

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 $XtremeGain^{\intercal}$ 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

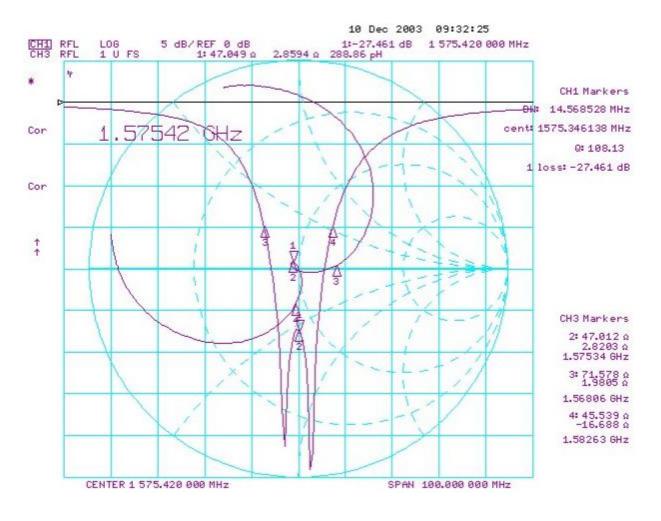
Original Patch Specification tested on 50*50mm ground plane

0.15	Original rateri Specification tested on 30 30mm ground plane								
No	Parameter	Specification							
	Range of Receiving Frequency	1575.42MHz +/- 1.023MHz							
1	Center Frequency	1575MHz +/- 3MHz							
2	Impedance	50Ω							
3	Bandwidth	10 MHz min Return Loss <-10dB							
4	VSWR	1.5 max	Control Francisco						
5	Gain toward Zenith	3.5 dBi typ.							
6	Gain at 10°Elevation	-2.5 dBi typ.	Center Frequency						
7	Axial Ratio	3dB Max.							
8	Polarization	Right Hand Circular Polarization							
	Frequency Temperature								
9	Coefficient (τf)	0 ± 20ppm/°C							
10	Operating Temperature	-40°C to +85°C							



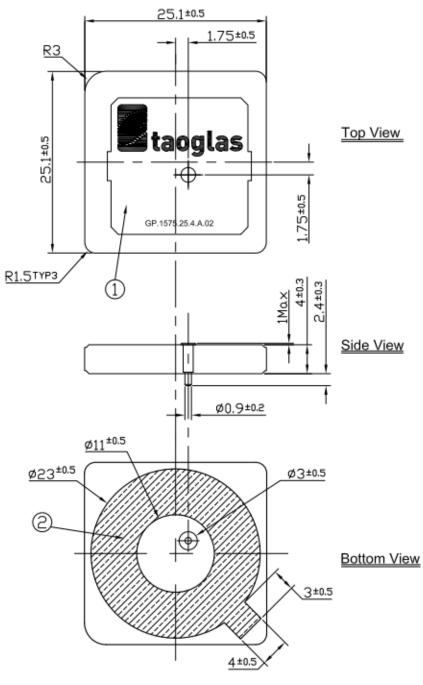
3. Electrical Specification

3.1 Smith Chart





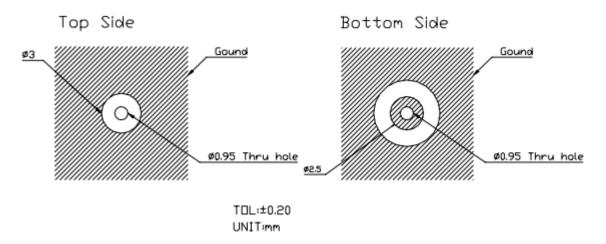
4. 2D Mechanical Drawing



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

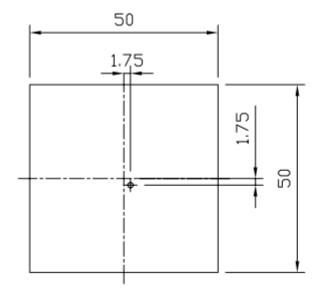


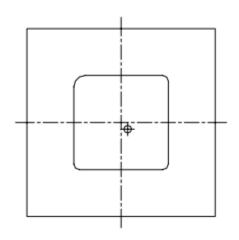
5.1 Layout Dimension



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

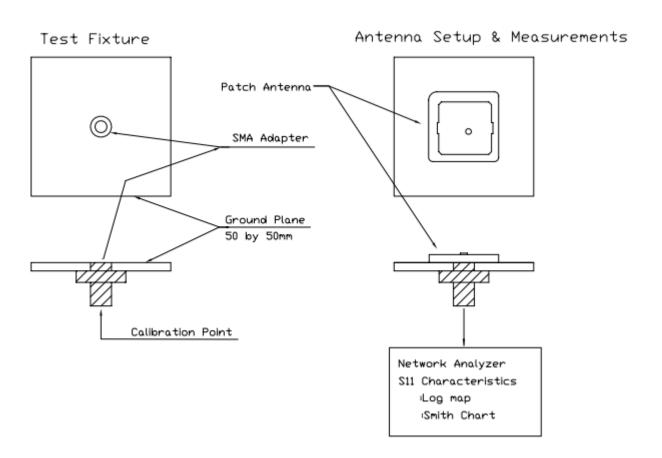
5. Test Jig and Dimension







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

