

GPS Active Antenna Module - Magnet Base

APAMP-126



ESD Sensitive

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

RoHS/RoHS II compliant



46.0 X 38 X 15mm

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:

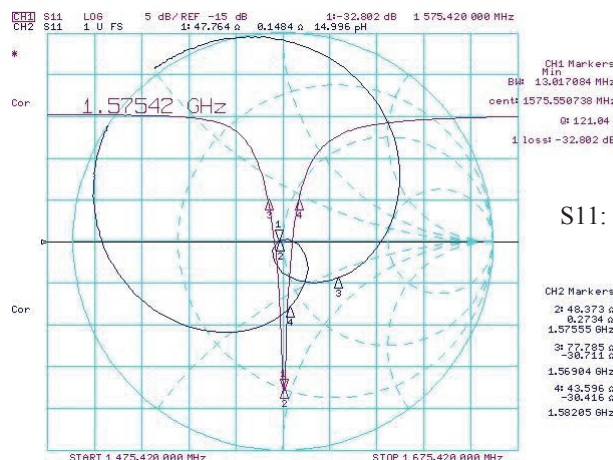
Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
Bandwidth	10.0			MHz	
VSWR			1.5:1		
Polarization Model	RHCP				(Right Hand Circular Polarization)
Impedance		50		Ω	
Gain		5		dBic	(Based on 70x 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	3.0		5.0	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		13.5	15.5	mA	(At 5.0V)

ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



S11: Input VSWR

Test condition: 30x30mm ground

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 ISO9001:2008
 CERTIFIED



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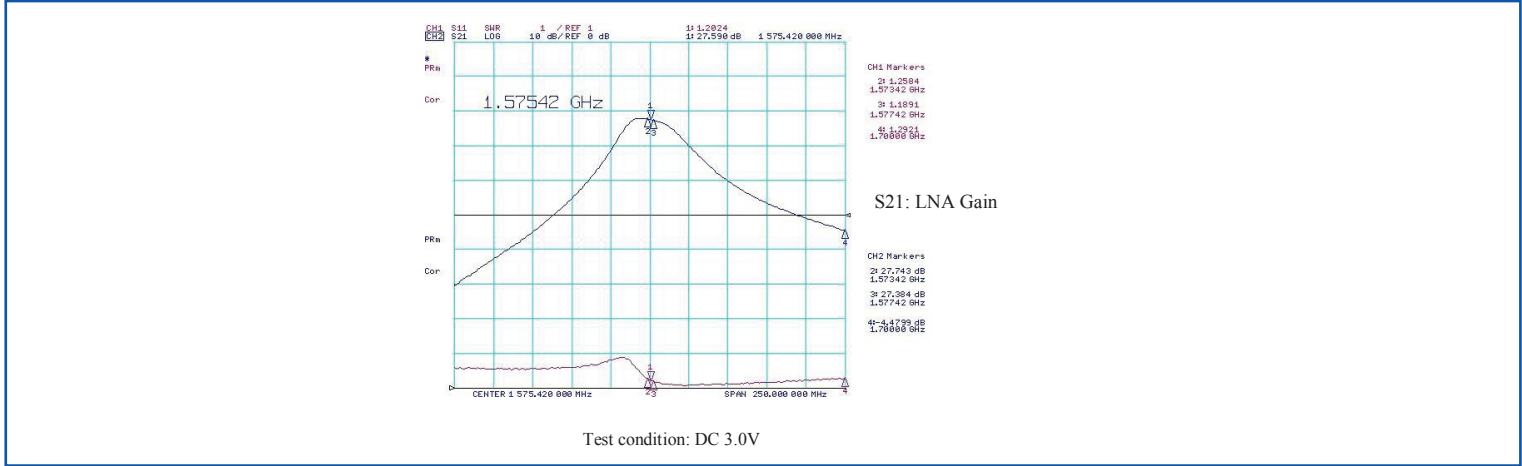
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LNA REFLECTION PROFILE



OUTLINE DRAWING:

Top View: 46.0 mm width, 38.0 mm height

Side View: 15.0 mm thickness

Bottom View: 25 ± 2 mm distance from cable to antenna base, total length L

Parameters	Description
L (Cable Length)	300±5cm
Antenna	Dielectric Ceramic
RF Cable	RG174
PCB	FR4
RF Connector	SMA-J3
Shielding	Tinplate
Thickness	15mm
Mounting Type	Magnet Base

Unit:mm

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PRODUCT IMAGE:



PACKAGING:

Each 475 x 215 x 215 mm size carton includes 100 pieces of antenna.

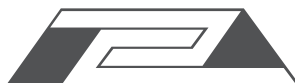


CAUTION:

- (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.

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