# **GPS Active Internal Patch**

# **APAM1866YA18**

# RoHS/RoHS II compliant

18.0 x 18.0 x 7.0mm

## MSL level: N/A

# 18.0 v 18.0 v 7.0mm

#### **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:

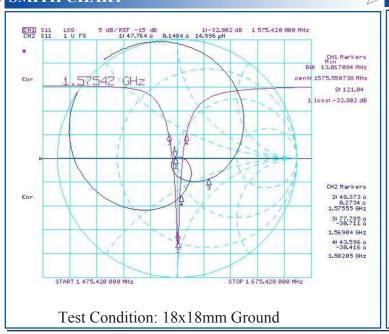
#### Antenna

Parameters	Min.	Тур.	N	Max.	Units	Note
Center Frequency	157	$75.42 \pm 1.023$	3		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	

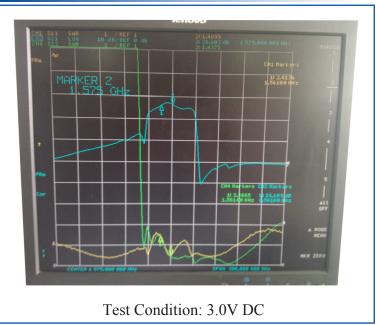
#### Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1	$575.42 \pm 1.0$	)23	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





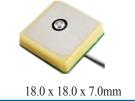
5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com REVISED: 08.03.2018

ABRACON IS ISO9001-2015 CERTIFIED

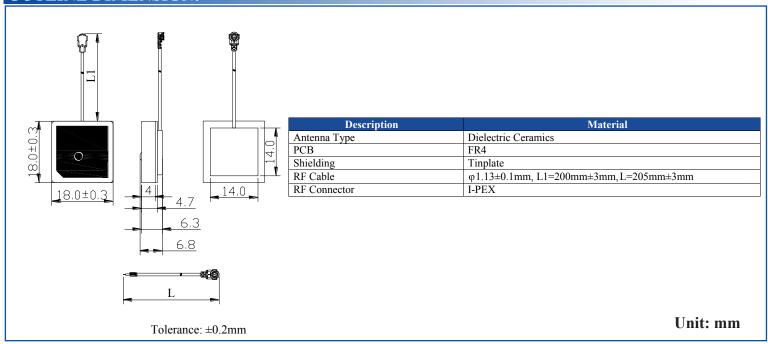
# **GPS Active Internal Patch**

# **APAM1866YA18**

#### RoHS/RoHS II compliant







## **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	
#	Timer Dex	/ } //

ATTENTION: Abracon LLC'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-dependent 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 LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com REVISED: 08.03.2018

ABRACON IS ISO9001-2015 CERTIFIED

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

APAM1866YA18