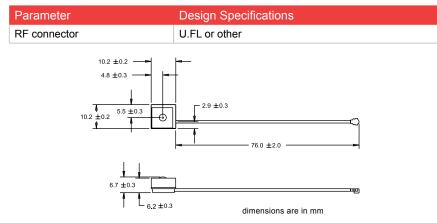


## Description

Our patch antenna offerings are perfect for projects with a smaller scope and budget for which high-performance and lower weight is not a primary factor for consideration for the antenna. They are ideal for less demanding applications where extreme performance and battery life can be sacrificed at the expense of device cost. This antenna is designed for embedded applicationssuch as GPS handheld units, mobile devices, and tracking devices. The interface connector is available in U.FL or other. Cable length can also be customized.

### **Mechanical Specifications**



#### Electrical Specifications 76x76 mm ground plane

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
Antenna element peak gain	2.5 dBic
DC voltage	2.5 to 3.5 V
DC current	9 mA @ 2.5 V / 15 mA @ 3.5 V
Axial ratio	1.5 dB (typical) / 2.5 dB (max)
Bandwidth (-1db)	10 MHz
Total system peak gain	25.5 dB @ 2.5 V / 28.5 dB @ 3.5 V
VSWR	1.3 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C



#### **Features**

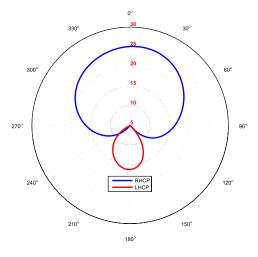
- · GPS L1 frequency
- Active LNA circuitry
- Compact size
- · Custom tuning
- Custom connector/Cable size

#### **Applications**

- · Vehicle and fleet tracking
- · Military & security
- Asset tracking
- · Embedded applications
- Oil & gas industries
- Navigation devices
- · Mining equipment
- · LBS & M2M applications
- · Handheld devices
- · Law enforcement

#### **Realized gain plot**

Measured at 1575.42 MHz on a 76x76 mm ground plane (E plane, 2.5 V)



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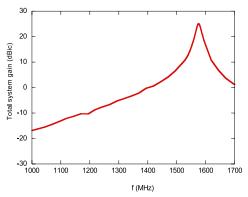
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## LNA network characteristics

Parameter	Design Specifications
Frequency	1575.42 MHz
DC voltage	2.5 to 3.5 V
DC current	9 mA @ 2.5 V / 15 mA @ 3.5 V
Noise figure	1.8 dB (max)
VSWR	1.3 (max)
Gain	23 dB @ 2.5 V / 26 dB @ 3.5 V
Input P1dB	-24 dBm @ 2.5 V / -26 dBm @ 3.5 V

System wide band response @ 2.5 V 76x76 mm ground plane



## Antenna element characteristics

10x10 mm ground plane

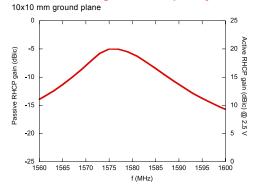
Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
Antenna element gain	-5 dBic
Efficiency	20 %
Bandwidth (-1dB)	5 MHz

#### Antenna element characteristics 76x76 mm ground plane

5	
Parameter	Design Specifications
Frequency	1575 40 MU-

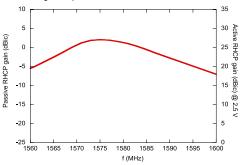
Frequency	1575.42 MHz
Polarization	RHCP
Antenna element gain	2.5 dBic
Efficiency	50%
Bandwidth (-1db)	10 MHz

## Active/Passive gain vs. frequency



## Active/Passive gain vs. frequency

76x76 mm ground plane



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