



# Mini GPS Antenna

## Model: MK-76

### Compact & Sensitive GPS Antenna with Excellent Signal Amplification for Mobile Applications



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#### Introduction:

MK-76 is the most compact GPS antenna available on the current market. Its state-of-the-art technology allows for miniature without. With good coverage almost all the way to the horizon, it performs excellently in foliage or urban canyon environment -- even in the presence of electromagnetic interference!

Featuring diminutive and rugged enclosure and unparalleled performance, MK-76 is compatible with almost every GPS receiver model on the markets and provides an excellent alternative for a vast range of GPS applications including AVL, Vehicle Navigation, Aviation, and Military.

#### Features:

- Diminutive & rugged construction allows for military and other applications demanding high degree of confidentiality.
- Ultra-high sensitivity.
- Module board available for embedded applications.
- Various colors upon request.
- Ideal for PDA, HPC, and other computing devices in GPS applications.
- Fully weatherproof.
- Excellent temperature stability.

### Applications:

- Embedded GPS Antenna for AVL, Fleet Management Systems, Car Navigation, Marine Navigation, Hand-held GPS

### Specification:

| Physical Condition       |  |
|--------------------------|--|
| Construction:            | Polycarbonate radome on metal base   |
| Dimension:               | 33.95mm (L) x 25.20mm (W) x 10.60mm (H)  |
| Weight:                  | 30 grams (excluding cable & connector)   |
| Color of Radome:         | Standard in dark gray, other colors available upon request                                     |
| Standard Mounting:       | Magnet or screw mount  |
| Cable & Connector        |  |
| RF Cable:                | 3 meter RG174/U (standard), other length available   |
| Pulling Strength:        | 6 Kg/5 sec. with molded plastics on connector end for strain relief                            |
| Connector Available:     | BNC, TNC, FME (to be adapted), GT5, MCX (OSX), SMA, SMB or SMC in straight or right angle type |
| Optional Adapters:       | FME~MCX, FME~BNC, FME~SMA, FME~SMB, FME~TNC  |
| Antenna Element          |  |
| Center Frequency:        | 1575.42 MHz +/- 1.023 MHz  |
| Polarization:            | R.H.C.P. (Right Hand Circular Polarization)  |
| Absolute Gain at Zenith: | +5 dBi typically   |
| Gain at 10o Elevation:   | -1 dBi typically   |
| Axial Ratio:             | 3 dB max.  |
| Output VSWR:             | 1.5 max.   |
| Output Impedance:        | 50 ohm   |
| Low Noise Amplifier      |  |
| Center Frequency:        | 1575.42 MHz +/- 1.023 MHz  |
| Gain:                    | 28 dB typically  |
| Band Width:              | 2 MHz min.   |
| Noise Figure:            | 1.5 max.   |
| Out Band Attenuation:    | 20dB min. @F0 +/- 50MHz  |
| Supply Voltage:          | 2.5~5.5V DC  |
| Current Consumption:     | 12 mA +/- 2 mA   |
| VSWR:                    | 1.5 max.   |
| Output Impedance:        | 50 ohm   |
| Environmental conditions |  |
| Operating Temperature:   | -40°C ~ +85°C  |
| Storage Temperature:     | -50°C ~ +90°C  |
| Relative Humidity:       | 95% non-condensing   |

(\*PS: The specification is subject to change without prior notice)