PA1590MI6G-126-1ZM

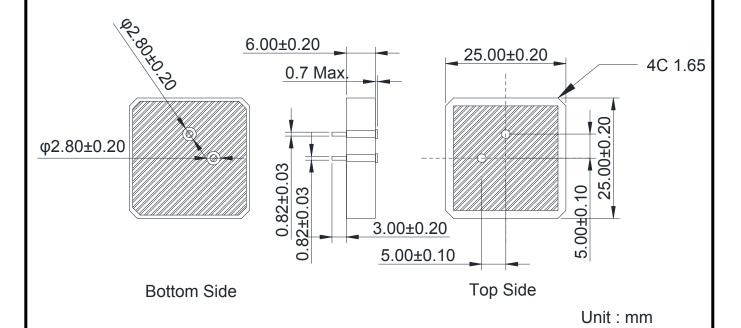
ENGINEERING SPECIFICATION

1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions	
Port 1	1593± 2	MHz	with 70mm Square ground plane	
Port 2	1593± 2	MHz	with 70mm Square ground plane	
S11	≦-20	dB	with 70mm Square ground plane	
Polarization	Dual Feed		Each axis is linear and independent	
Frequency Temperature Coefficient	0±20	ppm/oC	-40oC to +85oC	

Note: (1) Patch Antenna is Located on 70 mm Square ground plane PA1590MI6G-126-1ZM, G: Green parts (RoHS compliance)
-126 are the code of project number, -1ZM show of appendix

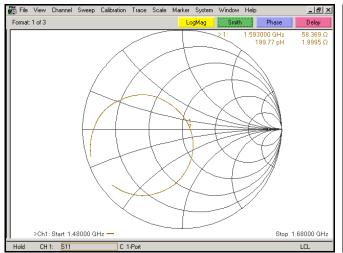
2. Dimension



UNLESS OTHER SPECIFIED X=± X.X=± ANGLES=±	TOLERANCES ON : X.XX=± HOLEDIA=±	<u>G</u>	INPAQ TECHNOLOGY CO	., LTD.
SCALE: DRAWN BY:詹雅萍 DESIGNED BY:李守仁	UNIT: mm CHECKED BY:鄭大福 APPROVED BY:曾源標	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		OR USED AS
TITLE: PA1590MI6G-126-1ZM ENGINEERING SPECIFICATION		DOCUMENT NO.	ENS000064090	SPEC REV.

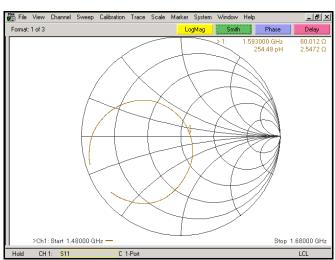
3. Patch-V0 Antenna Performance and Characteristic Data on 70 mm Square ground plane

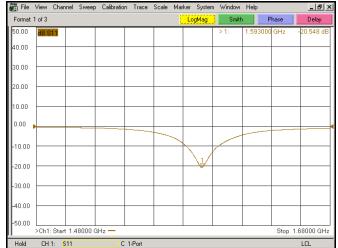
3.1 Smith Chart/Return Loss





Port 1

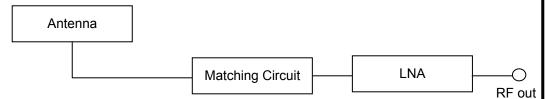




Port 2

UNLESS OTHER SPECIFIED TOLERANCES ON : $X=\pm \qquad X.XX=\pm \qquad X.XX=\pm \qquad ANGLES=\pm \qquad HOLEDIA=\pm \qquad \qquad$		<u>G</u>	INPAQ TECHNOLOGY CO	., LTD.
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPA		
DRAWN BY:詹雅萍	CHECKED BY:鄭大福	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USE THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS		
DESIGNED BY:李守仁	APPROVED BY:曾源標	DEVICES WITHOUT PERMISSION		
TITLE: PA1590MI6G-126-1ZM		DOCUMENT	ENS000064090	SPEC REV.
ENGINEERING SPECIFICATION		NO.	EN300004090	P1

4. Matching Circuit

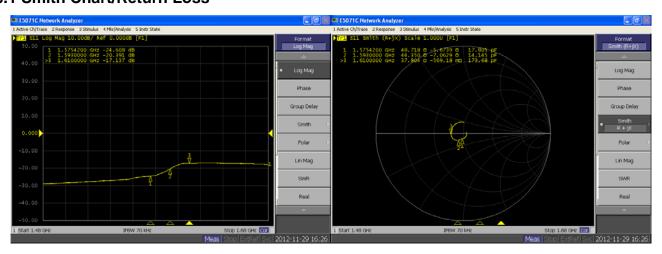


5. Antenna with Matching Circuit Typical Electrical Properties

	<u> </u>		•
Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1593 ± 3	MHz	On 70x70 mm Ground Plane
Bandwidth	Wide	MHz	S11≦-10dB
Gain at Zenith	4.5 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

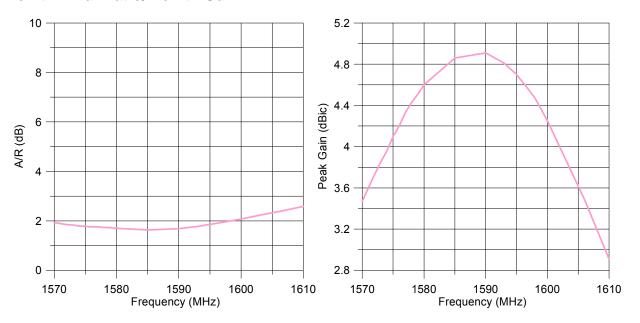
6. Antenna with Matching Circuit Performance and Characteristic Data on 70x70 mm Ground

6.1 Smith Chart/Return Loss



UNLESS OTHER SPECIFIED	TOLERANCES ON:			
$X=\pm$ $X.X=\pm$	$X.XX = \pm$	(Ja	INPAQ TECHNOLOGY CO	., LTD.
ANGLES=± HOLEDIA=±				
SCALE:	UNIT: mm		S AND SPECIFICATIONS ARE THE PROPERT	
DRAWN BY:詹雅萍	CHECKED BY:鄭大福	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS		
DESIGNED BY:李守仁	APPROVED BY:曾源標	DEVICES WITHOUT PERMISSION		
TITLE: PA1590MI6G-126-1ZM		DOCUMENT	ENS000064090	SPEC REV.
ENGINEERING SPECIFICATION		NO.	LN300004090	P1

6.2 Zenith Axial Ratio/ Zenith Gain



7. Explanation of Appendix

PA1590MI6G-126-1ZM

(1)(2)(3)

(1) 1 = 3 mm Pin Length

(2) Adhesive Tape Z 22×22mm

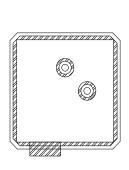
Adhesive Transfer Tape Specification

2.1 TAPE: Nitto 5000NS 22x22x0.16mm

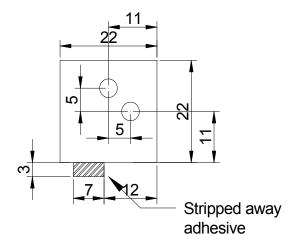
2.2 Thickness: 0.16 mm

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

2.4 Dimension: mm



Patch Bottom



Tolerance: ±0.5 mm

UNLESS OTHER SPECIFIED	TOLERANCES ON:			
$X=\pm$ $X.X=\pm$	$X.XX = \pm$	$\mathbf{G}_{\mathbf{S}}$	INPAQ TECHNOLOGY CO	., LTD.
ANGLES=±	HOLEDIA=±			
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ		
DRAWN BY:詹雅萍	CHECKED BY:鄭大福	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED. THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS (
DESIGNED BY:李守仁	APPROVED BY:曾源標	DEVICES WITHOUT PERMISSION		
TITLE: PA1590MI6G-126-1ZM		DOCUMENT	ENS000064090	SPEC REV.
ENGINEERING SPECIFICATION		NO.	EN300004090	P1

(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 126



Patch top electrode

UNLESS OTHER SPECIFIED TOLERANCES ON :				
$X=\pm$ $X.X=\pm$	$X.XX = \pm$	INPAQ TECHNOLOGY CO.,		., LTD.
ANGLES=± HOLEDIA=±				
SCALE:	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPA		
DRAWN BY:詹雅萍 CHECKED BY:鄭大福		TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR		
DESIGNED BY:李守仁	APPROVED BY:曾源標	DEVICES WITHOUT PERMISSION		
TITLE: PA1590MI6G-126-1ZM		DOCUMENT	ENS000064090	SPEC REV.
ENGINEERING SPECIFICATION		NO.	L143000004090	P1