

Description

The MEA-1227-MM is a multi-frequency, high accuracy, GNSS antenna for the GPS & GLONASS L1 and L2 bands. The antenna's excellent radiation pattern, exceptional out-of-band rejection, and low noise figure ensures optimal performance of GNSS systems. It features a 3 m cable with an integrated SMA, SMB, or MCX connector (customer choice). Our low profile magnetic mount is ideal for robotics, rail, UAV, industrial and IOT applications.

This antenna offers a ultra-low profile design with easy mounting and customizable cables and connector options. The MEA-1227-MM is IP67 rated.



## **Electrical Specification**

Parameter	Specification	
Frequency Range	1227 MHz, 1246 MHz	1561.09, 1575.42, 1602.00 MHz
Bands	L2	L1
Bandwidth	1175MHz – 1260MHz	1561-1606 MHz
Return Loss	-17.1 dB	-16.2 dB
VSWR	1.5:1	1.7:1
Passive Peak Gain	4.9 dBi	4.4 dBi
Impendance	50 Ω	
Radiation Pattern	Hemispherical	
Axial Ratio	≤ 3 dB	
Polarization	RHCP	
Voltage Range	1.5 - 6 V	
Active Gain	28dB @ 3V	
Noise Figure	1.6 @ 3V	
Current Consumption	16 mA @ 3V	
Power Consumption	48 mW @ 3V	
Saw Filter Type	Pre-Filter	
Out of Band Rejection	40 dB	
ESD Protection	2 kV	

## **Features**

- GPS/GLONASS L1 & L2 frequency coverage
- Superb out of band rejection
- · Outstanding filtering
- · High Precision
- Easy mounting: Magnetic Mount
- Low Profile Ø 54 × 21.5 mm
- Ground Plane Independent
- Customizable Cable and Connector
- Dimensions Ø 54 × 21.5 mm
- IP67, IP69

## **Applications**

- · Vehicle and fleet tracking
- Military & security
- Asset tracking
- · Embedded applications
- · Navigation devices
- · Oil & gas industries
- Mining equipment
- LBS & M2M applications
- Law enforcement



## **Mechanical Specification**

Parameter	Specification	
Antenna Dimensions	Ø 54 × 21.5 mm	
Operating Temperature	-40°C to + 85°C	
Mounting Type	Magnetic Mount	
Connector	SMA-Male	
Cable	LL100 Standard	
Radome	ASA UV Stable / White, Black	
Substance Compliance	RoHS	
Certificates	IP67, IP69	

\*Mounted on Ground Plane of 30 x 30 cm













