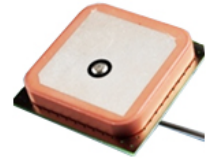


# GPS Active Internal Patch

## APAM2764YK0175

RoHS/RoHS II compliant



27.0 x 27.0 x 7.0mm

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:

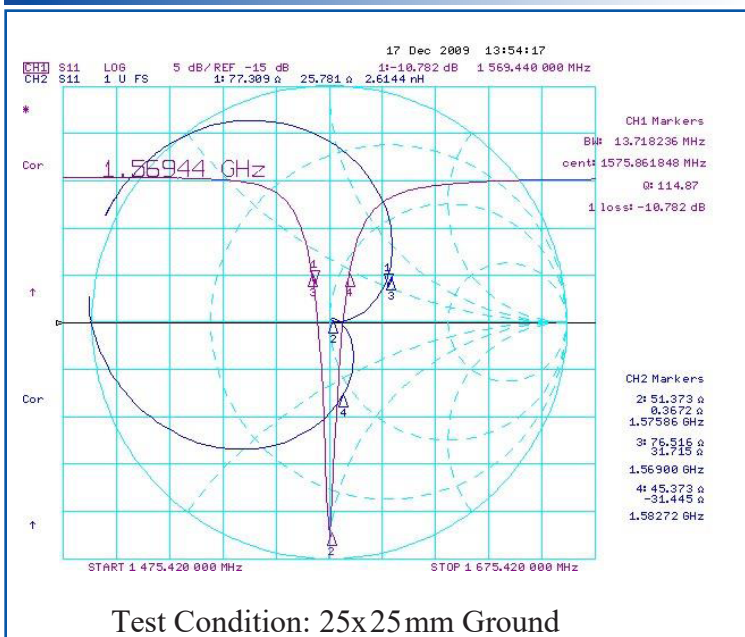
#### Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42±1.02			MHz	
Bandwidth	5			MHz	
Gain		2.5		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	
Frequency Temperature Coefficient	-10		10	ppm/°C	
Working Temperature	-25		+72	°C	
Storage Temperature	-45		+85	°C	

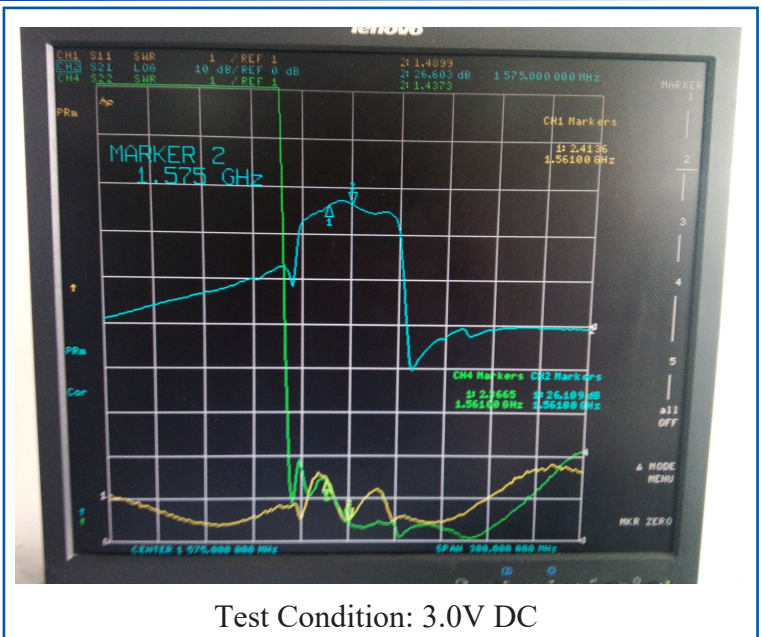
#### Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42±1.02			MHz	
DC Voltage	2.7		3.3	V	
Gain		28		dB	(Without cable +25°C± 10°C)
Output VSWR			2.0		
Noise Figure		1.3			(+25°C± 10°C)
DC current		9.8		mA	(At 3.0V)

### SMITH CHART



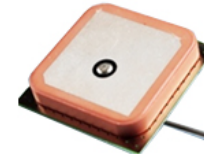
### GPS LNA GAIN PLOT



# GPS Active Internal Patch

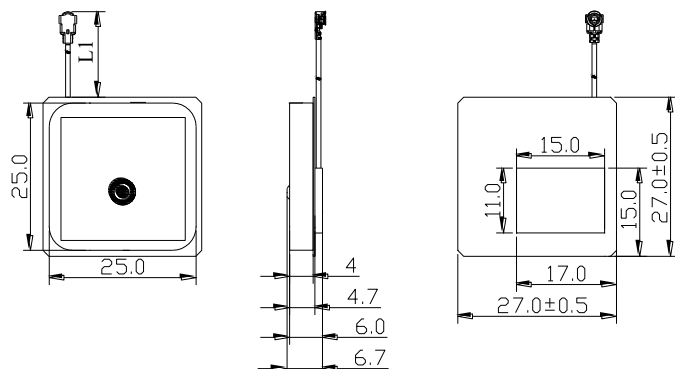
APAM2764YK0175

RoHS/RoHS II compliant



27.0 x 27.0 x 7.0mm

## OUTLINE DIMENSION:



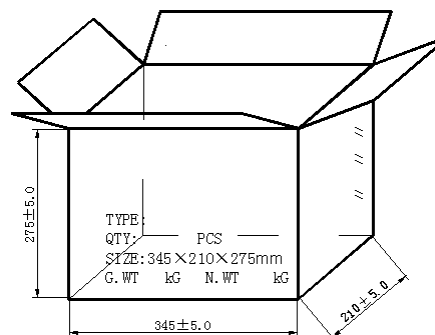
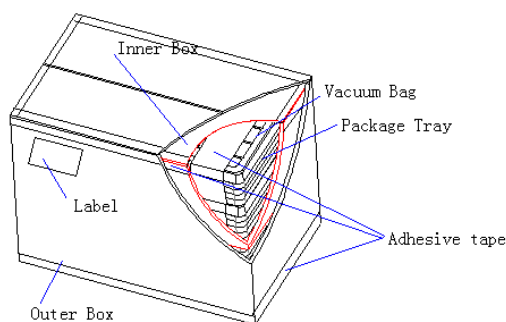
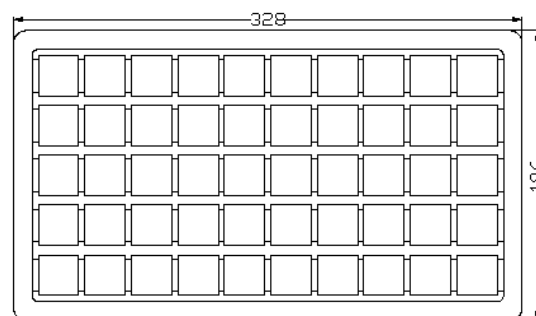
Tolerance:  $\pm 0.2\text{mm}$

Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	9851SC0032-002, $\phi 1.13 \pm 0.1\text{mm}$ , L=50mm, L1=36mm
RF Connector	I-PEX
Thickness	7.0mm (Max)

Unit: mm

## PACKAGING

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



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