



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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GPS+GSM Active Antenna Module- Adhesive Mount

APAMS-105

RoHS/RoHS II compliant

Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-1)



Ø76.8 x 15.8mm

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.	Typ.	Max.	Units	Note
Center Frequency	1574.40	1575.42	1576.44	MHz	
Bandwidth	10.0			MHz	
VSWR at Center Frequency			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°C ± 10°C)
DC current		10.5	12.5	mA	(At 3.0V)

Electrical Characteristics (GSM)

Parameters	Min.	Typ.	Max.	Units	Note
Working Frequency	806		960	MHz	
	1710		1880	MHz	
V.W.S.R			2:1		
Impedance		50		Ω	(without cable +25°C ± 10°C)
Peak Gain			-1	dB _i	(At 900)
			1	dB _i	(At 1800)
Azimuth	Omni Directional				
Polarization	Linear Polarization				

GPS+GSM Active Antenna Module- Adhesive Mount

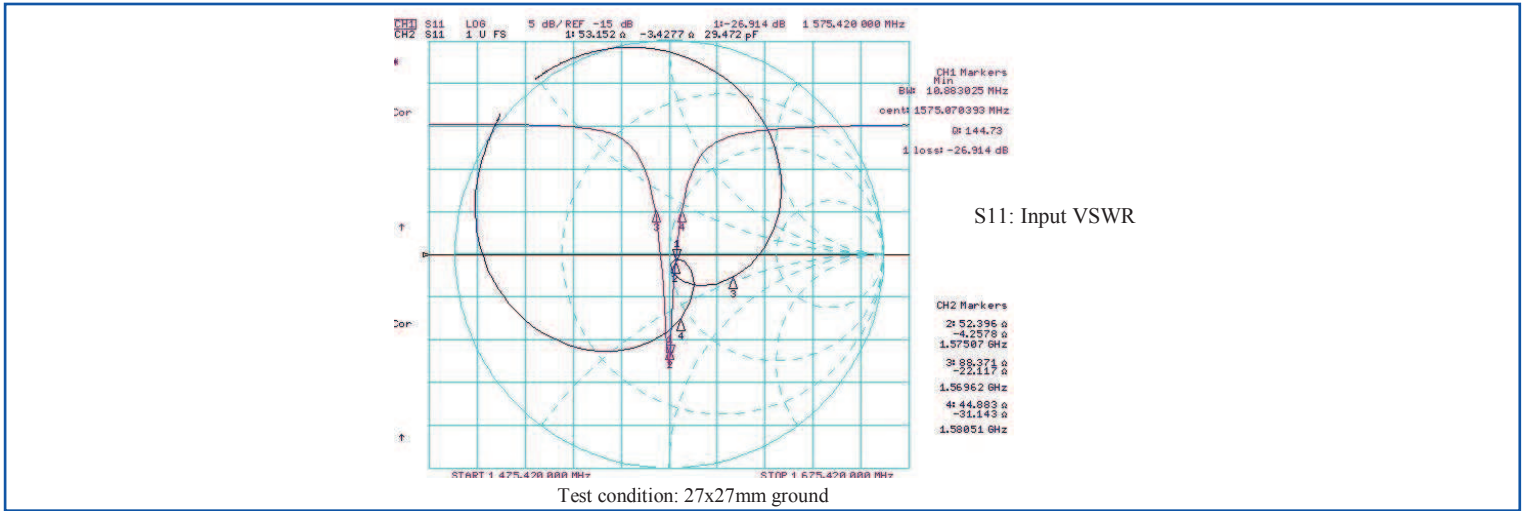
APAMS-105

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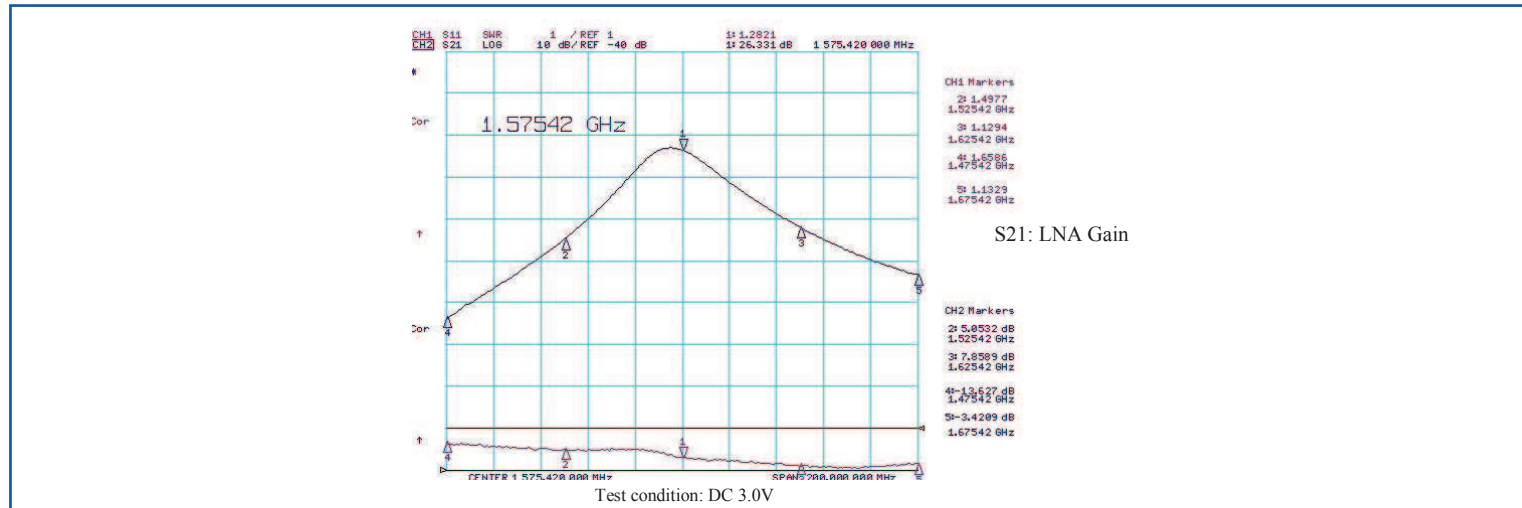


Ø76.8 x 15.8mm

ANTENNA'S IMPEDANCE AND RETURN-LOSS CHARACTERISTICS



LNA REFLECTION PROFILE



OUTLINE DRAWING:

Bottom View

Side View

Top View

UP TO SKY

double adhesive tape

2.5 ± 0.3

Parameters	Description
L1 (Cable1 Length)	300±10cm
L2 (Cable2 Length)	300±10cm
Antenna	Dielectric Ceramics
PCB	FR4
GPS RF Connector	SMA-J3
GSM RF Connector	FME-k3
Shielding	Tinplate
Thickness	15.8mm
Mounting Type	Adhesive Tape

Unit:mm

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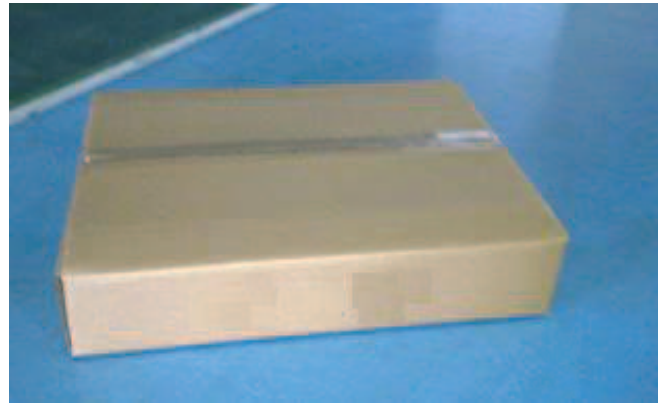
Ø76.8 x 15.8mm

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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