

PA1590MQ5G-101-1P

ENGINEERING SPECIFICATION

1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Center Frequency	1575.42, 1598-1606	MHz	On 50x50mm Ground plane
Gain at Zenith	0.5 typ.	dBic	
VSWR	<3.5		
Polarization	RHCP		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

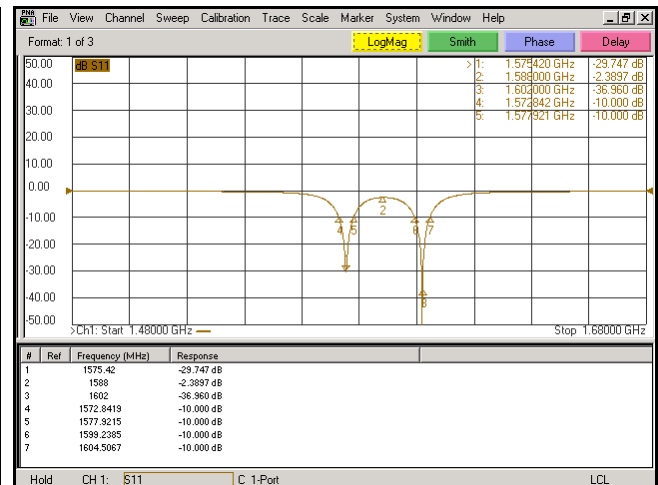
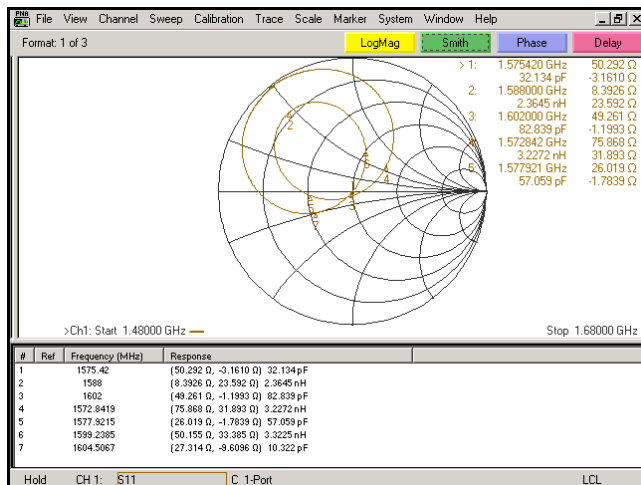
Frequency (MHz)	S ₁₁ (dB)	Gain 0°XZ-plane (dBic)
1575.42	-29.75	1.49
1602	-36.90	1.56

PA1590MQ5G-101-1P, G : Green parts (RoHS compliance)

-101 are the code of project number, -1P show of appendix

2. Patch Antenna Performance and Characteristic Data on 50x50mm Ground

2.1 Smith Chart/Return Loss



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: 李守仁

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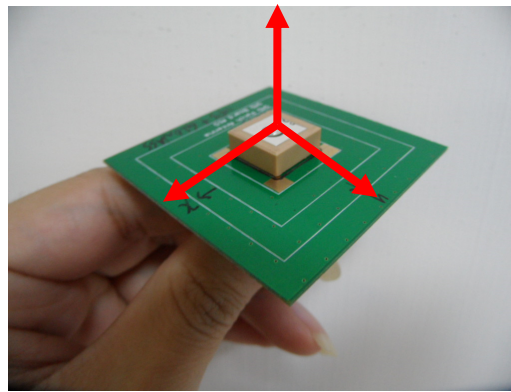
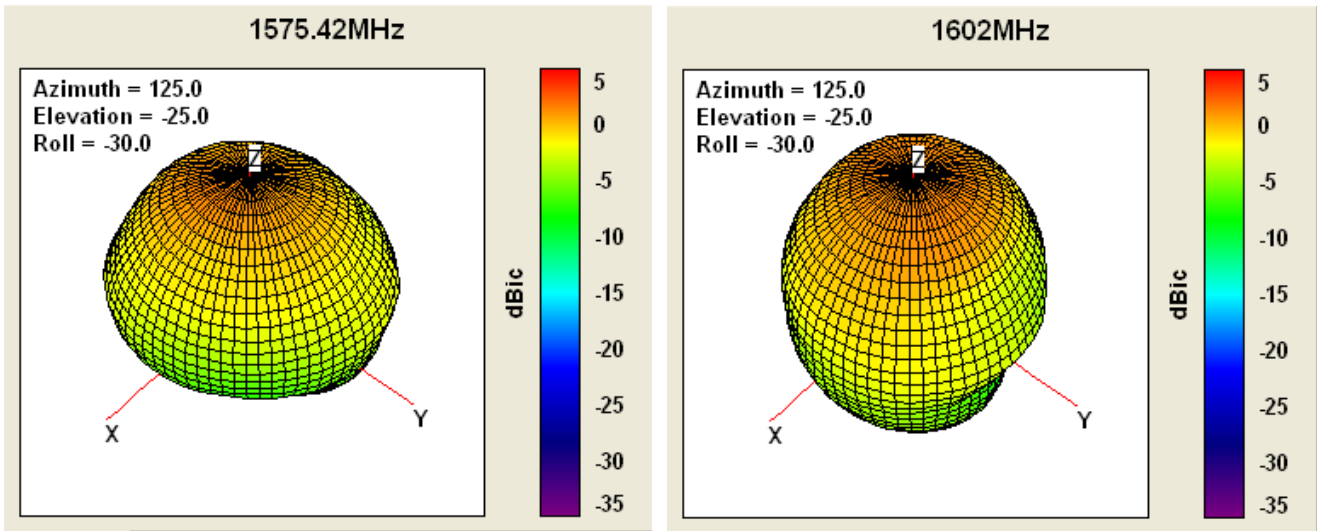


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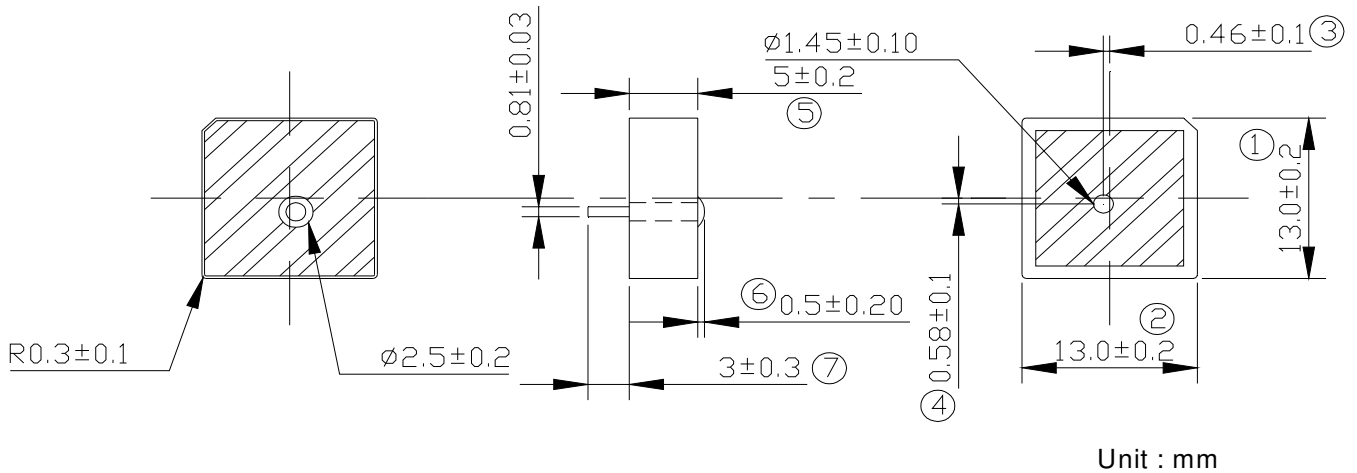
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2.2 Gain Pattern (Unit : dBic)



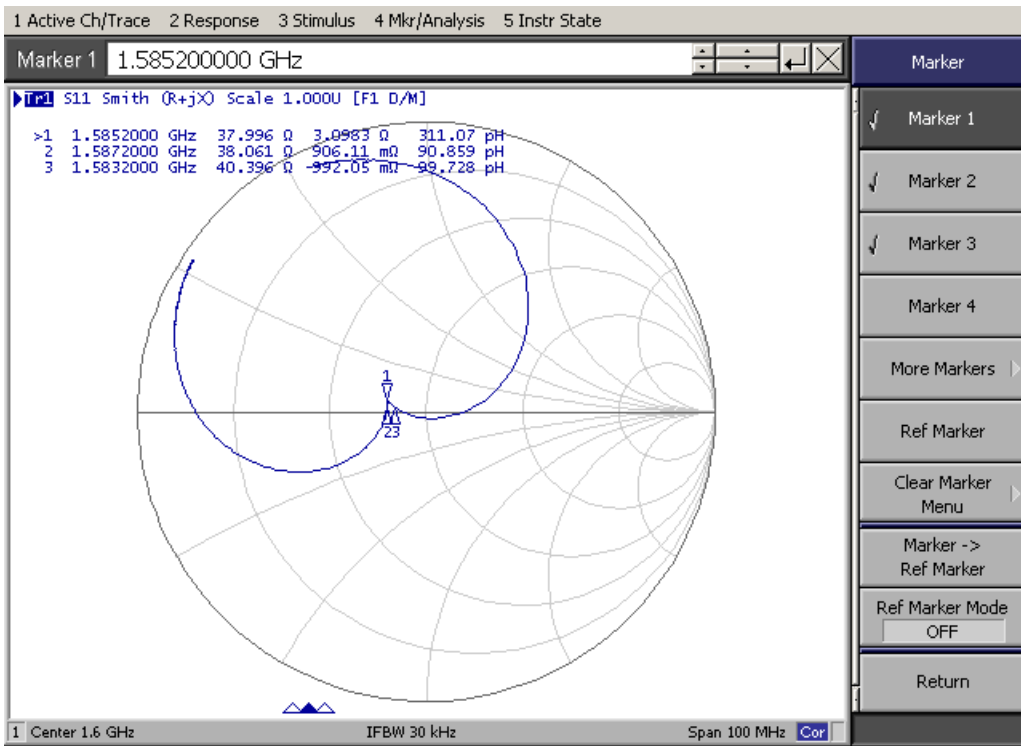
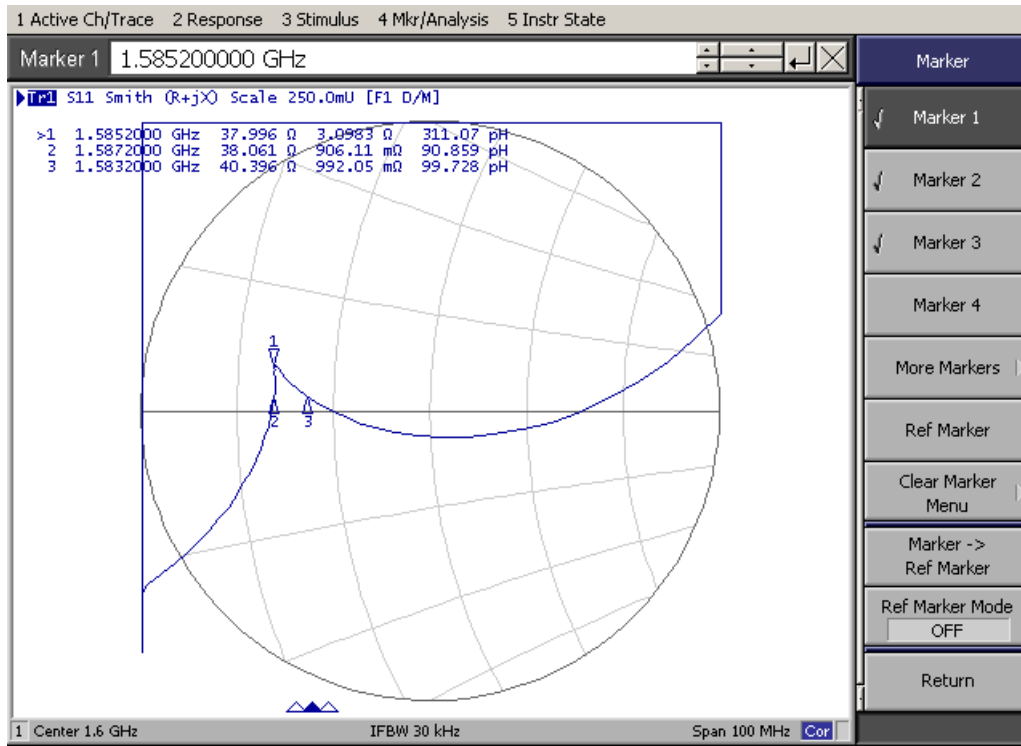
3. Dimension



Note: These 1~7 balloons are important dimension, the others are reference dimension.

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X.XX=±		 INPAQ TECHNOLOGY CO., LTD.
ANGLES=±	HOLEDIA=±	
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7. Measured Input Impedance on a Smith Chart



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 ANGLES=± HOLEDIA=±

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4

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 P2

8. Explanation of Appendix

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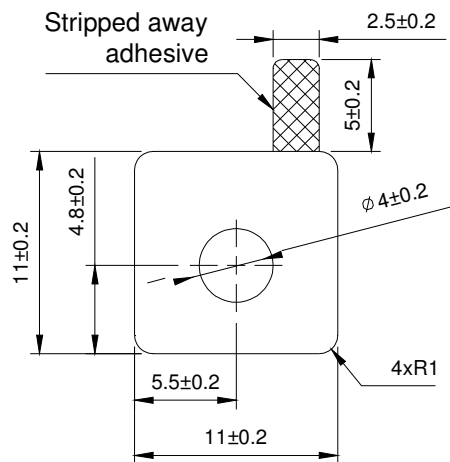
(1)(2)

(1) "1" denotes 3 mm pin length

(2) Adhesive Tape "P" denotes 11×11mm 3M 9460

Adhesive Transfer Tape Specification

- 2.1 Thickness : 0.05 mm
- 2.2 Release Liner : 0.1mm (typ.) printed paper or paper
- 2.3 Dimension : mm



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