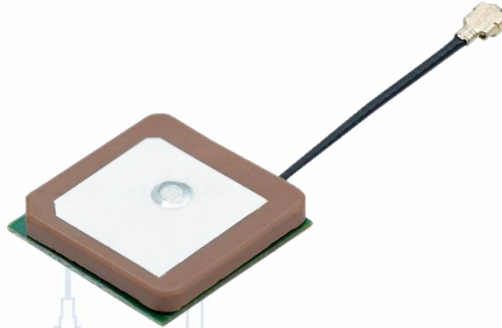




Product Name : 25*25*4mm GNSS L1 Antenna Module

Part Number : AM-1-E-N02

Features:

- Support GPS L1/ GLONASS L1 Bands
- Excellent Out of Band Rejection, Up to 30dB
- 16dB $\pm$ 2 LNA Gain
- Customizable Cables and Connectors
- RoHS & REACH Compliant

Applications:

- Navigation System Application
- Personal Tracker Device

25*25*4mm GNSS L1 Antenna Module

MODEL: AM-1-E-N02

Rev.A

I. Specifications:

Items	Specifications	
Passive Antenna Performance		
Application Bands	GPS	GLONASS
Frequencies (MHz)	1575.42 ± 1.023	1602 ± 4
Peak Gain (dBi)	2	
Axial Ratio	< 5	
V.S.W.R	< 1.5	
Test Condition	With 28*28mm Ground Plane	
Horizontal Coverage Angle	360°	
Impedance (Ω)	50	
Polarization	R.H.C.P. (Right-Handed Circular Polarization)	
Active Antenna Performance		
Application Bands	GPS	GLONASS
Frequencies (MHz)	1575.42 ± 1.023	1602 ± 5
Gain (dB)	16	15
Noise Figure (dB)	1.86	1.96
Operation Voltage (V)	2.7 ~ 3.3	
Current Consumption (mA)	7.73 ± 2	
Output Impedance (Ω)	50	

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All specifications subject to change without notice.

Out of Band Rejection		
Frequencies (MHz)	600 ~1530	1660 ~ 3000
Out of Band Rejection (dB)	19	30
ESD Protection		
Contact Discharge (KV)	± 8	
Air Discharge (KV)	± 15	
Mechanical Specifications		
Dimension (mm)	25.0 x 25.0 x 4.0	
Connector	IPEX	
Cable	1.13mm Mini-Coax	
Length (mm)	30	
Environmental Conditions		
Operation Temperature (°C)	-25 ~ +75	
Storage Temperature (°C)	-40 ~ +85	
Relative Humidity (%)	40 ~ 95	

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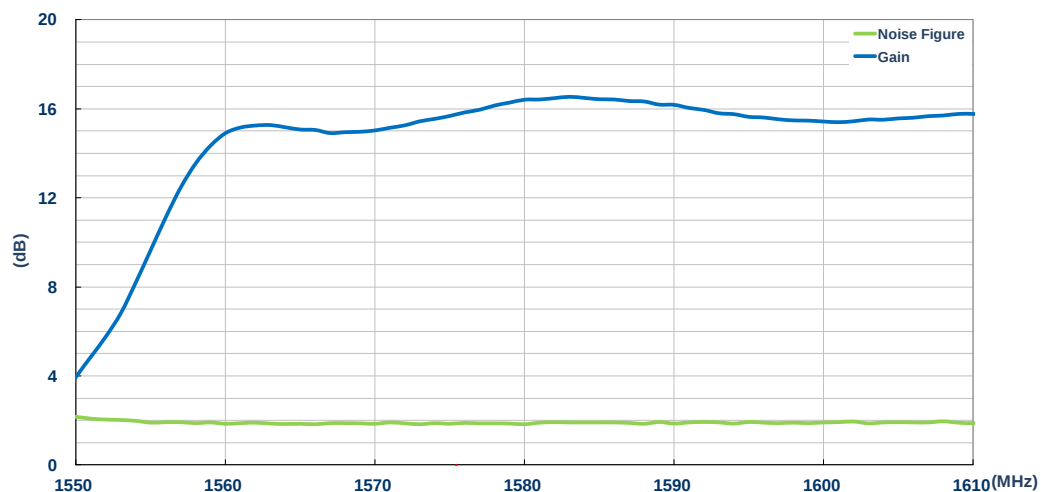
II. Antenna Technical Parameters:

With 28*28mm Ground Plane

S11 (dB) and Smith

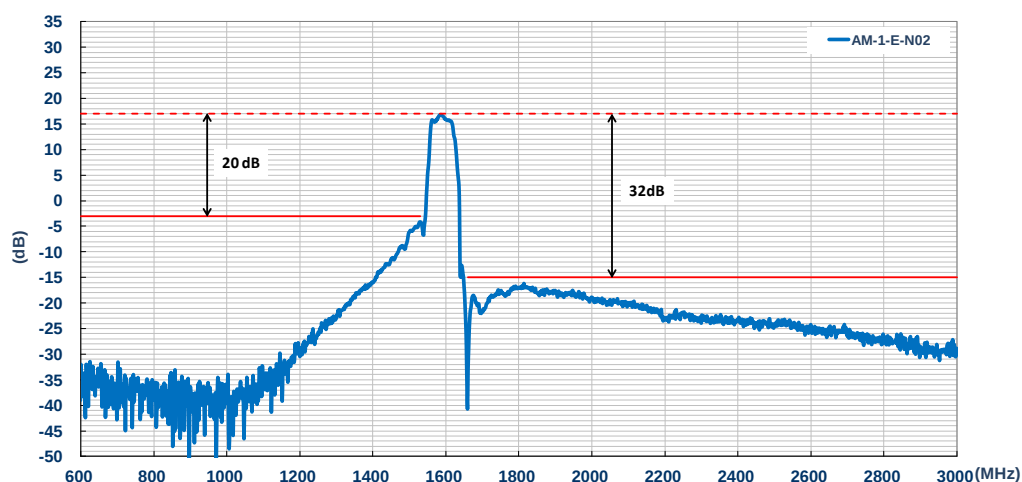


Noise Figure & Gain (dB)



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Out of Band Rejection (dB)



III. Mechanical Drawing (Unit:mm):

Dimensional tolerance ± 0.3

