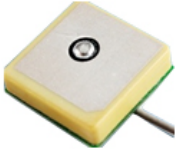
GPS Active Internal Patch

APAM1866YA18

ESD Sensitive

RoHS/RoHS II compliant



18.0 x 18.0 x 7.0mm

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:

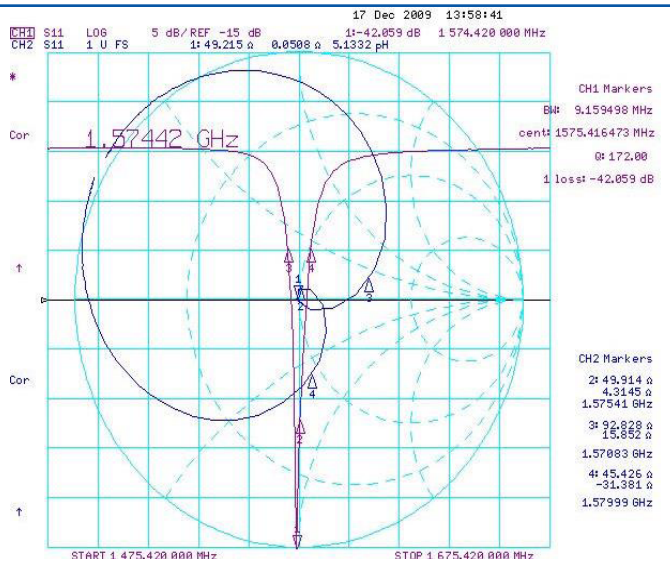
Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		1575.42± 1.02		MHz	
Bandwidth	5			MHz	
Gain		2.0		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)

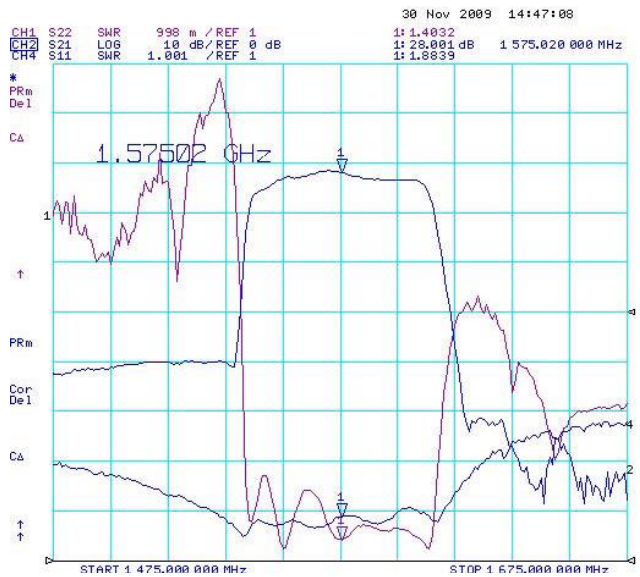
Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		1575.42± 1.02		MHz	
DC Voltage	2.50		3.50	V	
Gain		28		dB	(Without cable +25˚C± 10˚C)
Output VSWR		1.5			
Noise Figure		1.3			(+25˚C± 10˚C)
DC current		10.0		mA	(At 3.0V)

SMITH CHART



Test Condition: 18x18mm Ground

GPS LNA GAIN PLOT

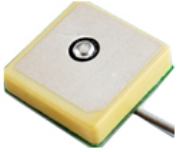


Test Condition: 3.0V DC

GPS Active Internal Patch

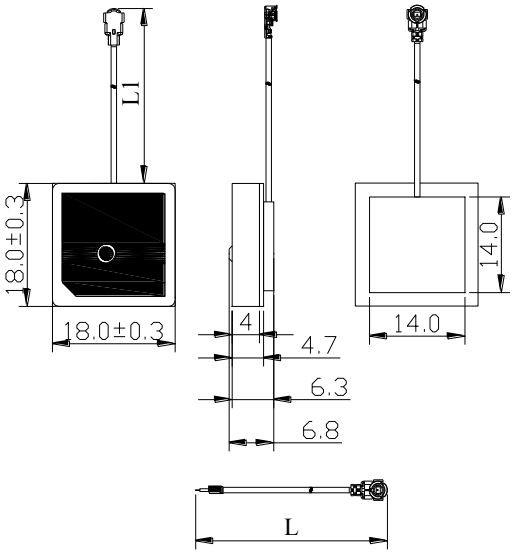
APAM1866YA18

RoHS/RoHS II compliant



18.0 x 18.0 x 7.0mm

OUTLINE DIMENSION:



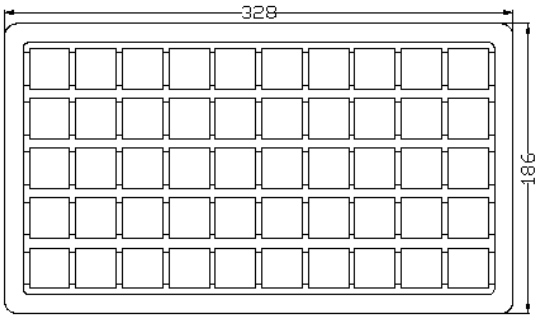
Tolerance: ±0.2mm

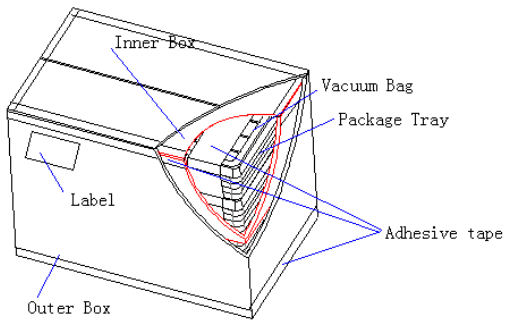
Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	9851SC0032-002, φ1.13±0.1mm, L1=200mm, L=205mm
RF Connector	I-PEX
Thickness	7.0mm (Max)

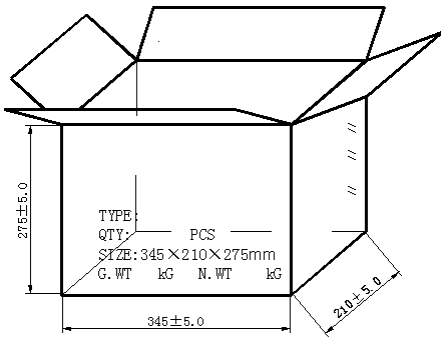
Unit: mm

PACKAGING

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







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