

taoglas Oglas SL-GS

Datasheet

Part No: GP.1575.15.4.B.02

Features:

Dimensions: 15mm*15mm*4mm Mounted with pin and adhesive tape 1575.42MHz GPS/Galileo Patch Antenna RoHS & REACH Compliant

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Introduction

1.





The GP.1575.15.4.B.02 is a miniaturized ceramic GPS/GALILEO patch antenna is based on smart XtremeGain[™] technology. It has been designed and tuned by Taoglas' expert team to work at the GPS/Galileo L1 frequency 1575.42MHz. It is an ideal solution for customers who require a miniature antenna for an application where antenna size is crucial

Typical applications include:

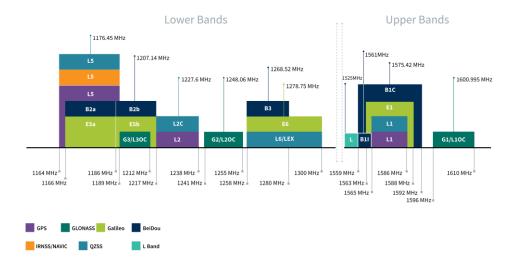
- Commercial & Hobbyist UAVs
- Compact IoT Sensors
- Asset Trackers
- Telematics & OBDs

It is mounted via pin and double-sided adhesive and has been selected as optimal solution for the customer device environment. The GP.1575.15.4.B.02 can be tuned for customer devices, subject to NRE and MOQ, please contact your regional Taoglas customer support team for further information.



2. Specification

GNSS Frequency Bands					
GPS	L1 1575.42 MHz	L2 1227.6 MHz	L5 1176.45 MHz		
GLONASS	G1 1602 MHz	G2 1248 MHz	G3 1207 MHz		
Galileo	E1 1575.24 MHz	E5a 1176.45 MHz	E5b 1201.5 MHz	E6 1278.75 MHz	
	-				
BeiDou	B1C 1575.42 MHz	B1I 1561 MHz	B2a 1176.45 MHz	B2b 1207.14 MHz	B3 1268.52 MHz
	-				
L-Band	L-Band 1542 MHz				
QZSS (Regional)	L1 1575.42 MHz	L2C 1227.6 MHz	L5 1176.45 MHz	L6 1278.75e6	
	-				
IRNSS (Regional)	L5 1176.45 MHz				
SBAS	L1/E1/B1 1575.42 MHz	L5/B2a/E5a 1176.45 MHz	G1 1602 MHz	G2 1248 MHz	G3 1207 MHz
	-				



GNSS Bands and Constellations

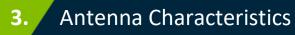


GNSS Electrical		
Frequency (MHz)	1575.42	
Passive Antenna Efficiency (%)	36.1	
Passive Antenna Gain at Zenith (dBi)	1.69	
Polarization	RHCP	
Impedance	50 Ω	

Mechanical		
Dimensions	15*15*4mm	
Weight	5g	
Material	Ceramic	

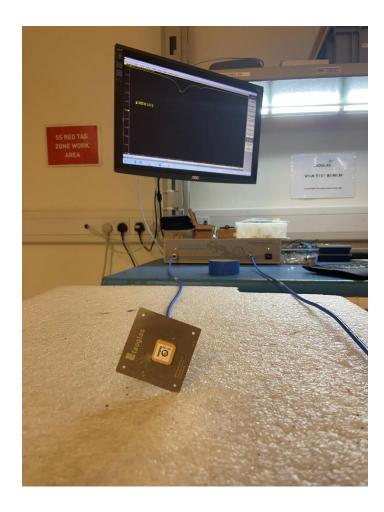
Environmental		
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
RoHs Compliant	Yes	



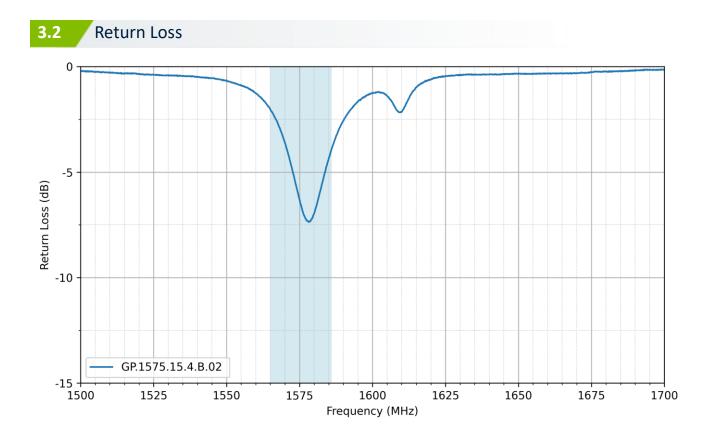


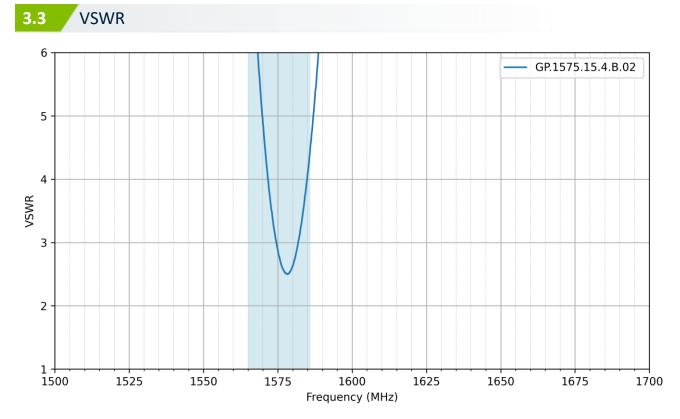




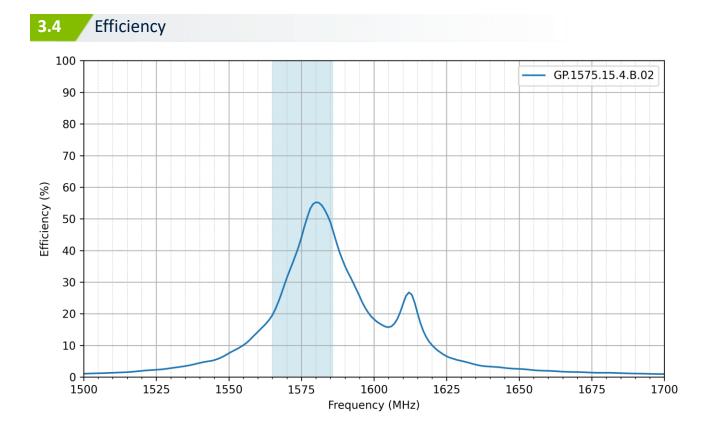


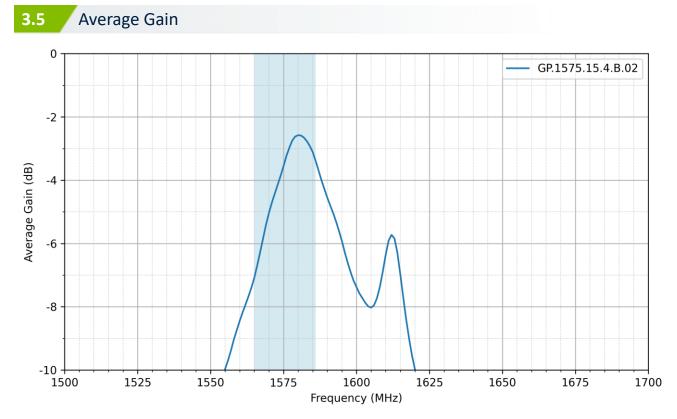




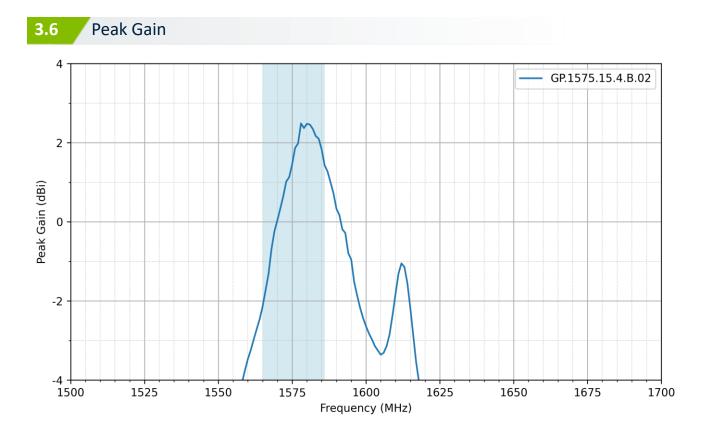










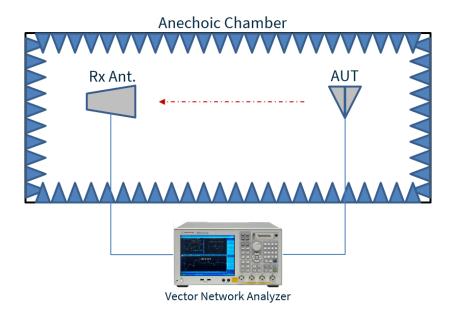


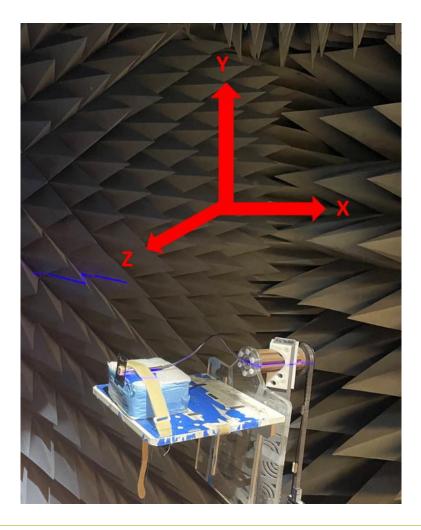






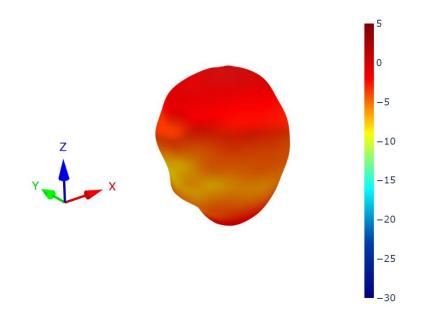
4.

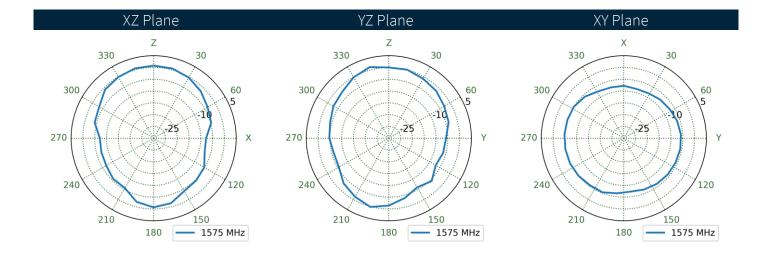






4.2 GP.1575.15.4.B.02 Patterns at 1575 MHz

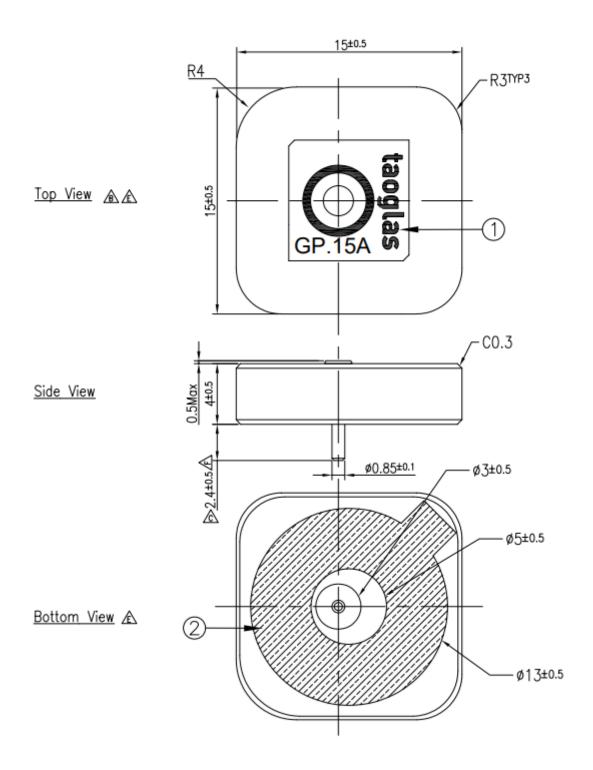






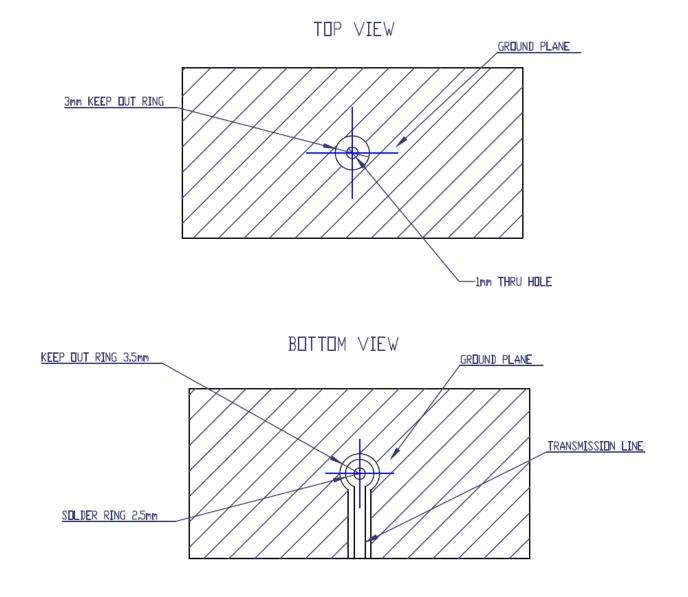
Mechanical Drawing

5.





6. Footprint

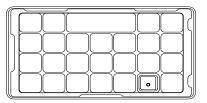






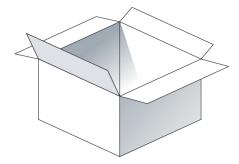
Packaging

400pcs per Inner Carton

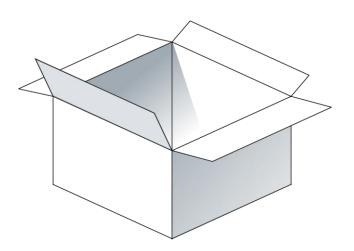


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400pcs GP.1575.15.4.B.02 per carton Dimensions - 263*154*96mm Weight – 2Kg



1600pcs GP.1575.15.4.B.02 per carton Dimensions - 327*280*218mm Weight – 8.2Kg





Changelog for the datasheet

SPE-12-8-094 - GP.1575.15.4.B.02

Revision: E (Current Version)		
Date:	2023-08-17	
Changes:	Full datasheet update	
Changes Made by:	Gary West	

Previous Revisions

Revision: D			
Date:	2021-06-21		
Changes:	Updated Pin Length to 2.4mm Updated Drawing		
Changes Made by:	Dan Cantwell		

Revision: C		
Date:	2018-03-15	
Changes:	Drawing and Photo updated	
Changes Made by:	Jack Conroy	

Revision: B		
Date:	2016-04-22	
Changes:		
Changes Made by:	Unknown	

Revision: A (Original First Release)		
Date:	2012-07-19	
Notes:		
Author:	SS	