



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 Mount

**APAMP-122**

RoHS/RoHS II compliant

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



48.6 X 39.2 X 15.2mm

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
Center 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		Ω	
Gain		5		dBic	(Based on 70× 70mm ground plane)
Operating Temperature	-40		+80	°C	
Storage Temperature	-45		+85	°C	

### Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
DC Voltage	3.0		5.0	V	
Gain	25	27	29	dB	(Without cable +25dB± 10dB )
Out-of-band Rejection (Absolute Value)	25			dB	(fo+100MHz)
	40			dB	(fo-100MHz)
Output VSWR			2.0		
Noise Figure			1.5		
DC current		13.5	15.5	mA	(At 5.0V)

### Overall (complete module including RF connector)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
Gain	25	27	29	dBic	(Based on 70x70mm ground plane.)
Output VSWR			2.0		
Impedance		50		Ω	

# GPS Active Antenna Module- Magnet Mount

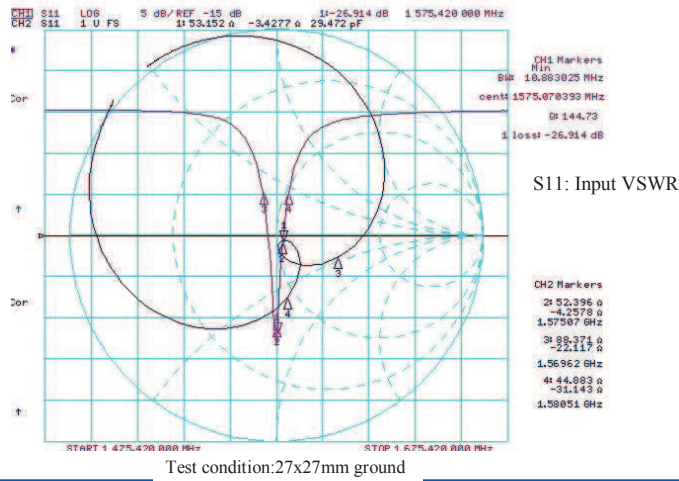
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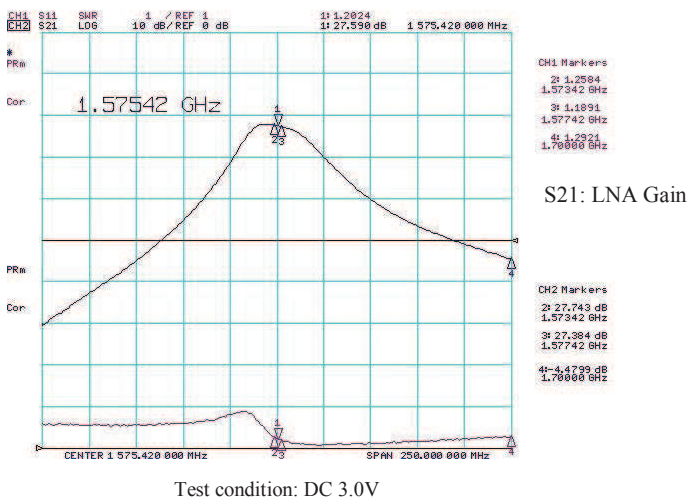


48.6 X 39.2 X 15.2mm

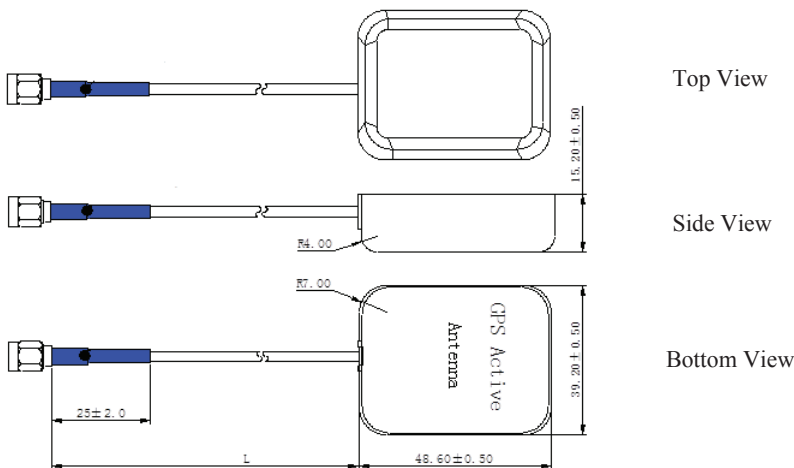
## ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



## LNA REFLECTION PROFILE



## OUTLINE DRAWING:



Parameters	Description
L (Cable Length)	300±10cm
Antenna	Dielectric Ceramic
RF Cable Attenuation	1.3 dB/m
PCB	FR4
RF Connector	SMA-J3
Shielding	Tinplate
Thickness	15.0mm
Mounting Type	Magnet Base

Unit:mm

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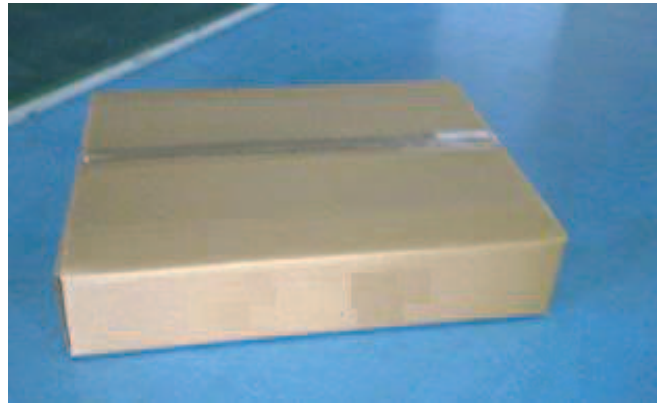
48.6 X 39.2 X 15.2mm

## PRODUCT IMAGE:



## PACKAGING:

Each 475 x 215 x 215 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.

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