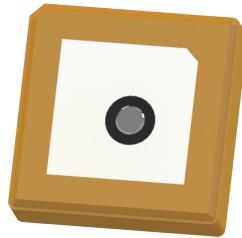




Part #: 189-00056-01



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 dBi typ.
Axial Ratio	5 dBi
Polarization	RHCP
Impedance	50 Ω

Mechanical Specification

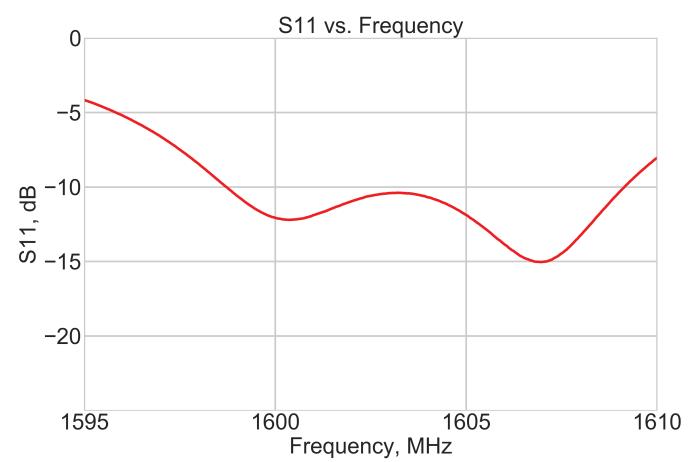
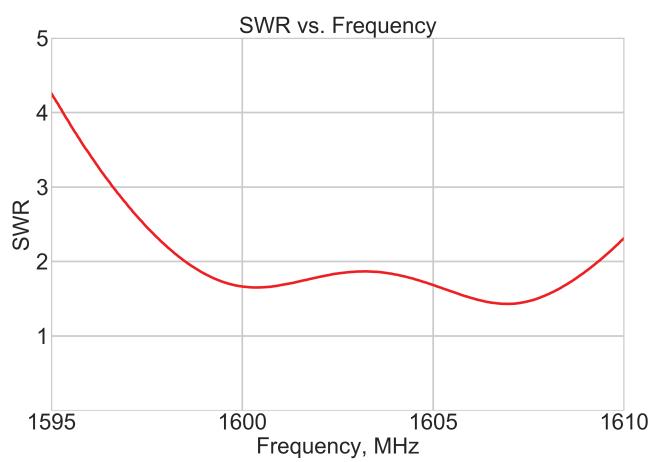
Parameter	Specification
Antenna Dimensions	13 x 13 x 4mm
Materials	Ceramic
Operating Temperature	-40°C to 105°C
RF Connector	Pin - Connector
Mounting type	Surface Mount

Features

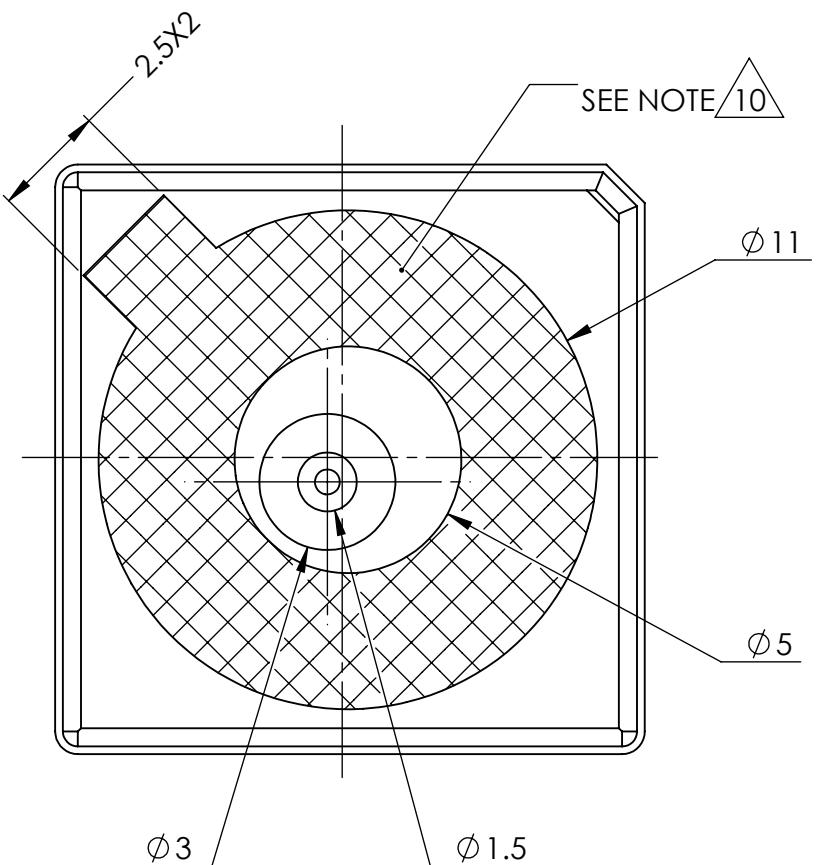
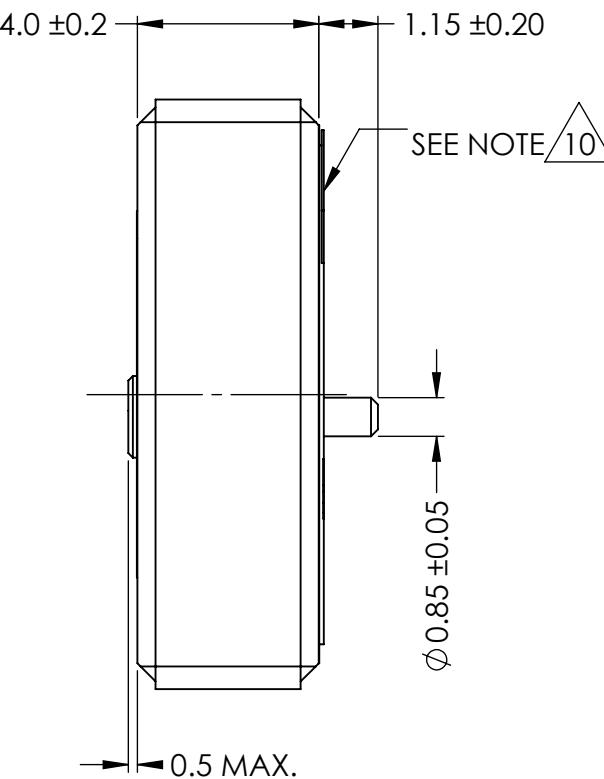
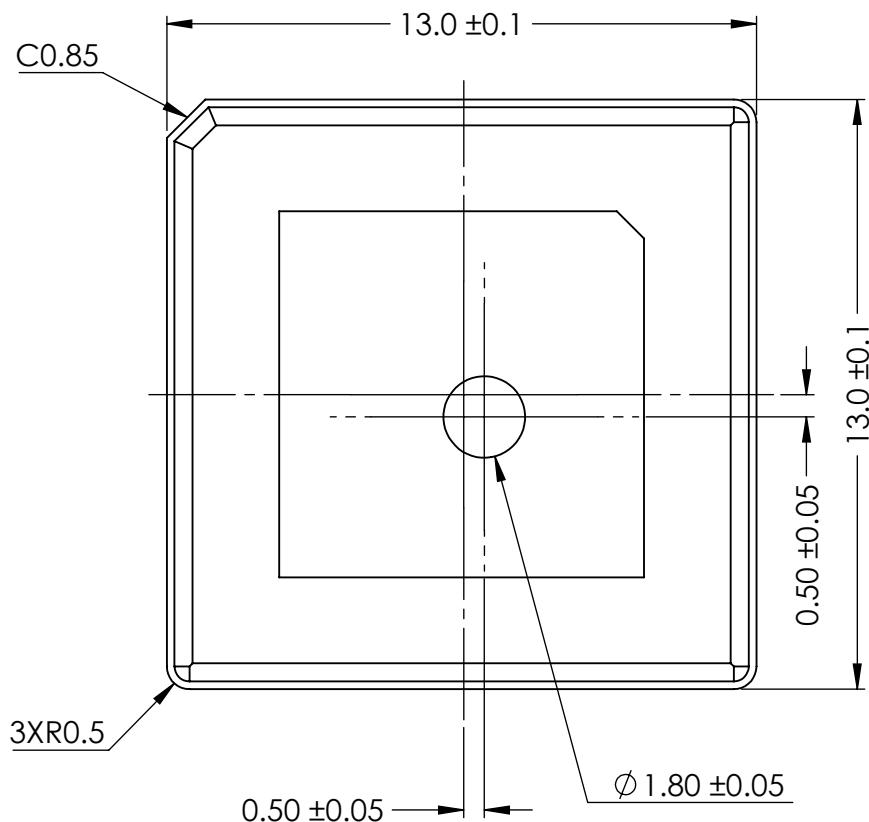
- GLONASS frequency
- Easy mounting
- Pin-Connector
- Compact size
- Advanced Ceramic Material
- Ground Plane Dependent
- Dimensions 13 x 13 x 4 mm

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



DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-03-03	QZ



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: -1.5dBi 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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UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	QZ 2021-03-03
TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± .5° BEND ± INTEGER ± 2	CHECKED	PL 2021-05-21
ONE PLACE DECIMAL ± 1.0	ENG APPR.	NPC 2021-05-27
TWO PLACE DECIMAL ± .50	MFG APPR.	
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.	
THIRD ANGLE PROJECTION		
DO NOT SCALE DRAWING		

CAD MAINTAINED.
CHANGES SHALL BE
INCORPORATED BY
THE DESIGN ACTIVITY.

MAXTENA, INC
189-00056-01
MPA-134

SIZE	DWG. NO.	REV
B	117-00405-01	A
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1

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