

## Excellent Integrated System Limited

Stocking Distributor

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[Abracon Corporation](#)

[APAM1568YE15V2.0](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# GPS Active Internal Patch

APAM1568YE15V2.0



## ESD Sensitive

RoHS/RoHS II compliant

15.0 x 15.0 x 6.8mm

### MSL level: Not Applicable

## ➤ FEATURES:

- Compact Size
  - Easy to Install
  - RoHS Compliant

## ► TYPICAL APPLICATIONS:

- Automotive Navigation, Marine buoys
  - Personal Tracking
  - Surveying equipment, Cell phone, Laptop
  - Healthcare and medical monitoring devices, PND, PDA

## ► STANDARD SPECIFICATIONS:

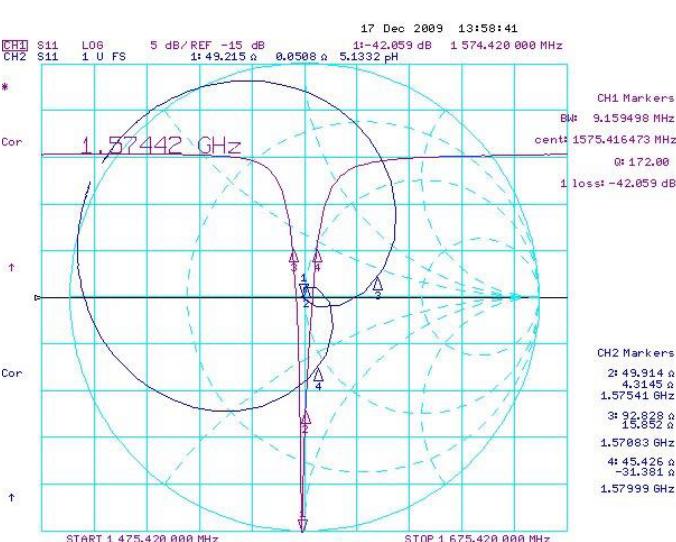
## Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		1575.42± 1.02		MHz	
Bandwidth	5			MHz	
Gain		1.5		dBic	(Peak gain on 70*70mm Ground Plane facing Zenith.)
VSWR @ Center Frequency		1.5			
Polarization Model		RHCP			(Right Hand Circular Polarization)
Impedance		50		Ω	
Working Temperature	-25		+72	°C	
Storage Temperature	-45		85	°C	

## Low Noise Amplifier (LNA)

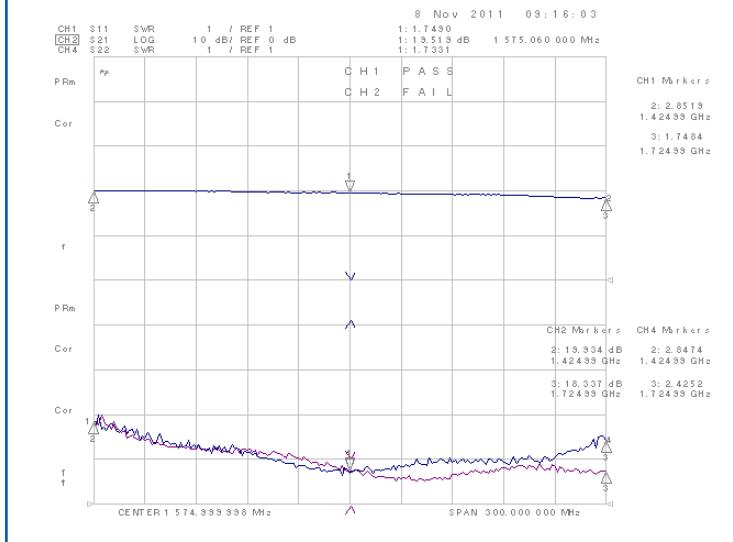
Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		1575.42±1.02		MHz	
DC Voltage	2.70		3.30	V	
Gain		18		dB	(Without cable +25°C± 10°C)
Output VSWR		1.5			
Noise Figure		1.3			(+25°C± 10°C)
DC current		3.5		mA	(At 3.0V)

## SMITH CHART



### Test Condition: 13x13mm Ground

## GPS LNA GAIN PLOT



Test Condition: 3.0V DC

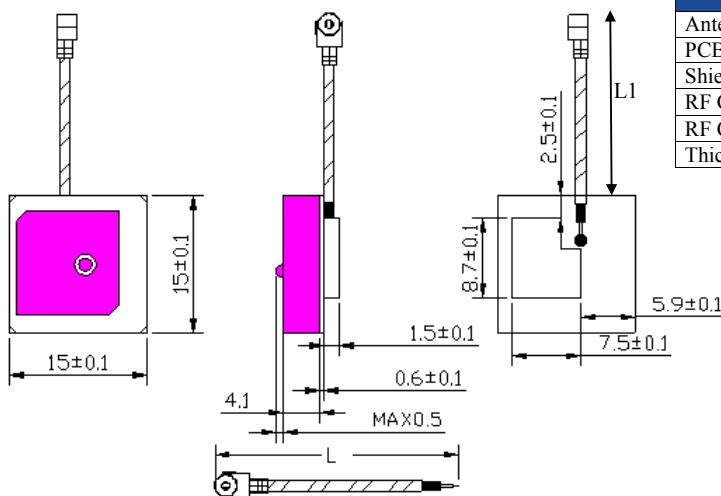
## GPS Active Internal Patch

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RoHS/RoHS II compliant



## ► OUTLINE DIMENSION:



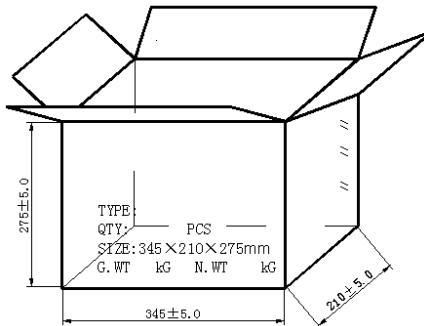
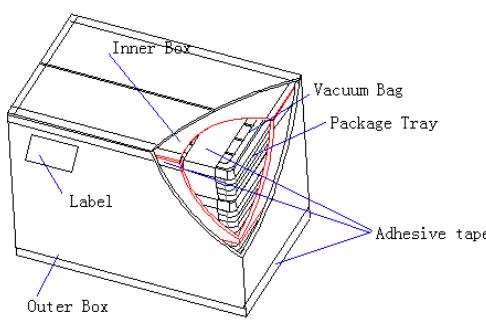
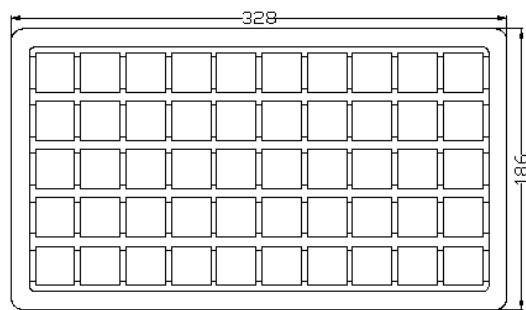
Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	$\phi 0.81 \pm 0.1$ mm, L1=30±2mm, L=36±2mm
RF Connector	I-PEX
Thickness	6.8mm Max

Tolerance:  $\pm 0.2$ mm

Unit: mm

## ► PACKAGING

Package Type	Quantity
Tray	50 pcs/tray
Vacuum Bag	200pcs/box
Outer Box	1000 pcs/box



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