

SPECIFICATION

Part No.	:	CGGP.25.4.A.02
Specification No.	:	CGGP.25.A
Product Name	:	4mm thick GPS/GLONASS Patch Antenna, 1575-1610MHz
Feature	:	25 x 25 x 4mm RoHS compliant



I. Introduction

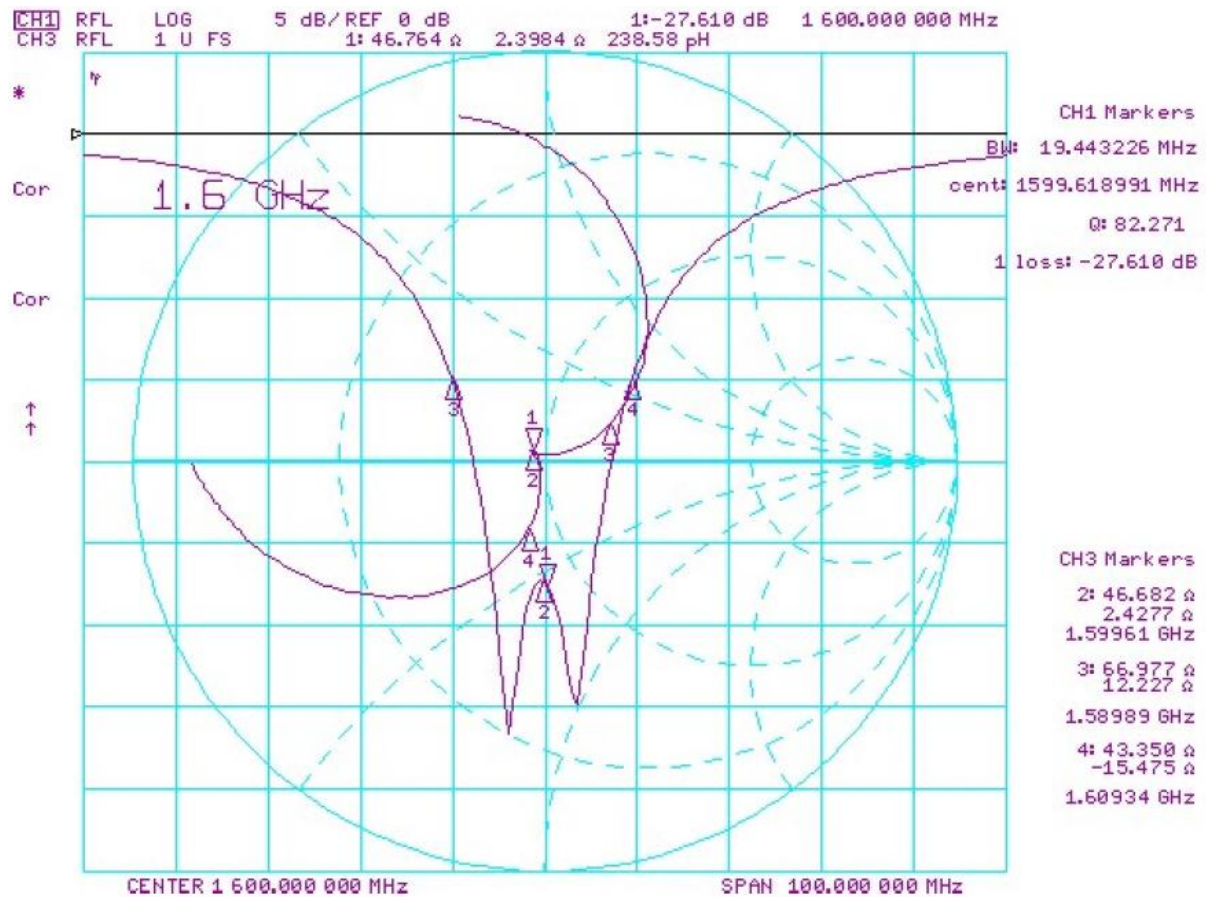
This miniaturized ceramic GPS patch antenna is based on smart *XtremeGain*™ technology. It is mounted via pin and double-sided adhesive and has been selected as optimal solution for the customer device environment.

II. Specification

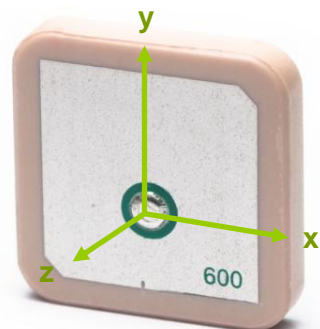
ELECTRICAL	
Center Frequency	1600MHz \pm 3MHz
Bandwidth	15 MHz min Return Loss <-10dB
VSWR	1.5 max
Gain at Zenith	+5.0 dBic typ.
Gain at 10° Elevation	-1.0 dBic typ.
Axial ratio	3dB Max
Polarization	RHCP
Impedance	50 ohms
MECHANICAL	
Ceramic Dimension	25.1 x 25.1 x 4mm
Pin Diameter	0.9mm
Pin Length	1.8mm
ENVIRONMENTAL	
Operation Temperature	-40°C to 105°C
Humidity	Non-condensing 65°C 95% RH

* Antenna properties were measurement with the antenna mounted on 70mm² Ground Plane

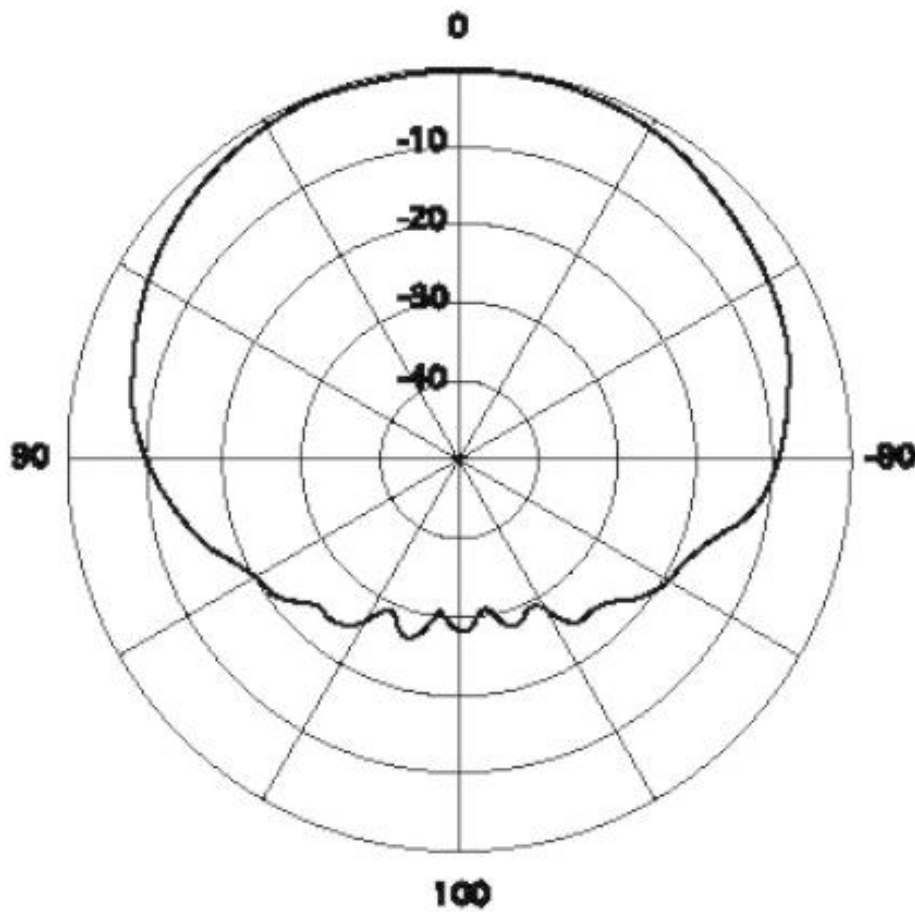
III. Antenna S11 Properties



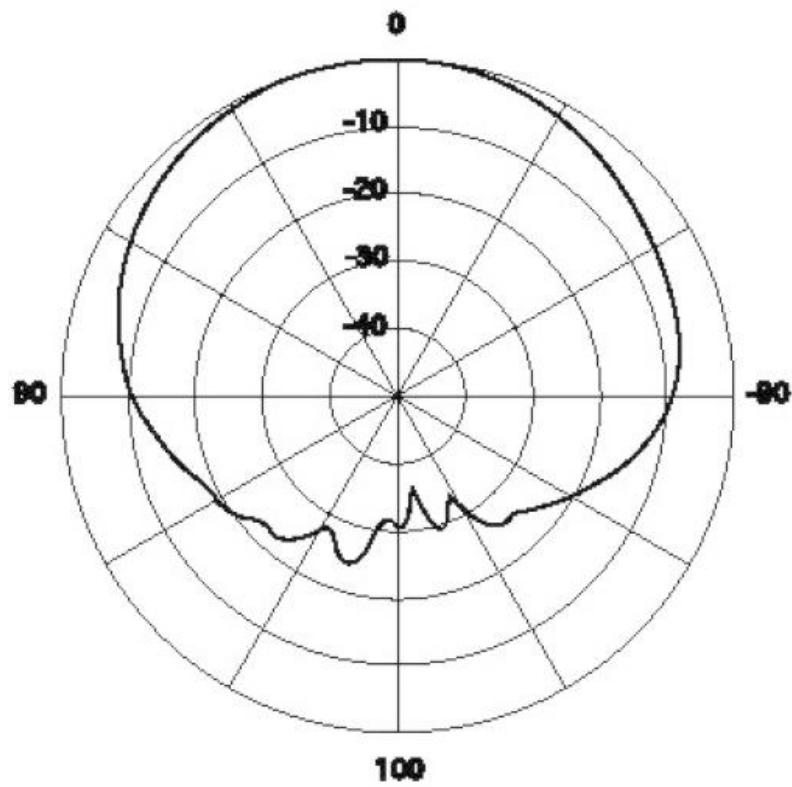
IV. Antenna Radiation Properties



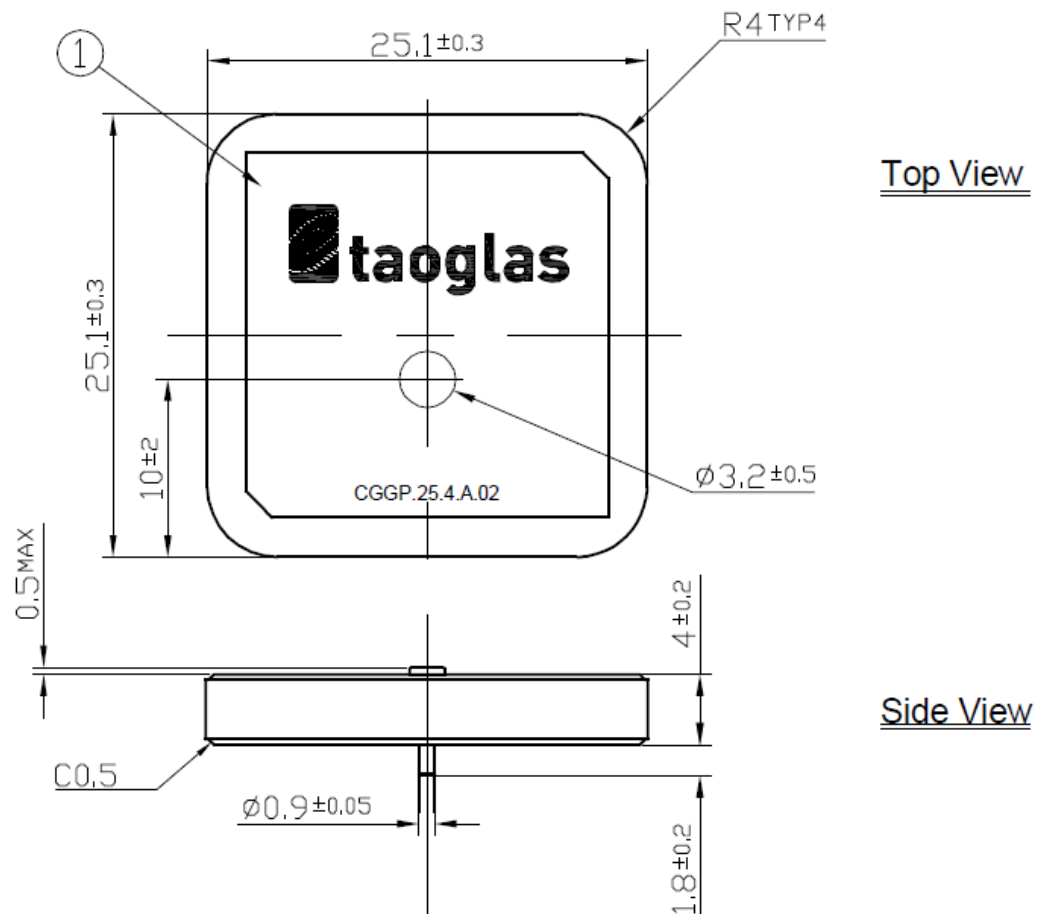
IV.1. XZ – Plane Radiation

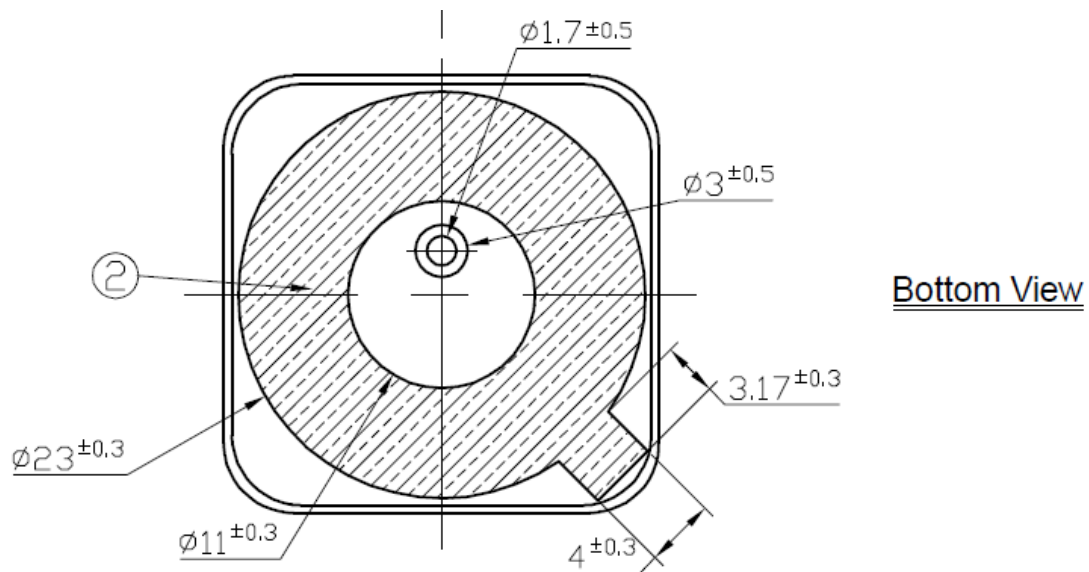


IV.2. YZ- Plane Radiation

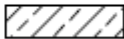


V. Mechanical Drawing



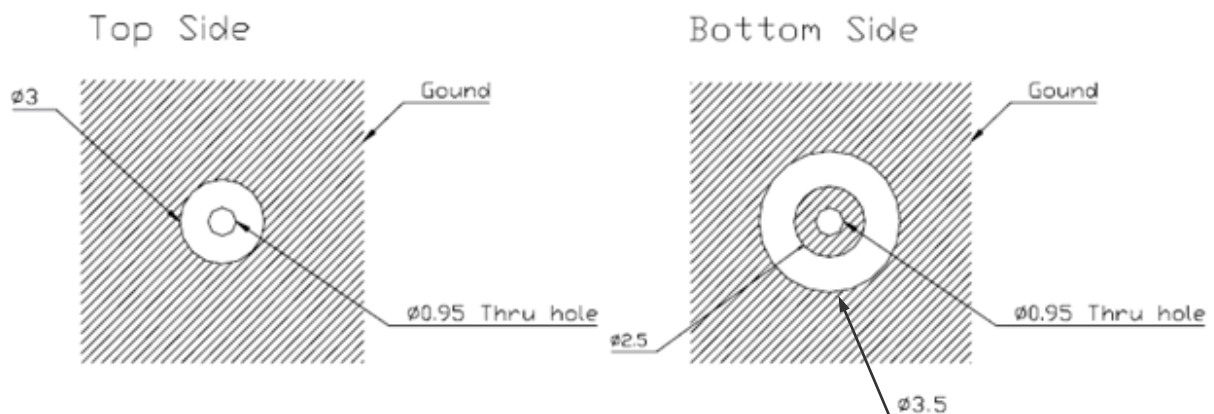


NOTES:

1. Double sided adhesive area. 

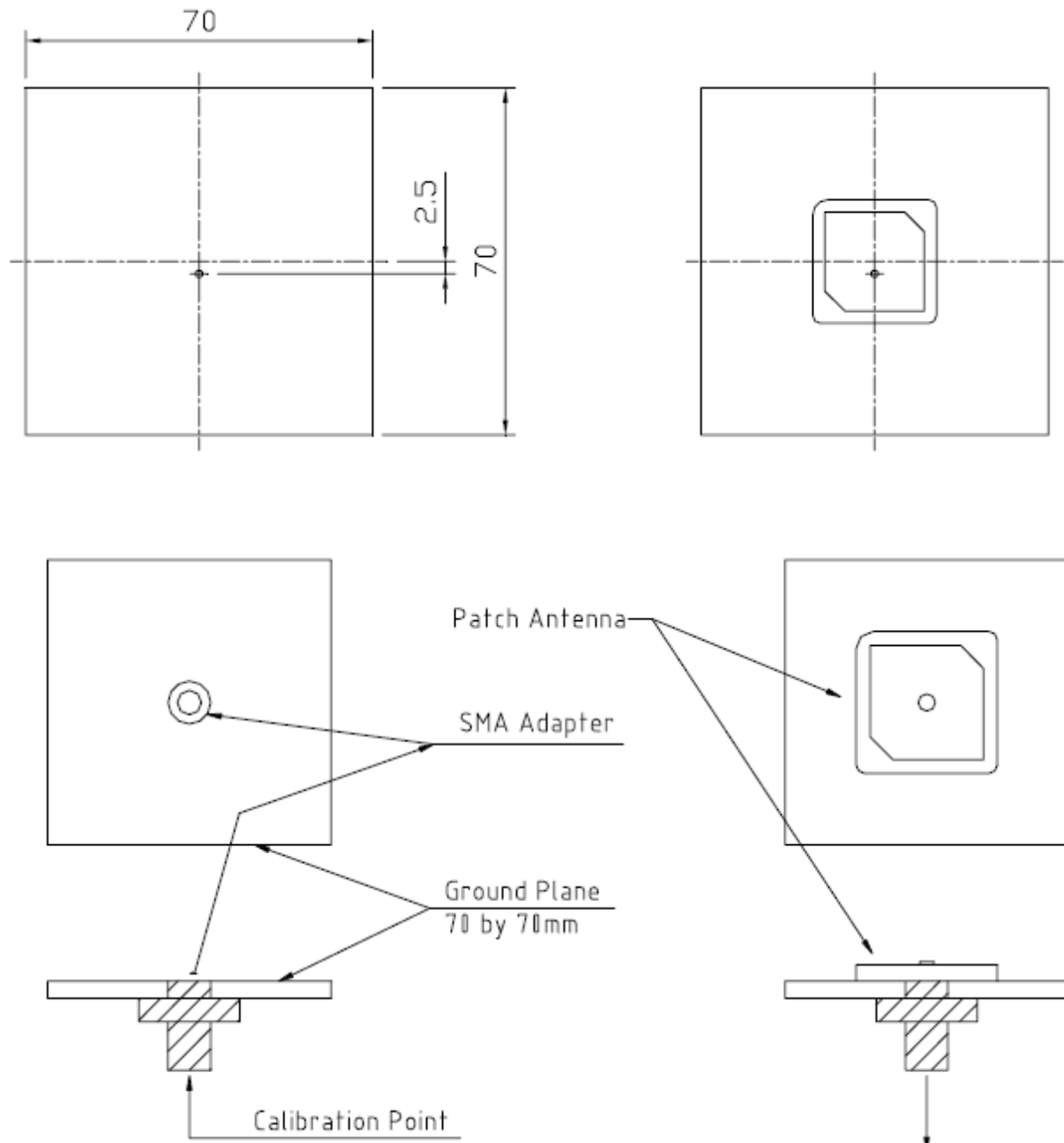
Unit : mm

VI. PCB Footprint Recommendation



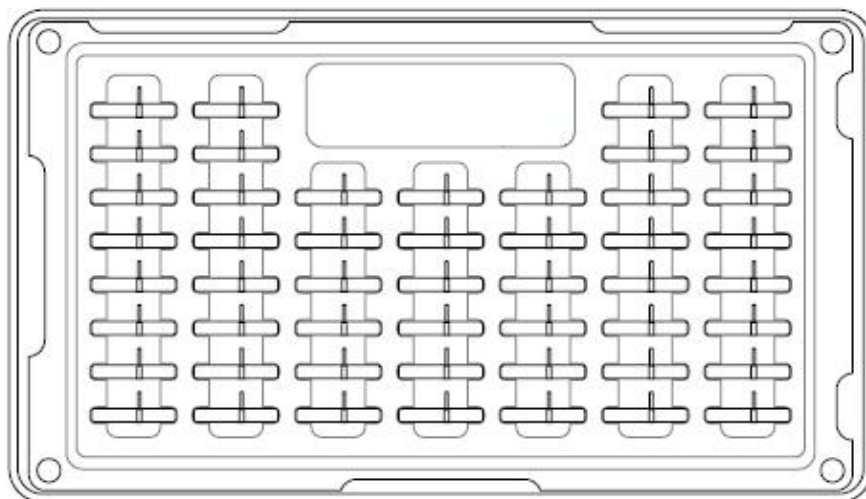
Unit : mm

VII. Evaluation Board



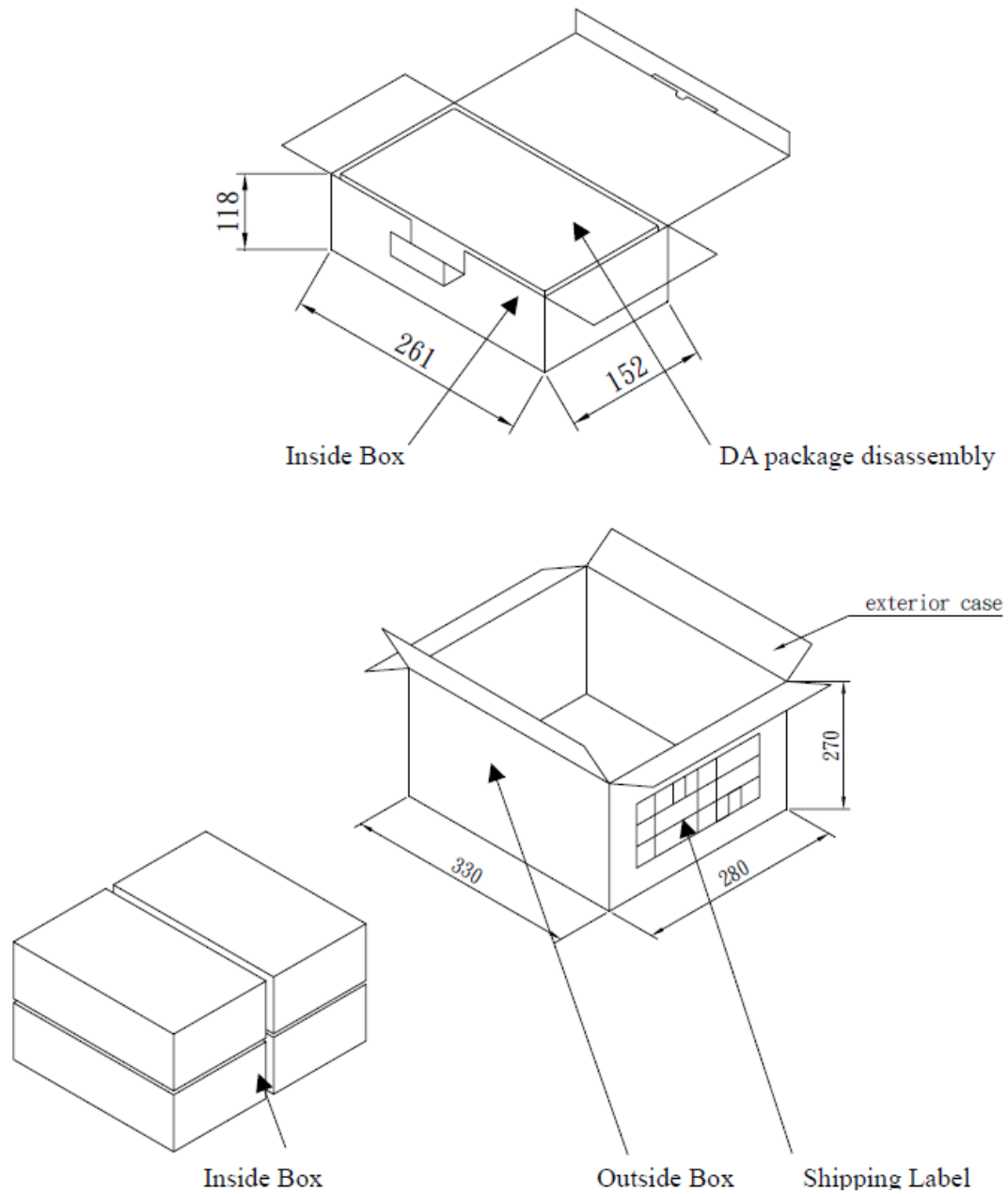
VIII. Packaging

VIII.1. Inner Tray



200 pieces per tray

VIII.2. Carton



Mouser Electronics

Authorized Distributor

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