



The MIA-GPS-18-C is a high gain antenna customized for GPS frequencies. This advanced ceramic patch antenna includes an LNA and front-end SAW filter to reduce out of band noise with IPEX MHFI® (U.FL compatible) connector and 75 mm cable length.

This antenna is designed for embedded applications which feature high performance GPS applications such as GPS handheld units, mobile devices, and tracking devices. The MIA-GPS-18-C utilizes a special semi ceramic based material which leads to higher upper hemisphere efficiency and a lower axial ratio as compared to regular patch antennas. This allows the antenna to be superior and a top choice for demanding GPS multi-band/multi-frequency antenna requirements.

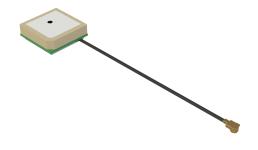
Our patch antenna offerings are perfect for projects with a smaller scope and budget for which high-performance and lower weight is not a primary factor for consideration for the antenna. It features a low noise figure and high-linearity LNA. The interface connector is available in U.FL or other. Cable length can also be customized.

## **Electrical Specification**

Parameter		Specification
Antenna	Frequency Range	1575.42 ± 1.023 MHz
	Gain	0 dBic Typ. @zenith
	Polarization	RHCP
	Axial Ratio	≤ 4 dB @zenith
LNA	Frequency Range	1575.42 ± 1.023 MHz
	Gain	≥ 23 dB; 25 dB typ.
	Noise Figure	≤ 1.5 dB
	Impedance	50Ω
	VSWR	≤ 2.0
Input Voltage		min:2.7 V typ.: 3.0 V max:3.3 V
Current Consumption		≤ 18mA, typ.: 12mA (at 3.0V)

## **Mechanical Specification**

Parameter	Specification
Antenna Dimensions	18 x 18 x 6.5 mm
Antenna Type	Embedded
Operating Temperature	-40°C to 85°C
Connector	I-PEX
Cable Type	RF Coaxial Cable



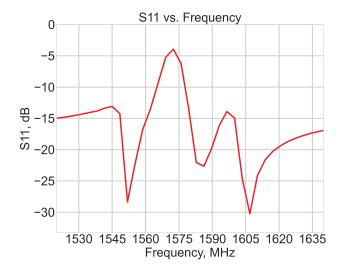
## **Features**

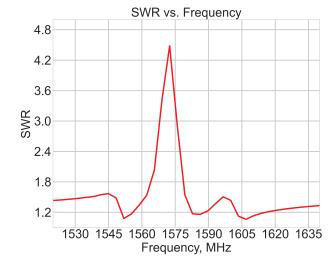
- GPS L1 frequency
- · Active LNA circuitry
- · Compact size
- Custom tuning
- · Custom connector/Cable size
- · Excellent out-of-band signal rejection
- · Ideal antenna solution for RTK systems

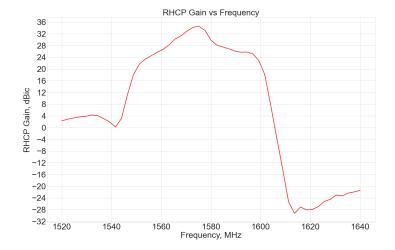
## **Applications**

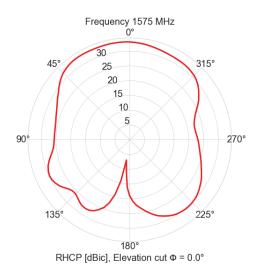
- · Vehicle and fleet tracking
- · Military & security
- Asset tracking
- Embedded applications
- · Oil & gas industries
- · Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices
- · Law enforcement













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