

Triple-band (900MHz, 2.45GHz) Wi-Fi Antenna

molex[®]

Offering greater power efficiency and longer-range connectivity to Wi-Fi Certified products, triple-band ceramic antenna enables multi-vendor operability and easy setup for IoT and M2M applications



Triple-band Wi-Fi Ceramic Antennas (Series 201932)

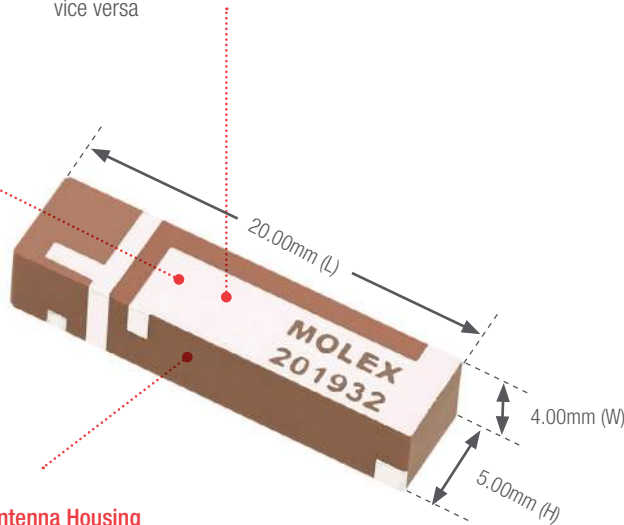
Features and Benefits

Antenna Radiator

Acts as a transducer to convert unguided electromagnetic waves to guided electromagnetic waves and vice versa

Pick-and-Place Feature

Facilitates automatic placement during assembly



Ceramic Antenna Housing

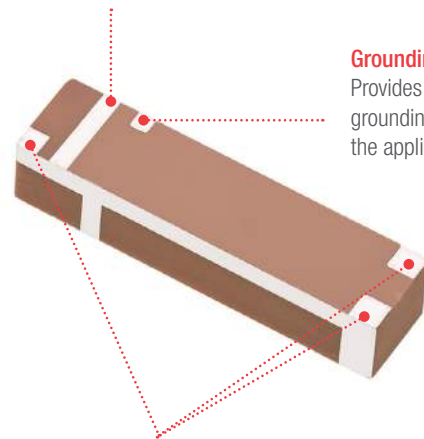
Compact, inexpensive and easy to integrate into applications subject to high reflow temperatures

Feeding pad

Connects to the radio transceiver via a 50-Ohm transmission line on the PCB. Electrical signals from the transmission line are fed through this pad on the PCB

Grounding pad

Provides electrical grounding of antenna onto the application PCB



Fixing pads

Firmly anchor antenna housing onto the SMT pad of the PCB

Applications

Consumer

- Smart Homes
- IoT

Automotive

- Connected Vehicle

Industrial

- Smart Cities



Smart Home



Internet of Things (IoT)

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Specifications

REFERENCE INFORMATION

Packaging:
Use with: Wi-Fi HaLow-technology devices
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: No

ELECTRICAL

Frequency Range:
900 to 924MHz,
2.4 to 2.5GHz,
5.15 to 5.85GHz
Return Loss: < -5, -6 and -5dB respectively
Average Total Radiation Efficiency (%):
>40%, >65%, >55% respectively
Peak Gain (dBi): 0.7, 4.2, 4.5dBi respectively
Input Impedance (ohms): 50

MECHANICAL

Tape Test: Acceptance <10% peeling off

PHYSICAL

Material: Ceramic
Plating: Silver (Ag) 11±4microns
Operating Temperature: -40 to 125°C

Ordering Information

Series No.	Substrate	Mounting	Dimensions (mm)
201932	Ceramic	SMT	20.00 (L) by 4.00 (W) by 5.00 (H) mm

www.molex.com/link/standard_antennas.html

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