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

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.

Features and Benefits

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

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.

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.

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

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Substrate</th>
<th>Mounting</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>201932</td>
<td>Ceramic</td>
<td>SMT</td>
<td>20.00 (L) by 4.00 (W) by 5.00 (H) mm</td>
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</tbody>
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www.molex.com/link/standard_antennas.html

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Order No. 987651-7041

APS/0k/GF/2017.07

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