GPS Active Internal Patch

APAM1268JL02V2.0

ESD Sensitive

RoHS/RoHS II compliant



12.0 x 12.0 x 6.8mm

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:

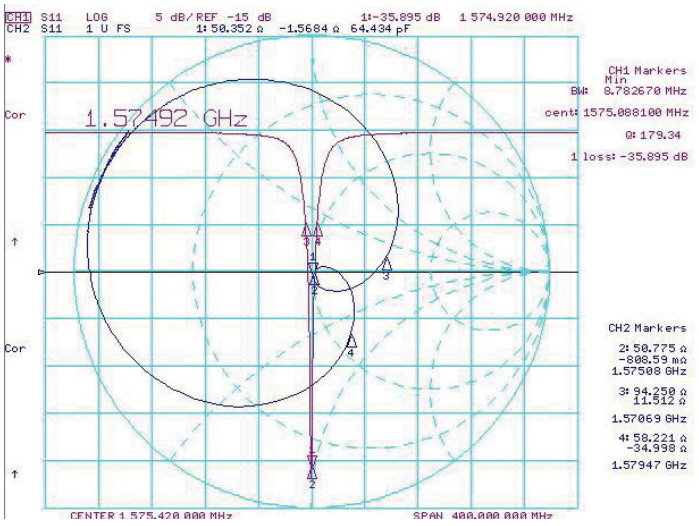
Antenna

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

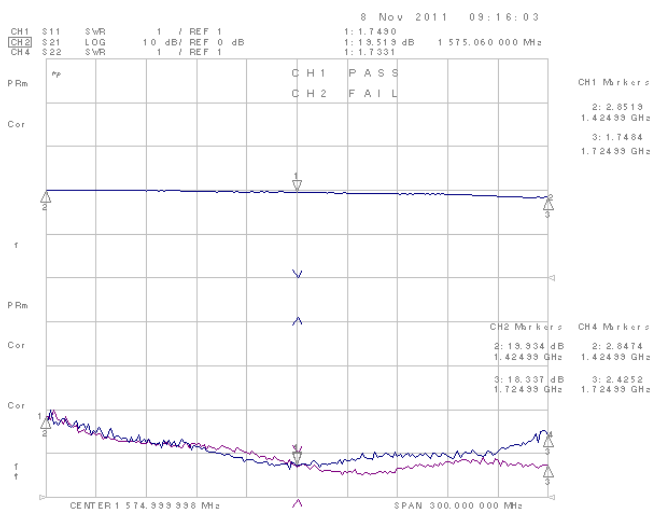
Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency		1575.42± 1.02		MHz	
DC Voltage	2.70		3.30	V	
Gain		18		dB	(Without cable +25˚C± 10˚C)
Output VSWR		2.0			
Noise Figure		1.5			(+25˚C± 10˚C)
DC current		3.5		mA	(At 3.0V)

SMITH CHART



Test Condition: 12x12mm Ground

GPS LNA GAIN PLOT



Test Condition: 3.0V DC

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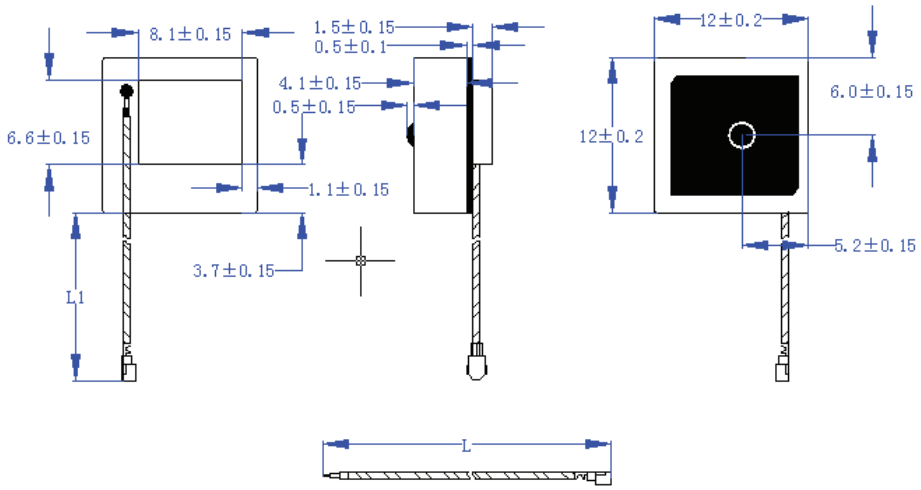
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OUTLINE DIMENSION:

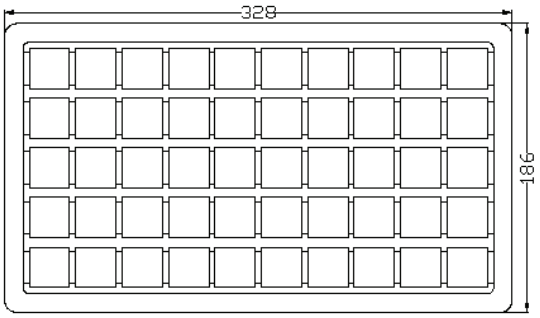


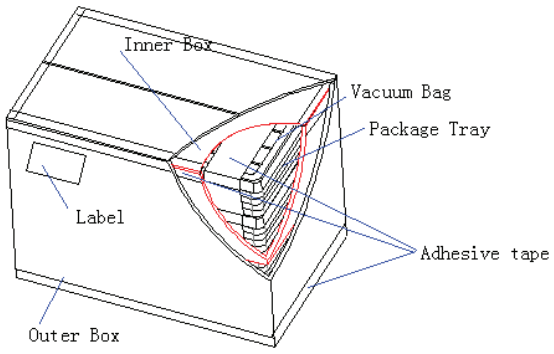
Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	φ0.81±0.1mm, L1=13±2mm, L=22mm
RF Connector	I-PEX
Thickness	6.8mm Max

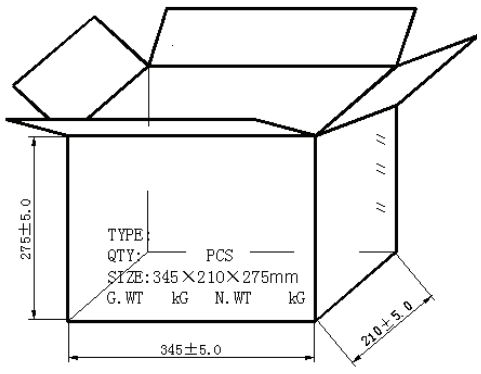
Unit: mm

PACKAGING:

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







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