

SPECIFICATION

Part No.	:	CGGP.25.4.A.02
Product Name	:	4mm thick GPS/GLONASS Patch Antenna, 1575-1610MHz
Feature	:	Wide-band Operation 25*25*4mm 5dBi Peak Gain (on 70mm*70mm ground-plane) Pin type
		Automotive TS16949 Production and Quality Approved RoHS compliant





1.Introduction

This 25 mm ceramic GPS/Glonass patch antenna, by means of a double resonance design, has unique wide-band operation over the whole operating bands of GPS and Glonass systems from 1575MHz to 1610MHz. It is mounted via pin and double-sided adhesive.

This antenna has been tuned for a centre position on a 70mm*70mm ground-plane. It is manufactured and tested in a TS16949 first tier automotive approved facility. For further optimization to customer specific device environments where positioning is off centre or on different ground-plane sizes, custom tuned patch antennas can be supplied. For more details please <u>Contact Us.</u>

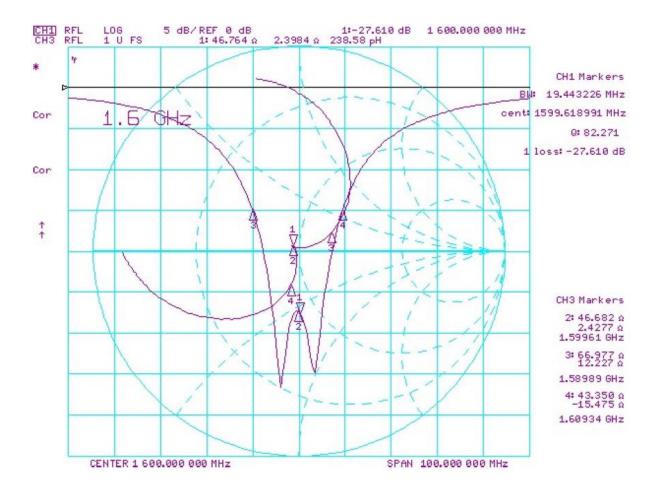
ELECTRICAL				
Center Frequency	1600MHz ± 3MHz			
Bandwidth	15 MHz min Return Loss <-10dB			
VSWR	1.5 max			
Gain at Zenith	+5.0 dBi typ.			
Gain at 10° Elevation	-1.0 dBi typ.			
Impedance	50 ohms			
MECHANICAL				
Ceramic Dimension	25.1 x 25.1 x 4mm			
Pin Diameter	0.9mm			
Pin Length	1.8mm			
ENVIRONMENTAL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

2. Specification

* Antenna properties were measurement with the antenna mounted on 70mm*70mm Ground Plane Taoglas Part # CGGPD.25.A



3. Antenna S11 Properties

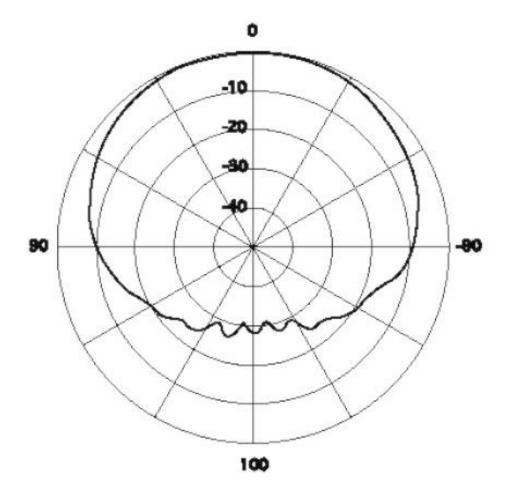




4. Antenna Radiation Properties



4.1. XZ – Plane Radiation

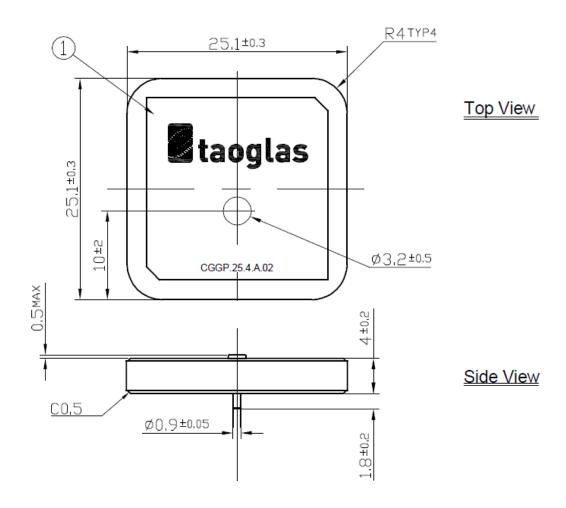




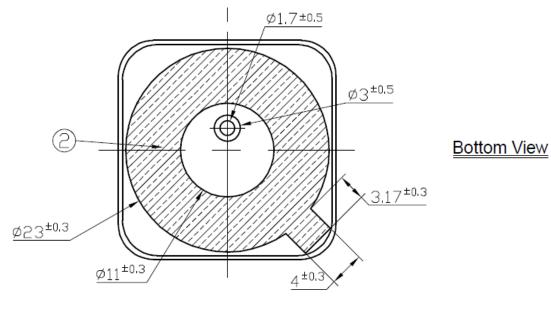
4.2. YZ- Plane Radiation



5. Mechanical Drawing



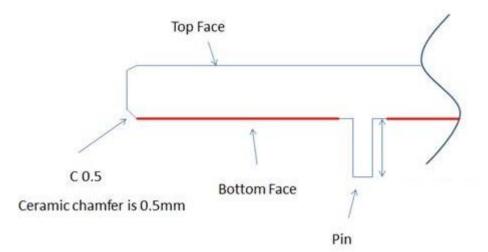




NOTES: 1.Double sided adhesive area.

Unit : mm

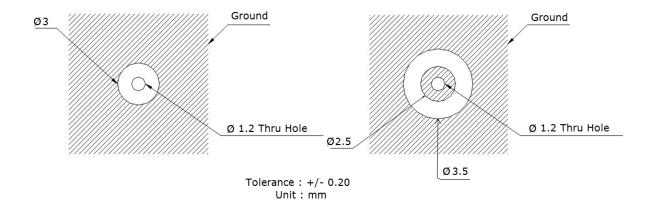
5.1 Adhesive Thickness



Red Line shows the adhesive without Liner – thickness 0.08~0.1mm

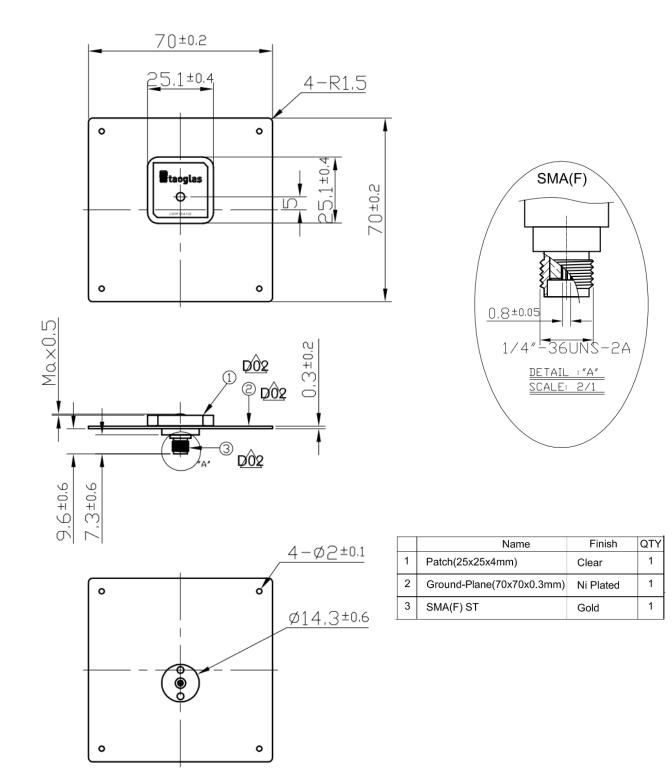


6. PCB Footprint Recommendation

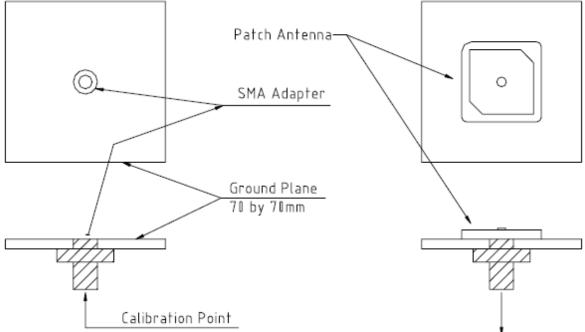




7. Evaluation Board (CGGPD.25.A)





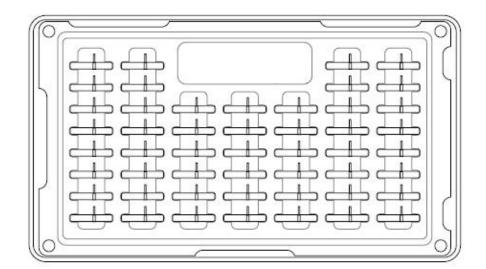




8. Packaging

8.1. Inner Tray





200 pieces per tray



