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GPS Receiver Tracker Antenna Logger Module Provider

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Home > Products > GPS Antenna
> General Purpose GPS Antenna > SM-76

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Products
Mapping Services
PDA Application
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(This text specifies the basic operation characteristics of the Active GPS antenna Model SM-76 under standard test condition of +2.5& +5.0 Vdc and 25°C /50%R.H. respectively.)

Specification

Physical Characteristics:

- **Constructions:** Polycarbonate radome over a die-cast base along with detachable cable/connector for easy mount
- **Dimensions:** 58 mm(L)x 48 mm(W)x 15 mm(H).
- **Weight:** 63 grams (excluding cable & connector)
- **Standard Mounting:** 2 magnet mount, screw mount with 2 M3 tapped holes on the base.
- **Optional mounting plate:** Metal flanges with holes for permanent mount.

Cable & Connector:

- **RF cable:** 5 meter RG174/U (standard) cable & length (optional)
- **Pulling strength:** 6 Kg @ 5 sec.
- **Connector available:** BNC, TNC, FME, MMCX, MCX, SMA, SMB or SMC. Straight or right angle.
- **Optional:** Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)

Antenna Characteristics:

- **Polarization:** R.H.C.P. (Right Handed Circular Polarization).
- **Absolute Gain @ Zenith:** +5 dBi typically
- **Gain @ 10° Elevation:** -1 dBi typically
- **Axial Ratio:** 3 dB max.
- **Output VSWR:** 1.5 max.
- **Output Impedance:** 50 Ω

Low Noise Amplifier:

- **Center Frequency:** 1575.42 MHz +/- 1.023 MHz.
- **Power Gain:** 28 dB typically
- **Bandwidth:** 2 MHz min.
- **Noise Figure:** 2.5 max.
- **Supply Voltages:** +2.5 ~ 5.5V DC
- **Current Consumption:** 12mA +/- 1mA @ +3.0 ~ 5.0V DC

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

- **Center Frequency:** 1575.42 MHz.
- **Gain:** 26 dB typically
- **Noise Figure:** 2.0 max.
- **Axial Ratio:** 3 dB max.
- **VSWR:** 2.0max.
- **Output Impedance:** 50 Ω

Environmental Conditions:

- **Operating Temperature:** -40°C~ +85°C.
- **Storage Temperature:** -50°C~ +95°C.
- **Relative Humidity:** 95% non-condensing.
- **Water Resistance:** 100% waterproof.

This specification is subject to change without prior notice..

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