

SPECIFICATION

PART NO. **GP.1575.15.4.B.02**

SPEC NO. **GP.15A**

PRODUCT NAME 15mm*15mm*4mm

1575mhz GPS Patch Antenna

RoHS Compliant







1. Introduction

This miniaturized ceramic GPS patch antenna is based on smart $\textbf{XtremeGain}^{\intercal}$ technology. It is mounted via pin and double-sided adhesive and has been selected as optimal solution for the customer device environment.

2. Specification Table

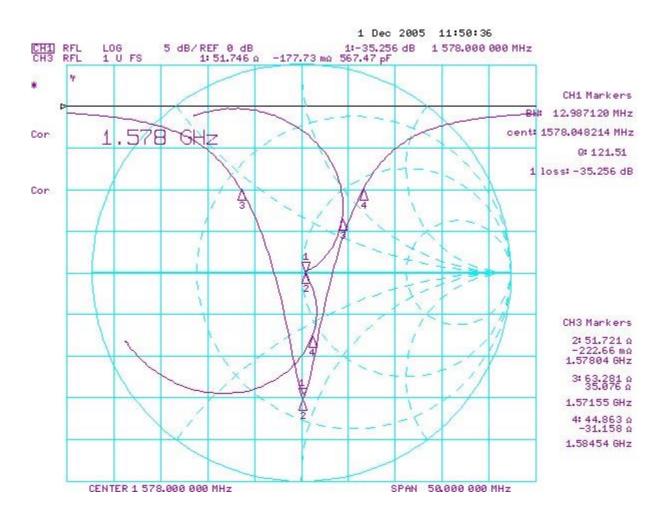
No	Parameter	Specification	Notes
1	Range of Receiving Frequency	1575.42 MHz ± 1.023 MHz	
2	Center Frequency	1578 ± 2MHz	With 66x52.5mm ground plane
3	Bandwidth	6 MHz min	Return Loss <-10 dB
4	VSWR	1.5 max	
5	Gain at Zenith	1.0 dBic typ.	Center Frequency
6	Gain at 10°elevation		
7	Axial Ratio	3 dB max	
8	Polarization	RHCP	
9	Impedance	50 Ohms	
	Frequency Temperature		
10	Coefficient (Tf)	0 ± 20ppm / °C	-40°C to +85°C
11	Operating Temperature	-40°C to +85°C	

Table 1



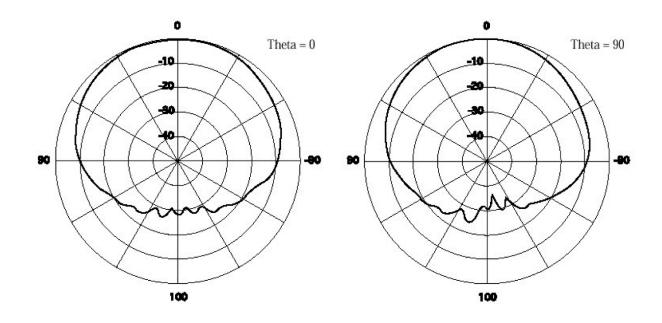
3. Electrical Specification

3.1 Smith Chart



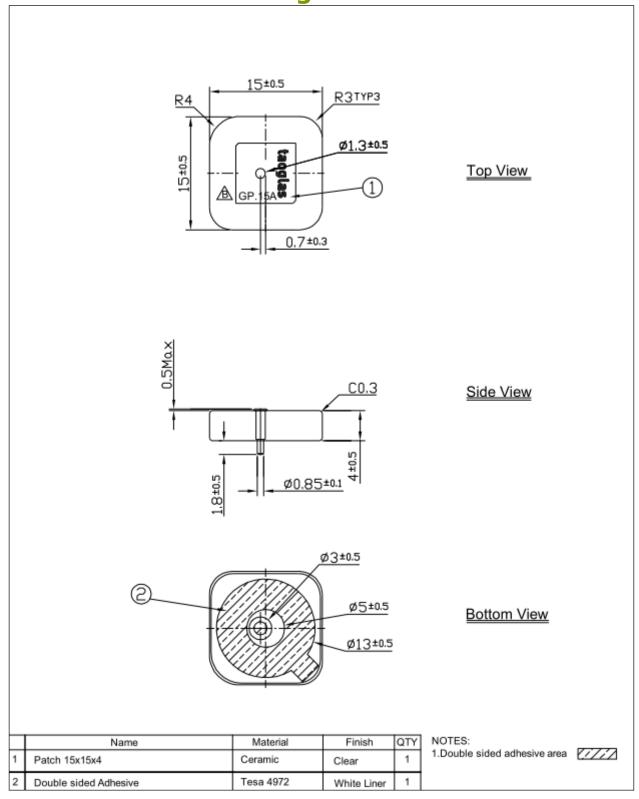


4. Antenna Gain Chart (Spin Dipole Method)



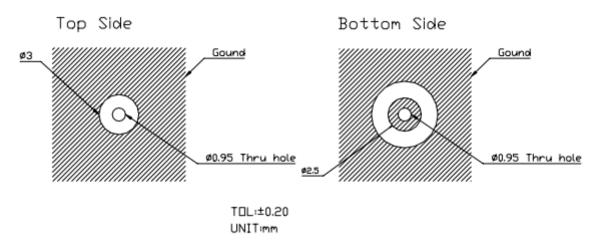


5. Mechanical Drawing



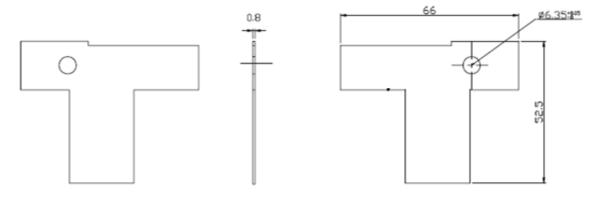


5.1 Layout Dimension



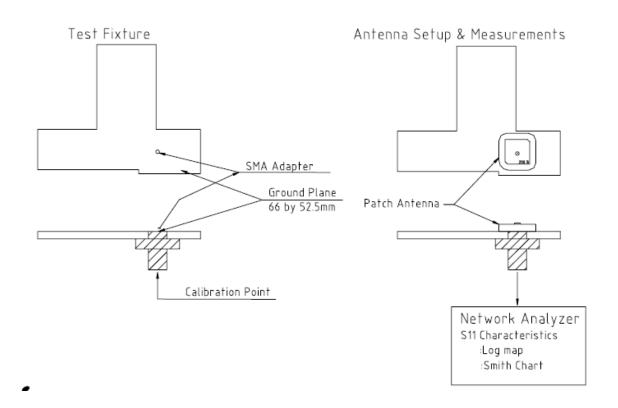
*Note Layout Dimensions may be affected by the thickness of the PCB

6. Test Jig and Dimensions





6.1 Test Fixture Antenna Setup & Measurements

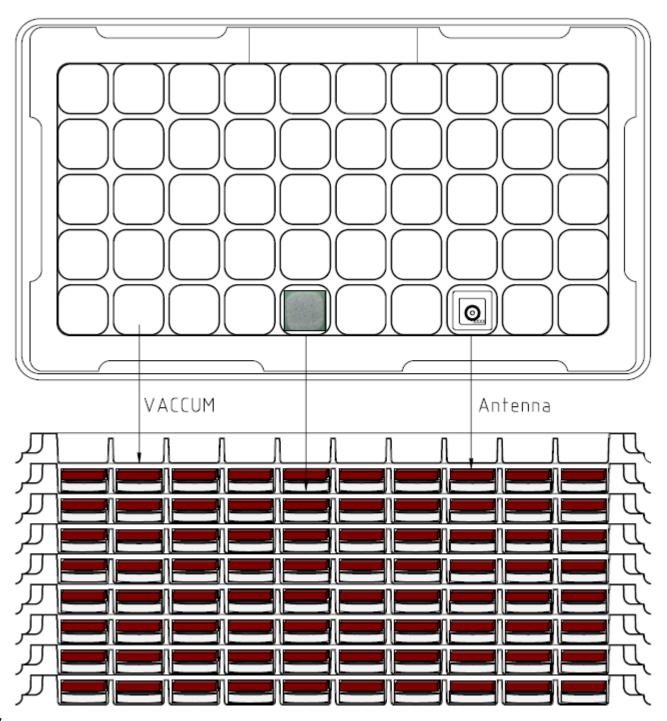


SPE-12-8-094/A/SS



7. Packaging

Pieces per Inner Carton: 400



V



Packing

