

## Excellent Integrated System Limited

Stocking Distributor

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[Abracon Corporation](#)

[APAM1368YB13V3.0](#)

For any questions, you can email us directly:

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

# GPS Active Internal Patch



## ESD Sensitive

RoHS/RoHS II compliant



13.0 x 13.0 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:

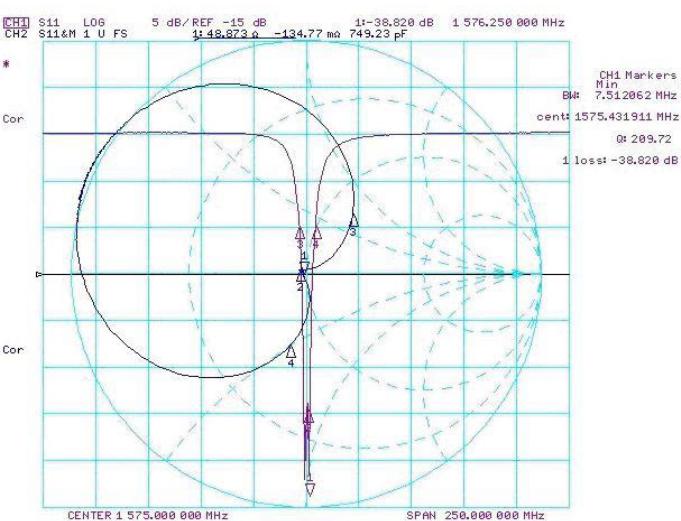
## Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		1575.42±1.02		MHz	
Bandwidth	5			MHz	
Gain		1.0		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)

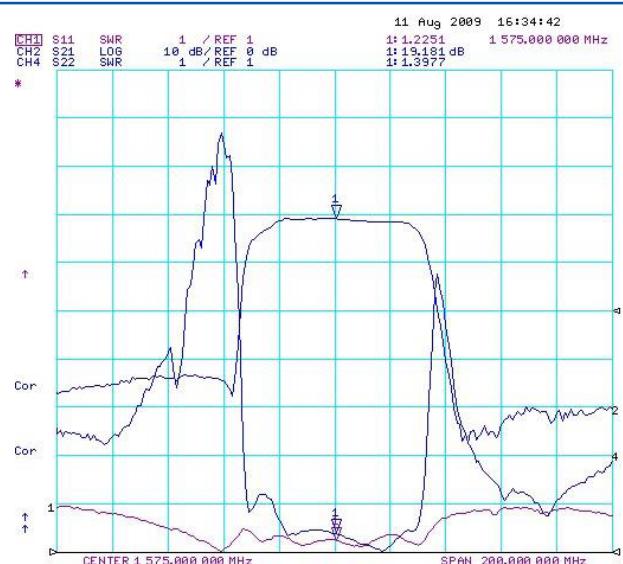
Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		1575.42±1.02		MHz	
DC Voltage	2.70		3.30	V	
Gain		19		dB	(Without cable +25°C± 10°C)
Output VSWR		1.5			
Noise Figure		1.3			(+25°C± 10°C)
DC current		3.5		mA	(At 3.0V)

## ➤ SMITH CHART



Test Condition: 13x13mm Ground

## GPS LNA GAIN PLOT



Test Condition: 3.0V DC

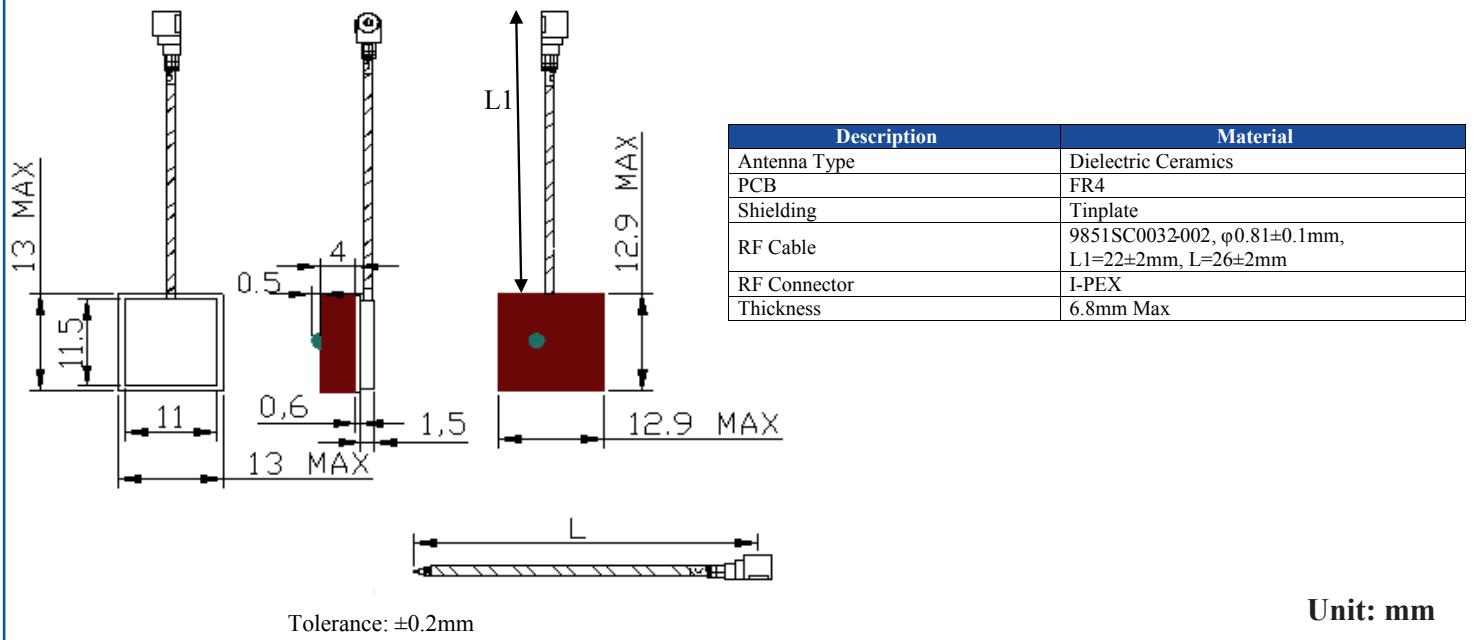
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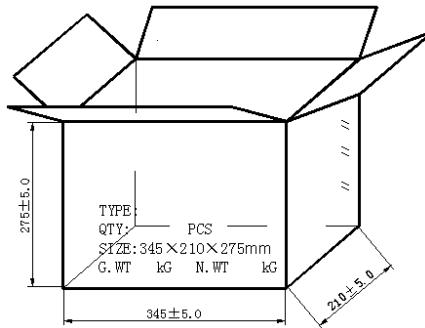
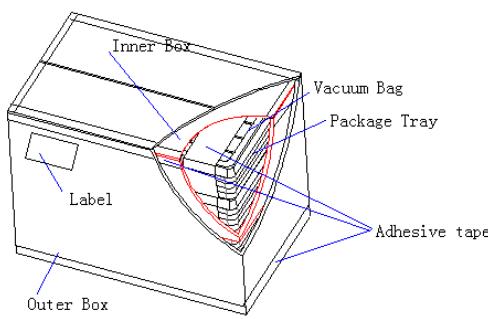
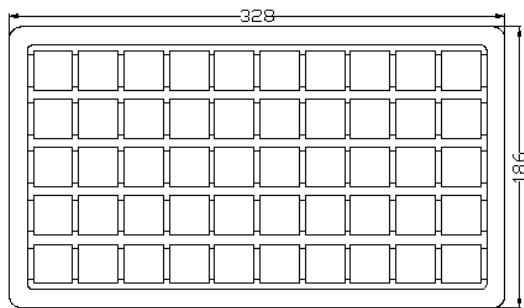


## ► OUTLINE DIMENSION:



## ► PACKAGING

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



**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.