

Engineering/Process Change Notice

ECN/PCN No.: R0045

For Manufacturer									
Product Description: GPS Active Antenna Module	Abracon Part Numbe APAMF	-	□ Documentation only□ ECN⋈ EOL	☐ Series ☑ Part Number					
Affected Revision: Rev B	New Revision:		Application:	☐ Safety ☑ Non-Safety					
Prior to Change:									
N/A									
After Change:									
EOL									
Cause/Reason for Change:									
Discontinued by factory due to EOL for LNA									
Change Plan									
Effective Date: 06/18/2021	Additional Remarks: N/A								
Change Declaration: EOL									
Issued Date: 06/18/2021	Issued By: Nicholas El-Takach		Issued Department: Engineering						
Approval:	Approval:		Approval:						
Syed Raza Engineering VP	Reuben Quintanilla Quality Director		Ying Huang Purchasing Director						
	For Abracon EOL only								
Last Time Buy (if applicable): Alternate Part Number / Part Series:									
No last time buy.		N/A							
Additional Approval:	Additional Approval:		Additional Approval:						
	Customer Appro	val (If Applicable)							
Qualification Status: ☐ Approved ☐ Not accepted									
Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.									
Customer Part Number:	Customer Project:								
Company Name:	Company Representative:		Representative Signature:						
Customer Remarks:									

Form #7020 | Rev. G | Effective: 02/22/2021 |













GPS Active Antenna Module - Adhesive Mount

APAMP-114

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:

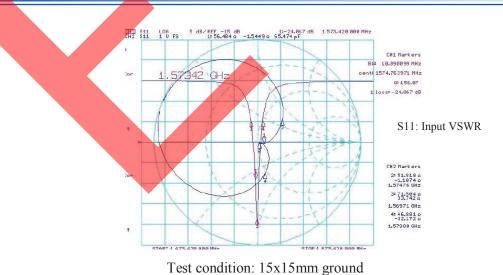
Antenna

Parameters	Min.	Тур.	Max.	Units	Note
Frequency	1574.40	1575.42	1576.44	MHz	
Bandwidth	5.0			MHz	
VSWR at Center Frequency			1.5:1		
Polarization Model	RHCP				(Right Hand Circular Polarization)
Impedance		50		Ω	
Gain		1		dBic	(Based on 70× 70mm ground plane)
Operating Temperature	-40		+80	°C	
Storage Temperature	-45		+85	°C	

Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Frequency	1574.40	1575.42	1576.44	MHz	
DC Voltage	2.5		6.0	V	
Gain	24	26	28	dB	$(+25^{\circ}\text{C} \pm 10^{\circ}\text{C})$
Output VSWR			2.0		
Noise Figure			1.6		$(+25^{\circ}C \pm 10^{\circ}C)$
DC current		11	13	mA	(At 5.0V)

> ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS







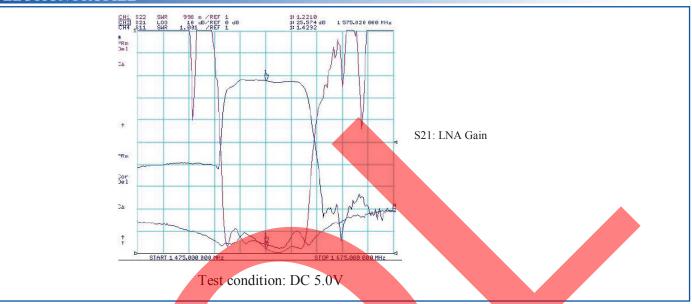
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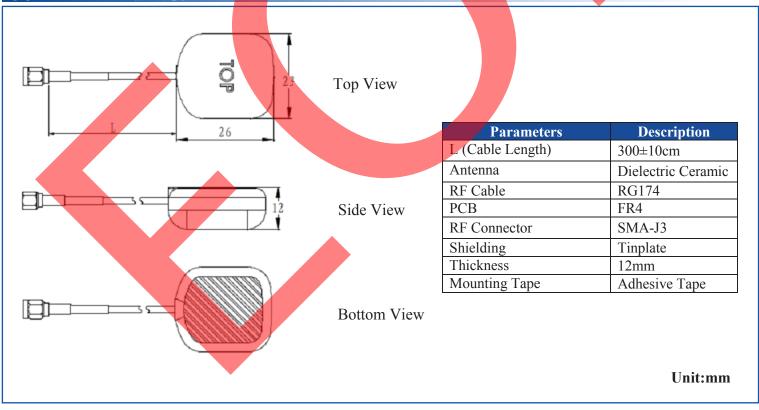
RoHS/RoHS II compliant Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-I)



LNA REFLECTION PROFILE



OUTLINE DRAWING:





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APAMP-114

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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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