PA1590MJ6G-102-16M

Engineering Specification

1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1593 ± 2	MHz	On 70x70 mm Ground Plane
Bandwidth	33.6 min.	MHz	S11≦-10dB
Gain at Zenith	5.0 typ.	dBic	Center Frequency
S11	＜-8	dB	By Test Ground Plane
Polarization	RHCP		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

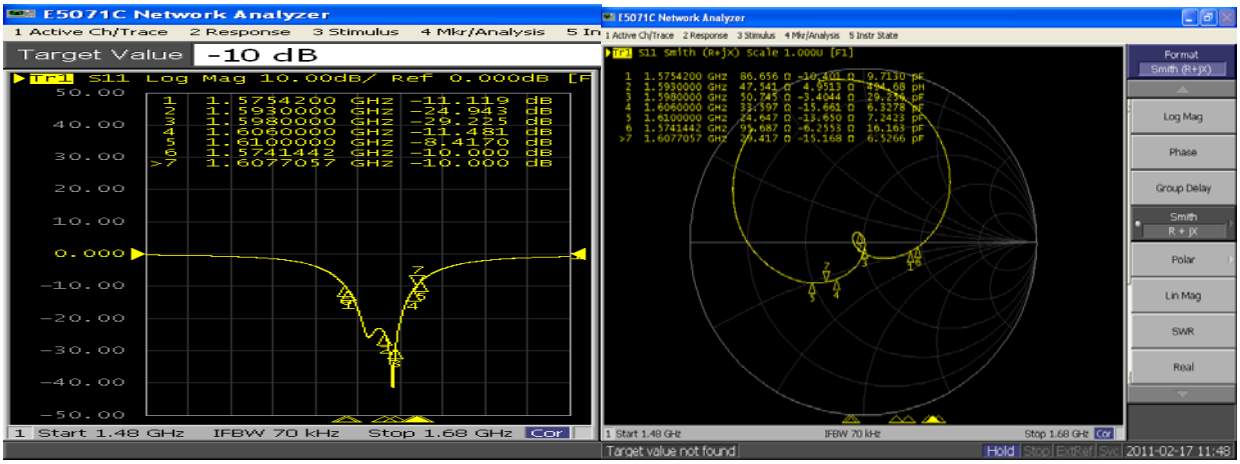
Frequency (MHz)	S_{11}(dB)	Gain 0°XZ-plane (dBic)	RH Upper Hemi. efficiency (%)
1575.42	-11.11	2.70	49.62
1593	-24.94	5.24	52.47
1606	-8.41	3.00	55.26

PA1590MJ6G-102-16M , G : Green parts (RoHS compliance)

-102 are the code of project number, -16M show of appendix

2. Patch Antenna Performance and Characteristic Data on 70x70 mm Ground

2.1 Smith Chart/Return Loss



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DESIGNED BY:鄭大福 APPROVED BY:曾源標	

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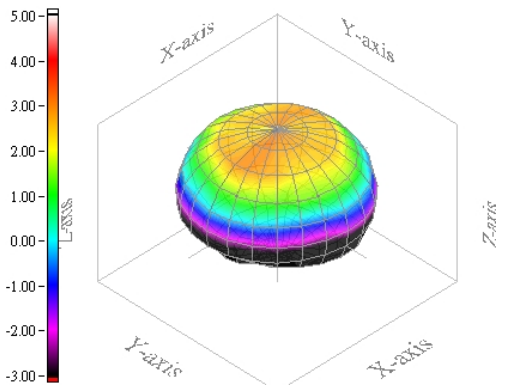
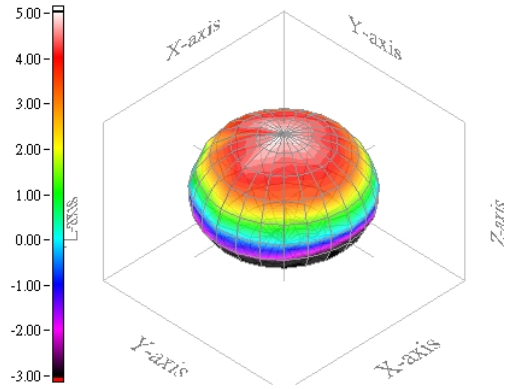
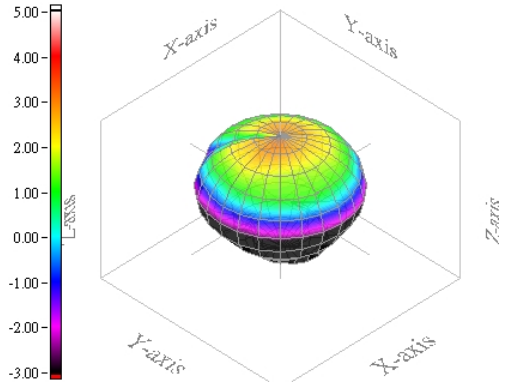
2.2 Gain Pattern (Unit : dBic)



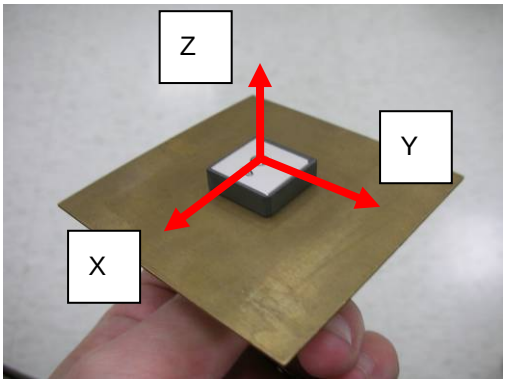
1575.42 MHz



1593 MHz



1606 MHz



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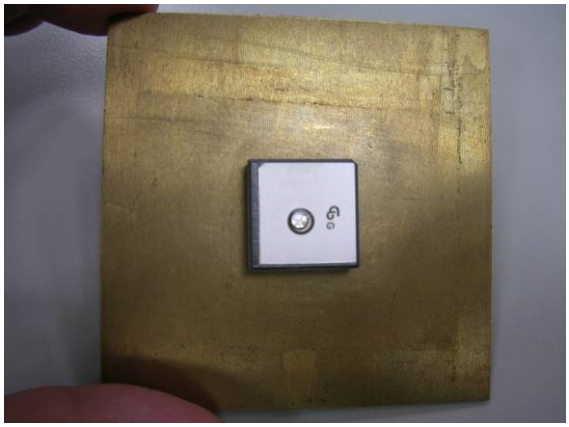
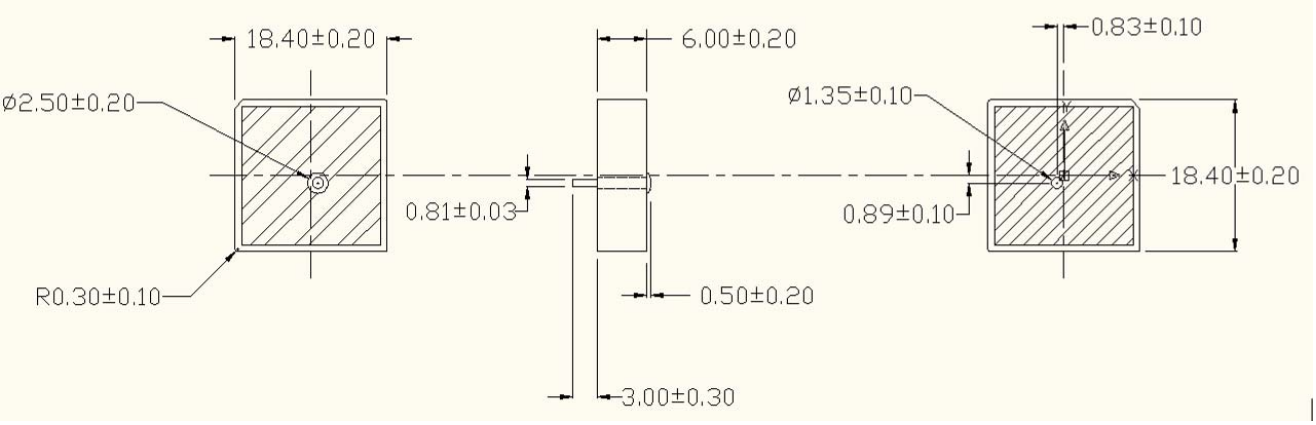
2.3 Antenna Direction



3. Dimension



Unit: mm

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4. Explanation of Appendix

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

(1) (2) (3)

(1) The Pin length is 3 mm

(2) Adhesive Tape 6 17×17mm

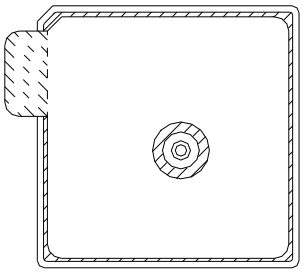
Adhesive Transfer Tape Specification

2.1 TAPE：Nitto 5000NS 17x17x0.16mm

2.2 Thickness : 0.16 mm

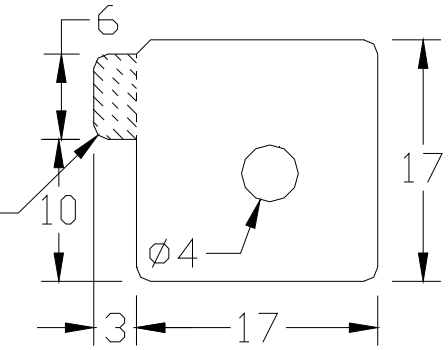
2.3 Release Liner : 0.1mm (typ.) printed paper or paper

2.4 Dimension : mm



Patch bottom

Stripped away adhesive



Tolerance : ± 0.2 mm

(3) Option appendix M Marking

Marking configuration

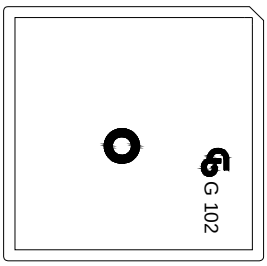
3.1 Logo for INPAQ Logo

3.2 Type

G for green product antenna

3.3 Three digits are the code of our project number

102



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