



Mobile GPS Antenna with LNA

MODEL: MA-25

Compact & Sensitive GPS antenna with Excellent Signal Amplification for Mobile Applications



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Features

- Compact Construction/ Low Profile/
- Water Resistance
- Magnet Mount Base
- Excellent Temperature Stability
- Low Noise Figure
- High Sensitivity

Applications

- Automobile GPS
- Bluetooth Receiver
- Car Tracking Navigation System
- AVL / Fleet Management Systems
- External Antenna for Handheld GPS
- External Antenna for PDA Navigator

Specifications

| Physical Condition | |
|--|--|
| Construction | Polycarbonate- radome at top, die-cast shell at bottom/ rubber gasket for water seal in between |
| Dimension | 46mm (L) x 38mm (W) x 12.5mm (H) |
| Weight | 50 grams (excluding cable & connector) |
| Standard Mounting | Magnet mount with two magnets & screw mount |
| Optional Mounting Plate | customized metal sheet |
| Cable & Connector | |
| RF Cable | 5 meter RG174/U (standard) cable, other length available |
| Pulling Strength | 6 Kg @ 5sec 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 |
| Optional Adapters | Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX) |
| Antenna Element | |
| Polarization | R.H.C.P. (Right Handed Circular Polarization) |
| Absolute Gain @ Zenith | 3 dBic Typ. |
| Gain | 90° : 2.0dBi min. 20° : -5.0dBi min. Mounted on the 60mm x 60mm square ground plane |
| Axial Ratio | 90° : 3 .0dB max. Mounted on the 60mm x 60mm square ground plane |
| Low Noise Amplifier | |
| Gain | 28+/-4.5dB |
| Bandwidth | 10 MHz min. @S11≤-10 dB |
| Noise Figure | 1.5dB Typ. |
| Supply Voltages | 2.5 ~5.5V DC |
| Current Consumption | 2.7V~2.9V : 10.6mA±1mA 5V: 11.5mA ±1mA |
| Output Impedance | 50 ohm |
| Output VSWR | 2.0 max. |
| Overall Performance (Antenna Element, LNA & Cable) | |
| Center Frequency | 1575.42 MHz |
| Gain | At 90° 30 ± 4.5dBi-(cable loss) Note: 1 Mounted on the 60mm x 60mm square ground plane |
| Output Impedance | 50 ohm |
| VSWR | 2.0 max. |
| Environmental Conditions | |
| Operation temperature | -40°C to +85°C |
| Storage temperature | -40°C to +100°C |
| Relative Humidity | 95% non-condensing |

* This specification is subject to change without prior notice Note: 1: Cable Loss=(-1.2dB/m)