

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SPECIFICATION

Part No. : **CGGBP.35.6.A.02**

Product Name : 35mm*35mm*6.5mm 3~4dBi

GPS/GLONASS/GALILEO/BEIDOU

Embedded Patch Antenna

BEIDOU 1561MHz / GPS-GALILEO 1575MHz /

GLONASS 1602MHz

Feature : Dielectric Ceramic

Pin Mount

RoHS Compliant







1. Introduction

This 35mm square ceramic GPS/GLONASS/GALILEO/BEIDOU patch antenna's wide band of operation leads to excellent gain and radiation pattern stability on all three GNSS system bands.

Compared to using a smaller antenna, this will translate into the GNSS system having much higher location accuracy, improved reliability of lock in urban areas, better signal reception, with more satellites acquired and a quicker time to first fix.

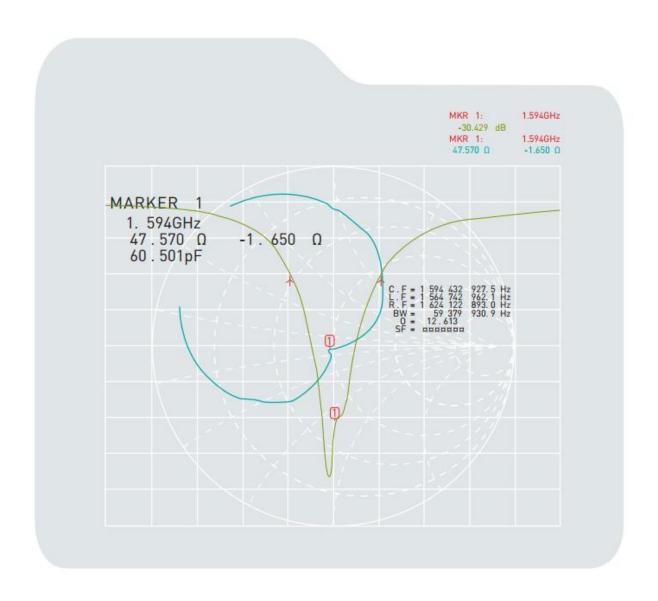
The patch is mounted via pin and double-sided adhesive.

2. Specification

ELECTRICAL			
Frequency	BeiDou:1561.098MHz \pm 2.046MHz GPS/GALILEO: 1575.42 \pm 1.023MHz GLONASS: 1602 \pm 5MHz		
Centre Frequency	1594MHz ± 6MHz		
VSWR	2.5 : 1 max		
Bandwidth	57MHz Return Loss @-10dB		
Zenith Gain	BeiDou: +4.5dBi typ. GPS/GALILEO: +3.0dBi typ. GLONASS: +4.5dBi typ.		
Impedance	50 Ω		
MECHANICAL			
Dimensions	35 x 35 x 6.5mm		
Material	Ceramic		
Pin Diameter	0.9mm		
Pin Length	4.0mm		
ENVIRONMENTAL			
Operation Temperature	-40°C to 85°C		
Storage Temperature	-40°C to 105°C		
Humidity	Non-condensing 65°C 95% RH		



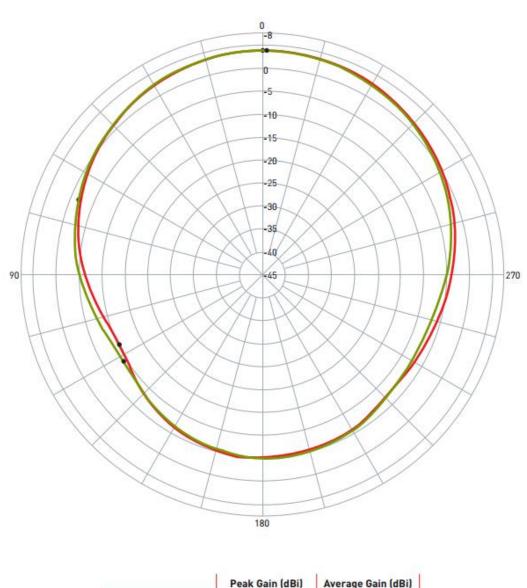
3. Antenna S11 Properties





4.2D Antenna Radiation

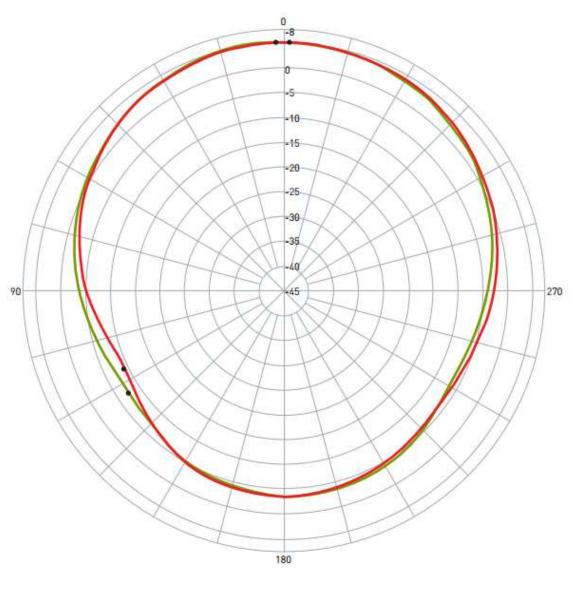
4.1 1575.42MHz Free Space



	Peak Gain (dBi)	Average Gain (dBi)
XZ Plane	3.85	-0.97
YZ Plane	3.78	-1.04

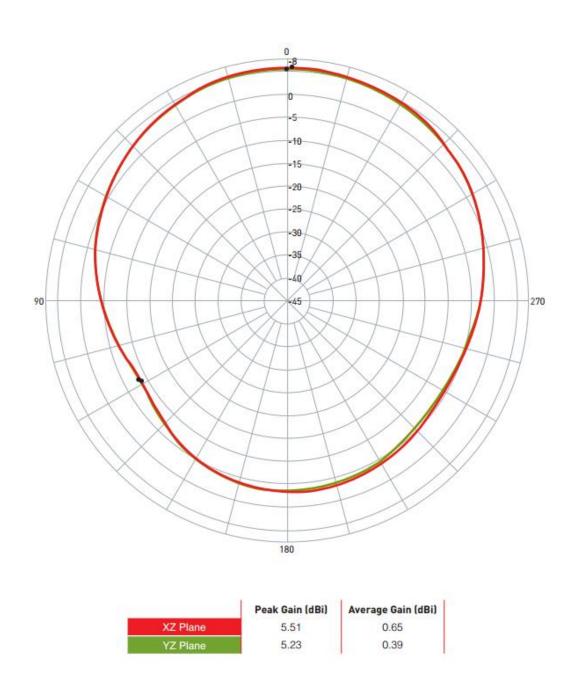


4.2 1561MHz Free Space



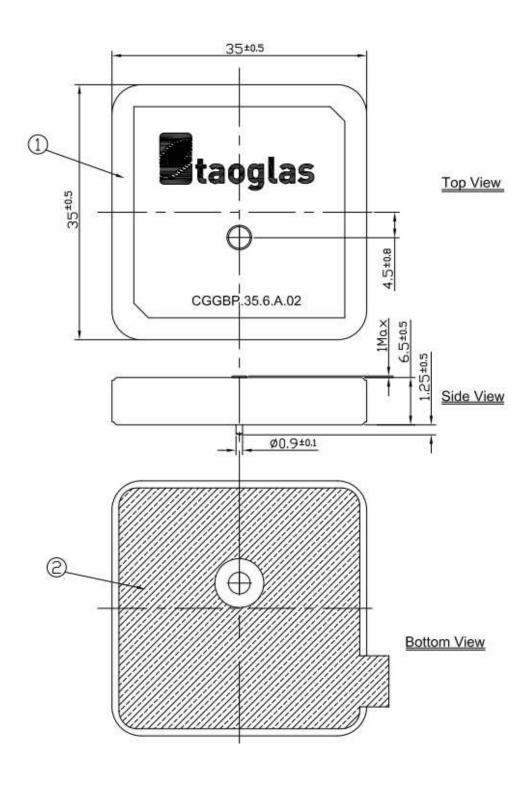


4.3 1602MHz Free Space



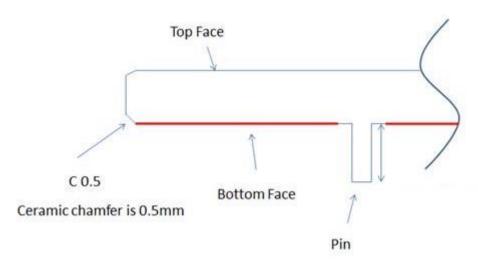


5. Mechanical Drawing





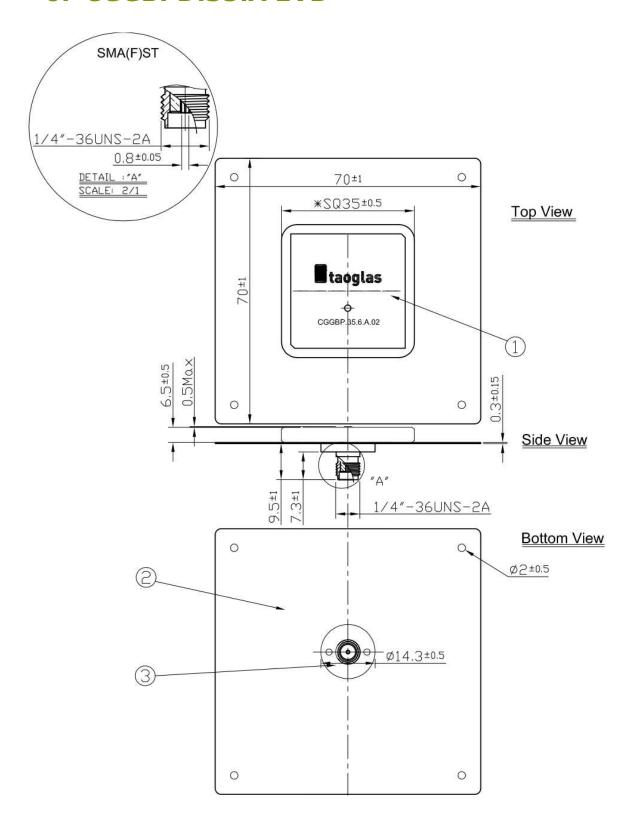
5.1 Adhesive Thickness



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



6. CGGBPD.35.A EVB

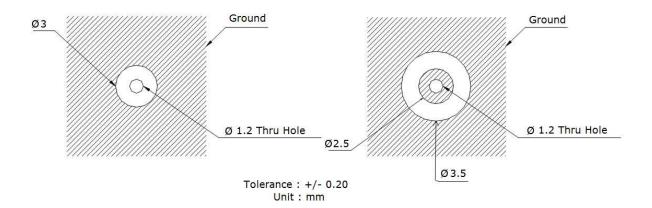








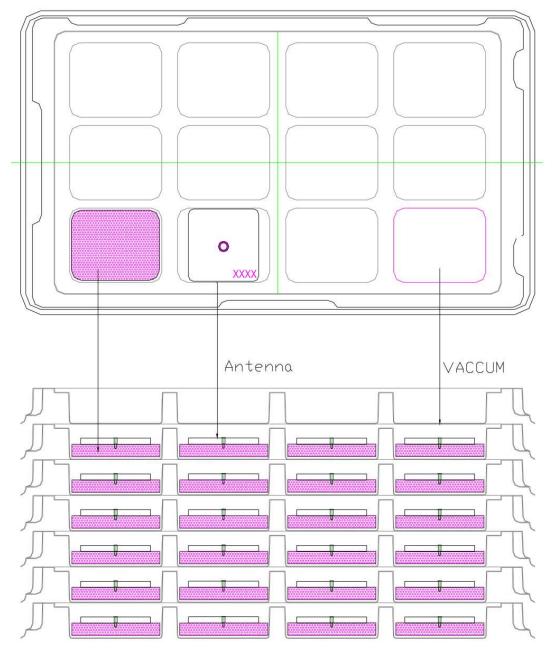
7. PCB Footprint Recommendation





8. Packaging

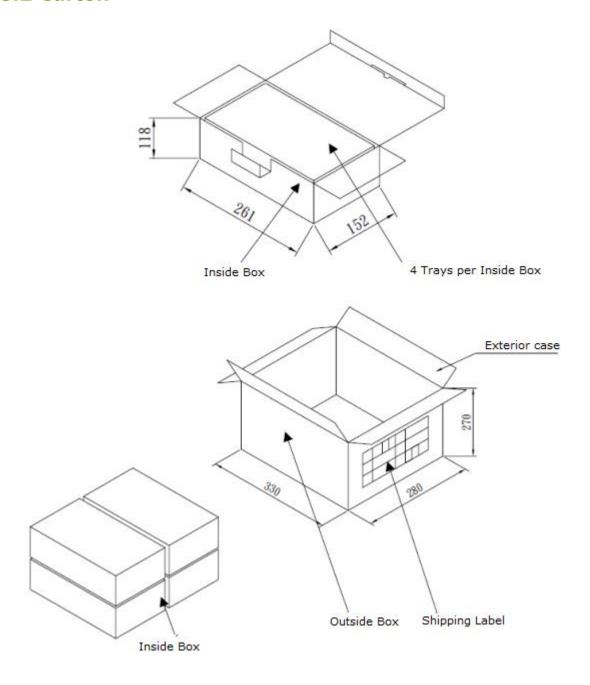
8.1 Inner Tray



- 12 pieces per tray
- 6 Trays per Inside Box = 72
- 4 Inside Boxes per Outer Carton -Outer Carton contains 288 pieces



8.2 Carton



Taoglas makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Taoglas reserves all rights to this document and the information contained herein.

Reproduction, use or disclosure to third parties without express permission is strictly prohibited.

Copyright © Taoglas Ltd.

