

- Part I : General Applications in Automotive Products
- Part II: Molex Internal Antennas for Automotive Infotainment
- Part III : Molex External Antennas for Automotive Applications









 Antenna applications in vehicles: Cellular, GNSS, Wi-Fi, Bluetooth, wireless charging, sensor and detecting... connectivity solutions that enhance the communication, driving and riding experience.



 Antenna applications on the road: Keyless entry, V2I, V2X









206640 SERIES: GNSS ACTIVE PATCH ANTENNA WITH LNA (206640)

Product overview:

- ii Full GNSS bands coverage
- ii Ceramic patch, 28dB two-stage LNA
- U Dimension 25 x 25 x 6.5mm, connecting 60mm-long coax cable and U.FL connector
- ii RoHS-compliant

- Excellent performance(>70%eff) working on Nonclearance PCB
- ii GNSS all protocol covered (GPS/Beidou/GLONASS/Galileo)
- ii Automotive standard



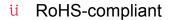




206774 SERIES:-WI-FI 6E TRI-BAND 2.4/5/6GHZ SMT CERAMIC CHIP ANTENNA, CORNER MOUNT

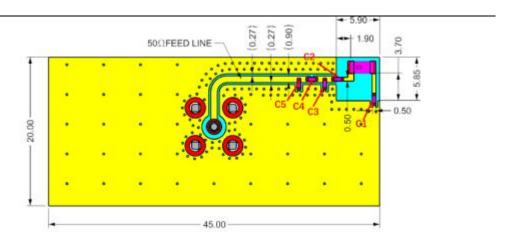
Product overview:

- ii Full Wi-Fi bands coverage
- **ii** SMT Ceramic Chip Antenna
- 3.2 x 1.6 x 0.65mm with a PCB keep-out area of 5.9 x 5.85mm





- i Excellent performance (>55% radiation efficiency)
- ii Wi-Fi Tri-band covered, especially Wi-Fi new band 6E
- ii Automotive standard







146153 SERIES: WI-FI 6E FLEX CABLE BALANCE ANTENNA © Molex, LLC - All Rights Reserved. Unauthorized Reproduction/Distribution is Prohibited

Product overview:

- ii Full Wi-Fi bands coverage
- ii FPC antenna with Cable and Connector
- ii 35 x 9 x 0.1mm, connecting micro coaxial cable and U.FL connector
- ii RoHS Compliant



- ii Excellent performance (>70% radiation efficiency)
- Wi-Fi Tri-band covered, especially Wi-Fi new band 6E
- ii Automotive standard







215868 SERIES

2.4GHZ / 5GHZ WI-FI ON-METAL ANTENNA (215868)

Product overview:

ii Antenna size:44 x 37 x 8.5mm

ü Cable length: 300mm

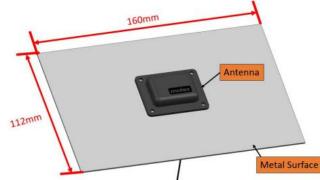
ii Connector: U.FL

ii Mounting method: Adhesive / Screw-mounting



- ii Excellent performance on metal surface
- ii IP67-rated
- ii Automotive standard











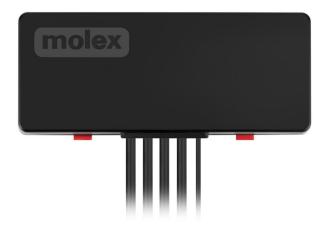
Product overview:

ii Antenna size:155 x 65 x 20mm

Cable length: 1000mm

ii Connector: SMA (Adjustable)

ii Mounting method: Adhesive



- ii Full-band LTE/5G NR*2, Wi-Fi/BT/V2X*2, GNSS*1
- ii Excellent performance even on metal surface
- i IP67-rated
- ii Automotive standard





RESOURCES FOR ANTENNA INFORMATION

References:

- 1. "Antenna" search results on Molex.com
- 2. Molex Antennas and Antenna Assemblies Web Overview
- 3. Antenna Literature on Molex Content Hub







THANK YOU

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