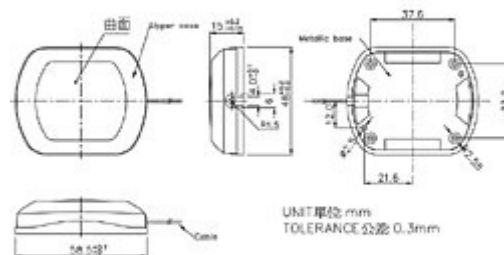


## MA-25 “GPS Antenne mit LNA“

- ❑ Kompakte & Empfindliche GPS-Antenne mit ausgezeichneter Signalverstärkung für mobile Anwendungen
- ❑ Flaches Gehäuse, sehr kompakt
- ❑ Schraube & Magnet Befestigung
- ❑ Hervorragende Temperaturstabilität
- ❑ Low Noise Figure
- ❑ Hohe Empfindlichkeit

### Applications:

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



# Datasheet MA-25 Antenna

## Mechanical Data:

Size in mm (LxWxH)	46x38x12.5
Weight	50gram without cable
Cabel	5m RG174/U Standard, other length on request
Pulling Strength	6kg for 5 sec. With molded plastics on con- nector end for strain relief
Connector available	BNC, TNC, FME, MMCX, MCX, SMA, SMB or SMC in straight or right angle type
Optional	Universal Connector Adapter (FME to TNC, BNC, SMA, SMB, MCX)
Mounting	magnetic & screw mount

## Environmental Conditions:

Operating Temp.	-40°C ~ + 85°C
Storage Temp.	-40°C ~ + 100°C
Relative Humidity	95% non-condensing

## Antenna Element:

Polarization	R.H.C.P:
Absolute Gain @ Zenith	+ 3dBi typical
Gain	90°:2.0 dBi min. 20°:-5.0dBi min mounted on the 60x60 mm square ground plane
Axel Ratio	90°:3 dB max mounted on the 60x60 mm square ground plane

## Low Noise Amplifier:

Power Gain	28 +/- 4.5dB
Bandwidth	10 MHz min @S11-10db
Noise Figure	1.5 dB max

Supply Voltages	+2.5 ~+5.5 V DC
Current Consumption	2.7V~2.9V: 10.6mA+1mA 5V : 11.5mA + 1mA
Output Impedance	50Ω
Output VSWR	2.0 max.

## Overall Performance:

(Antenna element, LNA & Coax cable)

Center Frequency	1575.42
Gain	At 90° 30 +/-4.5 dBi (cable loss)
VSWR	2.0 max
Output Impedance	50Ω

## Contact us:

### **TecSys GmbH**

Karl-Theodor-Str. 55  
80803 Munich  
Germany

Email: [mark@tecsys.de](mailto:mark@tecsys.de)

Internet: <http://www.tecsys.de>

Phone: +49 89 321 990 14

Fax: +49 89 307 21 65

