

# GPS Active Internal Patch

## APAM1268JL02V2.0

RoHS/RoHS II compliant  
MSL level: N/A

12.0 x 12.0 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:

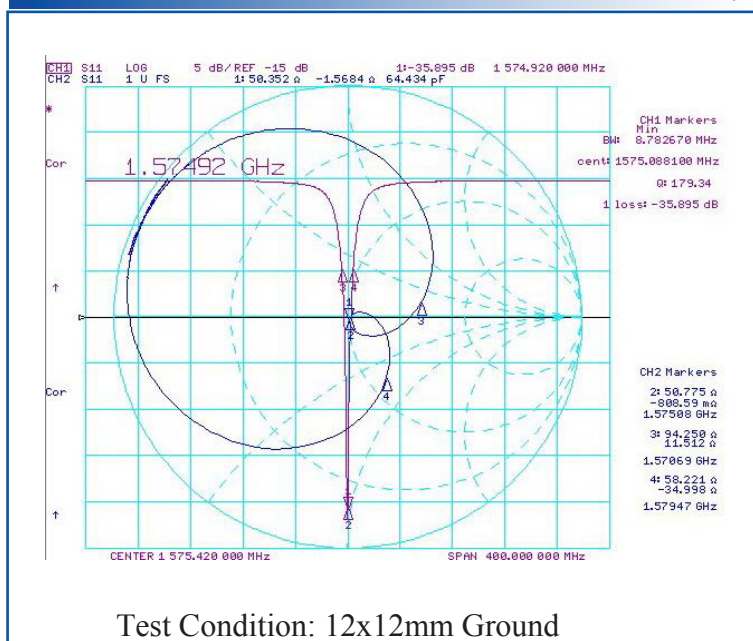
#### Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42± 1.02			MHz	
Bandwidth	5			MHz	
Gain		0.0		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	

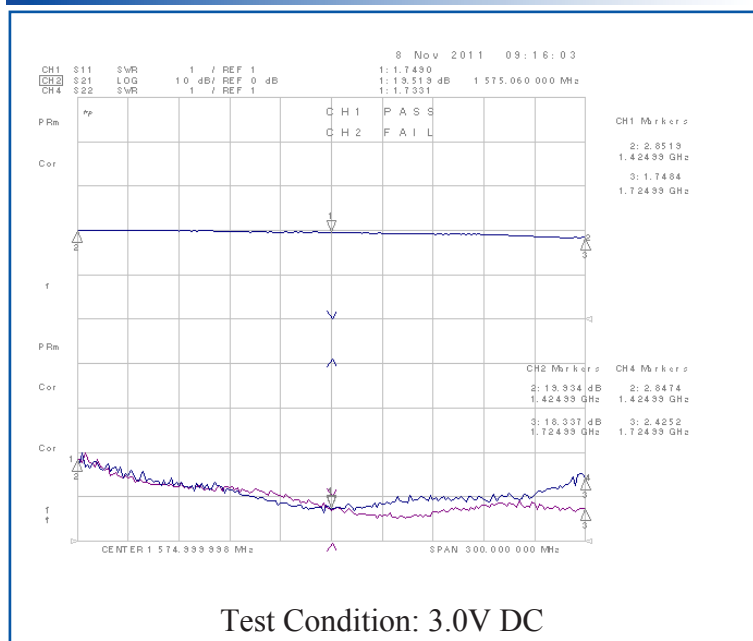
#### Low Noise Amplifier (LNA)

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		2.0			
Noise Figure		1.5			(+25°C± 10°C)
DC current		3.5		mA	(At 3.0V)

### SMITH CHART



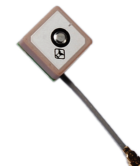
### GPS LNA GAIN PLOT



# GPS Active Internal Patch

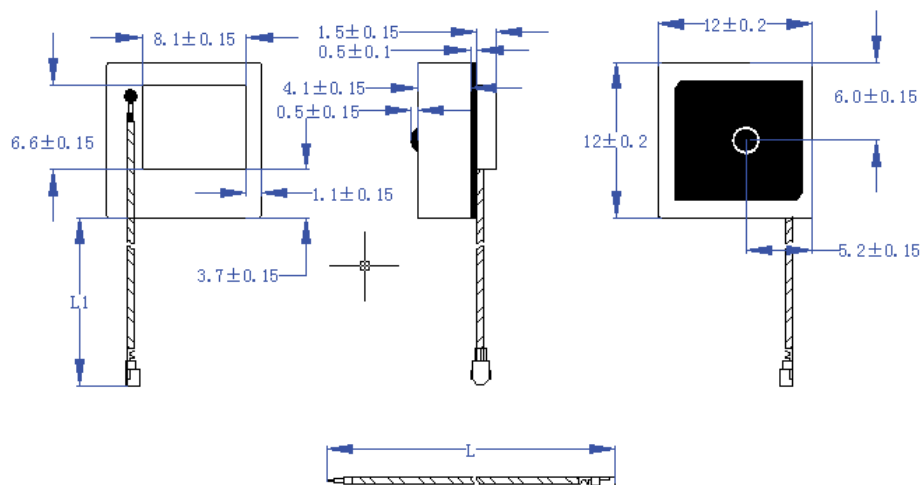
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## OUTLINE DIMENSION:

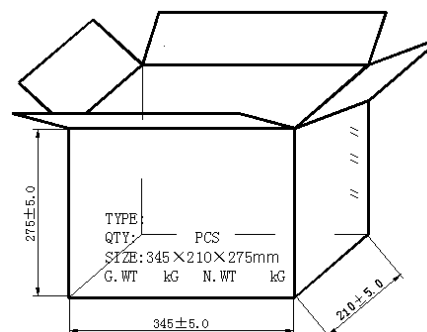
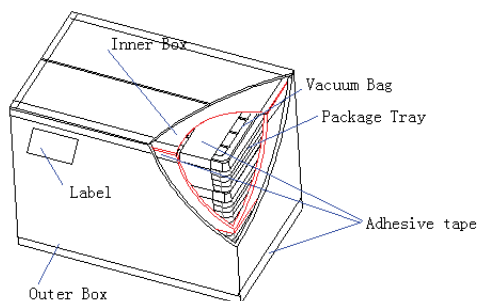
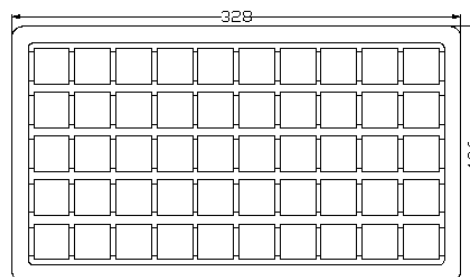


Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	$\phi 0.81 \pm 0.1$ mm, $L1 = 13 \pm 2$ mm, $L = 22$ mm
RF Connector	I-PEX
Thickness	6.8mm Max

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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5101 Hidden Creek Lane Spicewood TX 78669  
Phone: 512-371-6159 | Fax: 512-351-8858  
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