



### PRODUCT DESCRIPTION/TITLE

The Laird GPSU1575P or Mini GPS is a rugged, high performance, and cost effective solution for most GPS or asset tracking applications. The small form factor makes it easy to install on or in vehicles or buildings. It is designed to withstand impact as well as water and dust intrusion (IP67 rated). The antenna can be configured with different cable types, in varying lengths and with various connector types.

Laird has a full line of high performance, cost effective GPS antennas for any telematics or GPS application.

### FEATURES AND BENEFITS

- High performance in a small form factor
- IP67 rated for use in highly demanding environments and operating conditions
- Rugged impact resistant housing
- Various connector options

### MARKETS

- Fleet and logistics management
- General automotive aftermarket
- Highway construction
- Land Surveying and management
- Asset visibility and tracking
- Warehouse management

### SPECIFICATIONS

|                            |                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------|
| Frequency Center           | 1575.42 MHz +/-3 MHz                                                                   |
| Gain                       | 28 dBi Typical 32dB (Max)                                                              |
| Polarization               | RHCP                                                                                   |
| Output Impedance           | 50 Ohms                                                                                |
| VSWR                       | 2.0:1                                                                                  |
| Input Power                | -30 dBm                                                                                |
| Noise Figure               | 1.5 dB Max (@2.5~5 Vdc, 1575.42 MHz)                                                   |
| Supply Voltage             | 2.5 ~ 5 Vdc                                                                            |
| Current Max                | 15 mA                                                                                  |
| Diameter                   | 1.91"x0.67"                                                                            |
| Radome Material            | Lexan PC Impact UV Stabilized                                                          |
| Operating Temperature      | -35°C to +75°C                                                                         |
| Ingress Protection         | IP - 67                                                                                |
| Mounting method            | Aluminum Stud & Base M12 X 1.5 Thread, stainless steel Lock Washer and Heavy Duty Nut. |
| Bandwidth                  | ±2.0 [1573.42 – 1577.42 MHz]                                                           |
| Intersection Loss BW       | 3.5 dB Max                                                                             |
| Attenuation Absolute Value | 45 dB min. @ 1475.42 MHz<br>25 dB min. @ 1525.42 MHz<br>18 dB min. @ 1625.42 MHz       |

Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

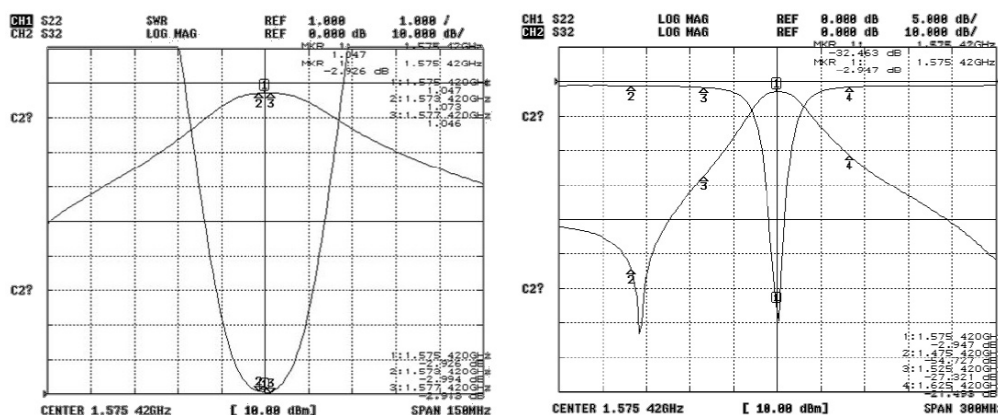
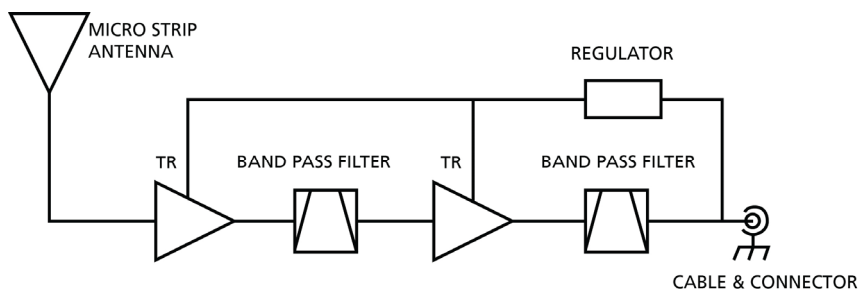
Europe: +44.1628.858941  
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

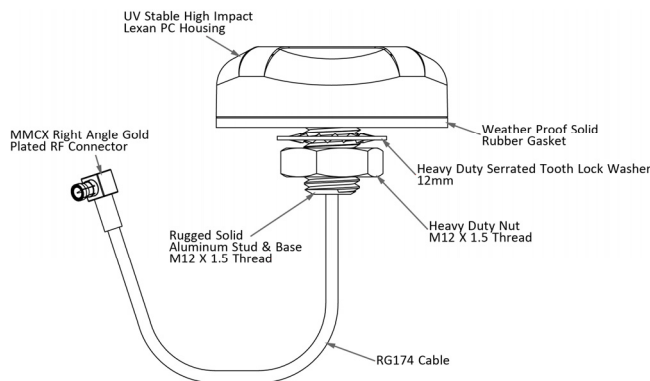
# Asset Tracking External Antenna

## Mini GPS



### ORDERING INFORMATION

|                   |                             |
|-------------------|-----------------------------|
| GPS1575SP26-004   | 80" RG174 w/ RA MMCX        |
| GPS1575SP26-005   | 80" RG174 w/ MCXM           |
| GPS1575SP-300SMAM | 3m RG174 with straight SMAM |



IAS-DS-GPS1575\_060217

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## Laird Connectivity:

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[GPS1575SM-366SMBM](#) [GPS1575SM-762SMBM](#) [GPS1575SP-203SMAM](#) [GPS1575SSSMAM-001](#)  
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