High-accuracy Stacked Patch GNSS Antennas offer superior signal processing and GPS accuracy for high precision tracking applications such as UAVs, drones, and vehicle tracking and real time kinematic (RTK) systems

Features and Advantages

- **Silver Pin**: Positions and fixes the antenna to the PCB (via soldering); provides electrical contact between antenna and board.
- **Stacked patch single feed**: Eliminates the need for separate base station.
- **Ceramic Patch Antenna**: Delivers high gain, high radiation efficiency performance for the most demanding GPS applications.
- **High precision tracking**: Allows decimeter to sub-meter level accuracies for geospatial data.
- **Low-profile design**: Affords space savings.

**High-accuracy Stacked Patch GNSS Antenna**

**GPS L1/L5 & GLONASS 36mm Stacked Patch Single Feed Antenna (Series 211624)**

**GPS L1/L2 36mm Stacked Patch Antenna (Series 213602)**

**GPS L1/L5 25mm Stacked Patch Antenna (Series 212203)**
High-accuracy Stacked Patch GNSS Antenna

Applications

Automotive
  Navigation devices
Commercial Vehicles
  High-speed rail
Industrial
  Drones
  Maritime port technology systems
Surveying and mapping systems
Emergency response systems

Specifications

REFERENCE INFORMATION
Packaging: Tray
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

ELECTRICAL
RF Power (watt): 2
Average Total Radiation Efficiency:
L5: >60% (211624), >65% (212203)
L2: >50% (213602)
L1: >75% (211624, 212203), >80% (213602)
GLONASS: >70% (211624)
Peak Gain:
L5: 2.1dBi (211624), 3.1dBi (212203)
L2: 2.1dBi (213602)
L1: 4.5dBi (211624), 4.9dBi (212203), 5.3dBi (213602)
GLONASS: 4.2dBi (211624)
Return Loss: <-10dB (211624)
L5: <-20dB, L1: <-15dB (212203, 213602)
Input Impedance (ohms): 50

MECHANICAL
Refer to Product Specifications

PHYSICAL
Housing: Ceramic
Plating: Refer to Sales Drawings
Material: Ceramic
Dimension (mm): 36.00 by 36.00 by 7.00 (211624, 213602)
                     25.00 by 25.00 by 8.00 (212203)
Operating Temperature: -40 to +85°C

Ordering Information

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Description</th>
<th>Mounting Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>211624</td>
<td>GPS L1/L5 and GLONASS 36mm Stacked Patch Single-Feed Antenna.</td>
<td>Peel-and-stick</td>
</tr>
<tr>
<td>212203</td>
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www.molex.com/link/gnss-gps.html

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