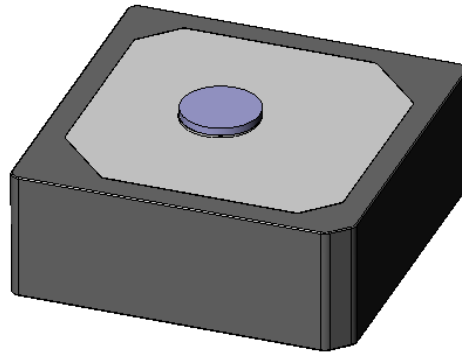


**GNSS patch antenna**

**1.57542GHz / 1.598-1.606GHz**

**W3216**

Series : **ANTENNA**



All dimensions are in inches (mm)

**Issue: 1444**

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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**GNSS patch antenna**

**1.57542GHz / 1.598-1.606GHz**

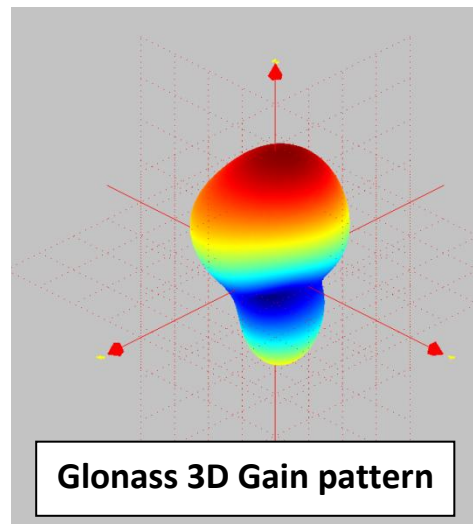
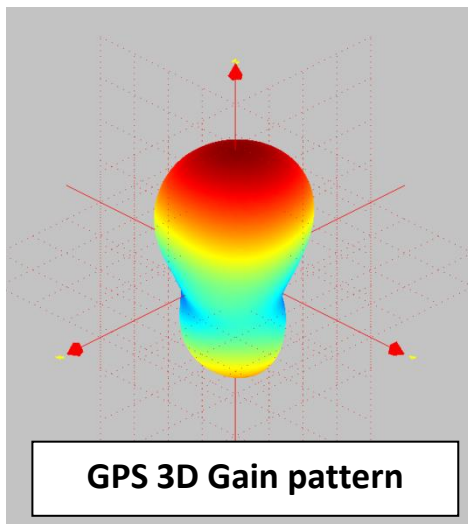
**W3216**

Series : **ANTENNA**

\*) Typical performance (measured on 50x50mm ground plane)

**ELECTRICAL SPECIFICATIONS \*)**

Frequency	1.57542 / 1.598-1.606	GHz
Nominal Impedance	50	Ω
RHCP Zenith Gain @ 1.57542GHz	-2	dBic
RHCP Zenith Gain @ 1.598-1.606GHz	-2	dBic
Combined Zenith Gain @ 1.57542GHz	2	dBi
Combined Zenith Gain @ 1.598-1.606GHz	2	dBi
Efficiency @ 1.57542GHz	60	%
Efficiency @ 1.598-1.606GHz	60	%
Polarization		RHCP



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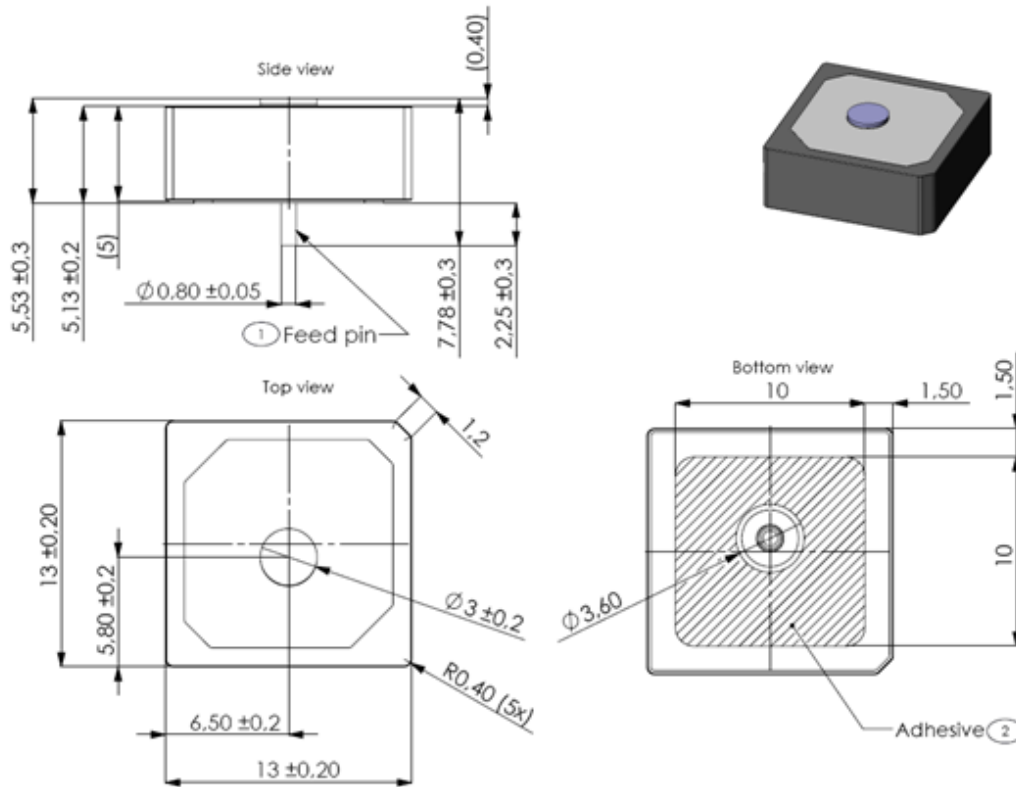
**GNSS patch antenna**

**1.57542GHz / 1.598-1.606GHz**

**W3216**

Series : **ANTENNA**

Antenna Dimensions



No.	Item	Description
1	Feed pin	Silver plated brass
2	Adhesive	0.13 mm thick double sided tape

**Notes:**

Feed pin manual soldering conditions:

- 300°C max soldering iron temperature, 5 seconds max
- Typical lead free solders are applicable

Electrode silver metallization may tarnish if antenna is stored / used in corrosive environment especially where chloride, sulphur or sulfide, alkali or acid salts exist in the air. Corrosive gases may cause oxidation of electrodes and reduce solderability

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**GNSS patch antenna****1.57542GHz / 1.598-1.606GHz****W3216**Series : **ANTENNA****MECHANICAL SPECIFICATIONS**

Color	Grey
Size (WxLxH)	13x13x5 mm
RoHS Compliance	Yes

**ENVIRONMENTAL SPECIFICATIONS**

Operating temperature	-40...+85 °C
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**TRAY PACKING SPECIFICATIONS**

100pcs antennas per tray  
17pcs trays per box  
one empty tray per box  
1600pcs antennas per box  
Box size 520\*368\*264mm

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**GNSS patch antenna**

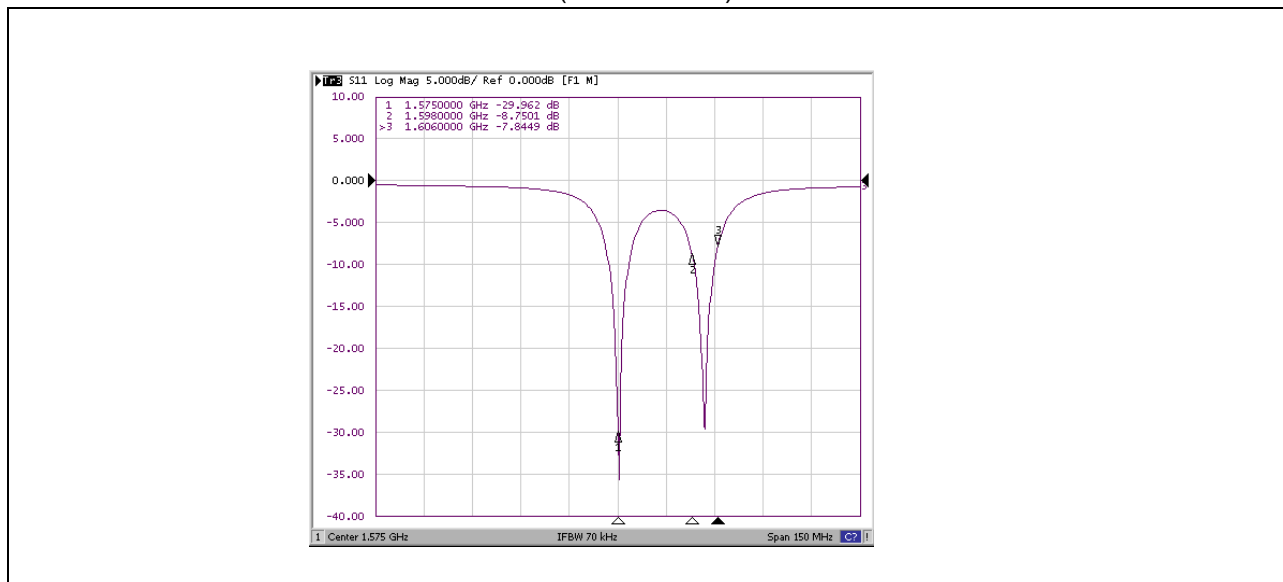
**1.57542GHz / 1.598-1.606GHz**

**W3216**

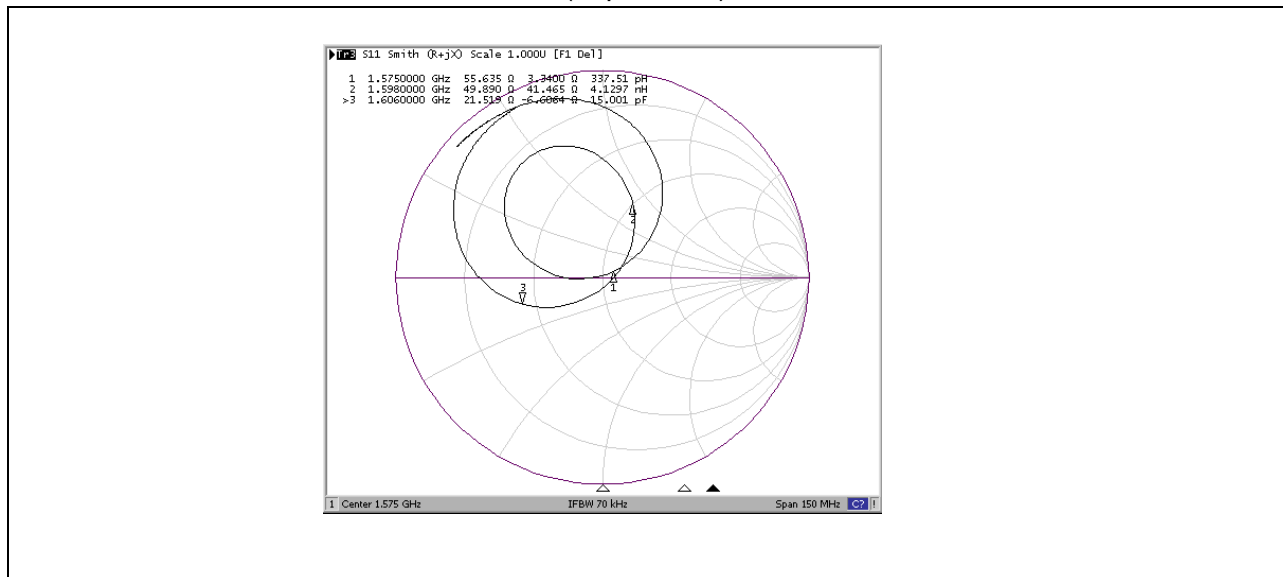
Series : **ANTENNA**

**Charts**

(Return Loss)



(Impedance)



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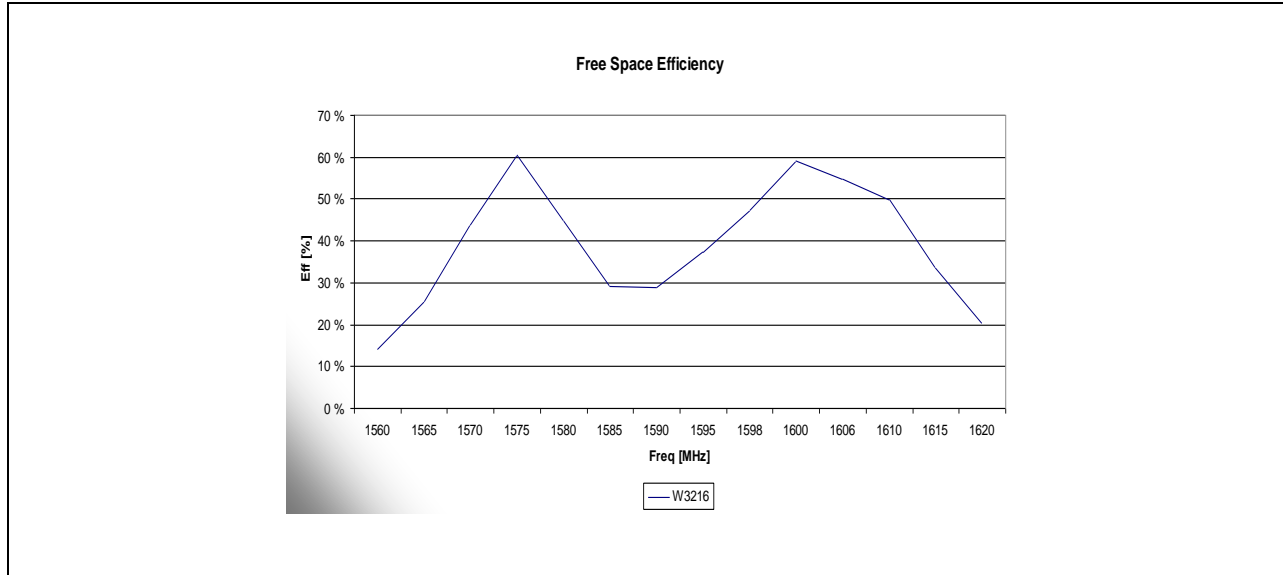
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**1.57542GHz / 1.598-1.606GHz**

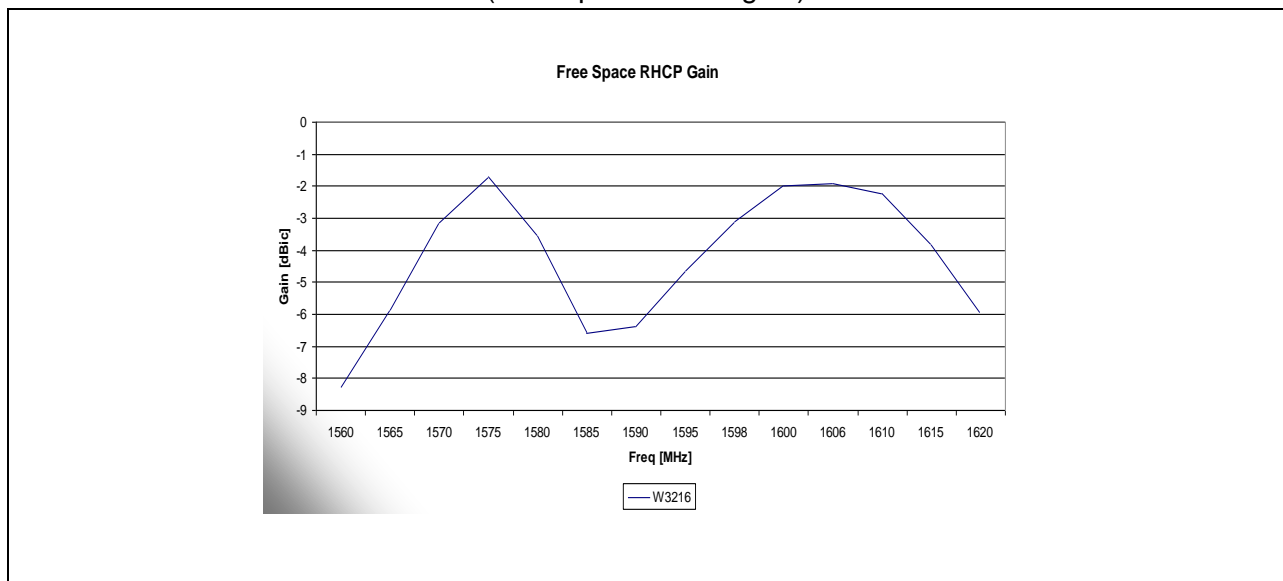
**W3216**

Series : **ANTENNA**

(Free space Efficiency)



(Free space RHCP gain)



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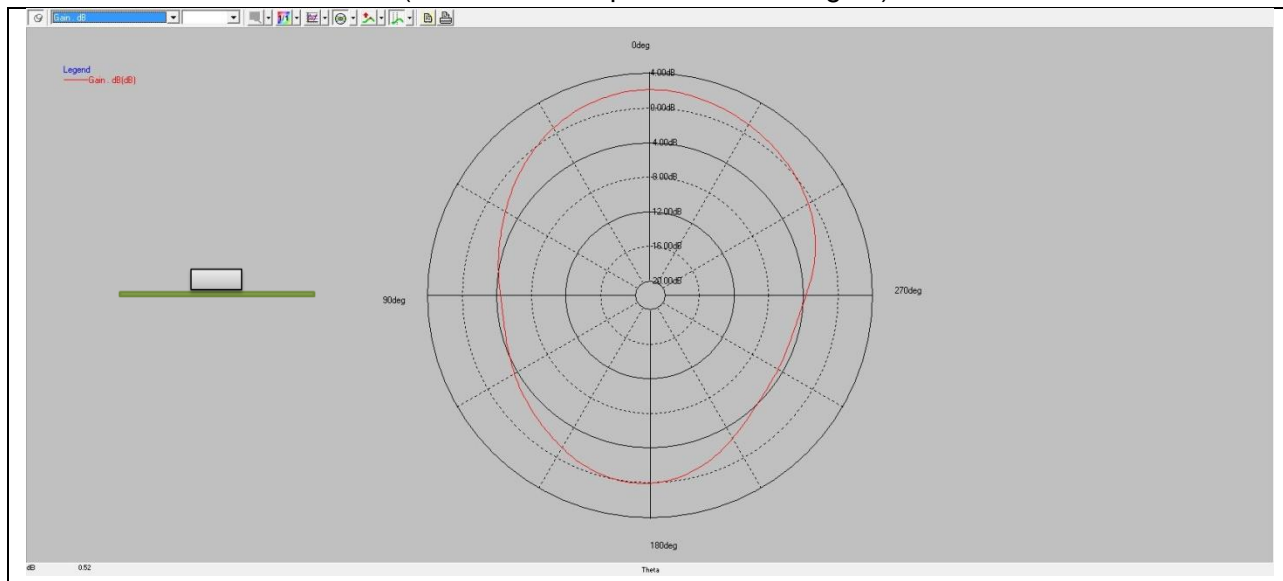
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**1.57542GHz / 1.598-1.606GHz**

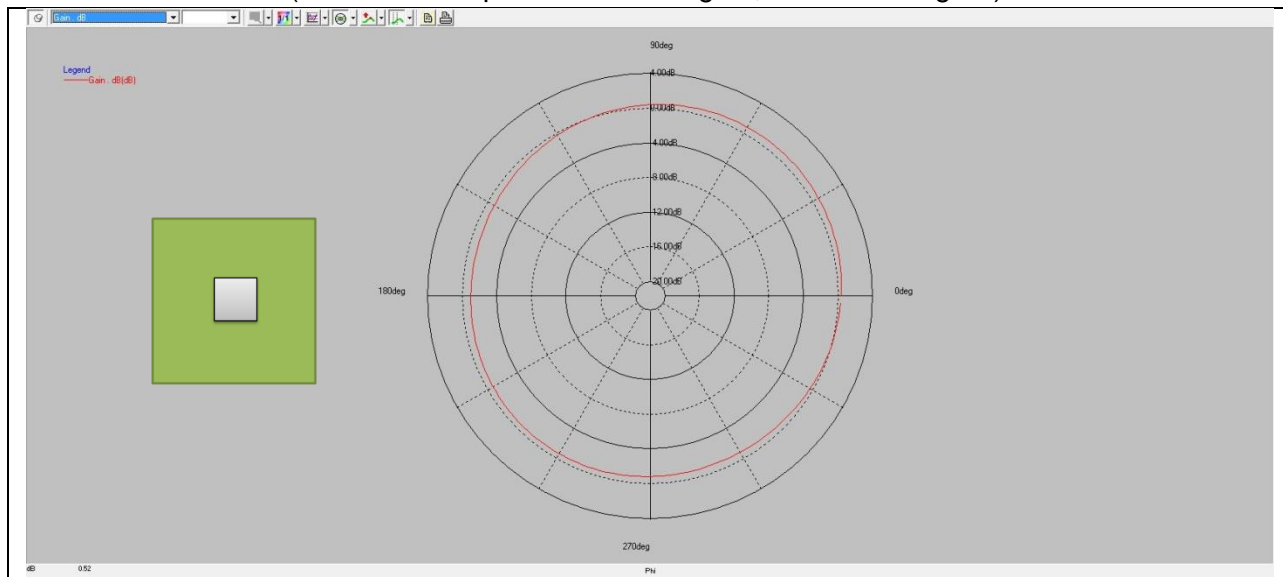
**W3216**

Series : **ANTENNA**

(GPS Elevation plane combined gain)



(GPS Azimuth plane combined gain, conical 45degree)



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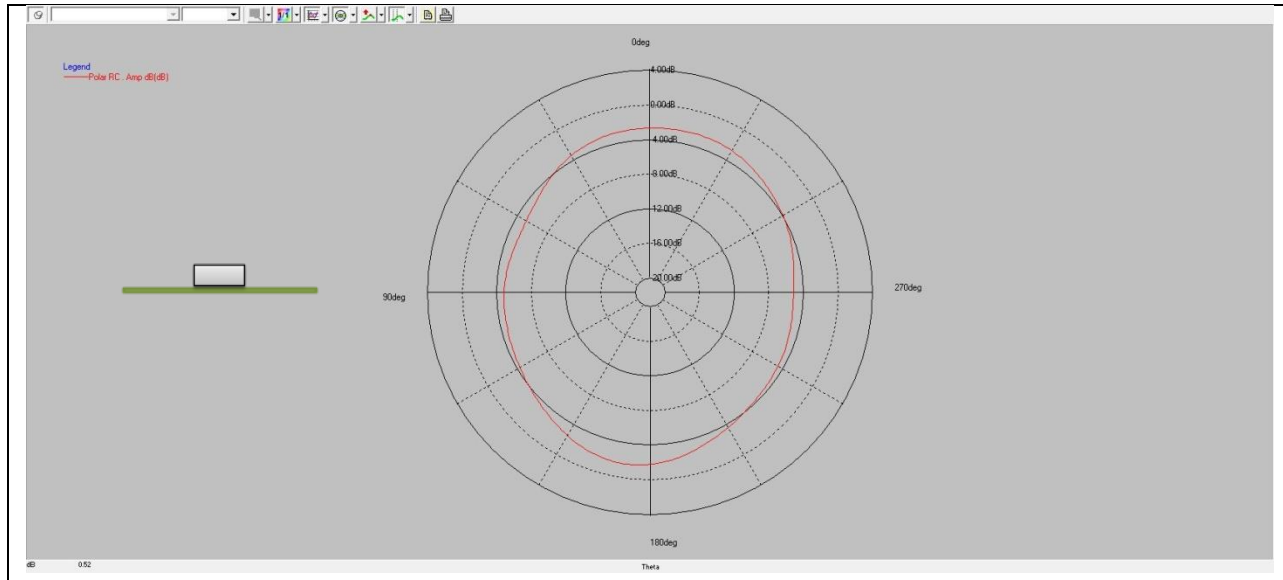
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**1.57542GHz / 1.598-1.606GHz**

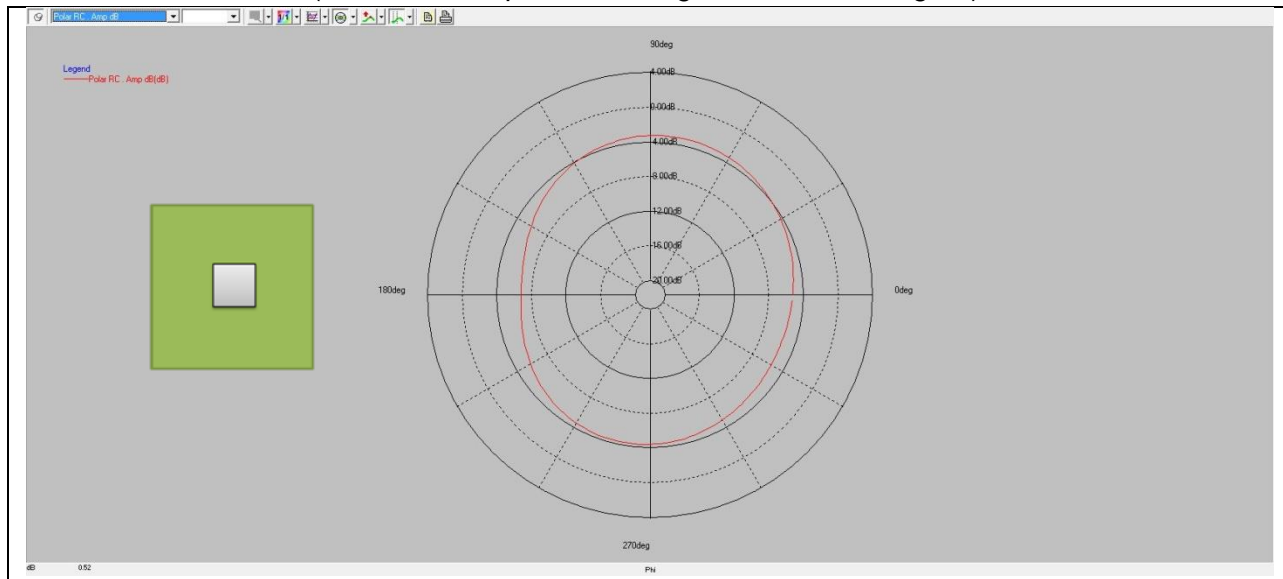
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(GPS Elevation plane RHCP gain)



(GPS Azimuth plane RHCP gain, conical 45degree)



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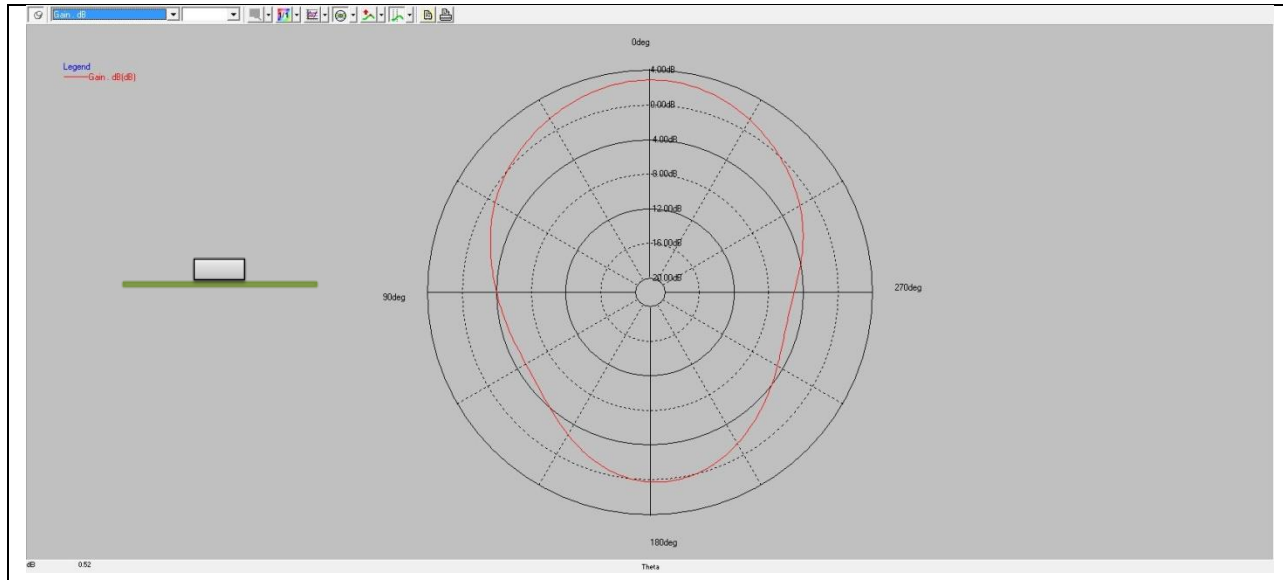
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**1.57542GHz / 1.598-1.606GHz**

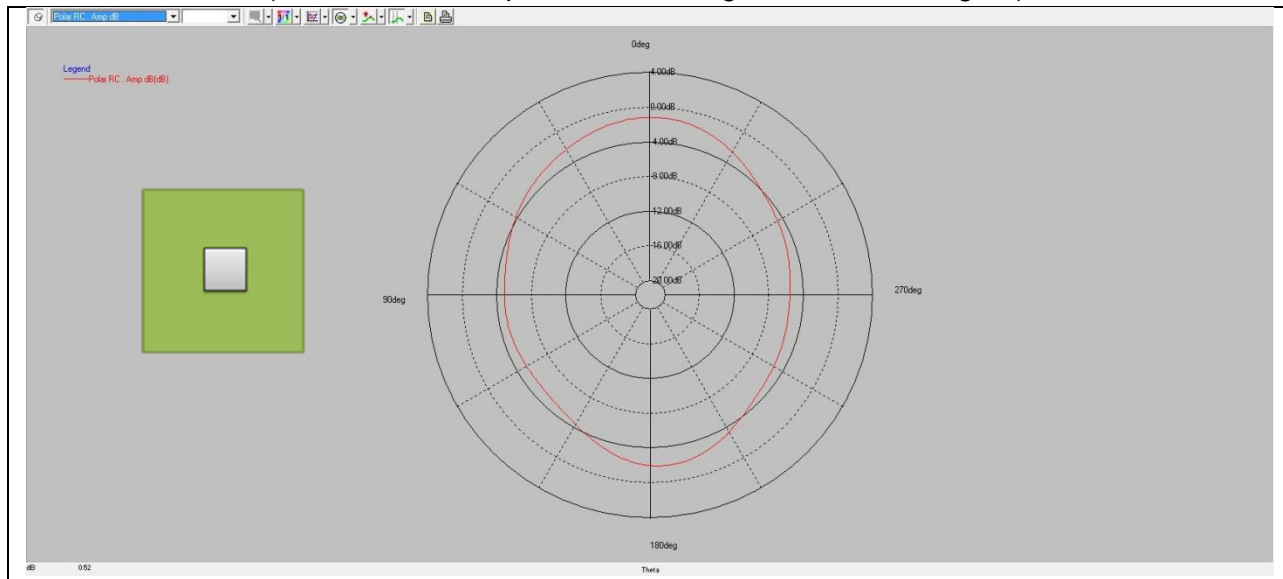
**W3216**

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(Glonass Elevation plane combined gain)



(Glonass Azimuth plane combined gain, conical 45degree)



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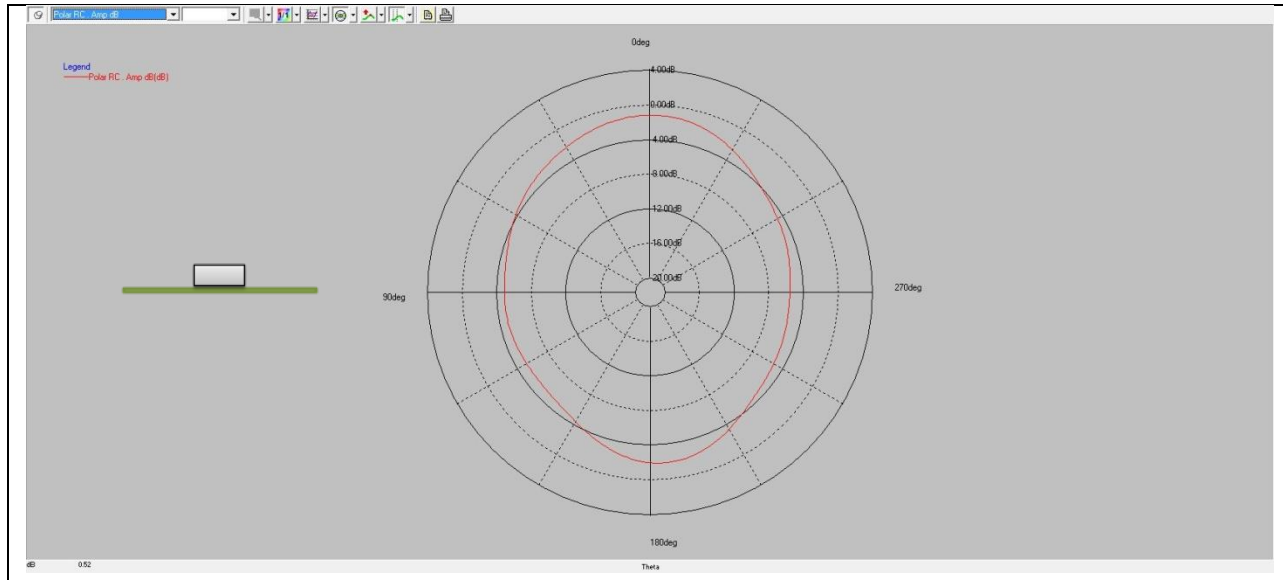
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**1.57542GHz / 1.598-1.606GHz**

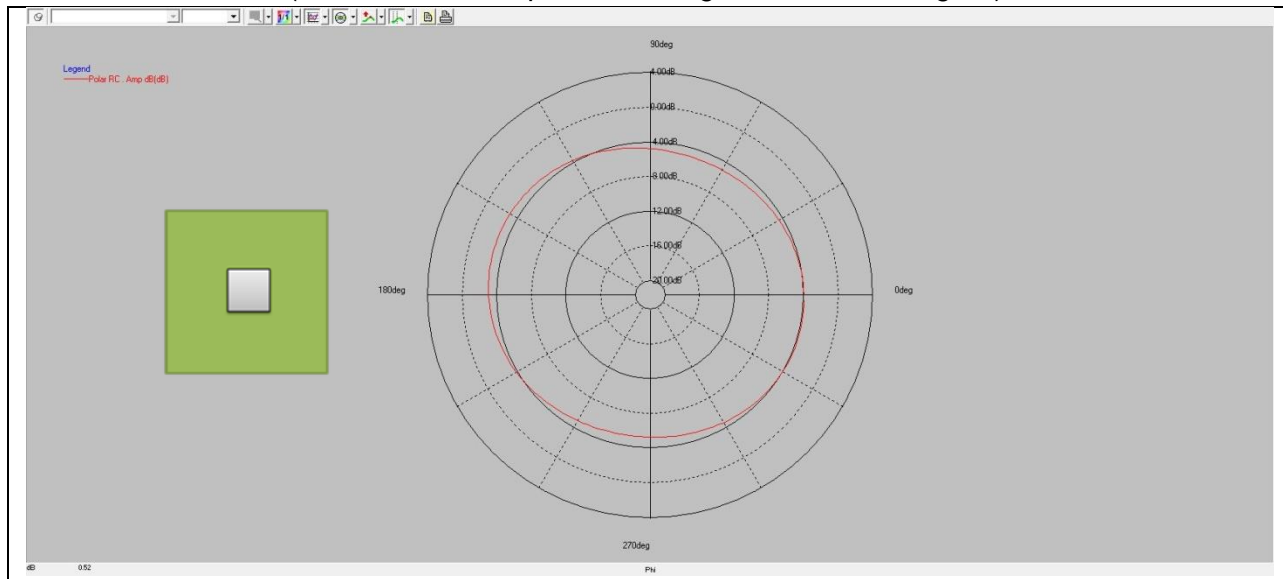
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