



## Technical Data

Polarization: Right hand circular
Input Impedance: 50 ohms
VSWR: 1.5:1 typical
Axial Ratio: <3 dB @ boresight
Radome Color: Black
RF Cable: 17 ft RG-174
Mount Method: Through-hole for 1-inch diameter mounting holes Metal thread length: approximately 1/2" (12mm) Accommodates surface thickness up to 1/4" (6mm)
Ingress Protection: IP56

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

These GPS vehicle tracking antennas feature light, low profile housings that are highly adaptable for vehicle tracking or marine navigation applications. Their radome is molded from high grade polymer resin for UV and abrasion maximum resistance under severe environmental conditions. These antennas utilize an electrically shielded LNA PCB assembly and ceramic filter designed to provide high out-of-band rejection for optimal integration in multi-band installations.

### Low Noise Amplifier Specifications

Model	Frequency Band	Amplifier Gain	Nominal Impedance	Output VSWR
3226MSMA	1575.42 MHz (GPS L1)	26 dB +/-3	50 ohms	1.5:1 typical
3235MSMA	1575.42 MHz (GPS L1)	34 dB +/-4	50 ohms	1.5:1 typical

Model	DC Current	DC Voltage	Noise Figure	Filtering	Out-of-Band Rejection
3226MSMA	20 mA Nominal < 30 mA @ -40°C to +85°C	3 - 13.5 V	1.8 typical	Hybrid (including pre-selector)	> 40 dB @ +/-50 MHz
3235MSMA	20 mA Nominal < 30 mA @ -40°C to +85°C	3 - 13.5 V	1.8 typical	Hybrid (including pre-selector)	> 40 dB @ +/-50 MHz

### Antenna Electrical Specifications

Model	Frequency	Gain
3226MSMA	1575.42 MHz (GPS L1)	+3.5 dBiC Nominal
3235MSMA	1575.42 MHz (GPS L1)	4 dBiC Nominal

### Mechanical Specifications

Model	Dimensions	Weight (Mass)	Connector
3226MSMA	2.5" OD x 0.5" D	25 grams	Male SMA plug
3235MSMA	2.5" OD x 0.5" D	25 grams	Male SMA plug

### Environmental Specifications

Temperature Range	Humidity	Mechanical Shock	Fluid Shower
-40°C to +85°C (operating)	95%	25 g maximum	Water, salt mist, windshield wiper fluid Detergent with wax: no degradation

For other connector options, please refer to GPS Mobile Antenna Configurator Part Number Guide