GPS Active Internal Patch

APAM1348YD13V2.0



RoHS/RoHS II compliant



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:

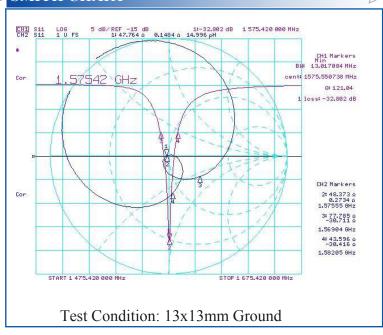
Antenna

Parameters	Min.	Тур.	N	Iax.	Units	Note
Center Frequency	157	1575.42±1.02			MHz	
Bandwidth	5				MHz	
Gain		1.0			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	

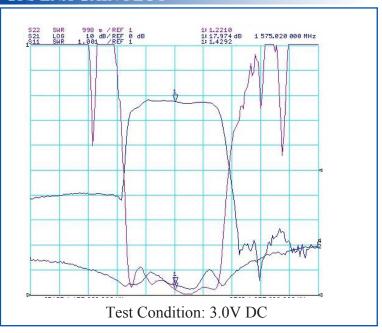
Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1	1575.42 ± 1.02			
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







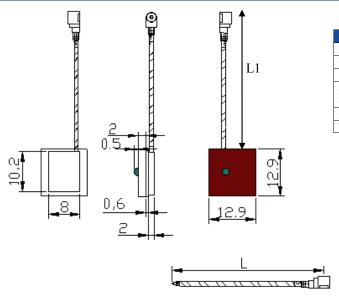
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OUTLINE DIMENSION:



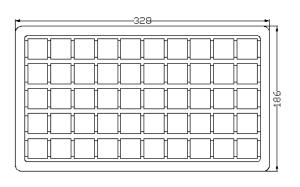
Tolerance: ±0.2mm

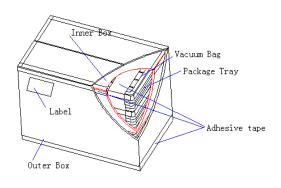
Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	9851SC0032-002, φ0.81±0.1mm,
	L1=33±3mm, L=37±3mm
RF Connector	I-PEX
Thickness	5.6mm Max

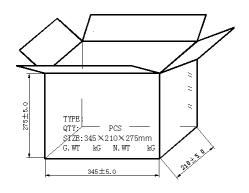
Unit: mm

PACKAGING

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







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