

AU-12-5B “GPS Antenna”

- ❑ The AU-12-5B is a integration of a high performance GPS patch antenna
- ❑ Sensitive GPS antenna with Excellent Signal Amplification for Mobile Applications
- ❑ The antenna is compatible with almost every GPS receiver model on the market
- ❑ It provides an excellent alternative for a wide range of GPS applications
- ❑ Screw & Magnet Mount Base
- ❑ Excellent Temperature Stability
- ❑ Fully Waterproof
- ❑ Low Noise Figure
- ❑ High Sensitivity

Applications:

- Military
- Automobile GPS
- Car Tracking Navigation System
- AVL / Fleet Management System
- External Antenna for Handheld GPS
- Ideal for PDA, HPC and other computing devices in GPS applications



Datasheet AU-12-5B Antenna

Mechanical Data:

Size in mm (LxWxH)	58x48x14
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,(to be adapted) GT5, MCX (OSX), 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.	-30 °C ~ + 85 °C
Storage Temp.	-40 °C ~ + 100 °C
Relative Humidity	20% to 95%

Antenna Element:

Center Frequency	1575.42Mhz+/-1.023MHZ
Polarization	R.H.C.P.
Absolute Gain @ Zenith	+ 5dBi typical
Gain @ 90° Evation	3 dBi typical
Axel Ratio	4 dB max

Low Noise Amplifier:

Frequency Range	1575.42Mhz+/-1.023MHZ
Gain	23 dB typical
Noise Figure	1.5 dB
Output Impedance	50Ω
VSWR	2.0 max

Overall Specifications through Antenna

Frequency Range	1575.42Mhz+/-1.023MHZ
Gain	20+/-6dBi
Noise Figure	1.6 dB
Output Impedance	50Ω
VSWR	2.0 max
Supply Voltages	4.0 ~+5.25 V DC

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