

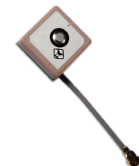
GPS Active Internal Patch

APAM1368YB13V3.0

RoHS/RoHS II compliant

MSL level: N/A

13.0 x 13.0 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:

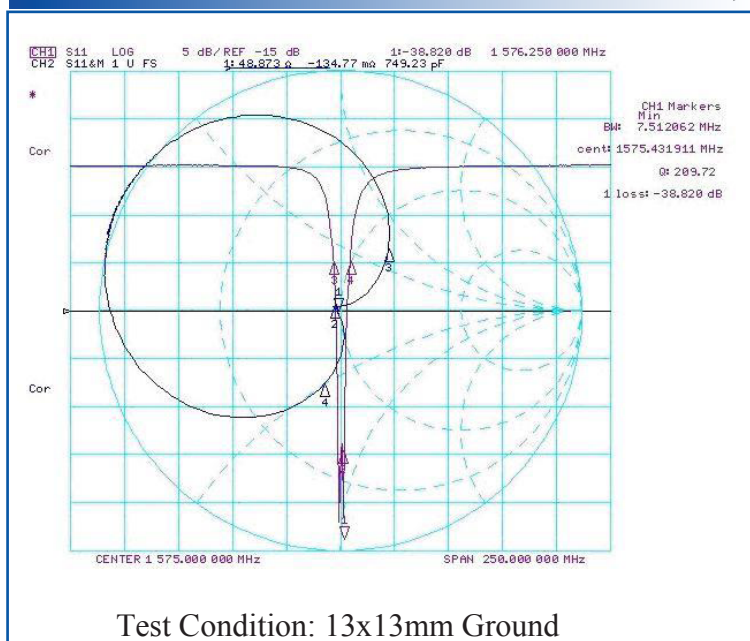
Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42± 1.02			MHz	
Bandwidth	5			MHz	
Gain		1.0		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	

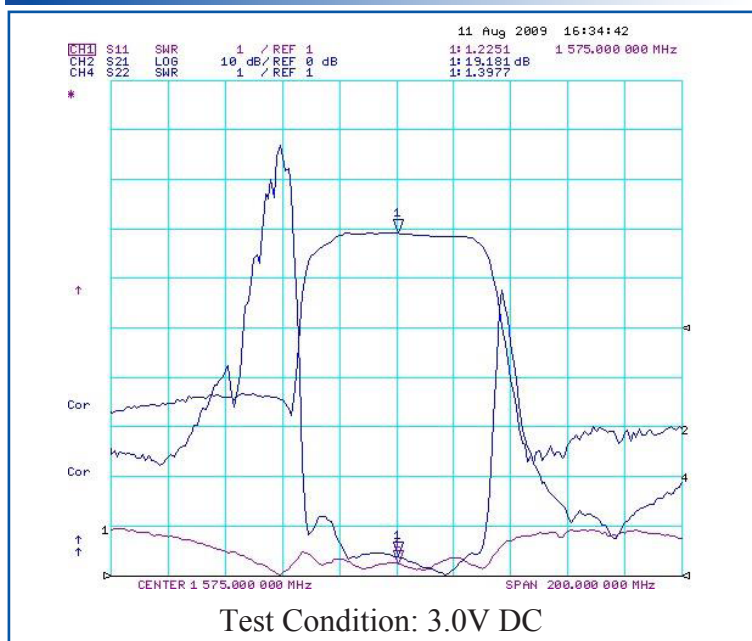
Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42± 1.02			MHz	
DC Voltage	2.70		3.30	V	
Gain		19		dB	(Without cable +25°C± 10°C)
Output VSWR		1.5			
Noise Figure		1.3			(+25°C± 10°C)
DC current		3.5		mA	(At 3.0V)

SMITH CHART



GPS LNA GAIN PLOT



GPS Active Internal Patch

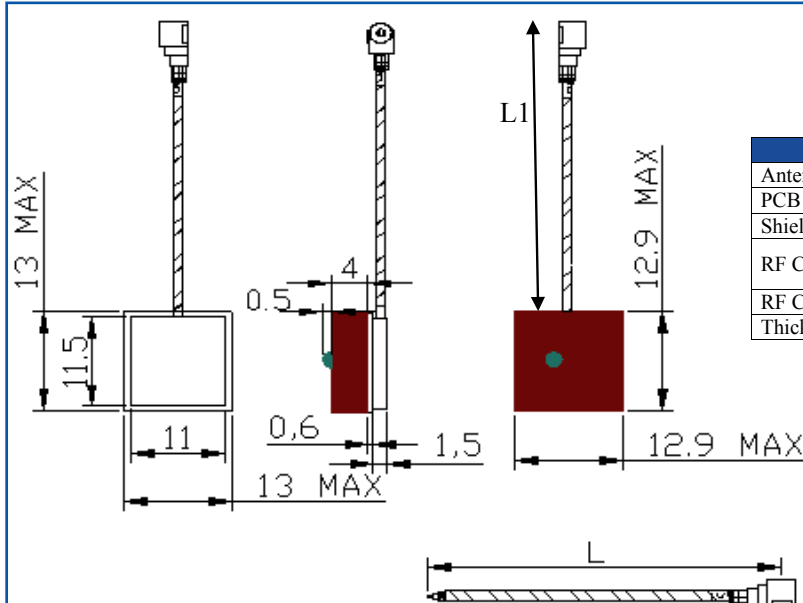
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OUTLINE DIMENSION:



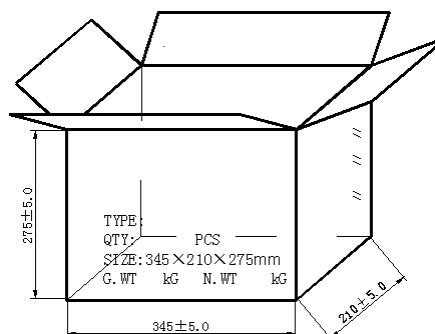
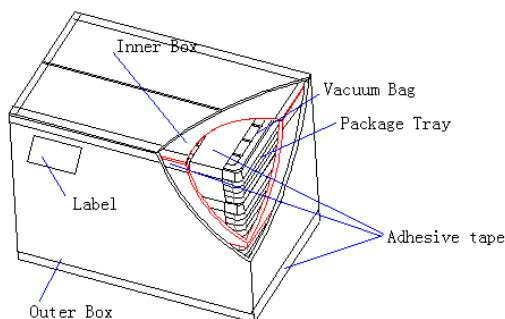
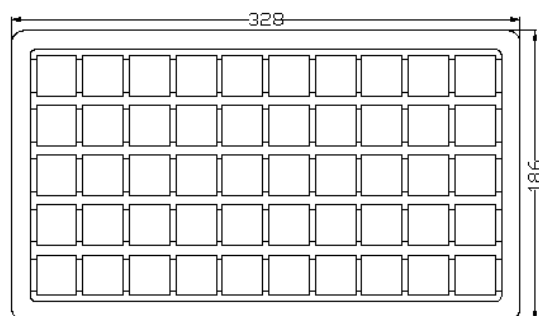
Tolerance: $\pm 0.2\text{mm}$

Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	9851SC0032002, $\phi 0.81 \pm 0.1\text{mm}$, $L1 = 22 \pm 2\text{mm}$, $L = 26 \pm 2\text{mm}$
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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REVISED: 08.03.2018

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