



CGGBP.35.6.A.02 Front



CGGBP.35.6.A.02 Back

CGGBP.35.6.A.02

Specification

Part No.	CGGBP.35.6.A.02
Product Name	35mm*35mm*6.5mm 3~4dBi GPS/GLONASS/BEIDOU Embedded Patch Antenna BEIDOU 1561MHz / GPS 1575MHz / GLONASS 1602MHz
Feature	Dielectric Ceramic Pin Mount RoHS Compliant



1. Introduction

This 35mm square ceramic GPS/GLONASS/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.

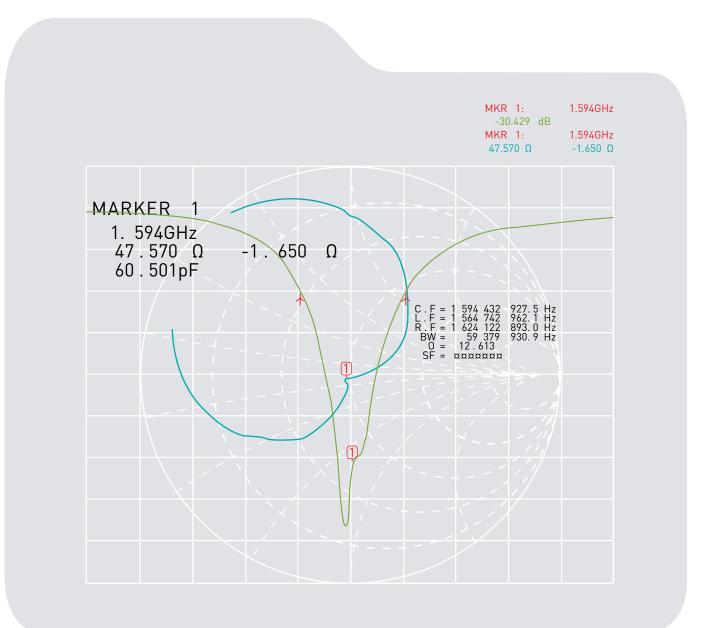
The patch is mounted via pin and double-sided adhesive.

2. Specification

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



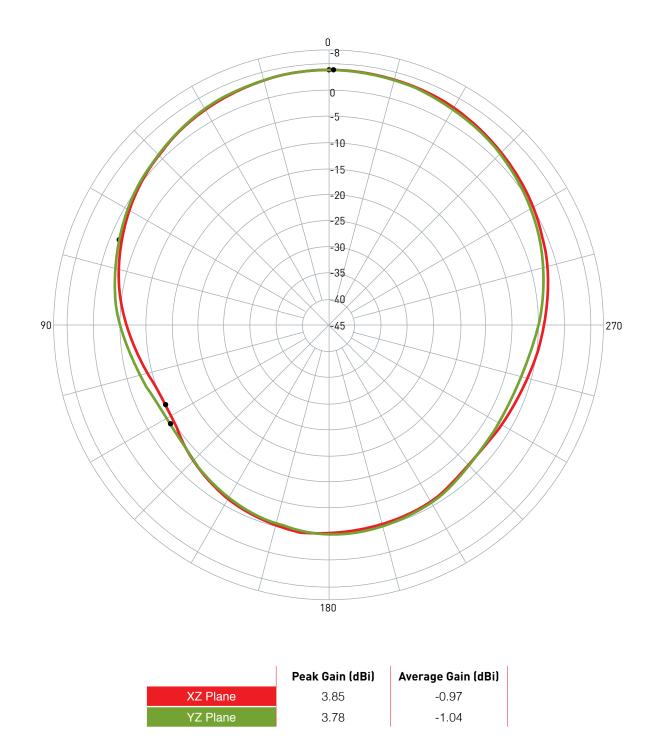






4. 2D Antenna Radiation

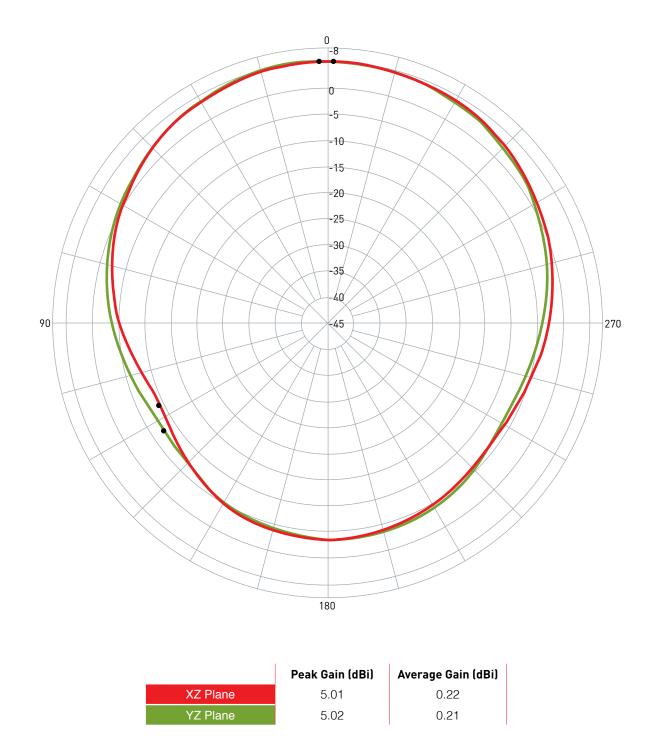
4.1 1575.42MHz Free Space





4. 2D Antenna Radiation

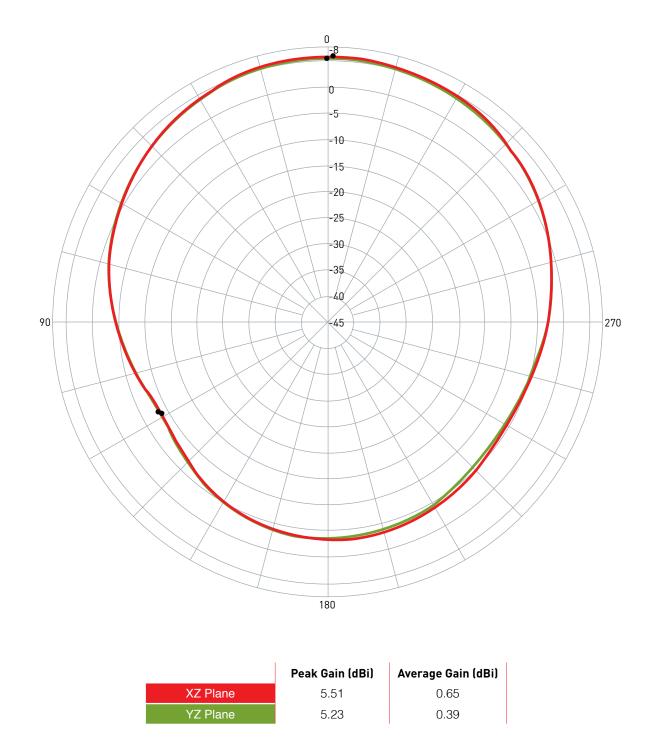
4.2 1561MHz Free Space





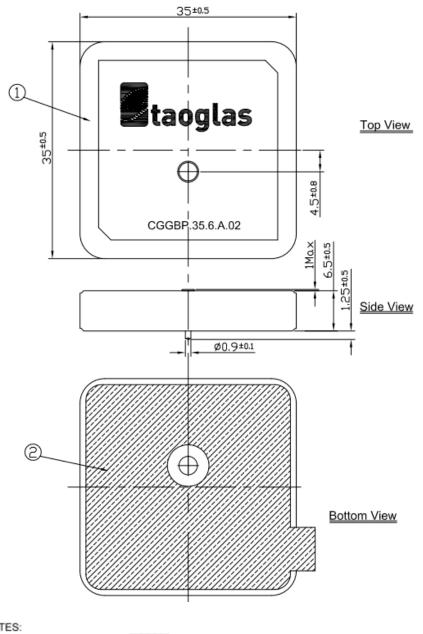
4. 2D Antenna Radiation

4.3 1602MHz Free Space





5. Mechanical Drawing



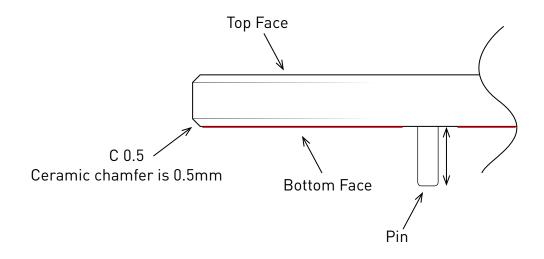
NOTES: 1.Double sided adhesive area

	Name	Material	Finish	QTY
1	Patch 35x35x6.5	Ceramic	Clear	1
1	Double sided Adhesive	NITTO5015	White Liner	1



5. Mechanical Drawing

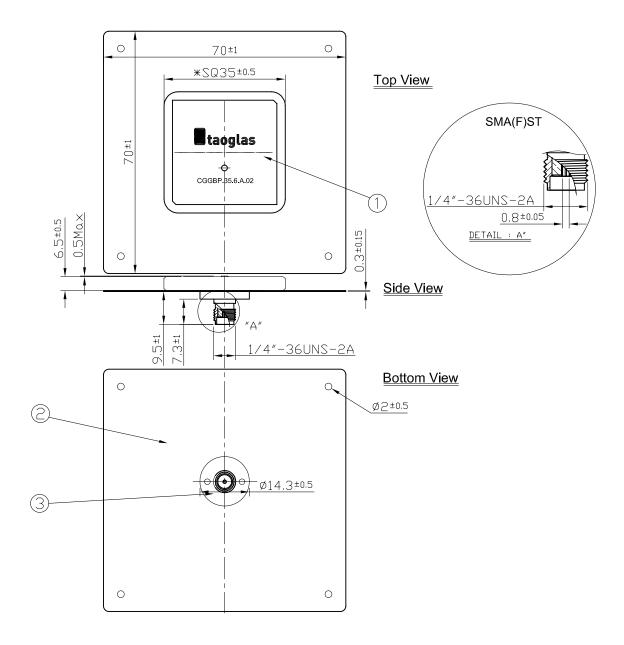
5.1 Adhesive Thickness



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



6. CGGBPD.35.A EVB

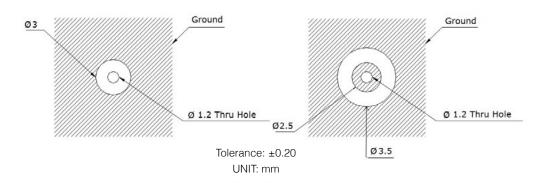


	Name	Material	Finish	QTY
1	Patch 35x35x6.5	Ceramic	Clear	1
2	Ground-Plane(70x70x0.3mm)	Brass	Silver	1
3	SMA(F) ST	Brass	Gold	1





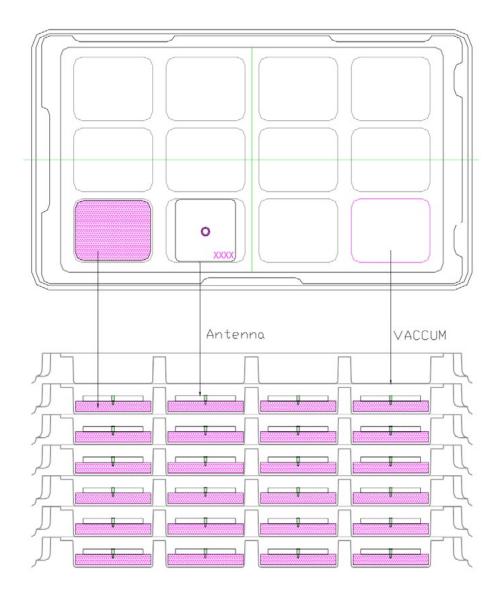
7. PCB Footprint Recommendation





8. Packaging

8.1 Inner Tray

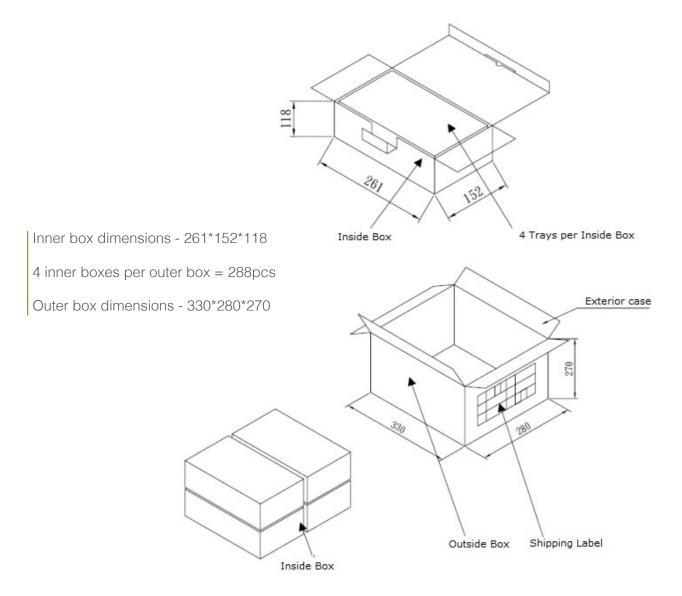


12pcs per tray 6 trays per inner box = 72pcs Inner box dimensions - 261*152*118



8. Packaging

8.2 Carton



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