

SPECIFICATION

Part No. : **GP.1575.18.4.A.02**

Product Name : Miniature GPS Patch Antenna

Features : 18mm*18mm*4mm

ROHS Compliant

:





1. Introduction

This ceramic GPS patch antenna is based on smart **XtremeGain** $^{\text{TM}}$ technology. It is mounted via pin and double-sided adhesive and has been selected as optimal solution for the $50 \times 50 \text{mm}$ ground plane.

2. Specification Table

Original Patch Specification tested on 50*50mm ground plane

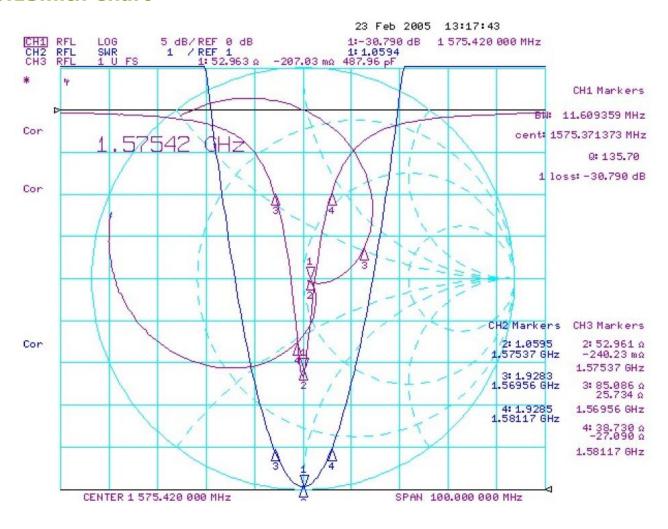
No	Parameter	Specification	
1	Center Frequency	1575MHz +/- 3MHz**	
2	Impedance	50Ω	
3	Bandwidth	8MHz min Return Loss <-10dB	
4	VSWR	1.5 max	
5	Gain toward Zenith	+2.5 dBic typ.	
6	Gain at 10°Elevation	-4.5 dBic typ.	
7	Axial Ratio	3dB Max.	Center Frequency
8	Polarization	Right Hand Circular Polarization	
	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



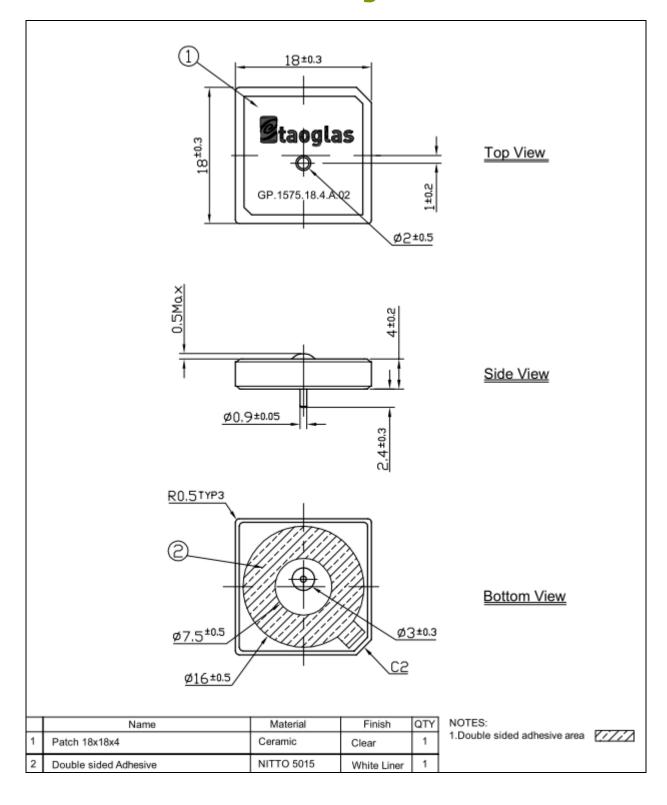
3. Electrical Specification

3.1Smith Chart



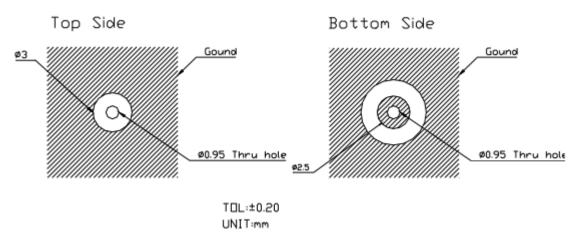


4. Dimensions and Drawing



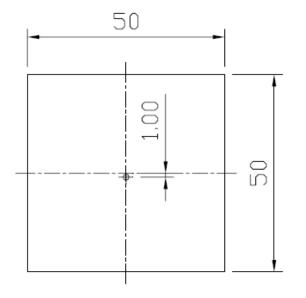


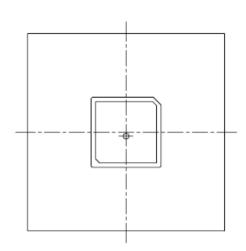
4.1 Layout Dimension



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

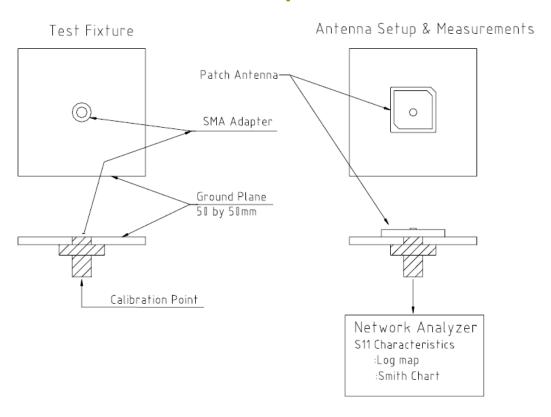
5. Test Jig and Dimensions







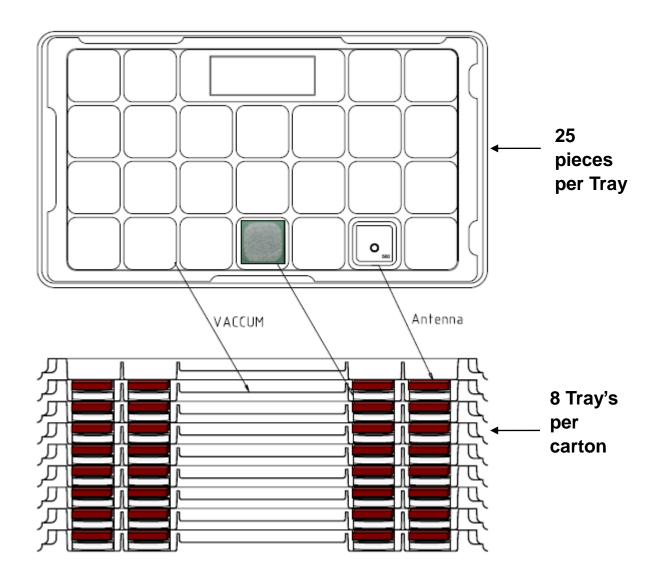
5.1 Test Fixture Antenna Setup & Measurements





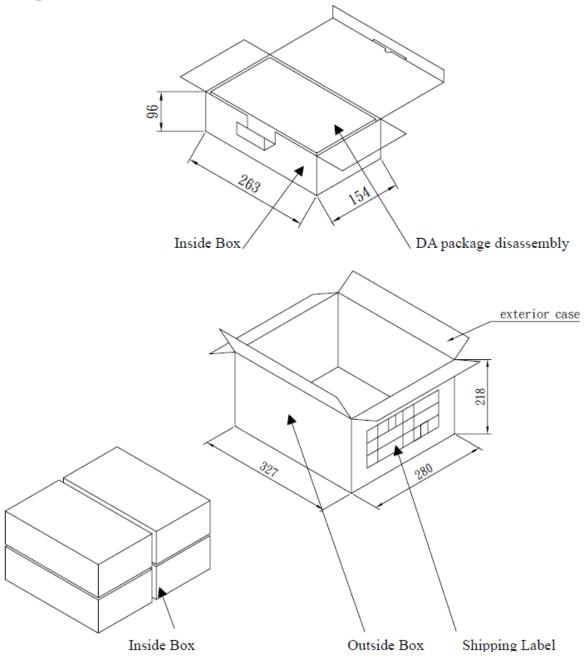
6. Packaging

- Per Tray: 25 pieces
- Per Carton(Inside Box) 8 Trays = 200 pieces
- Outer Carton (Outside Box) 4 Cartons = 800 pieces





Packing



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Taoglas:

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