

## High Performance GPS Magnetic Mount Series **NEW!**

The AGPSHP magnetic mount global positioning system (GPS) 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. Their assembly is permanently encased in a compact, UV-stable radome, making it ideal for concealed vehicle tracking applications. They can also be ordered with optional tape mount hardware for maximum installation flexibility.

### Features

- Preselection filter for outstanding interference rejection
- Rugged, low profile housing for minimum visibility
- Two gain options for GPS system adaptability
- ESD/Reverse Polarity/Transit voltage protection
- Tape mount option for maximum installation flexibility

### Antenna Electrical Specifications (Patch)

Model	Center Frequency	Polarization	Nominal Impedance	VSWR	Gain at Zenith	Axial Ratio
AGPSHP35MM	1575.42 MHz (GPS L1)	Right hand circular	50 ohms	1.5:1 typical	4 dBiC Nominal	3.0 dB typical
AGPSHP16MM	1575.42 MHz (GPS L1)	Right hand circular	50 ohms	1.5:1 typical	4 dBiC Nominal	3.0 dB typical

### Mechanical Specifications (both models)

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

### Environmental Specifications (both models)

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



AGPSHP Magnetic Mount Series

**MAXRAD**

### Electrical Specifications (Filter/LNA)

<b>Housing:</b> Black, UV-stable plastic
<b>Amplifier Gain without Antenna Element and Cable:</b> 35 dB +/-4 (AGPSHP35MM) 16 dB +/-3 (AGPSHP16MM)
<b>Noise Figure (25°):</b> 1.8 typical
<b>Voltage:</b> 3-5.5 V (internal regulated)
<b>DC Current @ 5 Volts:</b> 20 mA Nominal < 30 mA @ -40°C to +85°C (AGPSHP35MM)  20 mA maximum, 5 Vdc, 12 mA typical (AGPSHP16MM)
<b>Filtering:</b> Hybrid (including pre-selector)
<b>Out-of-Band Signal Rejection:</b> -40 dB @ +/-50 MHz typical (AGPSHP35MM) -20 dB @ +/- 50 MHz typical (AGPSHP16MM)
<b>Cable Pull Force:</b> 10 lbf, minimum
<b>Magnet Pull Force:</b> 5 lbf, minimum
<b>Cable:</b> 17 ft RG-174/U
<b>Connector:</b> Male SMA (attached) standard
<b>Mounting Method:</b> 2 built-in rare earth Nd magnets