

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

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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.

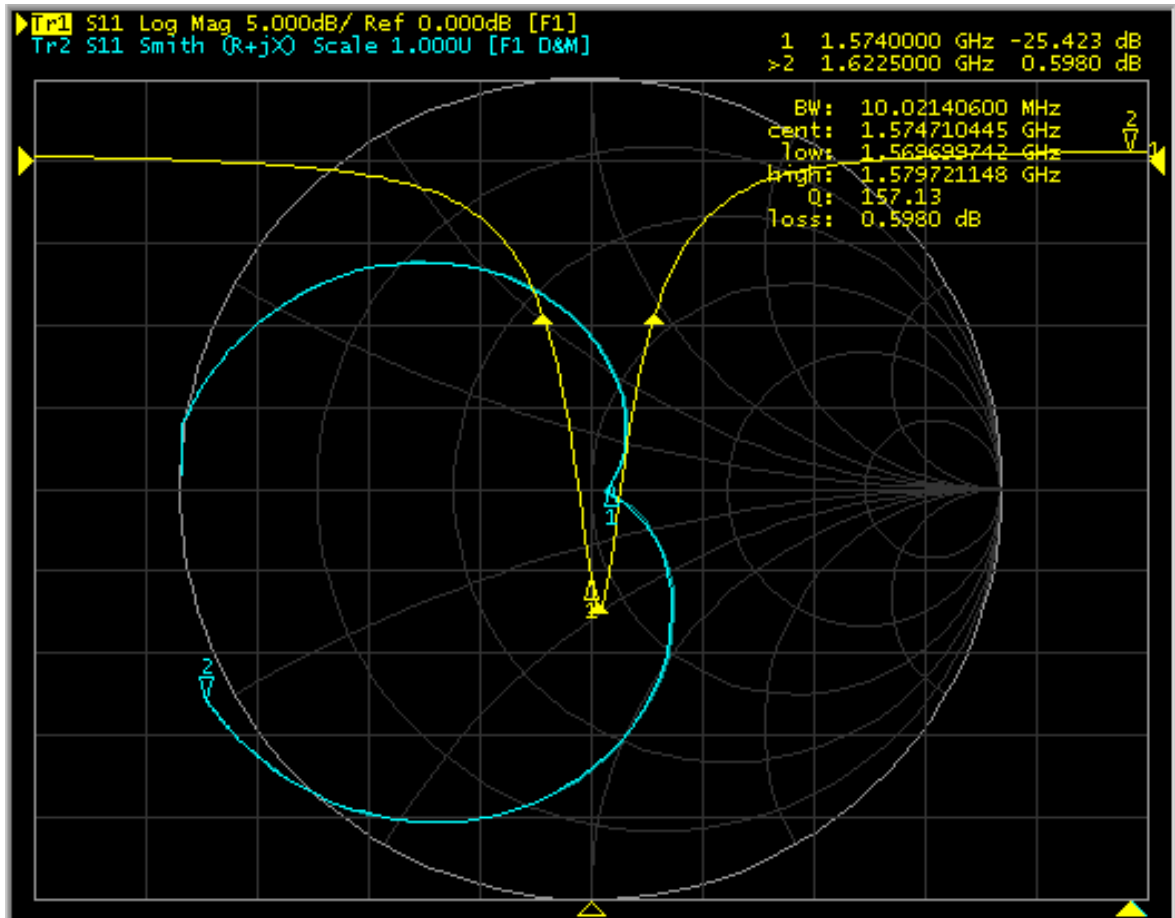
II. Specification Table

Original Patch Specification tested on 50*50mm ground plane

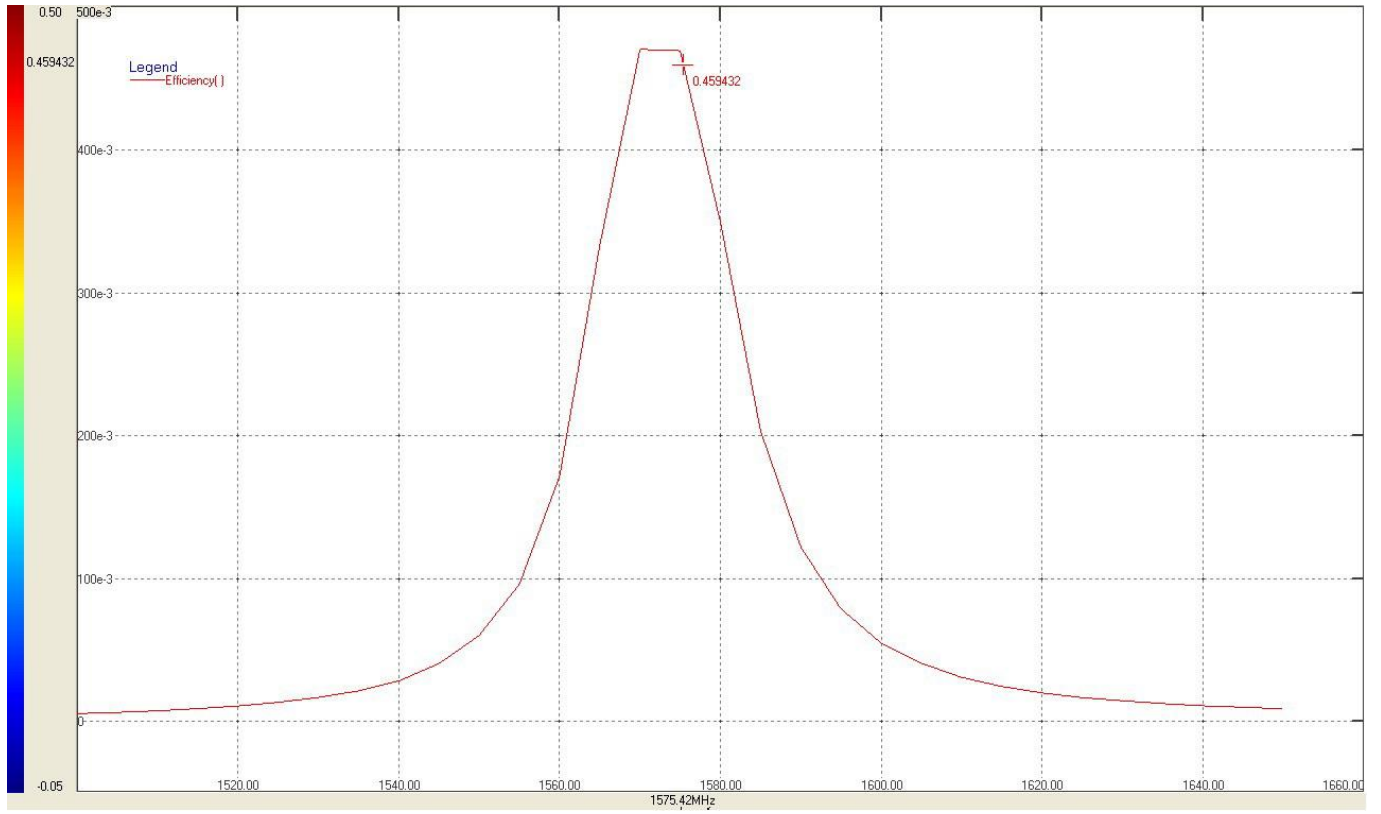
No	Parameter	Specification
1	Center Frequency	1575MHz +/- 3MHz
2	Impedance	50Ω
3	Bandwidth	8MHz min Return Loss <-10dB
4	VSWR	1.5 max
5	Gain toward Zenith	-0.5 dBic typ.
6	Gain at 10°Elevation	-----
7	Axial Ratio	4dB Max.
8	Polarization	Right Hand Circular Polarization
9	Frequency Temperature Coefficient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

III. Electrical Specifications

III.1 Smith Chart

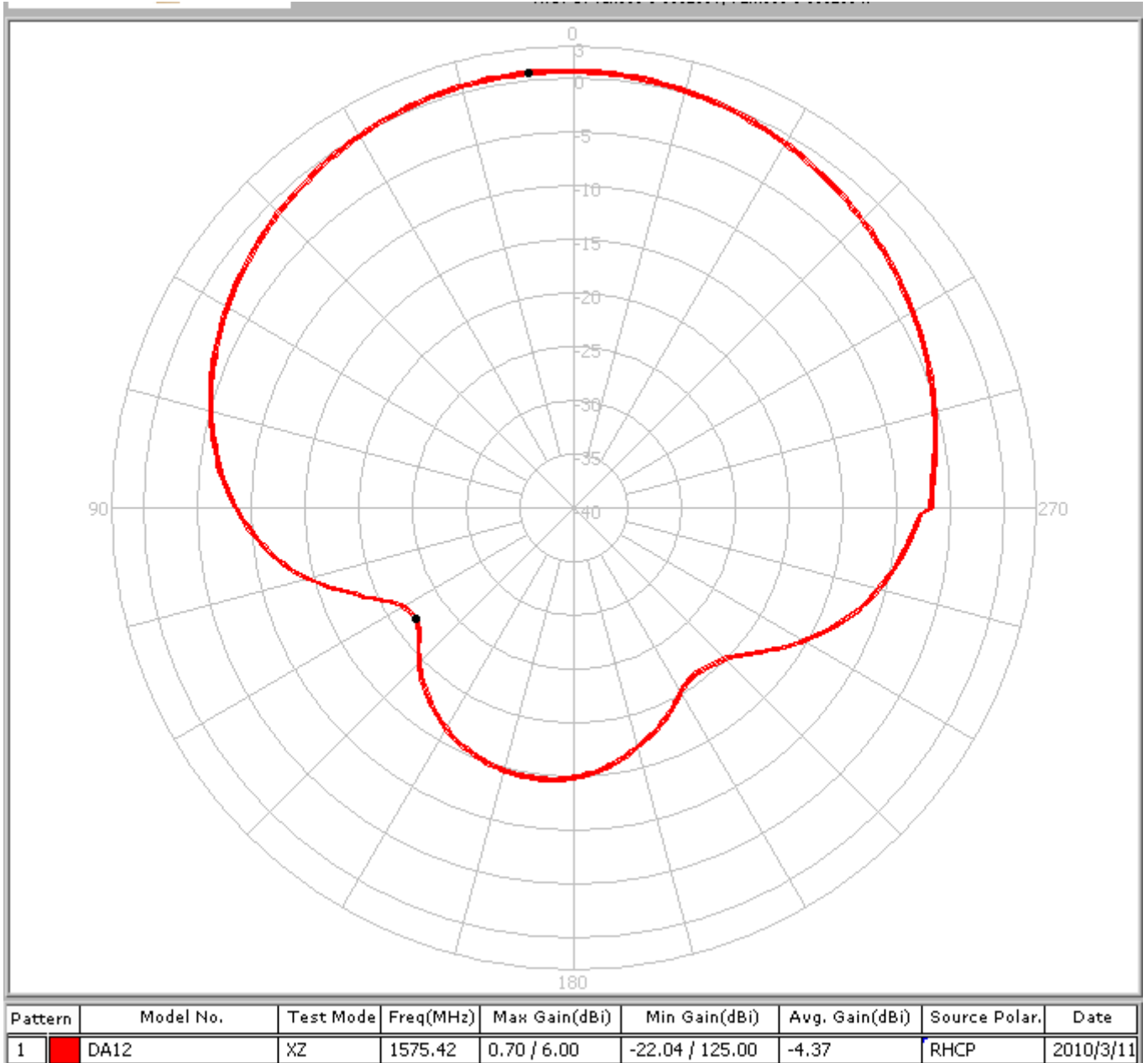


III.2 Efficiency

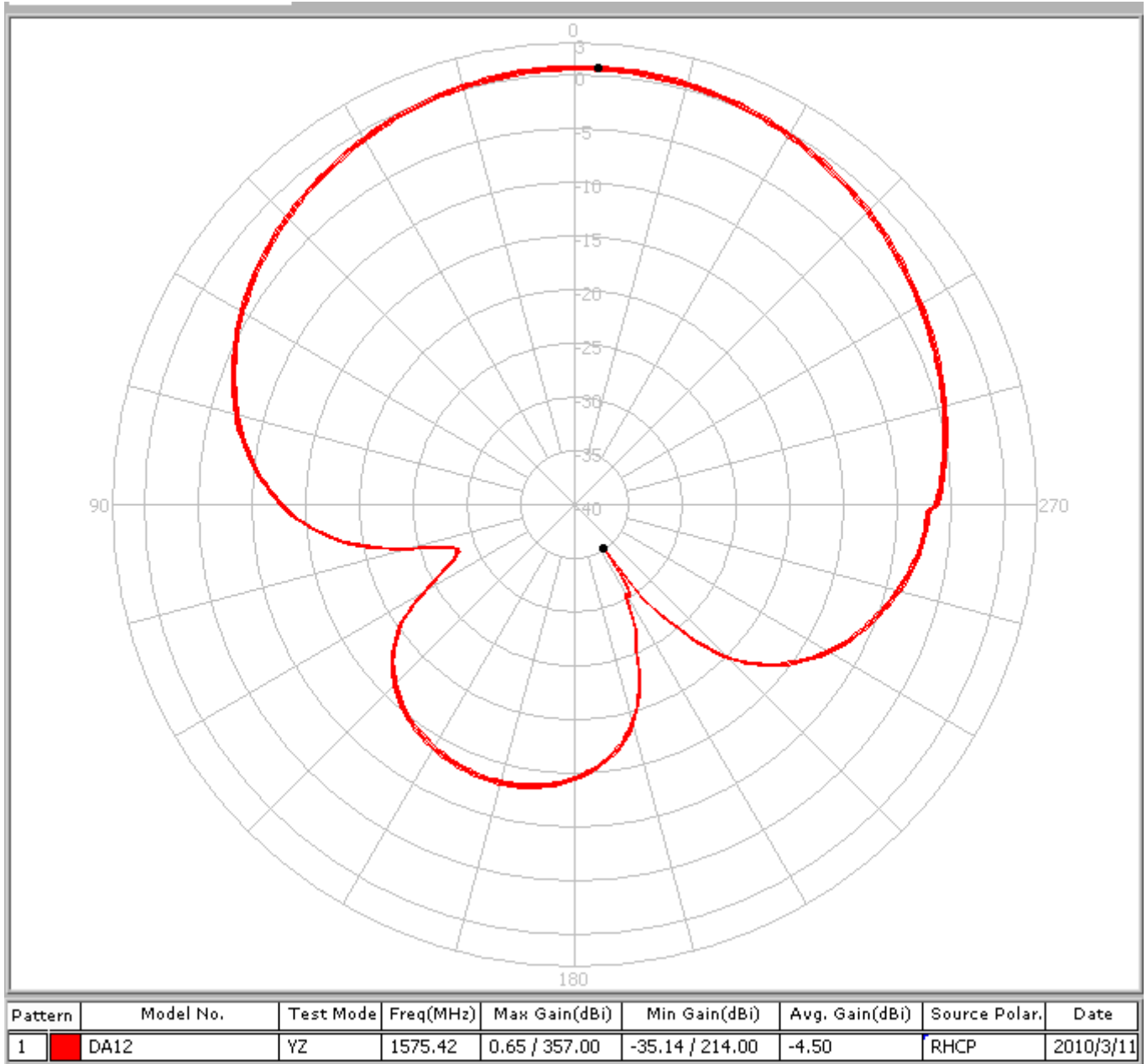


IV. 2D Radiation Patterns

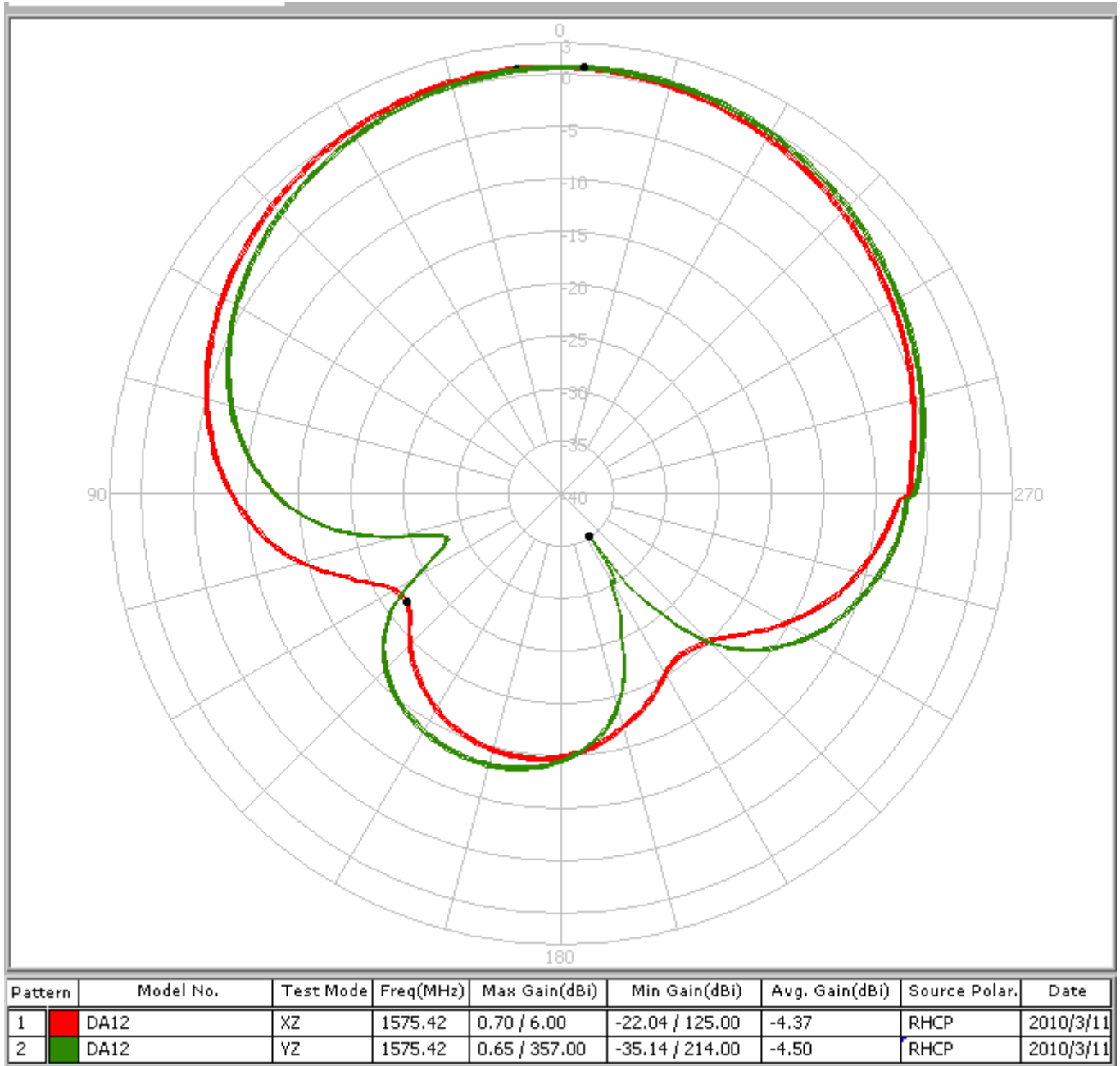
IV.1 XZ Plane Radiation



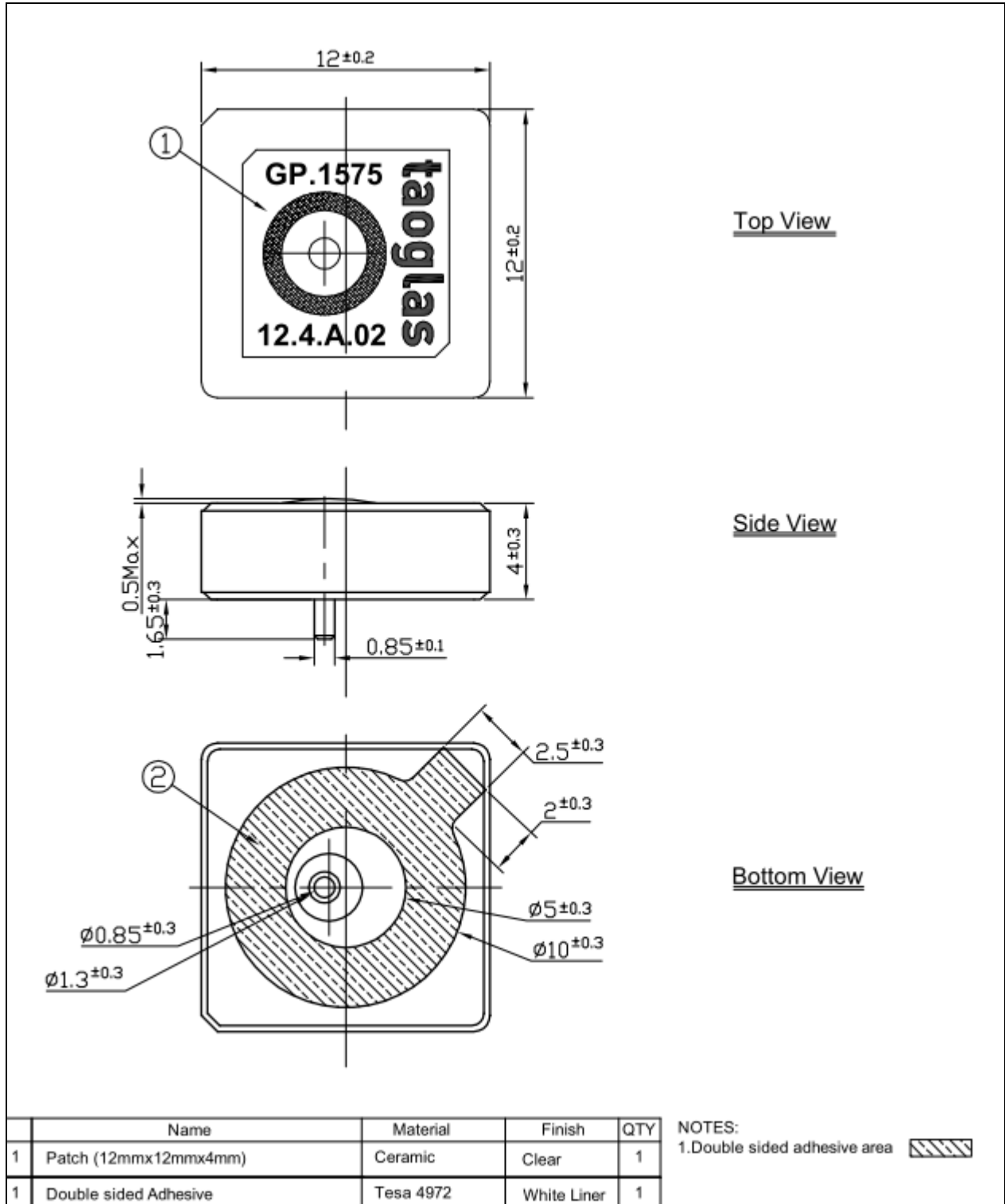
IV.2 YZ Plane Radiation



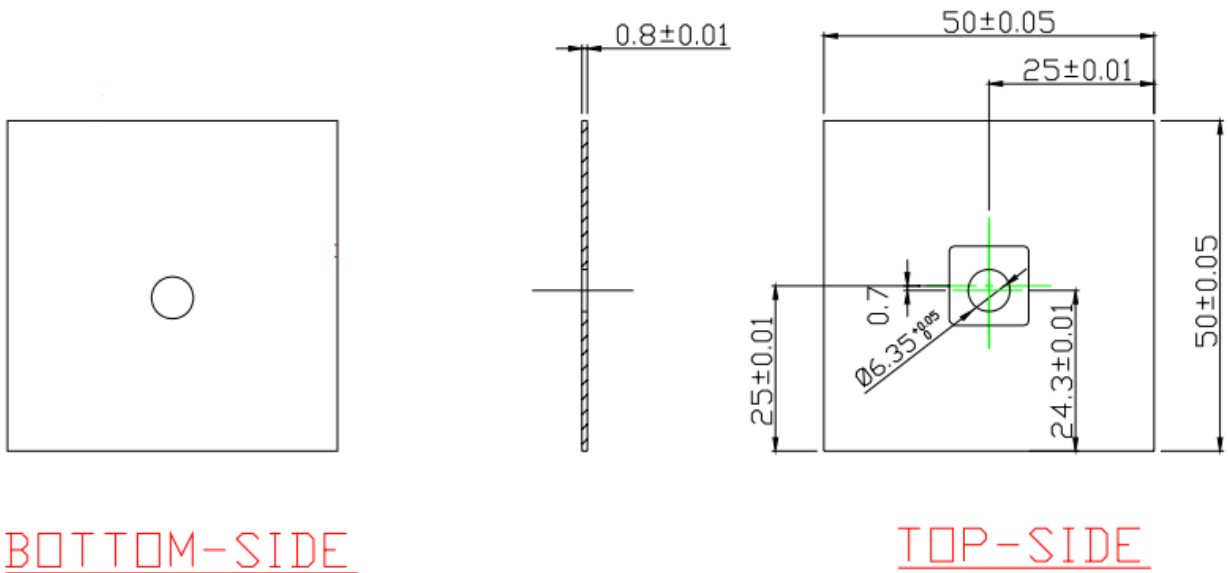
IV.3 XY Plane Radiation



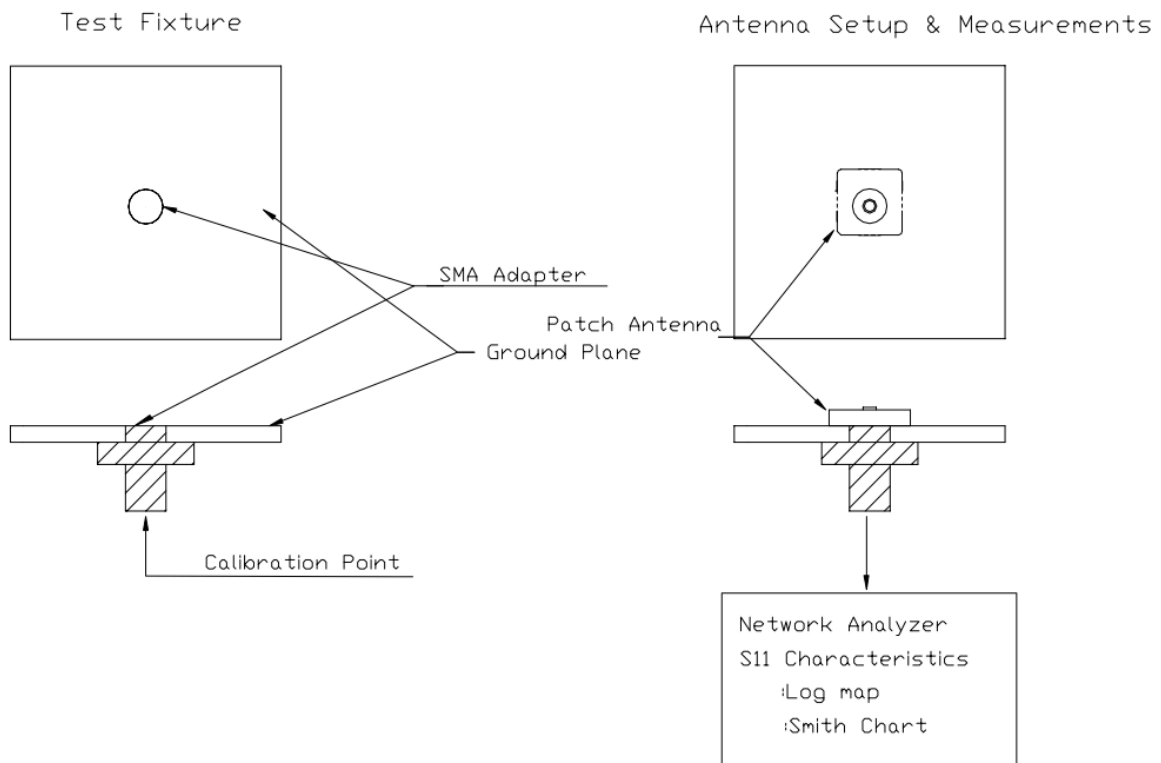
V. Mechanical Drawing



VI. Test Jig and Dimension

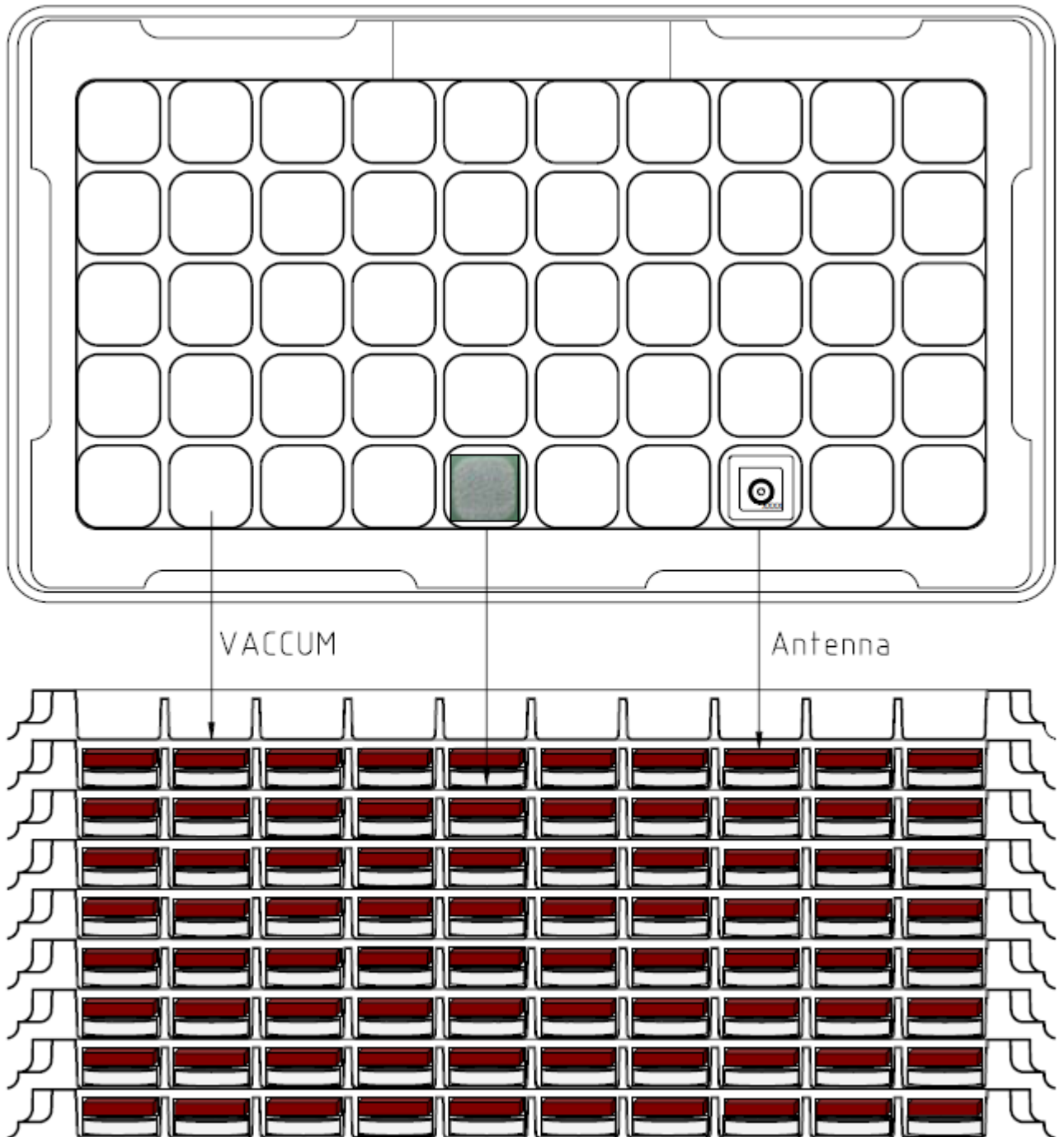


VI.1 Test Fixture Antenna Setup and Measurements



VII. Packaging

Pieces per Inner Carton: 400



V

Packing

