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

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

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

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

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

- **Solder pad for Core**

- **Solder pad for Ground**

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

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

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

- **2.4, 5GHz 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**
  (Series 206995)

- **Highly compact, side-fed monopole antenna**
  Offers significant space savings while supporting high-performance needs

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

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

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

- **Micro-coaxial cable, 100mm**
  Ensures optimum RF performance for easy connectivity to radio devices
2.4, 5 GHz Flexible and PCB Antennas

Features and Advantages

- **Easy peel and stick**
  Enables instant application on non-metal surface

- **Highly compact**
  Offers significant space savings while supporting high performance needs

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

- **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

- **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

- **5.9GHz FLEXIBLE ANTENNA**
  (Series 211996)

- **2.4, 5 GHz Wi-Fi Flexible Antenna, Fully Balanced, Dipole-style, Side-fed (Series 204281)**

- **2.4, 5 GHz Flexible Antenna, Fully Balanced, Dipole-style, Center-fed**
  (Series 146153)

- **2.4, 5 GHz Wi-Fi PCB Antenna, Fully Balanced, Dipole-style, Center-fed (Series 146187)**

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

- **Dual band balanced antenna with ground-plane independent design**
  Reduces engineering resources and costs needed to mitigate PCB ground-induced radiation

- **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, 206994 and 211996); FR4 PCB (146187 and 206995)
- Plating: Refer to Sales Drawings
- Operating Temperature: -30 to +85°C
  -40 to +85°C (206995, 208482, 211996)

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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<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 by 3.00</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 by 0.16</td>
<td>100, 150, 200</td>
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<td>204281</td>
<td>Flexi material</td>
<td>Side</td>
<td>35.00 by 11.00 by 0.10</td>
<td>50, 100, 150, 200, 250, 300</td>
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<td>146153</td>
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<td>Center</td>
<td>34.90 by 9.00 by 0.10</td>
<td>50, 100, 150, 200, 250, 300</td>
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<tr>
<td>146187</td>
<td>PCB (FR4)</td>
<td>Center</td>
<td>40.95 by 9.00 by 0.70</td>
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<td>211996</td>
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<td>16.40 by 7.60 by 0.16</td>
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www.molex.com/link/antenna_iot.html

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