

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

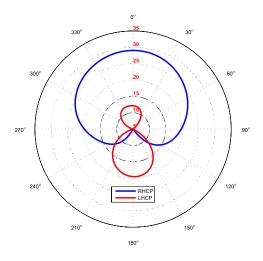
- · GPS L1 frequency
- Active LNA circuitry
- Compact size
- Custom tuning
- Custom connector/Cable size

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)



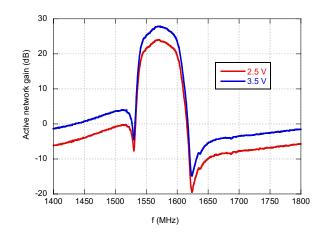
Maxtena Inc. 7361 Calhoun Place, Suite 102 Rockville, MD 20855 1-877-629-8362 info@maxtena.com

www.maxtena.com



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

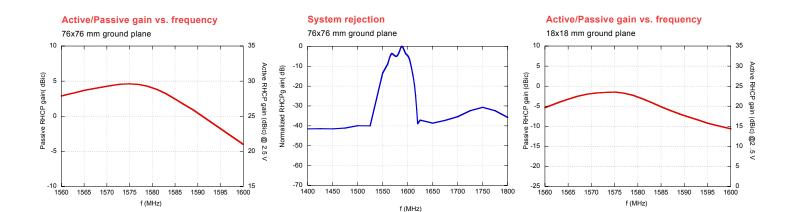
76x76 mm ground plane

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

Maxtena Inc. 7361 Calhoun Place, Suite 102 Rockville, MD 20855 1-877-629-8362 info@maxtena.com

www.maxtena.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Antennas category:

Click to view products by Maxtena manufacturer:

Other Similar products are found below :

 GAN30084EU
 930-033-R
 GW17.07.0250E
 1513563-1
 EXE902SM
 APAMPG-117
 MAF94383
 W3908B0100
 W6102B0100
 YE572113

 30RSMM
 108-00014-50
 66089-2406
 A09-F8NF-M
 A09-F5NF-M
 RGFRA1903041A1T
 W3593B0100
 W3921B0100
 SIMNA-868
 SIMNA

 915
 SIMNA-433
 W1044
 W1049B090
 WTL2449CQ1-FRSMM
 CPL9C
 EXB148BN
 0600-00060
 TRA9020S3PBN-001
 GD5W-28P-NF

 MA9-7N
 GD53-25
 GD5W-21P-NF
 EXB144SM
 C37
 MAF94051
 GD35-17P-NF
 P1744
 MA9-5N
 EXD420PL
 B1322NR
 QWFTB120

 MAF94271
 MAF94300
 GPSMB301
 FG4403
 AO-AGSM-OM54
 5200232
 MIKROE-2349
 WCM.01.0111
 MIKROE-2393
 MIKROE-2352