



# HAB-APGPS-30

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## Active GPS Patch Antenna with SMA Connector 0.5/3 Meter

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### Description

Active GPS Patch antenna with built in LNA. Supplied with either a 0.5 or 3 meter of RG174 terminated with an SMA male. Supplied in a water proof package 49x39x15mm with a magnetic base.



### Characteristic

(i) Dielectric Antenna

Center Frequency 1575.42MHz $\pm$ 3 MHz

V.S.W.R 1.5:1

Band Width  $\pm$ 5 MHz

Impedance 50 ohm

Peak Gain  $>$ 3dBic Based on 7x7cm ground plane

Gain Coverage  $>$ -4dBic at  $-90^{\circ} < 0 < +90^{\circ}$  (over 75% Volume)

Polarization RHCP

(ii) LNA/Filter

LNA Gain (Without cable) 28+/-3dB

Noise Figure 1.5dB Typ.

Filter Out Band Attenuation ( $f^{\circ}$  =1575.42MHz)

7dB Min  $f_0$ +/-20MHZ ;

20dB Min  $f_0$ +/-50MHZ;

30dB Min f0+/-100MHZ  
V.S.W.R <2.0  
DC Voltage 2.7V/3.0V/3.3V/5.0V/3.0V to 5.0V/other  
DC Current 5mA /11mA/15mA Max

(iii) Mechanical

Weight <100gram  
Size :45x36x14mm  
Cable :RG174 3 meter or 0.5 meter  
Connector :SMA Plug Male  
Mounting Magnetic base  
Housing Black

(iv) Environmental

Working Temp -40'C~+85'C  
Storage Temp. -45'C~+100'C  
Vibration Sine sweep 1g(0-p)10~50~10Hz each axis  
Relative Humidity 95% non-condensing  
Weatherproof 100% Waterproof

(V) Features

Compact Construction/ Low Profile/  
Fully Waterproof  
Magnet and Screw Mount Base  
Excellent Temperature Stability  
Low Noise Figure  
High Sensitivity

## Disclaimer

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