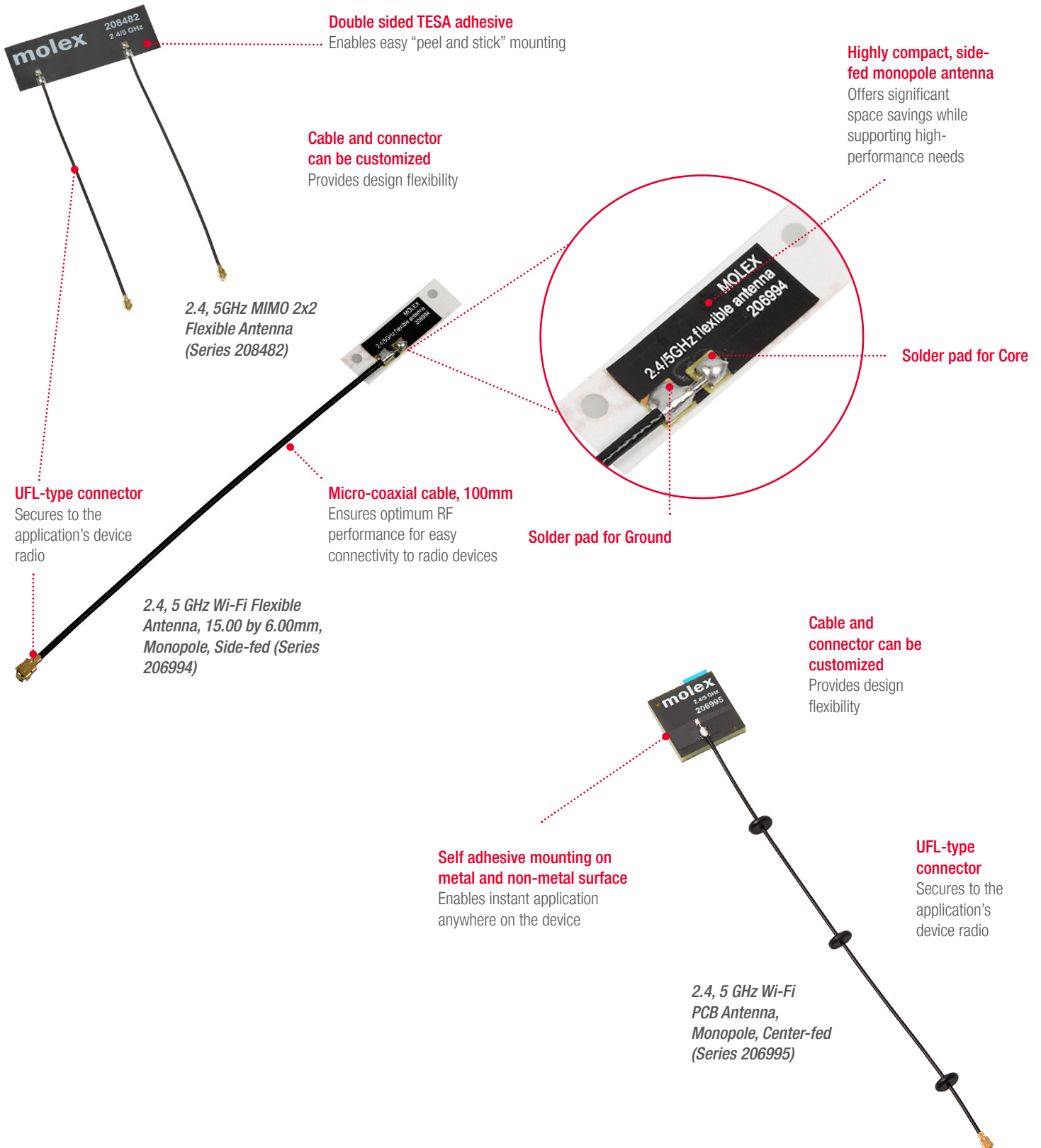


# 2.4, 5 GHz Flexible and PCB Antennas



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



# 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

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

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

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

### 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

Cable and connector can be customized  
Provides design flexibility

2.4/5GHz MIMO 4X4 FLEXIBLE ANTENNA

### Double-sided 3M adhesive

Enables easy "peel and stick" mounting

4x4 MIMO design  
Delivers superior connectivity

### 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

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## 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  
 Refer to Product Specifications (212330)  
 Average Total Radiation Efficiency (%):  
 Refer to Product Specifications  
 Peak Gain (dBi): Refer to Product Specifications  
 Input Impedance (ohms): 50

### PHYSICAL

Material: Flexi (146153, 204281, 208482, 206994, 212330);  
 FR4 PCB (146187 and 206995)  
 Plating:  
 Refer to Sales Drawings  
 Operating Temperature: -30 to +85°C  
 -40 to +85°C (206995, 208482, 212330)

### MECHANICAL

Refer to Product Specifications

## Ordering Information

| Series No.             | Substrate      | Cable Feed | Dimensions (mm)        | Cable Lengths (mm) |
|------------------------|----------------|------------|------------------------|--------------------|
| <a href="#">206994</a> | Flexi material | Side       | 15.00 by 6.00          | 100                |
| <a href="#">206995</a> | PCB (FR4)      | Center     | 20.50 by 20.50 by 3.00 | 150                |
| <a href="#">208482</a> | Flexi material | Center     | 55.20 by 19.20 by 0.16 | 100, 150, 200      |
| <a href="#">204281</a> | Flexi material | Side       | 35.00 by 11.00 by 0.10 | 50                 |
|                        |                |            |                        | 100                |
|                        |                |            |                        | 150                |
|                        |                |            |                        | 200                |
|                        |                |            |                        | 250                |
|                        |                |            |                        | 300                |
| <a href="#">146153</a> | Flexi material | Center     | 34.90 by 9.00 by 0.10  | 50                 |
|                        |                |            |                        | 100                |
|                        |                |            |                        | 150                |
|                        |                |            |                        | 200                |
|                        |                |            |                        | 250                |
|                        |                |            |                        | 300                |
| <a href="#">146187</a> | PCB (FR4)      | Center     | 40.95 by 9.00 by 0.70  | 50                 |
|                        |                |            |                        | 100                |
|                        |                |            |                        | 150                |
|                        |                |            |                        | 200                |
|                        |                |            |                        | 250                |
|                        |                |            |                        | 300                |
| <a href="#">212330</a> | Flexi material | Center     | 70.00 by 20.00         | 100, 150, 200      |

[www.molex.com/link/antenna\\_iot.html](http://www.molex.com/link/antenna_iot.html)

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