



### Features:

- 1575.42MHz GPS L1 Band
- Polarization RHCP
- Zenith Gain -7dBic
- Size 10 x 10 x 4 mm
- Pin mounting
- Tray packing
- RoHS Compliant

### Applications:

- GPS L1 band satellite receivers
- Tracking, Navigation, Satellite Positioning
- Fleet management
- Asset tracking

All dimensions are in mm / inches

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

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### ELECTRICAL SPECIFICATIONS

Antenna Type	Ceramic Patch
Frequency	1575.42±1.023MHz
Nominal Impedance	50 Ω
Return Loss*	<-10dB
RHCP Gain (typical)*	-7 dBic
Zenith Axial Ratio(typical)*	<3.0 dB
Polarization	RHCP

### MECHANICAL SPECIFICATIONS

Overall Length	10.2X10.2X4mm
Weight	9.3g

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40~+85 °C
Storage Temperature	-40~+85 °C
RoHS Compliant	Yes

\* Test the antenna on 30mmX30mm metal plane

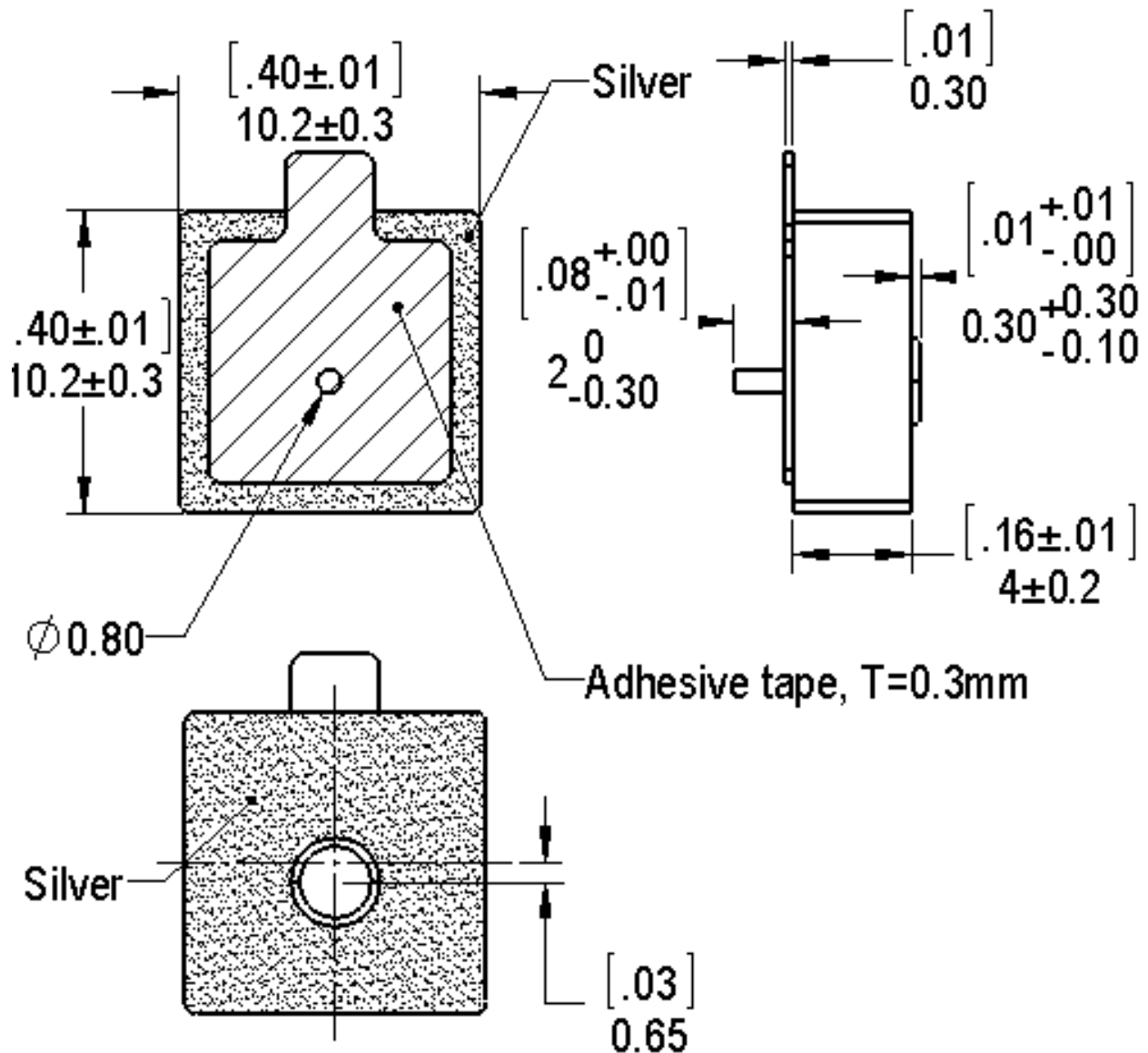
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MECHANICAL DRAWING



**Series: Ceramic Patch**

**Description:** 10x10x4mm GPS 1575.42MHz  
Pin Mount RCHP Antenna

**PART NUMBER: W3212**

## TEST SETUP

Test on 30X30mm metal ground in free space

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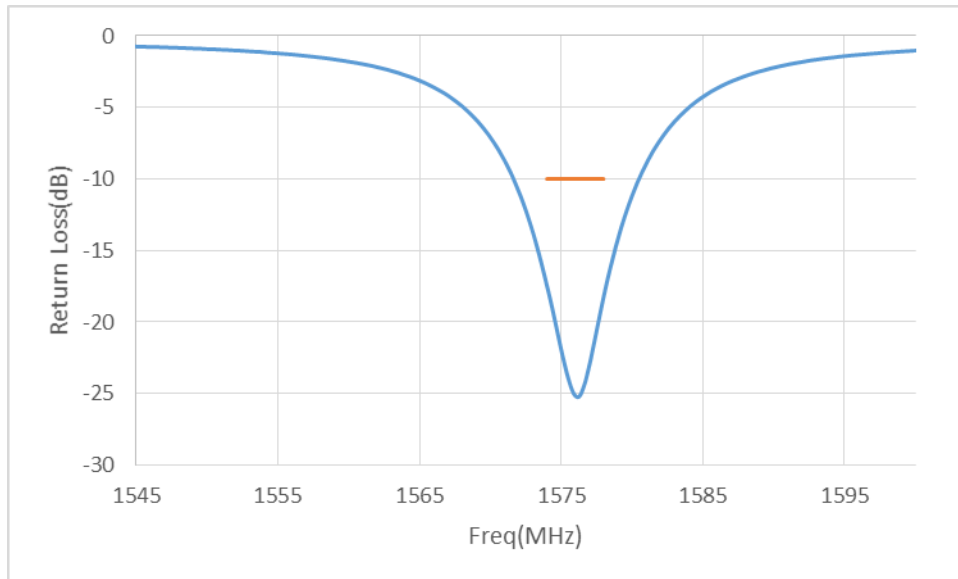
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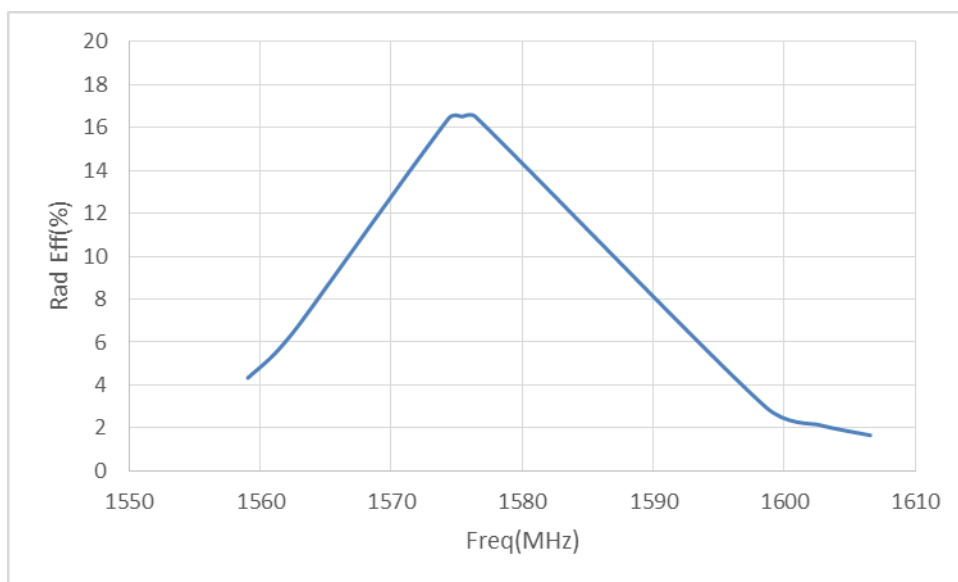
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## CHARTS

### Return Loss



### Radiation Efficiency



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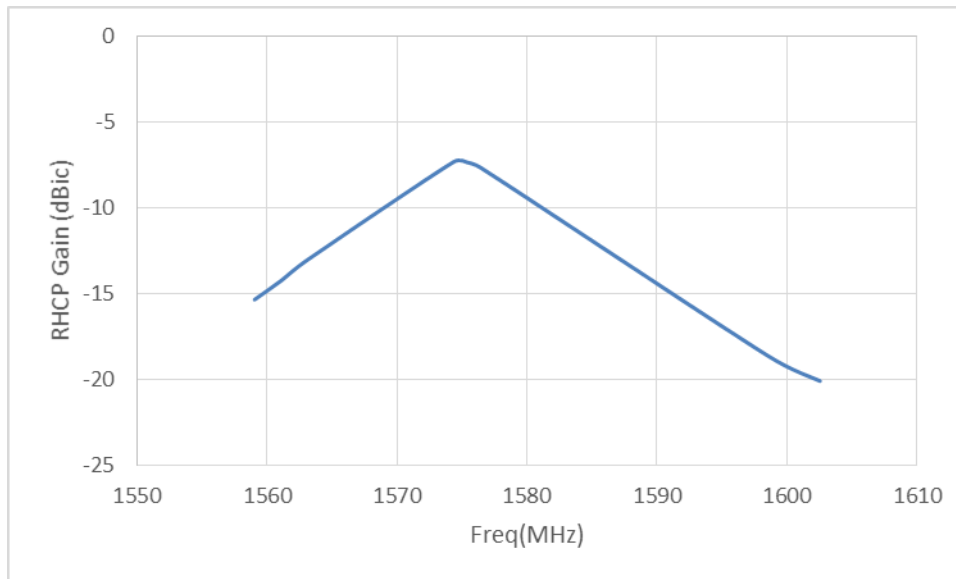
Series: Ceramic Patch

Description: 10x10x4mm GPS 1575.42MHz  
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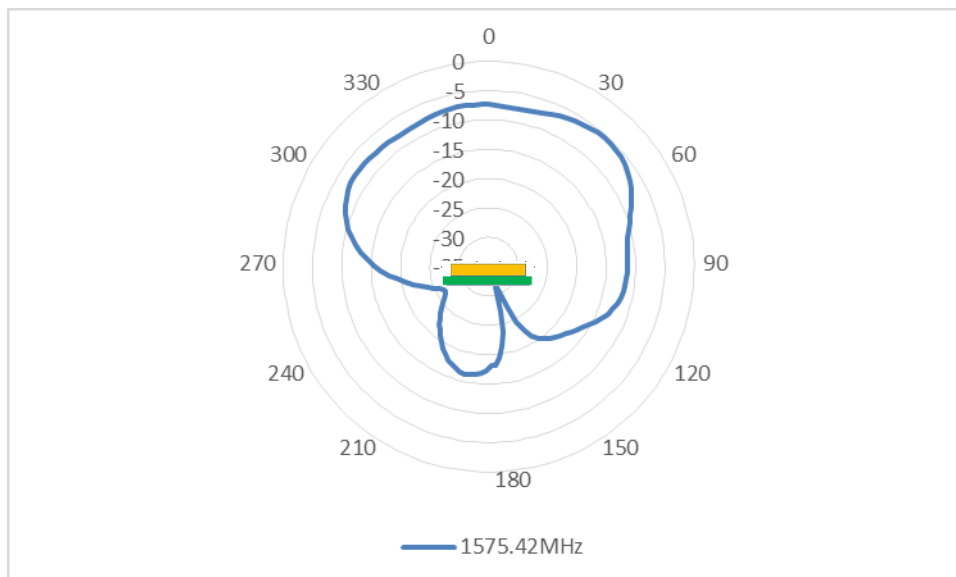
PART NUMBER: W3212

## CHARTS

### Zenith RHCP Gain



### GPS Radiation pattern on 30mmX30mm metal plane



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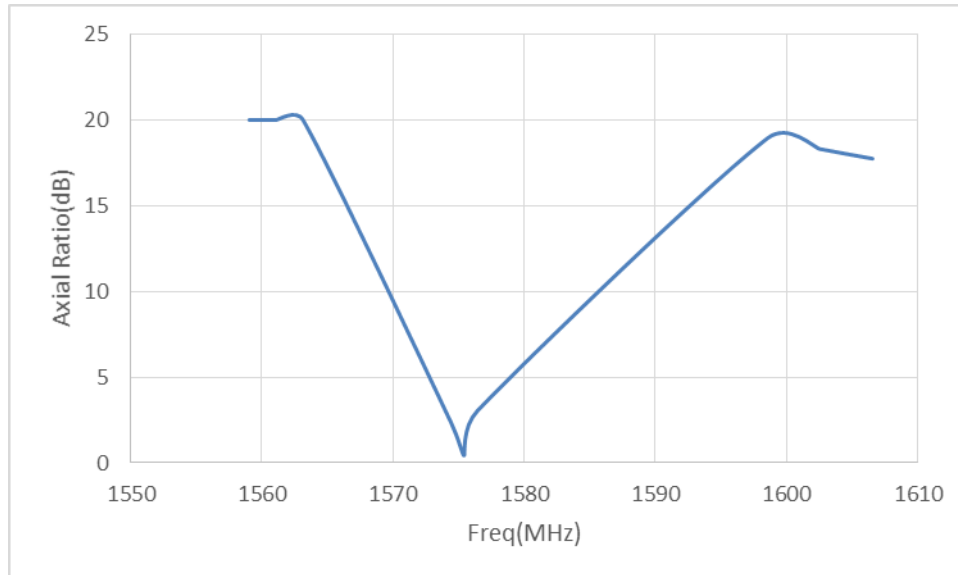
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## CHARTS

### Zenith Axial Ratio



**Series: Ceramic Patch**

**Description:** 10x10x4mm GPS 1575.42MHz  
Pin Mount RCHP Antenna

**PART NUMBER: W3212**

## PACKAGING

Tray packing  
100PCS/Tray  
2200PCS/big carton box  
Big box dimensions (MM): 285mmX375mmX200mm