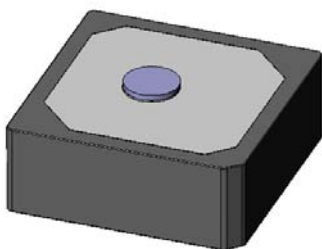


# GPS L1 Band and Glonass Ceramic Patch Antenna

Pulse Part Number: **W3216**



## Features

- Size W x L x H: 13 x 13 x 5 mm
- Lead free materials
- RoHS Compliant

## Applications

- GPS L1 band and Glonass
- 1.575 GHz
- 1.598-1.606 GHz

## GPS L1 Band and Glonass Patch antenna

Typical performance (measured on 50x50mm ground plane)

Item	Typical performance	Unit	Note
Operation frequency	1575.42 1598 - 1606	[MHz]	
Polarization	RHCP	-	
RHCP Gain @ Zenith 1575.42 MHz	-2	[dBic]	
RHCP Gain @ Zenith 1598 - 1606 MHz (peak)	-2	[dBic]	
Efficiency 1575.42 MHz	60	[%]	
Efficiency 1598 - 1606 MHz (peak)	60	[%]	
Impedance	50	[Ω]	

### Pulse Finland Oy

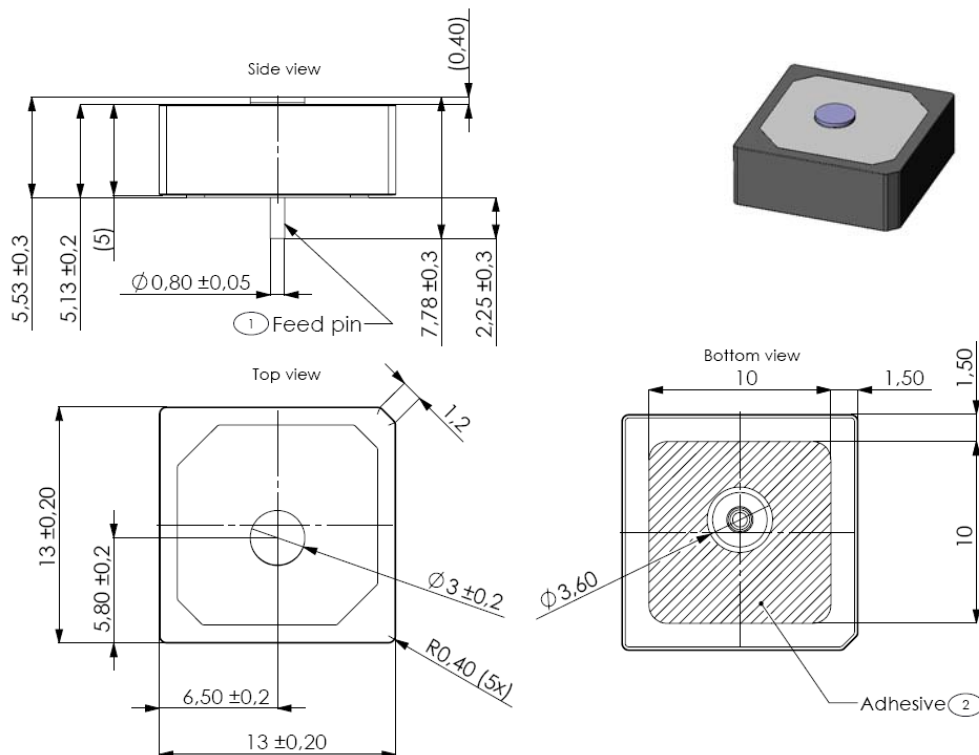
Takatie 6  
90440 Kempele, Finland  
Tel: +358 207 935 500  
Fax: +358 207 935 501

Domicile: Kempele  
Business ID: 1933992-8  
Firstnamefirstinitial+lastname@pulseelectronics.com  
[www.pulseelectronics.com/antennas](http://www.pulseelectronics.com/antennas)

# GPS/Glonass Ceramic Patch Antenna

## Mechanical characteristics

### Antenna Dimensions



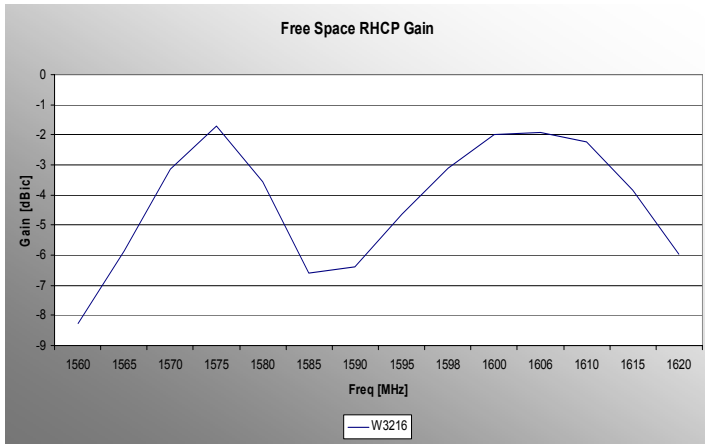
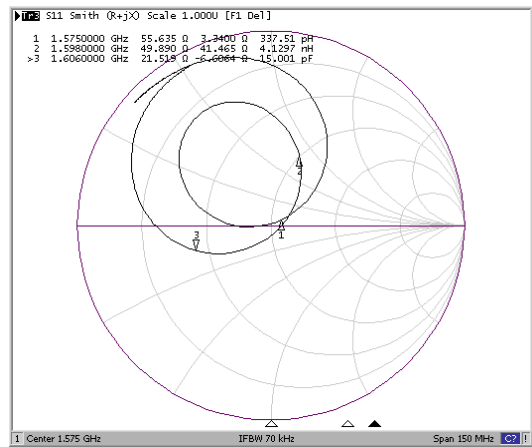
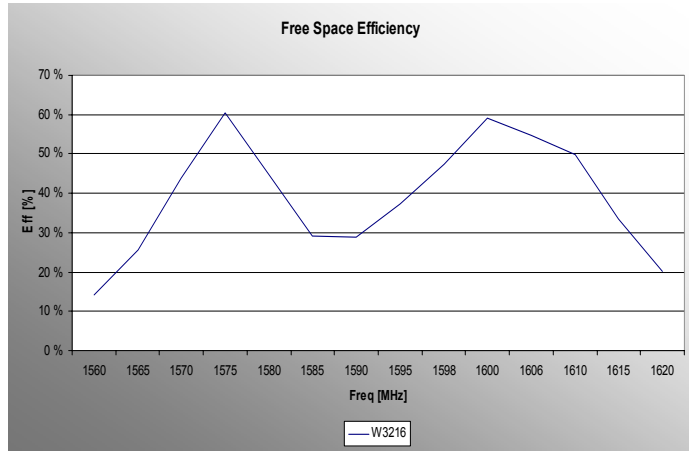
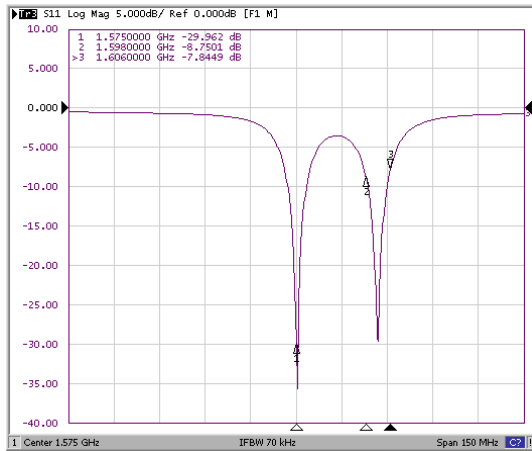
No.	Item	Description
1	Feed pin	Silver plated brass
2	Adhesive	0.13 mm thick double sided tape
Notes:		
Feed pin manual soldering conditions:		
<ul style="list-style-type: none"> <li>- 300°C max soldering iron temperature, 5 seconds max</li> <li>- Typical lead free solders are applicable</li> </ul>		
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		

# GPS/Glonass Ceramic Patch Antenna

## Typical Electrical Characteristics (T=25 °C)

Measured on 50x50mm Ground Plane

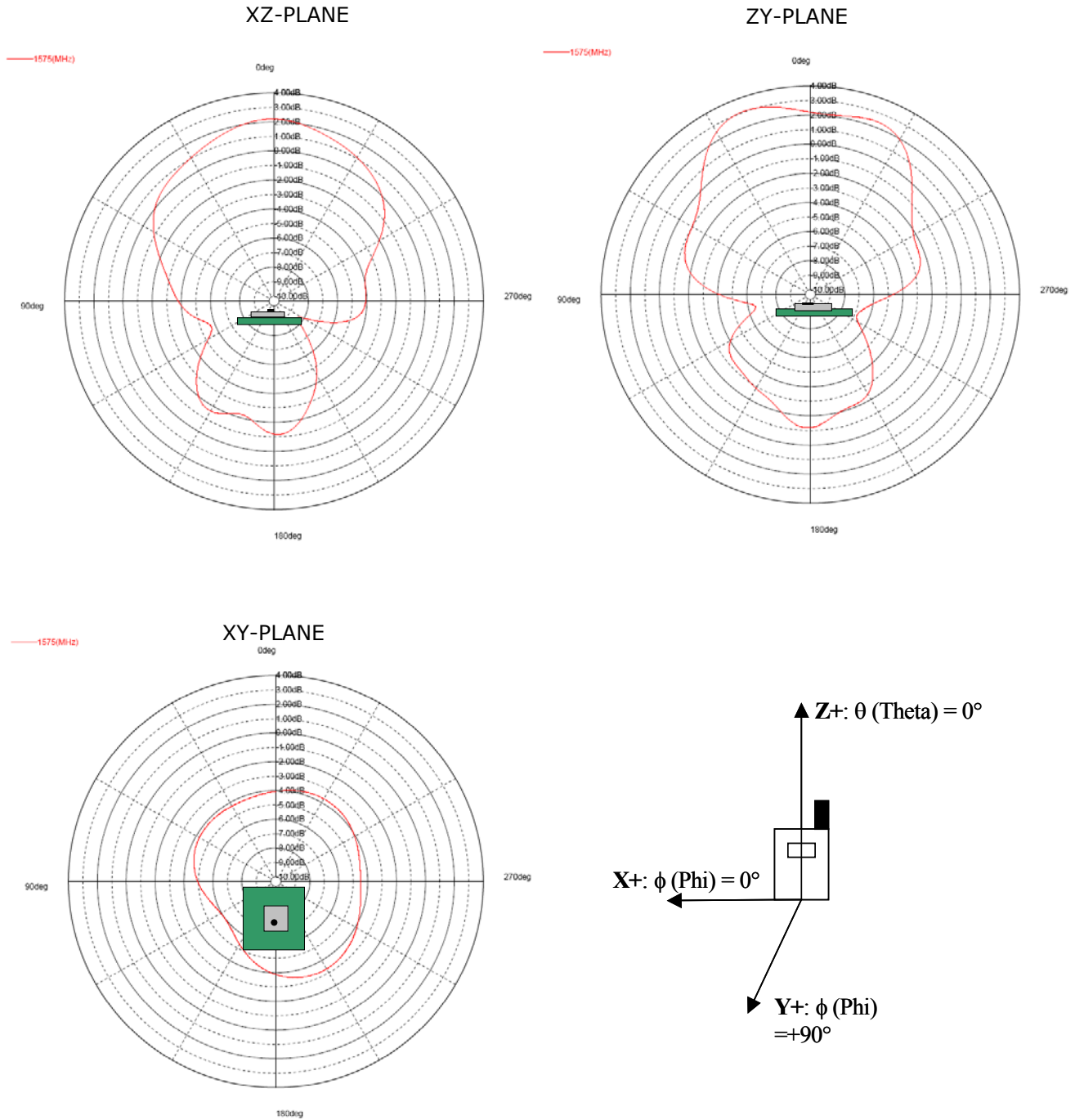
*Typical Return Loss, impedance chart, RHCP gain @ Zenith and Free Space Efficiency Measurement results included 1,5 pF shunt capacitor*



# GPS Band

## Typical Free space Radiation Patterns

Measured on 50x50mm Ground Plane



# Glonass Band

## Typical Free space Radiation Patterns

Measured on 50x50mm Ground Plane

