Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

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 RoHS

- 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

global solutions: local support™

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www.lairdtech.com

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External GPS

ANTENNA SPECIFICATION	
Frequency Range	1575.42 ± 1.023 MHz
Peak Gain	4.0 dBic max @ Boresight
Polarization	RHCP
Impedance	50 Ω
Output VSRW (Min. Performance)	≤ 2:1

LNA SPECIFICATION	
Gain (Max)	28 ± 3 dB
Noise Figure	≤1.5 dB
Supply Voltage	5 ± 0.5 V
Current	25 mA
Input P1dB	≥-27dBm
Output VSWR	≤ 2:1

MECHANICAL SPECIFICATION	
Dimension	44 x 36 x 14mm
Radome Material	Black ASA (Luran S 778T)
Connector	Fakra 90° SMB Connector
Cable Length	3 m
Cable Type	Micro Coax Cable
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	63727
Customization available w/MOQ	Cable type, length, connector type

Magnetic Base