



### 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

Issue: 1734

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

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For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel: 1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg, 4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



### ELECTRICAL SPECIFICATIONS

Antenna Type	Ceramic Patch
Frequency	1575.42±1.023MHz
Nominal Impedance	50 $\Omega$
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

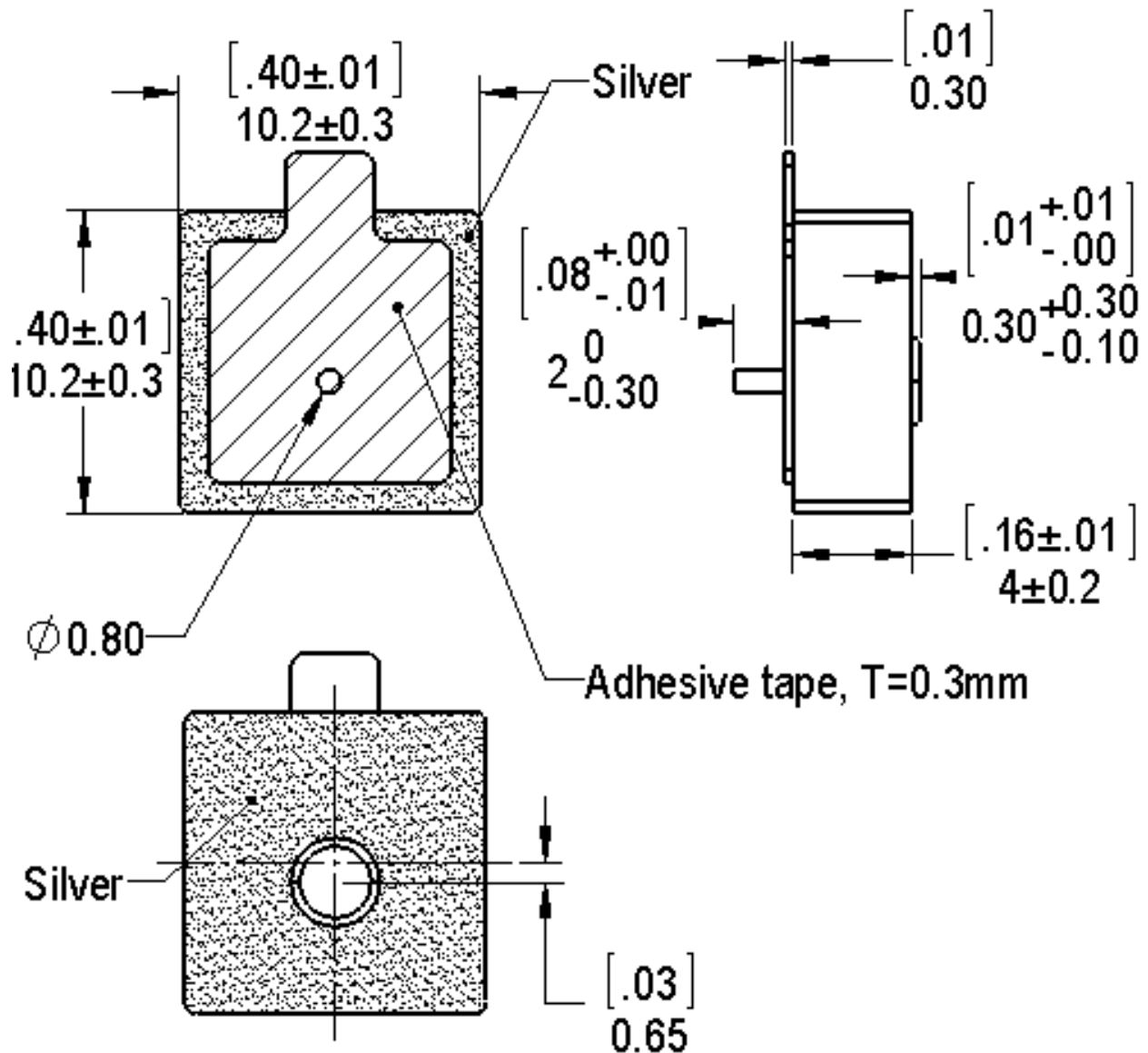
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MECHANICAL DRAWING



**Series: Ceramic Patch**

**TECHNICAL DATA SHEET**

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

**PART NUMBER: W3212**

**TEST SETUP**

Test on 30X30mm metal ground in free space

Issue: 1734

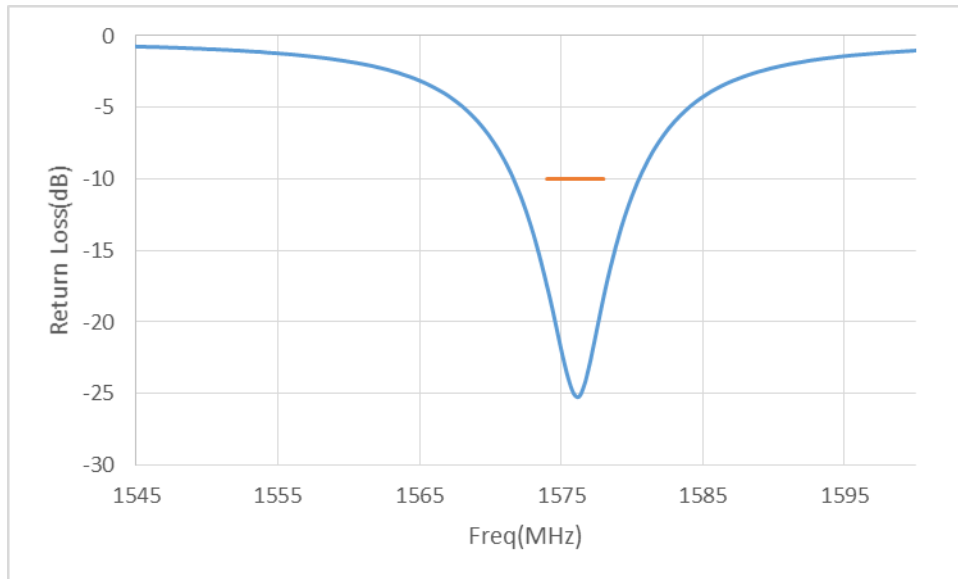
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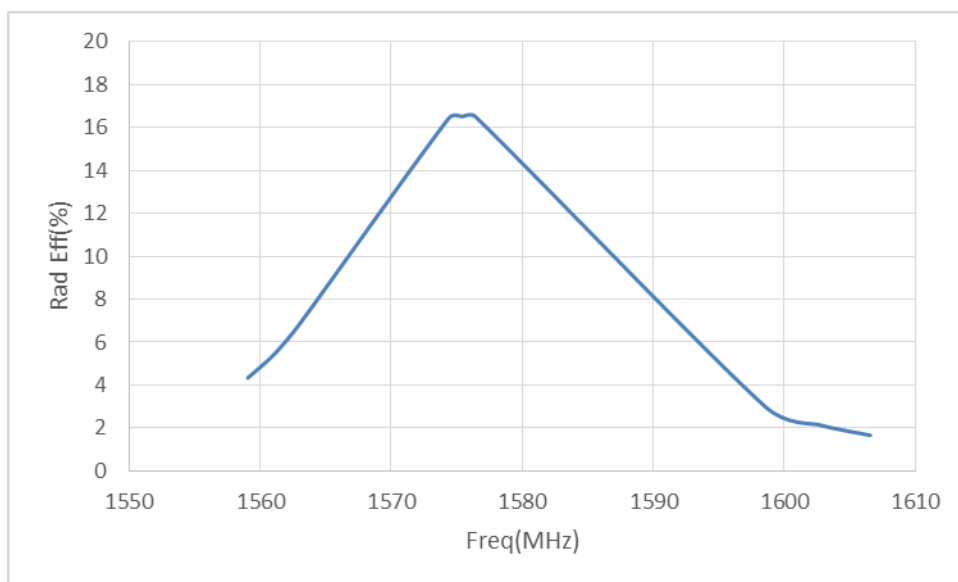
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## CHARTS

### Return Loss



### Radiation Efficiency



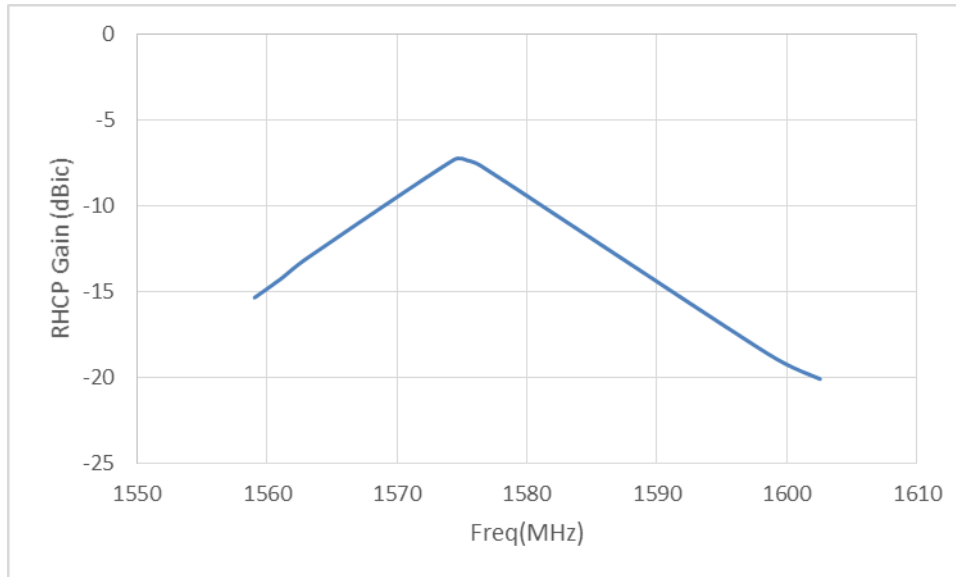
Series: Ceramic Patch

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

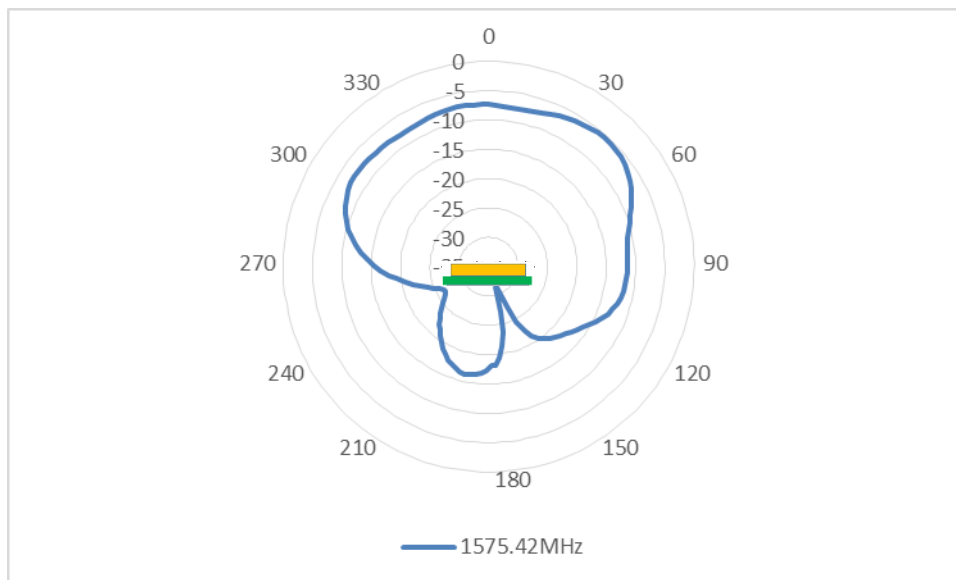
**PART NUMBER:** W3212

## CHARTS

### Zenith RHCP Gain



### GPS Radiation pattern on 30mmX30mm metal plane



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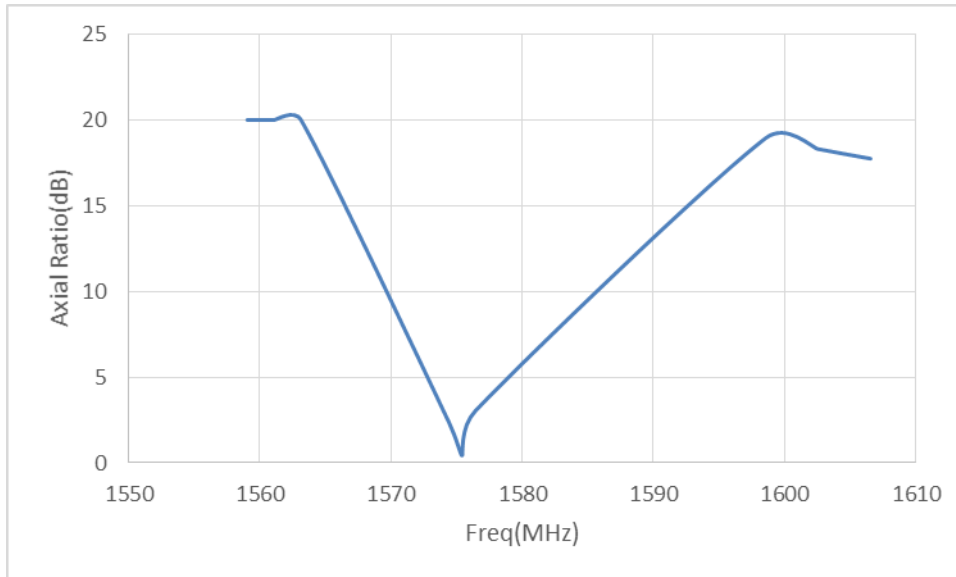
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## CHARTS

### Zenith Axial Ratio



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## PACKAGING

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

# Mouser Electronics

Authorized Distributor

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Pulse:

W3212