

**Description:** 25x25x4mm GPS/Glonass Pin Mount

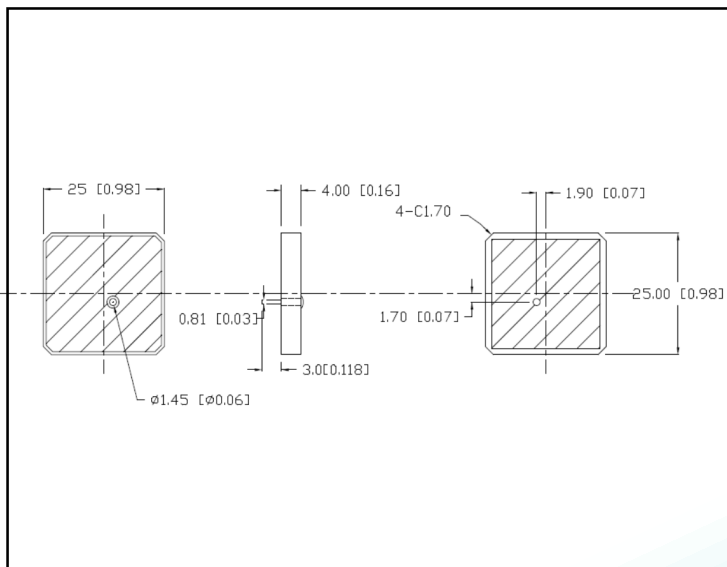
**Series:** Ceramic Patch

**PART NUMBER:** W3223



**Features:**

- 1575/1602MHz Dualband single feed antenna
- RHCP Polarization
- Zenith Gain +4dBiC
- Pin mounting
- Tray packing
- Moisture sensitivity level:MSL1



**Applications:**

- GPS and Glonass satellite receivers
- Tracking, Navigation, Satellite Positioning
- Fleet management
- Asset tracking

All dimensions are in mm / inches

Issue: 1910

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

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## ELECTRICAL SPECIFICATIONS

Frequency	1575.42±1.023/1602.5625±4 MHz
Nominal Impedance	50 Ω
Return Loss*	<-10 dB
RHCP Gain (typical)*	4 dBiC
Zenith Axial Ratio(typical)*	3.8
Polarization:	RHCP

\* Measured on 70 x 70 mm reference board

\* Test the antenna on 70mmX70mm metal plane

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### MECHANICAL SPECIFICATIONS

Material	Ceramic
Metallization	Silver
Size	25 x 24 x 4 mm
Weight	9.3 g
Mounting type	Pin feed

### ENVIRONMENTAL SPECIFICATIONS

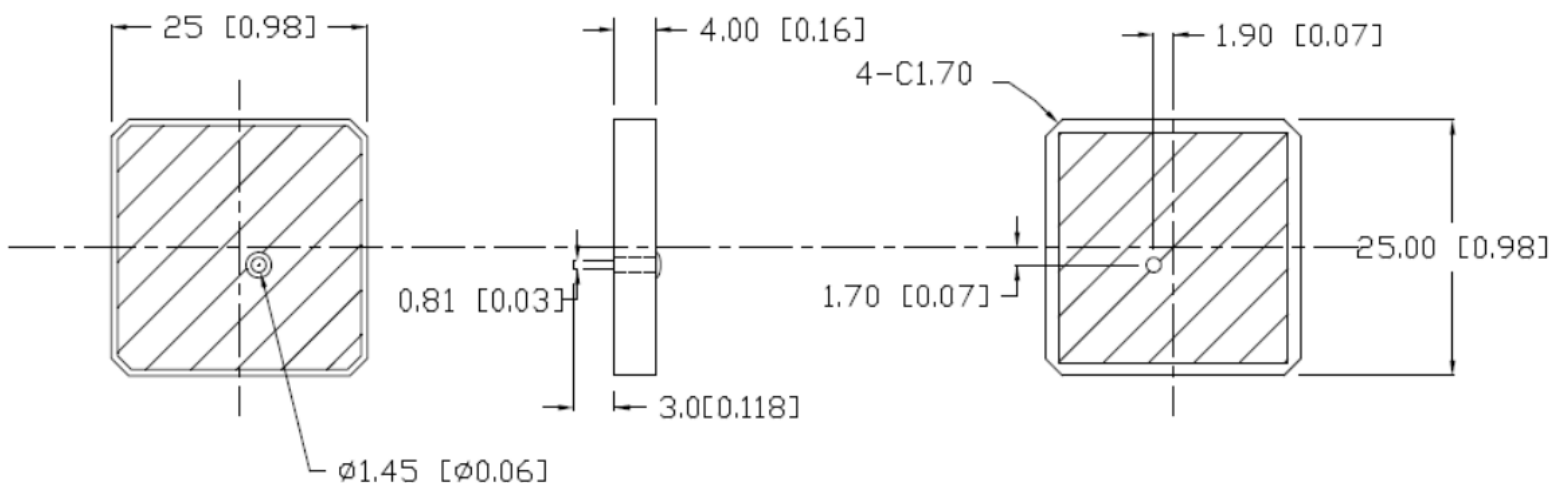
Operating temperature	-40/+85 ° C
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**MECHANICAL DRAWING**



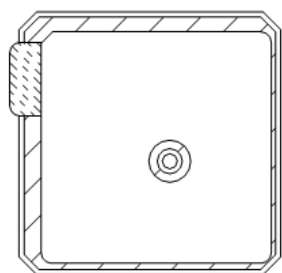
**Adhesive Transfer Tape Specification**

TAPE: Nitto 5000NS 22\*22\*0.16mm

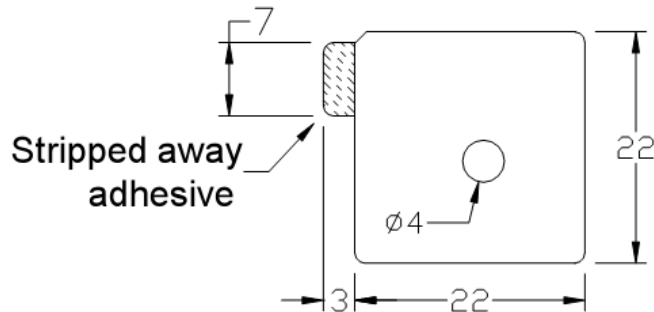
Thickness : 0.16  $\pm$  5% mm

Release Liner : 0.1mm (typ.) printed paper or paper

Dimension : mm



Patch bottom



Stripped away adhesive

Tolerance:  $\pm 0.2$ mm

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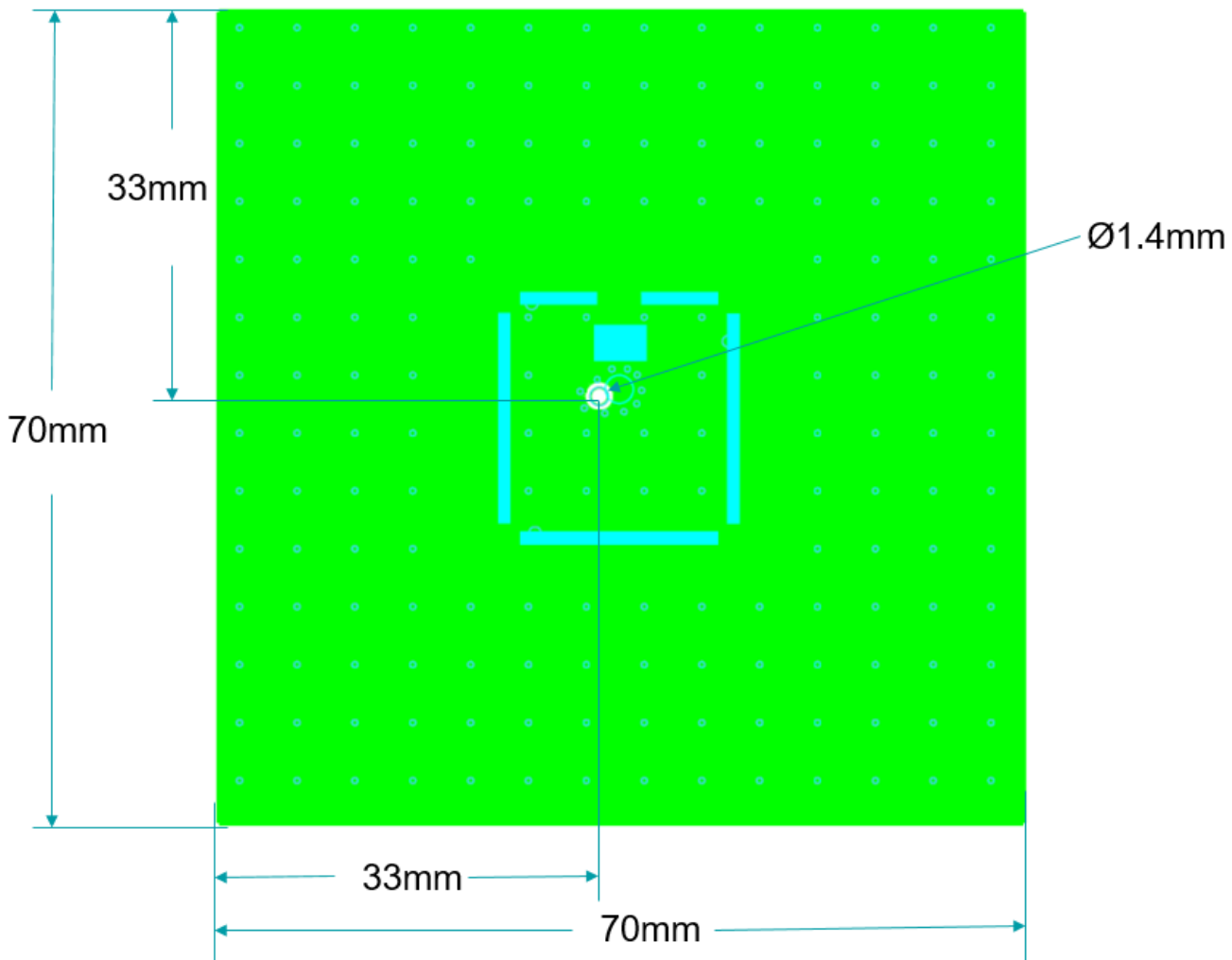
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**OTHER SPECIFICATIONS**

**Test Condition Ground Plane (Example for PCB 1 mm)**



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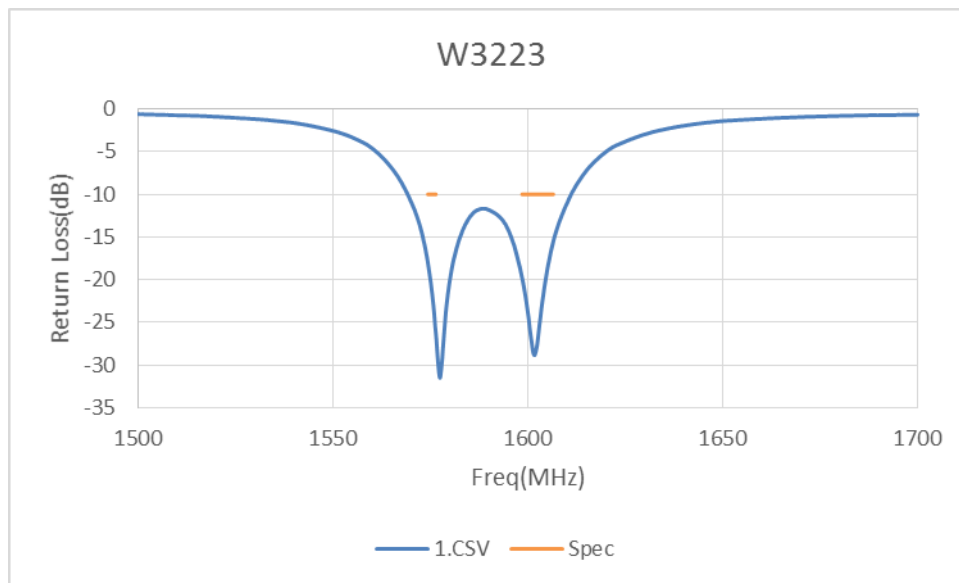
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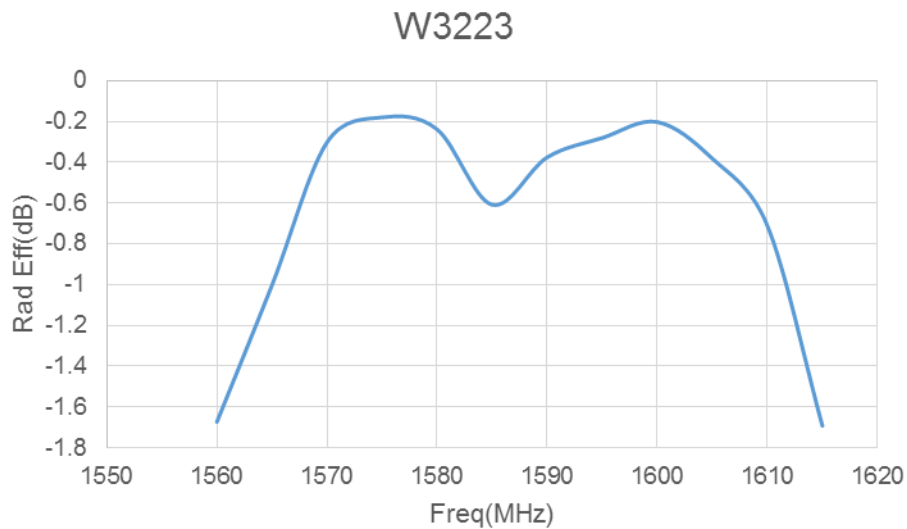
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**CHARTS**



**Return Loss**



**Total Radiation Efficiency**

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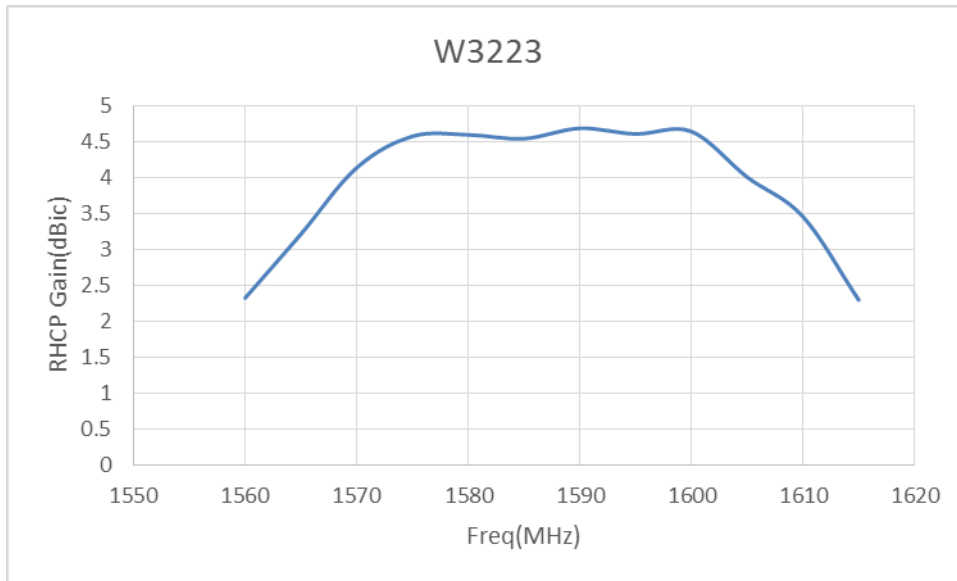
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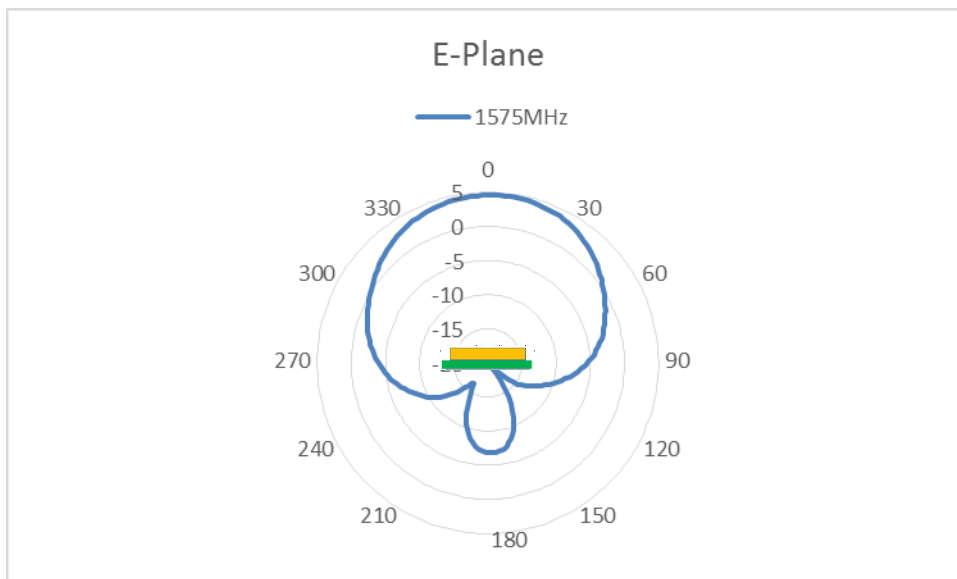
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**CHARTS**



**Zenith RHCP Gain**



**GPS Radiation pattern on 70mmX70mm metal plane**

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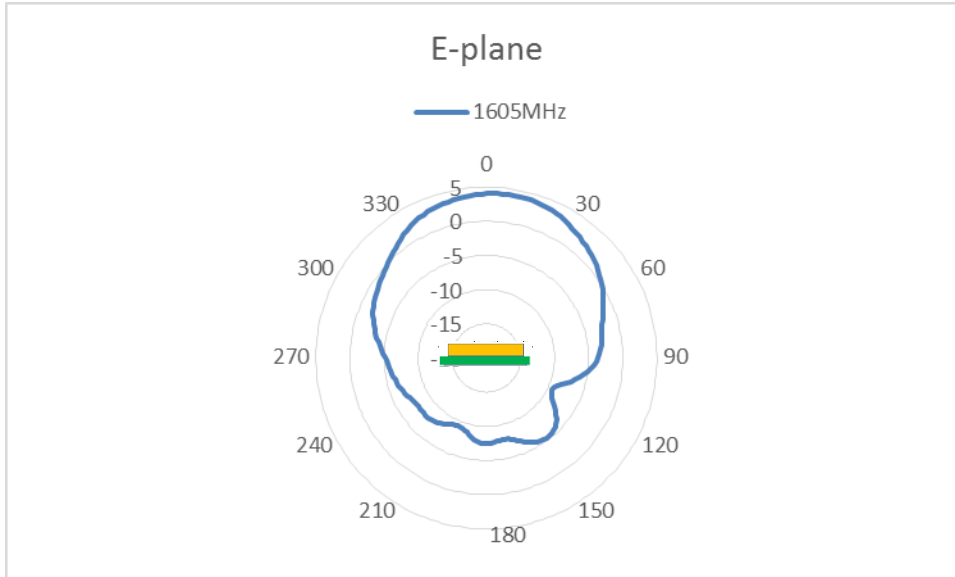
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**CHARTS**



Glonass Radiation pattern on 70mmX70mm metal plane



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## PACKAGING

Tray packing  
50PCS/Tray  
200PCS/small carton box  
800PCS/big carton box  
Big box dimensions (MM): 472x240x290

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