# **GPS Active Antenna Module - Adhesive Mount**



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



#### **MSL level: Not Applicable**

#### **FEATURES:**

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

#### > TYPICAL APPLICATIONS:

- Automotive Navigation
- Automotive Monitoring
- · Personal Tracking

## > STANDARD SPECIFICATIONS:

#### Antenna

Parameters	Min.	Тур.	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.	Тур.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
DC Voltage	3.0		5.0	V	
Gain	25	28	31	dB	$(+25^{\circ}C \pm 10^{\circ}C)$
Out-of-band Rejection (Absolute	19			dB	(Fo+100MHZ)
Value)	21			dB	(Fo-100MHZ)
Output VSWR			2.0		
Noise Figure			1.8		
DC current		7.5	9.5	mA	(At 3.0V)

#### Overall (Complete module including RF connector)

Parameters	Min.	Тур.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
Gain	25	28	31	dBic	
Output VSWR			2.0		
Impedance		50		Ω	
ESD Protection		·	±8	kV	(Direct discharge)
			±15	kV	(Air discharge)



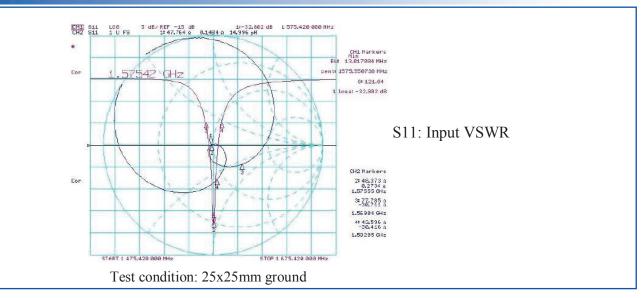
# **GPS Active Antenna Module**

**APAMP-113** 

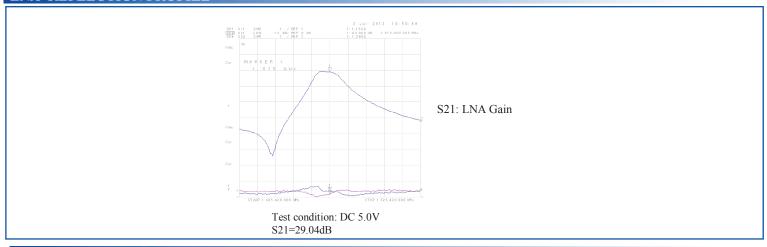
RoHS/RoHS II compliant Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-I)



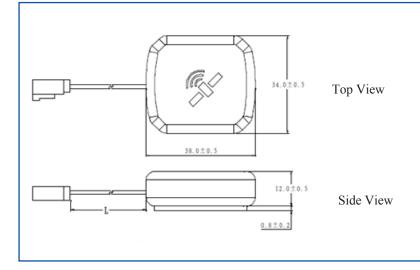
#### > ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



#### LNA REFLECTION PROFILE



#### **OUTLINE DRAWING:**



Parameters	Description
L (Cable Length)	250±10cm
Antenna	Dielectric Ceramic
RF Cable	RG174
RF Cable Attenuation	1.3dB/m
PCB	FR4
RF Connector	FAKRA-C
Shielding	Tinplate
Thickness	12.8mm
Mounting Type	Adhesive Tape

Unit:mm





## **GPS Active Antenna Module**

## APAMP-113

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



### **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.

**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.





## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Antennas category:

Click to view products by ABRACON manufacturer:

Other Similar products are found below:

GAN30084EU 930-033-R GW17.07.0250E 1513563-1 EXE902SM APAMPG-117 MAF94383 W3908B0100 W6102B0100 YE572113-30RSMM 108-00014-50 66089-2406 A09-F8NF-M A09-F5NF-M RGFRA1903041A1T W3593B0100 W3921B0100 SIMNA-868 SIMNA-915 SIMNA-433 W1044 W1049B090 A75-001 WTL2449CQ1-FRSMM CPL9C EXB148BN 0600-00060 TRA9020S3PBN-001 GD5W-28P-NF MA9-7N GD53-25 GD5W-21P-NF EXB144SM C37 MAF94051 GD35-17P-NF P1744 MA9-5N EXD420PL B1322NR QWFTB120 MAF94271 MAF94300 GPSMB301 FG4403 AO-AGSM-OM54 5200232 MIKROE-2349 WCM.01.0111 MIKROE-2393