

# PADGPS-I4H2G-100-1ZM

## Engineering Specification

### 1. Typical Electrical Properties :

#### GPS L1 :

Characteristics	Specification	Unit	Conditions
Center Frequency	1575.42 ± 3	MHz	Note : (1)
Zenith Gain	2.0 typ.	dBic	Note : (1)
S <sub>11</sub>	≤ -10	dB	Note : (1)
Polarization	RHCP		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

#### GPS L2 :

Characteristics	Specification	Unit	Conditions
Center Frequency	1227.60 ± 3	MHz	Note : (1)
Zenith Gain	1.5 typ.	dBic	Note : (1)
S <sub>11</sub>	≤ -10	dB	Note : (1)
Polarization	RHCP		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

Note : (1) Patch characteristics are measured with Measured Ground Plane d=150 mm in an anechoic chamber.

PADGPS-I4H2G-100-1ZM, G : Green parts (RoHS compliance)

-100 are the code of project number, -1ZM show of appendix

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=            X.X=            X.XX=

ANGLES=            HOLEDIA=

SCALE :            UNIT : mm

DRAWN BY:王瑞娟            CHECKED BY:馬敏勝

DESIGNED BY:賴右城            APPROVED BY:謝立庭

TITLE : PADGPS-I4H2G-100-1ZM  
ENGINEERING SPECIFICATION



INPAQ TECHNOLOGY CO., LTD.

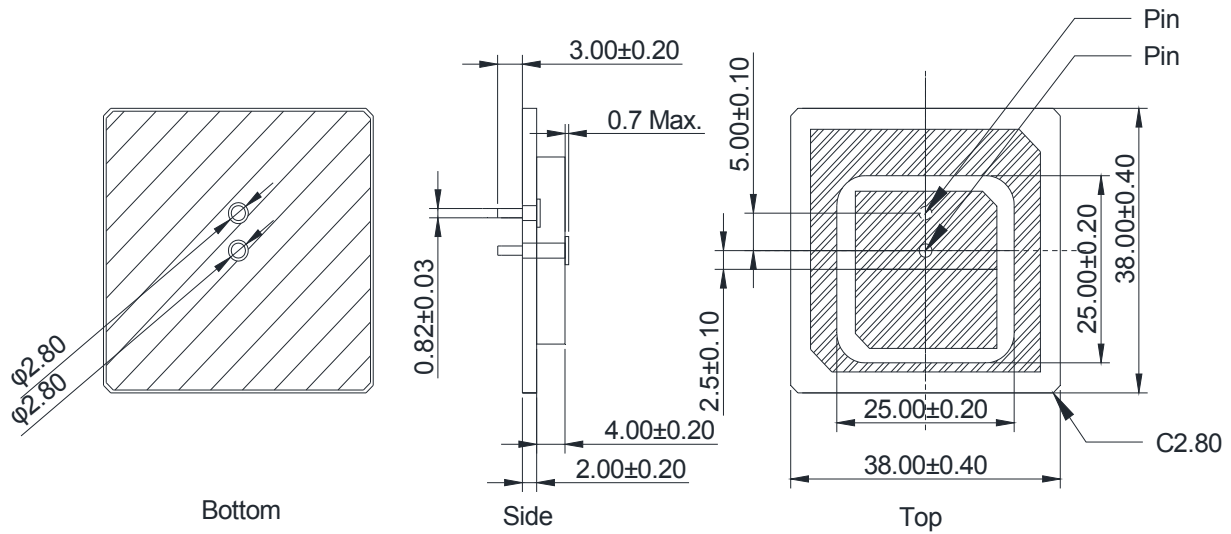
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DOCUMENT  
NO.

ENS000096370

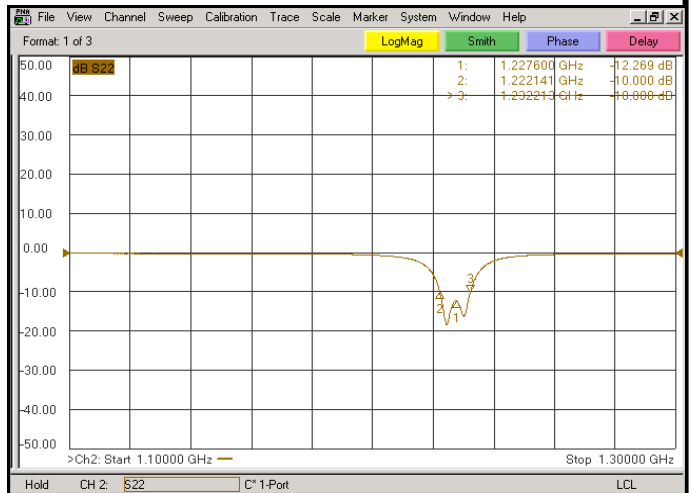
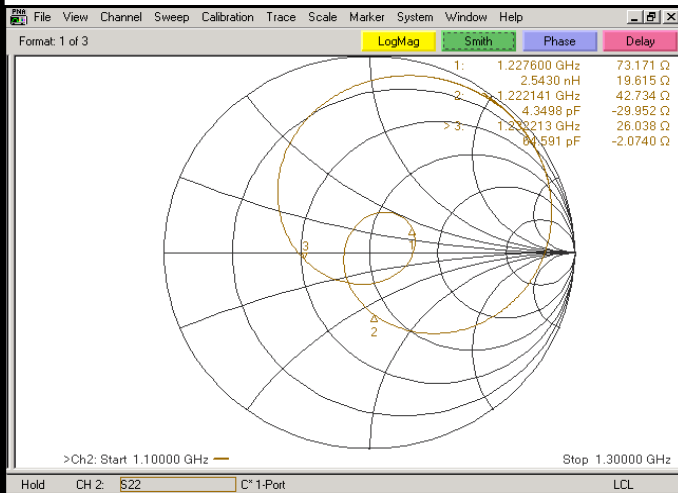
SPEC REV.  
P0

## 2. Dimension :



## 3. Patch Antenna Performance and Characteristic Data on d=150 mm Ground :

### 3.1 Smith Chart/S<sub>11</sub>



### L2 Frequency

UNLESS OTHER SPECIFIED TOLERANCES ON :

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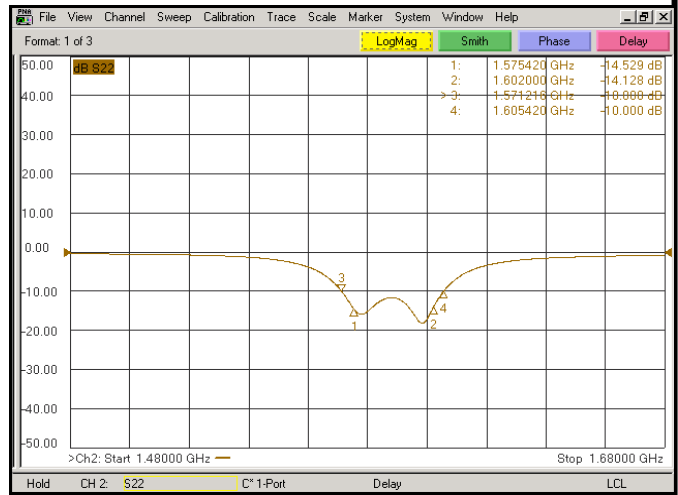
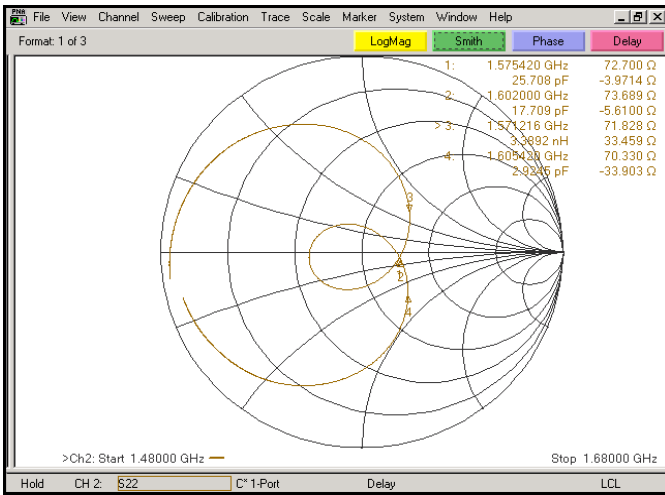
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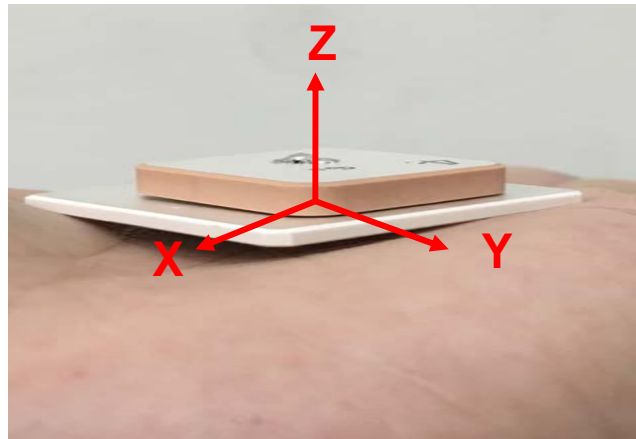
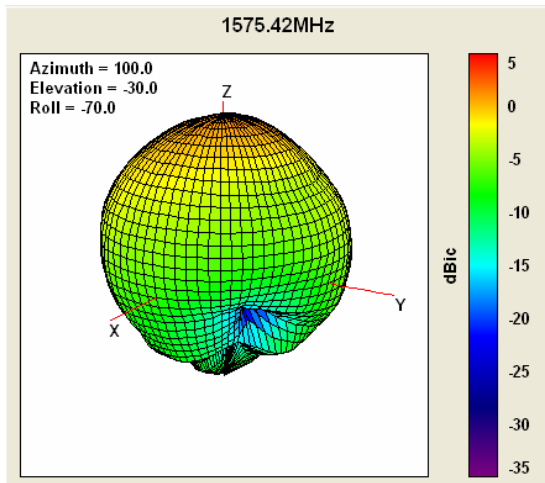
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**L1 Frequency**

**3.2 3D Circular Polarization Gain Pattern : RHCP (Unit : dBic)**

**GPS L1 (1575.42MHz) :**



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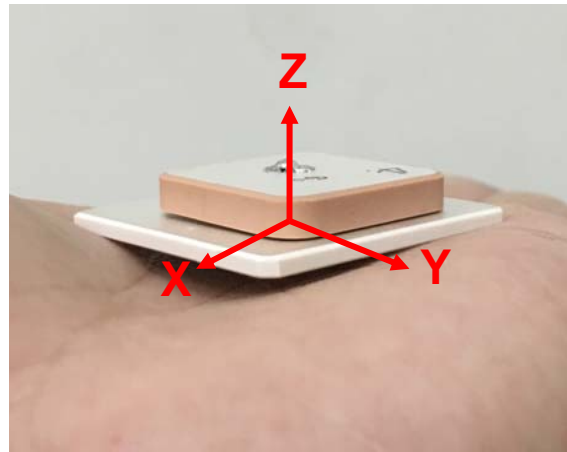
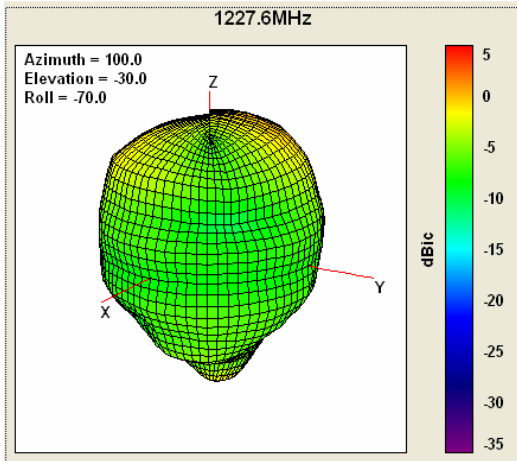


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**GPS L2 (1227.6MHz) :**



**4. Explanation of Appendix :**

**PADGPS-I4H2G-100-1    Z    M**

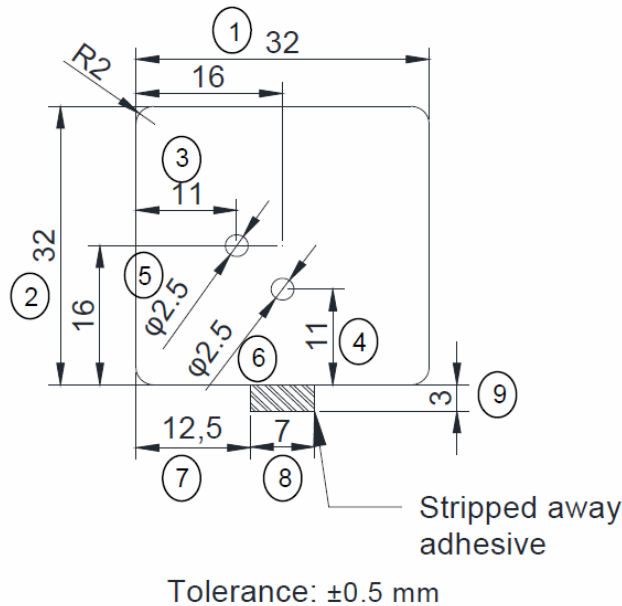
- (1)    (2)    (3)

(1) Pin = 3 mm

(2) Adhesive Tape for Customer Z 32x32mm

Adhesive Transfer Tape Specification

- 2.1 TAPE : Nitto 5000NS 32x32x0.16mm
- 2.2 Thickness : 0.16mm
- 2.3 Release Liner : 0.1mm (typ.) printed paper or paper
- 2.4 Dimension : mm



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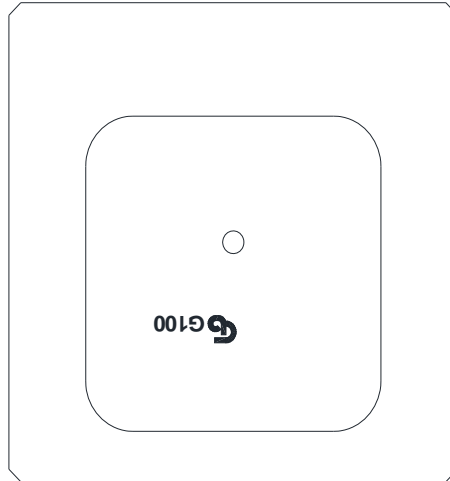
**(3) Option appendix** M **Marking**

Marking configuration

3.1 Logo G for INPAQ Logo

3.2 Type G for green product antenna

3.3 Three digits 100 are the code of our project number



Patch top electrode

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