

18 mm

### **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 applications such as GPS handheld units, mobile devices, and tracking devices. It features a low noise figure and high-linearity LNA. The interface connector is available in U.FL or other. Cable length can also be customized.

#### **Mechanical Specifications**

Parameter	Design Specifications
RF connector	U.FL or other
	5.59 5.03

dimensions are in mm

# **Electrical Specifications**

76x76	mm	ground	plane	

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
Antenna element peak gain	5 dBic
DC voltage	2.5 to 3.5 V
DC current	5 mA @ 2.5 V / 7 mA @ 3.5 V
Axial ratio	1.5 dB (typical) / 2.5 dB (max)
Bandwidth (-1db)	10 MHz
LNA network gain	24 dB @ 2.5 V / 28 dB @ 3.5 V
VSWR	1.3 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C



#### **Features**

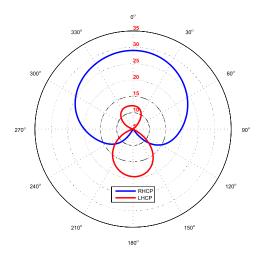
- · GPS L1 frequency
- Active LNA circuitry
- Compact size
- Custom tuning
- Custom connector/Cable size

#### **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)



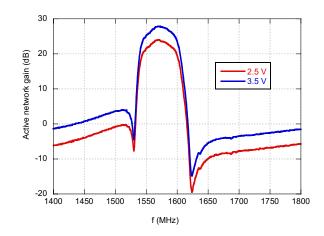
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## Active network characteristics

Parameter	Design Specifications
Frequency	1575.42 MHz
DC voltage	2.5 to 3.5 V
DC current	5 mA @ 2.5 V / 7 mA @ 3.5 V
Noise figure	1.8 dB (max)
VSWR	1.3 (max)
Gain	24 dB @ 2.5 V / 28 dB @ 3.5 V
Input P1dB	-26 dBm @ 2.5 V / -26 dBm @ 3.5 V



# Antenna element characteristics

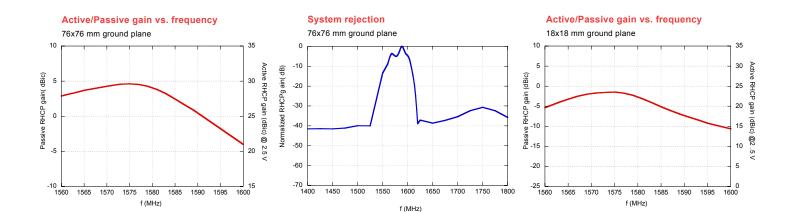
76x76 mm ground plane

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
Antenna element gain	5 dBic
Efficiency	80 %
Bandwidth (-1dB)	15 MHz

## Antenna element characteristics

18x18 mm ground plane

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
Antenna element gain	-1 dBic
Efficiency	60 %
Bandwidth (-1dB)	10 MHz



MAX TENA WIRELESS INNOVATIONS COMPANY

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