

APPROVAL SHEET

PRODUCT NAME	CUSTOMER APPROVED BY
DAM1575A4ZB1_GL02_J3M	
CUSTOMER NAME OR MODEL	APPROVED DATE

SPECIFICATION

Product Name: DAM1575A4ZB1_GL02_J3M

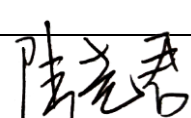

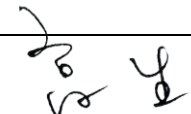
Description: 3.3V/4.1mA/13.5dB/3M (L) /SMA-J3
(Typical Value)

VERSION INFORMATION

VERSION	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2016/03/09	NEW ISSUED	Yaojun Lu	Mark Yan	Sheng Gao
V1.1	2016/04/18	To customize the label	Yaojun Lu	Mark Yan	Sheng Gao
V1.2	2016/04/19	To adjust the overview information	Yaojun Lu	Mark Yan	Sheng Gao

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.....).

PREPARED BY	CHECKED BY	APPROVED BY
		 2016-4-24

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DAM1575A4ZB1_GL02_J3M	2016.03.09	2/10
Prepared By	Checked By	Approved By
Yaojun Lu	Mark Yan	Sheng Gao

1. Electrical Characteristics

1.1 Antenna

1	Antenna model	DAS1575 (25*25*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	4.5dBic Based on 7×7cm ground plane
7	Polarization	RHCP

1.2 LNA

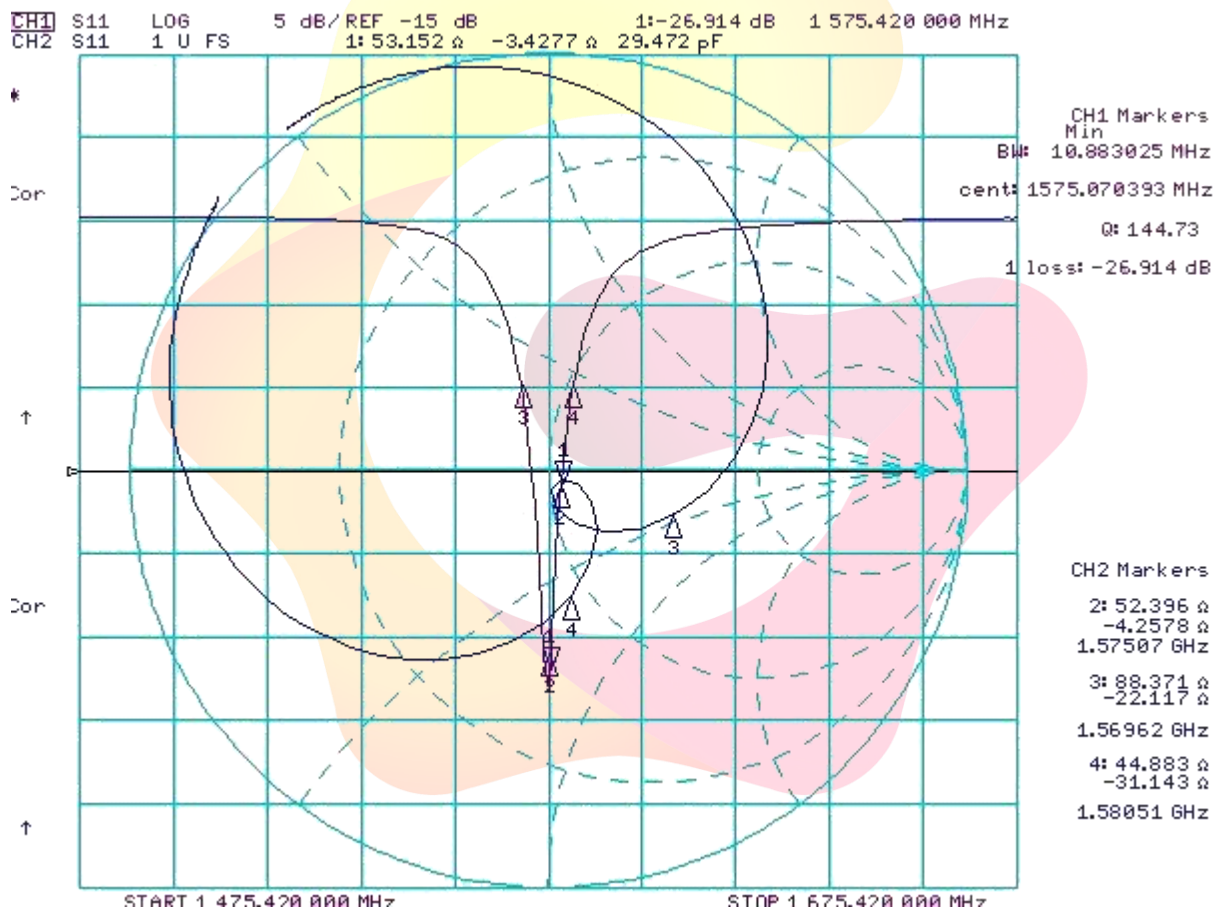
1	Frequency Range	1575.42MHz±1.02 MHz
2	DC Voltage	3.3 (±0.3) V
3	Gain	13.5±1.5 dB
4	Output VSWR	2.0(MAX)
5	Noise Figure	1.5(MAX)
6	DC current	3.7~4.5 mA (at 3.3V)

1.3 Overall (Complete module including RF connector)

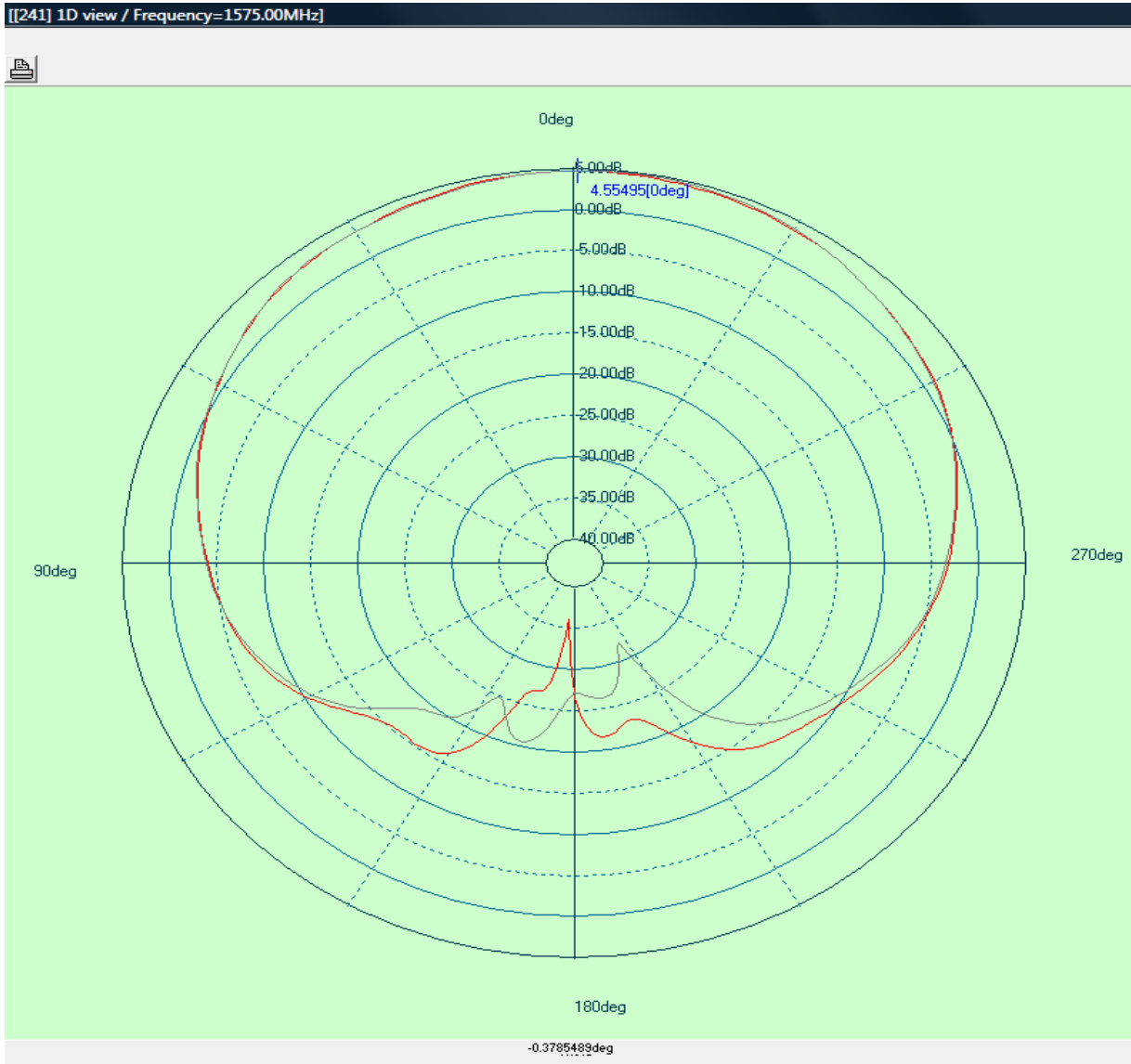
1	Frequency Range	1575.42MHz±1.02 MHz
2	Output VSWR	2.0
3	Impedence	50 ohm

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2. Patch Test curve



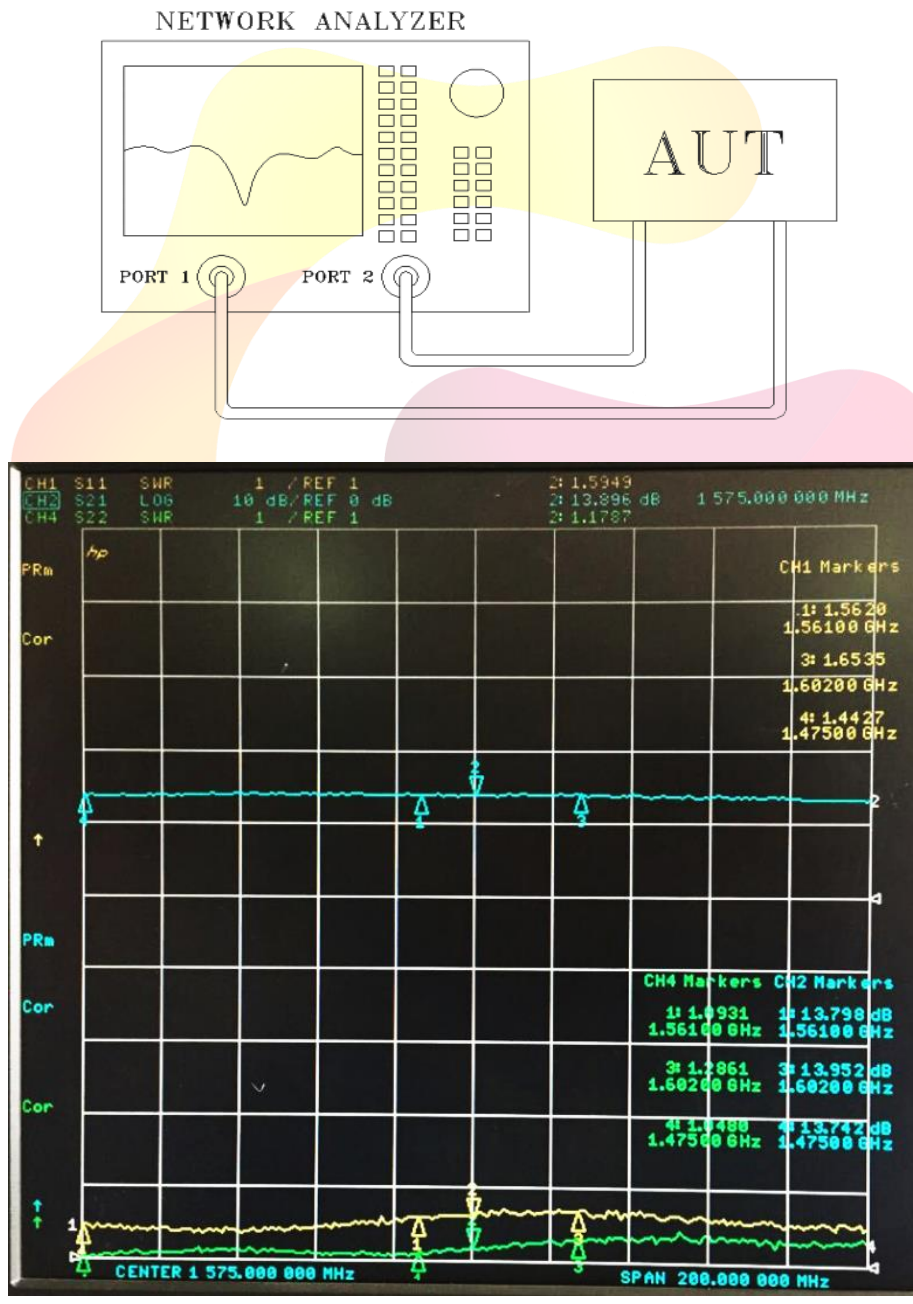
The Radiation Pattern



Test condition:70x70mm ground

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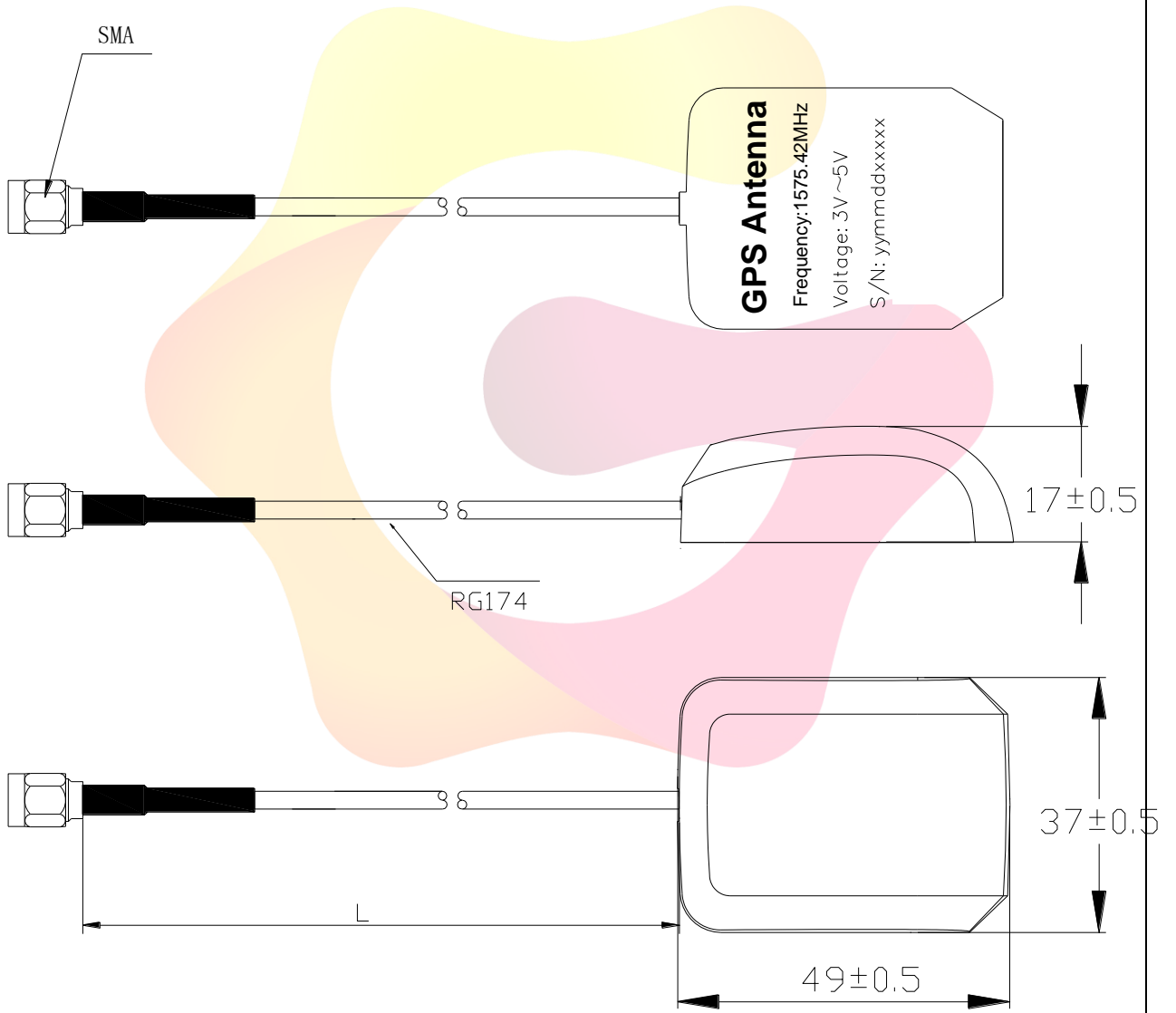
3. LNA Test curve



Test condition: DC 3.3V

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4. Structure



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5. Water proof test report

Reliability Test Report Feb 7, 2015

WaterProof Test

GPS Active Antenna
Model: DAM1575A4ZB1_GL02_J3M
Sample size: 5pcs

A. Reference document
None

B. Test Equipment
WaterProof Test Equipment

C. Tested By
Ma Jun, Zhang Yu

D. Test Duration
15.02.07

E. Test Location
Glead Reliability Test Lab

F. Test Specifications

Sample Size	Immersion Depth	Duration
5	100cm	30min

G. Test Criteria
IEC 60529-2013 Degrees of protection provided by enclosures (IP Code)

H. Test Procedure
1. No cables are connected to the DUT, Power off.
2. Perform the waterproof test at the specification IPX7(100cm,30min), keep the DUT locating 100cm below the surface of the water, duration of the test is 30min.
3. After test, inspect the ingress of the water.

Glead Electronics
Quality Assurance Department

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Reliability Test Report Feb 7, 2015

I. Test Result

Checking Item	Acceptance Criteria	After Test	Conclusion
		#1-#6	
Water Ingress	No Water Ingressed	Ok	Pass
External Visual	No Mechanical structure destroyed	Ok	Pass

J. Raw Data



After Test



Prepared By Ma Jun	Reviewed By Zhu Ye	Approved By Li Ahua
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6. Material

No	Part Name	SPEC
1	Antenna	Dielectric Ceramics
2	PCB	FR4
3	Shielding	Tinplate
4	RF Cable	RG174
		Attenuation : 1.3dB/m
		L=300±10CM
5	RF Connector	SMA-J3
6	Thickness	17.0mm

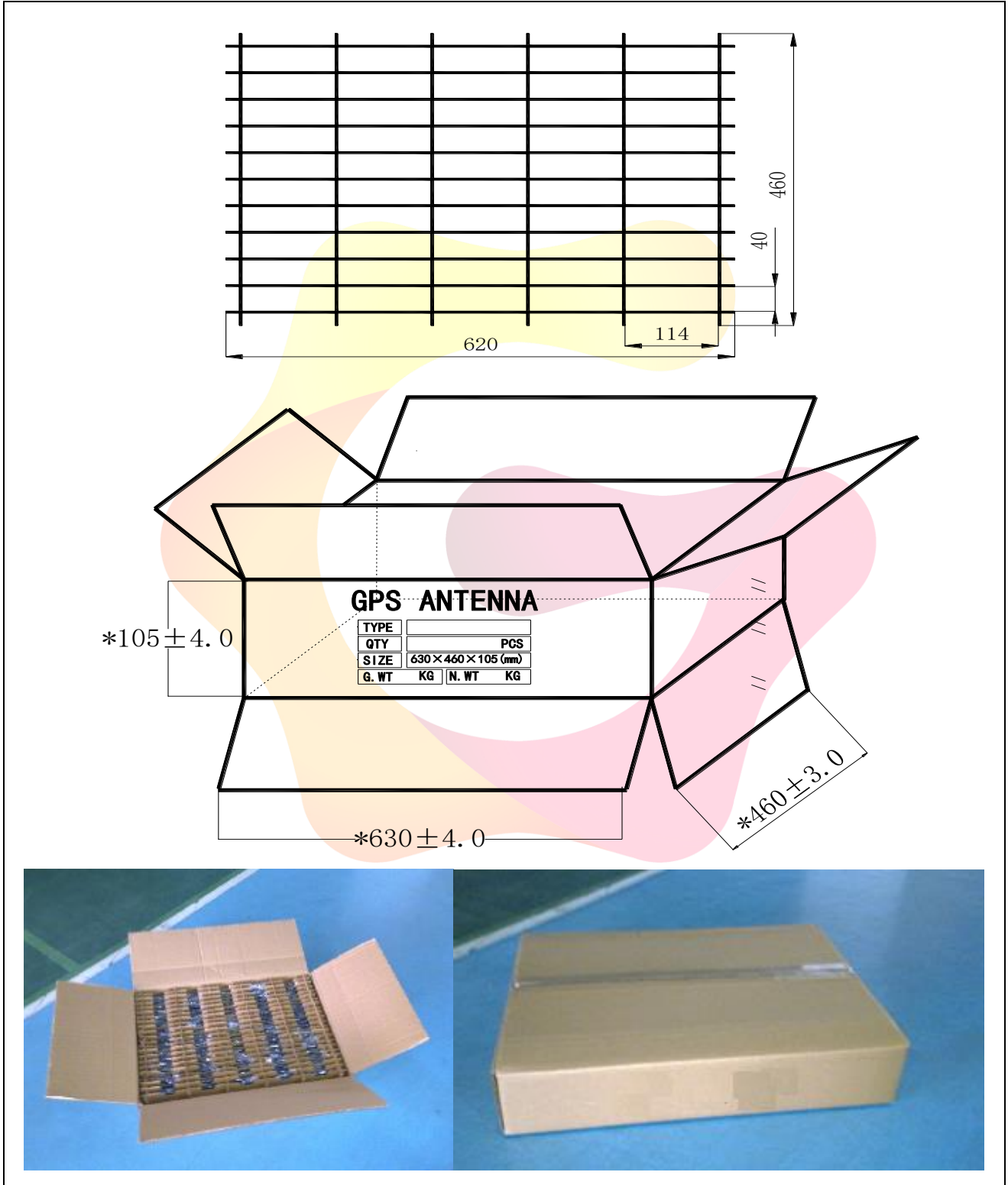
7. Environment Condition

1	Working Temp	-40℃~+80℃
2	Storage Temp	-45℃~+85℃
3	Vibration	Sine sweep 1g(0-p) 10~55~10Hz each axis
4	International Protection	IP66

8. Packing (If there are other customers packaging requirements specified in the order)

包装名称 Package Nam	包装数量 Quantity
包装袋 bag	(1) pcs/bag
格仓 lattice	(2) pcs/ lattice
外包装箱 Outer Box	(100) pcs/box

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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.