# **GPS Active Internal Patch**

## APAM1368YB13V3.0

#### **FEATURES:**

- Compact Size
- Easy to Install
- RoHS Compliant

## **STANDARD SPECIFICATIONS:**

#### Antenna



13.0 x 13.0 x 6.8mm

0

#### MSL level: N/A

### **TYPICAL APPLICATIONS:**

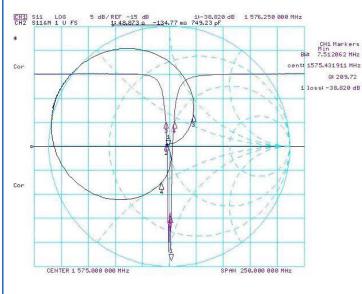
- Automotive Navigation, Marine buoys
- Personal Tracking
- Surveying equipment, Cell phone, Laptop
- · Healthcare and medical monitoring devices, PND, PDA

Antenna							
Parameters	Min.	Тур.	Max	κ.	Units	Note	
Center Frequency	157	1575.42±1.02			MHz		
Bandwidth	5				MHz		
Gain		1.0			dBic	(Peak gain on70*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.	Тур.	Max.	Units	Note
Center Frequency	$1575.42 \pm 1.02$			MHz	
DC Voltage	2.70		3.30	V	
Gain		19		dB	(Without cable $+25^{\circ}C \pm 10^{\circ}C$ )
Output VSWR		1.5			
Noise Figure		1.3			(+25°C± 10°C)
DC current		3.5		mA	(At 3.0V)

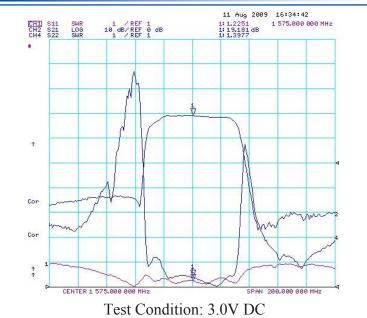
#### **SMITH CHART**



Test Condition: 13x13mm Ground



#### **GPS LNA GAIN PLOT**



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#### REVISED: 08.03.2018



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### **OUTLINE DIMENSION:**

**RoHS/RoHS II compliant** 

Description

13.0 x 13.0 x 6.8mm

MSL level: N/A

Dielectric Ceramics

FR4

Tinplate

I-PEX

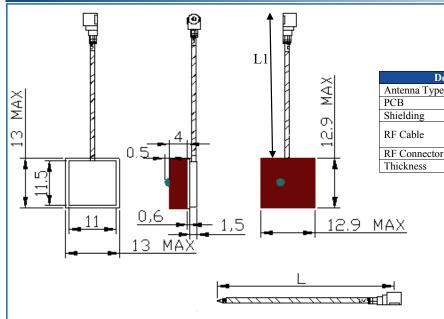
6.8mm Max



Material

9851SC0032-002, φ0.81±0.1mm,

L1=22±2mm, L=26±2mm



Unit: mm

#### Tolerance: ±0.2mm

### **PACKAGING**

Package Type	Quantity
MOQ	250 pcs
Tray	50 pcs/tray
Vacuum	5 trays per Vacuum bag (250pcs per bag)
Outer Box	4  bags = 1000  pcs/carton

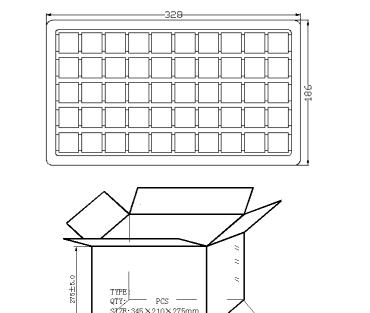
Inner Box

Label

Outer Box

Vacuum Bag - Package Tray

Adhesive tape



kG

21015.0

The GPS antenna 50 pcs are packed per tray, 5 trays are packed per vacuum bag, 4 vacuum bags per carton, and 1000 pcs GPS antenna per carton. The size of each carton is 345\*210\*275mm.

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G.WT kG N.WT

345±5.0

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ABRACON IS ISO9001-2015 CERTIFIED

## **Mouser Electronics**

Authorized Distributor

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