GPS Active Antenna Module

APAMP-115

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 (magnetic base /adhesive 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			1.5:1		
Polarization Model		RHCP			(Right Hand Circular Polarization)
Impedance		50		Ω	
Gain		3.5		dBic	(Based on 70× 70mm ground plane)

Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
DC Voltage	2.5		3.5	V	
Gain	26	28	30	dB	$(+25^{\circ}C \pm 10^{\circ}C)$
Output VSWR			2.0		
Noise Figure			1.8		$(+25^{\circ}C \pm 10^{\circ}C)$
DC current		14	16	mA	(At 3.0V)





GPS Active Antenna Module

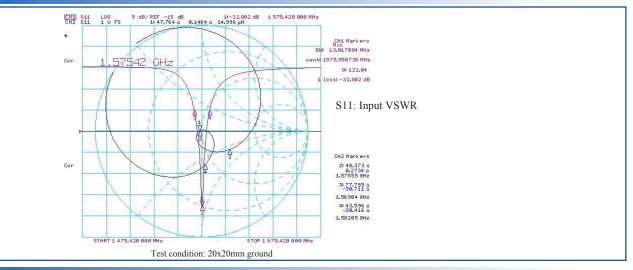
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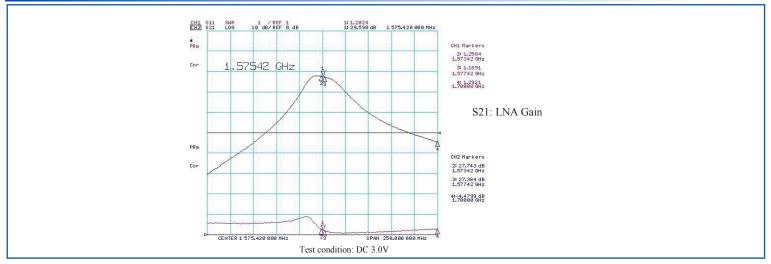


40.0 X 35.0 X 13.1mm

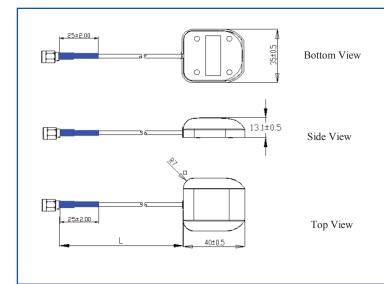
> ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



LNA REFLECTION PROFILE



OUTLINE DRAWING:



Parameters	Description
L (Cable Length)	300±10cm
Antenna	Dielectric Ceramic
RF Cable	RG174
PCB	FR4
RF Connector	SMA-J3
Shielding	Tinplate
Thickness	13.5mm

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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