

## SPECIFICATION

Part No. : GP.1575.18.4.A.02

Product Name : Miniature GPS/GALILEO Patch Antenna

Features : 18mm\*18mm\*4mm

ROHS Compliant

:



## 1. Introduction

This 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 50x50mm ground plane.

## 2. Specification Table

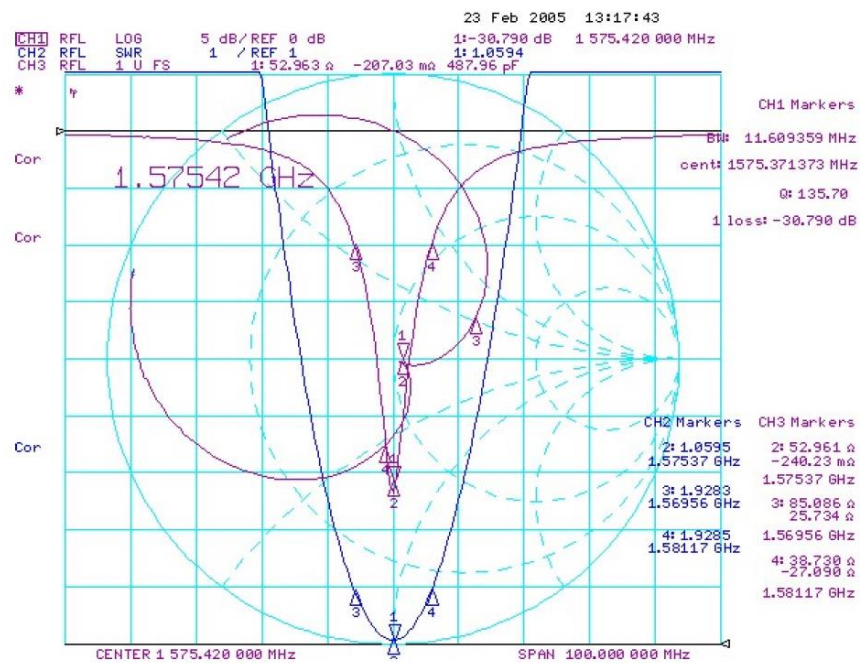
Original Patch Specification tested on 50\*50mm ground plane

| No | Parameter                                      | Specification                    |
|----|------------------------------------------------|----------------------------------|
| 1  | Center Frequency                               | 1575MHz +/- 3MHz**               |
| 2  | Impedance                                      | 50Ω                              |
| 3  | Bandwidth                                      | 8MHz min Return Loss <-10dB      |
| 4  | VSWR                                           | 1.5 max                          |
| 5  | Gain toward Zenith                             | +2.5 dBic typ.                   |
| 6  | Gain at 10°Elevation                           | -4.5 dBic typ.                   |
| 7  | Axial Ratio                                    | 3dB Max. Center Frequency        |
| 8  | Polarization                                   | Right Hand Circular Polarization |
| 9  | Frequency Temperature Coefficient ( $\tau_f$ ) | 0 ± 20ppm/°C                     |
| 10 | Operating Temperature                          | -40°C to +85°C                   |

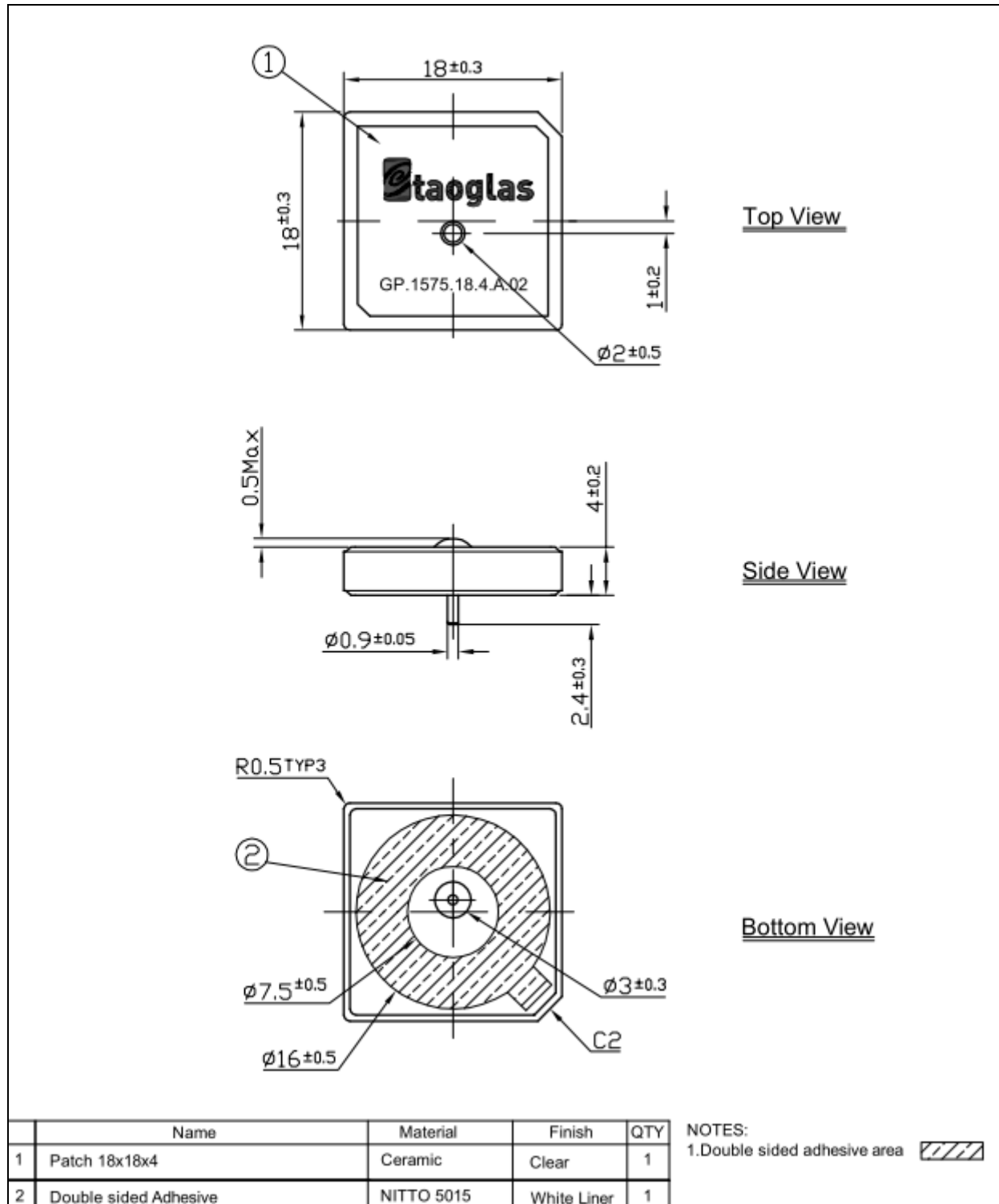
\*\*Changes in user groundplane and environment will offset centre frequency

## Electrical Specification

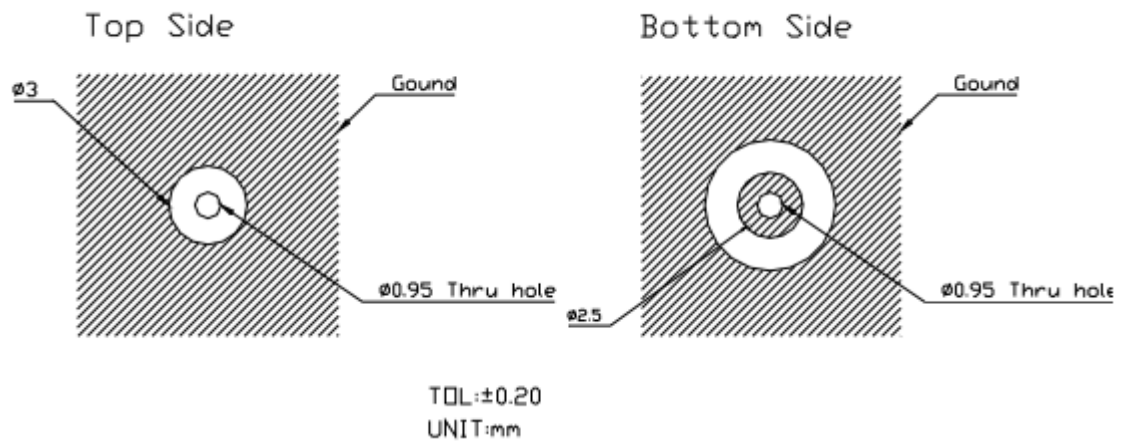
### 2.1. Smith Chart



### 3. Dimensions and Drawing

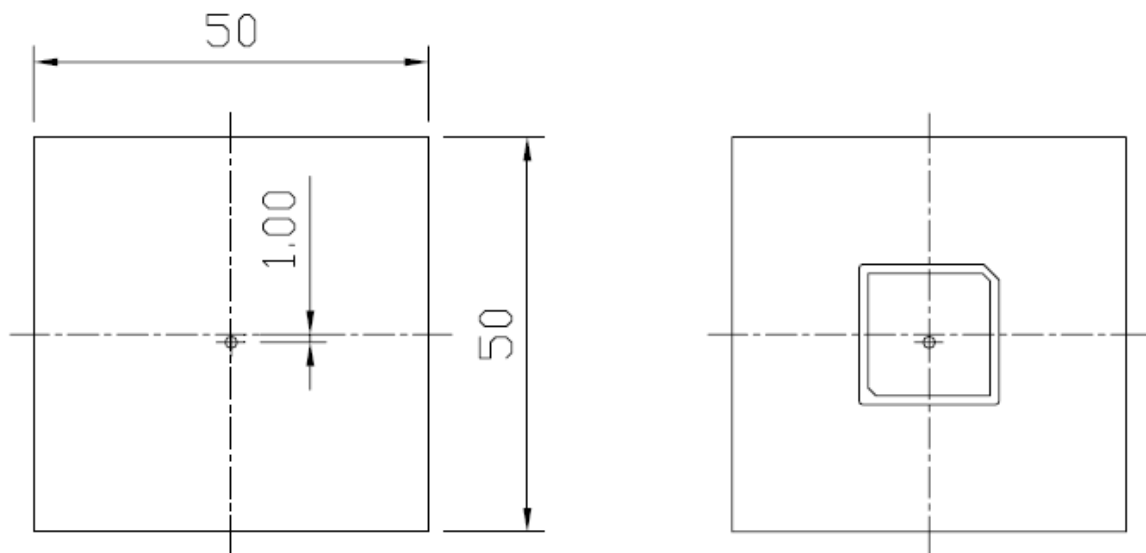


### 3.1. Layout Dimension

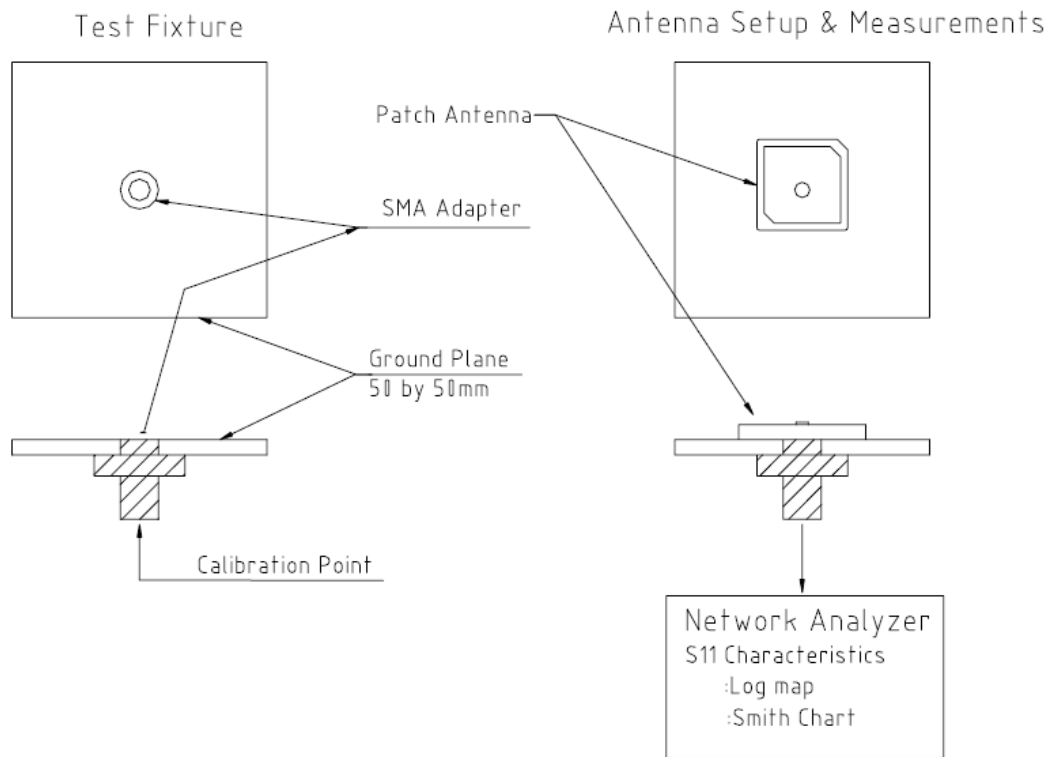


\*Note Layout Dimensions may be affected by the thickness of the PCB

### 4. Test Jig and Dimensions

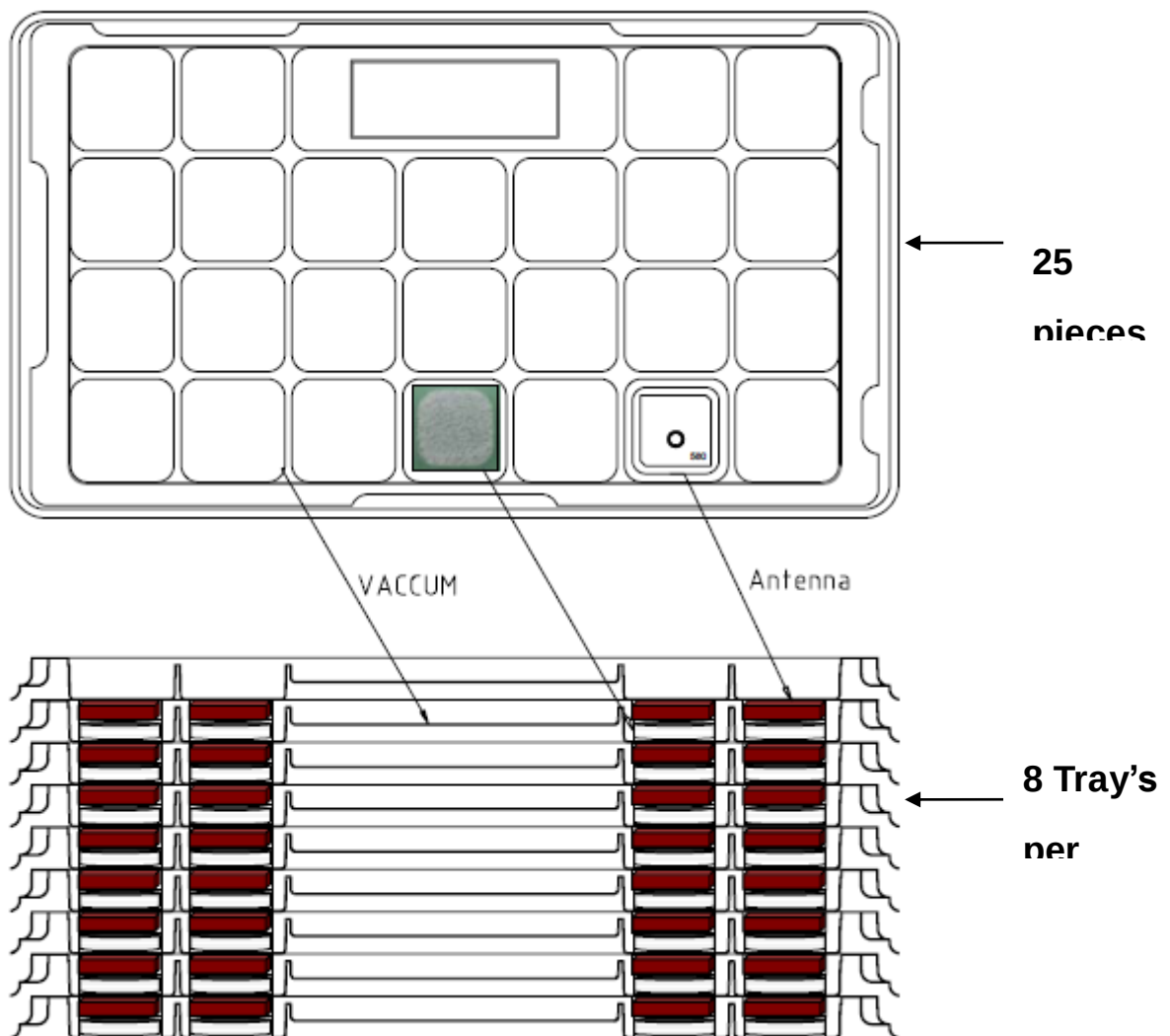


## 4.1. Test Fixture Antenna Setup & Measurements

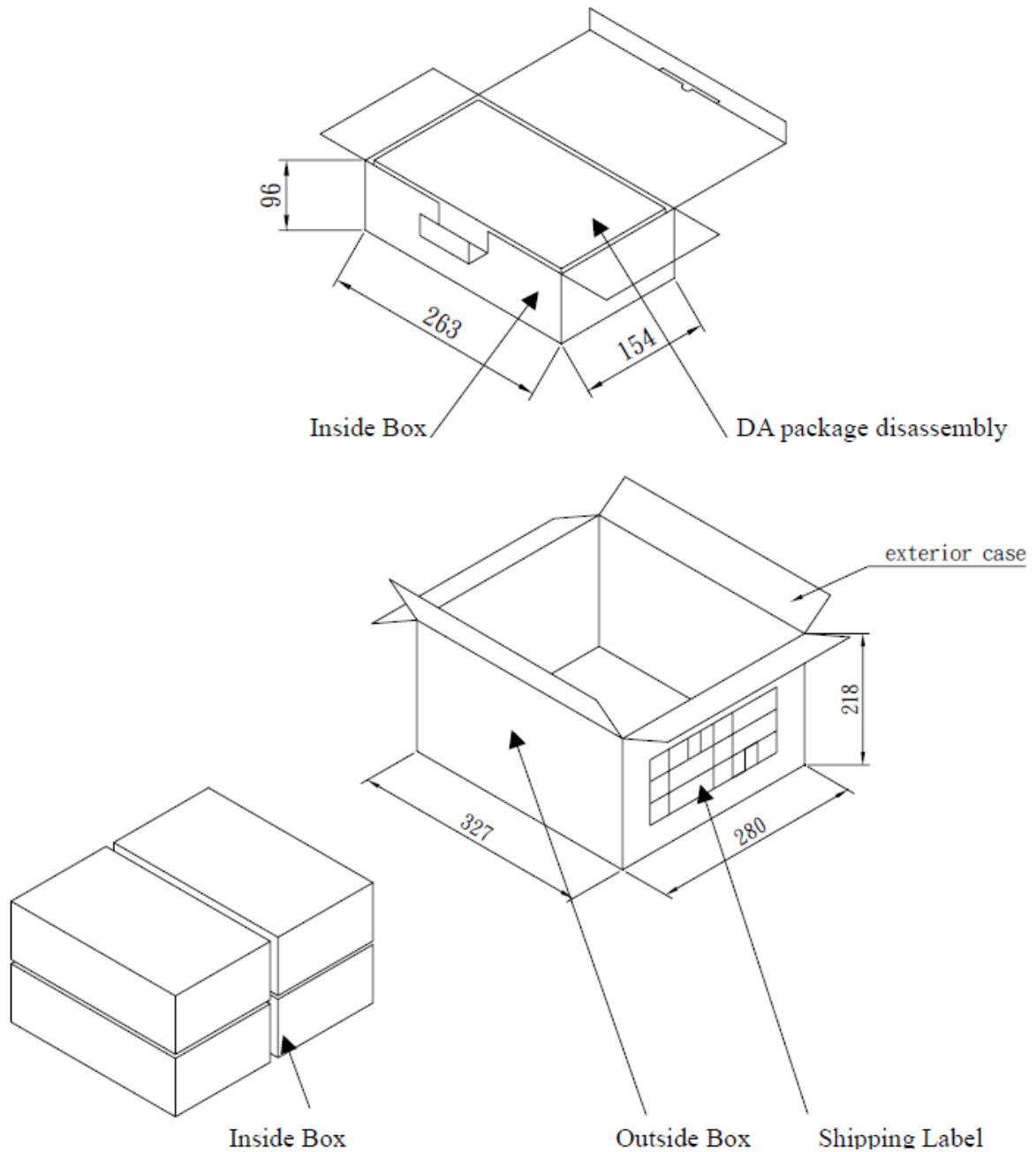


## 5. Packaging

- Per Tray: 25 pieces
- Per Carton(Inside Box) – 8 Trays = 200 pieces
- Outer Carton (Outside Box)– 4 Cartons = 800 pieces



## Packing



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