

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

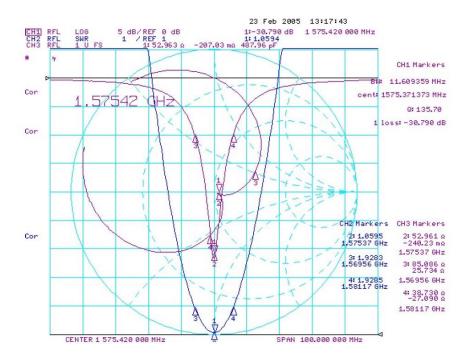
No	Parameter	Specification	
1	Center Frequency	1575MHz +/- 3MHz**	
2	Impedance	50Ω	
3	Bandwidth	8MHz min Return Loss <-10dB	
4	VSWR	1.5 max	
5	Gain toward Zenith	+2.5 dBic typ.	
6	Gain at 10°Elevation	-4.5 dBic typ.	
7	Axial Ratio	3dB Max.	Center Frequency
8	Polarization	Right Hand Circular Polarization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

^{**}Changes in user groundplane and environment will offset centre frequency



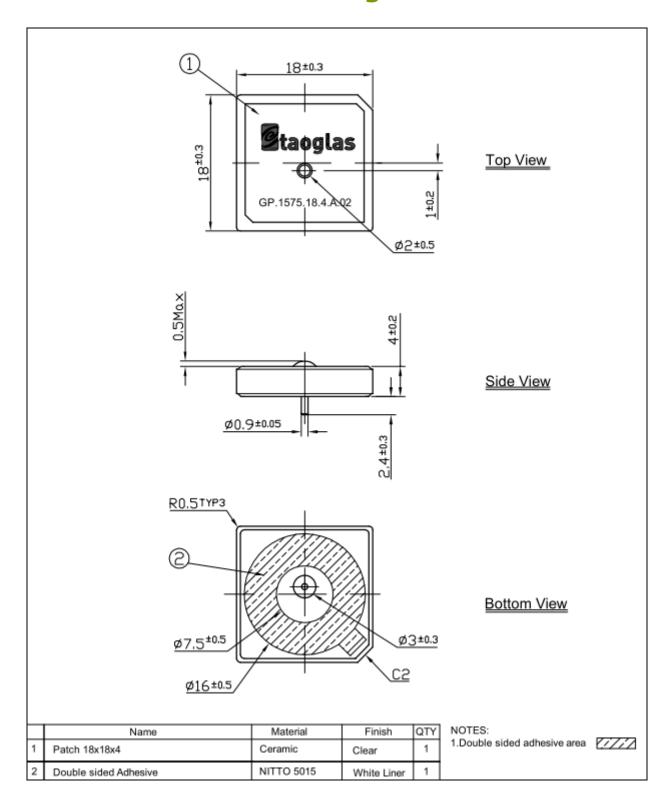
Electrical Specification

2.1. Smith Chart



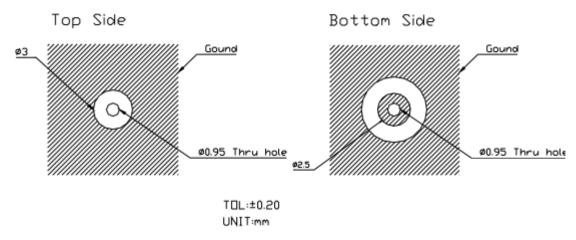


3. Dimensions and Drawing



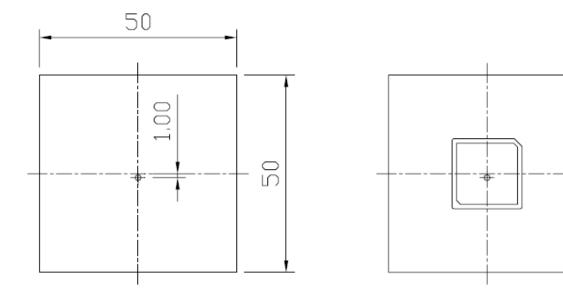


3.1. Layout Dimension



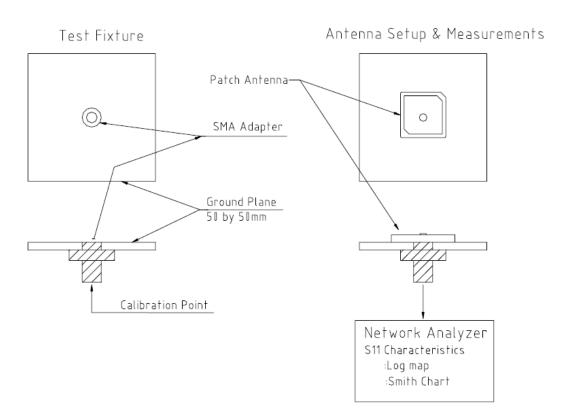
*Note Layout Dimensions may be affected by the thickness of the PCB

4. Test Jig and Dimensions





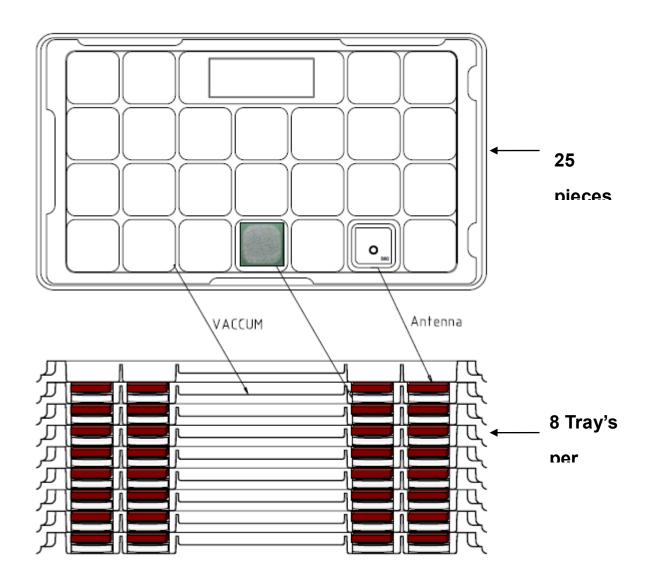
4.1. Test Fixture Antenna Setup & Measurements





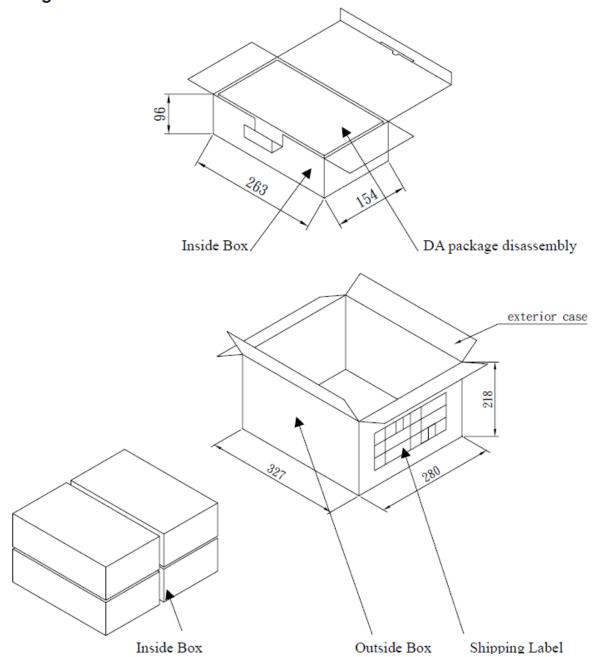
5. Packaging

- 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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Declaration of Conformity

Taoglas hereby declares under its sole responsibility, that the following products are compliant with the essential requirements and other relevant provisions of the the Restriction of the use of certain Hazardous Substances Directive (RoHS) 2015/863/EU.

Part Number: GP.1575

Description: Passive GPS/Galileo Patch Antenna

Requirements:

ROHS Directive 2015/863/EU Standards
Prevention (Article 4.1) EN 50581:2012

Authorized representative within the European Union:

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Name Ronan Quinlan

Position CO-CEO

Date 27th March, 2020

Signed:

