Mobile GPS Antenna with LNA MODEL: MA-25

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



MA-25 is the integration of a high performance GPS patch antenna and a state-of-the-art low noise amplifier into a very low profile/ extremely compact/ fully waterproof enclosure which, when connected to a GPS receiver with 2.5~5.5V DC antenna power, provides excellent signal amplification and out-band filtering & rejection, 3V or 5V input Voltage is available.

FEATURES:

- 1. Compact Construction/ Low Profile
- 2.Fully Waterproof
- 3. Magnet and Screw Mount Base
- 4. Excellent Temperature Stability
- 5.Low Noise Figure
- 6. High Gain: 28Db
- 7. Optional customized connectors

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

APPLICATIONS:

- 1. Automobile GPS
- 2. Bluetooth Receiver
- 3. Car Tracking Navigation System
- 4. AVL / Fleet Management Systems
- 5. External Antenna for Handheld GPS
- 6. External Antenna for PDA Navigator

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SPECIFICATIONS:

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hysical Condition	TOO TO THE WAY TO SELECT THE TANK OF THE PARTY OF THE PAR
enstruction	Polycarbonate- radome at top, die-cast shell at bottom/ rubber gasket for water seal in between
nension	46mm (L) x 38mm (W) x 12.5mm (H)
eight	50 grams (excluding cable & connector)
andard Mounting	Magnet mount with two magnets & screw mount
otional Mounting Plate	customized metal sheet
nvironmental Conditions	ON. 10 (N. 100) CON. 1 (N. 100) CON. 1
peration temperature	-40°C to +85°C
orage temperature	-40°C to +100°C
elative Humidity	95% non-condensing
able & Connector	William William Contract
able	5 meter RG174/U (standard) cable, other length available
Illing Strength	6 Kg @ 5sec with molded plastics on connector end for strain relief
onnector Available	BNC,TNC,FME (to be adapted), GT5, MCX (OSX), SMA, SMB or SMC in straight or right angle
ptional Adapters	Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)
tenna Element	THE STATE OF THE S
nter Frequency	1575.42 MHz +/-1.023MHz
larization	R.H.C.P. (Right Handed Circular Polarization)
in @ Zenith	5.0 dB Typ.
in @ 10°	-1 dB Typ.
al Ratio	90°: 3 .0dB max. Mounted on the 60mm x 60mm square ground plane
andwidth	10 MHz min. @S11≤-10 dB
w Noise Amplifier	$co_{M_{22}}$, $co_{M_{23}}$, $co_{M_{23}}$
enter Frequency	1575.42 MHz +/- 1.023 MHz
in WW.1	28 dB Typ.
se Figure	1.5dB Typ.
ter WWY	20dB 25dB @ fo+/- 50MHz 30dB 35dB @ fo+/- 100MHz * fo=1575.42MHz
upply Voltages	2.5 ~5.5V DC
urrent Consumption	2.5V: 6.6mA Typ. 3.0V: 8.6mA Typ. 4.0V: 12.6mA Typ. 5.0V: 16.6mA Typ.
output Impedance	50 ohm
utput VSWR	2.0 max.
verall Performance (Antenna	a Element, LNA & Cable)
equency range	1575.42 +/- 1.023 MHz
ain	At 90° vertical to sky 30 +/- 4.5dBi (cable loss) Note:1
utput Impedance	50 ohm
SWR	2.0 max.