

Series: Patch Antenna

TECHNICAL DATA SHEET

**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"
- Adhesive mount

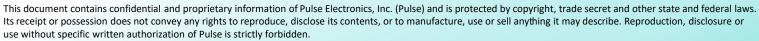
## **Applications:**

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

All dimensions are in mm / inches

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For more information:

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#### **ELECTRICAL SPECIFICATIONS\***

Antenna Type Center Frequency Frequency band Nominal Impedance VSWR in whole band VSWR at center frequency Peak RHCP Gain at Zenith Half Power Beam Width Efficiency Polarization \* All test on 63X63mm ground plane

## Ceramic Patch antenna 1621MHz ±10MHz 1532-1709MHz 50 Ω <3.5:1 <1.7:1 >4dBic at center frequency 110° Solid angle 60% typical RHCP

#### **MECHANICAL SPECIFICATIONS**

Overall Length Weight Antenna Color / Material Adhesive

## 1.575 x 1.575 x 0.26" 35.8 g White NITTO:NO.5015

#### **ENVIRONMENTAL SPECIFICATIONS**

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

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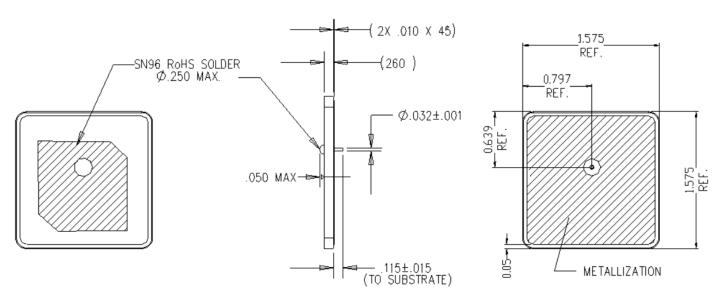
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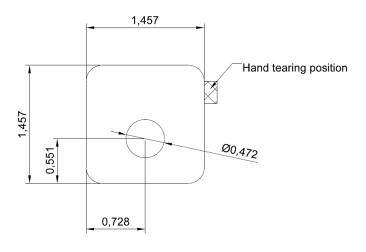
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### **MECHANICAL DRAWING**

# Antenna:



# Adhesive:



Note: 1.NITTO:NO.5015 2.Thickness: 0.12mm/0.0047inch

Unit: inch

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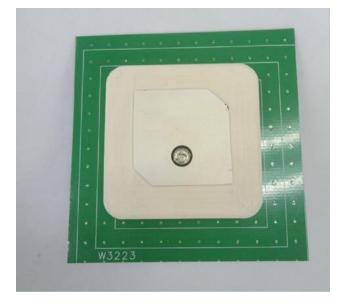
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#### **TEST SETUP**



# For VSWR On 63X63 mm ground plane

 Z

In Chamber

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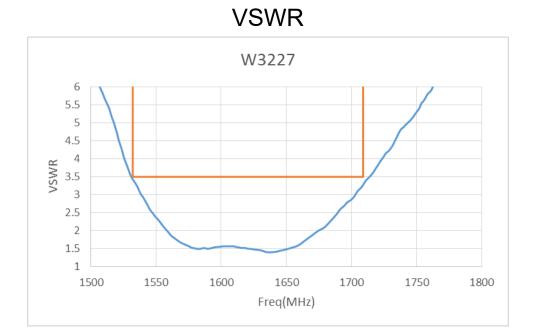


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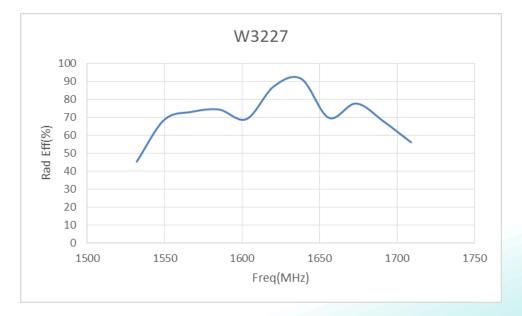
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#### CHARTS



# **Radiation Efficiency**



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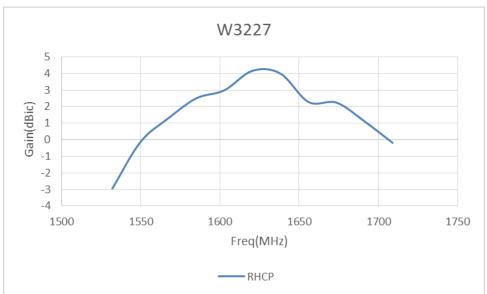


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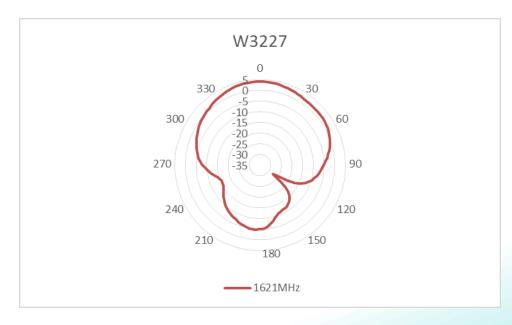
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### CHARTS



# RHCP Gain at Zenith

## **Radiation Pattern**



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#### PACKAGING

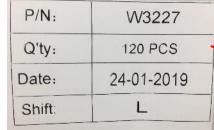
30pcs antennas per tray

4 trays of antennas (total 120pcs) packed in a vacuum bag.

- A label adhered on the vacuum bag with the P/N, Q'ty, Date and Shift information.
- 4 vacuum bags of antennas (total 480pcs) pack in a carton.
- A label adhered on the carton with the P/N, Q'ty, WP, Date and Shift information













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