2.4, 5 GHz Flexible and PCB Antennas

Designed for fast and easy integration into wireless devices at minimal implementation cost, side and center-fed cable Flexible Antenna enable high-performance RF transmission for the most demanding Wi-Fi applications.

Features and Advantages

- **Micro-coaxial cable, 100mm**
  Ensures optimum RF performance for easy connectivity to radio devices.

- **UFL-type connector**
  Secures to the application’s device radio.

- **Self adhesive mounting on metal and non-metal surface**
  Enables instant application anywhere on the device.

- **Double sided TESA adhesive**
  Enables easy “peel and stick” mounting.

- **Cable and connector can be customized**
  Provides design flexibility.

- **Solder pad for Core**

- **Solder pad for Ground**

- **2.4, 5 GHz MIMO 2x2 Flexible Antenna**
  (Series 208482)

- **2.4, 5 GHz Wi-Fi Flexible Antenna, 15.00 by 6.00mm, Monopole, Side-fed**
  (Series 206994)

- **2.4, 5 GHz Wi-Fi Flexible Antenna, Monopole, Center-fed**
  (Series 206995)
2.4, 5 GHz Flexible and PCB Antennas

Features and Advantages

- **Topside of the poly-flexible antenna**
  Makes for easy peel-and-stick mounting anywhere within the device chassis

- **Rigid PCB antenna with two holes on both sides for screw-nut mounting**
  Offers more robust securing of antenna to device chassis in rugged applications

- **Double-sided adhesive on the antenna reverse**
  Enables instant application anywhere on the inner wall of the device chassis by just removing its tape liner

- **micro-coaxial cable (50, 100, 150, 200, 250, 300mm options)**
  Extends connectivity for maximum design flexibility

- **UFL-type connector**
  Secures to the application’s device radio

Applications

- **Consumer**
  - Connected Home
  - Smart Home

- **Automotive**
  - Connected Vehicle
  - Comfort and Infotainment

- **Industrial**
  - Smart Cities

- **Connected Home Smart Cities**
2.4, 5 GHz Flexible and PCB Antennas

Specifications

REFERENCE INFORMATION
Reference Information
Packaging: PET Film
Mates with: Surface-mount, micro-coaxial jack receptacle (Series: 73412)
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Capable: No

ELECTRICAL
RF Power (Watt): 2
Return Loss: < -10 dB
Average Total Radiation Efficiency (%):
  Refer to Product Specifications
Peak Gain (dBi): Refer to Product Specifications
Input Impedance (ohms): 50

MECHANICAL
Refer to Product Specifications

PHYSICAL
Material: Flexi (146153, 204281, 208482 and 206994);
FR4 PCB (146187 and 206995)
Plating:
  Refer to Sales Drawings
Operating Temperature: -30 to +85°C
  -40 to +85°C (206995, 208482)

Ordering Information

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Substrate</th>
<th>Cable Feed</th>
<th>Dimensions (mm)</th>
<th>Cable Lengths (mm)</th>
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<tbody>
<tr>
<td>206994</td>
<td>Flexi material</td>
<td>Side</td>
<td>15.00 by 6.00</td>
<td>100</td>
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<tr>
<td>206995</td>
<td>PCB (FR4)</td>
<td>Center</td>
<td>20.50 by 20.50</td>
<td>150</td>
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<tr>
<td>208482</td>
<td>Flexi material</td>
<td>Center</td>
<td>55.20 by 19.20</td>
<td>100, 150, 200</td>
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<tr>
<td>204281</td>
<td>Flexi material</td>
<td>Side</td>
<td>35.00 by 11.00</td>
<td>50, 100, 150, 200</td>
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<tr>
<td>146153</td>
<td>Flexi material</td>
<td>Center</td>
<td>34.90 by 9.00</td>
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<tr>
<td>146187</td>
<td>PCB (FR4)</td>
<td>Center</td>
<td>40.95 by 9.00</td>
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</tbody>
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www.molex.com/link/standard_antennas.html

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