



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# GPS Active Antenna Module - Magnet Base



44.0 X 37 X 14.5mm

**APAMP-129**



ESD Sensitive

RoHS/RoHS II compliant  
Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-1)

MSL level: Not Applicable

## FEATURES:

- High Reliability/Sensitivity
- Compact Size
- Easy to install (magnet base)
- ROHS Compliant

## TYPICAL APPLICATIONS:

- Automotive Navigation
- Automotive Monitoring
- Personal Tracking

## STANDARD SPECIFICATIONS:

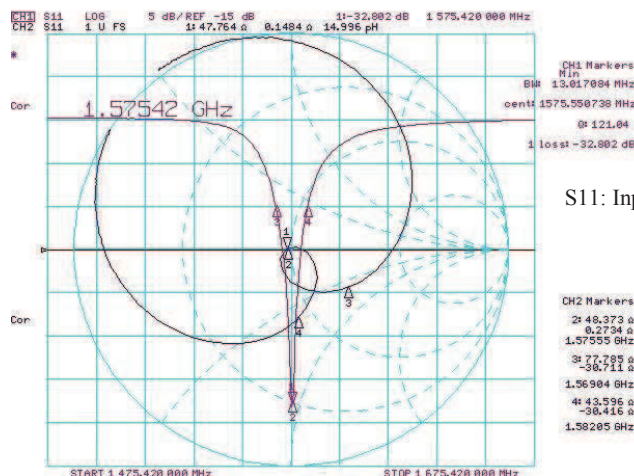
### Antenna

| Parameters               | Min.    | Typ.    | Max.    | Units              | Note                               |
|--------------------------|---------|---------|---------|--------------------|------------------------------------|
| Frequency                | 1574.40 | 1575.42 | 1576.44 | MHz                |                                    |
| Bandwidth                | 10.0    |         |         | MHz                |                                    |
| VSWR at Center Frequency |         |         | 1.5:1   |                    |                                    |
| Polarization Model       | RHCP    |         |         |                    | (Right Hand Circular Polarization) |
| Impedance                |         | 50      |         | $\Omega$           |                                    |
| Gain                     |         | 5       |         | dBic               | (Based on 70× 70mm ground plane)   |
| Operating Temperature    | -40     |         | +80     | $^{\circ}\text{C}$ |                                    |
| Storage Temperature      | -45     |         | +85     | $^{\circ}\text{C}$ |                                    |

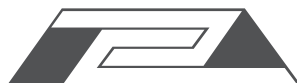
### Low Noise Amplifier (LNA)

| Parameters   | Min.    | Typ.    | Max.    | Units | Note   |
|--------------|---------|---------|---------|-------|--|
| Frequency    | 1574.40 | 1575.42 | 1576.44 | MHz   |  |
| DC Voltage   | 2.5     | 3.0     | 3.5     | V     |  |
| Gain         | 25      | 27      | 29      | dB    | (+25 $^{\circ}\text{C} \pm 10^{\circ}\text{C}$ ) |
| Output VSWR  |         |         | 2.0     |       |  |
| Noise Figure |         |         | 1.5     |       | (+25 $^{\circ}\text{C} \pm 10^{\circ}\text{C}$ ) |
| DC current   |         | 10      | 12.5    | mA    | (At 3.0V)  |

## ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



ABRACON IS  
ISO9001:2008  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 10.30.14**  
30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)

# GPS Active Antenna Module - Magnet Base

APAMP-129



ESD Sensitive

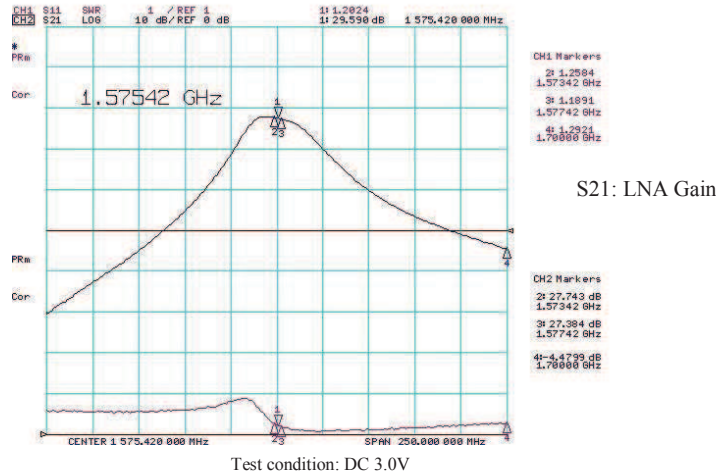
Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-1)

RoHS/RoHS II compliant

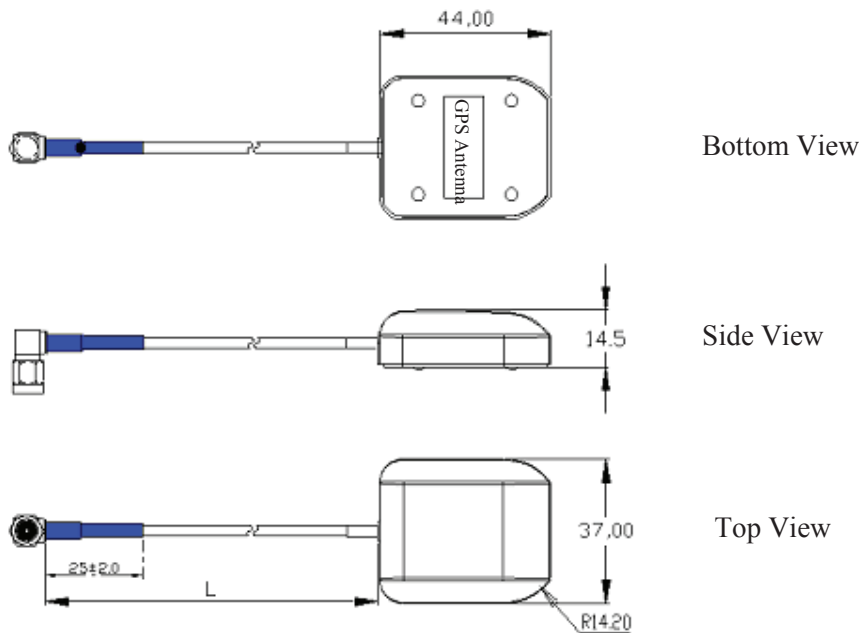


44.0 X 37 X 14.5mm

## LNA REFLECTION PROFILE



## OUTLINE DRAWING:



| Parameters       | Description         |
|------------------|---------------------|
| L (Cable Length) | 300±10cm            |
| Antenna          | Dielectric Ceramics |
| RF Cable         | RG174               |
| PCB              | FR4                 |
| RF Connector     | SMA-JW3             |
| Shielding        | Tinplate            |
| Thickness        | 15mm                |
| Mounting Type    | Magnet Base         |

Unit:mm

# GPS Active Antenna Module - Magnet Base

APAMP-129



ESD Sensitive

Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-1)

RoHS/RoHS II compliant



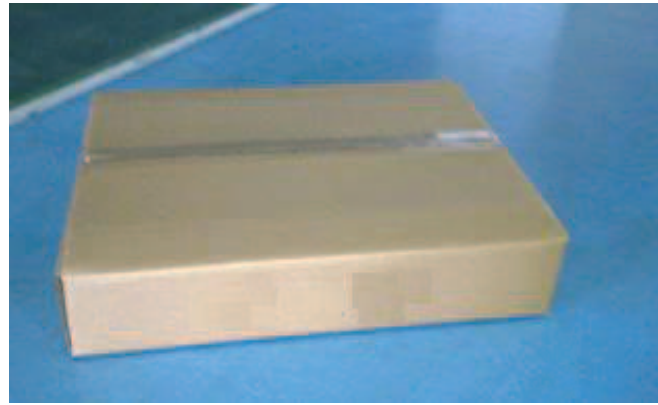
44.0 X 37 X 14.5mm

## PRODUCT IMAGE:



## PACKAGING:

Each 475x215x215 mm size carton includes 100 pieces of antenna.



### CAUTION:

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please insure the component is thoroughly evaluated in the application circuit.

**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS  
ISO9001:2008  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 10.30.14**  
30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)