



Product Name: Embedded GPS Antenna Module

Part Number: AM-3-A-G01

Feature:

- Miniature Form Factor
- Great Out of Band Rejection, Up to 45dB
- 21dB Peak Gain

Application:

- Car Navigation
- Portable GPS Tracking
- Security Surveillance

Embedded GPS Antenna Module

MODEL: AM-3-A-G01

WI-RD-D-242 V1.0

I. Specifications:

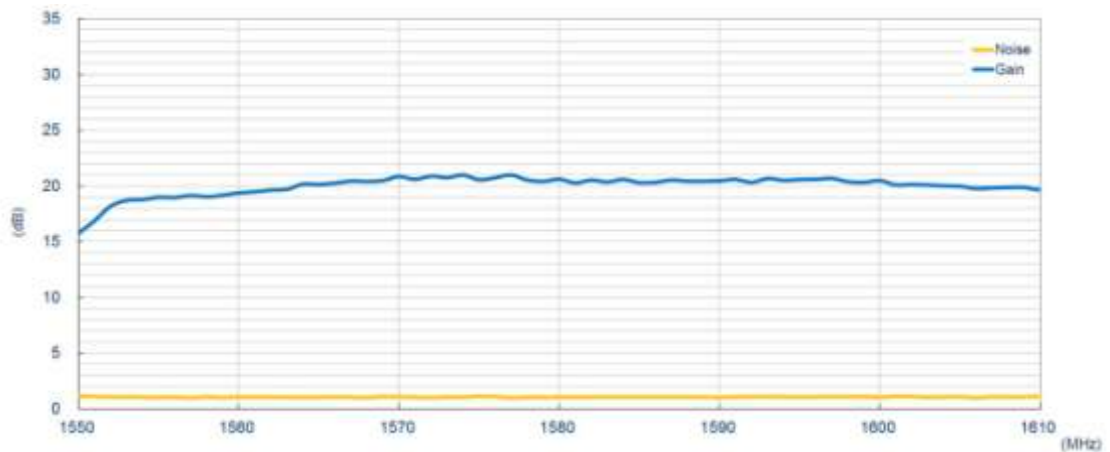
Category	GPS	
Passive antenna performance		
Frequency (MHz)	1575.42	
Efficiency(%)	24.83	
Average Gain(dBi)	-6.05	
Peak Gain(dBi)	-0.92	
Active antenna performance		
Frequency(MHz)	1575.42±1.023MHz	
Gain(dB)	21	
Noise(dB)	1.13	
Current Consumption	4.27mA±2	
Output Impedance	50Ω	
GNSS_Out of Band Rejection		
Frequency(MHz)	600~1450	1680~3000
Gain(dB)	40	45
Dimension	12mm (L) x 12mm (W) x 6.4mm (H)	
ESD Protection	±8 KV (direct discharge) ±15kV (air discharge)	
Polarization	Linear	
Operation Temperature	-40~85℃	
Storage Temperature	-40~85℃	

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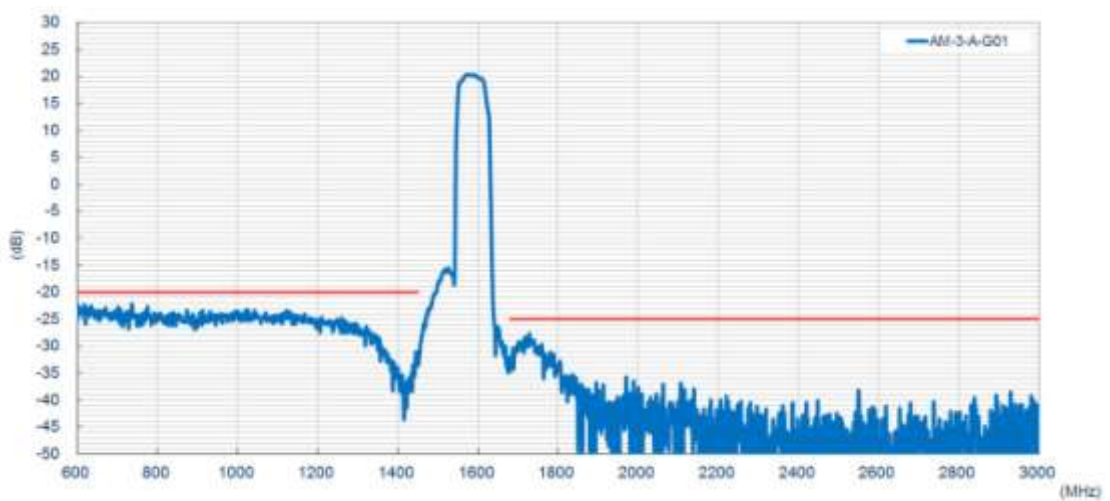
II. Antenna Technical Parameters:

- Active antenna performace

GNSS_Noise & gain:

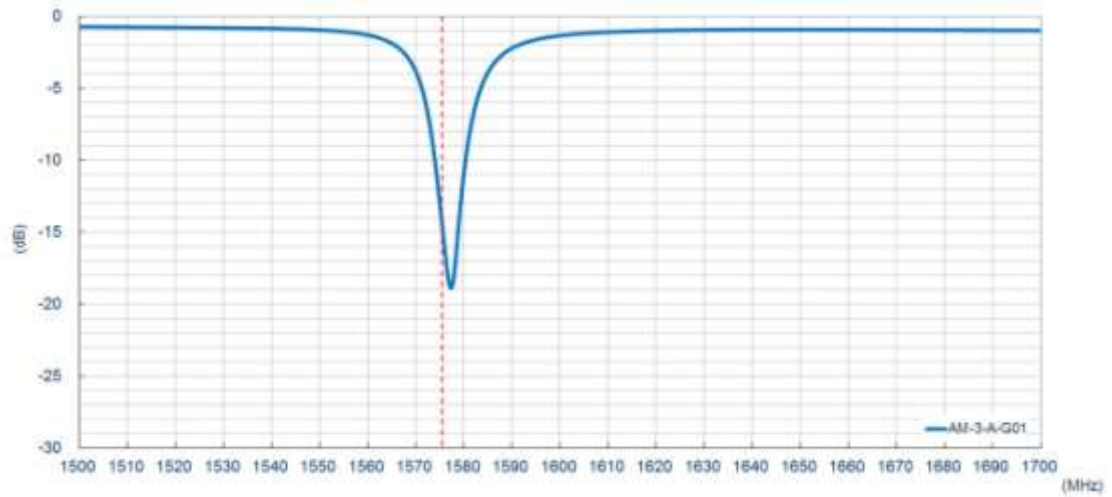


GNSS_outband rejection:

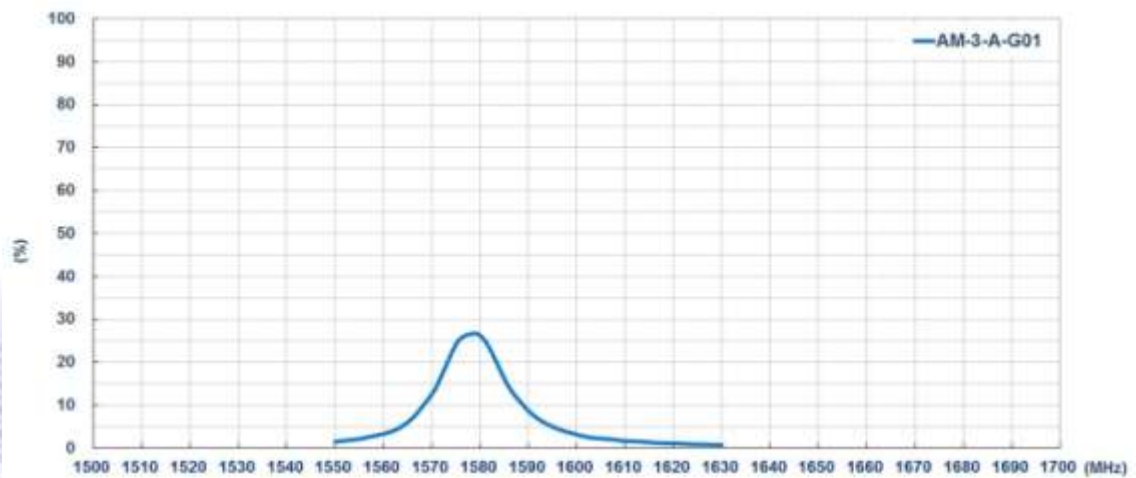


- passive antenna performace

S-parameters:

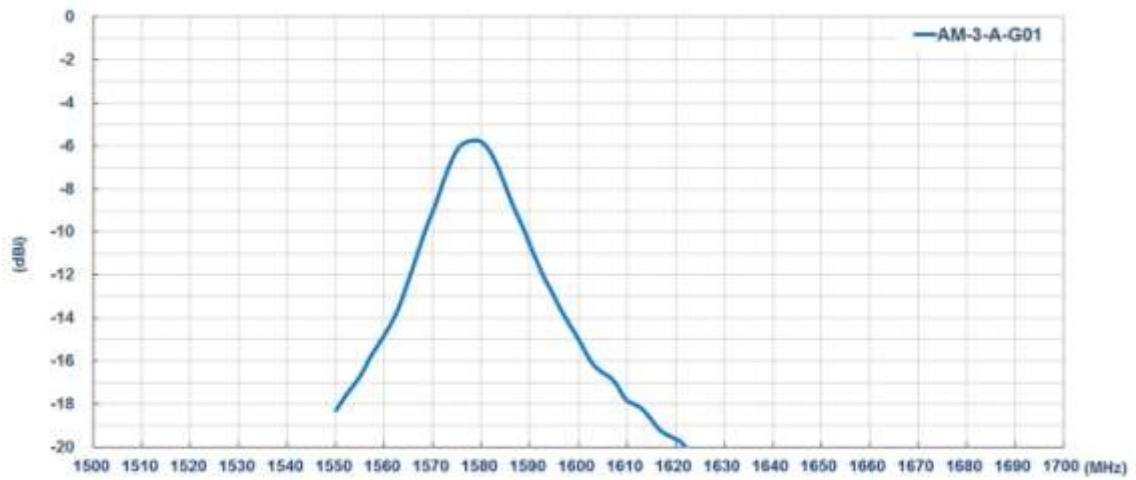


Efficiency:

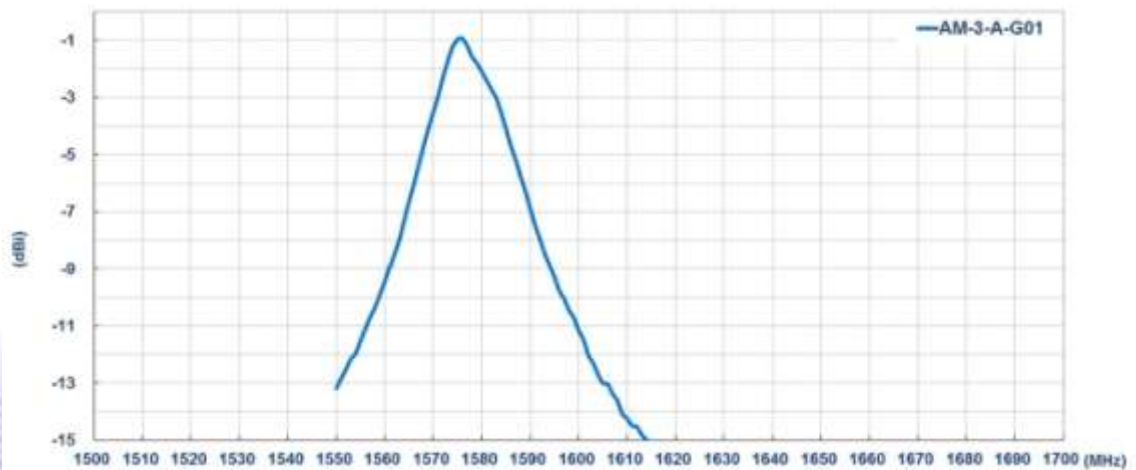


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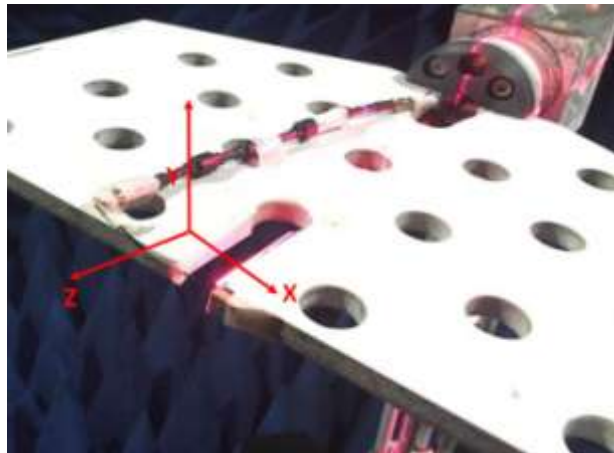
Average Gain:



Peak Gain:

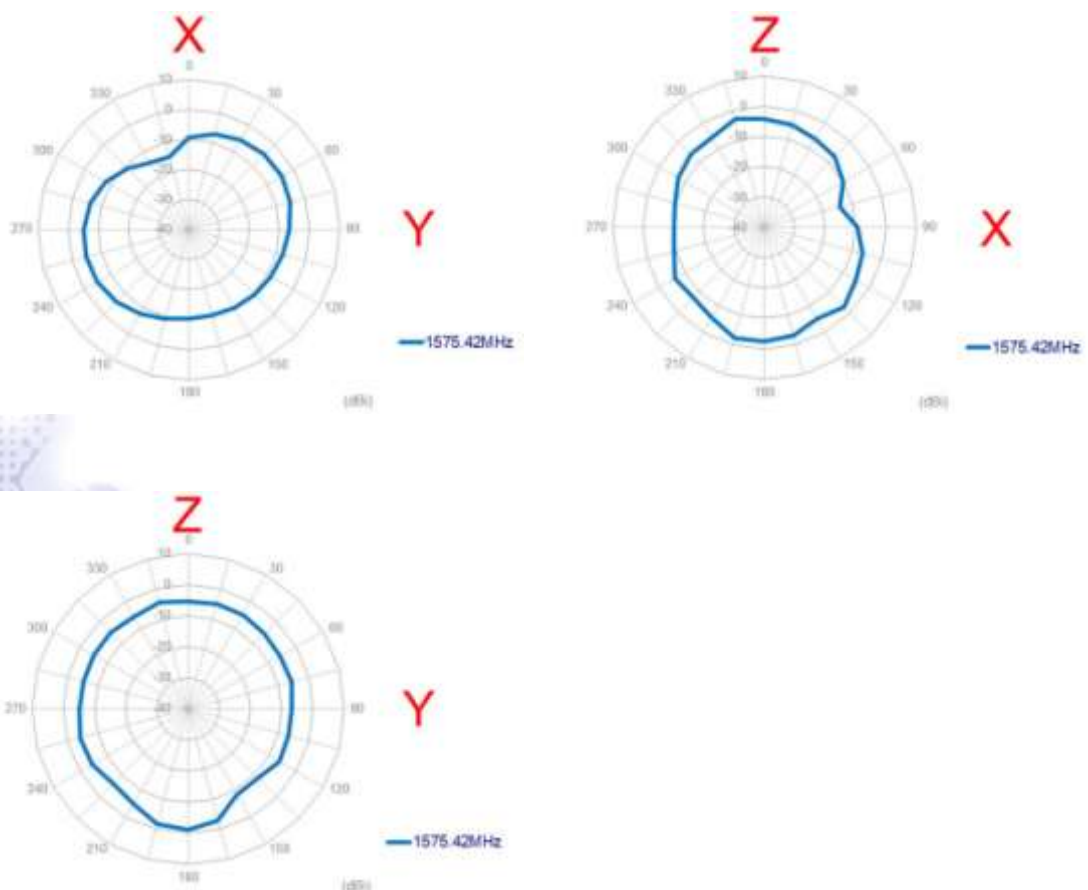


III. Antenna Radiation Pattern Measurement:

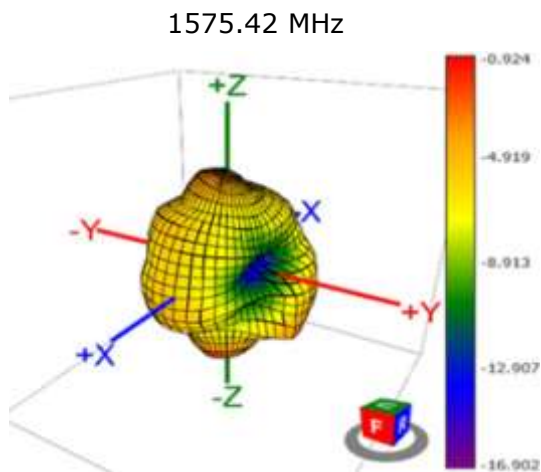


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2D Radiation Pattern



3D Radiation Pattern



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IV. Mechanical Drawing (Unit:mm):

