APAM1866YA18

FEATURES:

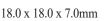
- Compact Size
- Easy to Install
- RoHS Compliant

STANDARD SPECIFICATIONS:

Antonno

RoHS/RoHS II compliant

MSL level: 1



0

TYPICAL APPLICATIONS:

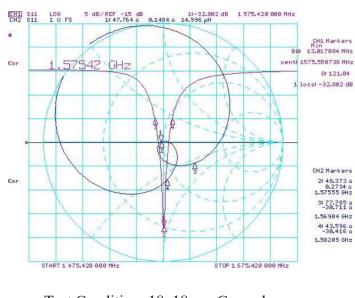
- Automotive Navigation, Marine buoys
- Personal Tracking
- Surveying equipment, Cell phone, Laptop
- · Healthcare and medical monitoring devices, PND, PDA

Antenna						
Parameters	Min.	Тур.	M	lax.	Units	Note
Center Frequency	157	1575.42±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.	Typ.	Max.	Units	Note
Center Frequency	1	1575.42 ± 1.023		MHz	
DC Voltage	2.70	3.0	3.30	V	
Gain	24	27	30	dB	(Without cable $+25^{\circ}C \pm 10^{\circ}C$)
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 >

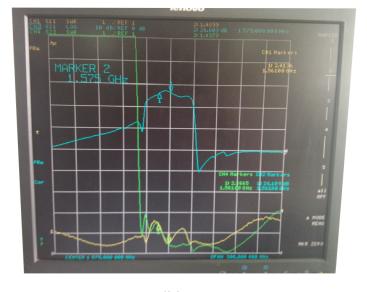


Test Condition: 18x18mm Ground

The Heartbeat of the IoT[™]

5101 Hidden Creek Ln Spicewood TX 78669 ABRACO

GPS LNA GAIN PLOT



Test Condition: 3.0V DC

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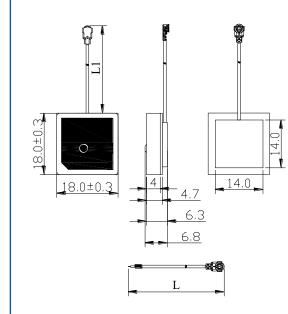
REVISED: 05.18.2018

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GPS Active Internal Patch

APAM1866YA18

OUTLINE DIMENSION:

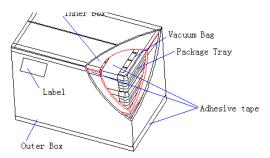


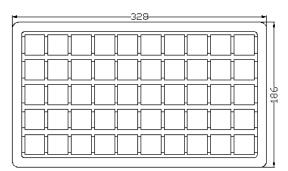
Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	φ1.13±0.1mm, L1=200mm±3mm, L=205mm±3mm
RF Connector	I-PEX

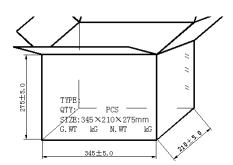
Tolerance: ±0.2mm

PACKAGING

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







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18.0 x 18.0 x 7.0mm

Unit: mm