

SPECIFICATION

Part No. : CGGP.1600.25.4.A.02

Specification No. : CGGP.25.A

Product Name : 4mm thick GPS/GLONASS Patch Antenna,

1600MHz

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.

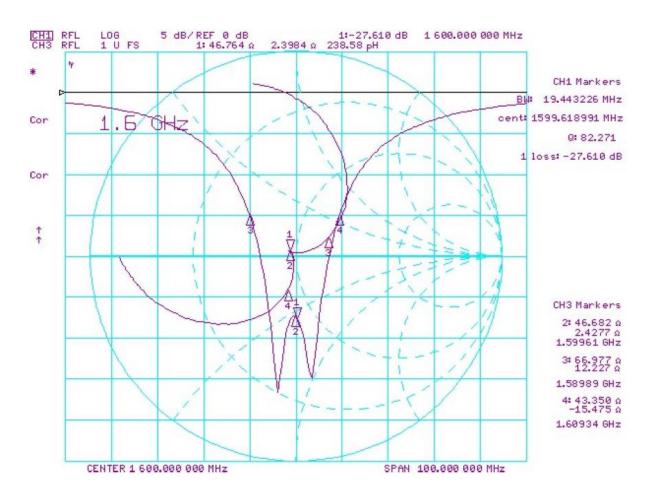
II. Specification

ELECTRICAL	
Center Frequency	1600MHz ± 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

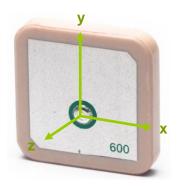
^{*} Antenna properties were measurement with the antenna mounted on 70mm² Ground Plane



III. Antenna S11 Properties

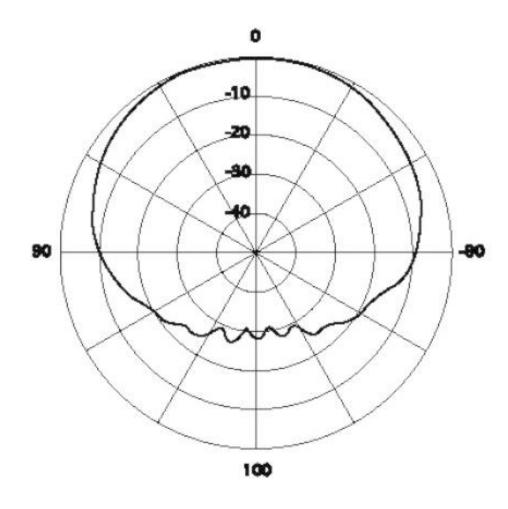


IV. Antenna Radiation Properties



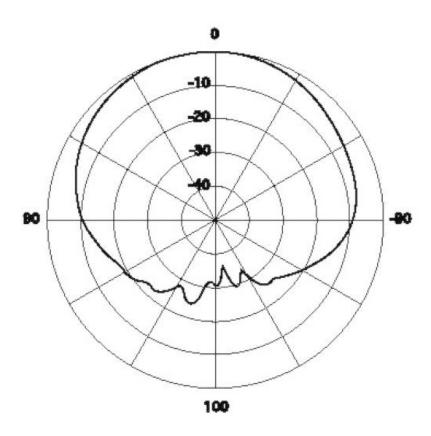


IV.1. XZ – Plane Radiation

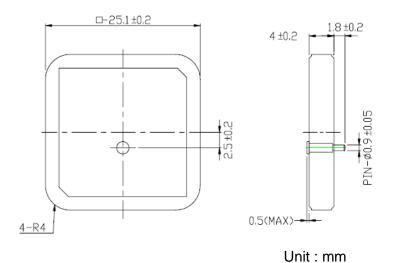


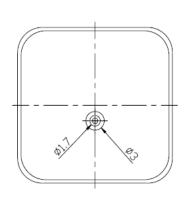


IV.2. YZ- Plane Radiation



V. Mechanical Drawing

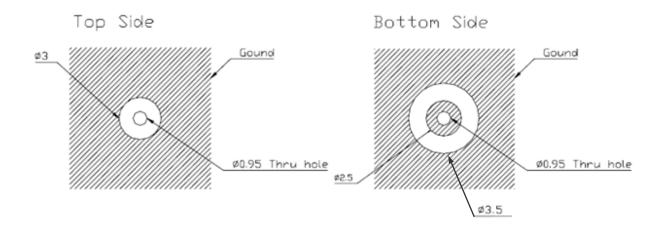




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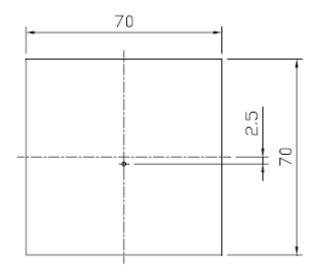


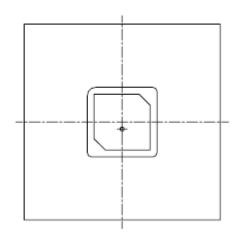
VI. PCB Footprint Recommendation



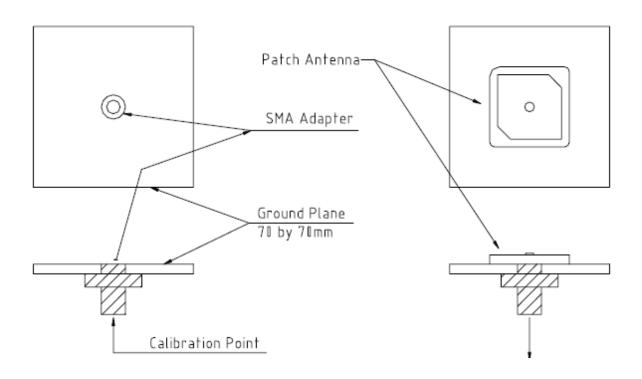
Unit: mm

VII. Evaluation Board







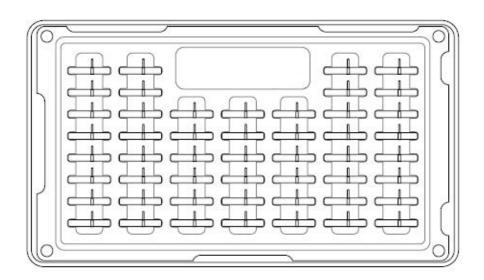




VIII. Packaging

VIII.1. Inner Tray





200 pieces per tray



VIII.2. Carton

