# GPS+GSM Active Antenna Module-Screw mount plus adhesive tape.

## APAMS-106

RoHS/RoHS II compliant Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-I)



**MSL level: Not Applicable** 

### **FEATURES:**

- Dual Band
- High Reliability/Sensitivity
- · Compact Size, Easy to install
- ROHS Compliant

### **▼ TYPICAL APPLICATIONS:**

- GPS navigation
- Vehicle tracking
- Telemetry Applications
- Asset tracking
- Emergency call systems

### > STANDARD SPECIFICATIONS:

#### Antenna

Parameters	Min.	Тур.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
Bandwidth	10.0			MHz	
VSWR			1.5:1		
Polarization Model		RHCP			(Right Hand Circular Polarization)
Impedance		50		Ω	
Gain		5		dBic	(Based on 70× 70mm ground plane)
Operating Temperature	-40		+80	°C	
Storage Temperature	-45		+85	°C	

### Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
DC Voltage	2.5	3.0	3.5	V	
Gain	25	26	28	dB	(Without cable +25°C± 10°C)
Output VSWR			2.0		
Noise Figure			1.5		$(+25^{\circ}\text{C} \pm 10^{\circ}\text{C})$
DC current		10.5	12.5	mA	

### **Electrical Characteristics (GSM)**

Parameters	Min.	Тур.	Max.	Units	Note
Working Frequency	806		960	MHz	
	1710		1880		
Peak Gain			-1	dBi	(@900MHZ)
			1		(@1800MHZ)
VSWR			2:1		
Impedance		50		Ω	
Azimuth	Omni-Directional				
Polarization	Linear Polarization				





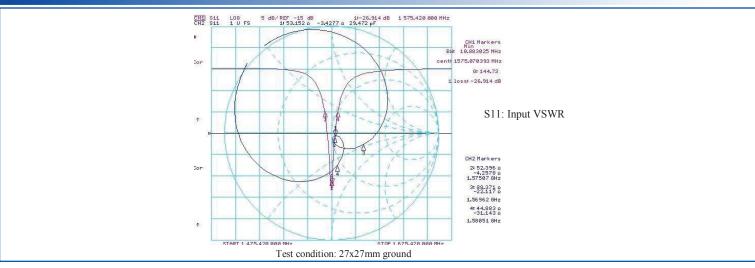
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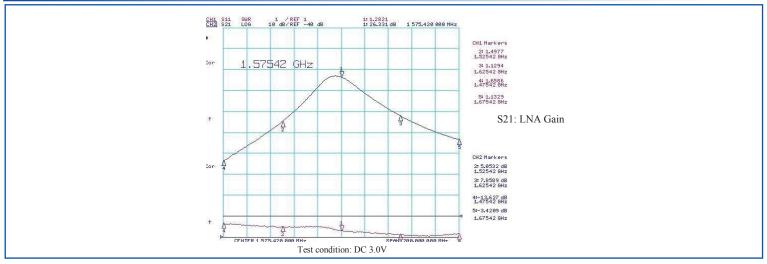
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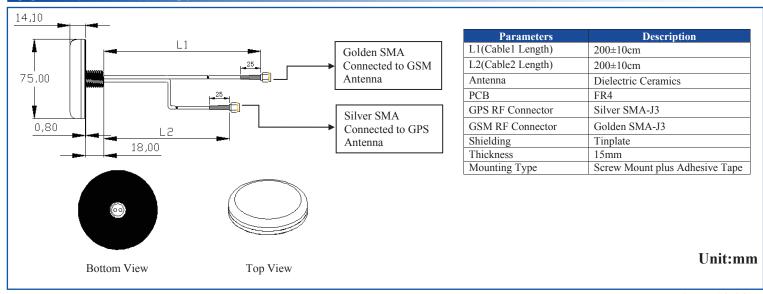
### > ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



#### LNA REFLECTION PROFILE



### **OUTLINE DRAWING:**







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### **PRODUCT IMAGE:**



### > PACKAGING:

Each 450 x 400 x 300mm size carton includes 60 pieces of antenna





#### **CAUTION:**

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please insure the component is thoroughly evaluated in the application circuit.

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