

# **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  $XtremeGain^{\intercal}$  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

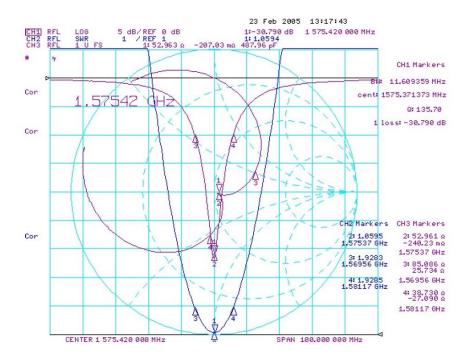
No	Parameter	Specification	
1	Center Frequency	1575MHz +/- 3MHz**	
2	Impedance	50Ω	
3	Bandwidth	8MHz min Return Loss <-10dB	
4	VSWR	1.5 max	
5	Gain toward Zenith	+2.5 dBic typ.	
6	Gain at 10°Elevation	-4.5 dBic typ.	
7	Axial Ratio	3dB Max.	Center Frequency
8	Polarization	Right Hand Circular Polarization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

<sup>\*\*</sup>Changes in user groundplane and environment will offset centre frequency



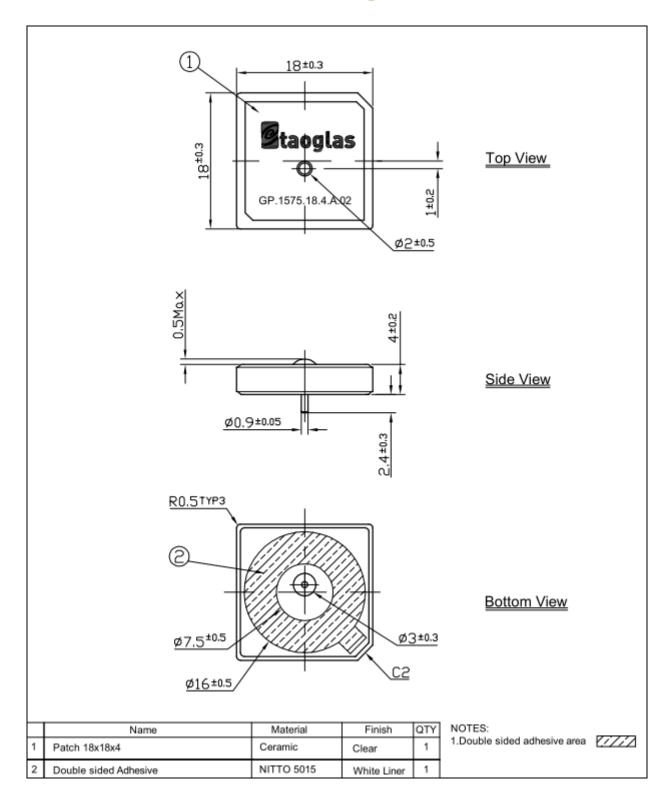
#### **Electrical Specification**

#### 2.1. Smith Chart



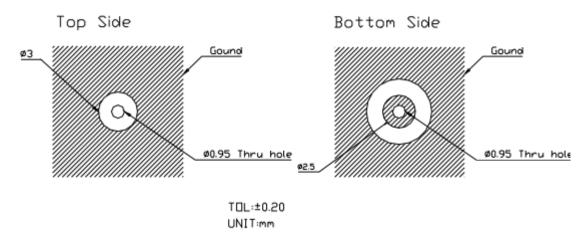


# 3. Dimensions and Drawing



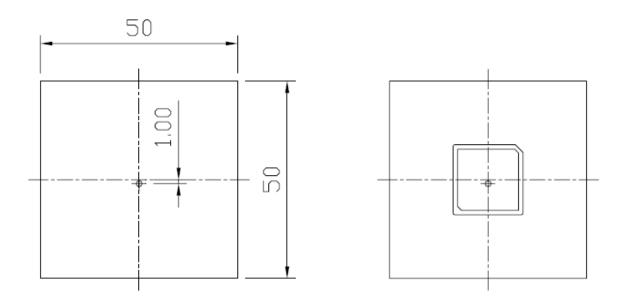


### 3.1. Layout Dimension



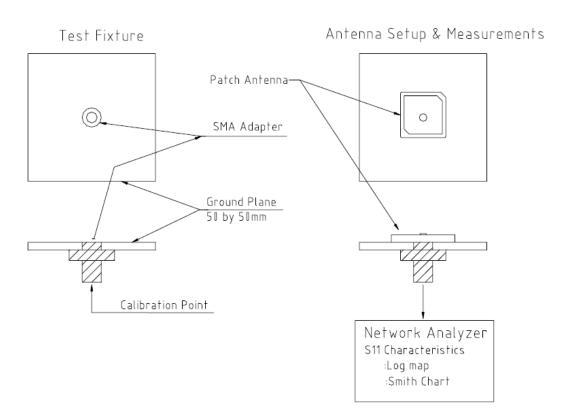
\*Note Layout Dimensions may be affected by the thickness of the PCB

## 4. Test Jig and Dimensions





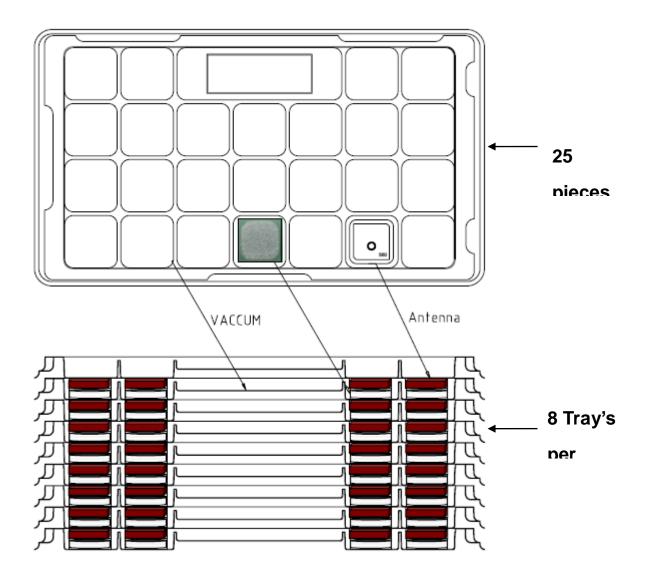
### 4.1. Test Fixture Antenna Setup & Measurements





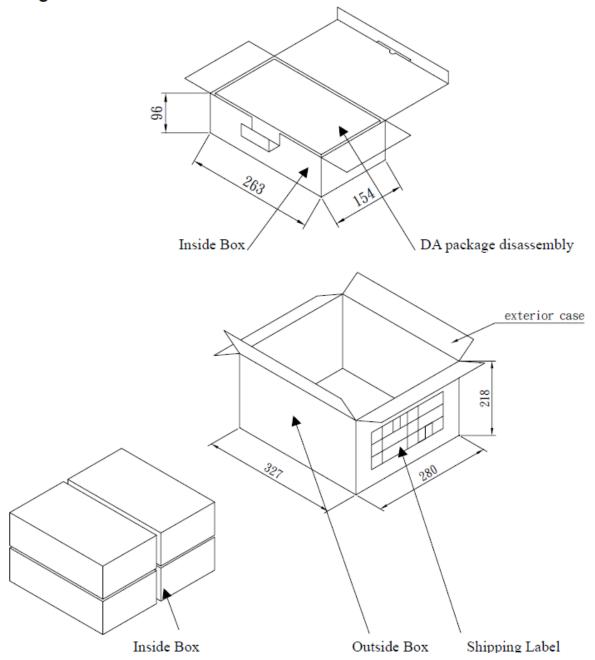
## 5. Packaging

- 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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