



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 and Screw 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)