

## APPROVAL SHEET

<b>PRODUCT NAME</b>	<b>CUSTOMER APPROVED BY</b>
DAM1575A4X4_JW5M	
<b>CUSTOMER NAME OR MODEL</b>	<b>APPROVED DATE</b>

### SPECIFICATION

**Product Name:** DAM1575A4X4\_JW5M  
**Description:** 2.7~5V/10mA(at 3V)/27dB/500cm  
 (Typical Value)

### VERSION INFORMATION

VERSION	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2010/06/29	NEW ISSUED	Mark Yan	Sheng Gao	Garvin Ge

RoHS Compliant Parts

**NOTE:**

1. When to change the electrical performance index, have to change the relevant version the same time.(As to change V1.0 into V2.0、V3.0.....);
2. When to change the testing mothed(including the reliability testing conditions),or to change the operation condition, have to add number to present version(As to change the V1.0 into V1.1, V1.2.....).

<b>PREPARED BY</b>	<b>CHECKED BY</b>	<b>APPROVED BY</b>
Mark Yan	Sheng Gao	Garvin Ge

## PRODUCT SPECIFICATION

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<b>Prepared by</b>	<b>Checked by</b>	<b>Approved by</b>
Mark Yan	Sheng Gao	Garvin Ge

### 1. Electrical Characteristics

#### 1.1 Antenna

1	Antenna model	DAS1575(25*25*4)
2	Frequency Range	1575.42MHz±1.023 MHz
3	V.S.W.R	1.5:1
4	Band Width	> 10 MHz
5	Impedence	50 ohm
6	Gain	5dBic Based on 70×70mm ground plane
7	Polarization	RHCP

#### 1.2 LNA

1	Frequency Range	1575.42MHz±1.023 MHz
2	DC Voltage	3.0~5.0V
3	Gain (Typical)	27±2dB (Without cable +25℃ ±10℃)
4	Output VSWR (Typical)	2.0
5	Noise Figure (Typical)	1.3 (+25℃ ±10℃, at 1.3V)
6	DC current (Typical)	10mA(At 3.0V)

### 2. Material

No	Part Name	SPEC
1	Antenna	Dielectric Ceramics
2	PCB	FR4
3	Shielding	Tinplate
4	RF Cable	RG174
		L=500±10cm
5	RF Connector	MCX
6	Thickness	About 15mm

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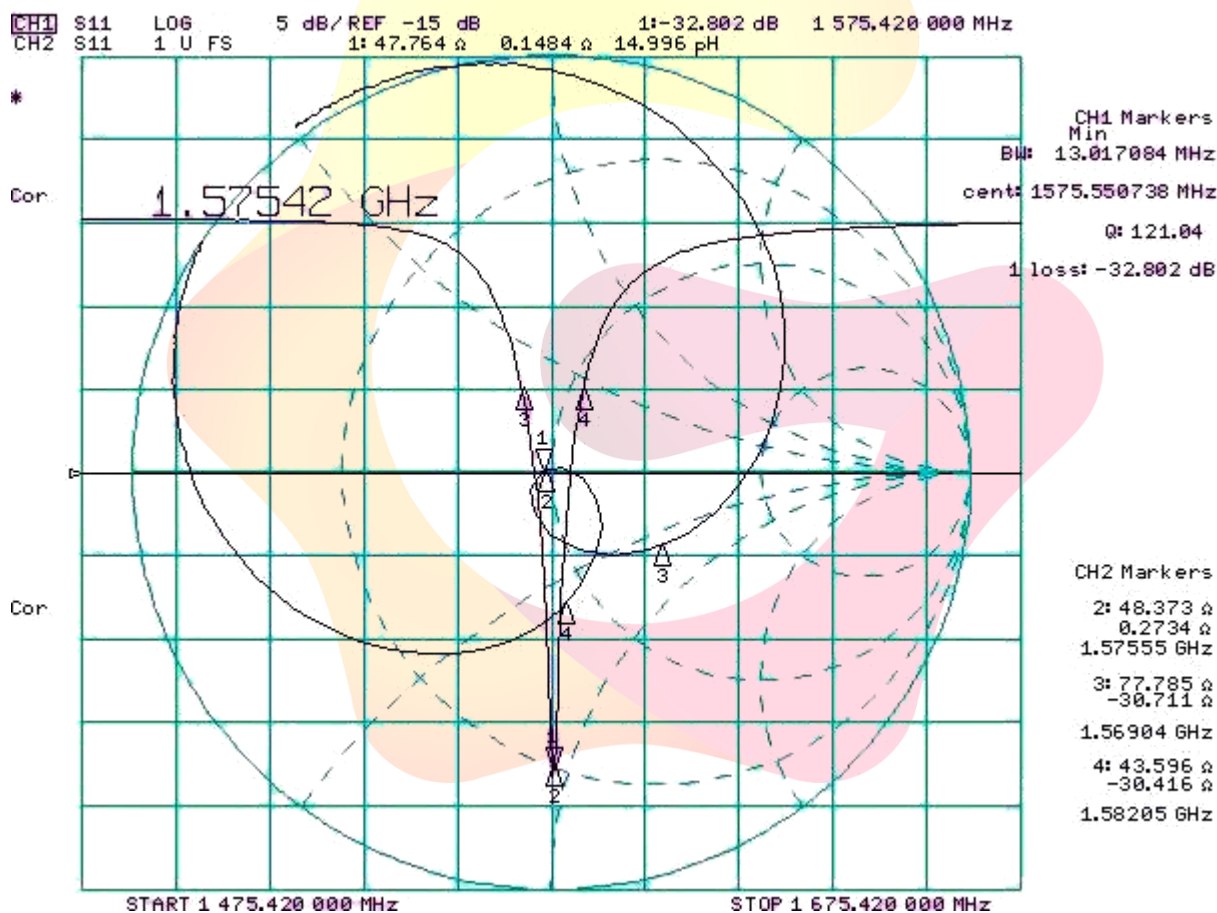
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### 3. Smith chart of patch antenna



Test condition: 70x70mm ground

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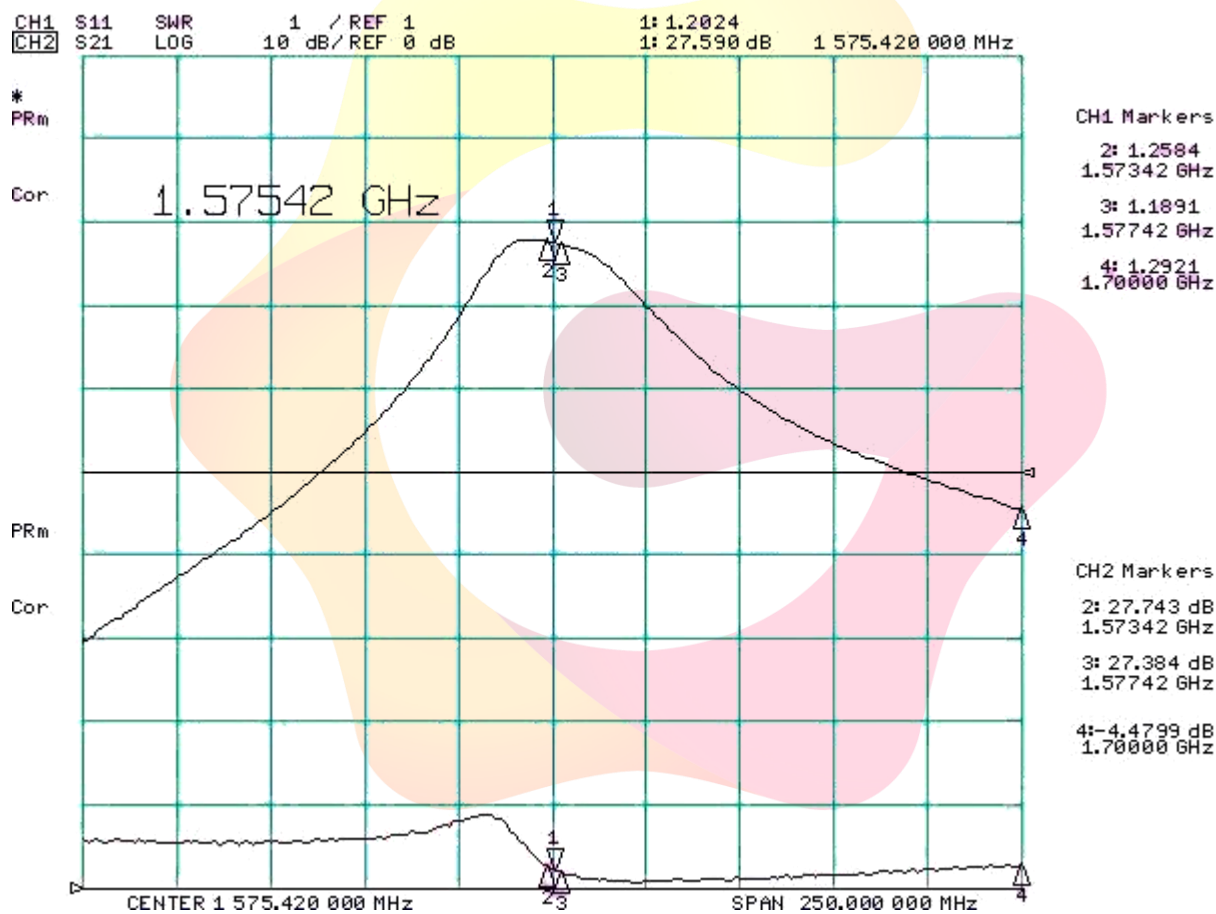
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#### 4. LNA testing curve (Testing condition: DC 3.0V)

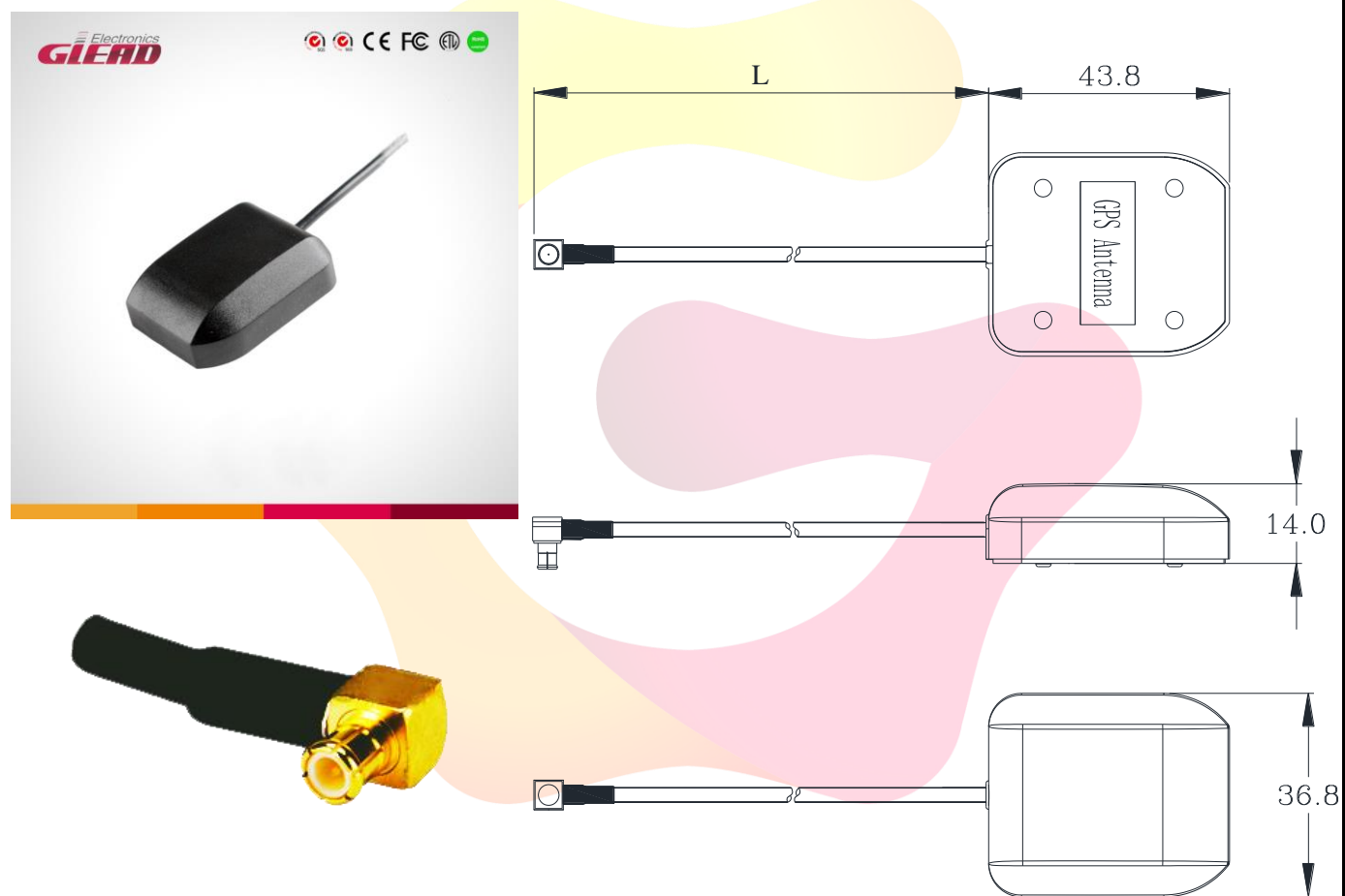


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## 5. Structure and reference picture



**Tolerance:  $\pm 0.5$**

**Unit: mm**

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### 6. Environment Condition

1	Working Temp	-40℃~+80℃
2	Storage Temp	-45℃~+85℃
3	Vibration	Sine sweep 1g(0-p)
		10~55~10Hz each axis

### 7. Notes

1. Electrostatic sensitive device, Observe precautions for handling. 
2. This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
3. The product will get free warranty for three months since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.

### 8. Packing

Each pearl cotton box includes 1 PCS antenna and 1 set accessories the size of box is 370 \* 300 \* 100 mm.



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