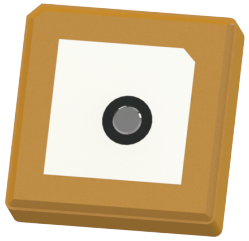
MPA-134-GPS

GLONASS MICROSTRIP ANTENNA

Part #: 189-00056-01



Description

The MPA-134-GPS is a high gain antenna customized for GPS, and GLONASS frequencies. This antenna is designed for embedded applications which feature GNSS such tracking devices and IOT solutions. The MPA-134-GPS 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 GNSS multiband/multifrequency antenna requirements. The MPA-134-GPS ceramic passive antenna is intended for mounting directly on the application PCB with connection via the through-hole pin.

Electrical Specifications

Parameter	Specification
Range Of Receiving Frequency	1595 - 1610 MHz
Center Frequency	1602 MHz
Bandwidth	16 MHz
Return Loss	≤ -10 dB
VSWR	≤ 2
Gain at Zenith	-1.5 dBic typ.
Axial Ratio	5 dBi
Polarization	RHCP
Impedance	50 Ω

Features

- GLONASS frequency
- Easy mounting
- Pin-Connector
- Compact size
- Advanced Ceramic Material
- Ground Plane Dependent
- Dimensions 13 x 13 x 4 mm

Mechanical Specification

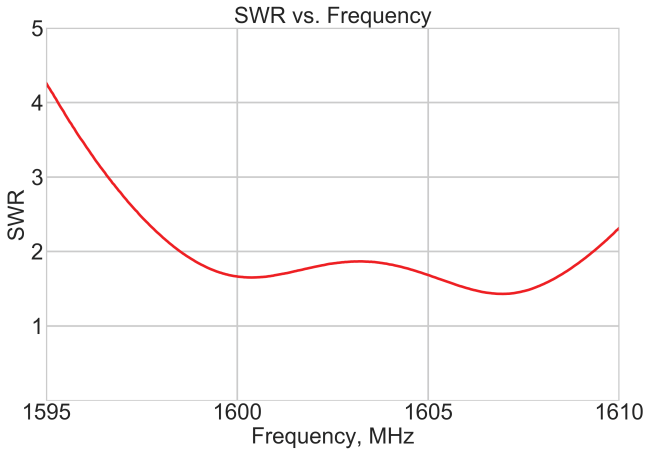
Parameter	Specification
Antenna Dimensions	13 x 13 x 4mm
Materials	Ceramic
Operating Temperature	-40˚C to 105˚C
RF Connector	Pin - Connector
Mounting type	Surface Mount

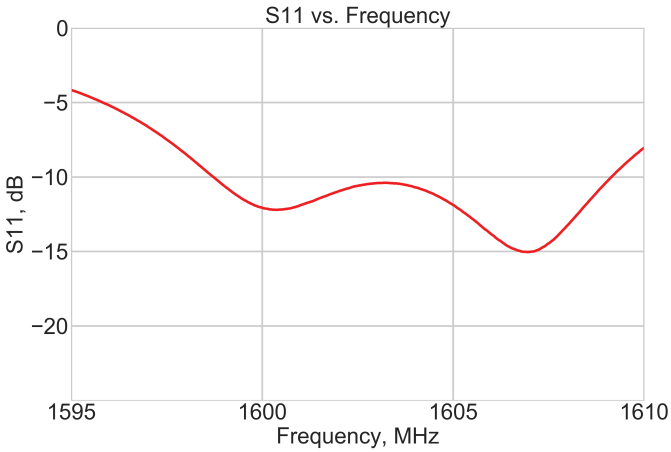
Applications

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

MAXTENA

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





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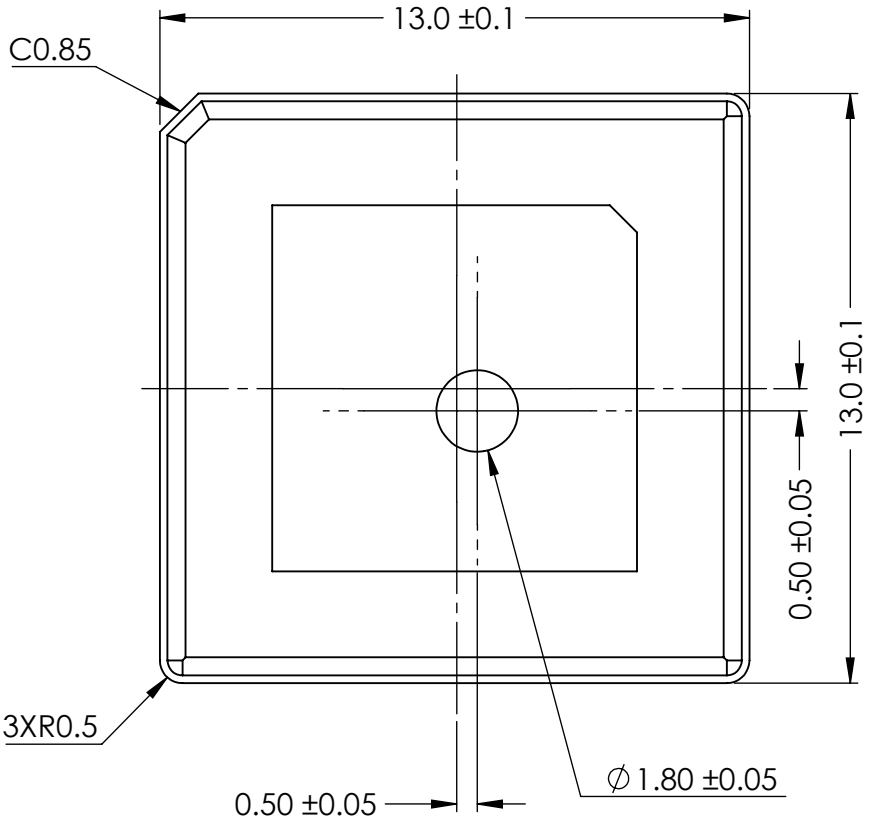

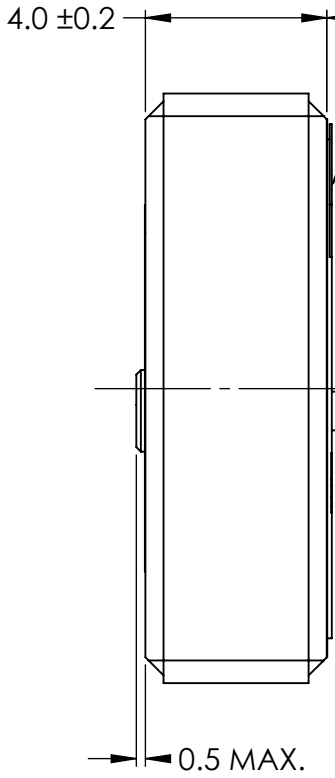

NOTES:

1. CENTER FREQUENCY: 1602MHz (WITH 67.3X69.5MM SQUARE GND PLANE)
2. BANDWIDTH: 16MHz MIN (RETURN LOSS≤-10dB)
3. VSWR: 2 MAX
4. GAIN AT ZENITH: -1.5dBic TYP.
5. AXIAL RATIO: 5 dBi.
6. POLARIZATION: RHCP
7. IMPEDANCE: 50 OHM
8. OPERATING TEMPERATURE:40°C to +105°C
9. DOUBLE-SIDE ADHESIVE ON THIS SURFACE FOR INDUSTRIAL USE.

ITEM 189-00056-01 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-03-03	QZ

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