

Part #: 189-00062-01



The MEA-1227-SM Screw Mount Antenna is a GNSS/L1L2 low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-1227-SM covers all GPS/GLO/BEI/QZSS/Galileo/SBAS/L1L2 standard frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications. The high performance and low profile make this antenna ideal for the most challenging installations. This screw mount antenna is easy to install with maximum durability offering IP67 rated housing and anti-rotation mounting. The MEA-1227-SM has a one cable with a SMA-Male standard connectors, 3m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types.



Parameter	Specification	
Frequency Range	1215-1237 MHz	1561-1606 MHz
Bands	L2	L1
Bandwidth	22 MHz	45 MHz
Return Loss	-20.7 dB	-9.9 dB
VSWR	1.2:1	2.3:1
Efficiency	63.8%	63.8%
Passive Peak Gain	3.4 dBi	5.3 dBi
Average Gain	-1.9 dB	-2 dB
Impedance	50 Ω	
Radiation Pattern	Hemispherical	
Axial Ratio	≤ 3dB	
Polarization	RHCP	
Voltage Range	2.3 – 6 V	
Active Gain	28 dB @ 3V	
Noise Figure	1.6 dB @ 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/GLO/BEI/QZSS/Galileo/SBAS/L1L2 Frequency bands
- Pre-Filter
- Low Noise Figure
- Low Power Consumption
- Customizable Cable and Connector
- Dimension 80 x 74 x 25.6 mm
- Anti-Rotation Mechanism
- IP67, IP69

## **Applications**

- · Precision navigation
- Precision timing
- Military & security
- Asset tracking
- · Oil & gas industries
- · Navigation devices
- Mining equipment
- LBS & M2M applications
- · Handheld devices
- Law enforcement



## **Mechanical Specification**

Parameter	Specification
Antenna Dimensions	80 x 74 x 25.6 mm
Mounting Type	Screw Mount
Operating Temperature	-40°C to 85°C
Connector	SMA-Male Standard
Cable Type	LL100 Standard
Radome	ABS/ASA UV Stable
Radome Color	Black, White
Substance Compliance	RoHS
Certificates	IP67, IP69

<sup>\*</sup>Mounted on Ground Plane of 30 x 30 cm









