

## SPECIFICATION

- Part No. : **GP.1575.25.2.A.02**
- Product Name : 2mm GPS/Galileo Patch Antenna
- Features : 25mm x 25mm x 2mm  
RoHS Compliant



## 1. Introduction

This miniaturized ceramic GPS/GALILEO patch antenna is based on smart *XtremeGain*™ technology. It is mounted via pin and double-sided adhesive and has been selected as optimal solution for the customer device environment.

### Precaution for Use

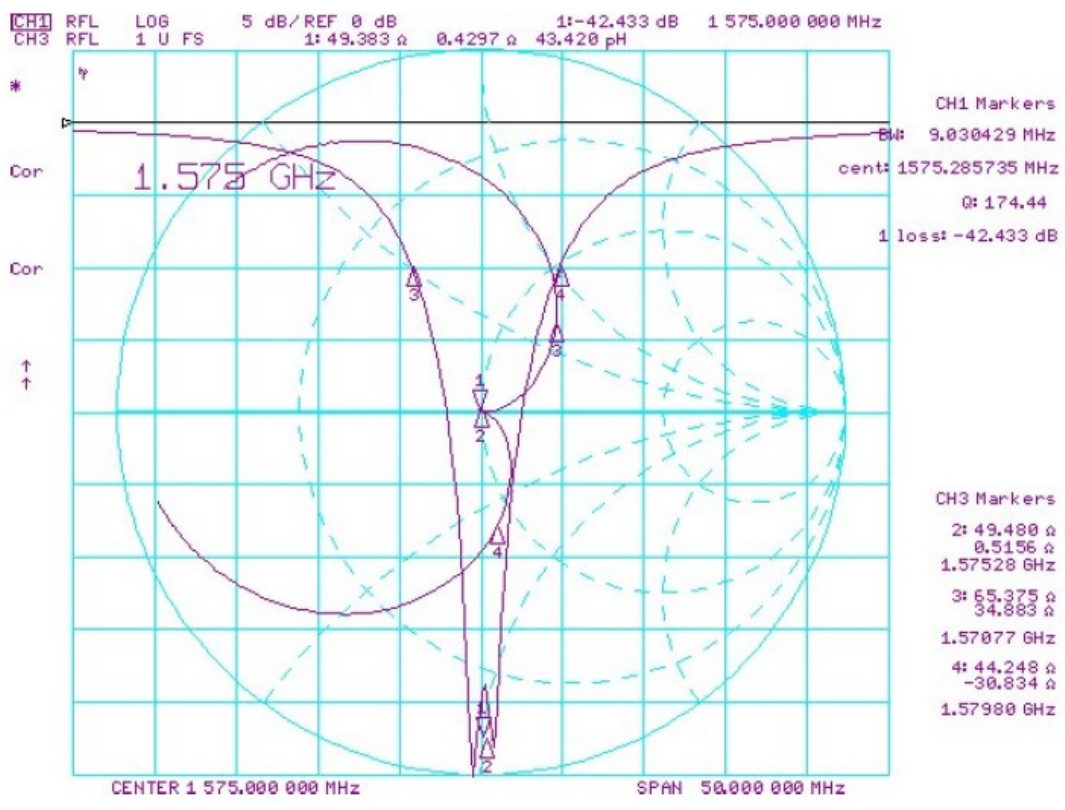
- The metal pattern on ceramic patch is silver electrode
- Please do not use corrosion gas (sulfur gas, chlorine gas) in the atmosphere.
- Please do not direct solder anything onto the silver electrode of the patch

## 2. Specification

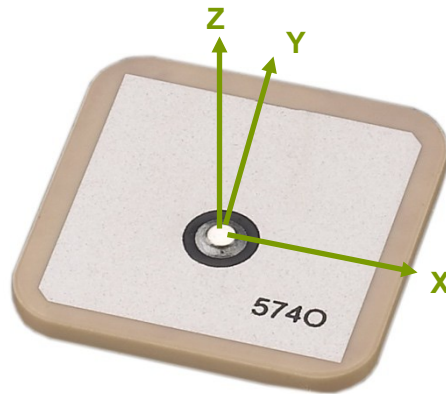
Parameter	Specification
Range of Receiving Frequency	1575.42MHz ± 2MHz
Bandwidth	5 MHz (10dB Return Loss)
VSWR	1.5 max
Gain at Zenith	+2.0 dBic typ.
Gain at 10° elevation	-4.0 dBic typ.
Axial Ratio	3.0 dB max
Polarization	Right Hand Circular Polarization
Weight	8 g
Operating Temperature	-40°C to +85°C
Operating Temperature	-40°C to +85°C

\*All electrical properties were tested with the antenna mounted on 35 x 35mm ground plane

### 3. S11 Electrical Property

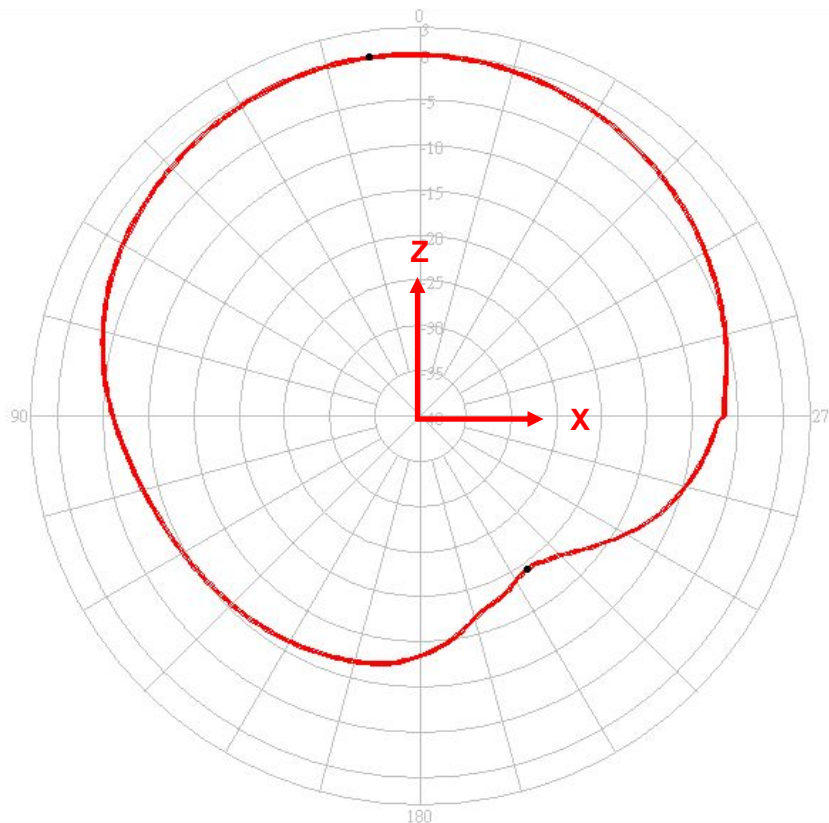


## 4. Radiation Pattern

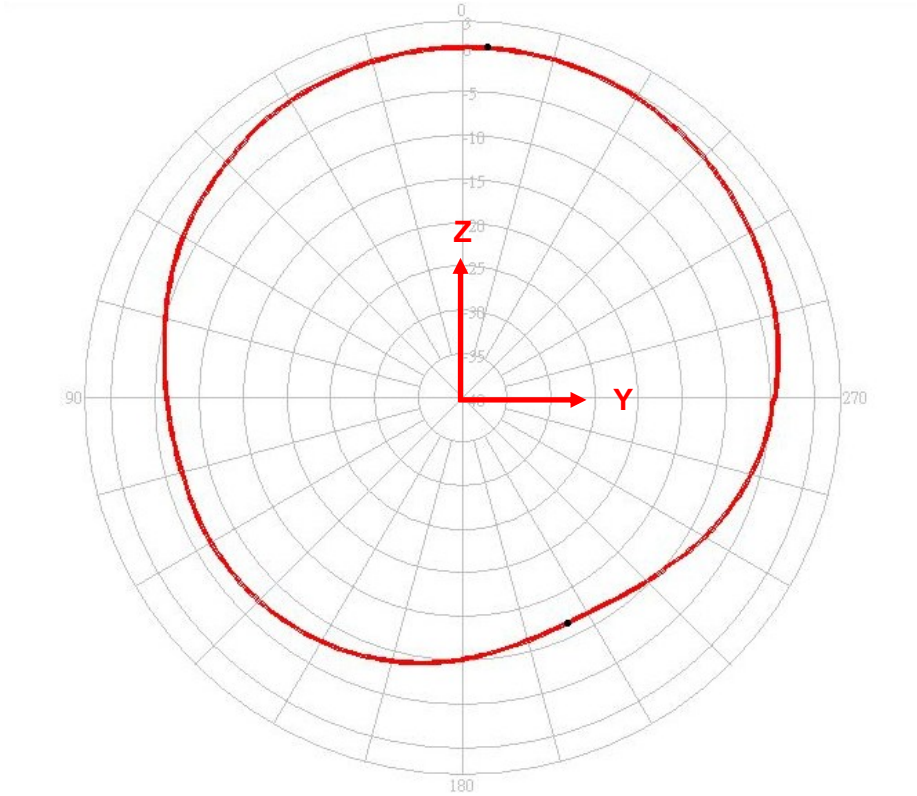


Test Plane	Frequency	Peak Gain	Min. Gain	Average Gain
XZ	1575.42MHz	0.0dBi @ 356°	-11.7dBi @ 205	-3.8dBi
YZ	1575.42MHz	0.0dBi @ 8°	-19.4dBi @ 215	-4.4dBi

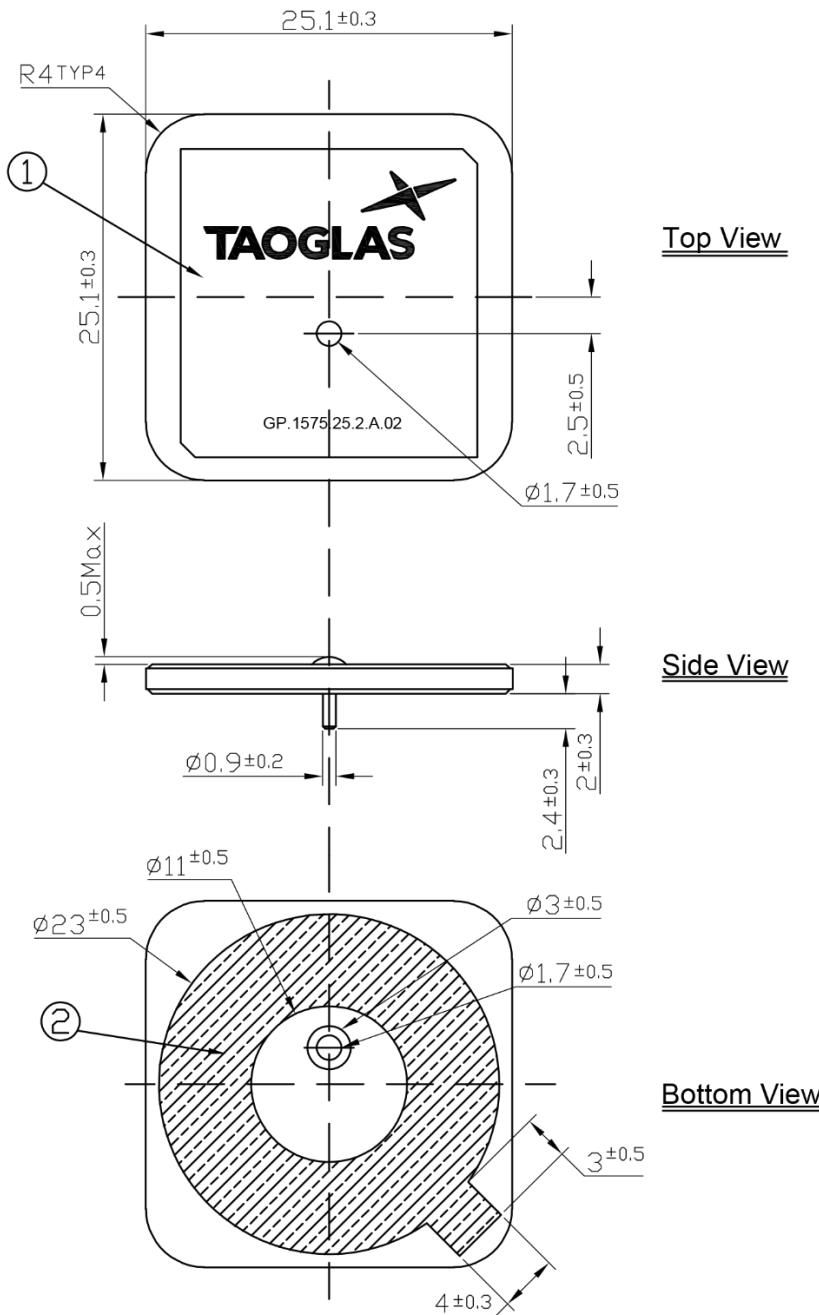
### 4.1.XZ Radiation Pattern



**4.2.YZ Radiation pattern**



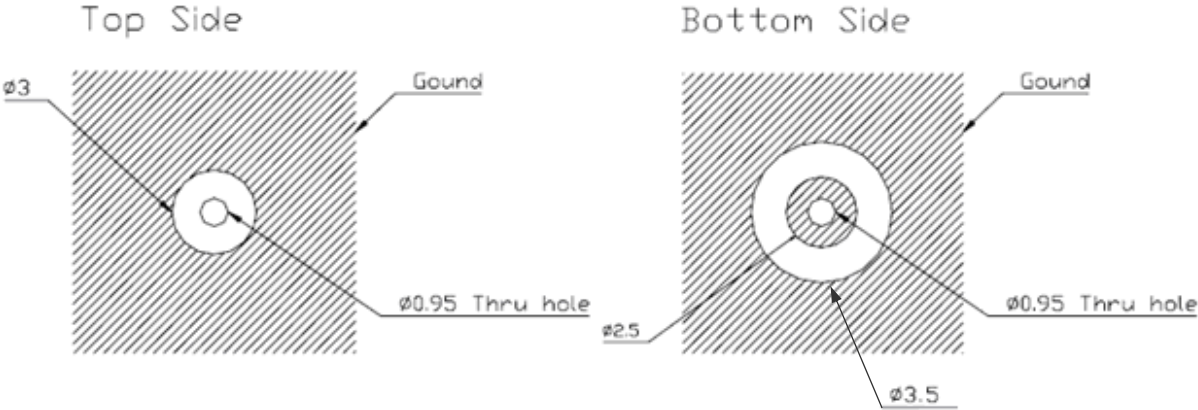
# 5. Mechanical Drawing



NOTES: 1. Double sided adhesive area 

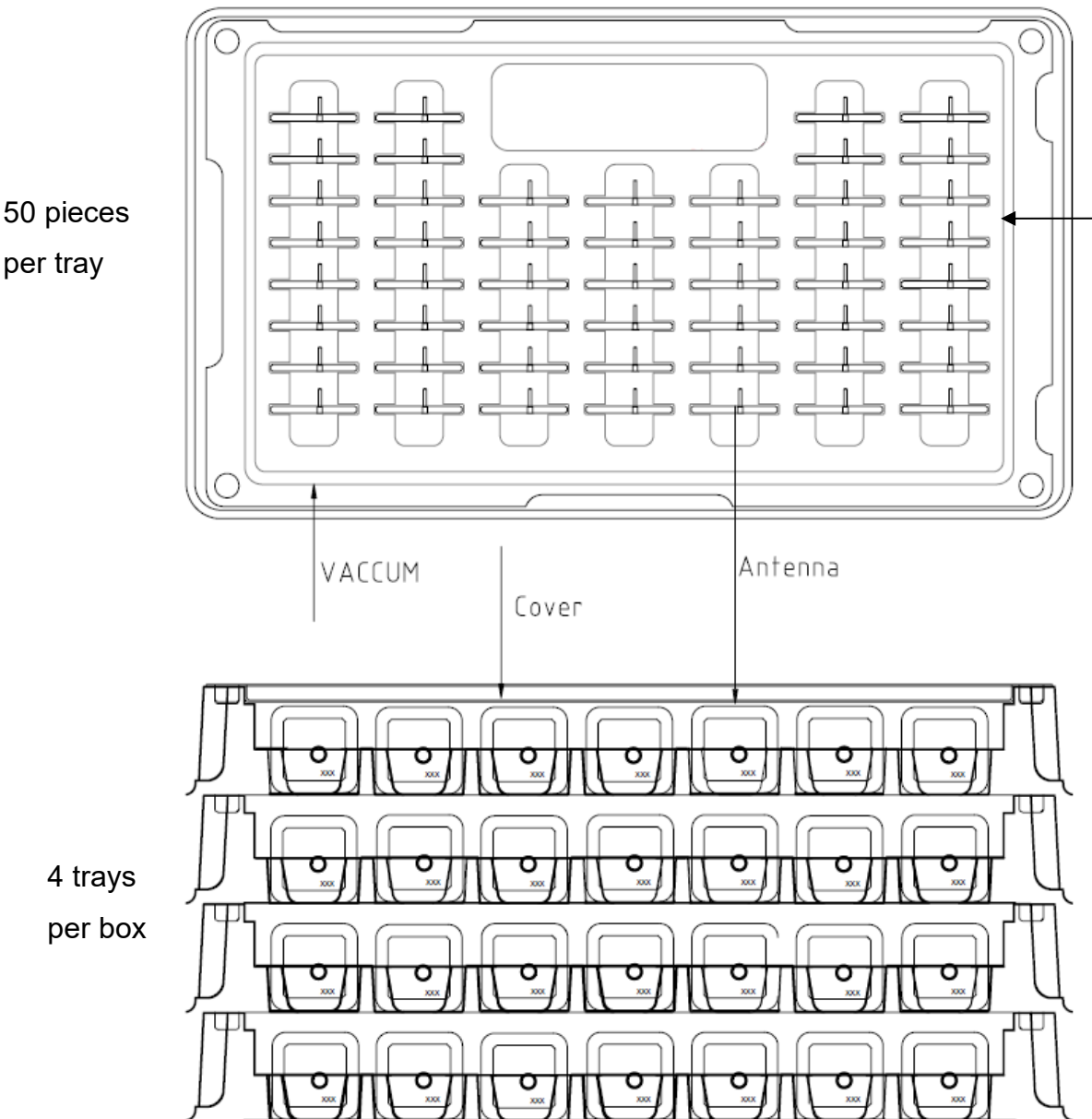
	Name	P/N	Material	Finish	QTY
1	Patch 25x25x2	001013C070007A	Ceramic	Clear	1
2	Double sided Adhesive	001012L060007A	NITTO 5015	White Linter	1

## 6. PCB Footprint Recommendation

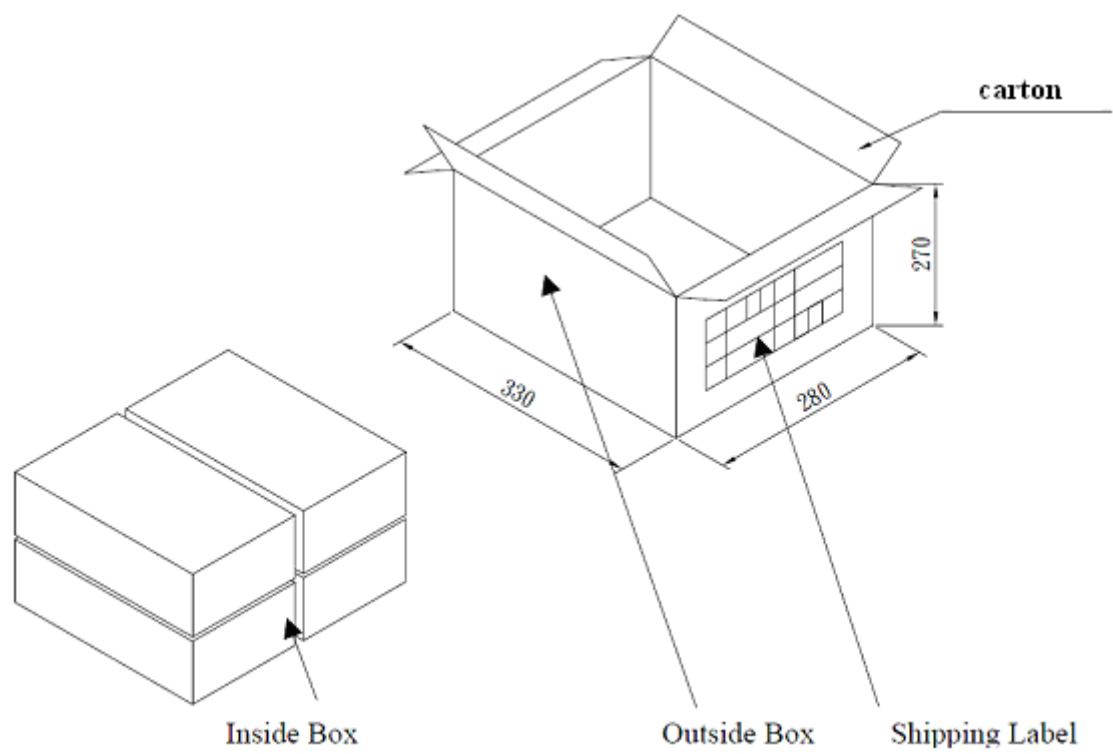
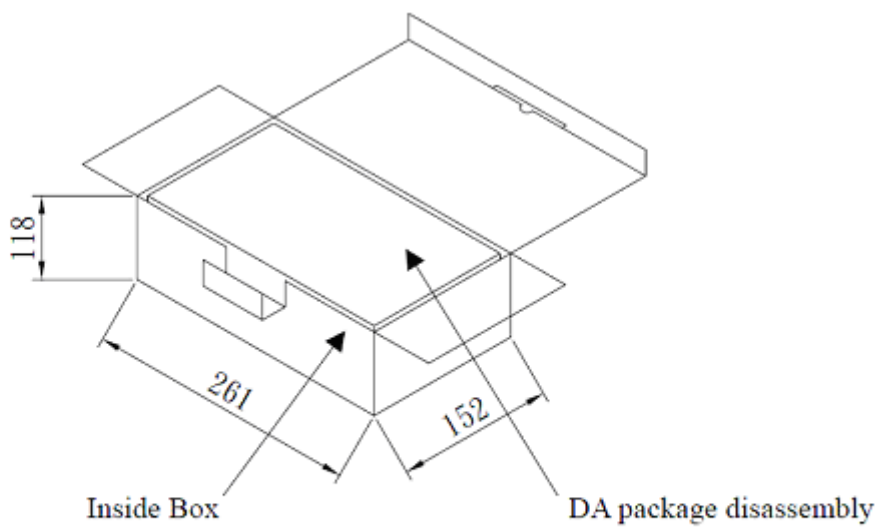


## 7. Packaging

- 50 pieces per tray.
- 4 trays per box = 200 pieces per box
- 4 box per carton = 800 piece per carton







Unit : mm

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