YAGEO GROUP

TECHNICAL DATA SHEET

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

Series: Patch Antenna

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, Inmarsat
- GNSS (Beidou, GPS, Galileo, Glonass)
- Timing Antennas
- Tracking
- Asset Management

All dimensions are in mm / inches

Issue: 2542

RoHS COMPLIANT

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ELECTRICAL SPECIFICATIONS*

Antenna Type	Ceramic Patch antenna
Center Frequency	1621MHz ±10MHz
Frequency band	1532-1709MHz
Nominal Impedance	50 Ω
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
Adhesive	NITTO:NO.5015

ENVIRONMENTAL SPECIFICATIONS

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

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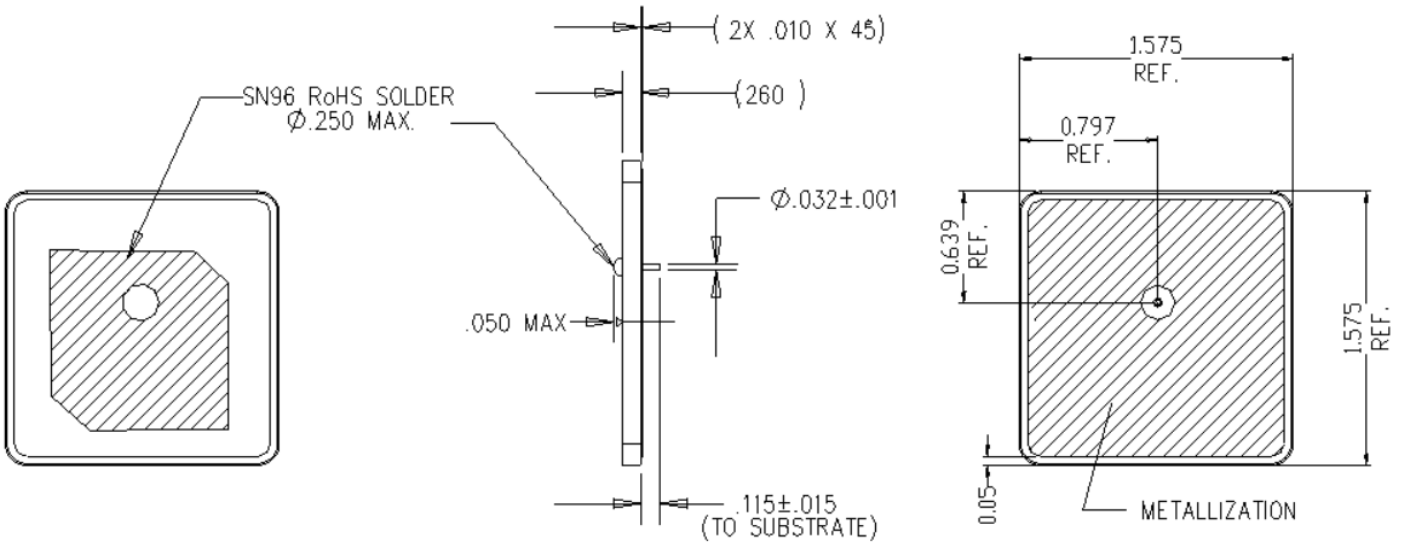
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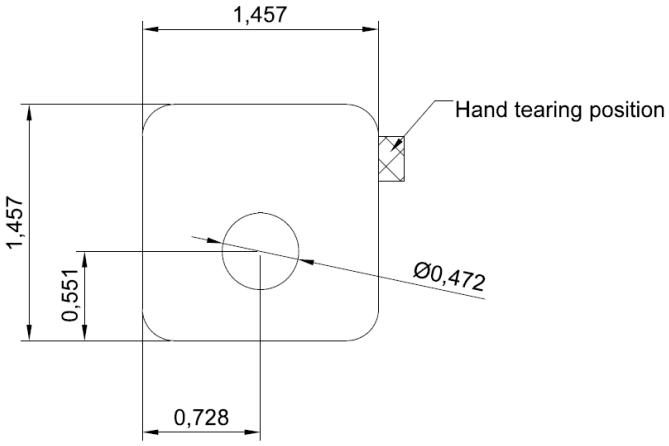
PART NUMBER: W3227

MECHANICAL DRAWING

Antenna:



Adhesive:



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

Unit: inch

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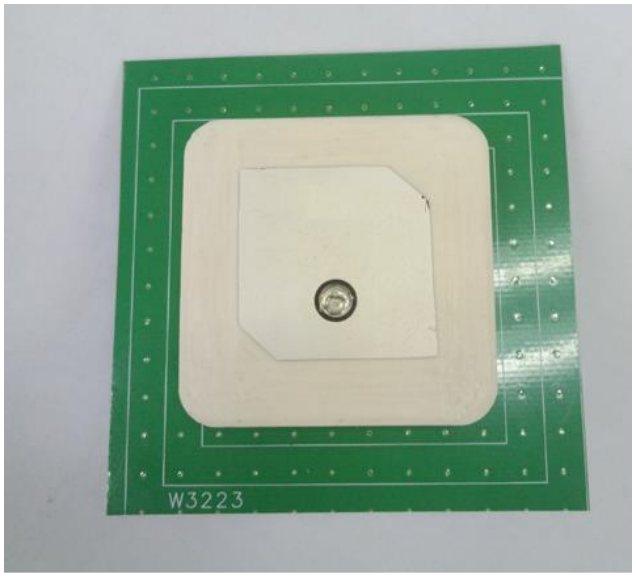
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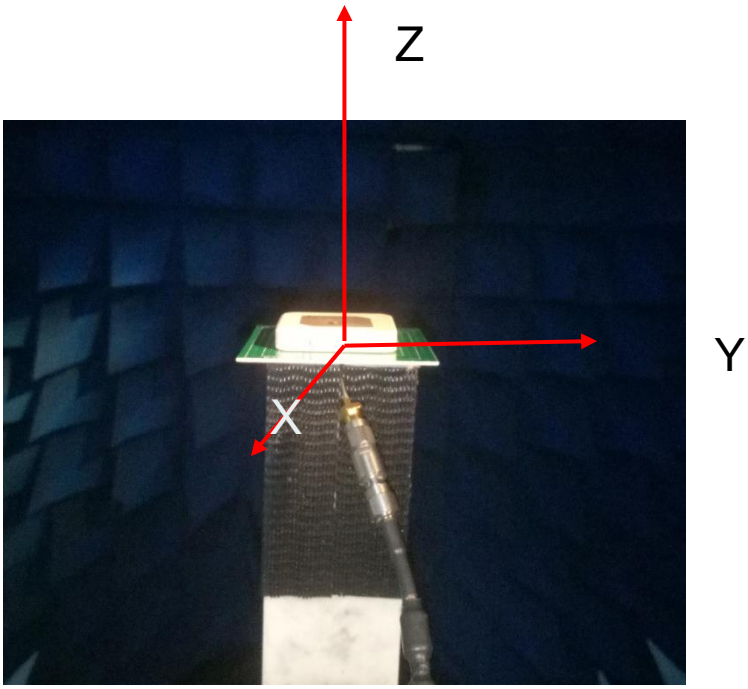
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TEST SETUP



For VSWR
On 63X63 mm ground plane



In Chamber

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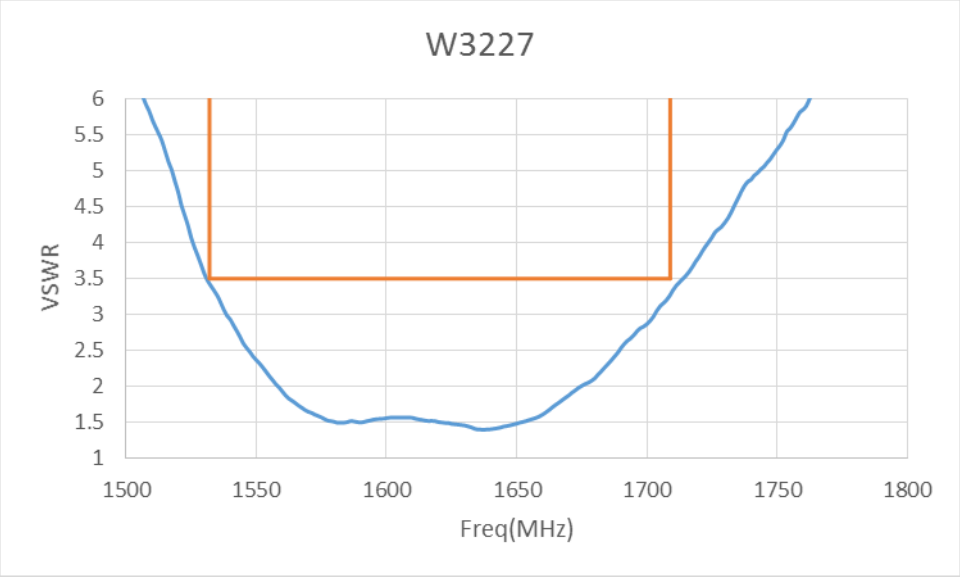
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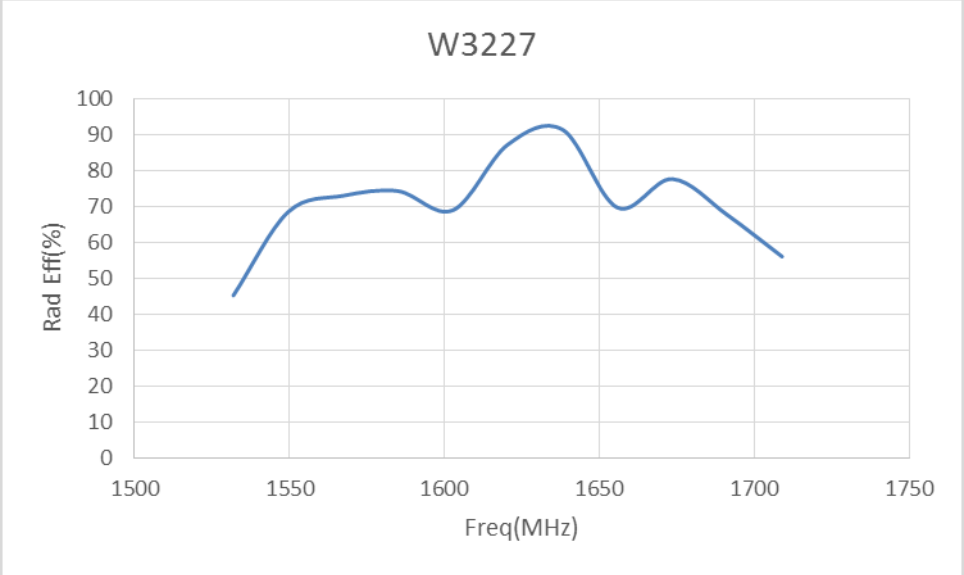
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CHARTS

VSWR



Radiation Efficiency



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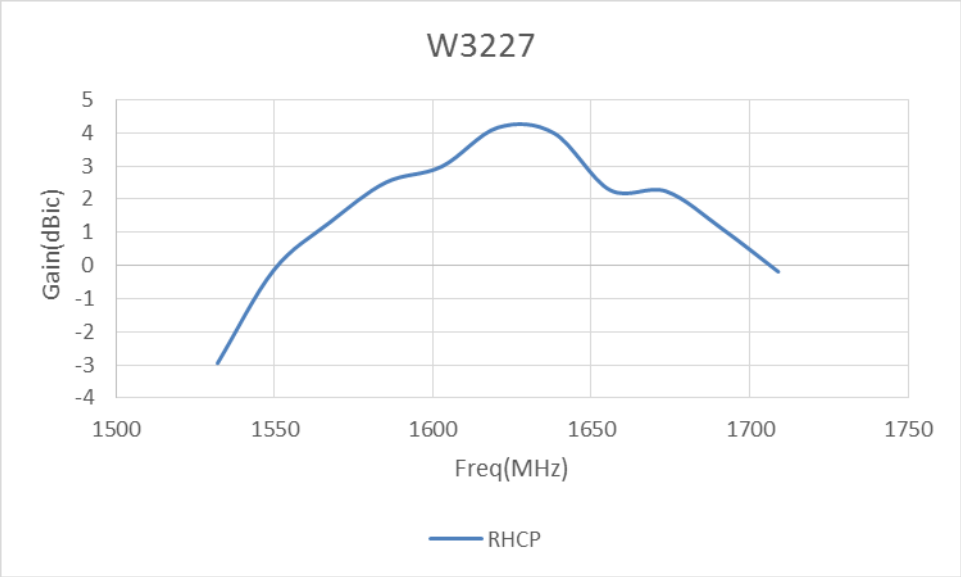
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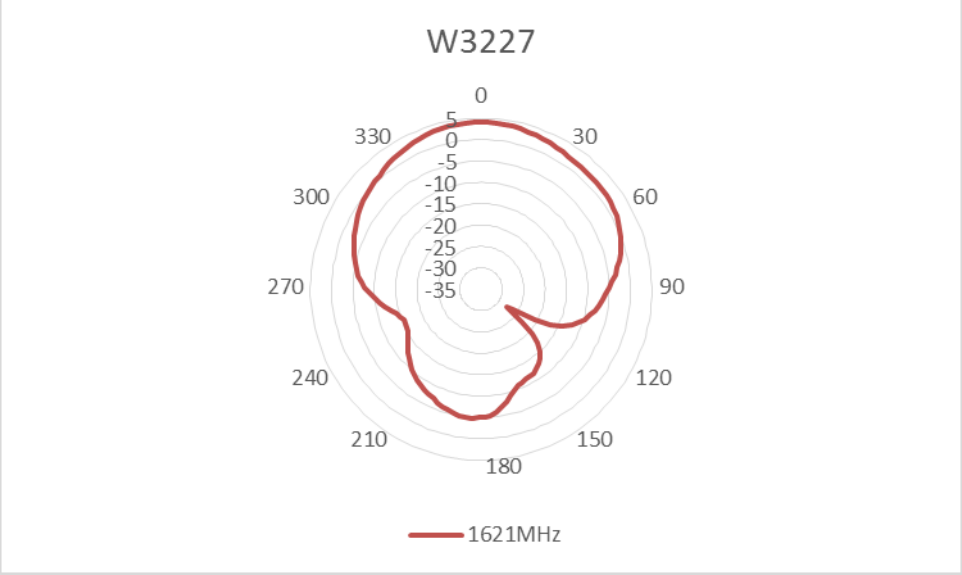
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CHARTS

RHCP Gain at Zenith



Radiation Pattern



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PACKAGING

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









P/N:	W3227
Q'ty:	120 PCS
Date:	24-01-2019
Shift:	L







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