



**ADA-0067** External "Dust/Snow off" Screw Mount GNSS Antenna

**Feature:**

- GPS L1, GLONASS L1, BEIDOU B1, GALILEO E1, and QZSS L1 Frequencies
- Compact Construction / Low Profile / Fully Waterproof / Designed for harsh environment
- Special Cone Housing reduces the effect of snow or dust coverage, as well as bird perching
- Outstanding Out of Band Attenuation capability
- Anti-theft locking nut
- Ultra-High Sensitivity
- Optional Pole Mount Bracket Available to order

**RoHS/Reach**

# ADA-0067

## I. Specifications:

Category	Specifications	
Electrical Characteristics		
Polarization	R.H.C.P.(Right Handed Circular Polarization)	
Gain @ Zenith (typical)	1561 MHz	-0.5 dBic
	1575.42 MHz	2 dBic
	1598 ~ 1606 MHz	0.6 dBic
	Mounted on the 70mm x 70mm square ground plane	
Axial Ratio	3 dB max.	
	Mounted on the 70mm x 70mm square ground plane	
Low Noise Amplifier		
Frequency (MHz)	1561 ~ 1606	
Gain	35dB ±3dB @ 5V	
Bandwidth	51 MHz min. @ S11≤-10 dB	
Noise Figure (typical)	< 1.5 dB	
Supply Voltages	3 ~ 5.5V DC	
V.S.W.R	2.0 max.	
Current Consumption (typical)	12 mA	
Out of band rejection	f0=1586MHz	f0 ± 50MHz: ≥ 34 dB
		f0 ± 60MHz: ≥ 60 dB
ESD Protection		
Contact (KV)	± 8	
Air (KV)	± 16	

## ADA-0067

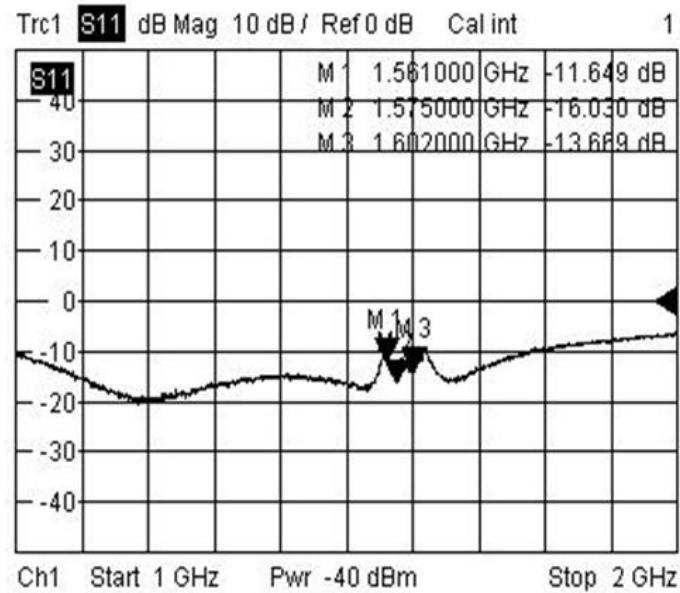
Overall Specification (Through Patch and LNA)			
Center Frequency (MHz)	1561	1575.42	1598~1606
Gain @ Zenith	35 ± 3dB (Cable loss) note 1.		
V.S.W.R	2.0 max.		
Output Impedance	50 Ω		
Physical Condition			
Construction	Polycarbonate radome detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof.		
Dimension (MM)	φ 60.5(D) x 78(H)		
Weight	125 g (w/o cable & connector)		
Color	Standard in ivory with 0.8 inch threaded wing nut(standard accessory )		
Mounting	Bulkhead mount with 0.8 inch threaded wing nut( standard accessory)		
Waterproof Resistant	IP67		
Cable & Connector			
RF Cable	5 meter RG174/U (standard) cable & length (optional)		
Pulling Strength	6 Kg @ 5sec.		
Connector Available	BNC, TNC, GT5, MCX(OSX), SMA, SMB or SMC. Straight or right angle.		
Optional Adapters	Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)		
Environmental Conditions			
Operation Temperature	-40 ~ 85 °C		
Storage Temperature	-40 ~ 85 °C		
Relative Humidity	95% non-condensing		

Note 1:Cable loss-(-1.2dB/m)

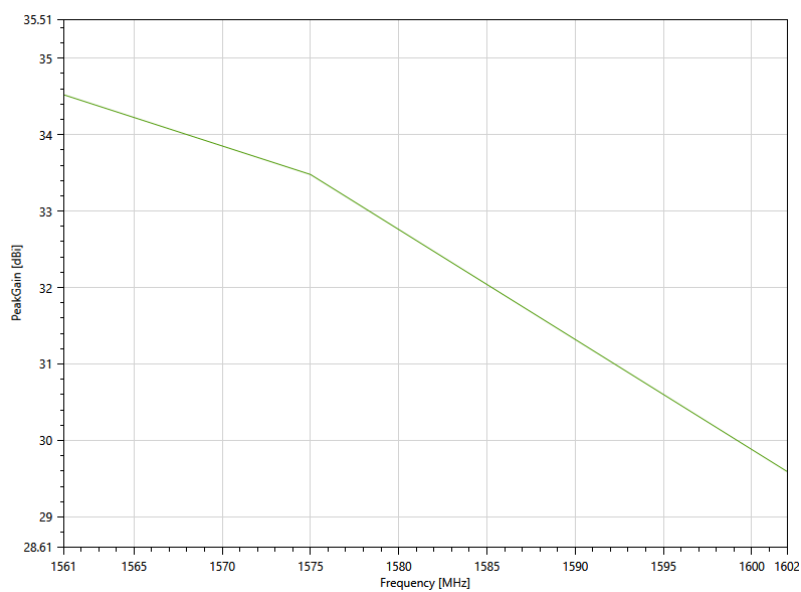
# ADA-0067

## Antenna Technical Parameters:

S11



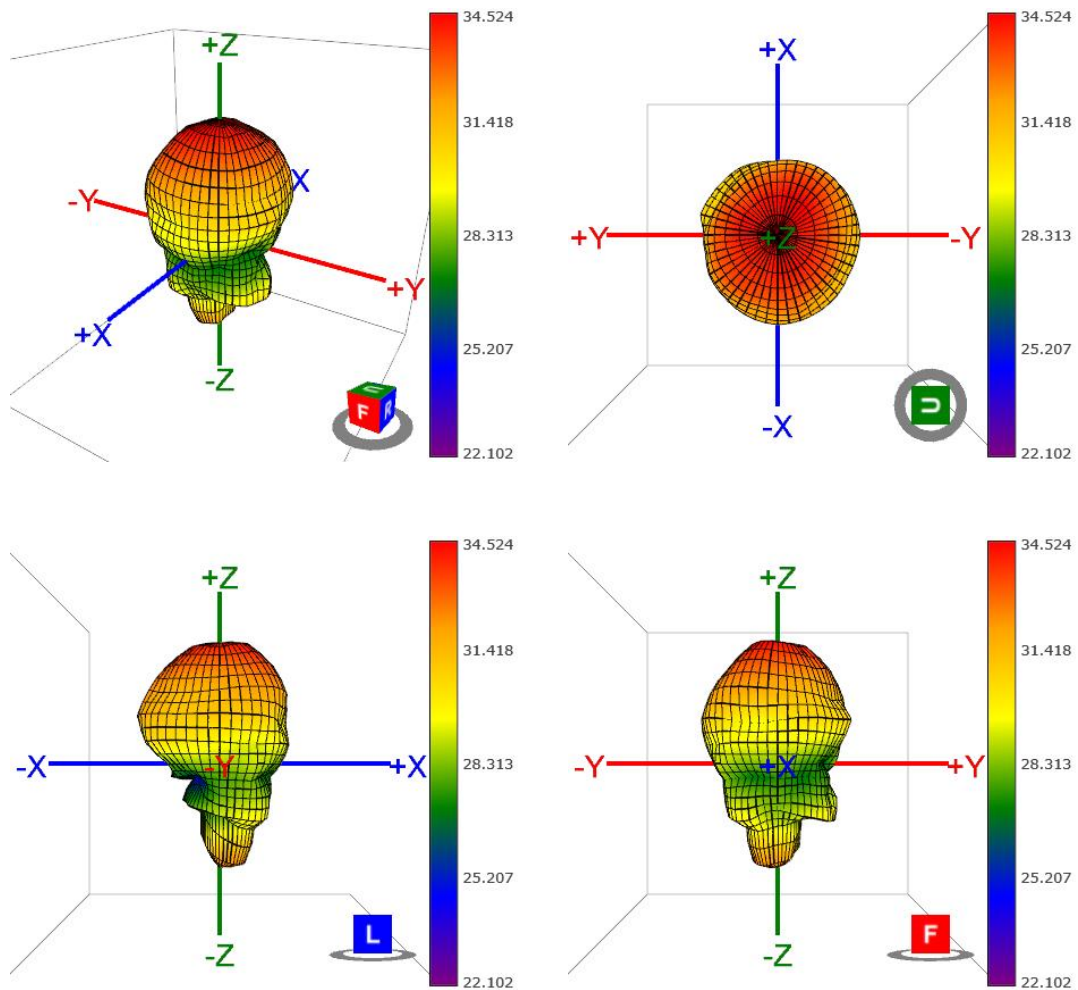
Peak Gain (dBi)



# ADA-0067

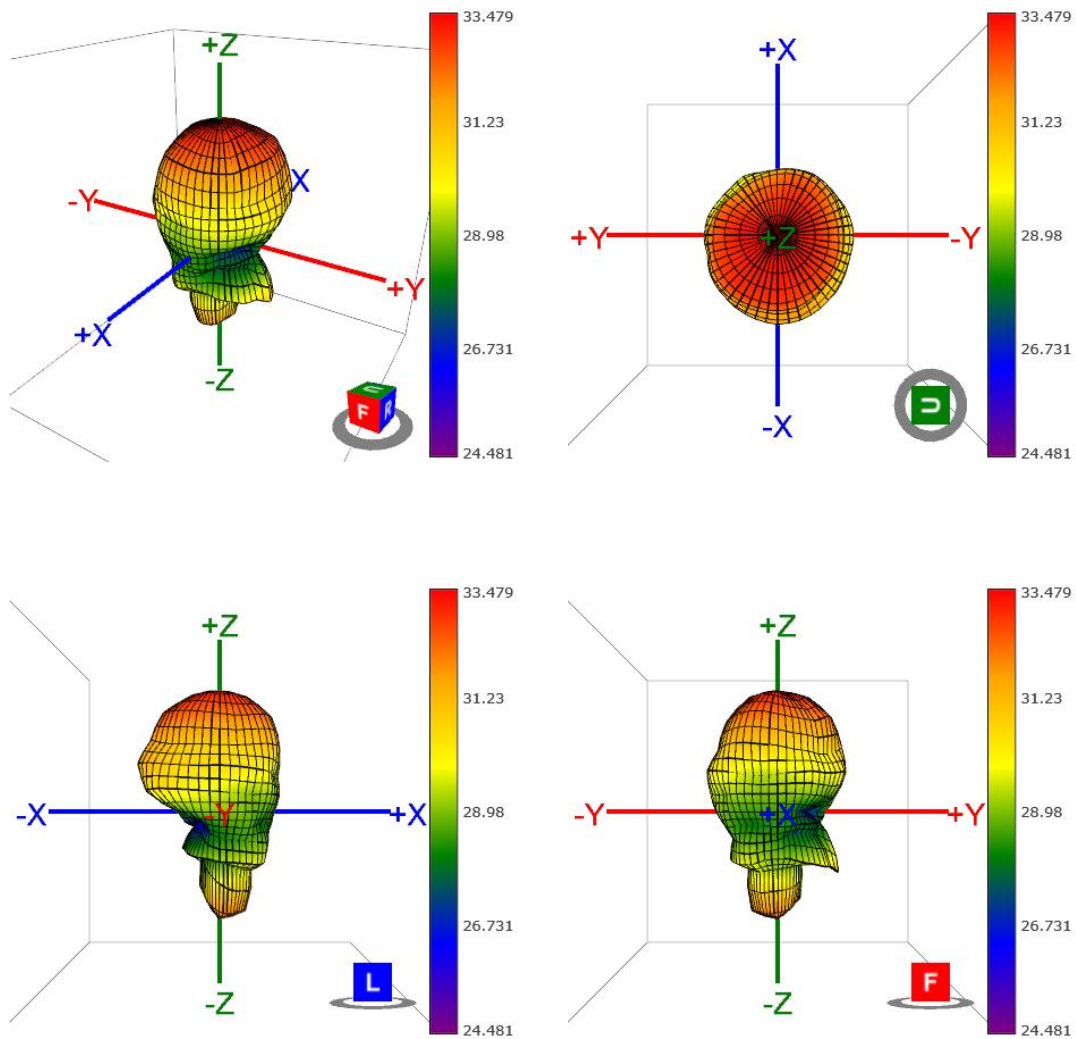
## 3D Radiation Pattern:

1561MHz (dBi)



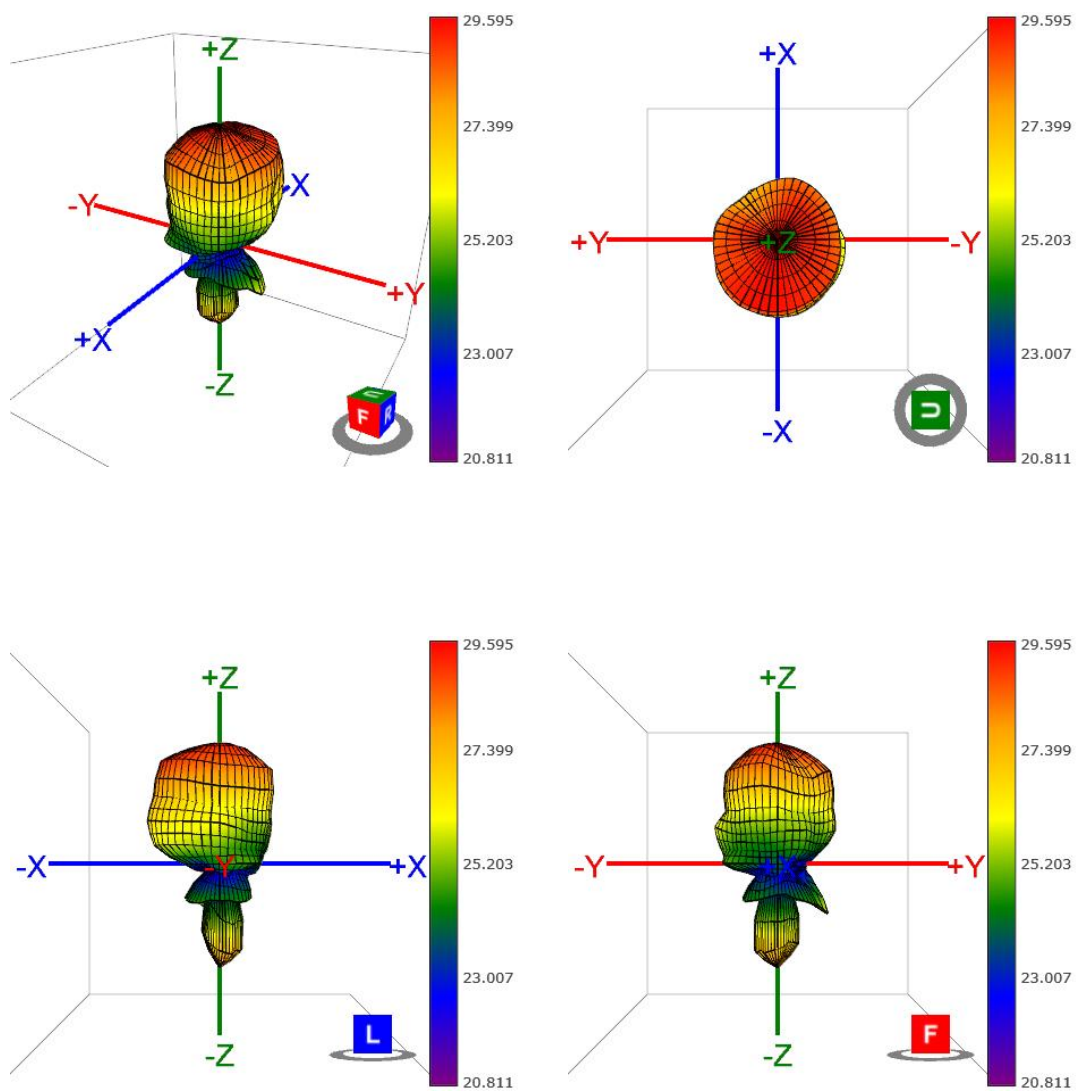
# ADA-0067

1575MHz (dBi)



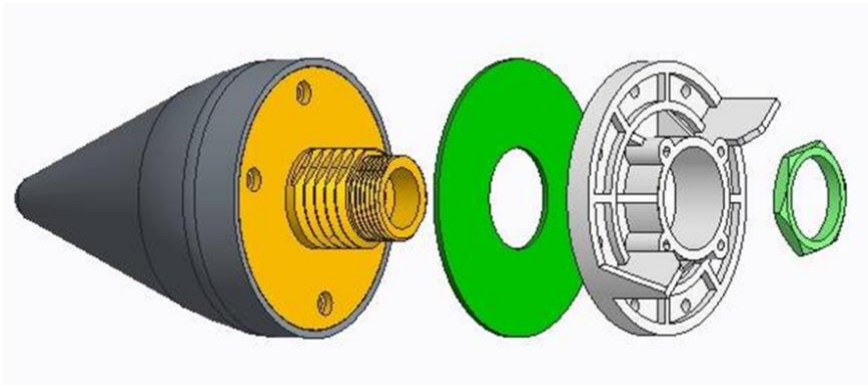
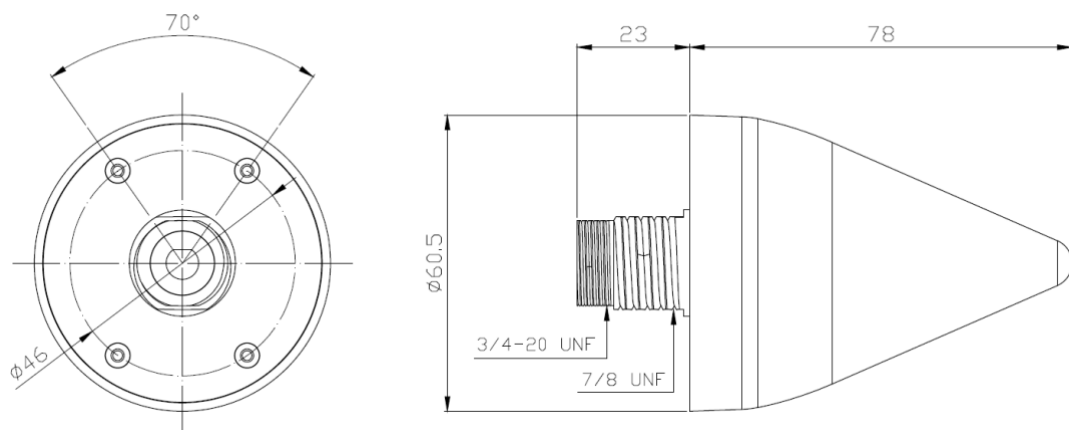
# ADA-0067

1602MHz (dBi)



# ADA-0067

## II. Mechanical Drawing (mm):

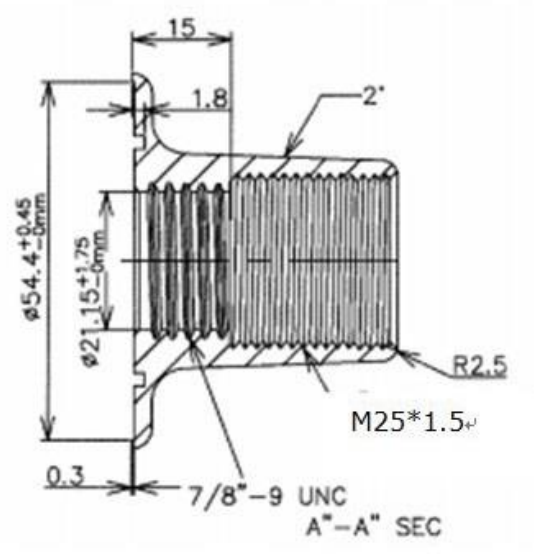
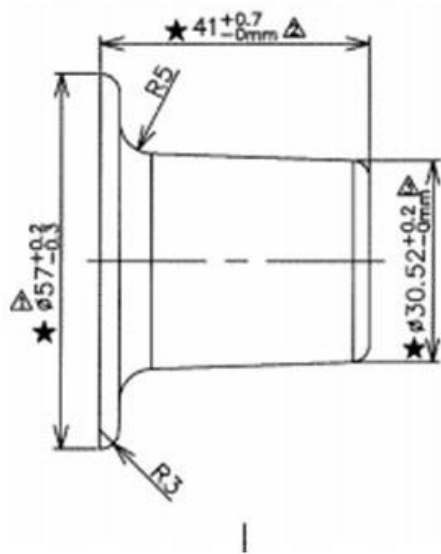


Tolerance: 0.3mm



# ADA-0067

Pole Mount



Unit: mm