

SPECIFICATION

Part No. : **GP.1575.18.2.A.02**

Product Name : 2mm thick GPS Patch Antenna, 1575MHz

Features : 18mm*18mm*2mm

Halogen Free

ROHS Compliant

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I. 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 selected as optimal solution for the customer device environment.

II. Specification Table

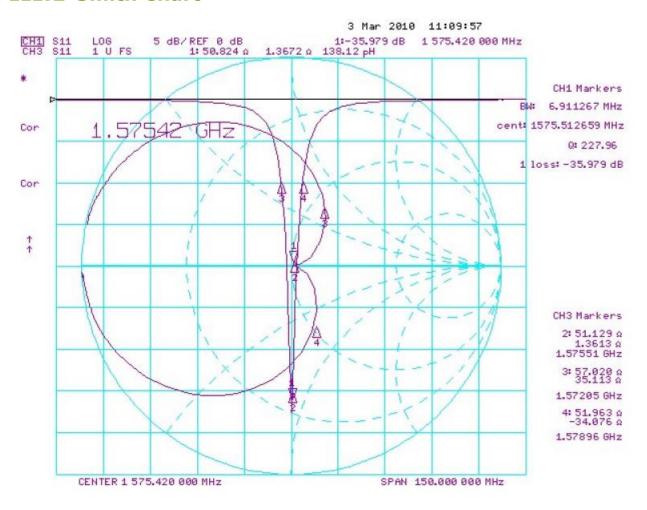
Original Patch Specification tested on 50*50mm ground plane

No	Parameter	Specification	
1	Center Frequency	1575MHz +/- 3MHz	
2	Impedance	50Ω	
3	Bandwidth	5 MHz min Return Loss <-10dB	
4	VSWR	1.5 max	
5	Gain toward Zenith	-0.5 dBic typ.	Center Frequency
6	Gain at 10°Elevation		
7	Axial Ratio	3dB Max.	
8	Polarization	Right Hand Circular Polarization	
	Frequency Temperature		
9	Coefficient (Tf)	0 ± 20ppm/°C	
10	Operating Temperature	-40°C to +85°C	



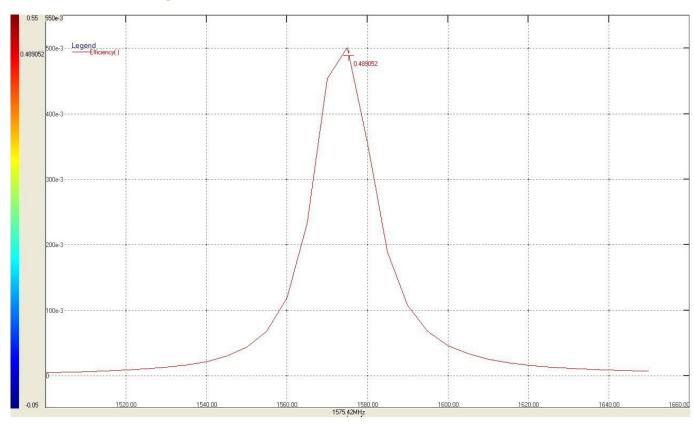
III. Electrical Specification

III.1 Smith Chart





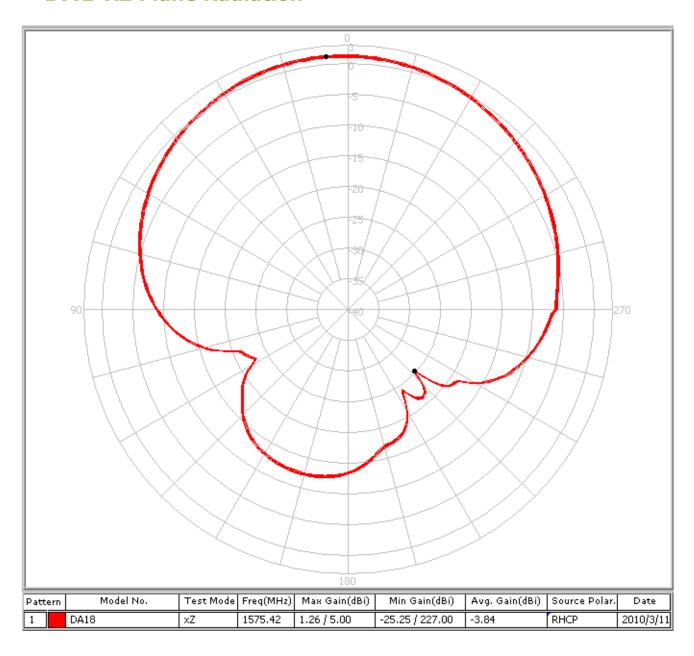
III.2Efficiency





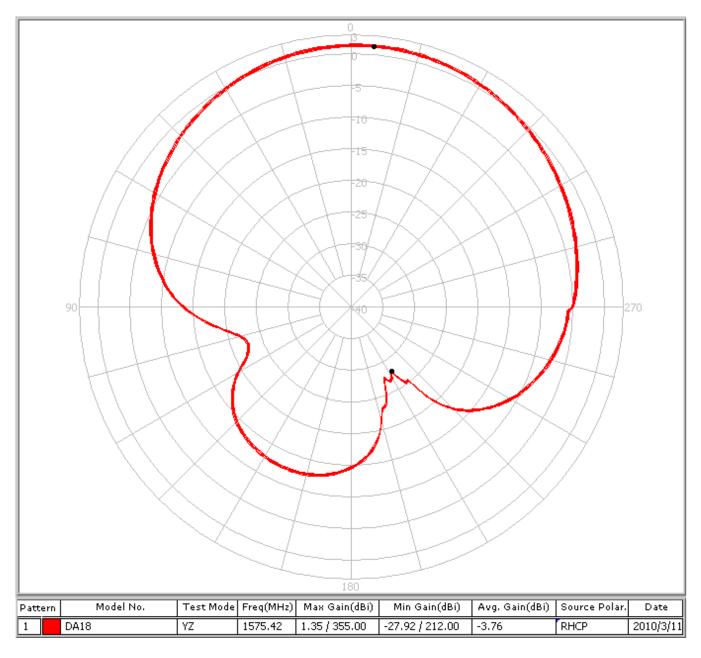
IV. 2D Radiation Patterns

IV.1 XZ Plane Radiation



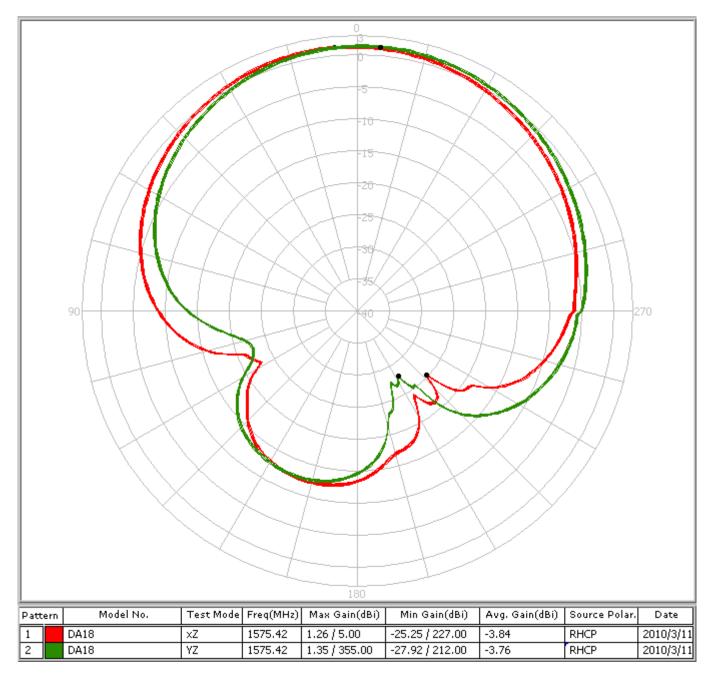


IV.2 YZ Plane Radiation



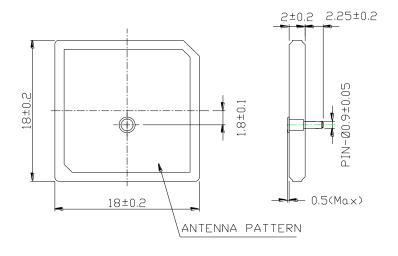


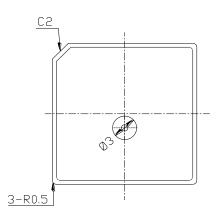
IV.3 XZ Plane Radiation





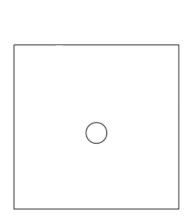
V. Mechanical Drawing

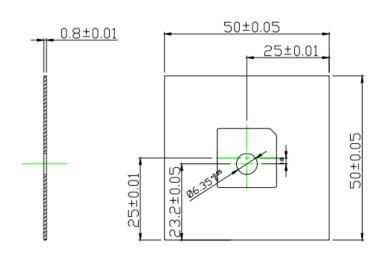






VI. Test Jig and Dimension





BOTTOM-SIDE

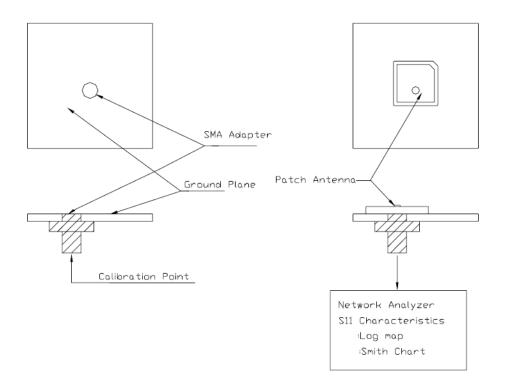
TOP-SIDE



VI.1 Test Fixture Antenna Setup and Measurements

Test Fixture

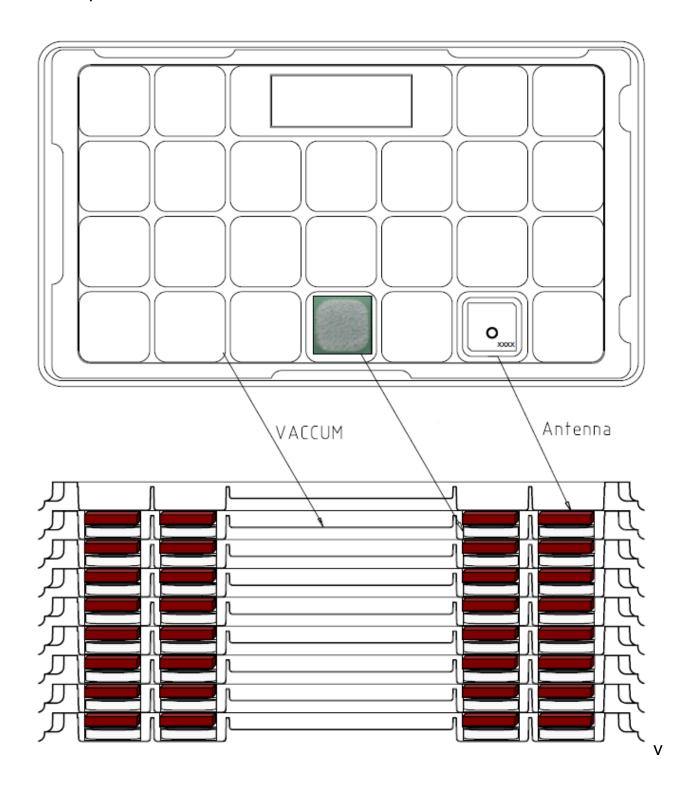
Antenna Setup & Measurements





VII. Packaging

Pieces per Inner Carton: 200





Packing

