

Asset Tracking External Antenna

1575 MHz|GPS



LOW-COST ANTENNA IS IDEAL IN RUGGED CONDITIONS

Laird Technologies' low-cost GPS antenna is designed to receive GPS broadcast. The GPS magnet mount car antenna specifications are based on a one-meter ground plane. This high-volume, low-cost product meets automotive specifications for durability and quality.

Laird Technologies is a leading supplier of mobile antenna solutions for automotive, asset tracking and consumer electronics industries. Products include cellular antennas (AMPS, GSM/DCS/PCS, UMTS), GPS antennas, entertainment antennas (AM/FM, DAB, DVB-T, Satellite radio, TV), mobile communication antennas (Bluetooth, DSRC, RKE, TPMS, WiFi), satellite communication antennas and battery packs.

Leveraging our experience in M2M wireless modules, Laird Technologies also designs smart antennas integrating functionalities such as cellular, WiFi and Bluetooth® modems, GPS receivers and vehicle networking. All of these capabilities can be further integrated into M2M Devices, that add control electronics and firmware to provide the latest evolution in telematics systems.

FEATURES

- Small footprint - very low profile
- Multiple connectors available
- RG-174 or micro cable available
- Grommet over mold allows for better cable stability
- Rubber splint to route cable directly in edge-of-roof applications
- Label and liner can be modified to meet the needs of the customer
- Magnet mount with rubber feet to ensure no damage to vehicle surface

BENEFITS

- Low total-cost implementation
- Easy installation
- Small package size
- Meets enhanced environmental specifications

APPLICATIONS

- General automotive aftermarket
- Fleet logistics, tracking, and diagnostics
- Theft protection
- Vehicle and asset recovery
- Navigation systems
- Infotainment systems
- On-board computing

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External GPS

ANTENNA SPECIFICATION

Frequency Range	1574.42-1576.42 MHz
Peak Gain	4.0 dBi max @ Boresight
Polarization	RHCP
Impedance	50 Ω
Output VSWR (Min. Performance)	$\leq 2:1$

LNA SPECIFICATION

Gain (Max)	29 dB
Noise Figure	≤ 1.5 dB
Supply Voltage	3.3 \pm 0.3V or 5.0 \pm 0.5V
Current	25 mA
Input P1dB	≥ -27 dBm
Output VSWR	$\leq 2:1$

MECHANICAL SPECIFICATION

Dimension	44 x 36 x 14 mm
Radome Material	Black ASA+PC (Luran S 778T)
Connector	SMA
Cable Length	6000 mm
Cable Type	RG-174
Mounting Method	Magnetic

ENVIRONMENTAL SPECIFICATION

Operating Temperature	-40 C to +85 C
Humidity	Operation 95% RH at 65°C
Ingress Protection	IP-66
Drop Test / Shock	50 g shocks 10x3 axis / 1 meter drop 6 axis
Vibration	10-1000 Hz vibration 1 hour 3 axis

ORDERING INFORMATION

Part Number	637114
Customization available w/MOQ	Cable type, length, connector type



Magnetic Base

TEL-DS-EXTERNAL-GPS 1210

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