



<b>PART NO.</b>	AT5050-71-108-C	<b>ISSUED DATE</b>	2011.10.11	<b>PUBLISHED BY</b>
<b>PRODUCT NAME</b>	GPS 外接天線	<b>VERSION</b>	V01	
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## SPECIFICATION

**PART NO.** : AT5050-71-108-C

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**PRODUCT NAME** : GPS 外接天線

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**DESCRIPTION** : 3V/15.5mA/28dB/RG174/3M( L )SMA  
STR male(gold) ( Typical Value )

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### REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	DESIGNED	APPROVED
V01	2011.10.11	All	新制訂	Allen	TY	Frank

<b>Prepared By</b>	<b>Designed By</b>	<b>Approved By</b>



# Amphenol Taiwan Corporation

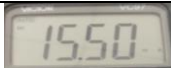
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## 一、Electrical Characteristics

### 1.1 Antenna

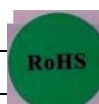
1	Antenna model	DAS1575 ( 18*18*4 )
2	Frequency Range	1575.42MHz±1.02 MHz
3	V.S.W.R	1.5:1
4	Band Width	> 10 MHz
5	Impedence	50 ohm
6	Gain	3.5dBic Based on 7×7cm ground plane
7	Polarization	RHCP

### 1.2 LNA

1	Frequency Range	1575.42MHz±1.02 MHz
2	DC Voltage	3±0.3V
3	Gain ( Typical )	28dB ( +25°C±10°C)
4	Output VSWR ( Typical )	1.5
5	Noise Figure ( Typical )	2.0(+25°C±10°C)
6	DC current ( Typical )	15.5mA(At3.0V) 

## 二、Material

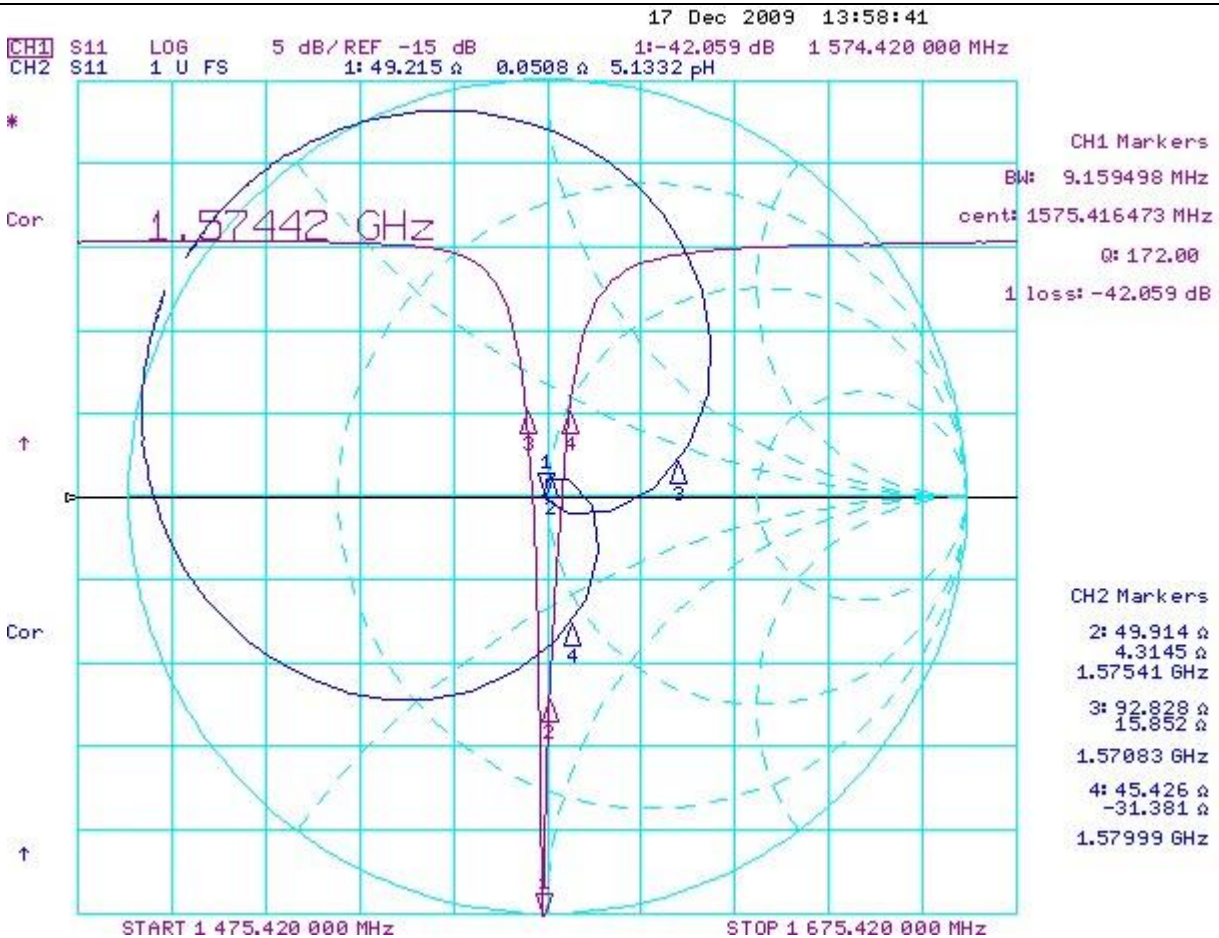
No	Part Name	SPEC
1	Antenna	Dielectric Ceramics
2	PCB	FR4
3	Shielding	Tinplate
4	RF Cable	RG174
		L=300±10CM
5	RF Connector	SMA-J3
6	Thickness ( Typical )	13.5mm





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### 三、Patch Test curve

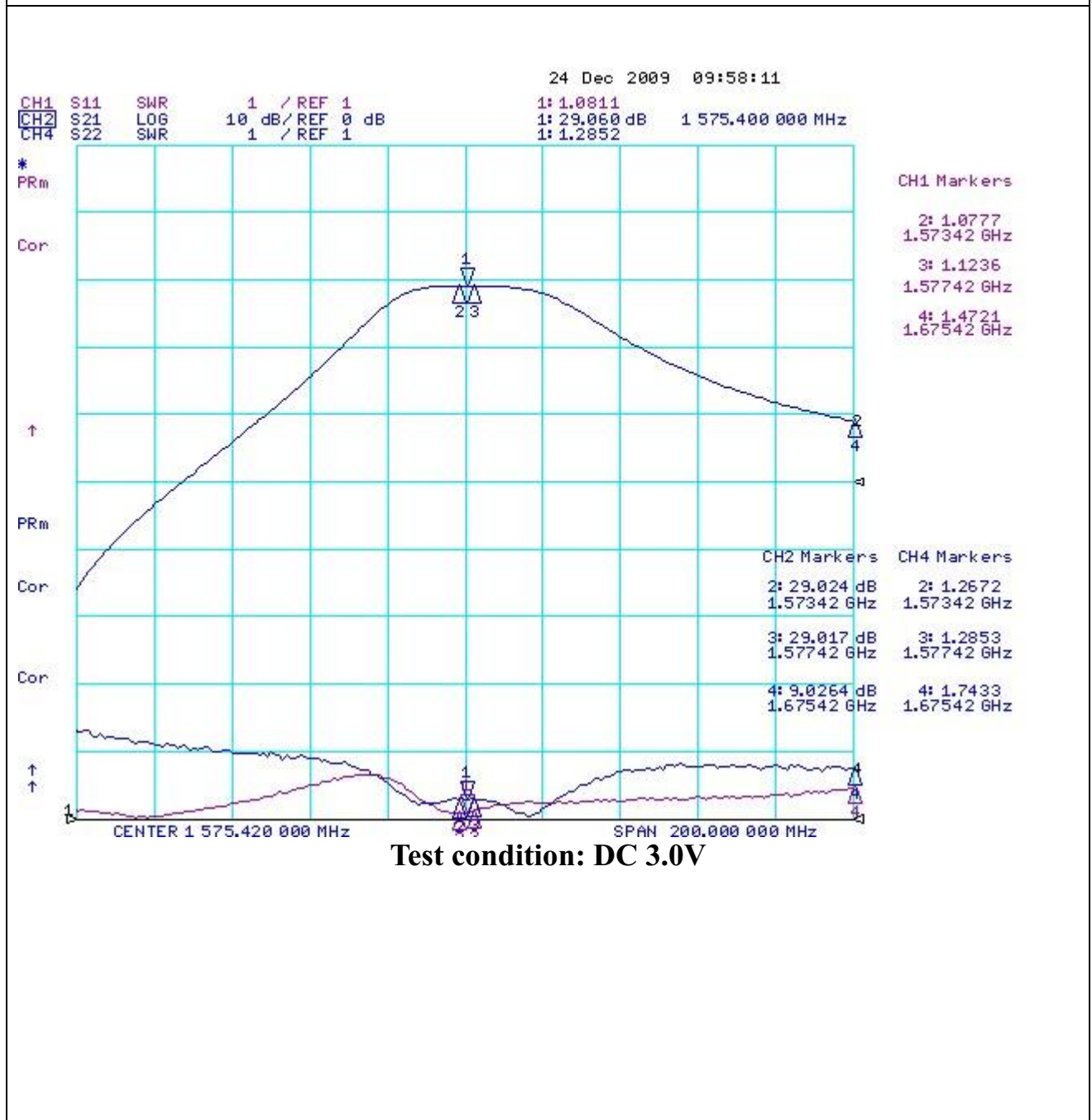


**Test condition: 20x20mm ground**



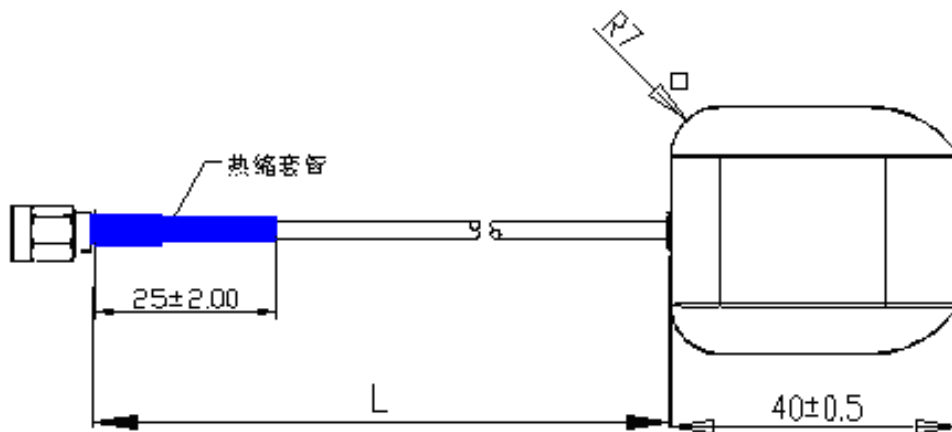
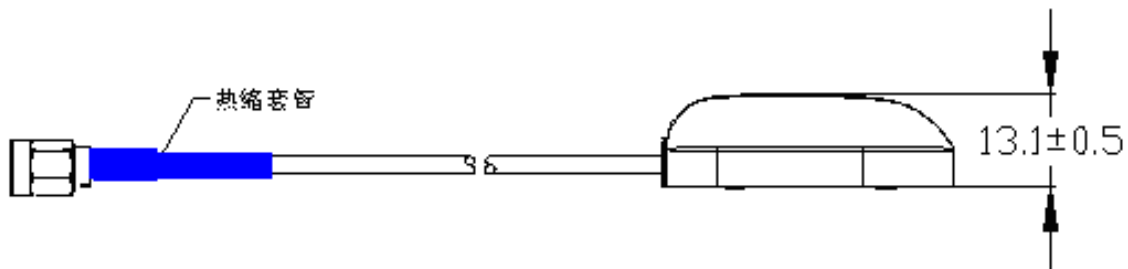
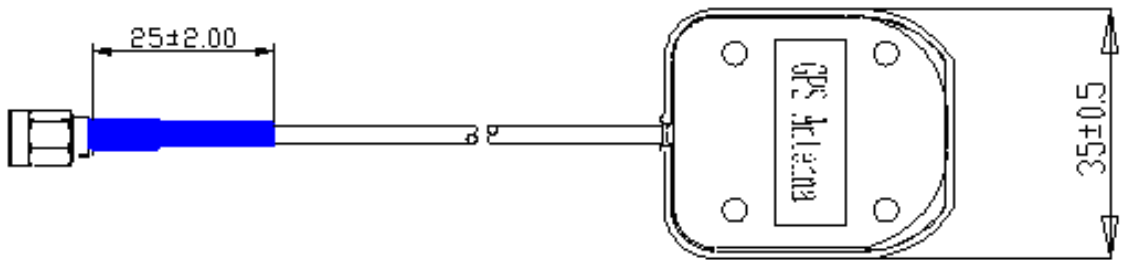
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## 四、Lna Test curve



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## 五、Structure





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## 六、 Environment Condition

1	Working Temp	-25°C~+65°C
2	Storage Temp	-45°C~+85°C
3	Water Proof	Deep into water 50cm, half hour
4	Vibration	Sine sweep 1g(0-p)
		10~55~10Hz each axis

## 七、 Notes

Electrostatic sensitive device, Observe precautions for handling.



## 八、 Packing

Each carton includes 100 PCS antenna · 2 layers per carton · Each inbox put 1PCS antenna, the size of carton is 500 \* 260 \* 250 mm.