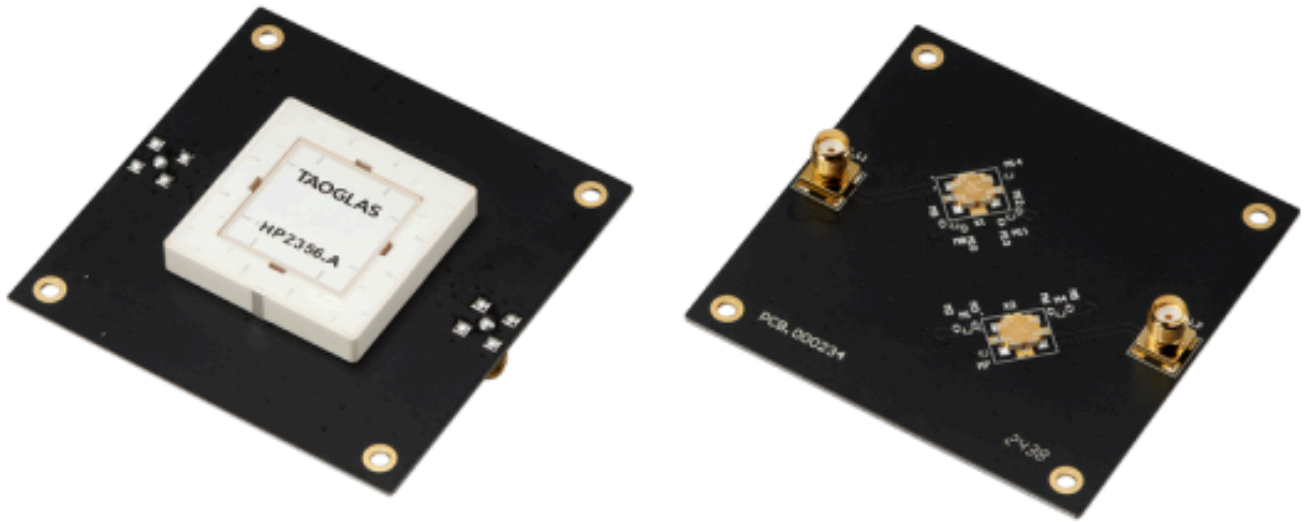
TAOGLAS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HP2356.A
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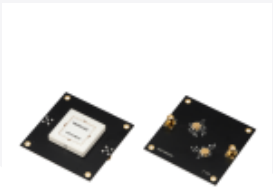

)6, 2025

HPD2356.A – Evaluation Board for HP2356.A Low Profile High Precision GNSS L1/L2 Passive Patch Antenna

HPD2356.A

Evaluation Board for High Precision GNSS L1/L2 Passive Patch Antenna

Patent Pending ‘patch within a patch’ design

Bands Covered:

• BeiDou (B1I)

• GPS/QZSS (L1/L2)

• GLONASS (G1)

Evaluation Board Dimensions: 70 x 70xmm

RoHS & Reach Compliant

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Datasheet

Description | Technical Specification

Overview

Evaluation Board for HP2356.A Low Profile High Precision GNSS L1/L2 Passive Patch Antenna

The Taoglas Inception Series HP2356.A, is a multi-band GNSS passive patch antenna designed for optimum positional accuracy and positioning. It utilizes an innovative ceramic patch within a patch antenna design with optimized gain for GPS L1/L2, Galileo, GLONASS and BeiDou bands and measures just 35*35*6mm.

This ground-breaking design allows customers to integrate a multi-band L1/L2 GNSS patch into devices where this would not have been possible before due to height constraints. At only 6mm in height, the HP2356,A can be used in a variety of applications where typical stacked patch designs are too tall for the device.

Typical Applications Include:

- Wearables
- Compact Asset Trackers
- Precision Agriculture

- Navigation
- Industrial Tracking
- Autonomous Vehicles & Robotics

The HP2356.A has been tuned and tested on a 70 x 70mm ground plane and exhibits excellent radiation patterns. It is optimized to cover the bands required for the next generation of L1/L2 Multiband GNSS receivers that are currently available on the market.

If you require an easy to integrate active electronic circuit for the HP2356.A, the Taoglas **TFM.100A** can be designed onto the device PCB alongside the antenna. The module features a SAW/LNA/SAW/LNA topology in both the low and high band signal paths to prevent unwanted out-of-band interference from overdriving the GNSS LNAs or receiver. The SAW filters have been carefully selected and placed to provide excellent out-of band rejection while also maintaining low noise figure. Care should be taken when integrating this antenna into a customer device.

Care should be taken when integrating this antenna into a customer device. Patch antennas can be specifically tuned to customer-specific device environments, subject to NRE and MOQ. Contact your regional Taoglas customer support team to request these services or additional support to integrate and test this antenna’s performance in your device.

Related Products