

## SPECIFICATION

Part No. : **GP.1575.25.4.A.02**

Product Name : **4mm thick GPS Patch Antenna**

Features : 25mm\*25mm\*4mm  
Halogen Free  
ROHS Compliant

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# 1. Introduction

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

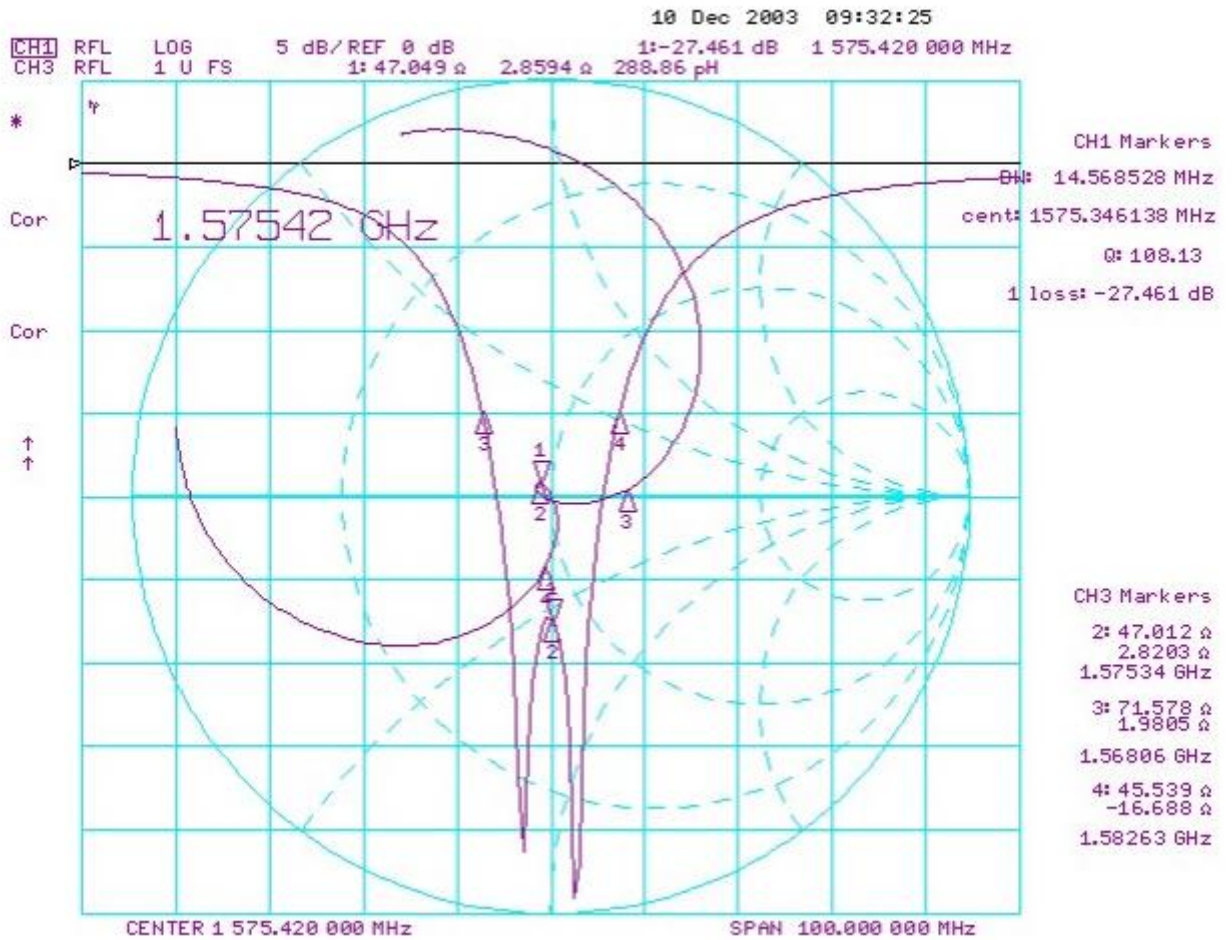
# 2. Specification Table

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

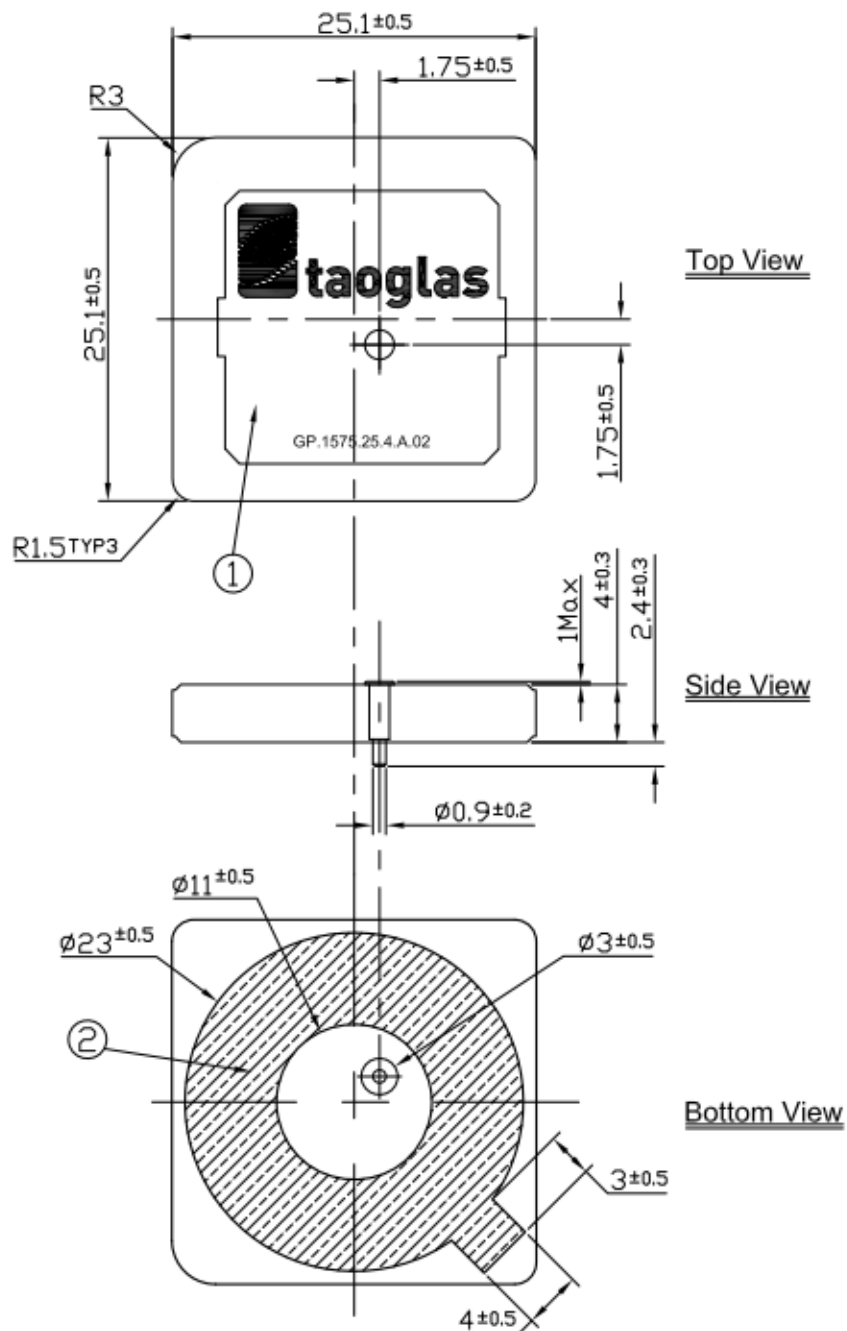
No	Parameter	Specification
1	Range of Receiving Frequency	1575.42MHz +/- 1.023MHz
	Center Frequency	1575MHz +/- 3MHz
2	Impedance	50Ω
3	Bandwidth	10 MHz min Return Loss <-10dB
4	VSWR	1.5 max
5	Gain toward Zenith	3.5 dBi typ.
6	Gain at 10°Elevation	-2.5 dBi typ.
7	Axial Ratio	3dB Max.
8	Polarization	Right Hand Circular Polarization
9	Frequency Temperature Coefficient ( Tf )	0 ± 20ppm/°C
	Operating Temperature	-40°C to +85°C

### 3. Electrical Specification

#### 3.1 Smith Chart



## 4. 2D Mechanical Drawing

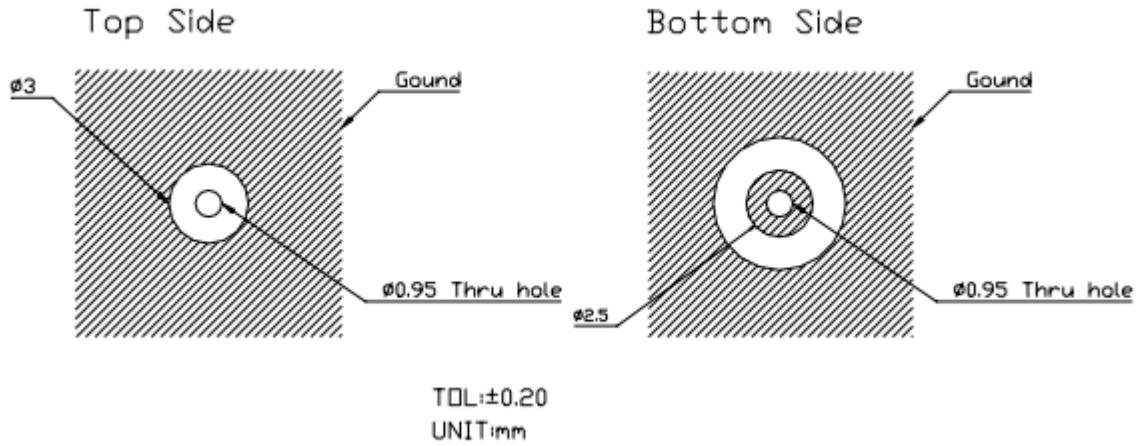


**NOTES:**

1. Double sided adhesive area 

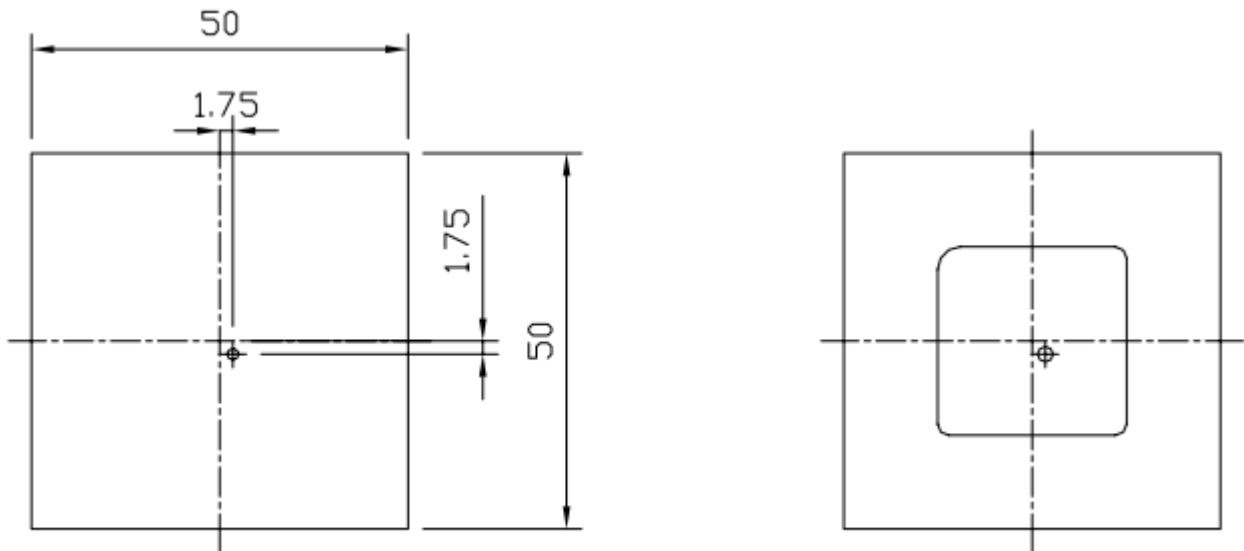
	Name	Material	Finish	QTY
1	GP.1575 Patch 25x25x4	Ceramic	Clear	1
2	Double sided Adhesive	NITTO 5015	White Liner	1

### 5.1 Layout Dimension

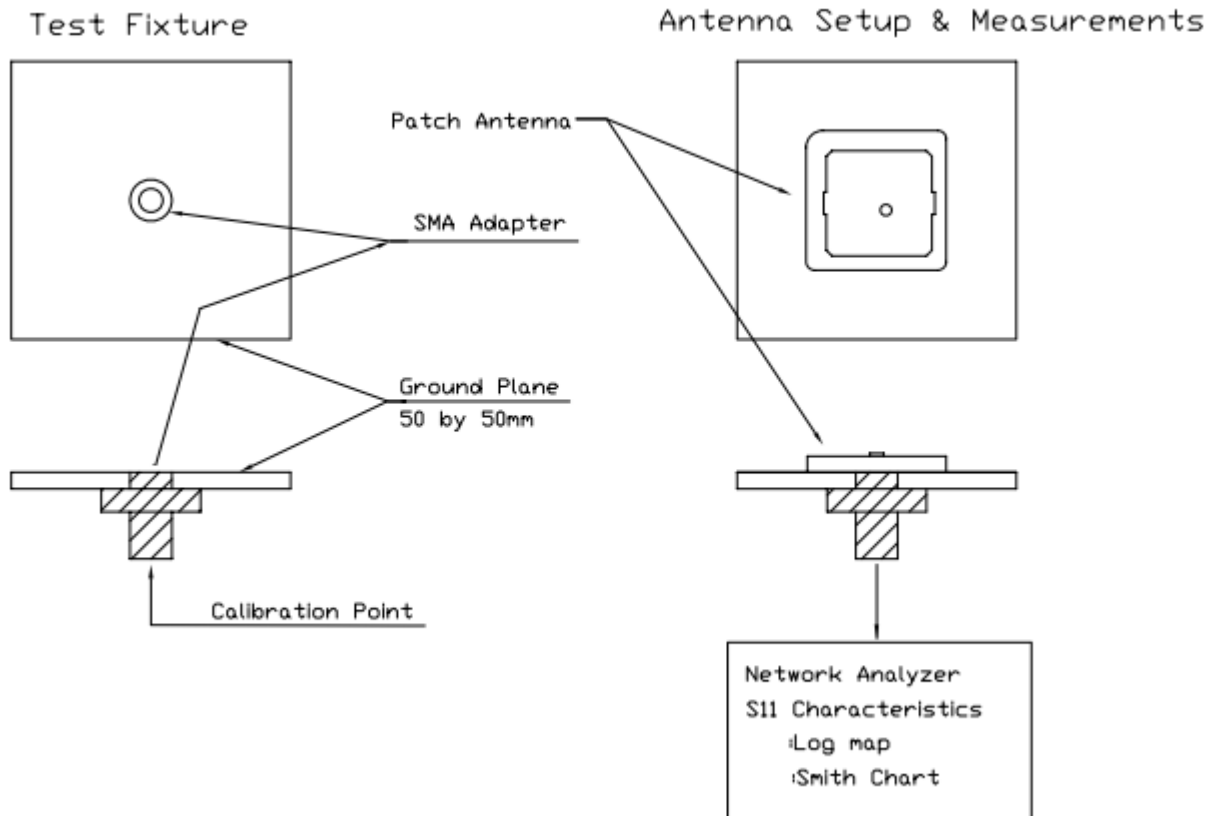


\*Note Layout Dimensions may be affected by the thickness of the PCB

### 5. Test Jig and Dimension



## 5.1 Test Fixture Antenna Setup and Measurements



## 6. Packaging

50 pieces per Tray

200 per Inner Carton

4 x 200 – 800 pieces per Outer Carton

