

PA1590MI6G-101-17M

Engineering Specification

1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1593 ± 3	MHz	On 70x70 mm Ground Plane
Bandwidth	45 min.	MHz	S11 ≤ -10dB
Gain at Zenith	4.9 typ.	dBic	Center Frequency
S11	< -10	dB	By Test Ground Plane
Polarization	RHCP		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

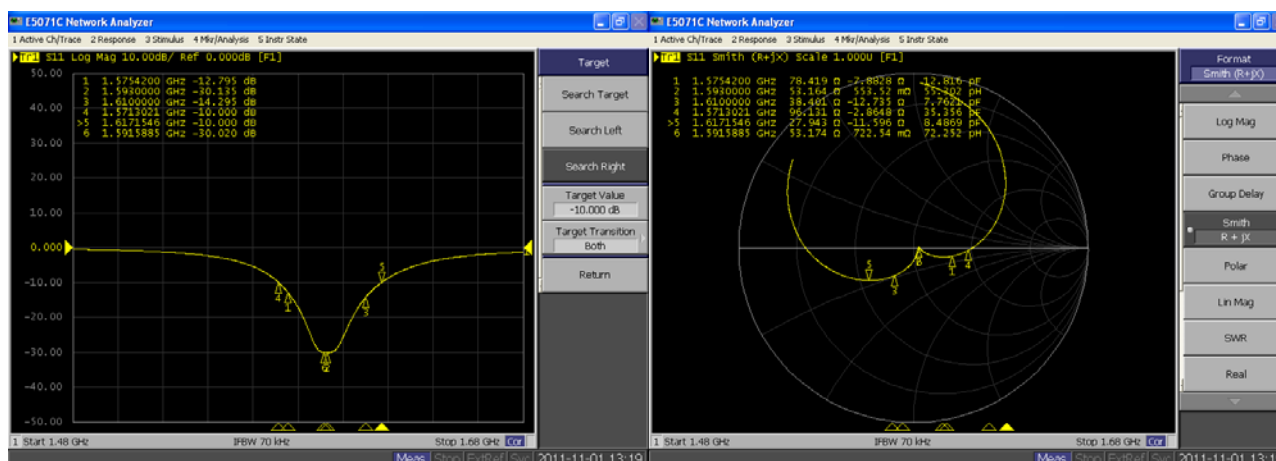
Frequency (MHz)	S ₁₁ (dB)	Gain 0°XZ-plane (dBic)	RH Upper Hemi. efficiency (%)
1575.42	-12.79	3.54	46.44
1593	-30.13	4.9	62.39
1610	-14.29	2.7	42.39

PA1590MI6G-101-17M , G : Green parts (RoHS compliance)

-101 are the code of project number, -17M show of appendix

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: 羅孟仙 CHECKED BY: 馬敏勝

DESIGNED BY: 鄭大福 APPROVED BY: 曾源標

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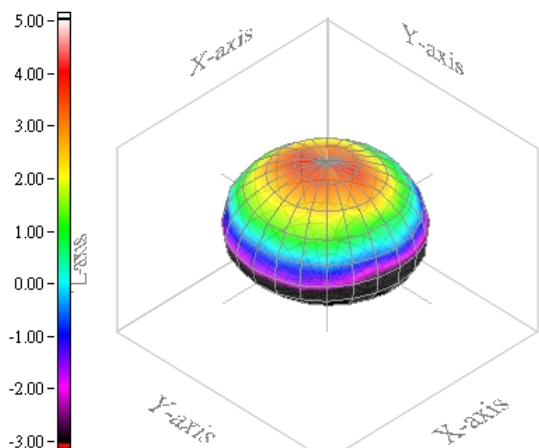
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DOCUMENT NO.

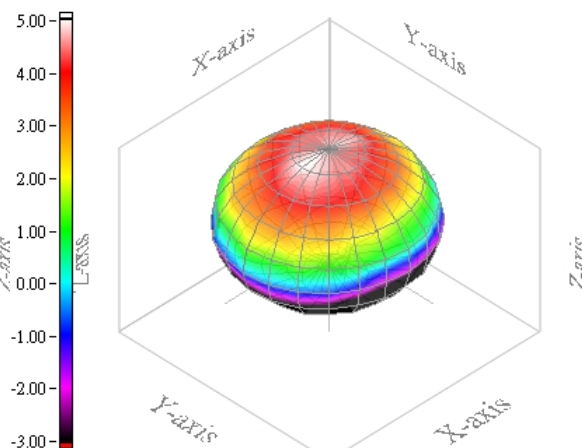
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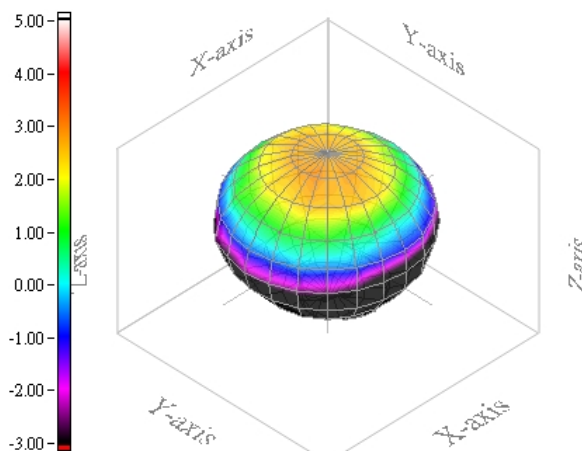
2.2 Gain Pattern (Unit : dBic)



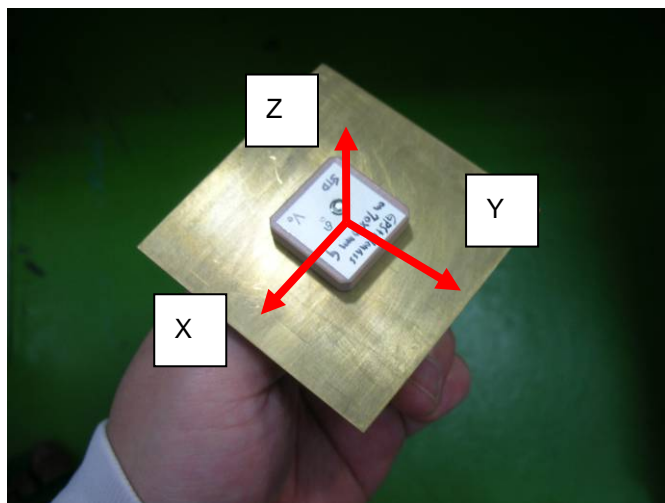
1575.42 MHz



1593 MHz



1610 MHz



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4. Explanation of Appendix

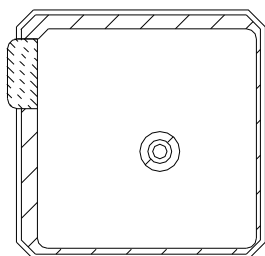
P A 1 5 9 0 M I 6 G - 1 0 1 - 1 7 M
 (1) (2) (3)

(1) The Pin length is 3 mm

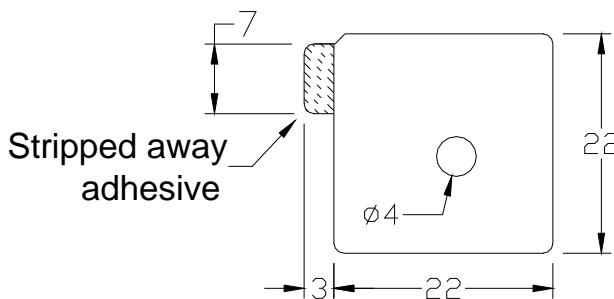
(2) Adhesive Tape **7** 22x22mm

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



Patch bottom

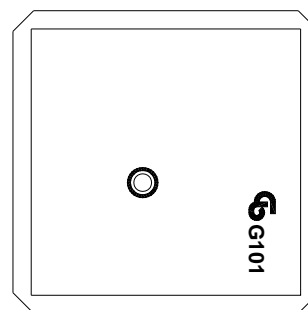


Tolerance : ±0.5mm

(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 **101**



Patch top electrode

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