

## Multiple Mount GPS L1 GPS Antenna

The AGPS26 global positioning system (GPS) antenna features an electrically shielded LNA PCB assembly that is permanently encased in a UV-stable, black radome. Providing 26 dB of gain and 3 to 5 Vdc operation, this active GPS antenna provides outstanding GPS support for many vehicle tracking applications. This magnetic mount antenna can be ordered with additional screw or tape mount hardware for maximum installation flexibility.



### Features

- Rugged, low profile housing for minimum visibility
- Various mount options for maximum versatility. Magnetic mount standard. Screw or tape mount hardware optional.
- Wide variety of connector options provide greater flexibility and compatibility with most GPS systems

### Filter/LNA Antenna Electrical Specifications

Operating Frequency	Noise Figure:	Gain	Out-of-Band Attenuation
L1: 1575.42 +/- 1.023 MHz	1.8 dB typical 2.2 dB maximum	26 dB	fo=1575.42 MHz fo +/-20 MHz, 7 dB typical fo +/-50 MHz, 20 dB typical fo +/-100 MHz, 30 dB typical

### Antenna Patch Electrical Specifications

Center Frequency	Gain typical at zenith	Bandwidth	Axial Ratio
1575.42 +/-3 MHz (when covered with a radome and measured on a 2.75 x 2.75 inch ground plane)	+5.0 dBic (-1.0 dBic minimum at 10° elevation)	10 MHz minimum (10 dB return loss)	3.0 dB typical

### Mechanical Specifications

Dimensions	Weight (Mass)
2" x 1.77" x .55"	4.09 +/-0.35 oz

### Environmental Specifications

Operating Condition	Storage Condition
-40°C to +85°C temperature 10 to 95% RH humidity	-40°C to +85°C temperature 10 to 95% RH humidity

\* To select mount preference, add the corresponding suffix to the AGPS series part number. Example: AGPS26MM indicates a magnetic base

\*\* Please specify connector preference when ordering.



### Technical Data

<b>Polarization:</b> Right hand circular
<b>Input Impedance:</b> 50 ohms
<b>VSWR:</b> < 2.0:1, maximum (Filter/LNA)
<b>Operating Supply Voltage:</b> 3-5 Vdc: 50 mV p-p ripple (max)
<b>Current Consumption:</b> 20 mA, maximum at 3-5 Vdc (9 mA typical)
<b>Housing:</b> Black, UV-stable plastic
<b>Cable:</b> 17 feet RG-174/U
<b>Connectors Options**:</b> MSMA or Right Angle SMB Plug standard TNC, BNC, FFME, MMCX, SMC also available
<b>Cable Pull Force:</b> 10 lbs, minimum
<b>Magnet Pull Force:</b> 5 lbs, minimum
<b>Mount Method:</b> Magnet (MM suffix) or adhesive tape (TM)