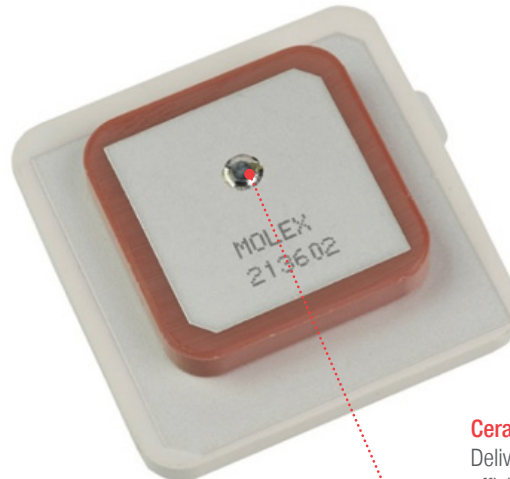


High-accuracy Stacked Patch GNSS Antenna

molex

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

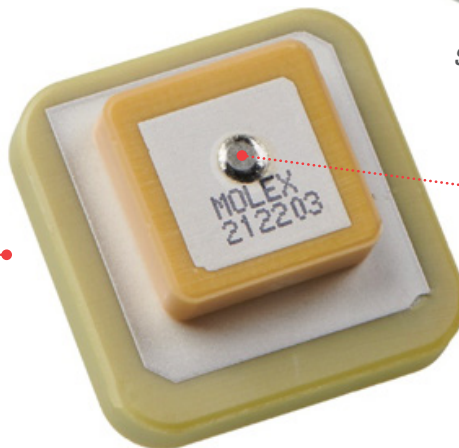
Features and Advantages



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

Ceramic Patch Antenna

Delivers high gain, high radiation efficiency performance for the most demanding GPS applications



*GPS L1/L5 25mm
Stacked Patch Antenna
(Series 212203)*

Stacked patch single feed

Eliminates the need for separate base station

Silver Pin

Positions and fixes the antenna to the PCB (via soldering); provides electrical contact between antenna and board



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

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



Applications

Automotive

Navigation devices

Commercial Vehicles

High-speed rail

Industrial

Drones

Maritime port technology systems

Surveying and mapping systems

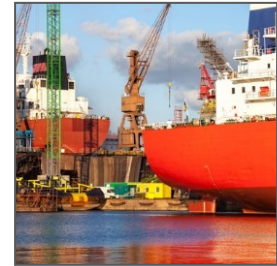
Emergency response systems



Automotive



Drones



Maritime Port Technology 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

Series No.	Description	Mounting Style
211624	GPS L1/L5 and GLONASS 36mm Stacked Patch Single-Feed Antenna	Peel-and-stick
212203	GPS L1/L5 25mm Stacked Patch Antenna	Peel-and-stick
213602	GPS L1/L2 36mm Stacked Patch Antenna	Peel-and-stick

www.molex.com/link/gnss-gps.html

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