

Low-Profile High Performance GPS L1 Through-Hole Mount Antennas



The Max-Matics™ Shield Permanent mount antennas are designed for fleet management and asset tracking applications requiring a low-profile and compact footprint while supporting precision GPS operation. This antenna platform offers two high gain antenna options and outstanding out-of-band rejection performance for ideal RF system interoperability when installed along other RF radiators.

Features

- Industry leading out-of-band rejection performance
- Rugged, low-profile housing for minimum visibility
- ESD protection
- 26 dB or high gain 35dB gain options
- Permanent through hole design with slotted jam nut for installation ease



3226MSMA

STANDARD CONFIGURATION

Model	Cable	Connector	Mount
3226MSMA	17 ft RG-174	Male SMA plug	Through-hole for 1-inch diameter mounting holes Metal thread length: approximately 1/2" (12mm) Accommodates surface thickness up to 1/4" (6mm) (all models)
3235MSMA	17 ft RG-174	Male SMA plug	

ELECTRICAL SPECIFICATIONS - GPS ANTENNA

Model	Frequency Band	LNA Gain	Element Gain	Polarization	Out of Band Rejection	DC Current
3226MSMA	1575.42 MHz (GPS L1)	+3.5 dBiC Nominal	26 dB +/-3	Right hand circular	> 40 dB @ +/-50 MHz	20 mA Nominal < 30 mA @ -40°C to +85°C
3235MSMA	1575.42 MHz (GPS L1)	4 dBiC Nominal	34 dB +/-4	Right hand circular	> 40 dB @ +/-50 MHz	20 mA Nominal < 30 mA @ -40°C to +85°C

ELECTRICAL SPECIFICATIONS - GPS ANTENNA (BOTH MODELS)

DC Voltage	Noise Figure	VSWR	Nominal Impedance	Axial Ratio	Filtering
3 - 13.5 V	1.8 typical	1.5:1 typical	50 ohms	<3 dB @ boresight	Hybrid (including pre-selector)

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

Dimensions	Weight (Mass)	Housing Material	Temperature Range	Humidity	Mechanical Shock	Fluid Shower	Ingress Protection
2.5 OD x 0.5 D in (63.5 x 12.7 mm)	25 grams	Black, UV-stable plastic	-40°C to +85°C (operating)	95%	25 g maximum	Water, salt mist, windshield wiper fluid Detergent with wax: no degradation	IP56