

PA1590MF3G-107-28

Engineering Specification

1. Typical Electrical Properties

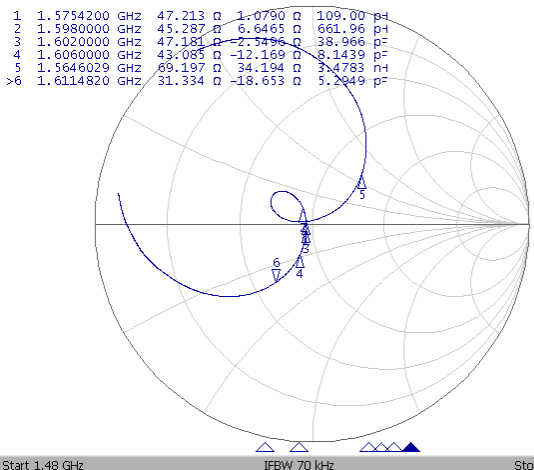
Characteristics	Specification	Unit	Conditions
Center Frequency	1588 ± 5	MHz	By Test housing
Polarization	RHCP		By Test housing
S11	< -20	dB	By Test housing
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

Note: (1) Patch Antenna is Located on 70x70mm Ground Plate
 PA1590MF3G-107-28 , G : Green parts (RoHS compliance)
 -107 are the code of project number, -28 show of appendix

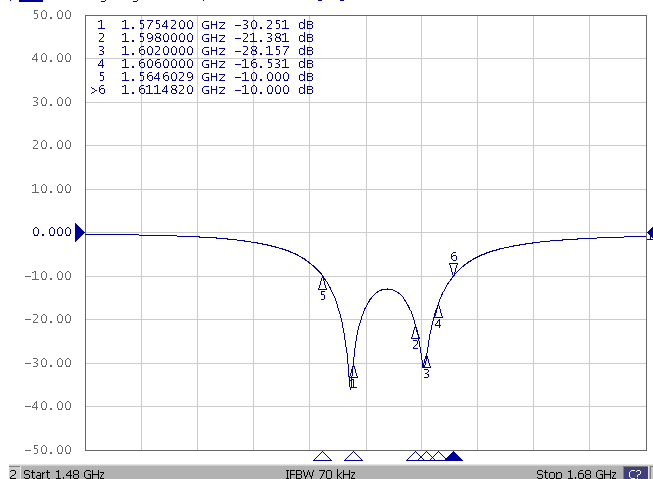
2. Patch-V0 Antenna Performance and Characteristic Data on 70x70 mm Ground Plane (RFN1330121)

2.1 Smith Chart/Return Loss

S22 Smith (R+jX) Scale 1.000U [F1]



S22 Log Mag 10.00dB/ Ref 0.000dB [F1]



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY: 羅孟仙

CHECKED BY: 鄭大福

DESIGNED BY:許瑞麟

APPROVED BY:曾源標

TITLE : PA1575MF3G-107-28
 Engineering Specification



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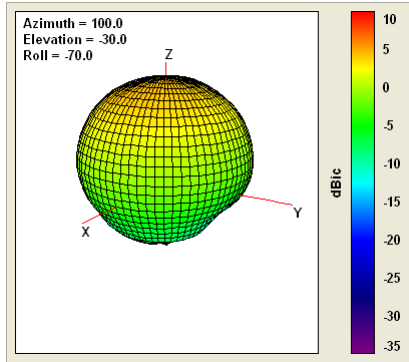
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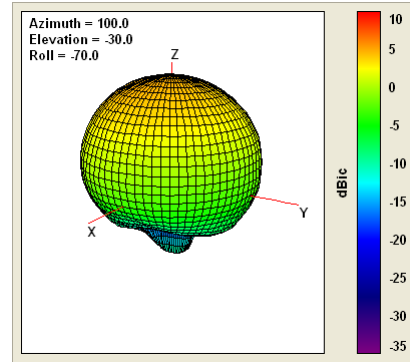
PAGE REV.

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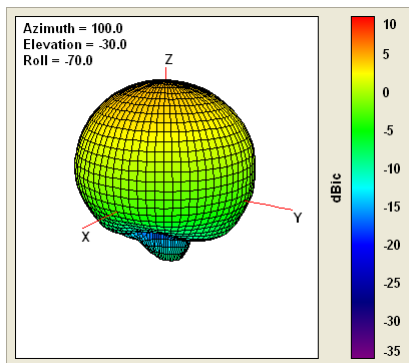
2.2 Gain Pattern (Unit : dBic)



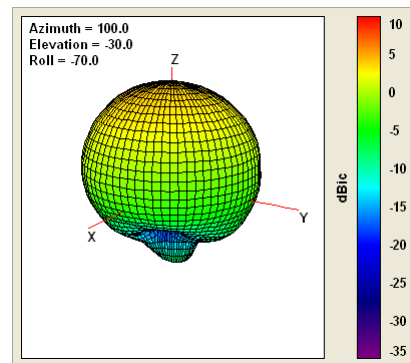
1575.42MHz



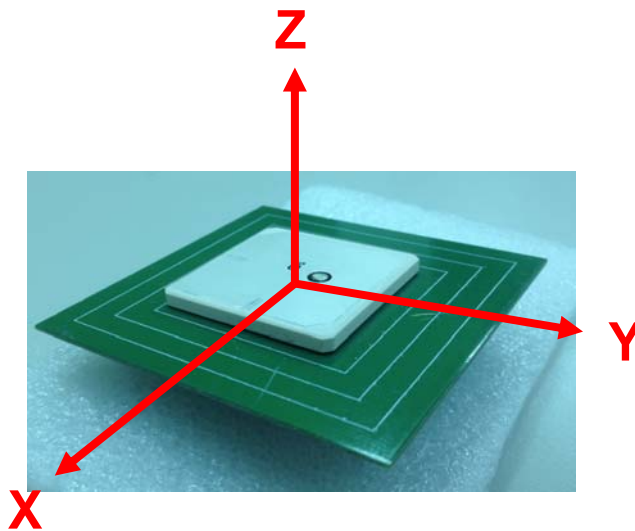
1598MHz



1602MHz



1606MHz



UNLESS OTHER SPECIFIED TOLERANCES ON :

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ANGLES=± HOLEDIA=±



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SCALE :

UNIT : mm

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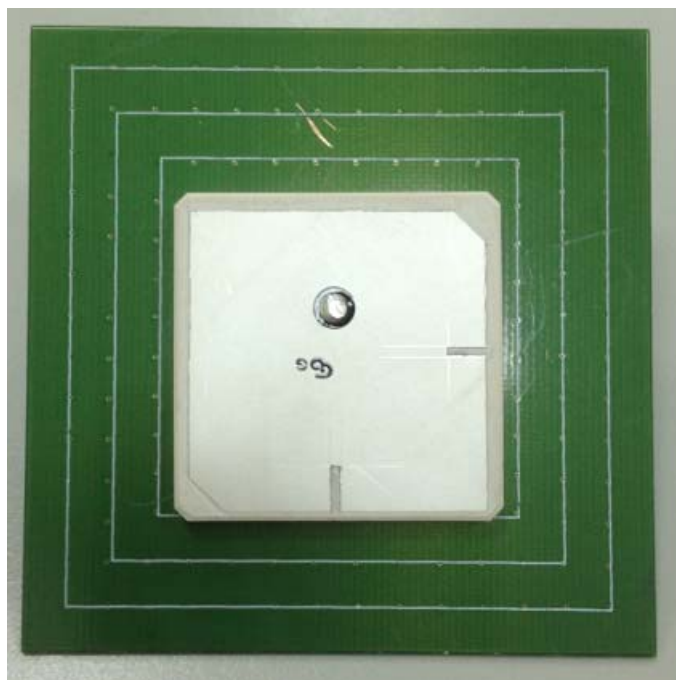
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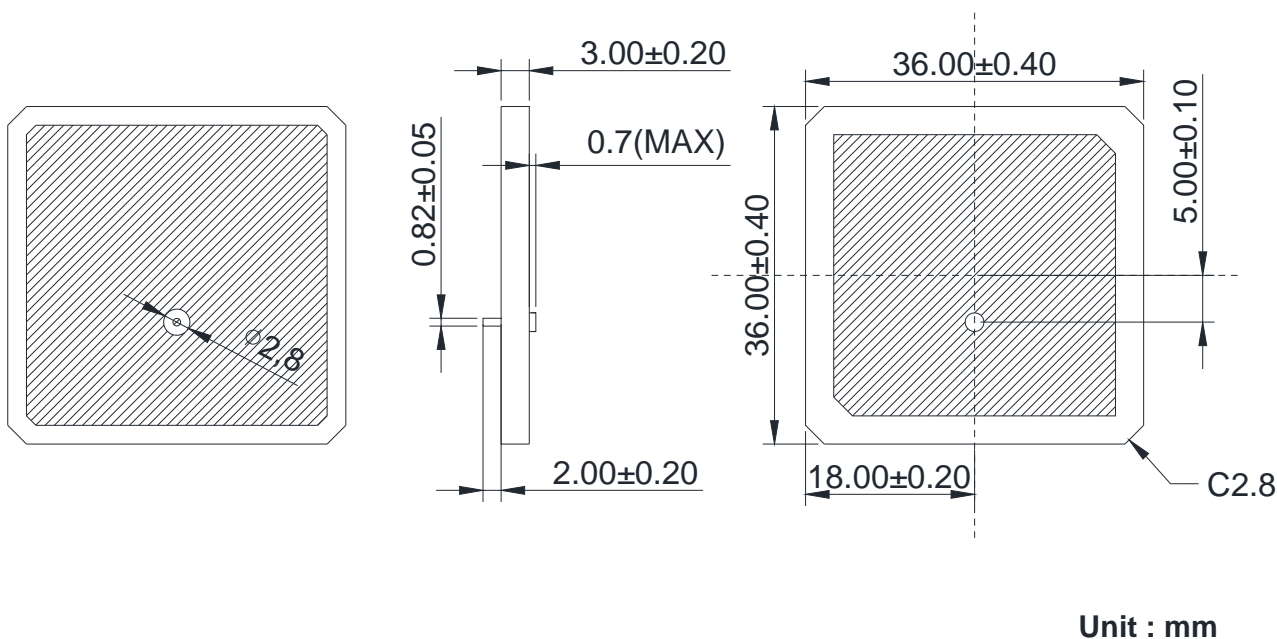
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2.3 Antenna Direction



3. Dimension



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±



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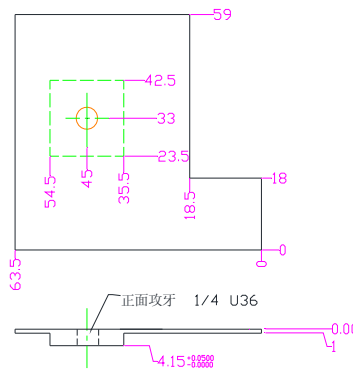
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4. Typical Electrical Properties on INPAQ Test Ground

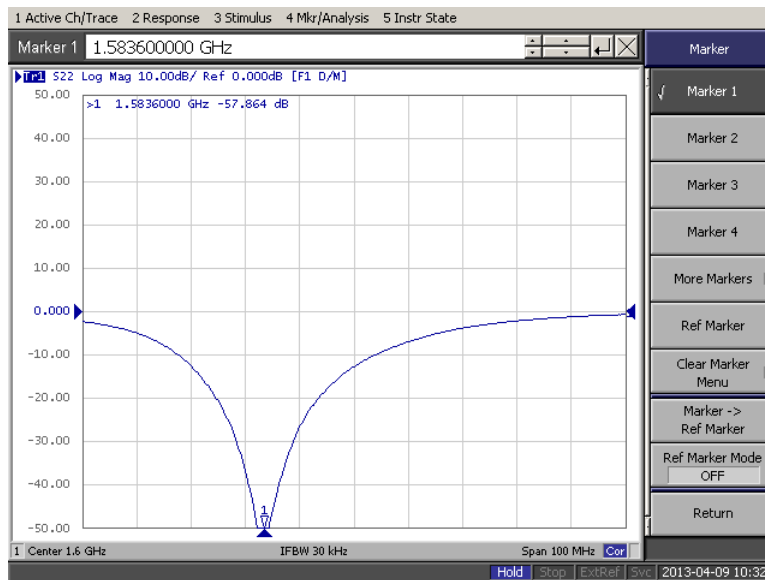
Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1583.60± 5	MHz	By Test on INPAQ Ground Plane
S11	<-20	dB	By Test on INPAQ Ground Plane
Polarization	RHCP		By Test housing
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

5. Test Condition Ground Plane

PA1590MF3G-107-28-V0
2013-04-07



6. Return Loss Characteristics



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±



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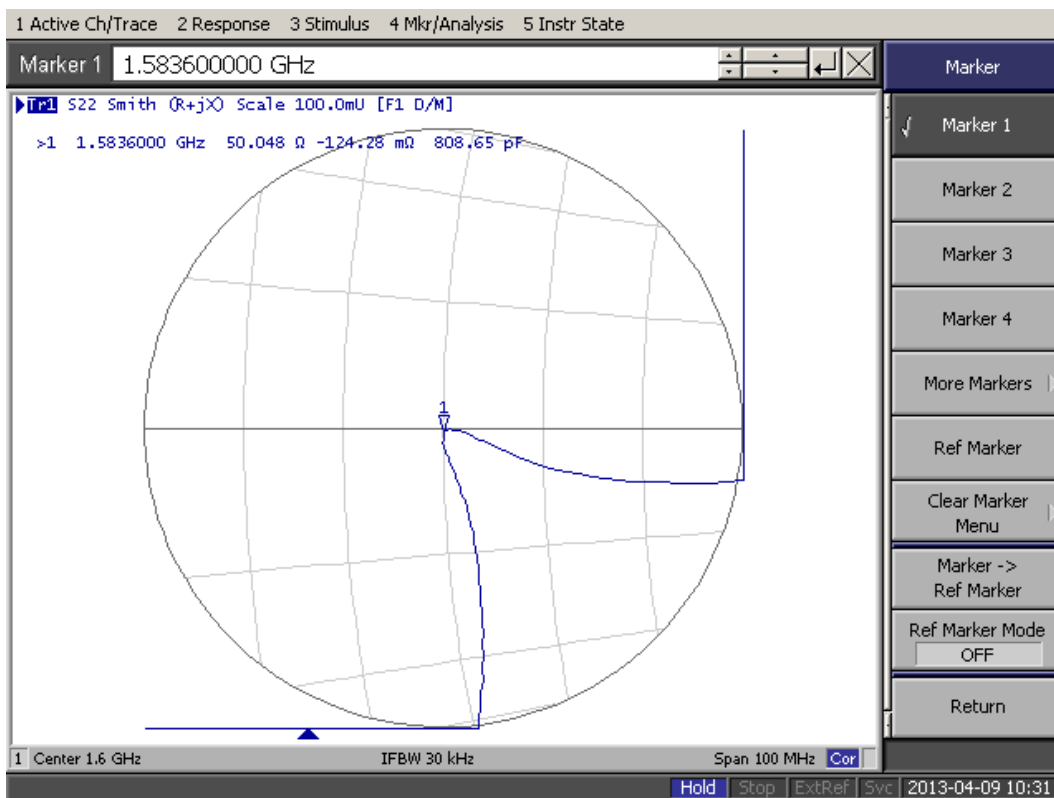
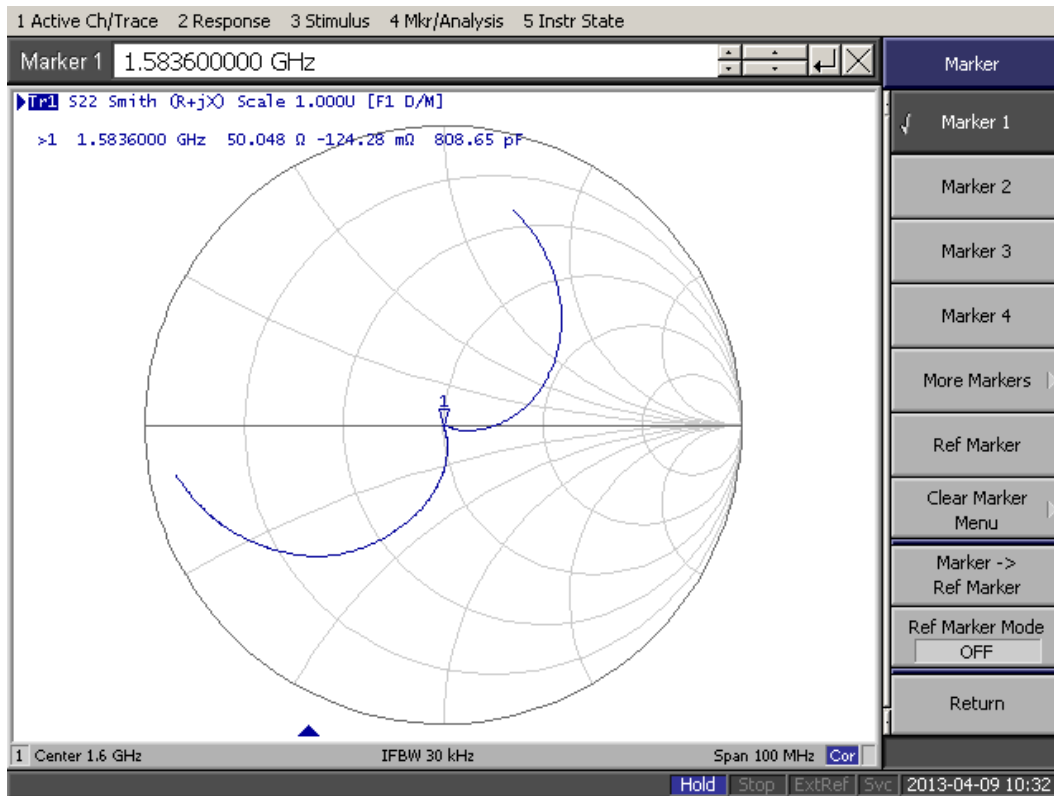
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7. Measured Input Impedance on a Smith Chart



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

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8. Explanation of Appendix

PA1590MF3G-107-28 (1)(2)

(1) 2 = 2.0 mm pin length

(2) Adhesive Tape **8** 22x22mm

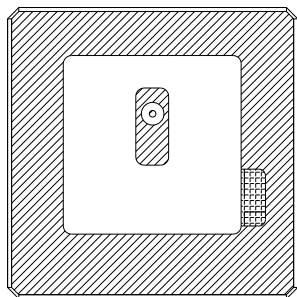
Adhesive Transfer Tape Specification

2.1 TAPE : Nitto 5000NS 22x22x0.16mm

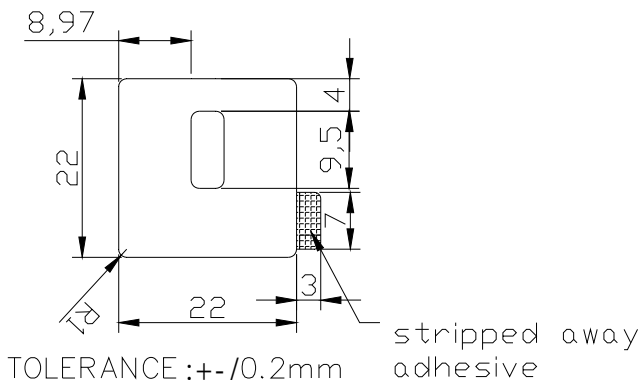
2.2 Thickness : 0.16 mm

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

2.4 Dimension : mm



Unit:mm



UNLESS OTHER SPECIFIED TOLERANCES ON :

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ANGLES=± HOLEDIA=±



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