

ADA-111H



ADA-111H GNSS High Gain Antenna

Feature:

- GPS/GLONASS/BeiDou/Galileo/QZSS bands
- 48dB High gain wide-band patch antenna
- TNC Connector

Application:

- AVL (Automatic Vehicle Location)
- Car Navigation and Navigation Devices
- Security Surveillance and Military & Security
- Vehicle tracking /Fleet Tracking/Asset Tracking
- Oil & Gas Industries
- Law Enforcement
- LBS & M2M Application

RoHS/Reach



ADA-111H

Specifications:

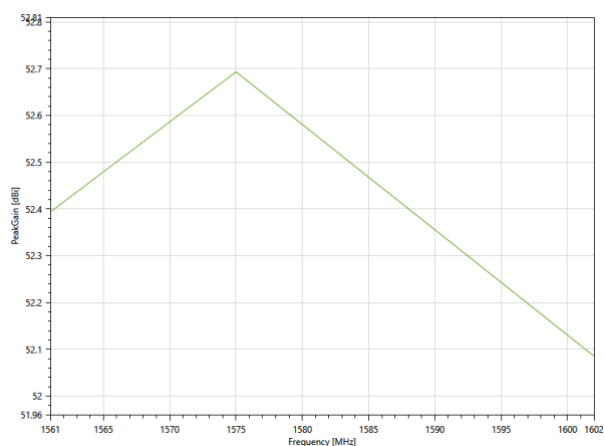
Category		Specifications		
Electrical Characteristics				
Satellite Frequency		1559~1610 MHz		
Absolute Gain @ Zenith (typical)		4 dBic		
Bandwidth@ Return Loss $\leq -10\text{dB}$		≥ 51 MHz		
Low Noise Amplifier				
LNA Gain (typical)		48 dB		
Noise Figure (typical)		2.4 dB		
Supply Voltages		3~5V DC		
Current Consumption (typical)		15 mA		
Output V.S.W.R		2.0 max		
Overall Specification (Antenna Element & LNA)				
Center Frequency		1561 MHz	1575.42 MHz	1602 MHz
Gain @ Zenith		52 \pm 3 dB		
Output Impedance		50 Ω		
Output V.S.W.R		2.0 max		
Cable and Connector				
Cable		RG-58 (Length is suggested between 3~5M)		
Connector		TNC (SBJ)		
Category		Specifications		
Physical Condition				
Dimension		$\phi 115(\text{D}) \times 75.2(\text{H})$ mm		
Weight		246 g		

Environmental Conditions	
Operation temperature	-40°C to 85°C
Storage Temperature:	-40°C to 85°C
Relative Humidity	+40±2 °C, 90~95%R.H
Enclosure Rating:	IPX7
ESD circuit protection	15 KV Air Discharge , 8 KV Contact Discharge

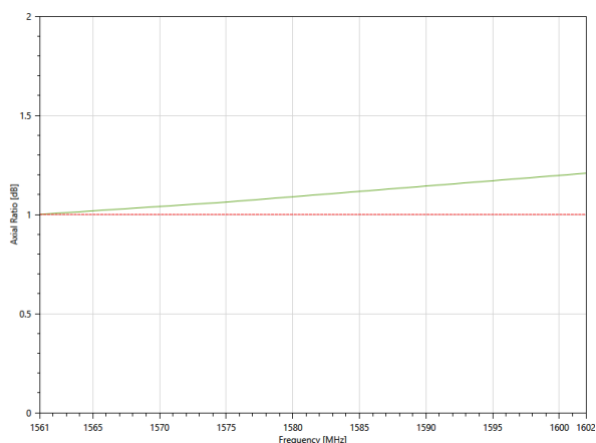
* This specification is subject to change without prior notice

Antenna Technical Parameters:

Radiation Gain Chart _ Antenna + LNA Circuit

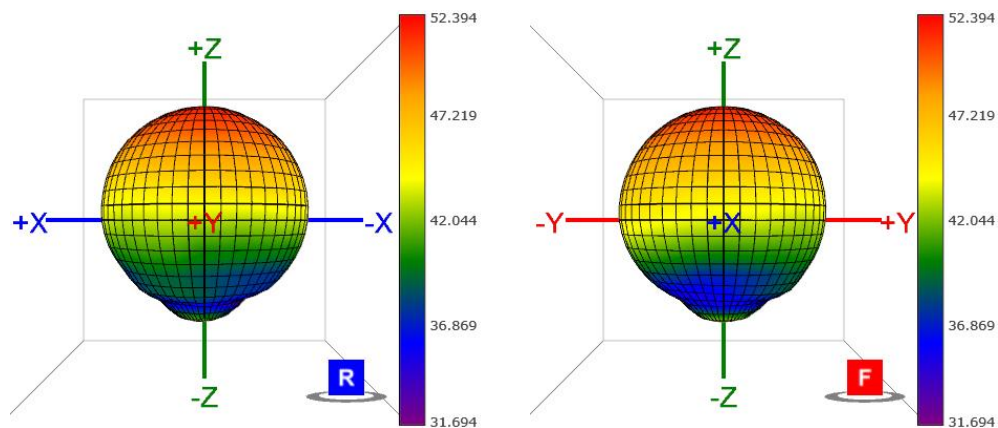
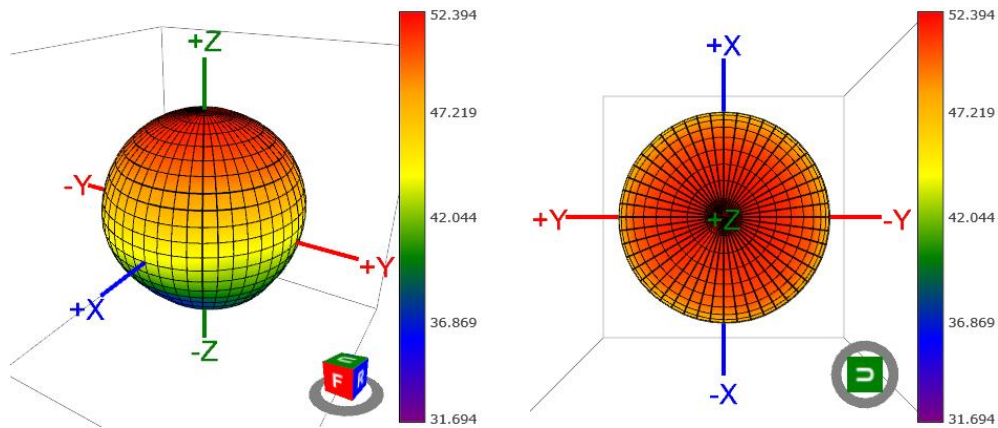


Axial Ratio

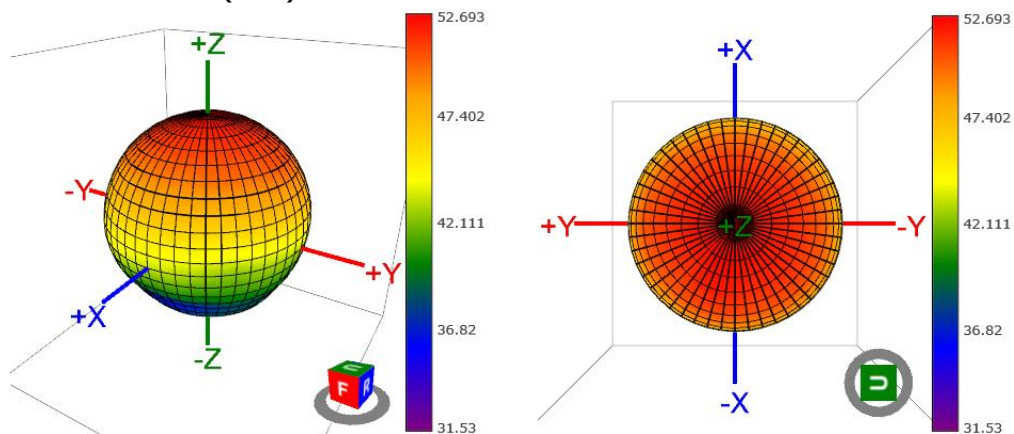


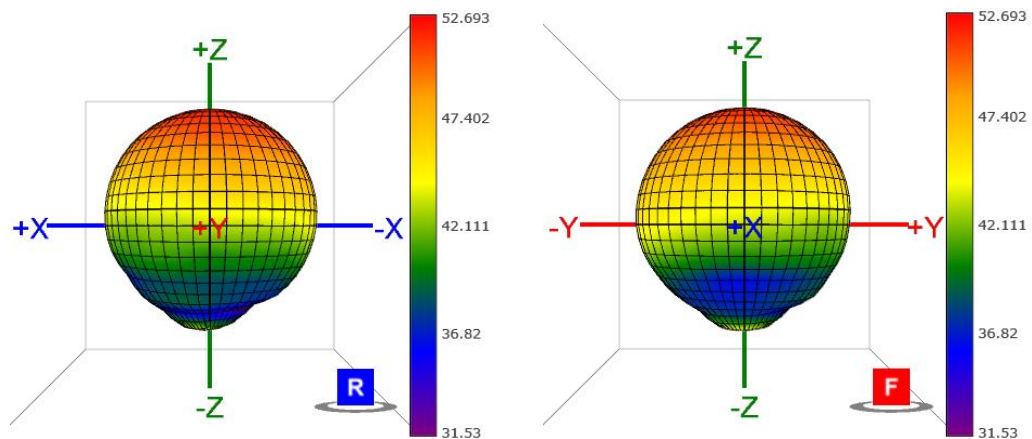
3D Radiation Pattern:

1561MHz (dBi)

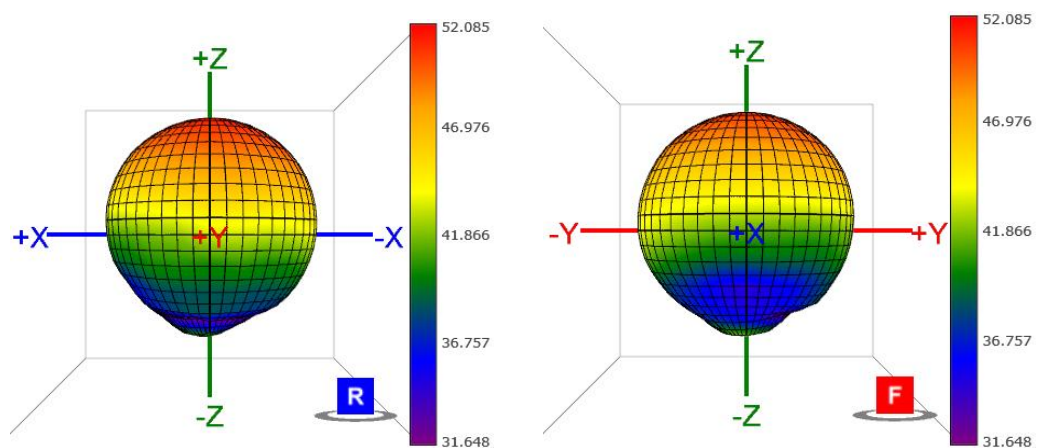
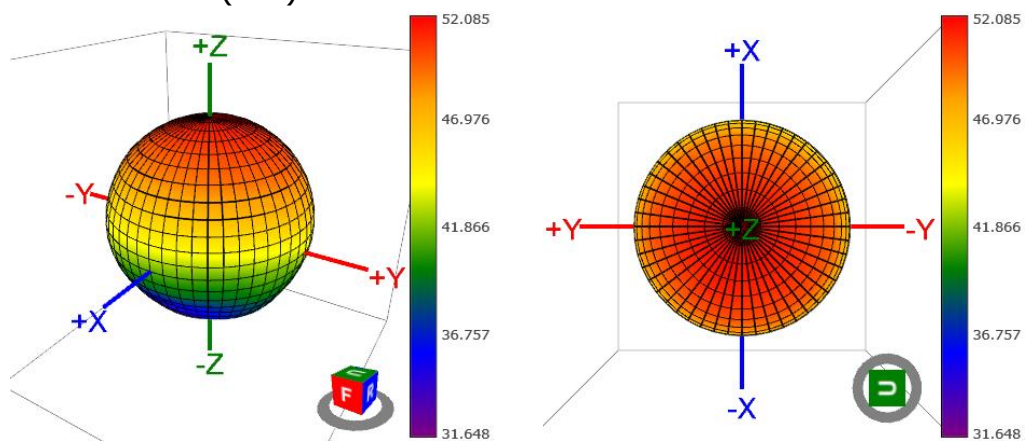


1575MHz (dBi)

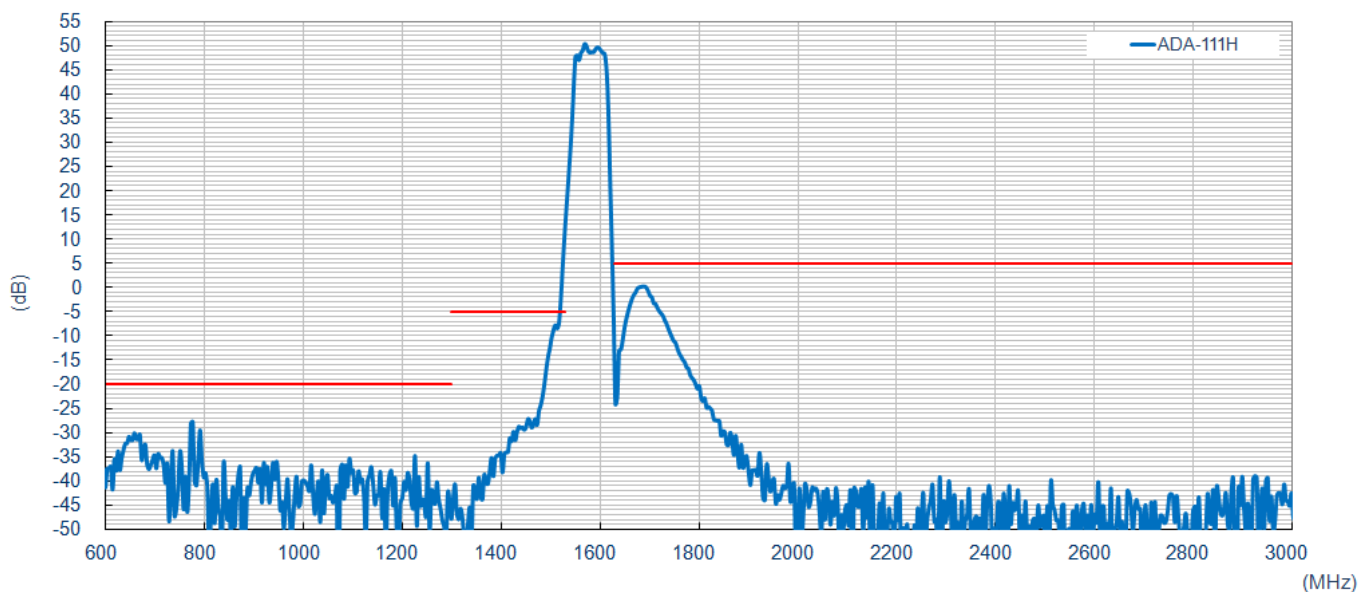




1602MHz (dBi)



I. out-of-band rejection



II. ESD

ESD	
Contact	±8KV
Air	±15KV

III. Mechanical Drawing (Unit:mm):

