

## 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

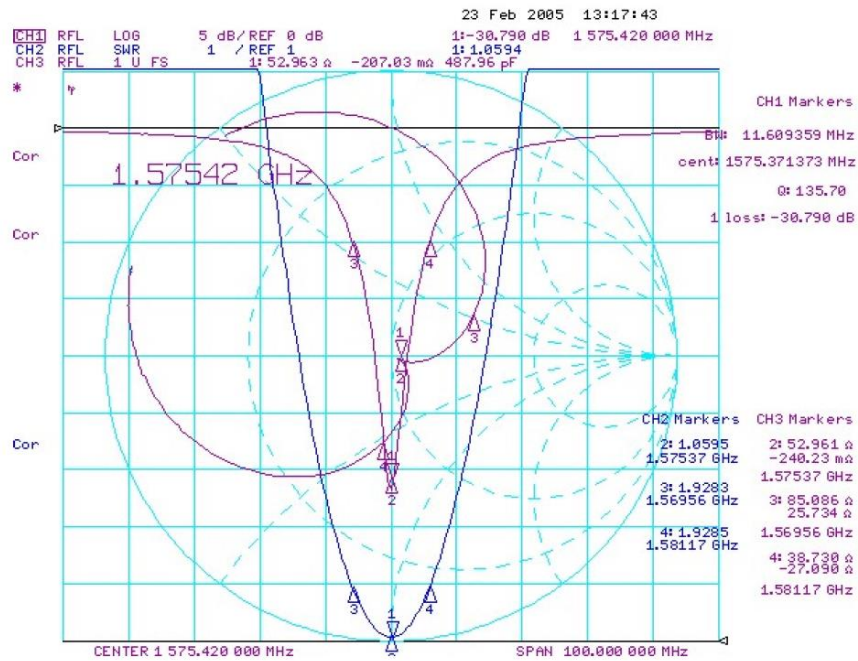
Original Patch Specification tested on 50\*50mm ground plane

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 ( τf )	0 ± 20ppm/°C
10	Operating Temperature	-40°C to +85°C

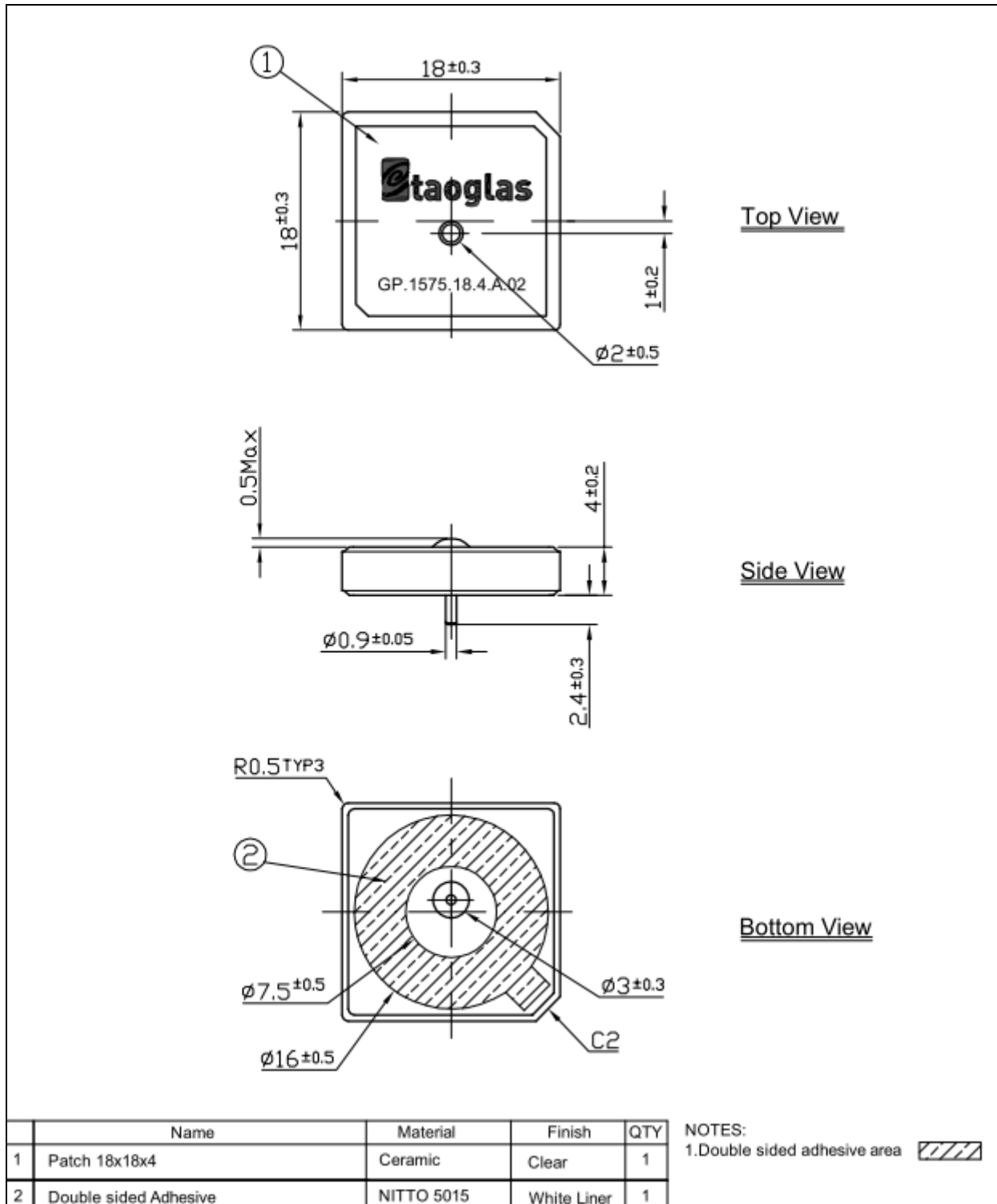
\*\*Changes in user groundplane and environment will offset centre frequency

Electrical Specification

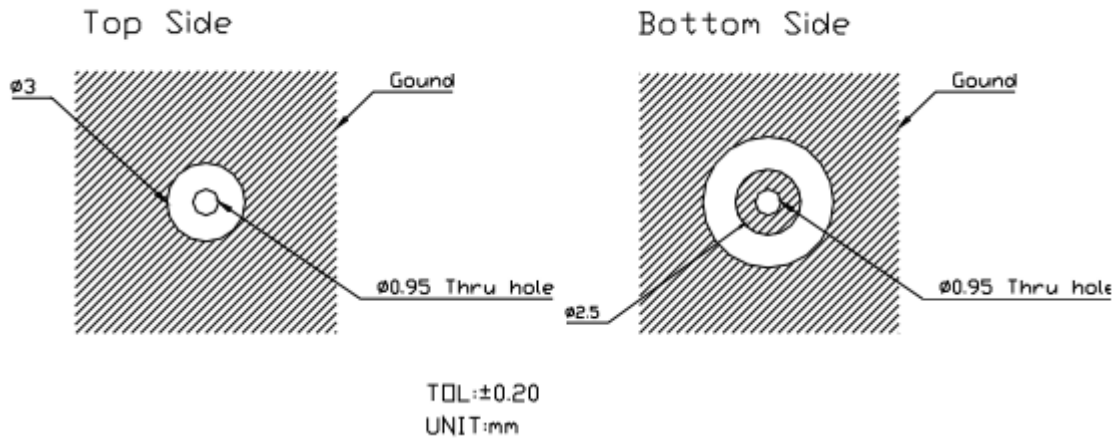
**2.1. Smith Chart**



### 3. Dimensions and Drawing

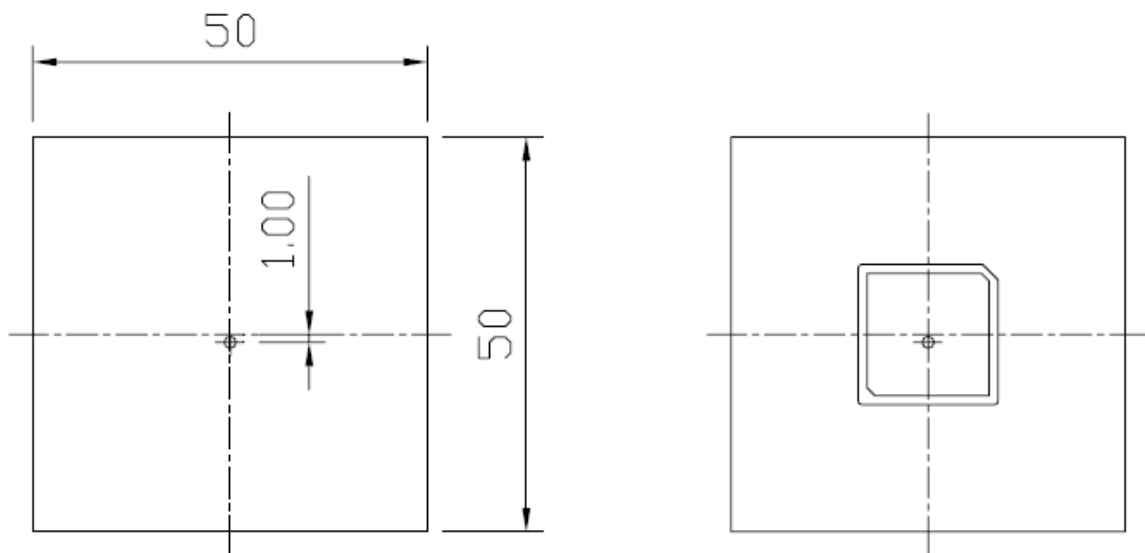


### 3.1. Layout Dimension

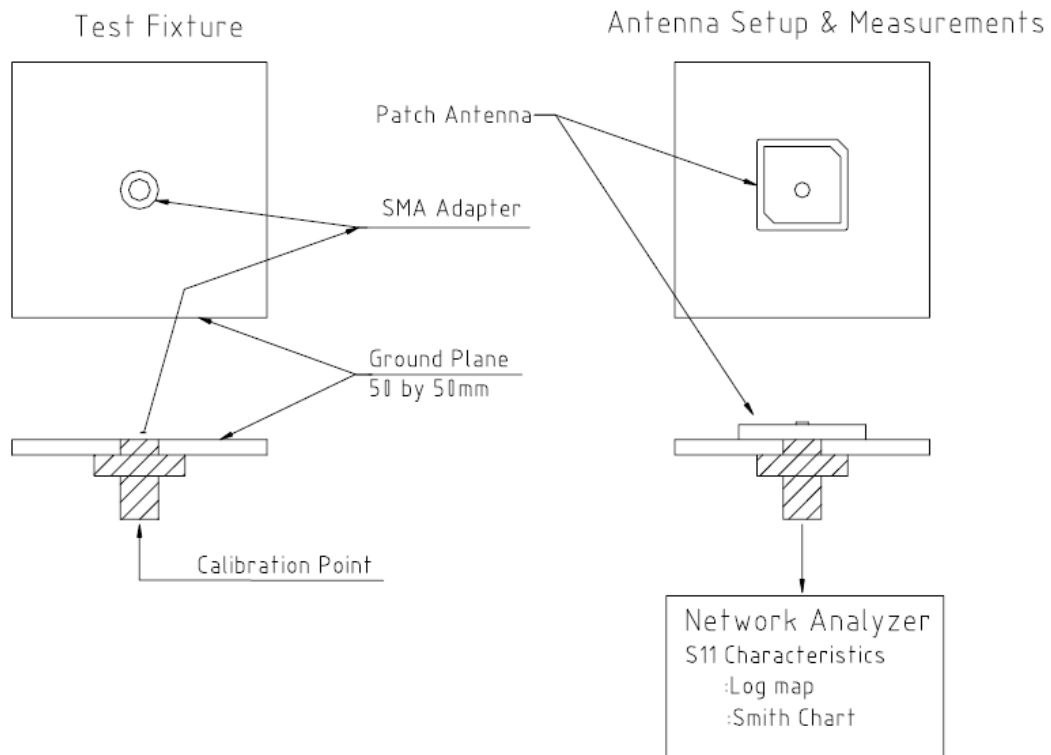


\*Note Layout Dimensions may be affected by the thickness of the PCB

### 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

