PADGPS-I4H4G-101-1Z

Engineering Specification

1. Typical Electrical Properties

GPS L1:

Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1575.42 ± 3	MHz	By Test on 70x70 mm Ground
Zenith Gain	4 Typ.	dBic	By Test on 70x70 mm Ground
S ₁₁	≦-10	dB	By Test on 70x70 mm Ground
Polarization	RHCP		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

GPS L2:

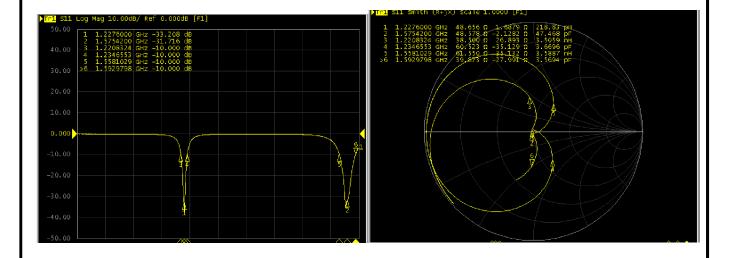
Characteristics	Specification	Unit	Conditions
Patch Center Frequency	1227.6 ± 3	MHz	By Test on 70x70 mm Ground
Zenith Gain	5 Typ.	dBic	By Test on 70x70 mm Ground
S ₁₁	≦-10	dB	By Test on 70x70 mm Ground
Polarization	RHCP		
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

Note: (1) Patch Antenna is located on 70x70 mm Ground PADGPS-I4H4G-101-1Z, G: Green parts (RoHS compliance) -101 are the code of project number, -1Z show of appendix

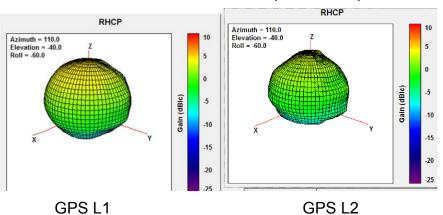
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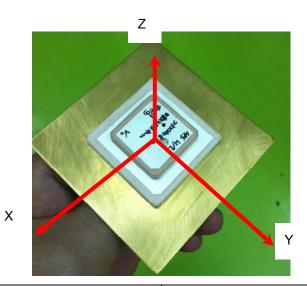
2. Patch Antenna Performance and Characteristic Data on 70x70 mm Ground

2.1 Smith Chart/S₁₁



2.2 3D Circular Polarization Gain Pattern: RHCP (Unit : dBic)





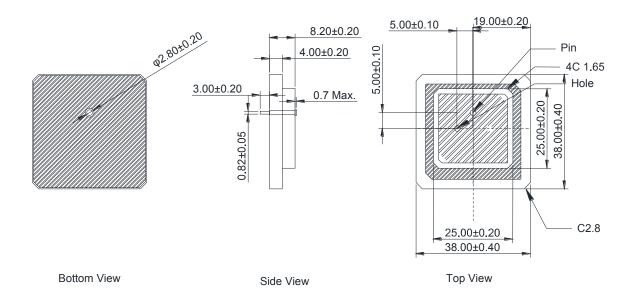
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2.3 Antenna on 70x70 m Ground:



3. Dimension

Unit: mm



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4. Typical Electrical Properties on INPAQ Test Ground

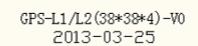
GPS L1:

Characteristics	Specification	Unit	Conditions
Center Frequency	1575 ± 3	MHz	By Test Ground Plane
Polarization	RHCP		By Test Housing
S11	< -20	dB	By Test Ground Plane
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

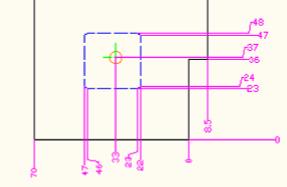
GPS L2:

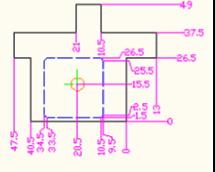
Characteristics	Specification	Unit	Conditions
Center Frequency	1219 ± 3	MHz	By Test Ground Plane
Polarization	RHCP		By Test Housing
Impedance	(19.75±8)+j(17.33±8)	Ω	By Test Ground Plane
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

5. Test Condition Ground Plane

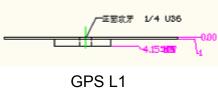


L2(38*38*4)-V0-02 2013-04-17





正面俯视图, 虚线部分在 下方





Unit: mm

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X= X.X= X.XX=
ANGLES= HOLEDIA=
SCALE: UNIT: mm
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DESIGNED BY:賴右城 APPROVED BY:謝立庭

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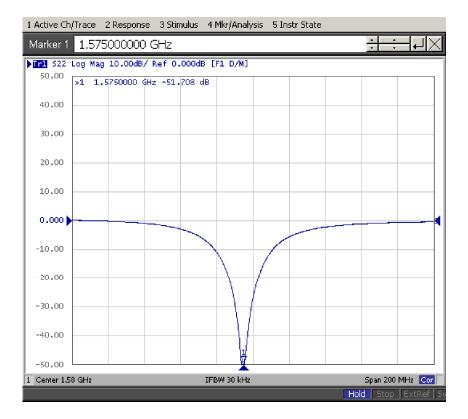
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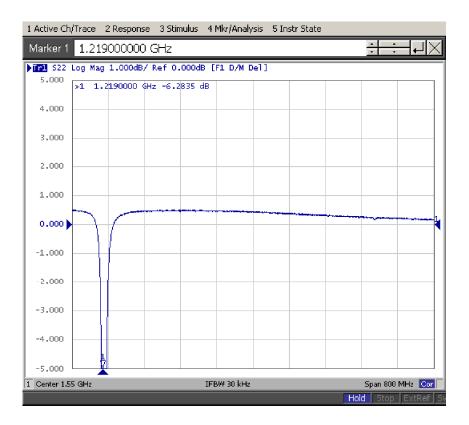
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6. Return Loss Characteristics

GPS L1:



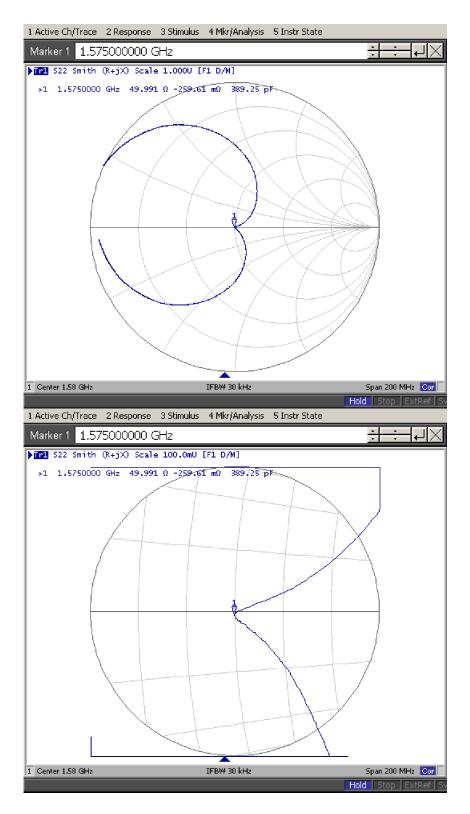
GPS L2:



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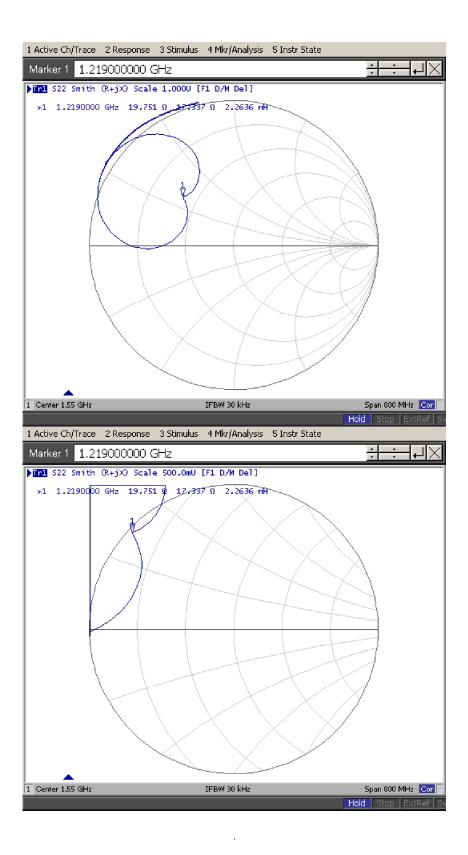
7. Measured Input Impedance on a Smith Chart

GPS L1:



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GPS L2:



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E	ENGINEERING SPECIFICATION		NO.	EN2000001330	P2

8. Explanation of Appendix

PADGPS-I4H4G-101-1Z

(1)(2)

(1) Pin = 3 mm

(2) Adhesive Tape Z 32×32mm

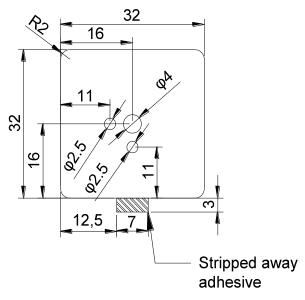
Adhesive Transfer Tape Specification

2.1 TAPE: Nitto 5000NS 32x32x0.16mm

2.2 Thickness: 0.16 mm

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

2.4 Dimension: mm



Tolerance: ±0.5 mm

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