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### COMPACT GPS ANTENNA

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- **GPS Active Antenna**
- **High Sensitivity**
- **Low Profile**
- **28 dB Gain**
- **2.5 – 5.5 V**
- **Magnet mount**
- **Screw mount**



ADA-HG25 is a State-of-the-Art Low Noise Amplifier, High Gain, small size sensitive GPS antenna.

It is made with fixed RG174/u Low Loss durable cable for maximum performance.

Features a polycarbonate Radome top over a die-cast shell with double magnets all sealed with a rubber gasket. Possibility to fix the antenna with screws.

## Specification

Category	Patch Antenna Element
Frequency	1575.42 MHz $\pm$ 1.023 MHz
Polarization	R.H.C.P.
Gain at Zenith	Typ. + 3 dBic
Gain at 90° Elevation	Typ. - 2 dBi min
Gain at 20° Elevation	Typ. - 5 dBi min. (mounted on a 60 x 60 mm ground plane)
Axial Ratio	3 dBi max. (mounted on a 60 x 60 mm ground plane)
Output V.S.W.R.	1.5 max
Output Impedance	50 $\Omega$

Category	Low Noise Amplifier
Frequency	1575.42 MHz $\pm$ 1.023 MHz
Power Gain	30 dB
Bandwidth	2.0 MHz min.
Noise figure	1.5 max
Outer Band Attenuation	20 dB min. @ $F_o \pm 50$ MHz
Supply Voltage	2.5 – 5.5 VDC
Current consumption	10,6 mA @ 2,9 Volt, 11,5 mA @ 5 Volt,
V.S.W.R.	2.0 max
Output Impedance	50 $\Omega$

Category	Cable and Connector
RF Cable	Standard 5 m RG174/U (other cable length available)
Connector	Any standard RF connector
Pulling strength	6 Kgs/5sec with molded connector

Category	Overall Perform
Center Frequency	1575.42 MHz $\pm$ 1.023 MHz
Gain	28 dB typ. (mounted on a 60 x 60 mm ground plane)
Noise Figure	1,5 dB min.
Axial Ratio	3 dB max.
Bandwidth	10 MHz min.
VSWR	2.0:1 max.
Output Impedance	50 Ohm

Category	Environmental Condition
Operating temperature	-40 — +85 ° C
Storage temperature	-40 — +100 ° C
Relative humidity	95% non-condensing
Water resistance	100 % water proof

Category	Physical construction
Material	Polycarbonate radome at top, Die-cast shell at bottom
Dimension	46mm (L) x 38mm (W) x 12.5mm (H)
Weight	50 g without cable and connector
Color Radome	Black
Standard mounting	Magnet mount with two magnets & screw mount

## Ordering codes

TYPE	Description	Comment
ADA-HG25	Standard colour and cable length	GPS antenna

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