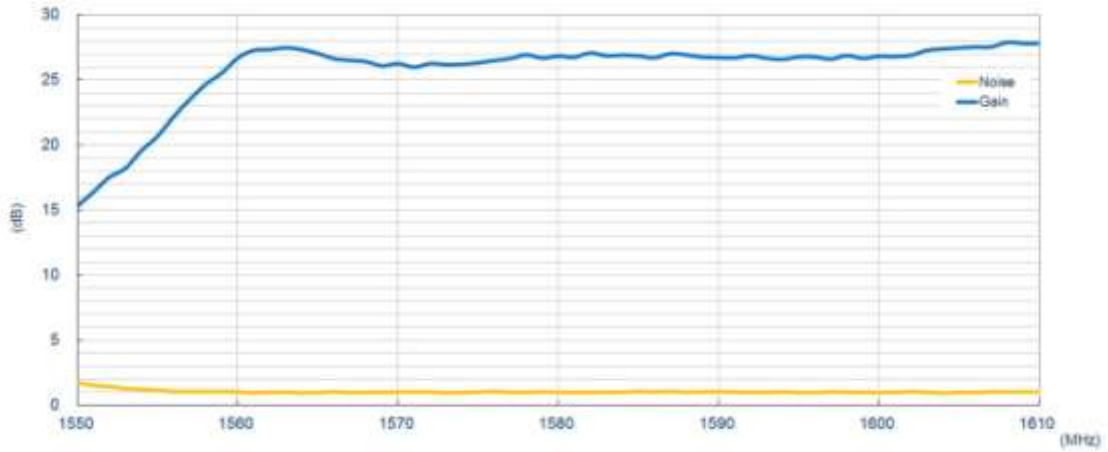
I. Specifications:

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
Active Antenna Performance			
Application band	BeiDou	GPS	GLONASS
Frequency (MHz)	1561±2.046MHz	1575.42±1.023MHz	1602 ±5MHz
Gain (dB)	27	27	27
Noise Figure (dB)	0.98	0.98	0.92
Current Consumption	9.0mA(typical)		
Output Impedance	50Ω		
GNSS_Out of Band Rejection			
Frequency (MHz)	600~1300	1300~1530	1650~3000
Rejection (dB)	55	30	30
Passive antenna performance			
VSWR	< 2		
Return loss (dB)	< -10		
Impedance	50Ω		
Dimension	25.2 x 25.0 x 7.8 mm		
Polarization	RHCP		
ESD Protection	+/- 8 kV (direct discharge) and +/- 15kV (air discharge)		
Operation Temperature	-40~85°C		
Storage Temperature	-40~85°C		

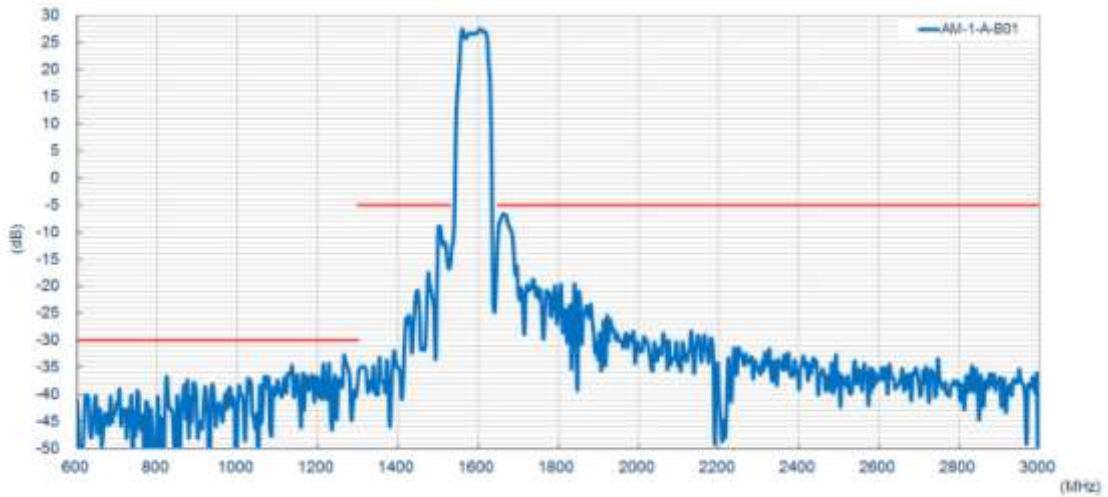
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II. Analysis Antenna Performance:

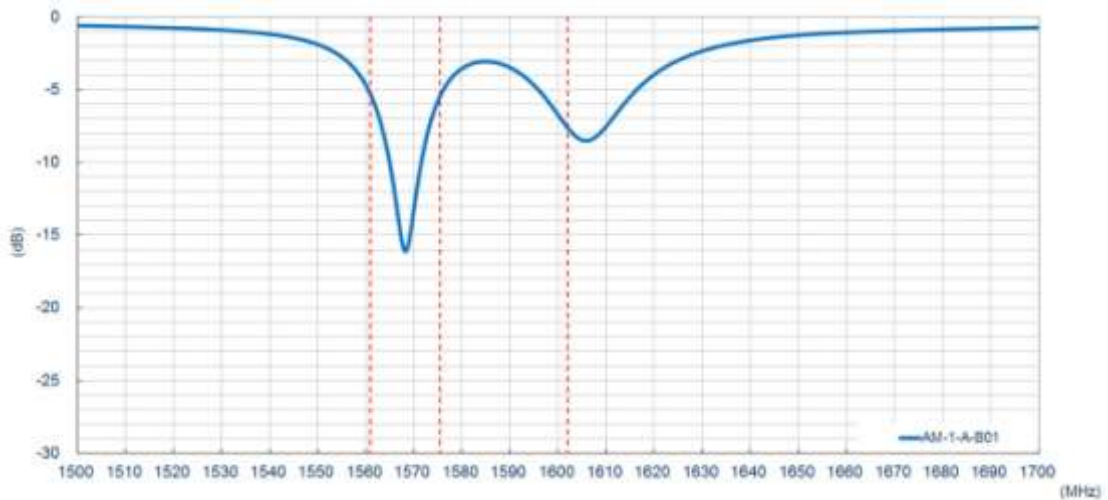
GNSS_LNA Noise Figure & Gain :



GNSS_Outband Rejection :

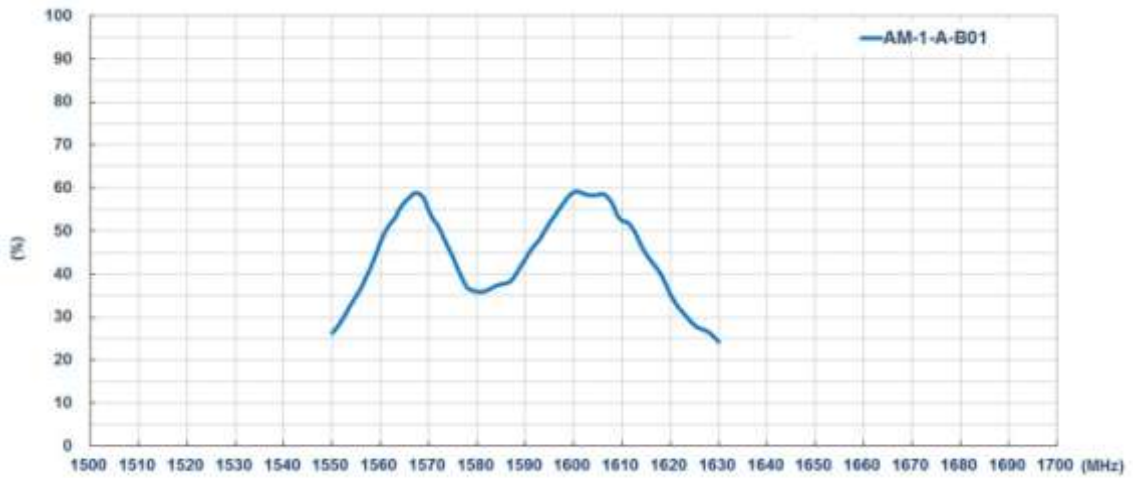


S-parameters :



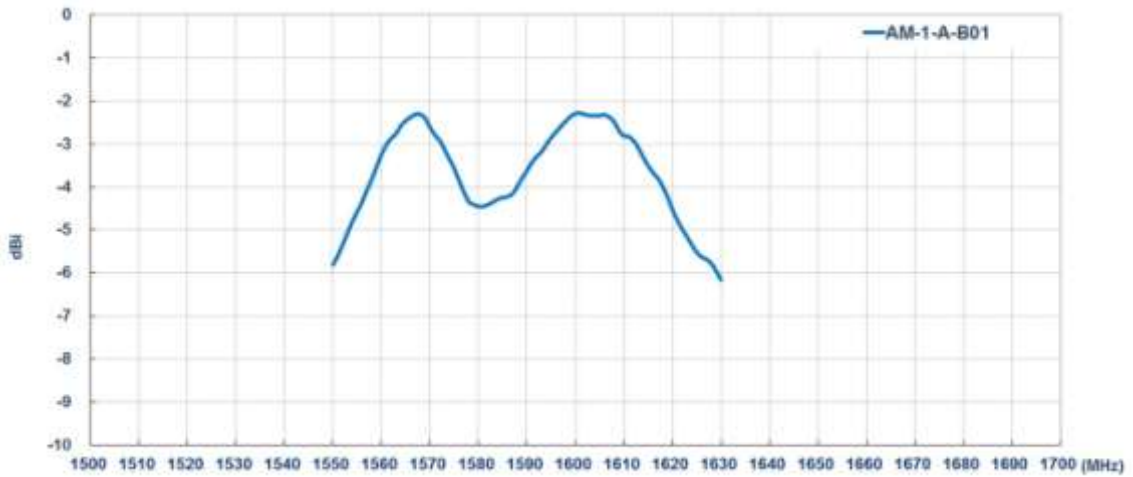
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Efficiency :

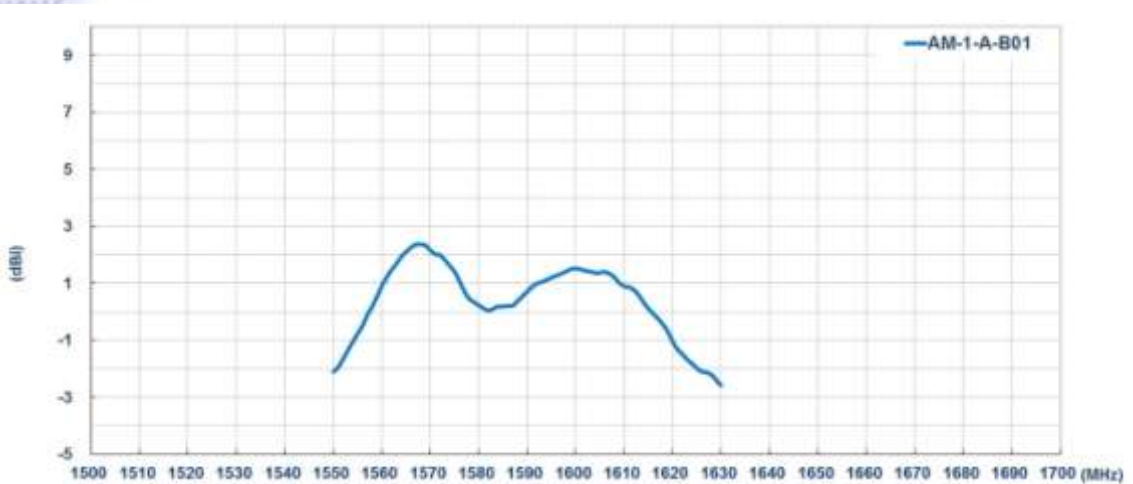


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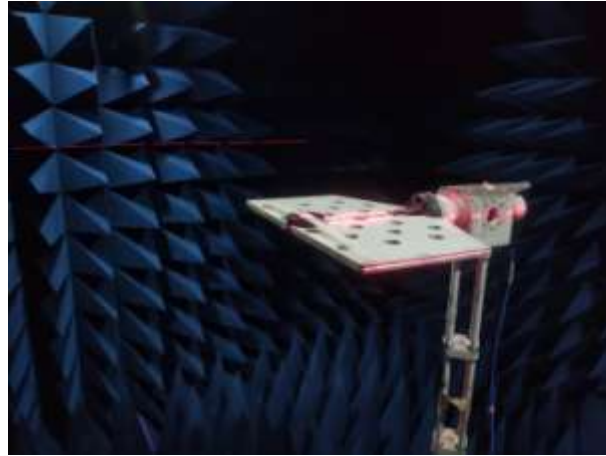
Average gain :



Peak gain :

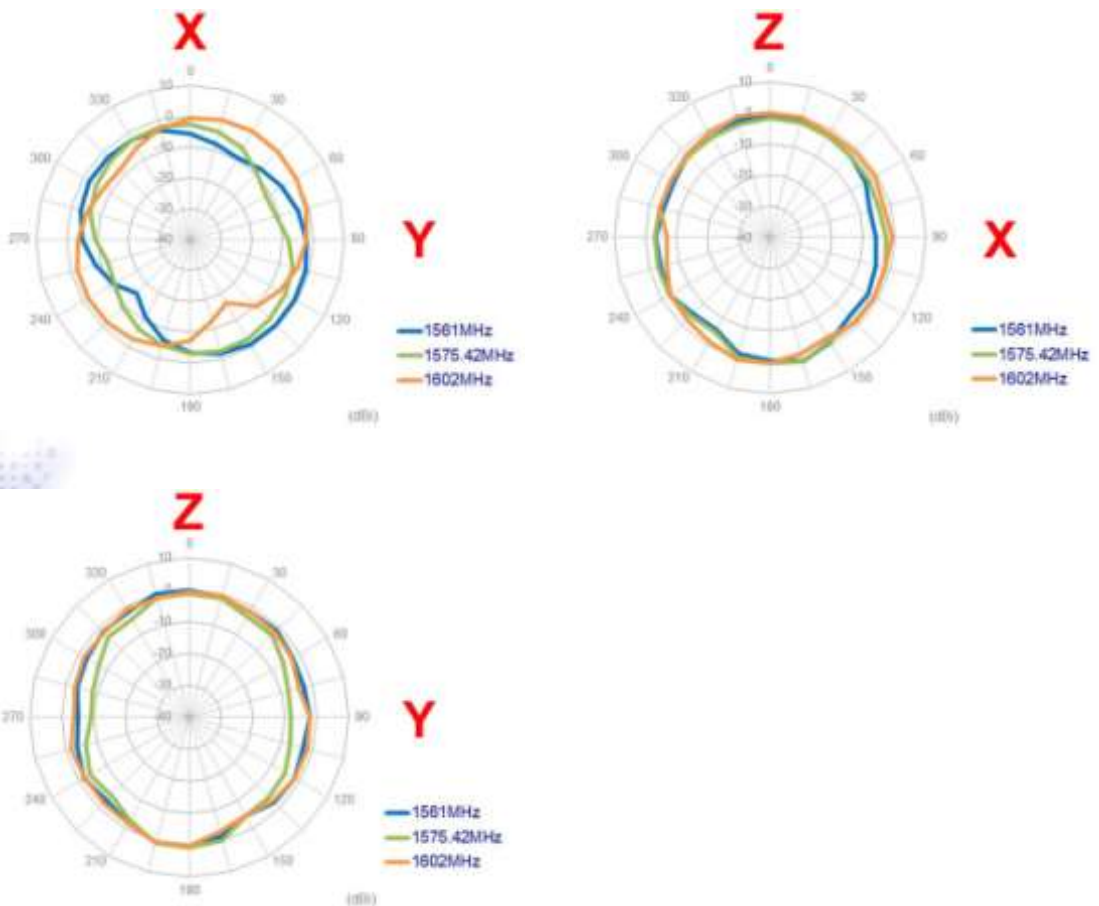


III. Antenna Radiation Pattern Measurement:



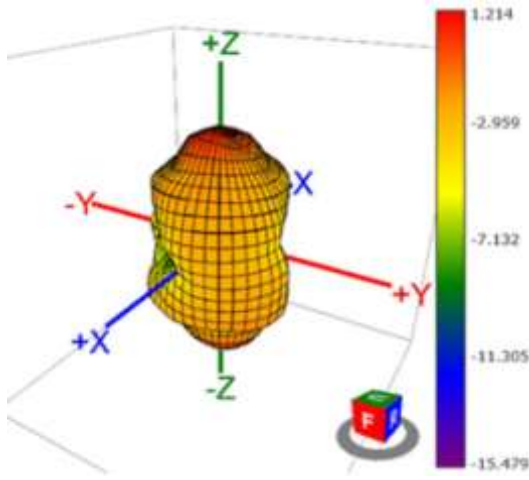
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2D Radiation Pattern

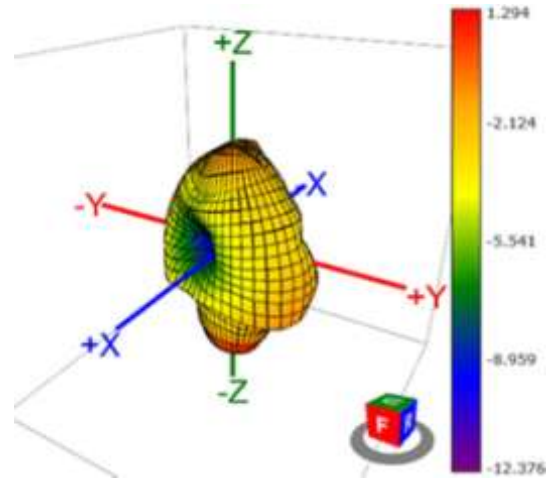


3D Radiation Pattern

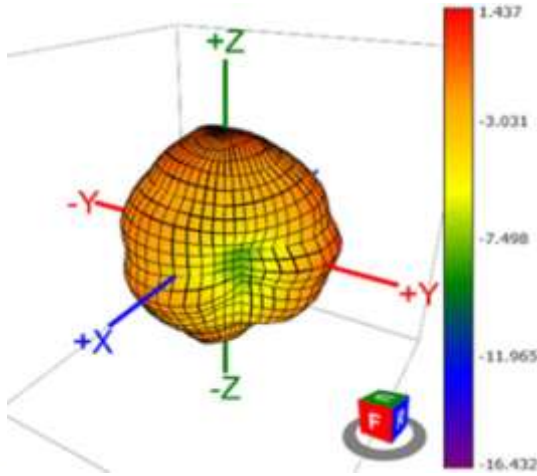
1561 MHz



1575.42 MHz



1602 MHz



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IV. Mechanical Drawing (Unit:mm):

