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Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 18.5x18.5x4.0mm GPS/Glonass Pin Mount

Series: Ceramic Patch

PART NUMBER: W3208



Features:

- 1575 / 1602 MHz Dualband singe feed antenna
- Size 18.5 x 18.5 x 4 mm
- RHCP Polarization
- Zenith Gain +2 / 3.5 dBic
- Pin mounting
- Tray packing
- RoHS Compliant

Applications:

- GPS and Glonass satellite receivers
- Tracking, Navigation, Satellite Positioning
- Fleet management
- Asset tracking

All dimensions are in mm / inches

Preliminary

RoHS COMPLIANT

Issue: 1910P

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ELECTRICAL SPECIFICATIONS

Antenna Type	Patch Antenna
Frequency	1565-1585/1598-1606MHz
Nominal Impedance	50 Ω
Return Loss(GPS-C/A / GLONASS)	-15dB/-9dB
Radiation Pattern	Omni
Typical RHCP Gain @GPS	1dBic
Typical RHCP Gain @GLONASS	3dBic
Typical Efficiency @GPS	60%
Typical Efficiency @GLONASS	75%
Polarization	RHCP

MECHANICAL SPECIFICATIONS

Overall Length	18.5mm
Weight	6.23g

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ 105 ° C
Storage Temperature	-40 ~ 105 ° C
RoHS Compliant	Yes

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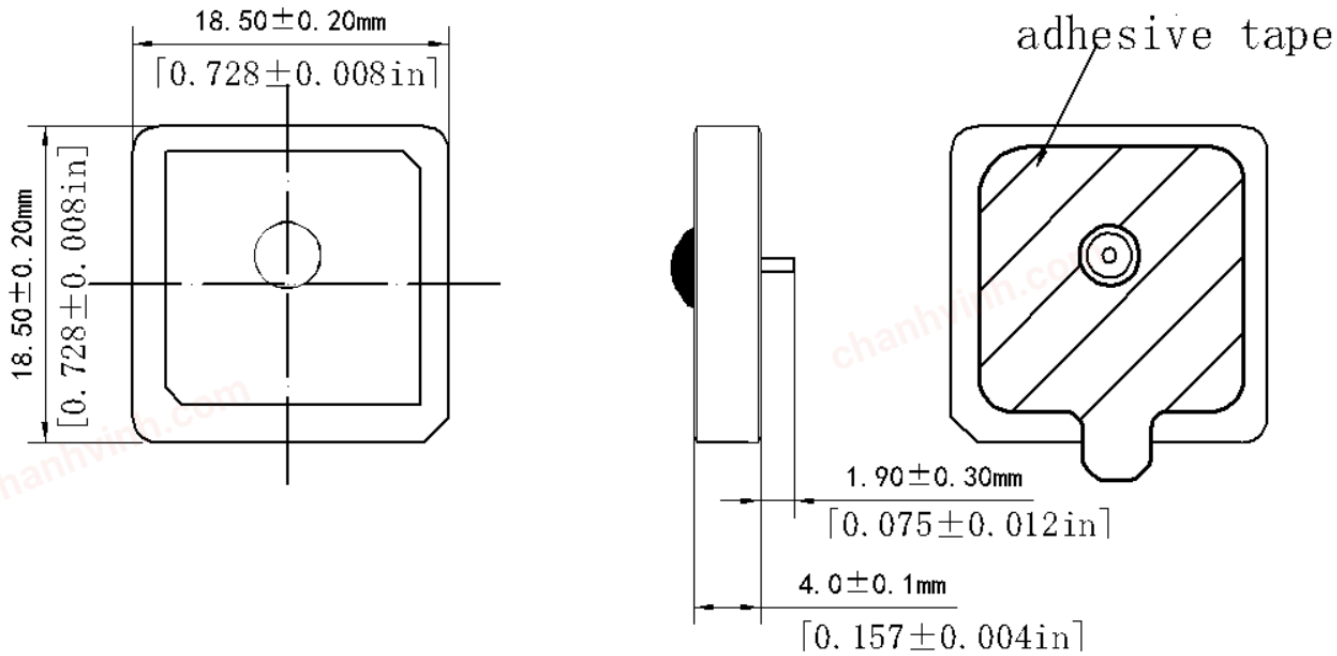
MECHANICAL DRAWING



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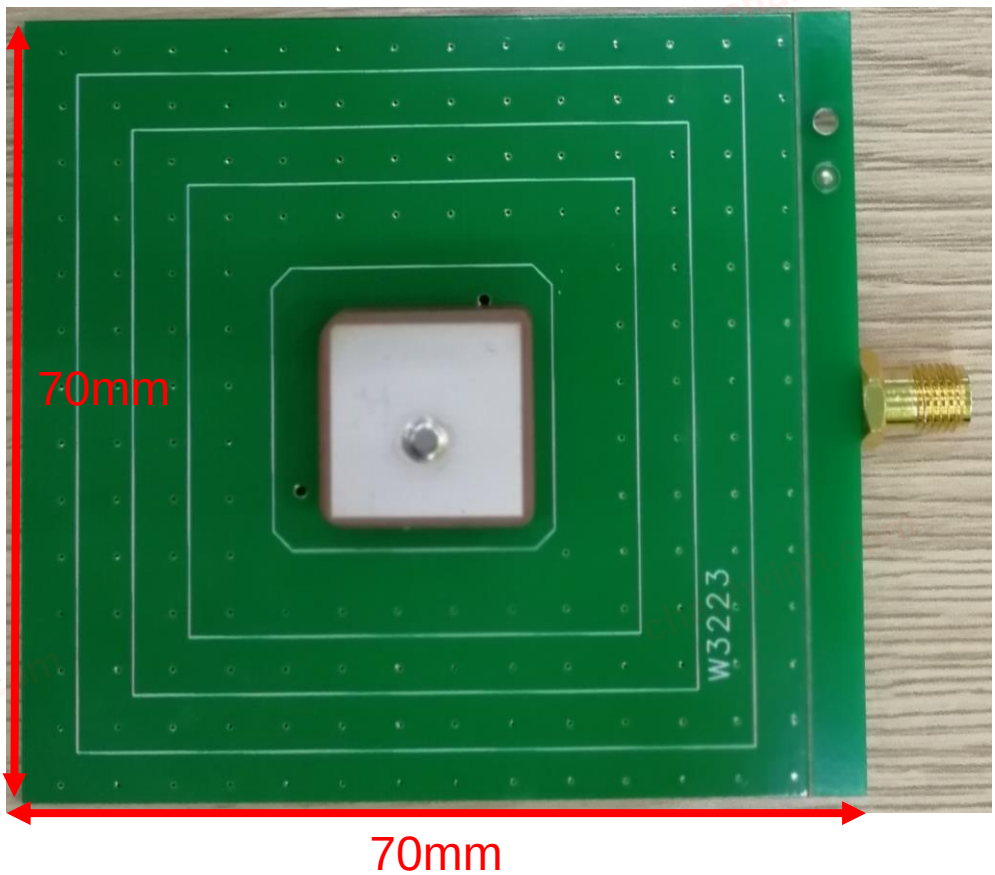
TEST SETUP



Test on 70mm*70mm GP.

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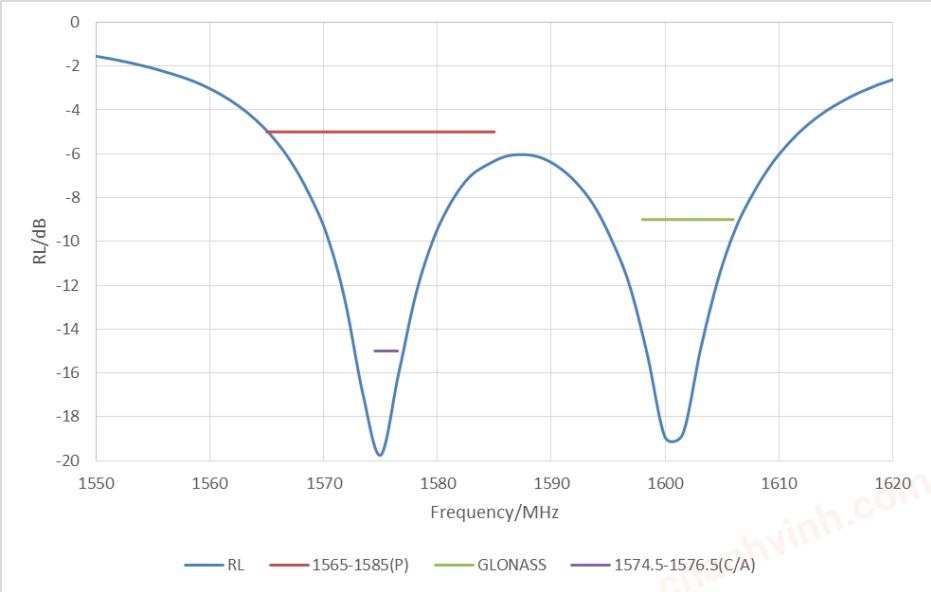
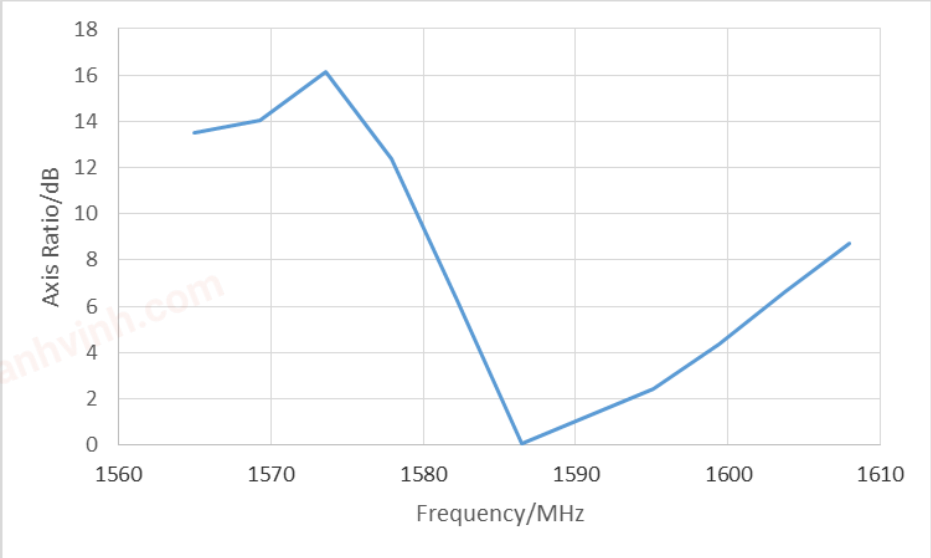
CHARTS

Return Loss vs Frequency



Axial Ratio vs Frequency



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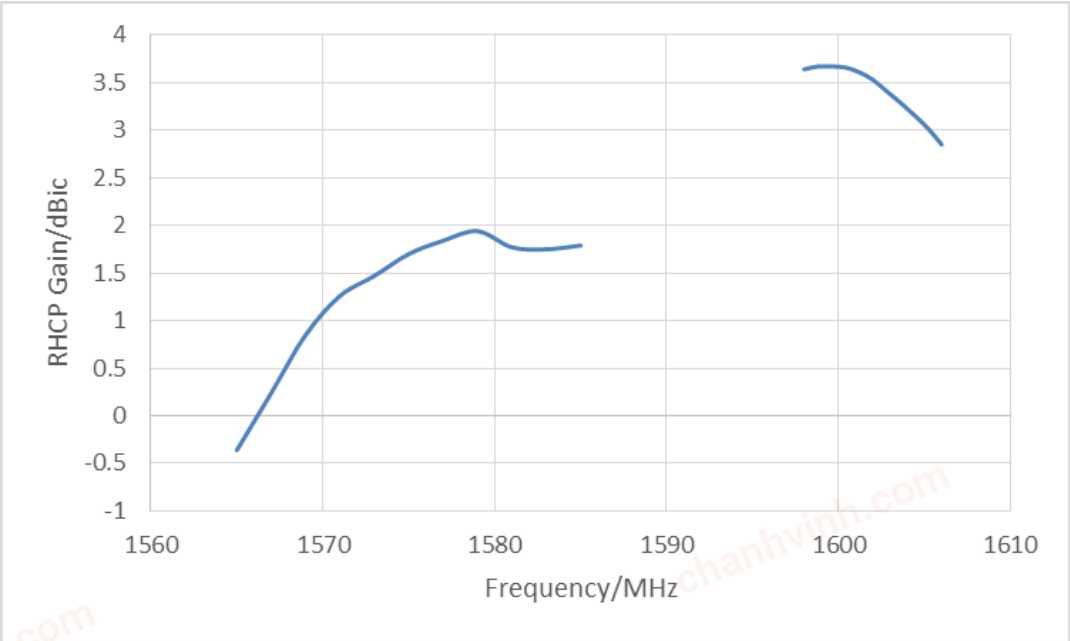
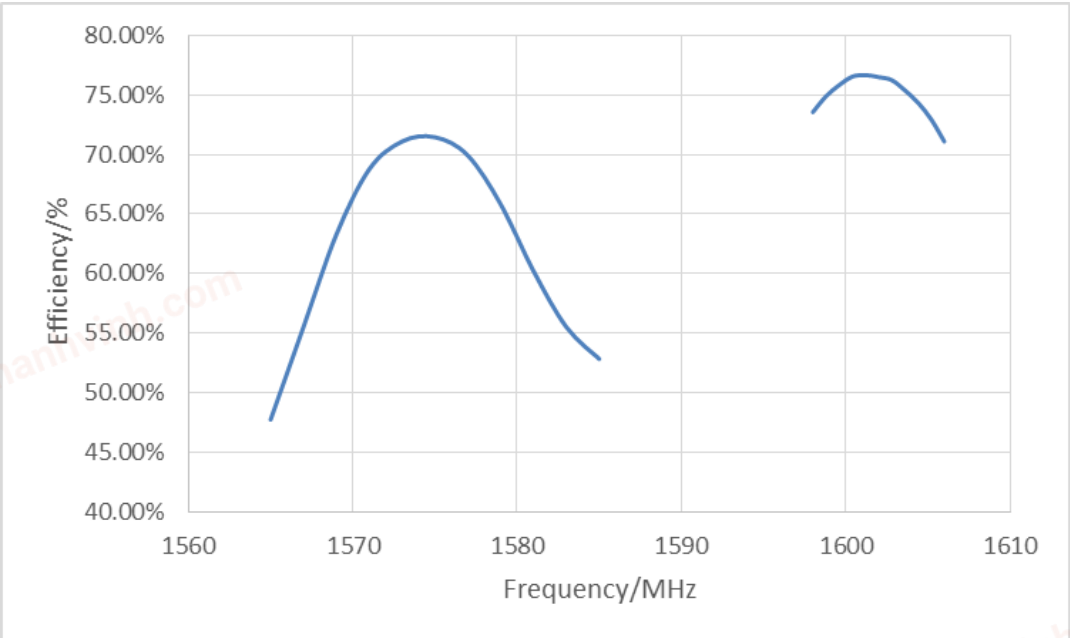
RHCP Gain vs Frequency



Radiation Efficiency vs Frequency



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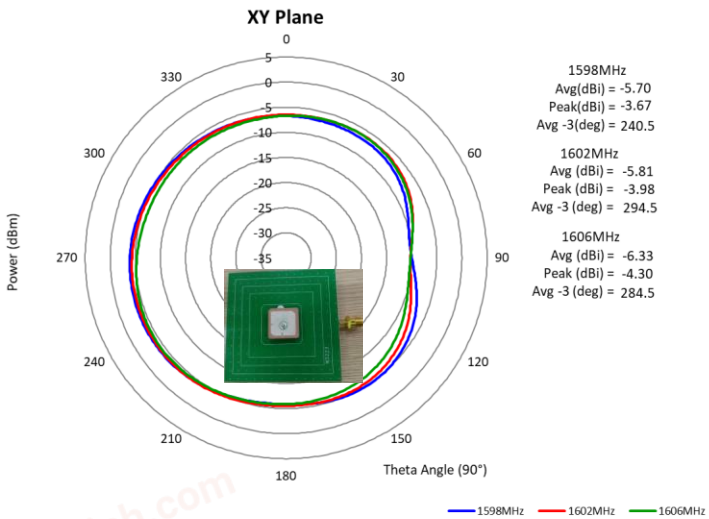
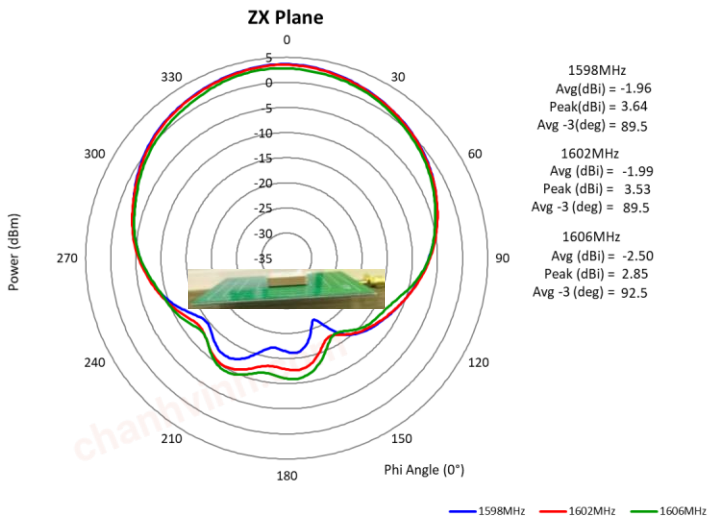
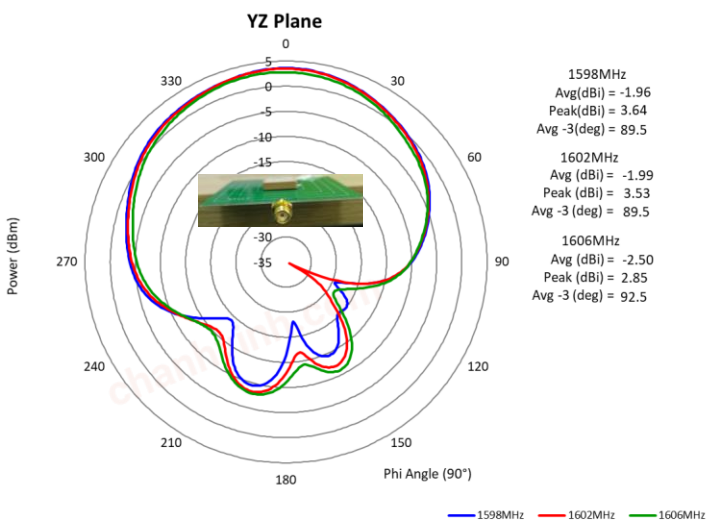
CHARTS

Radiation Pattern 2D/GLONASS







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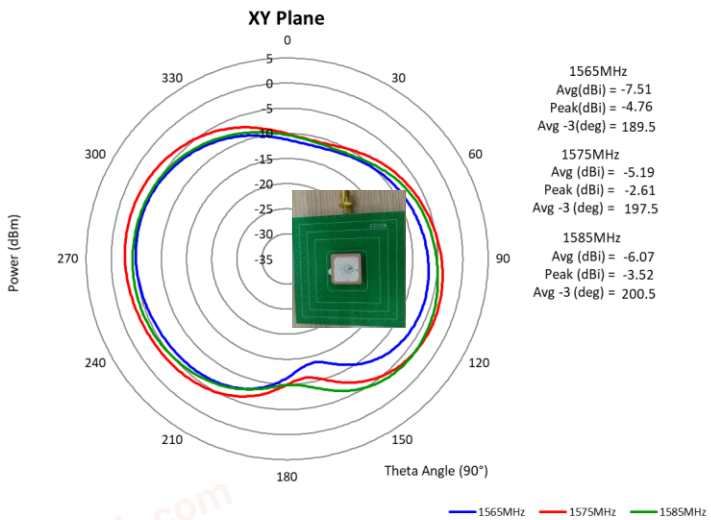

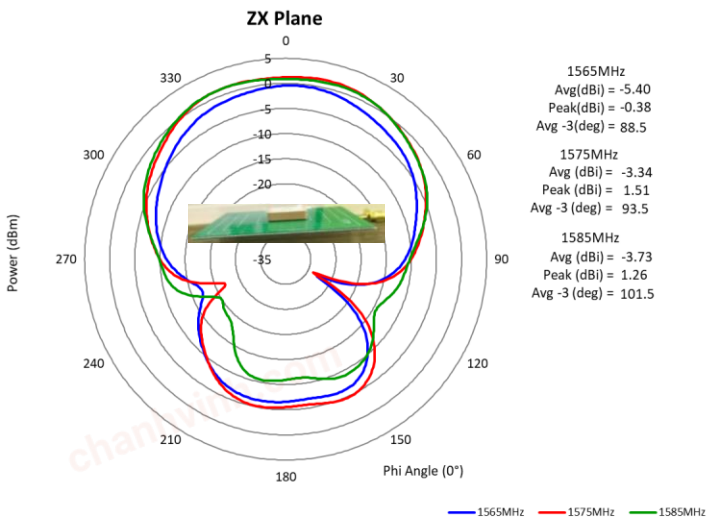

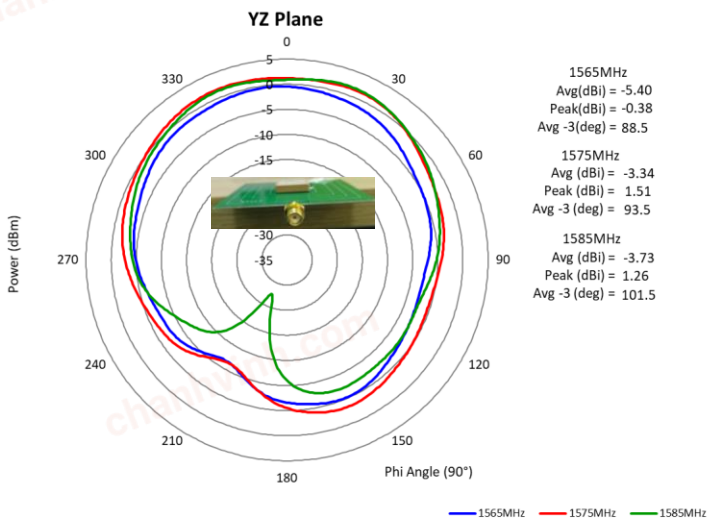

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PACKAGING

Per package base	50 elements
Per vacuum bag	6 package bases
Per inner box	1 vacuum bag
Per package	4 inner boxes (1200 elements)

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