PA1590MF3G-107-28

Engineering Specification

1. Typical Electrical Properties

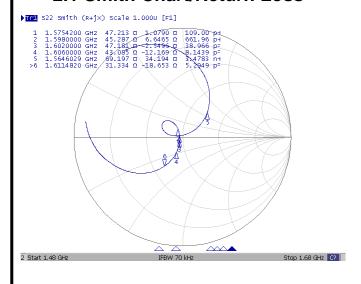
Characteristics	Specification	Unit	Conditions
Center Frequency	1588 ± 5	MHz	By Test housing
Polarization	RHCP		By Test housing
S11	<-20	dB	By Test housing
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

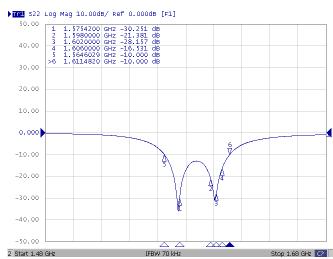
Note: (1) Patch Antenna is Located on 70x70mm Ground Plate PA1590MF3G-107-28, G: Green parts (RoHS compliance) -107 are the code of project number, -28 show of appendix

2. Patch-V0 Antenna Performance and Characteristic Data on

70x70 mm Ground Plane (RFN1330121)

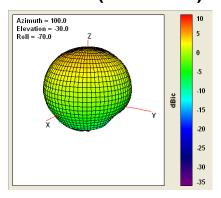
2.1 Smith Chart/Return Loss

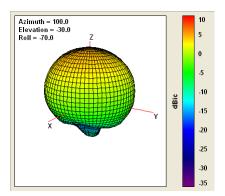




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DESIGNED BY:許瑞麟	APPROVED BY:曾源標	DEVICES WITHOU		7.11.01.00
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Engineering Specification		NO.	L143000039120	P0

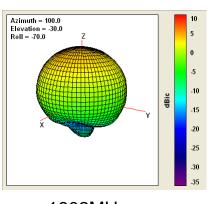
2.2 Gain Pattern (Unit : dBic)

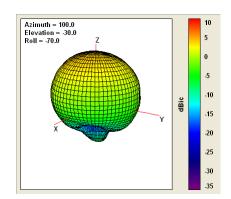




1575.42MHz

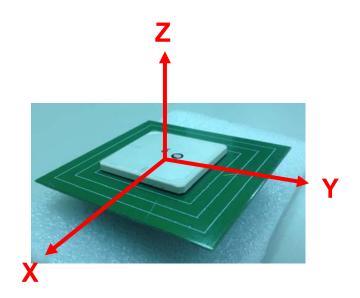
1598MHz





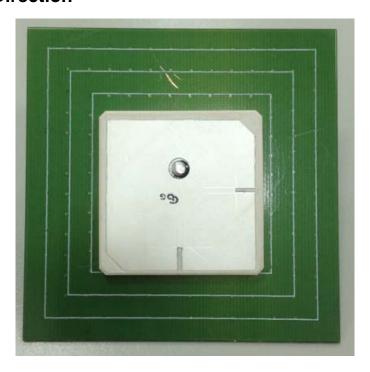
1602MHz

1606MHz

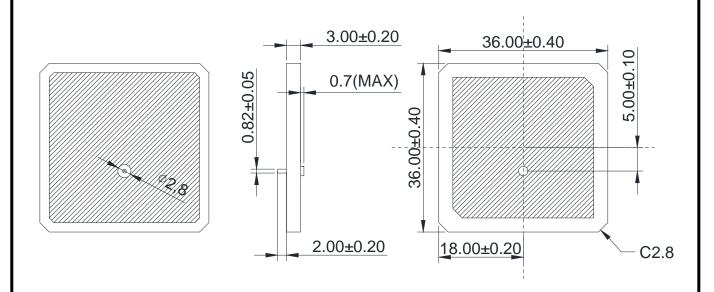


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2.3 Antenna Direction



3. Dimension



Unit: mm

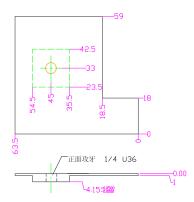
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4. Typical Electrical Properties on INPAQ Test Ground

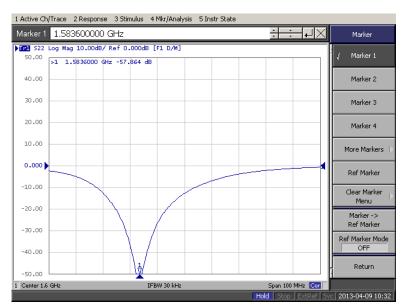
Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1583.60± 5	MHz	By Test on INPAQ Ground Plane
S11	<-20	dB	By Test on INPAQ Ground Plane
Polarization	RHCP		By Test housing
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

5. Test Condition Ground Plane

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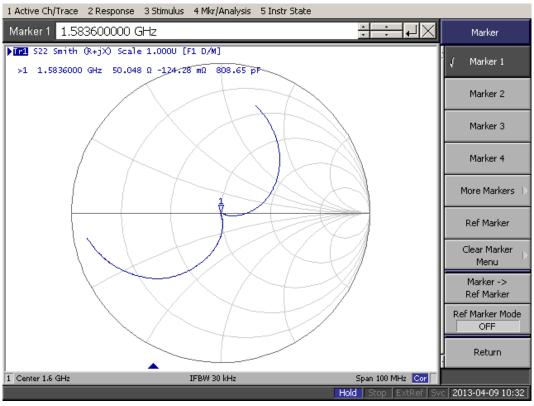


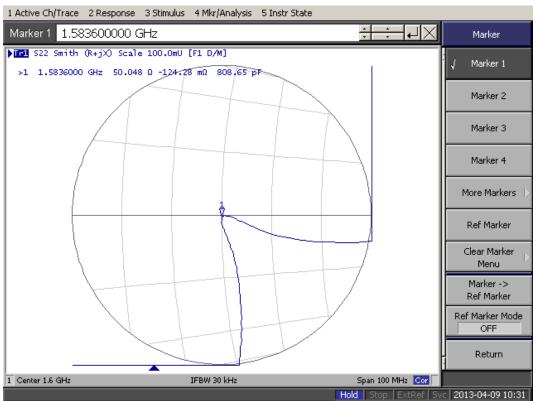
6. Return Loss Characteristics



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ANGLES=± H	IOLEDIA=±			·
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DESIGNED BY:許瑞麟	APPROVED BY:曾源標	DEVICES WITHOU		. /
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7. Measured Input Impedance on a Smith Chart





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Engineering Specification		NO.	L143000039120	P0

8. Explanation of Appendix

PA1590MF3G-107-28

(1) 2 = 2.0 mm pin length

(2) Adhesive Tape 8 22×22mm

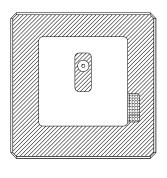
Adhesive Transfer Tape Specification

2.1 TAPE: Nitto 5000NS 22x22x0.16mm

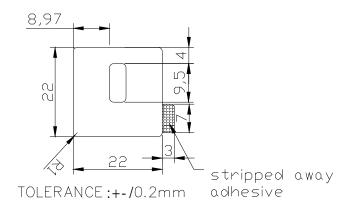
2.2 Thickness: 0.16 mm

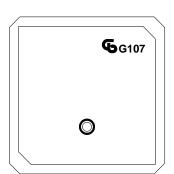
2.3 Release Liner: 0.1mm (typ.) printed paper or paper

2.4 Dimension: mm



Unit:mm





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Engineering Specification		NO.	LN3000039120	P0