

**Mini GPS Antenna
Model: MK-76**



Applications:

Car Navigation
AVL
Vehicle Tracking
Weather Balloon
Security Surveillance
External Antenna for Handheld
Avionics GPS Antenna
External Antenna for Battery-Operated Handheld Receivers

Overview

MK-76 is the most compact GPS antenna available on the current market. The device's state-of-the-art technology allows for miniature without compromising its performance. 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.

Specifications

Physical Construction:

Constructions: Polycarbonate radome / metal base

Dimension: 33.95mm(L) x 25.20mm(W) x 10.60mm(H)

Weight: 30grams (less cable & connector)

Color of Radome: Standard in dark gray, other colors available upon request

Standard Mounting: Magnet or screw mount

Antenna Element:

Center Frequency: 1575.42 MHz +/- 1.023MHz

Polarization: R.H.C.P.

Absolute Gain @ Zenith: +5 dBi typical.

Gain @ 10° Elevation: -1 dBi typical.

Axial Ratio: 3dBi max.

Output VSWR: 1.5 max.

Output Impedance: 50

Low Noise Amplifier:

Center Frequency: 1575.42MHz +/- 1.023 MHz

Power Gain: 28 dB typically

Bandwidth: 2 MHz min.

Noise Figure: 1.5 max.

Outer Band Attenuation: 20dB min. @ FO +/- 50MHz

Supply Voltages: +2.5 ~ 5.5V DC

Current Consumption: 12 mA +/-2 mA

VSWR: 1.5 max.

Output Impedance: 50

Cable & Connector:

RF Cable: 3 meter RG174/U (standard)

Pulling Strength: 6 kg. /5sec with molded connector

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, MFE~SMA, FME~SMB, FME~TNC

Overall Performance: (antenna element, LNA & coax cable)

Center Frequency: 1575.42 MHz.

Gain: 26dB min.

Noise Figure: 2.0 max.

Bandwidth: 2 MHz min.

Axial Ratio: 3 dB max.

VSWR: 1.5 max.

Output Impedance: 50

Environmental Condition:

Operating Temperature: -30°C ~ +85°C

Storage Temperature: -40°C~ +90°C.

Relative Humidity: 95% non-condensing.

Water Resistance: 100% waterproof.

(This specification is subject to change without prior notice.)

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[Top](#)