

# GPS Active Internal Patch

## APAM1568YE15V2.0

RoHS/RoHS II compliant

MSL level: N/A



15.0 x 15.0 x 6.8mm

### 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:

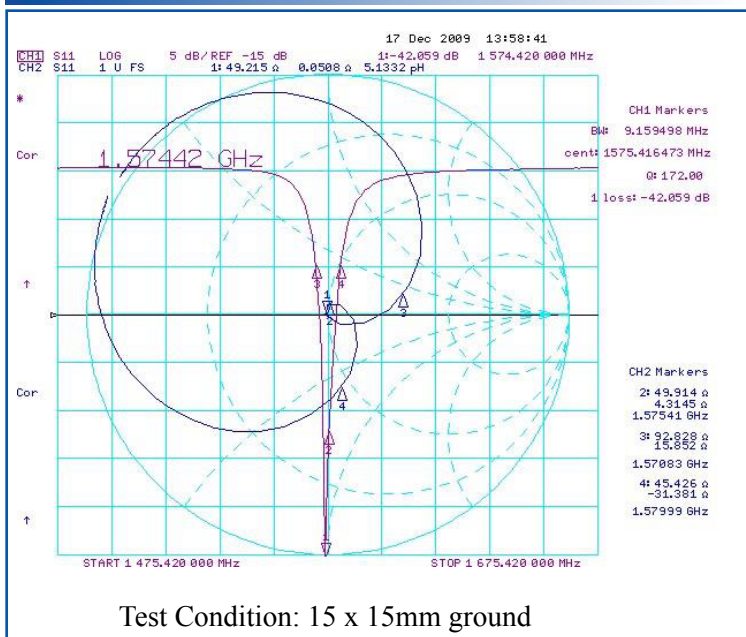
#### Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42± 1.02			MHz	
Bandwidth	5			MHz	
Gain		1.5		dBic	(Peak gain on 70*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	

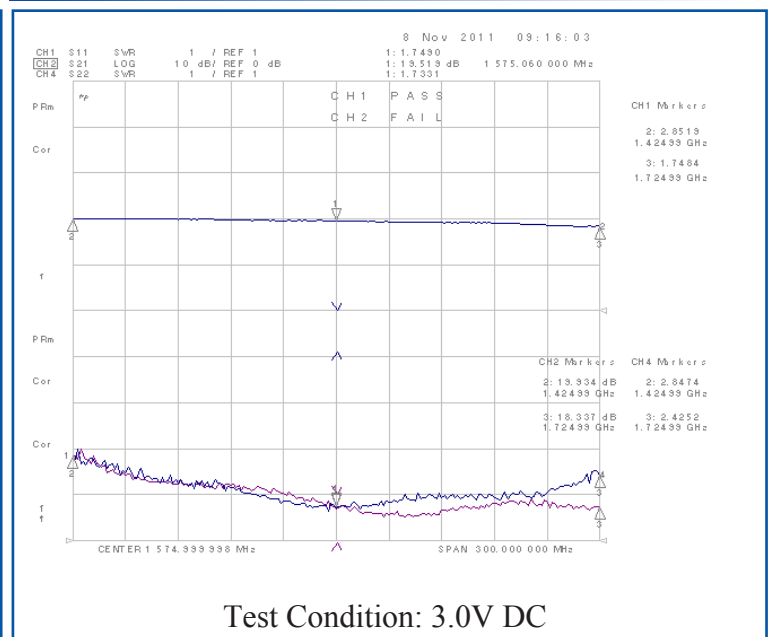
#### Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42± 1.02			MHz	
DC Voltage	2.70		3.30	V	
Gain		18		dB	(Without cable +25°C± 10°C)
Output VSWR		1.5			
Noise Figure		1.5			(+25°C± 10°C)
DC current		3.5		mA	(At 3.0V)

### SMITH CHART



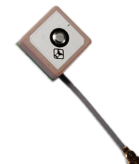
### GPS LNA GAIN PLOT



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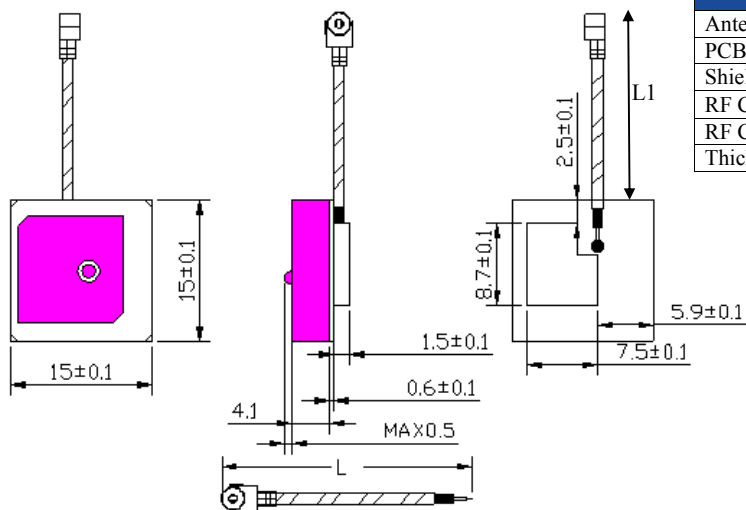
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## OUTLINE DIMENSION:



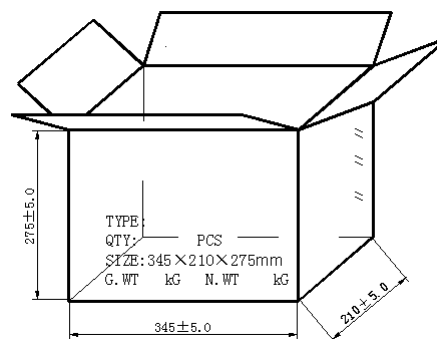
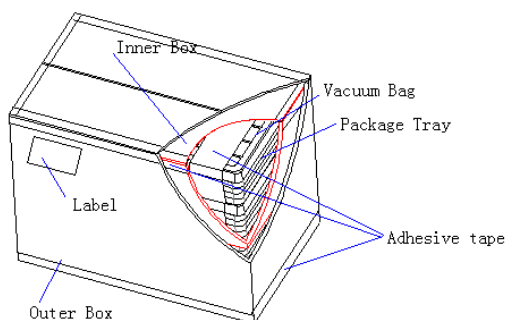
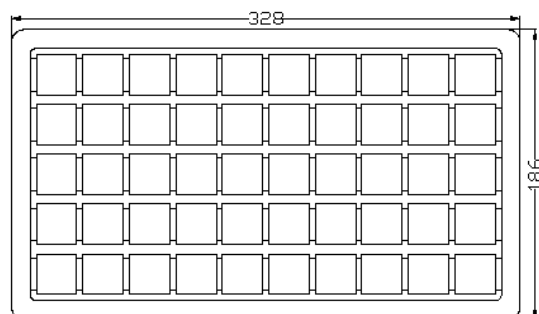
Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	φ0.81±0.1mm, L1=30±2mm, L=36±2mm
RF Connector	I-PEX
Thickness	6.8mm Max

Tolerance: ±0.2mm

Unit: mm

## 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



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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