

JIAXING GLEAD ELECTRONICS CO.,LTD.

APPROVAL SHEET

PRODUCT NAME	CUSTOMER APPROVED BY
DAMGN4X1_J5M	
CUSTOMER NAME OR MODEL	APPROVED DATE

SPECIFICATION

Product Name: DAMGN4X1_J5M

Description: 2.8-5V/13.5mA/30dB/500cm (L) /SMA-J3
(Typical Value)

VERSION INFORMATION

VERSION	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2012.04.12	NEW ISSUED			

PREPARED BY	CHECKED BY	APPROVED BY

PRODUCT NAME	Prepared date	Page
DAMGN4X1_J5M	2012. 04. 12	2/7
Prepared by	Checked by	Approved by
Shen jie	Yan wen li	Gao sheng

2、Electrical Characteristics

2.1 Antenna

1	Antenna model	DAS1575 (25*25*4)
2	Frequency Range	1575. 42MHz ± 3 MHz 1602MHz ± 8 MHz
3	V. S. W. R	1. 5:1
4	Band Width	> 8 MHz for GPS > 16MHz for GLONASS
5	Impedence	50 ohm
6	Gain	5dBi Based on 7×7cm ground plane
7	Polarization	RHCP

2.2 LNA

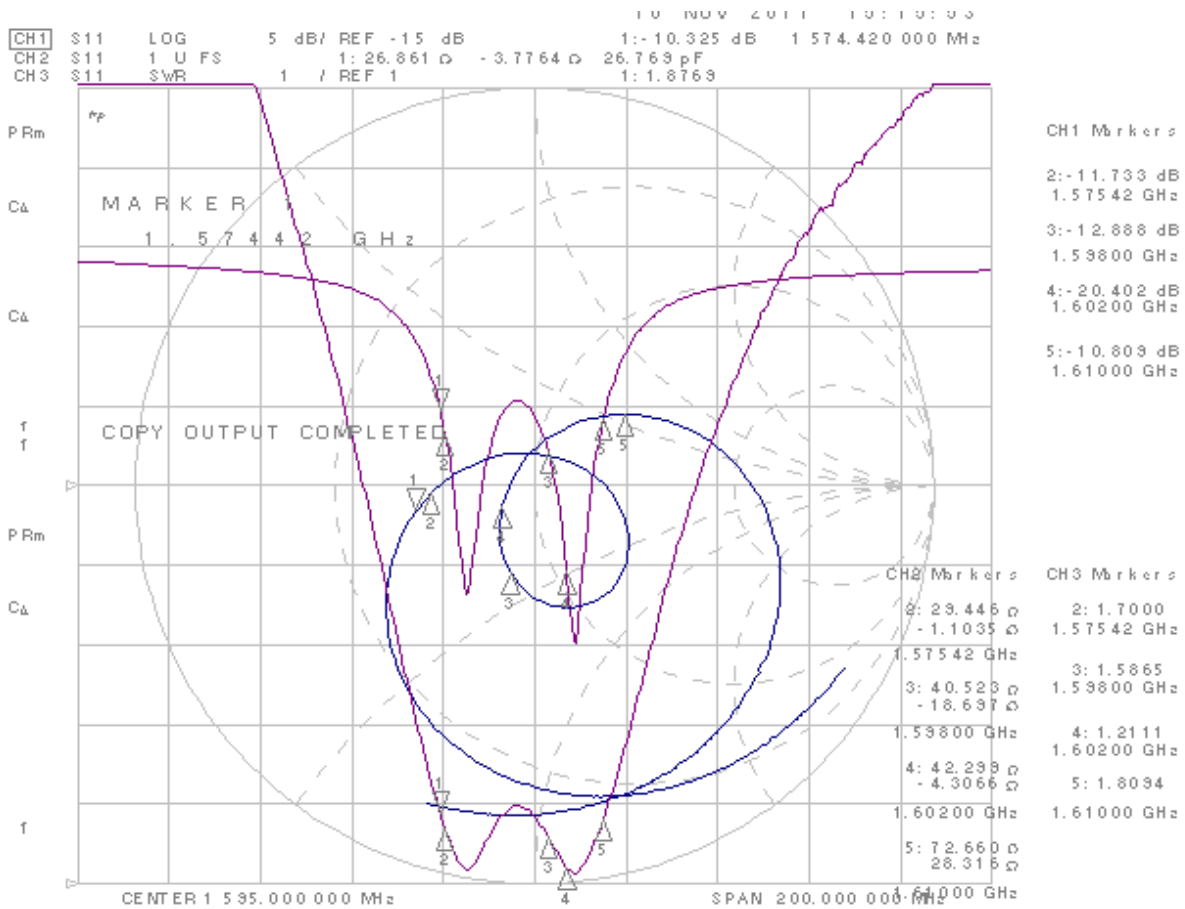
1	Frequency Range	1595MHz ± 23MHz
2	DC Voltage	2. 8-5. 0V
3	Gain	30dB
4	Outband Rejection (Absolute value)	≥20dB (fo+100MHZ)
		≥25dB (fo-100MHZ)
5	Output VSWR	2. 0 max
6	Noise Figure	1. 5 max
7	DC current	13. 5 mA (at 3. 0V)

3、Material

1	Antenna	Dielectric Ceramics
2	PCB	FR4
3	Shielding	Tinplate
4	RF Cable	RG174 Attenuation : 1. 3dB/m
		L=500±10CM
5	RF Connector	SMA-J3
6	Circular magnets	Φ15*2mm

PRODUCT NAME	Prepared date	Page
DAMGN4X1_J5M	2012. 04. 12	3/7
Prepared by	Checked by	Approved by
Shen jie	Yan wen li	Gao sheng

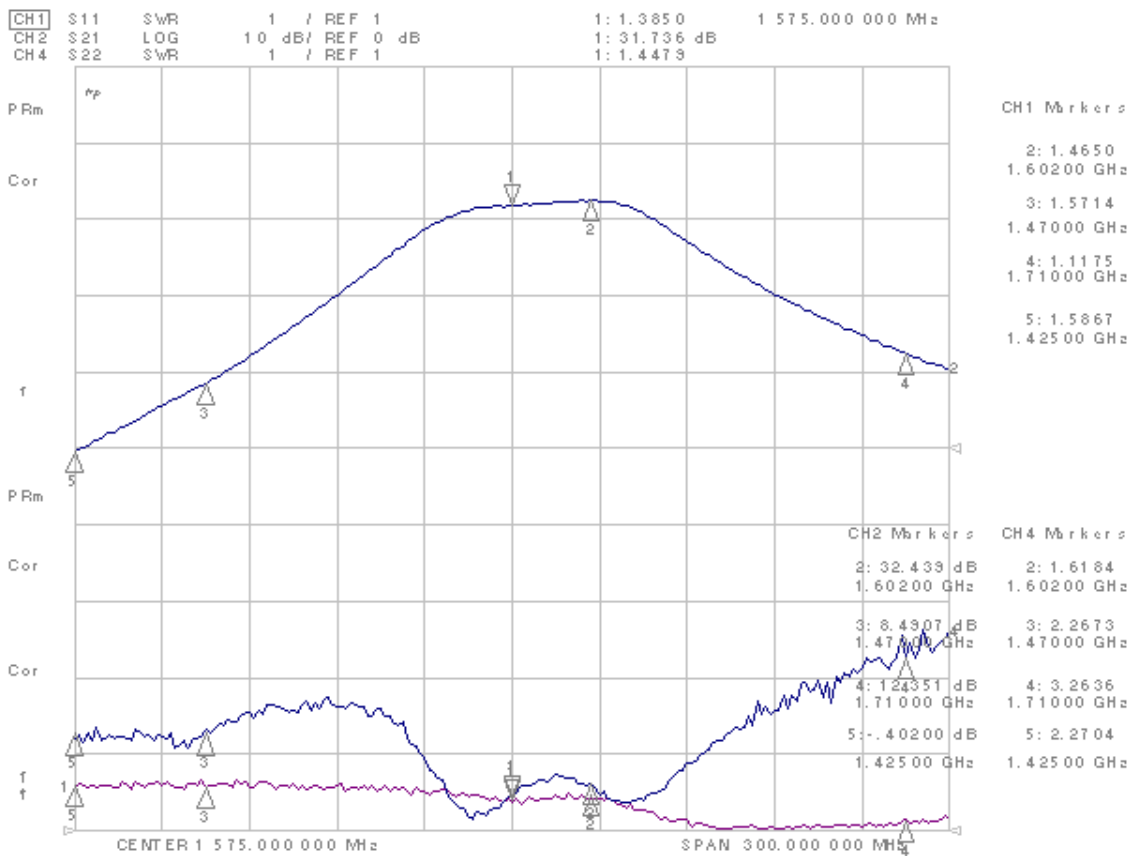
4、Patch Test curve



Test condition:27x27mm ground

PRODUCT NAME	Prepared date	Page
DAMGN4X1_J5M	2012. 04. 12	4/7
Prepared by	Checked by	Approved by
Shen jie	Yan wen li	Gao sheng

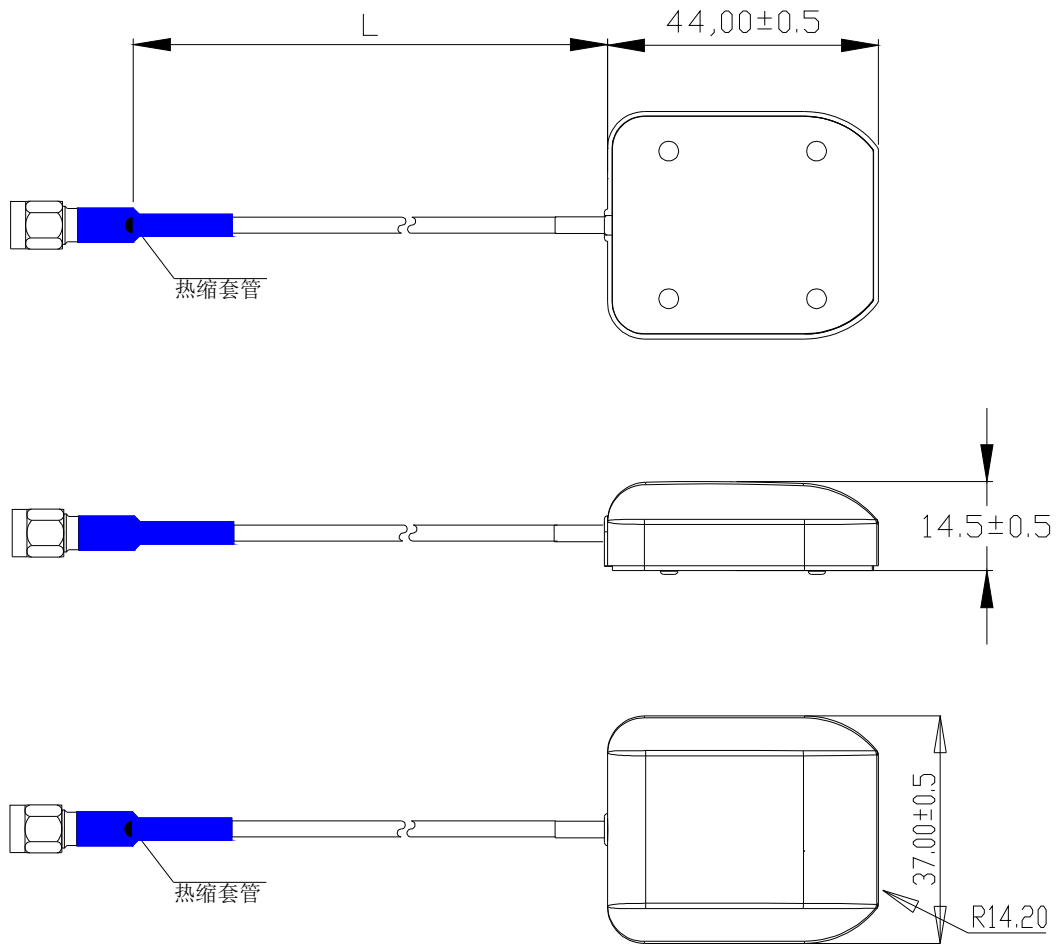
5、LNA Test curve



Test condition: DC 3.0V

PRODUCT NAME	Prepared date	Page
DAMGN4X1_J5M	2012. 04. 12	5/7
Prepared by	Checked by	Approved by
Shen jie	Yan wen li	Gao sheng

6、Structure (unit: mm)



PRODUCT NAME	Prepared date	Page
DAMGN4X1_J5M	2012. 04. 12	6/7
Prepared by	Checked by	Approved by
Shen jie	Yan wen li	Gao sheng

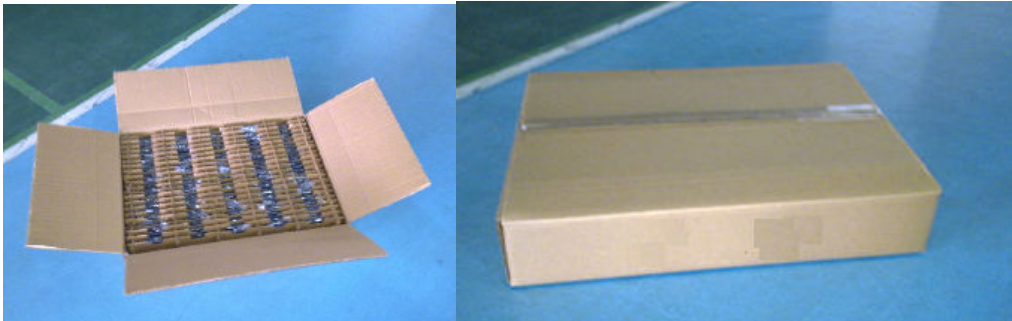
7、 Reliability Test

Item	Test Condition	Remark
Humidity Test	The device is subjected to 93±2% relative humidity 40±2℃ ± 3℃ for 48h, then dry out at 25℃ ± 5℃ and less than 65% relative humidity for 12h. After dry out the device shall satisfy the specification in table 8.1.	
High Temperature Storage	The device shall satisfy the specification in table 8.1 after leaving at 85℃ for 16h, provided it would be measured after 2h leaving in 25℃ ± 5℃ and less than 65% relative humidity.	
Low Temperature Storage	The device shall satisfy the specification in table 8.1 after leaving at -40℃ for 16 h, provided it would be measured after 2h leaving in 25℃ ± 5℃ and less than 65% relative humidity.	
High Temperature Operation	Operating the device at 80℃ and 3.0V for 2h, the device shall satisfy the specification in table 8.1.	
Low Temperature Operation	Operating the device at -40℃ and 3.0V for 2h, the device shall satisfy the specification in table 8.1.	
Vibration	Subject the device to Sinusoidal vibration for 2h each in x, y and z axis with the amplitude of 1.5mm (max), the frequency shall be varied uniformly between the limits of 10Hz~55Hz~10Hz.	
Free Fall	Handling the product at the 1000mm dropped 3 times with random fall surface, the device shall satisfy the specification in table 8.1.	(Mechanical damage such as breaks shall not occur.)

PRODUCT NAME	Prepared date	Page
DAMGN4X1_J5M	2012. 04. 12	7/7
Prepared by	Checked by	Approved by
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8、 Packing (If there are other customers packaging requirements specified in the order)

Each carton includes 100 PCS antenna, Each lattice put 1PCS antenna, the size of carton is 630 * 460 * 105 mm.



9、 Note

- 1、 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.
- 2、 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.
- 3、 Electrostatic sensitive device. Observe precautions for handling.