GPS Active Antenna Module- Magnet Mount

ESD Sensitive



APAMP-123

MSL level: Not Applicable

FEATURES:

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

STANDARD SPECIFICATIONS:

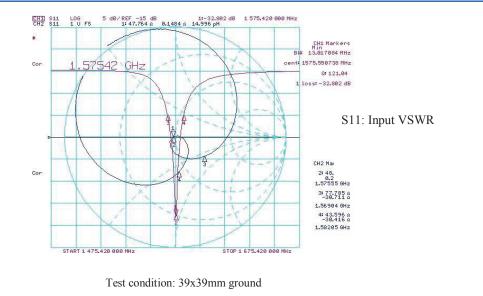
Antenna

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		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
Frequency	1574.40	1575.42	1576.44	MHz	
DC Voltage	2.5		3.5	V	
Gain	25	26	28	dB	$(+25^{\circ}C \pm 10^{\circ}C)$
Output VSWR			2.0		
Noise Figure			1.5		$(+25^{\circ}C \pm 10^{\circ}C)$
DC current		10	12.5	mA	(At 3.0V)

▶ ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



ABRACON IS ISO9001:2008 CERTIFIED



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

RoHS/RoHS II compliant

- > TYPICAL APPLICATIONS:
 - Automotive Navigation
 - Automotive Monitoring
 Personal Tracking
 - Personal Tracking

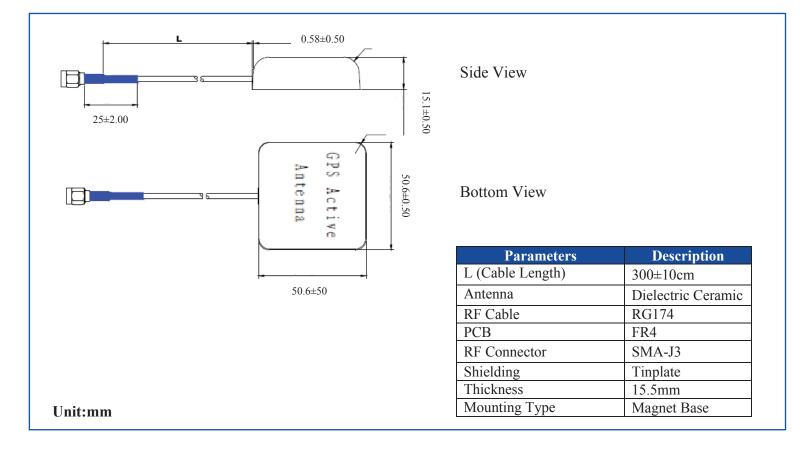
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RoHS/RoHS II compliant Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-I) 50.6 X 50.6 X 15.1mm

LNA REFLECTION PROFILE CH1 S11 SWR CH2 S21 LOG 1 / REF 1 10 dB/ REF -40 dB 1: 1.2821 1: 26.331 dB 1 575.420 000 MHz * CH1 Markers 2: 1.4977 1.52542 GHz Con 1.57542 GHz 3: 1.1294 1.62542 GHz 4: 1.6586 1.47542 GHz 5: 1.1329 1.67542 GHz 1 4 S21: LNA Gain CH2 Markers Con 2: 5.0532 dB 1.52542 GHz 3: 7.8589 dB 1.62542 GHz 4:-13.627 dB 1.47542 GHz 5:-3.4209 dB 1.67542 GHz Test condition: DC 3.3V

OUTLINE DRAWING:







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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.





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