

**Description:** Ceramic Patch Antenna, 40x40x6.6mm  
PIN Mount, GNSS/IRIDIUM

**PART NUMBER: W3227**



### Features:

- Center Frequency 1621 MHz
- Band Width 177MHz
- Polarization RHCP
- Gain 4dBic
- Size 1.575 x 1.575 x 0.26"

### Applications:

- Satellite signal reception
- Iridium
- GNSS (Beidou, GPS, Galileo, Glonass)
- Timing Antennas
- Tracking
- Asset Management

All dimensions are in mm / inches

Issue: 1721

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 antenna      |
| Center Frequency         | 1621MHz $\pm$ 10MHz        |
| Frequency band           | 1532-1709MHz               |
| Nominal Impedance        | 50 $\Omega$                |
| VSWR in whole band       | <3.5:1                     |
| VSWR at center frequency | <1.7:1                     |
| Peak RHCP Gain at Zenith | >4dBic at center frequency |
| Half Power Beam Width    | 110° Solid angle           |
| Efficiency               | 60% typical                |
| Polarization             | RHCP                       |

\* All test on 63X63mm ground plane

### MECHANICAL SPECIFICATIONS

|                          |                       |
|--------------------------|-----------------------|
| Overall Length           | 1.575 x 1.575 x 0.26" |
| Weight                   | 35.8 g                |
| Antenna Color / Material | White                 |

### ENVIRONMENTAL SPECIFICATIONS

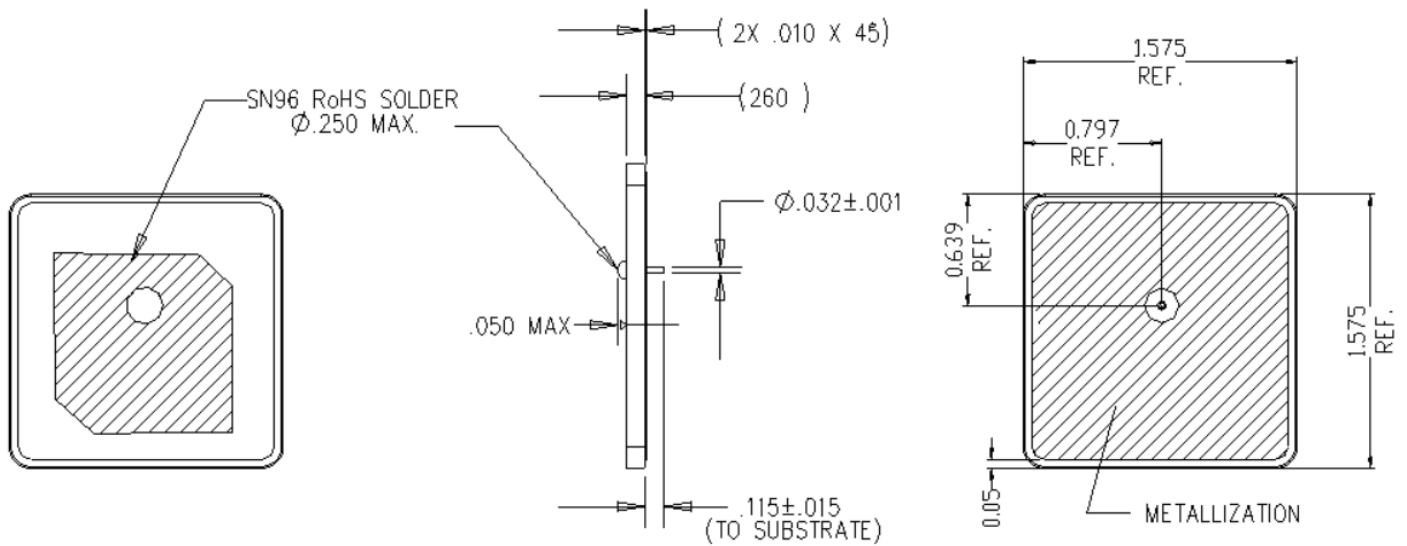
|                       |                 |
|-----------------------|-----------------|
| Operating Temperature | -40°C to +105°C |
| Storage Temperature   | -40°C to +105°C |

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## MECHANICAL DRAWING



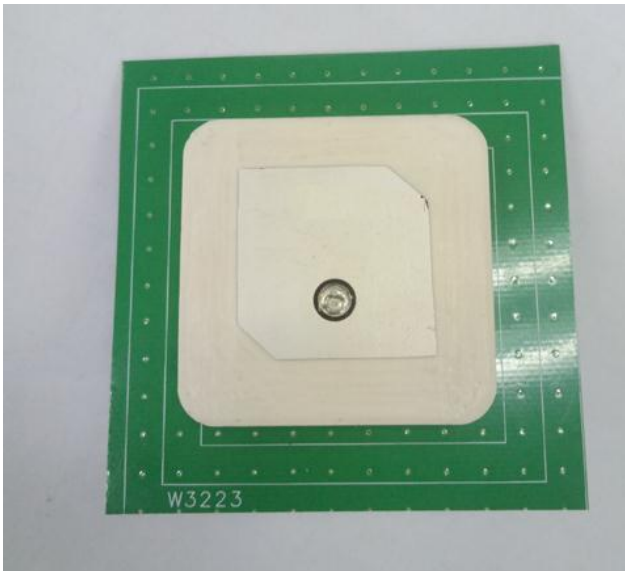
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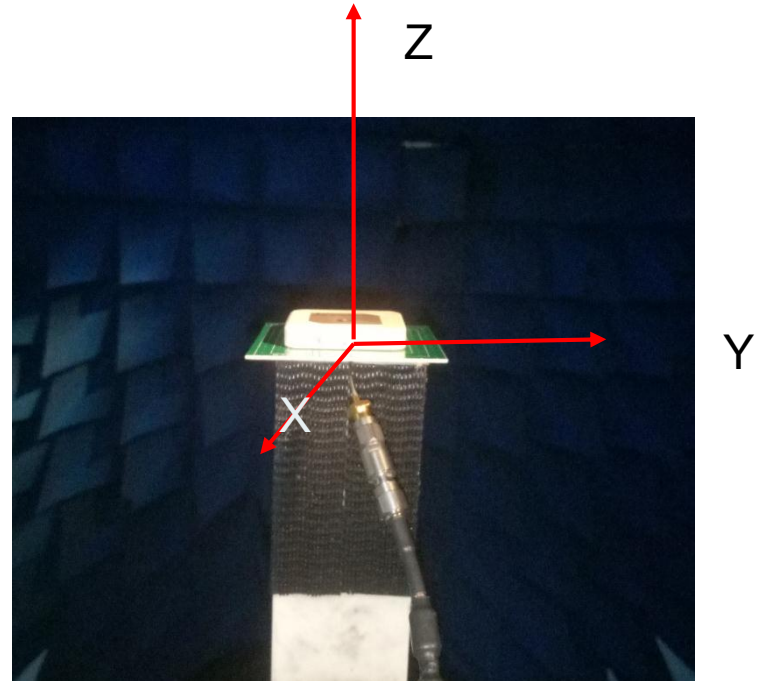
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TEST SETUP



For VSWR  
On 63X63 mm ground plane



In Chamber

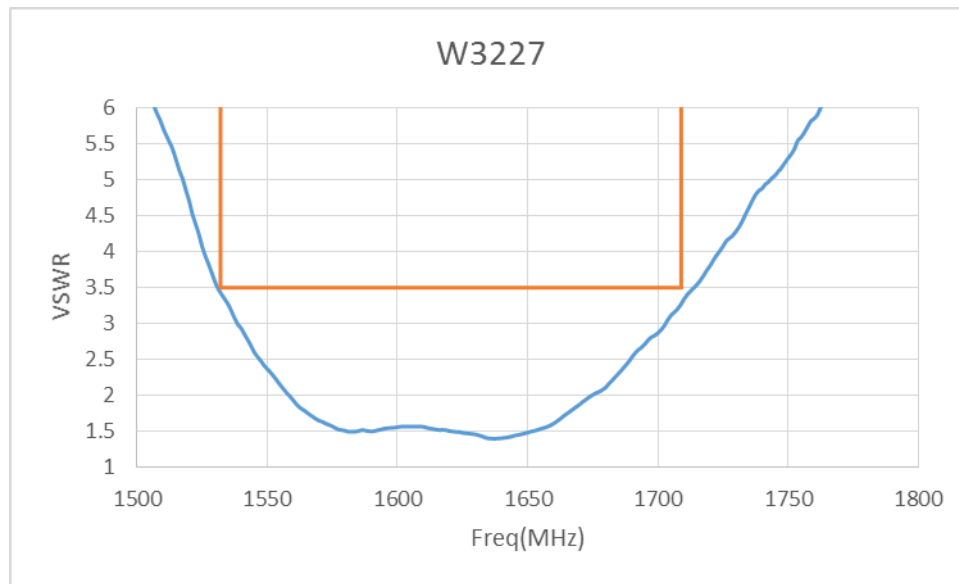
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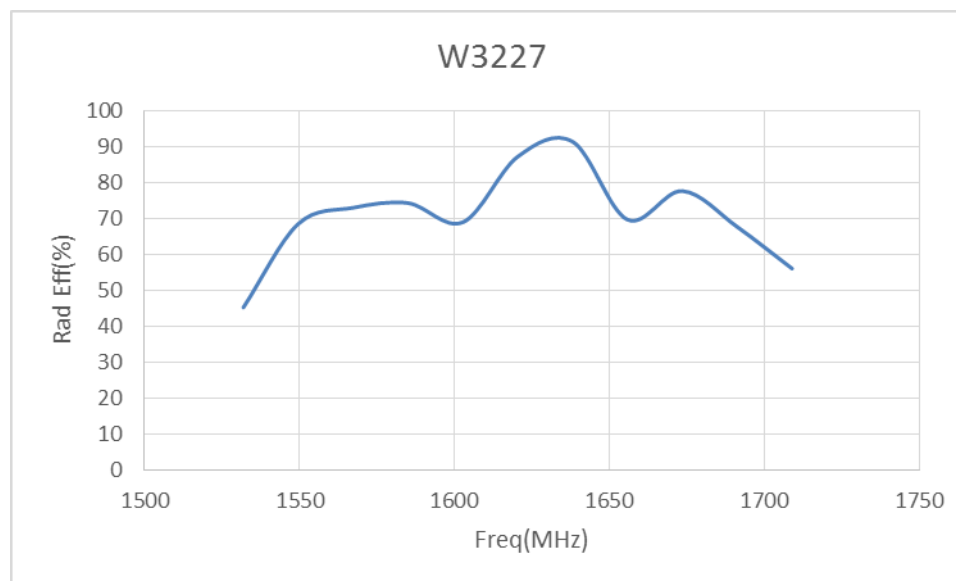
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## CHARTS

### VSWR



### Radiation Efficiency



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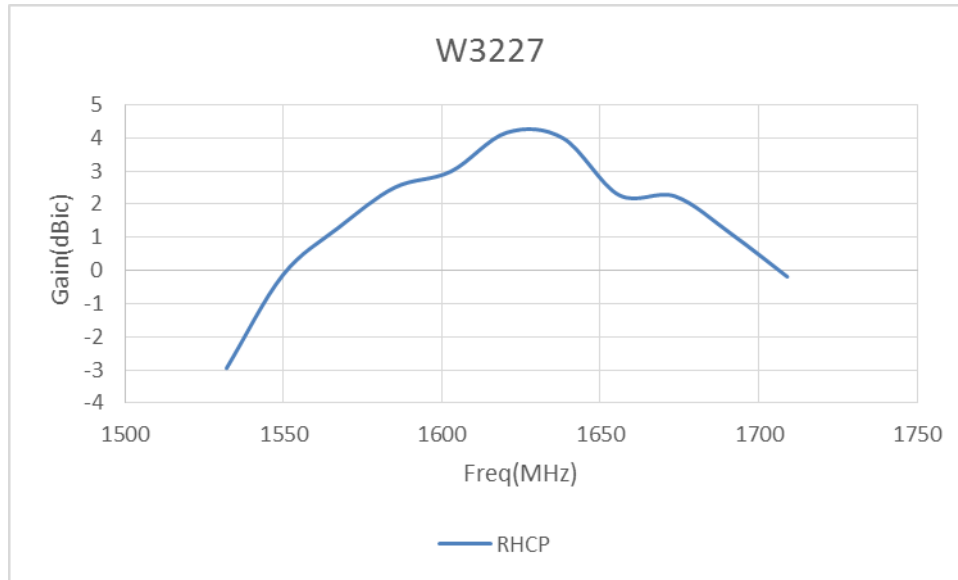
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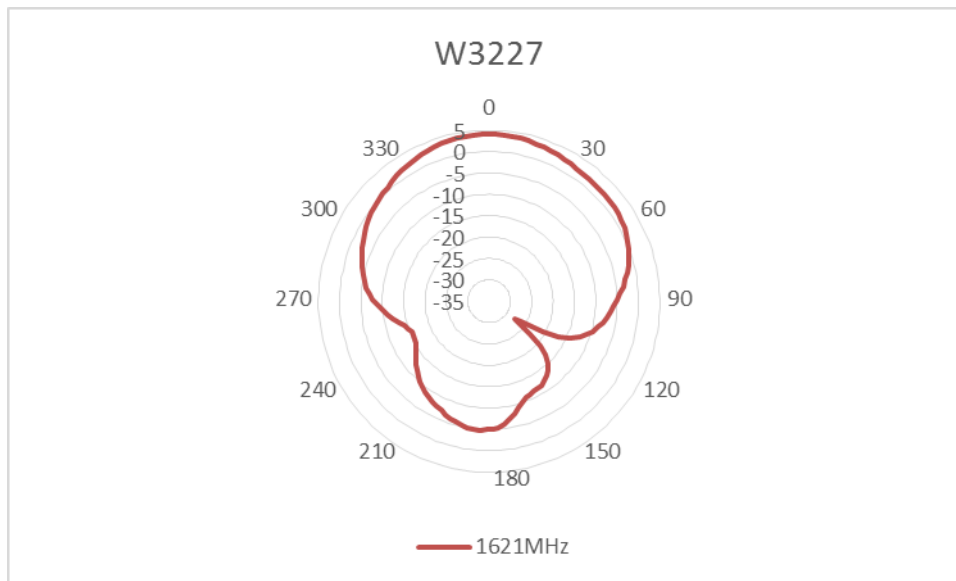
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## CHARTS

### RHCP Gain at Zenith



### Radiation Pattern



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## PACKAGING

Pack 42 Antennae in Tray, 29 Tray in one box

