

# PA1590MI6G-136-1ZM

## Engineering Specification

### 1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1593 ± 3	MHz	By 70x70 mm Ground Plane
S11	< -10	dB	By 70x70 mm Ground Plane
Bandwidth	Wide	MHz	By 70x70 mm Ground Plane
Gain at Zenith	5.0 typ.	dBic	Center Frequency
Polarization	Dual Feed		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

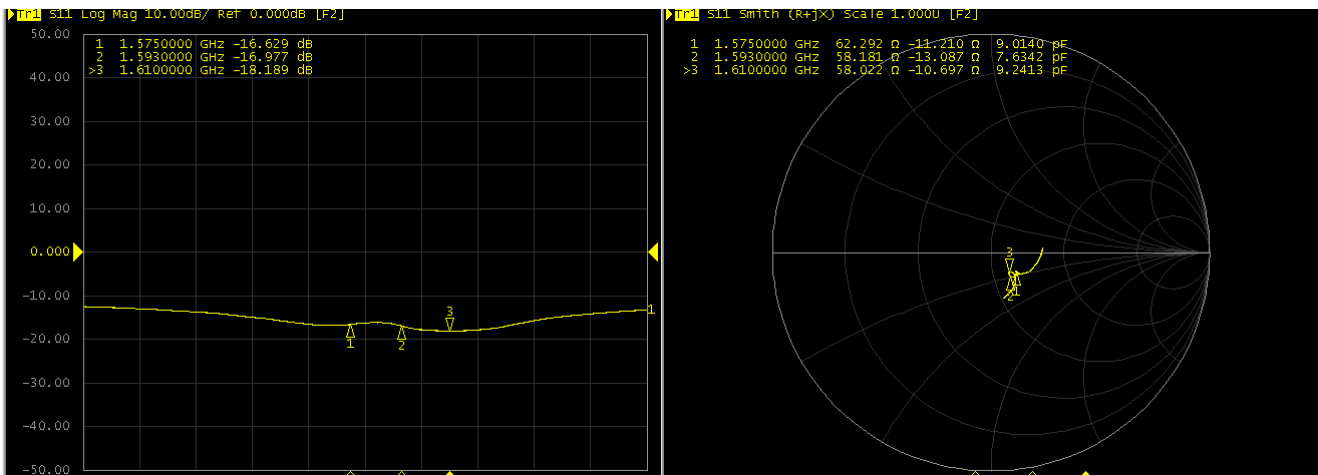
PA1590MI6G-136-1ZM , G : Green parts (RoHS compliance)

-136 are the code of project number, -1ZM show of appendix

Frequency (MHz)	S <sub>11</sub> (dB)	Gain 0°XZ-plane (dBic)
1575.42	-16.62	3.87
1593	-16.97	5.10
1610	-18.18	4.73

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

#### 2.1 Smith Chart/Return Loss



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±            X.X=±            X.XX=±

ANGLES=±            HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY:詹雅萍

CHECKED BY:馬敏勝

DESIGNED BY:鄭大福

APPROVED BY:曾源標



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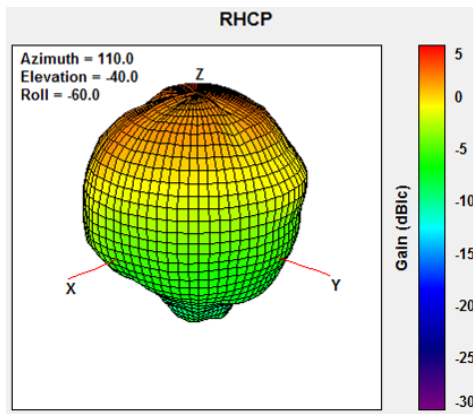
TITLE : PA1590MI6G-136-1ZM  
Engineering Specification

DOCUMENT NO.

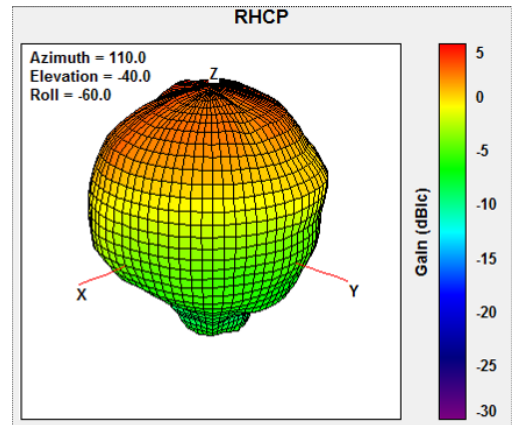
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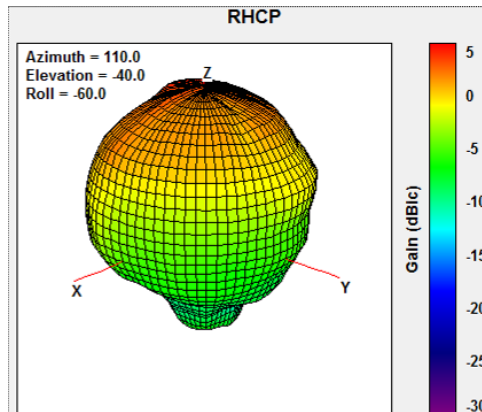
## 2.2 Gain Pattern (Unit : dBic)



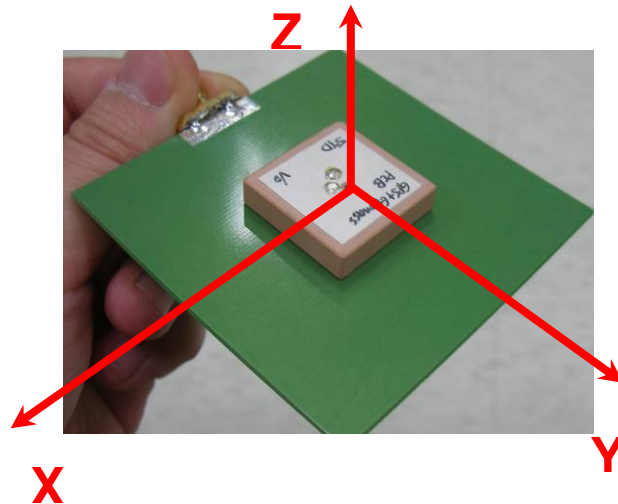
1575.42 MHz



1593 MHz



1610 MHz



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ANGLES=±            HOLEDIA=±

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### 5. Explanation of Appendix

P A 1 5 9 0 M I 6 G - 1 3 6 - 1 Z M

(1) (2) (3)

(1) The Pin length is 3 mm

(2) Adhesive Tape **Z** 22x22mm

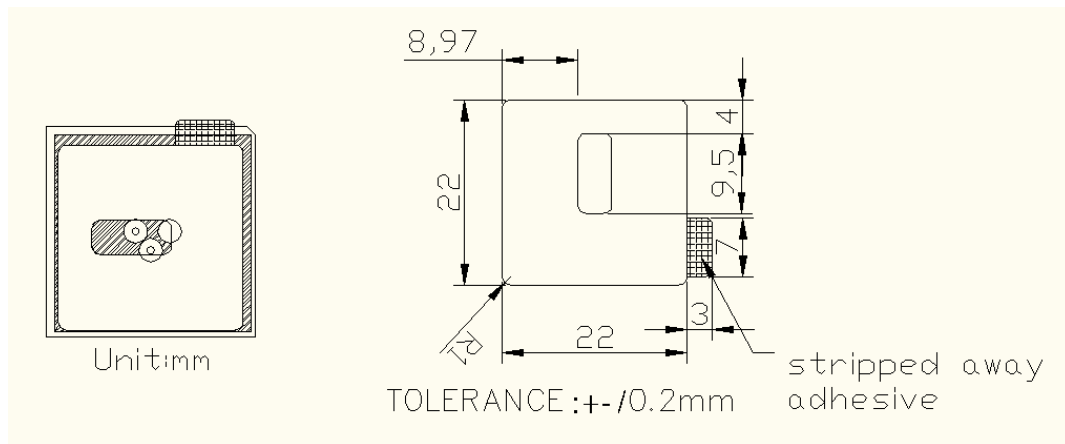
Adhesive Transfer Tape Specification

2.1 TAPE : Nitto 5000NS 22x22x0.16mm

2.2 Thickness : 0.16 mm

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

2.4 Dimension : mm



(3) Option appendix **M** Marking

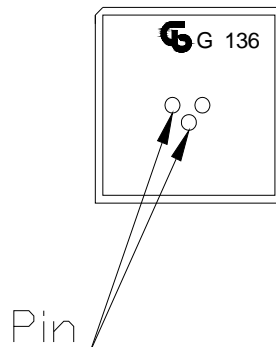
Marking configuration

3.1 Logo **G** for INPAQ Logo

3.2 Type **G** for green product antenna

3.3 Three digits are the code of our project number

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UNLESS OTHER SPECIFIED TOLERANCES ON :  
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 ANGLES=±            HOLEDIA=±



SCALE :                      UNIT : mm  
 DRAWN BY:詹雅萍            CHECKED BY:馬敏勝  
 DESIGNED BY:鄭大福            APPROVED BY:曾源標

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