



# 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)