## **GPS+GLONASS** Active Antenna Module - Magnet Base

ESD Sensitive



44.0 x 14.5mm

**RoHS/RoHS II compliant** 

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

**TYPICAL APPLICATIONS:** 

Automotive Navigation

• Automotive Monitoring

Personal Tracking

### MSL level: Not Applicable

**APAMPG-130** 

#### **FEATURES:**

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

### **STANDARD SPECIFICATIONS:**

#### Antenna

#### **Parameters** Min. Max. Units Typ. Note (For GPS) 1572.42 1575.42 1578.42 MHz Frequency Range (For GLONASS) 1594 1602 1610 MHz (For GPS) MHz 8.0 Bandwidth (For GLONASS) 16.0 MHz VSWR at Center Frequency 1.5:1 (Right Hand Circular Polarization) RHCP Polarization Model 50 Impedance Ω (Based on $70 \times 70$ mm ground plane) 5 dBi Gain -40 +80°C **Operating Temperature** -45 +85Storage Temperature °C

#### Low Noise Amplifier (LNA)

Parameters	Min.	Тур.	Max.	Units	Note
Frequency Range	1572	1595	1618	MHz	
DC Voltage	2.8		5.0	V	
Gain		30		dB	(without cable $+25^{\circ}C \pm 10^{\circ}C$ )
Output VSWR			2.0		
Noise Figure			1.5		$(+25^{\circ}C \pm 10^{\circ}C)$
DC current		13.5		mA	(At 3.0V)
Out-Band Rejection	20			dB	(fo+100MHz)
	25			dB	(fo-100MHz)

#### **Overall (Complete Module including RF Connector)**

Parameters	Min.	Тур.	Max.	Units	Note
Frequency Range	1572	1595	1618	MHz	
Output V.W.S.R			2.0		
Impedance		50		Ω	
Peak Gain			30	dBic	
Operating Temperature	-40		+80	°C	
Storage Temperature	-45		+85	°C	





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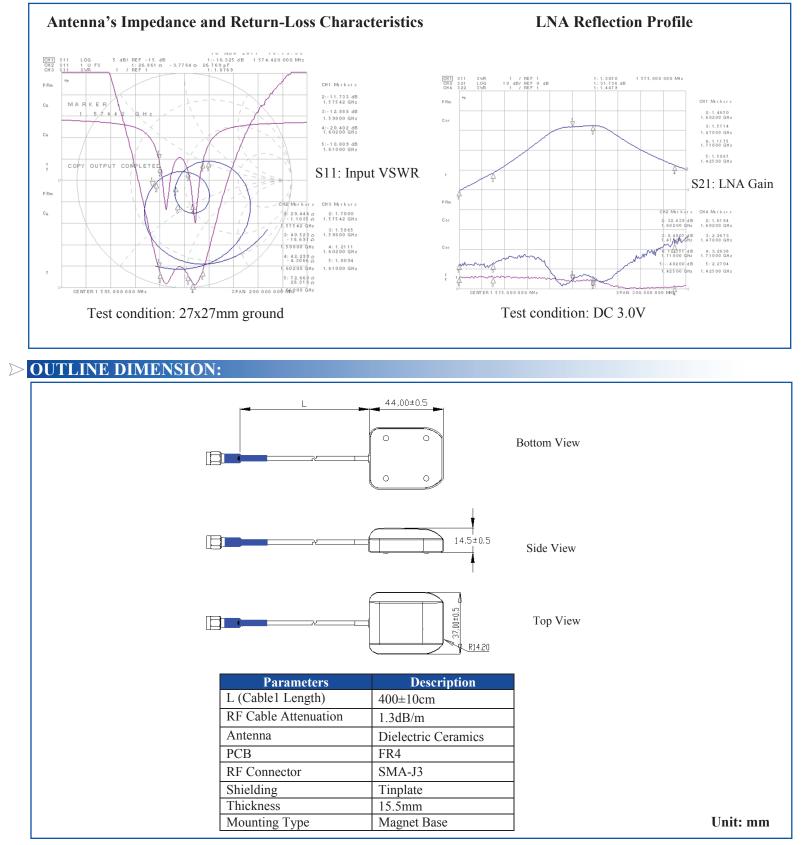
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#### **TEST CONDITIONS & TEST SETUP:**



ABRACON IS ISO9001:2008 CERTIFIED



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**PRODUCT IMAGE:** 



### **PACKAGING:**

Each 630 x 460 x 105mm 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.





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