

# Description

The MPA-154-C is a 15 mm ceramic GPS passive patch antenna based on Maxtena technology. 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. This antenna is designed for embedded applications such as GPS handheld units, mobile devices, and tracking devices. It features higher upper hemisphere efficiency and a lower axial ratio as compared to regular patch antennas. The interface connector is mounted through pin solution, and double-sided adhesive.

## **Electrical Specifications**

Parameter	Specification
Range Of Receiving Frequency	1575.42MHz ± 1.023MHz
Center Frequency	1575 MHz
Bandwidth	≥ 19 MHz
Return Loss	-7.5 dB
VSWR	2.4
Gain at Zenith	-1.0 dBic typ.
Axial Ratio	≤ 3 dBi
Polarization	RHCP
Impedance	50 Ω
Radiation Pattern	Hemispherical

#### **Mechanical Specification**

Parameter	Specification
Antenna Dimensions	15.1 x 15.1 x 4.2 mm
Antenna Type	Ceramic patch
Operating Temperature	-40°C to 105°C
Connector	Pin
Mounting type	Embedded
Weight	5 g

\*Mounted on Ground Plane of 72 x 15 mm



#### **Features**

- GPS L1 frequency
- · Adhesive mounting
- Pin-Connector
- · Compact size
- Custom tuning

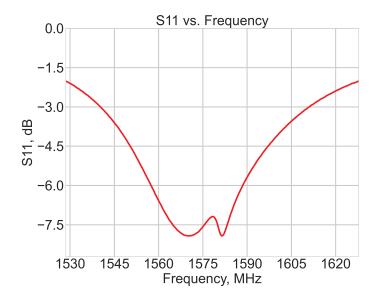
### **Applications**

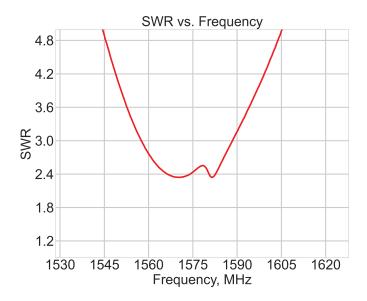
- · Vehicle and fleet tracking
- Military & security
- Asset tracking
- Embedded applications
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- · Handheld devices
- Law enforcement



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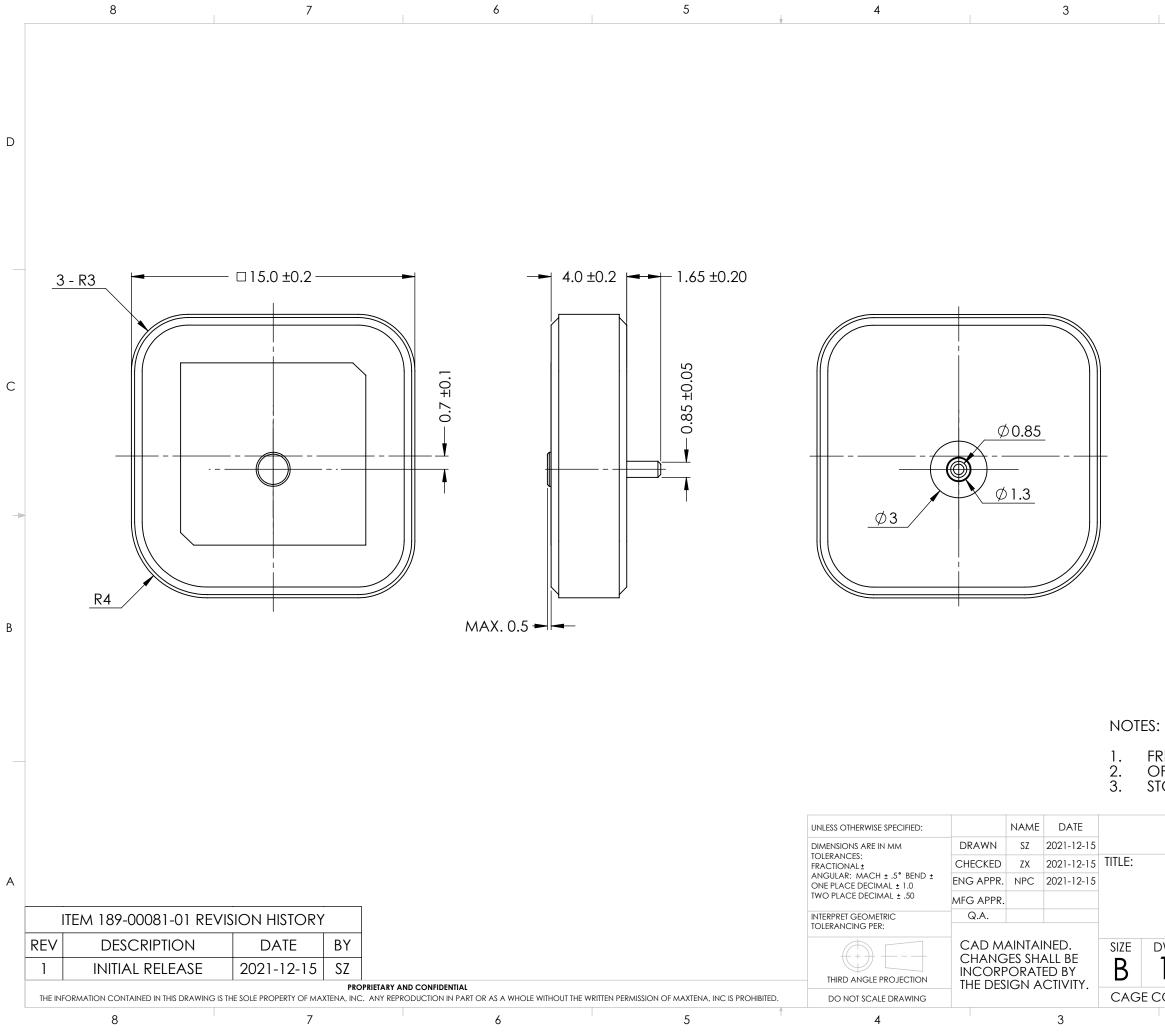






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REQUENCY: 1575 MHz PERATING TEMPERATURE: -40°C ~ +105 IORAGE TEMPERATURE: -40°C ~ +105°C	°C	
MAXTENA, INC		
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