Data Sheet



GPS Antenna L1 (Low Profile, active GPS, outdoor mount, waterproof)

Description

The GPS L1 antennas are ideally suited for exterior installations on roofs or mounting poles as well as mounting brackets.

Available in 2 models: Low Gain (-L) & High Gain (-H)

These antennas contain large selective patch antennas and an RF band pass filter that attenuates cellular and radar frequency ranges in order to minimize interferences and blocking effects.

The GPS antennas are available in a variety of colours.

Excellent performance as part of an GPS-over-Fiber solution.

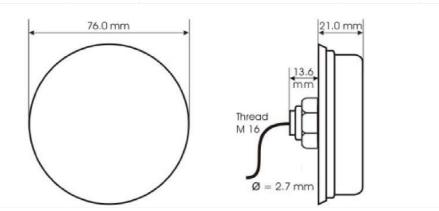
Order Information

| Item Description | Item Number |
|--------------------|-------------|
| GPS Antenna L1 – L | 85073713 |
| GPS Antenna L1 - H | 85073712 |

Specification

| Parameters | | Value | | Remarks | |
|---|---------------------------------|-------|---------|---------|------------------------------------|
| | | Min. | Тур. | Max. | |
| All specifications at 25°C case Temperature | Tc , unless otherwise specified | | | | |
| Centre frequency | MHz | | 1575.42 | | 1565 – 1613 MHz |
| Return Loss | dB | | 1.5 | | 0.6m cable on 30x30cm ground plane |
| Low Gain Model (-L) | | | | | |
| Peak gain | dBi | | 20 | | 0.6m cable on 30x30cm ground plane |
| Power Supply | VDC | | 3-5 | | 12 mA |
| High Gain Model (-H) | | | | | |
| Peak gain | dBi | | 25 | | 0.6m cable on 30x30cm ground plane |
| Power Supply | VDC | | 3-5 | | 25 mA |
| Mechanical Data | | | | | |
| Dimensions | mm | | 76x21 | | |
| Cable length | m | | 1 | | RG174 |
| Connector | | | SMA | | |
| Temperature Range | °C | -40 | | +85 | |
| Waterproof | IP | | 69 | | When installed with mounting stud. |
| Colour | | | Black | | Other colours possible. |

Dimensions Drawing



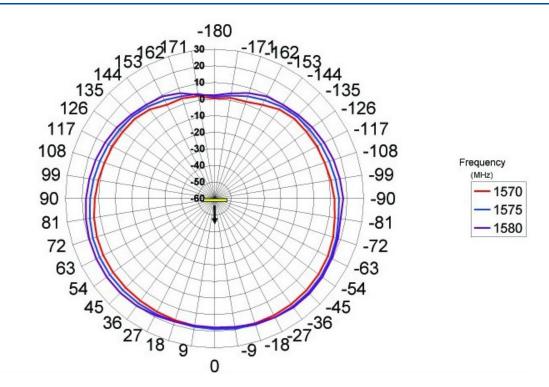




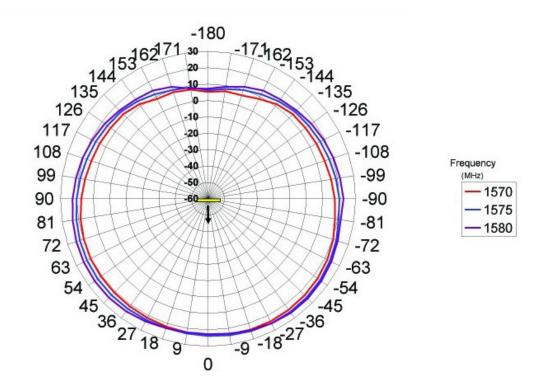


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Antenna Radiation Pattern (-L)



Antenna Radiation Pattern (-H)

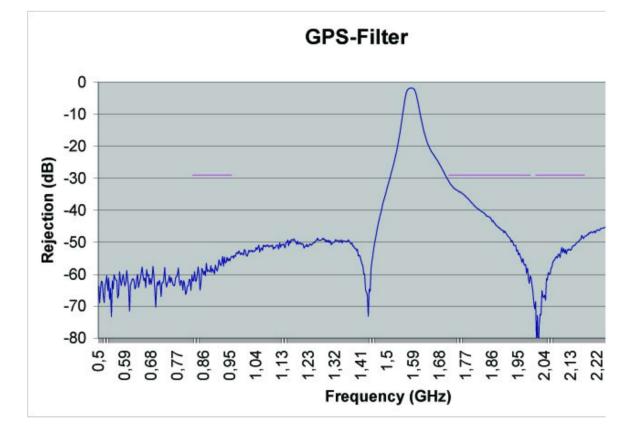


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Band pass characteristics



Installation instructions

- no extra ground plane required (ground plane inside).
- mountable on all clean, smooth and rust-free / rust-protected surfaces.
- mounting torque for M16 nut is 4Nm (min), 6Nm (max).
- mounting hole diameter 16mm (+2mm, 0mm).
- If mounted on a stand or support the cable entry must to be waterproofed.

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 und IRIS

Waiver: It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

Mouser Electronics

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GPS Antenna L1 - H GPS Antenna L1 - L GPS Antenna L1 + L2