

SPECIFICATION

Part No. : **GP.1575.12.4.A.02**

Product Name : **4mm thick GPS Patch Antenna, 1575MHz**

Features : 12mm*12mm*4mm
Halogen Free
RoHS Compliant

:



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 selected as optimal solution for the customer device environment.

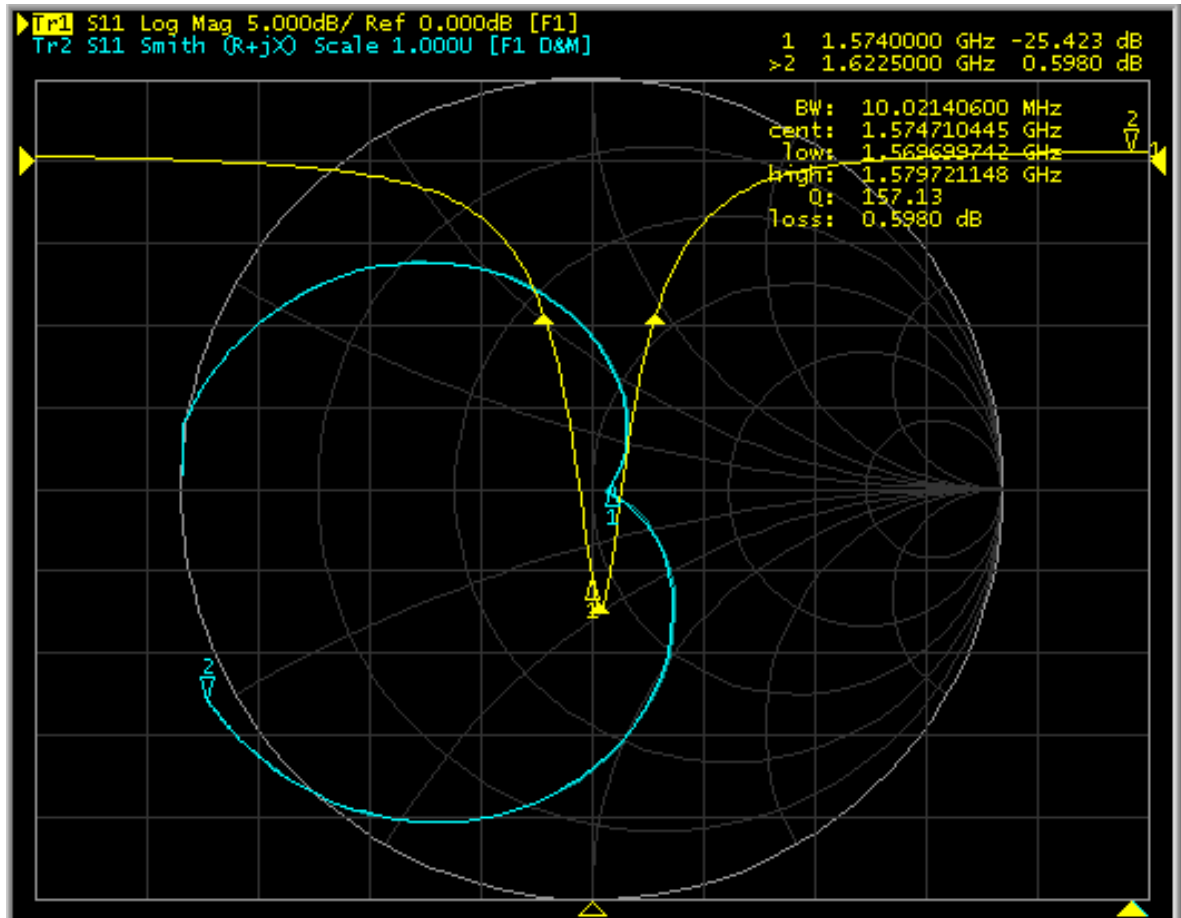
2. Specification Table

Original Patch Specification tested on 50*50mm ground plane

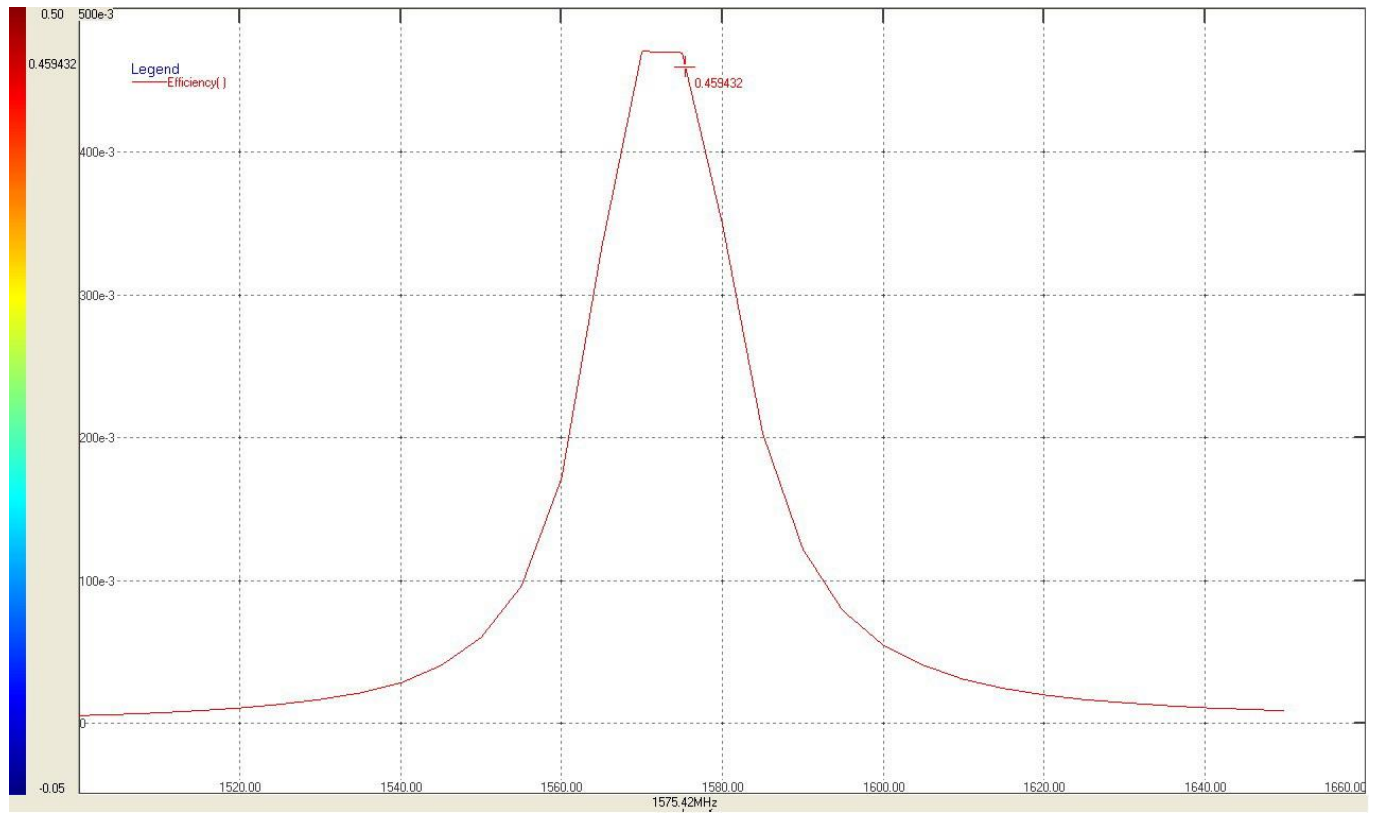
No	Parameter	Specification
1	Center Frequency	1575MHz +/- 3MHz
2	Impedance	50Ω
3	Bandwidth	8MHz min Return Loss <-10dB
4	VSWR	1.5 max
5	Gain toward Zenith	-0.5 dBic typ.
6	Gain at 10°Elevation	-----
7	Axial Ratio	4dB Max.
8	Polarization	Right Hand Circular Polarization
9	Frequency Temperature Coefficient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

3. Electrical Specifications

3.1 Smith Chart

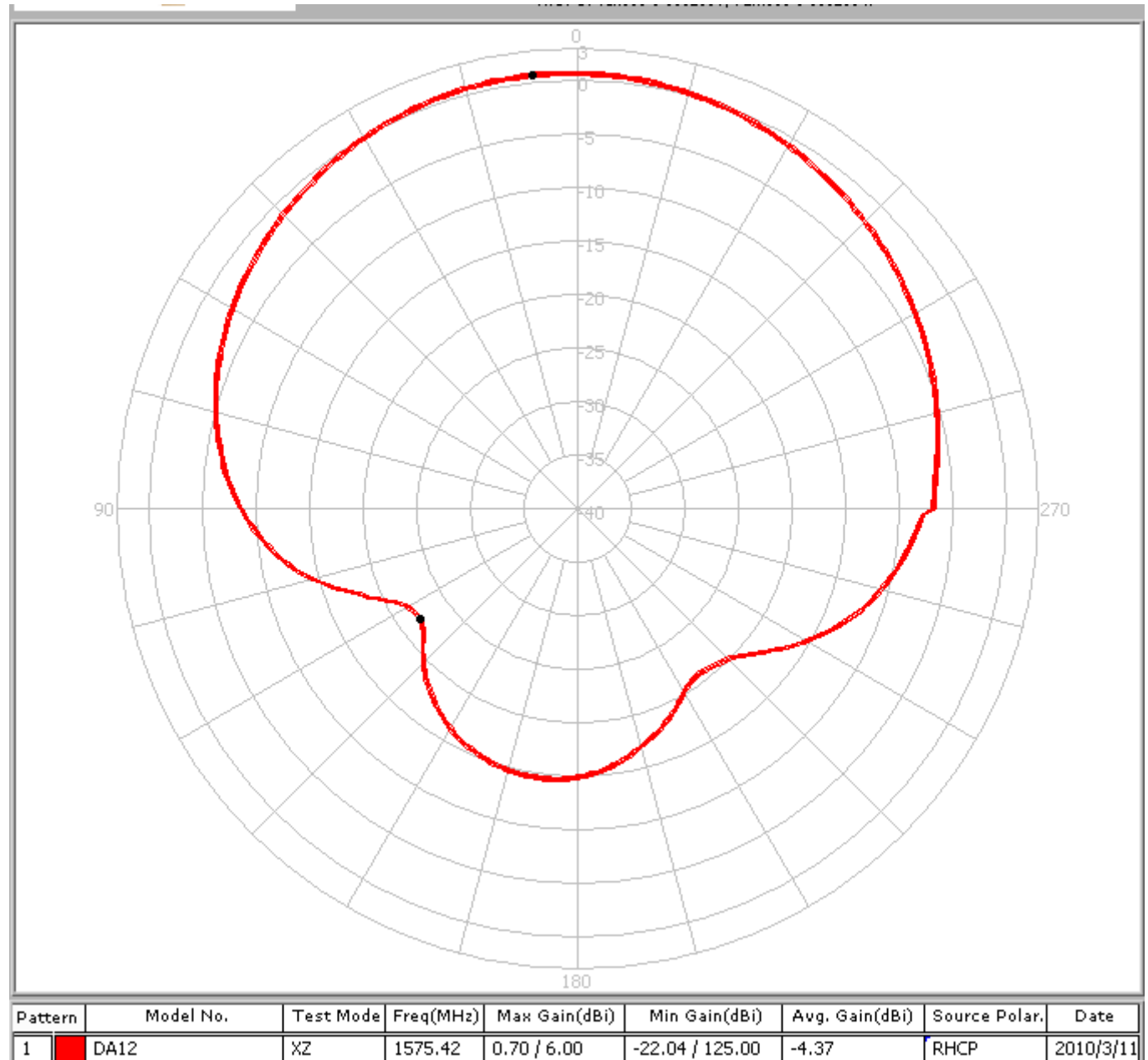


3.2 Efficiency

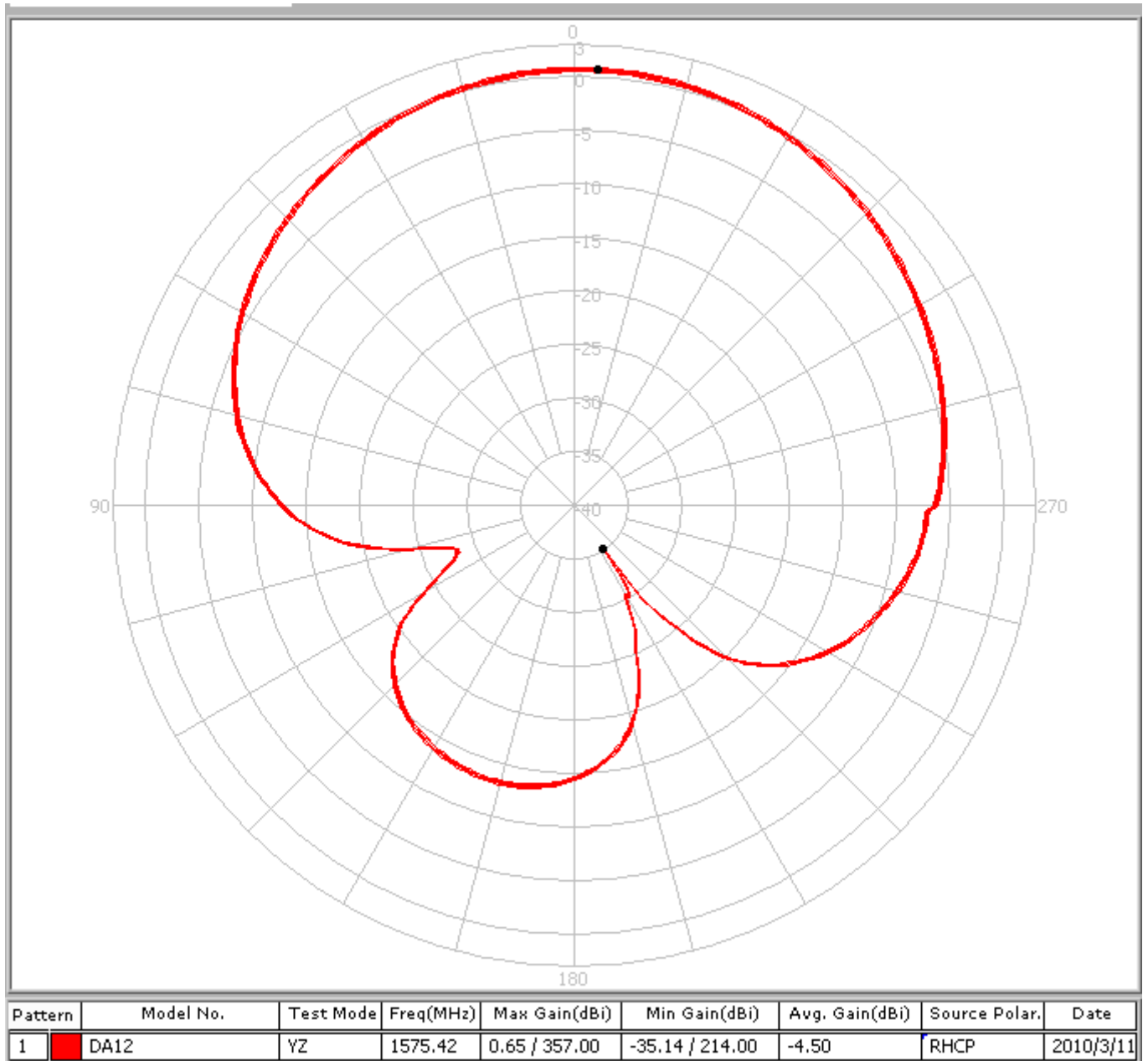


4. 2D Radiation Patterns

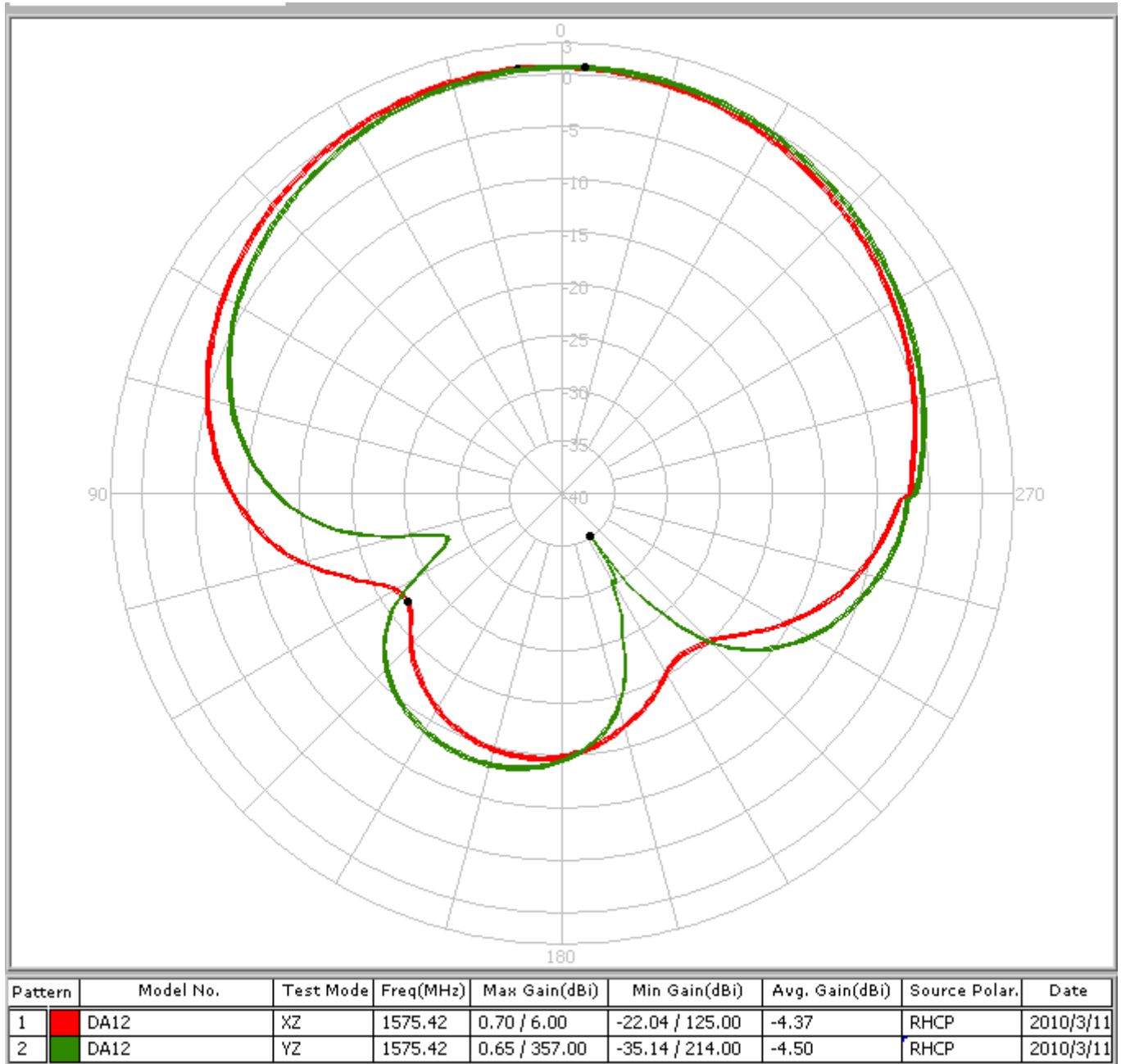
4.1 XZ Plane Radiation



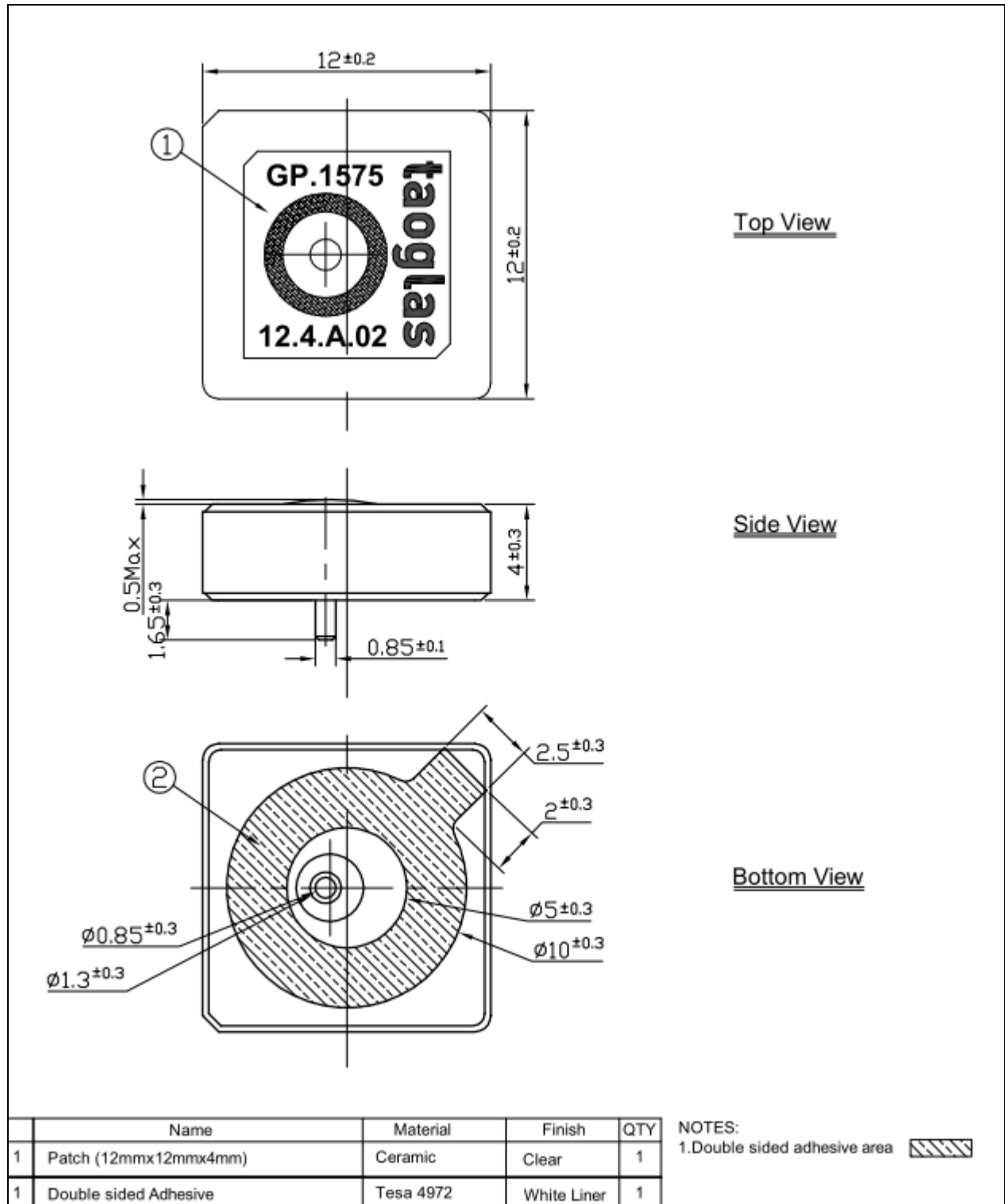
4.2 YZ Plane Radiation



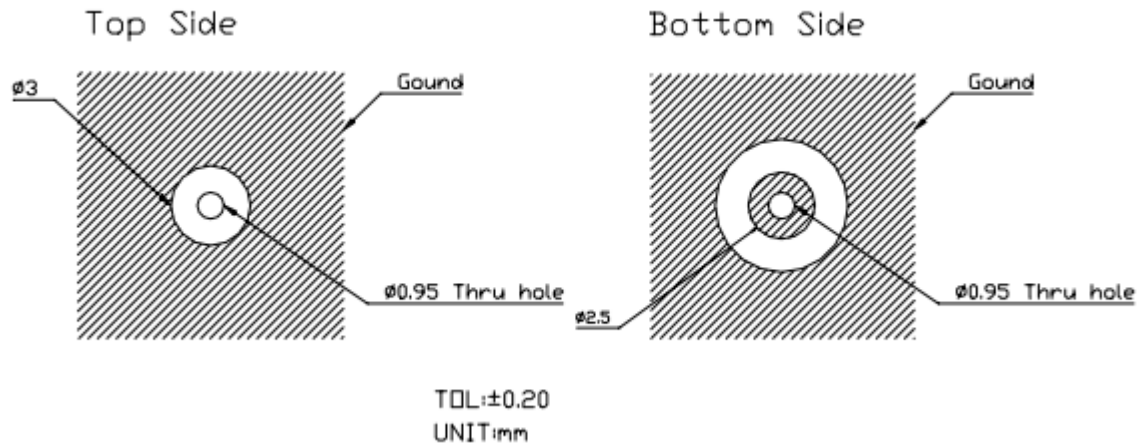
4.3 XY Plane Radiation



5. Mechanical Drawing

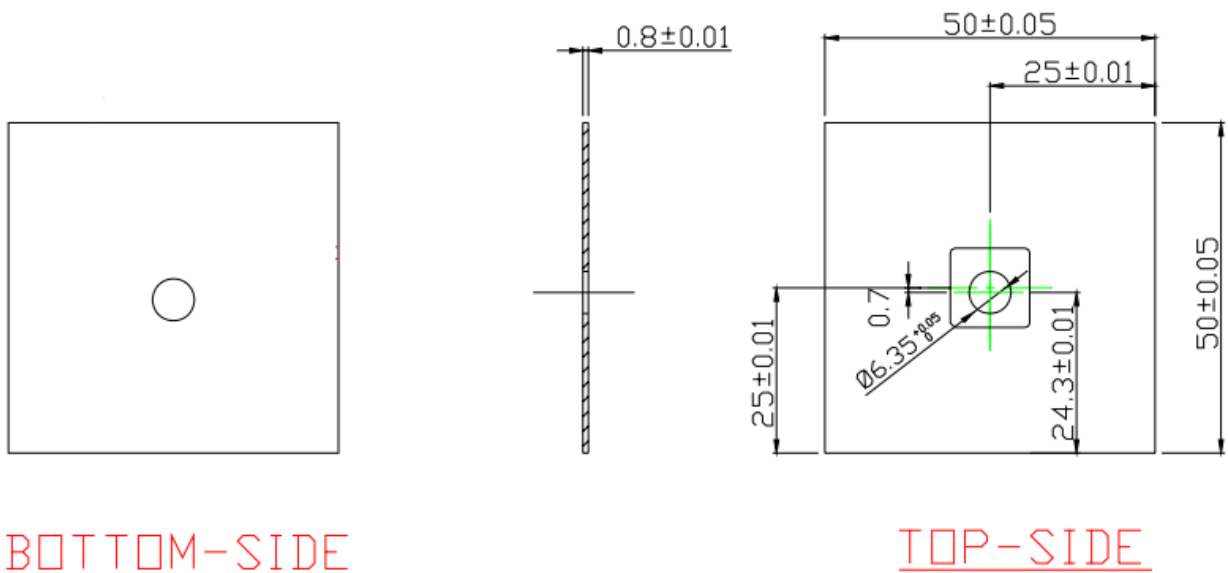


5.1 Layout Dimension

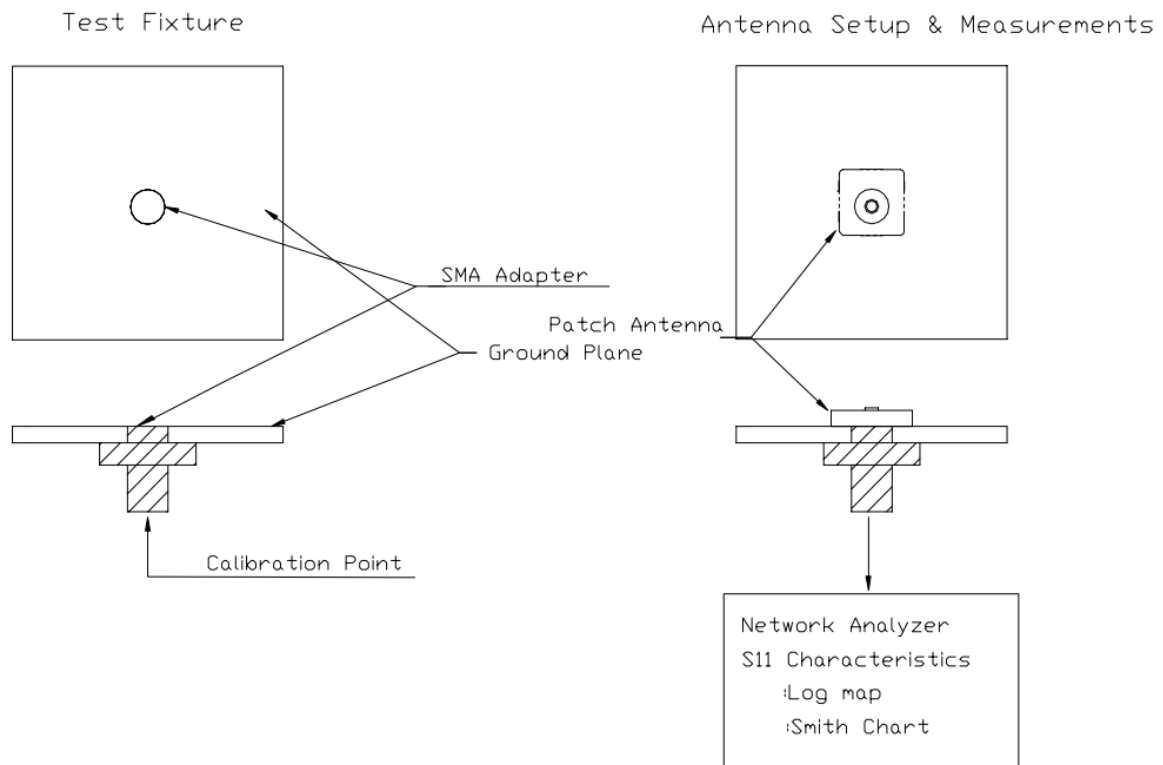


*Note Layout Dimensions may be affected by the thickness of the PCB

6. Test Jig and Dimension

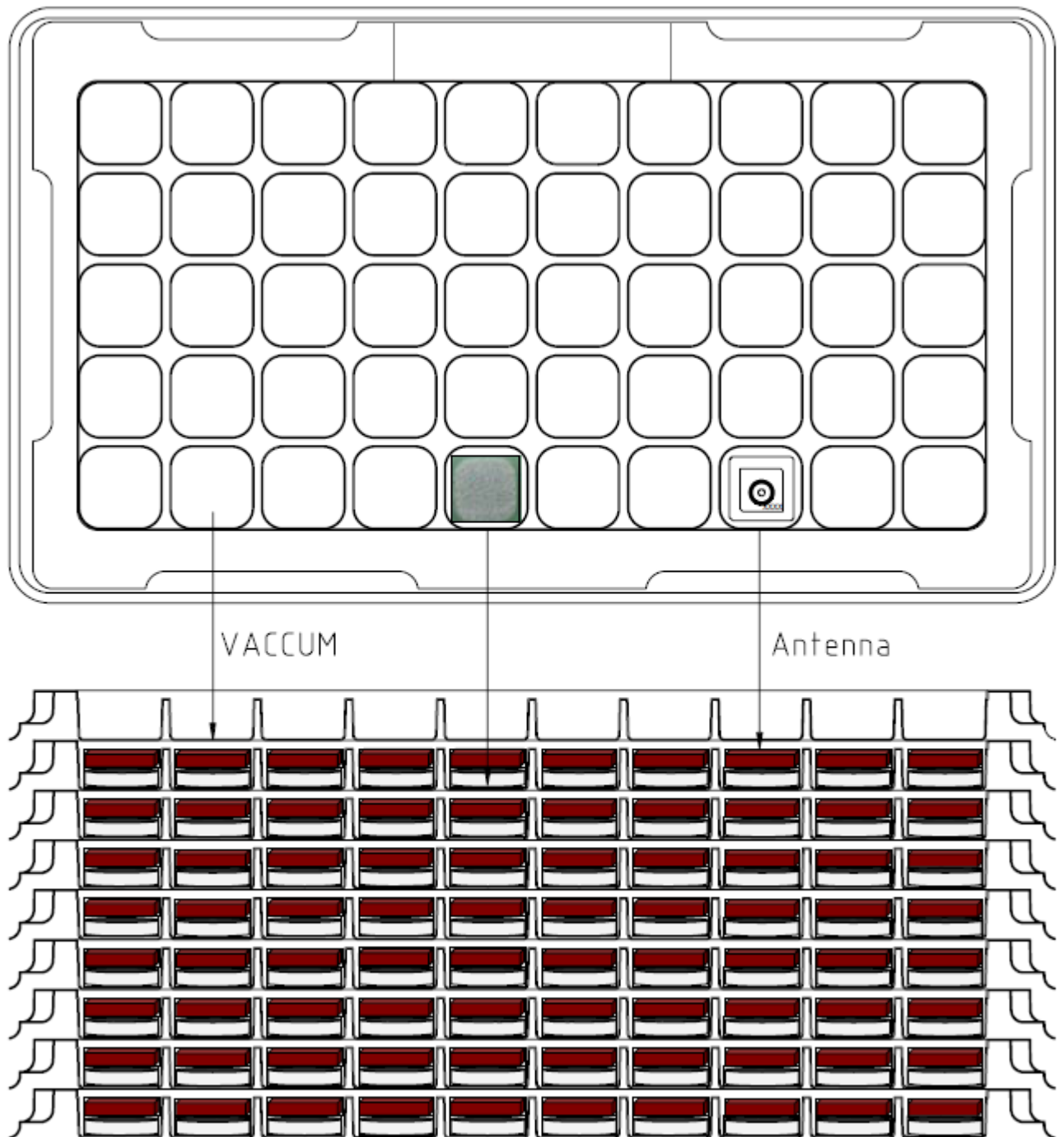


6.1 Test Fixture Antenna Setup and Measurements



7. Packaging

Pieces per Inner Carton: 400



V

Packing

