

# GPS Dielectric Antenna

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- GPS Dielectric Antenna
- 2.5 dB Gain
- Low V.S.W.R
- Wide temperature range
- High Quality

ADA-18182 is an easy design in ceramic Dielectric GPS Antenna with Silver Electrode Antenna pattern.

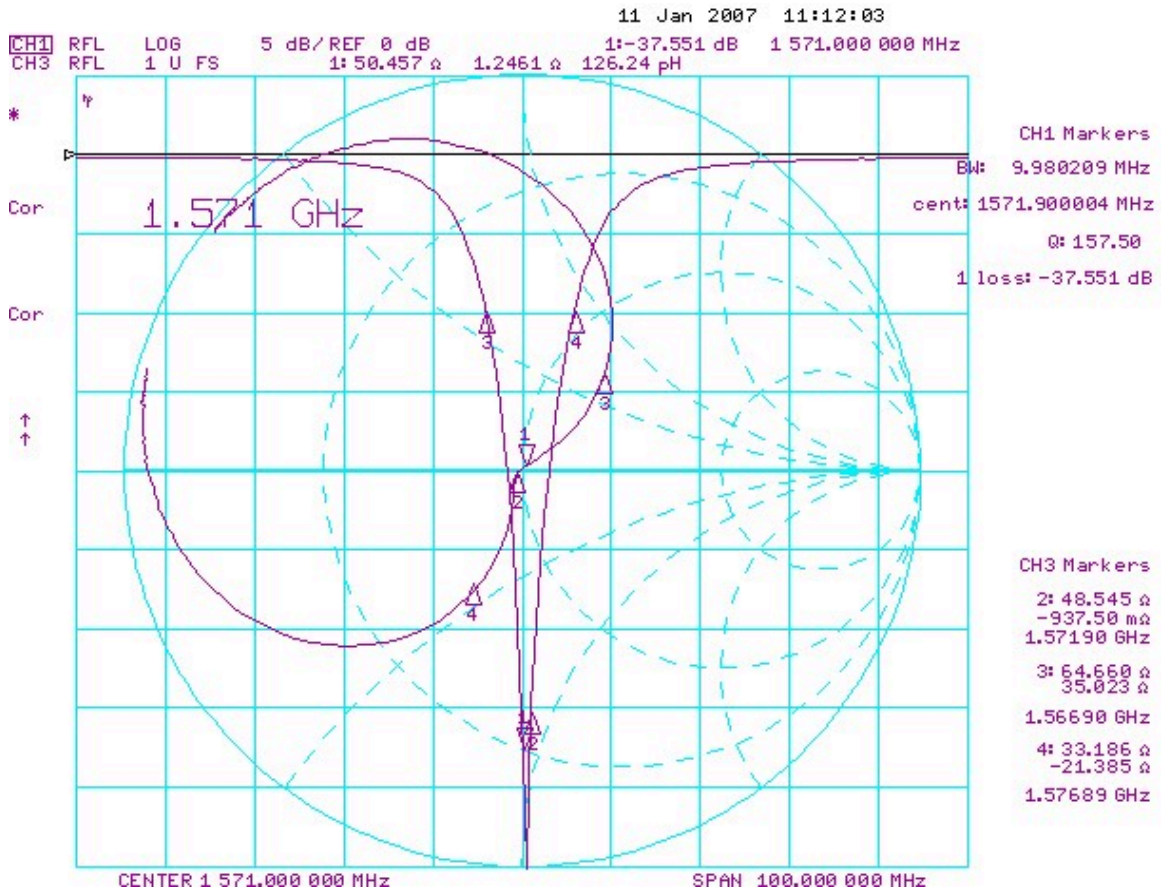


**RoHS**

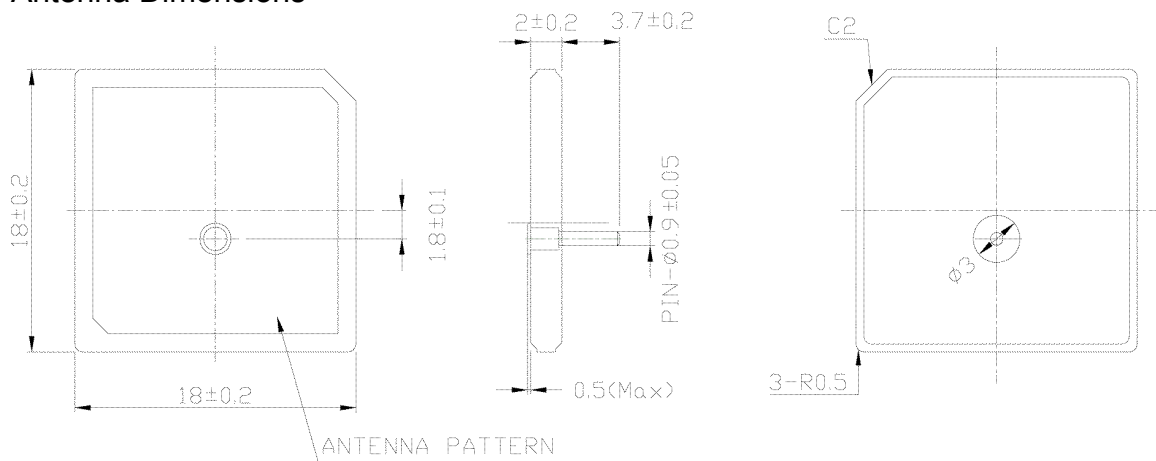
## Specification

| Category                   | Overall performance                   |
|----------------------------|---------------------------------------|
| Electrical Characteristics |                                       |
| Receiving Frequency        | 1572.42MHz $\pm$ 1.023MHz             |
| Center Frequency           | 1571MHz $\pm$ 3MHz                    |
| Bandwith                   | 7.0MHz                                |
| VSWR                       | 1.5 Max                               |
| Gain @ Zenith              | 2.5dB Typ.                            |
| Gain @ 10° Elevation       | -4.5dB Typ.                           |
| Axel Ratio                 | 4dB                                   |
| Polarization               | R.H.C.P.                              |
| Output Impedance           | 50 $\Omega$                           |
| Environmental Conditions   |                                       |
| Operating Temperature      | -40 — +105°C                          |
| Storage Temperature        | -40 — +105°C                          |
| Soldering Temperature      | +400°C for max 6 seconds              |
| Dimensions                 | 18 x 18 $\pm$ 0.2 mm x 2 $\pm$ 0.2 mm |

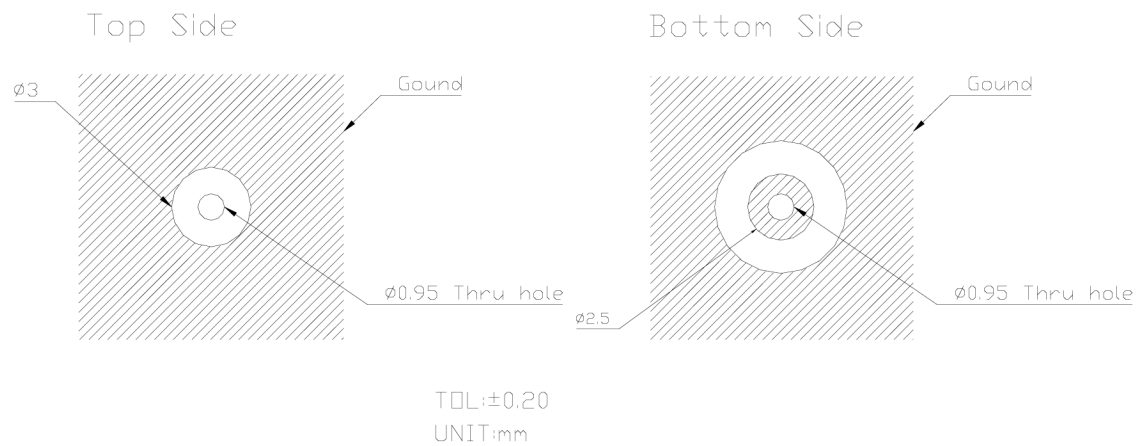
## Dielectric Antenna Electrical Characteristics



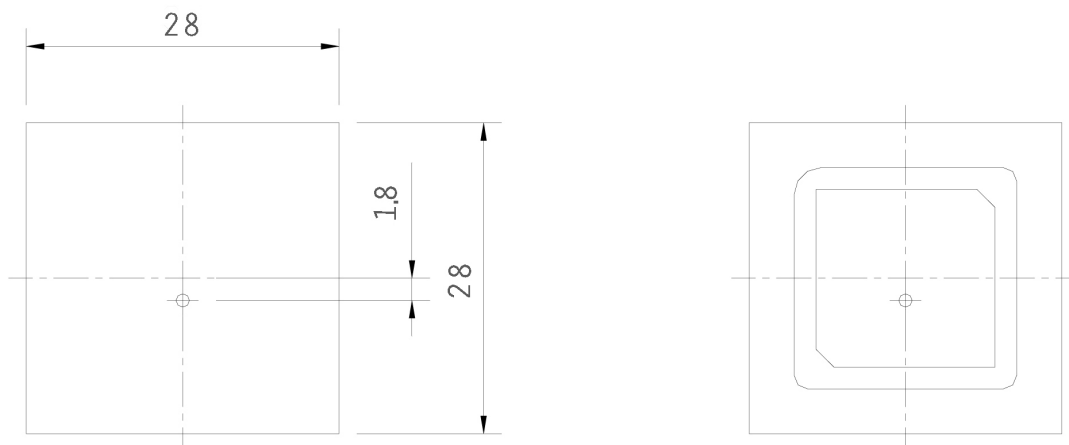
## Antenna Dimensions



## PCB Layout



## Ground Plane Dimensions



## Ordering codes

| TYPE      | Description       | Comment |
|-----------|-------------------|---------|
| ADA-18182 | GPS Patch Antenna | 1571MHz |

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