

PA1590MJ4G-124-16

Engineering Specification

1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
General Receiving Frequency Range	1575.42 ± 1.023	MHz	GPS Band
Center Frequency	1575.42	MHz	
General Receiving Frequency Range	1598~1606	MHz	GLONASS Band
Center Frequency	1602	MHz	
GPS Gain at Zenith	1.2 typ.	dBic	Center Frequency
GLONASS Gain at Zenith	1.5 typ.	dBic	
Polarization	RHCP		Note (1)
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C
Operating Temperature			-40°C to +85°C

Frequency (MHz)	S ₁₁ (dB)	Gain 0°XZ-plane (dBic)	RH Upper Hemi. efficiency (%)
1575.42	-41.83	1.27	34.86
1598	-9.17	1.43	34.14
1606	-8.40	1.52	31.53

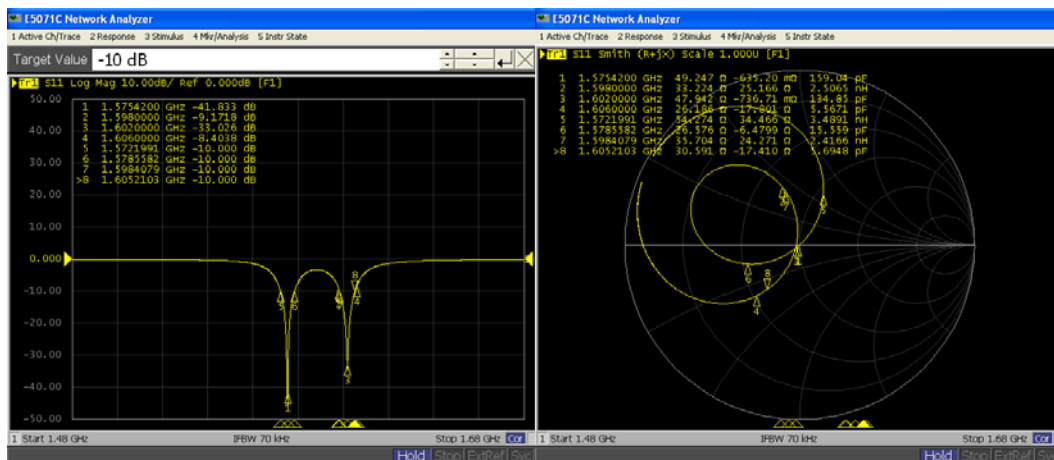
PA1590MJ4G-124-16 , G : Green parts (RoHS compliance)

-124 are the code of project number, -16 show of appendix

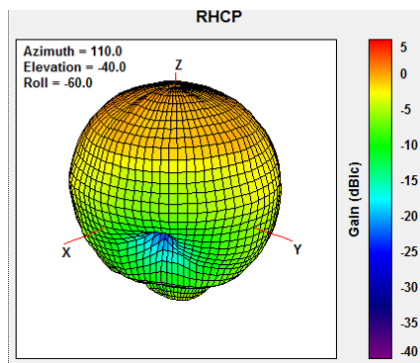
UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.	
X=±	X.X=±			
ANGLES=±		HOLEDIA=±		
SCALE :	UNIT : mm			
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2. Patch Antenna Performance and Characteristic Data on 50x50 mm Ground

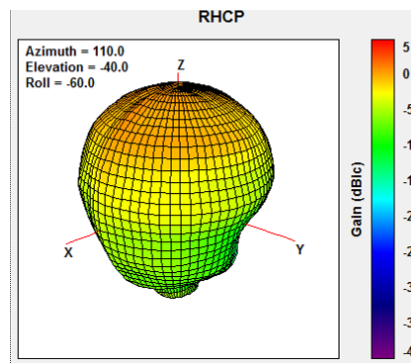
2.1 Smith Chart/Return Loss



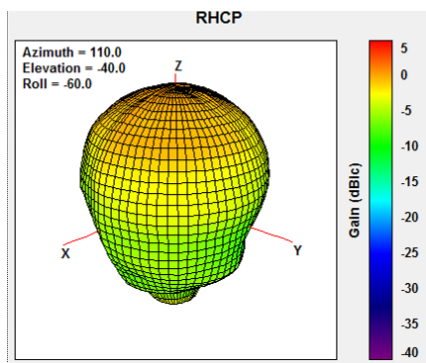
2.2 Gain Pattern (Unit : dBic)



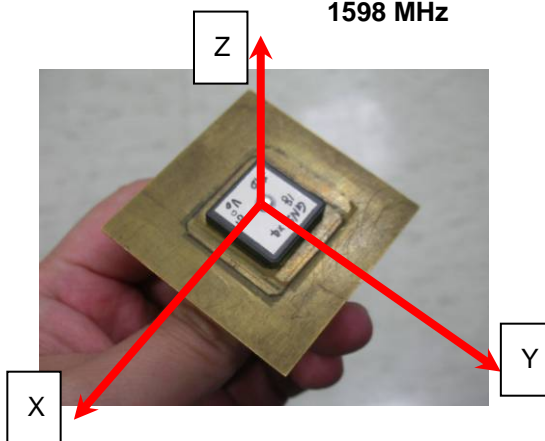
1575.42 MHz



1598 MHz



1606 MHz



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

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DESIGNED BY:鄭大福 APPROVED BY:曾源標

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DOCUMENT NO.

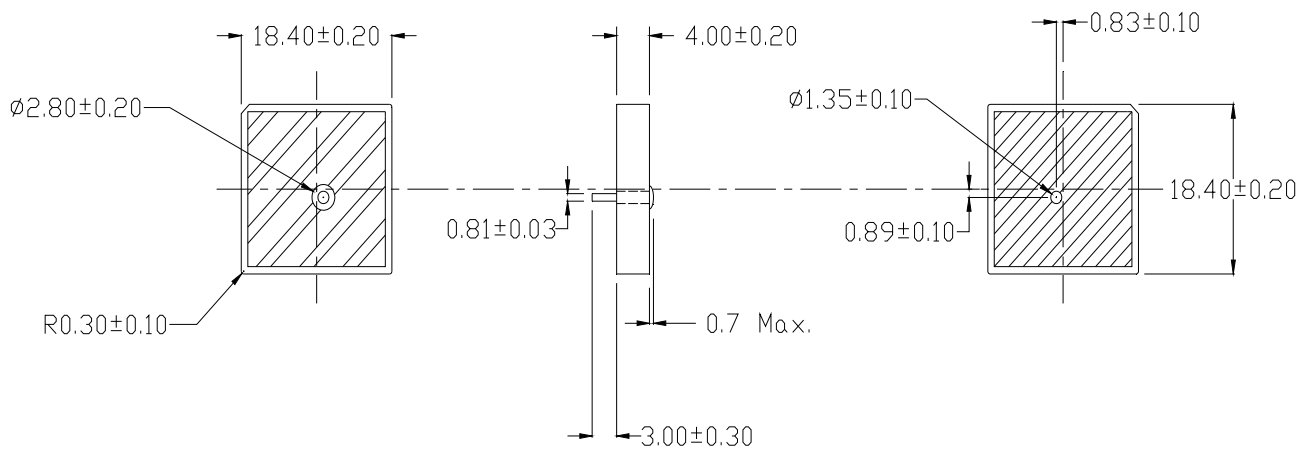
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P0

2.3 Antenna Direction



3. Dimension



Unit: mm

UNLESS OTHER SPECIFIED TOLERANCES ON : X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±		 INPAQ TECHNOLOGY CO., LTD.
SCALE :	UNIT : mm	
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4. Explanation of Appendix

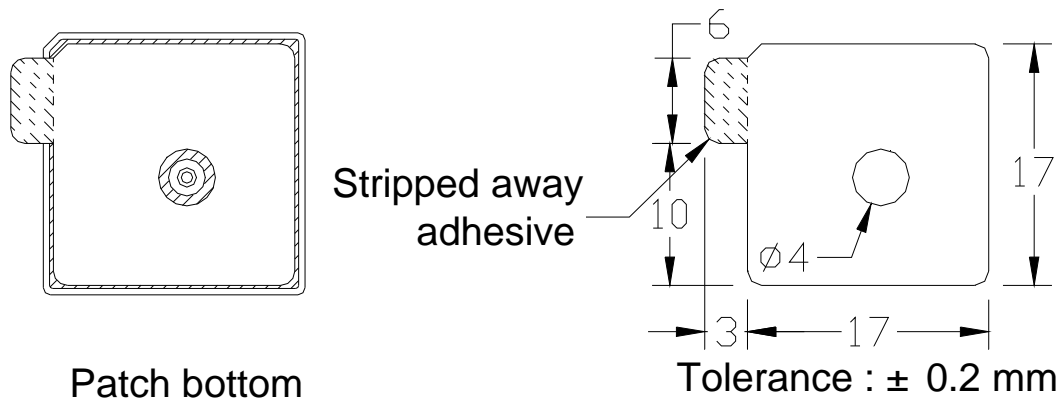
P A 1 5 9 0 M J 4 G - 1 2 4 - 1 6
 (1) (2)

(1) The Pin length is 3 mm

(2) Adhesive Tape 6 17x17mm

Adhesive Transfer Tape Specification

- 2.1 TAPE : Nitto 5000NS 17x17x0.16mm
- 2.2 Thickness : 0.16 mm
- 2.3 Release Liner : 0.1mm (typ.) printed paper or paper
- 2.4 Dimension : mm



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