# **GPS Active Internal Patch**

## **APAM1866YA18**

## RoHS/RoHS II compliant

### MSL level: N/A



#### **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:

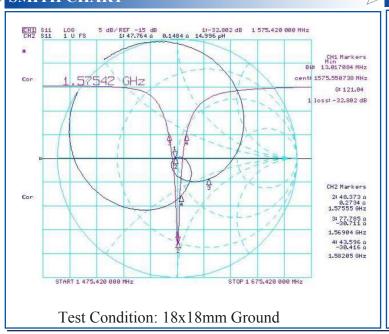
#### Antenna

Parameters	Min.	Тур.	N	Aax.	Units	Note
Center Frequency	157	$1575.42 \pm 1.023$		MHz		
Bandwidth	8				MHz	
Gain		2.5			dBic	(Peak gain on70*70mm Ground Plane facing Zenith.)
VSWR @ Center Frequency		2.0				
Polarization Model		RHCP				(Right Hand Circular Polarization)
Impedance		50			Ω	
Working Temperature	-40		·	+85	°C	
Storage Temperature	-40			+85	°C	

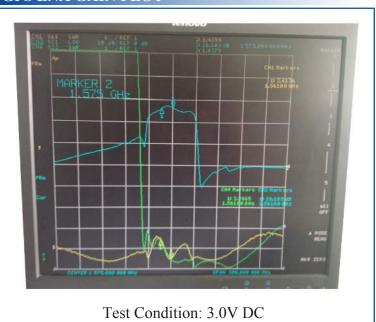
### Low Noise Amplifier (LNA)

Parameters	Min.	Тур.	Max.	Units	Note
Center Frequency	1:	$1575.42 \pm 1.023$		MHz	
DC Voltage	2.70	3.0	3.30	V	
Gain	24	27	30	dB	(Without cable +25°C± 10°C)
Output VSWR			2.0		
Noise Figure			2.0	dB	
DC current	11	13	15	mA	(At 3.0V)
Outband Rejection	20			dB	f0 + 100 MHz
(Absolute value)	30			dB	f0 - 100 MHz

#### **SMITH CHART**



### □ GPS LNA GAIN PLOT



REVISED: 08.03.2018

ABRACON IS ISO9001-2015 CERTIFIED

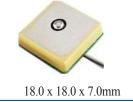


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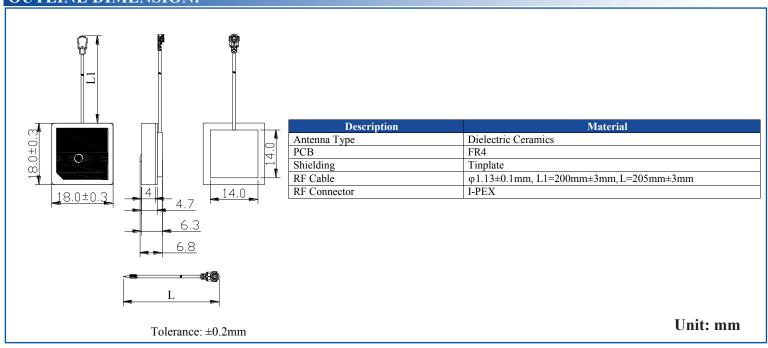
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## **PACKAGING**

		328
Package Type	Quantity	
MOQ	150 pcs	
Tray	30 pcs/tray	
Vacuum Bag	5 tray per Vacuum bag (150pcs per bag)	
Outer Box	4 bags = 600 pcs/carton	
	Vacuum Bag Package Tray	

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