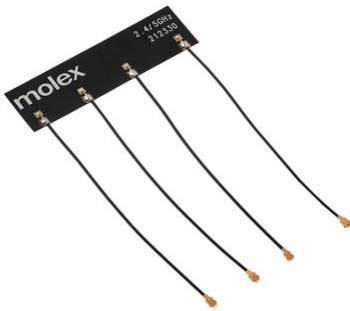




**Part Number :** [2123300100](#)  
**Product Description :** Wi-Fi 6E Flex Cabled 4x4 MIMO Antenna, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors  
**Series Number :** 212330  
**Status :** Active  
**Product Category :** Antennas

Documents & Resources

Drawings

[2123300100\\_sd.pdf](#)  
[2123300100-001.pdf](#)

3D Models and Design Files

[STEP AP242](#)  
[SOLIDWORKS](#)  
[Creo](#)

Specifications

[2123300100-000.pdf](#)  
[2123300100-001.pdf](#)

Product Environment Compliance

Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                                 |
| China RoHS         | <br>per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                                 |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                                               |
| REACH SVHC         | Not Contained per D(2024)7663-DC<br>(21 Jan 2025)                                                            |
| EU RoHS            | Compliant per EU 2015/863                                                                                    |

[Compliance Statements](#)  
• EU RoHS

- REACH SVHC
- Low-Halogen

#### Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

#### Substances of Interest

- PFAS

#### EU RoHS Certificate of Compliance

#### Additional Product Compliance Information

## Part Details

### General

|                |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                    |
| Category       | Antennas                                                                                                  |
| Series         | 212330                                                                                                    |
| Description    | Wi-Fi 6E Flex Cabled 4x4 MIMO Antenna, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors |
| Component Type | Flexible Antenna with Cable                                                                               |
| Function       | Signal                                                                                                    |
| Product Name   | 2.4/5GHz Flexible Antenna                                                                                 |
| Protocol       | BLE, BT, Thread, Wi-Fi, Zigbee                                                                            |
| Type           | Internal, Wi-Fi Antenna                                                                                   |
| UPC            | 193264251025                                                                                              |

### Electrical

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Band#1 F_End (MHz)      | 2483.5                                                                    |
| Band#1 F_Start (MHz)    | 2400                                                                      |
| Band#2 F_End (MHz)      | 5850                                                                      |
| Band#2 F_Start (MHz)    | 5150                                                                      |
| Electrical Connectivity | Cable                                                                     |
| Peak Gain (dBi)         | 2.4 @ 2.4G, 3.3 @ 5G (Port 1), 2.6 @ 2.4G, 2.3 @ 5G (Port 2), 3.0 @ 2.4G, |

|                        |                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                        | 3.4 @ 5G (Port 3), 3.5 @ 2.4G, 3.9 @ 5G (Port 4)                                                                                  |
| Return Loss - S11 (dB) | < -10 (Port 1), < -10 (Port 3), < -10 (Port 4), < -10 < -9 (Port 2)                                                               |
| Total Efficiency       | >50%@2.4GHz,>70%@5GHz (Port 3), >55%@2.4GHz,>65%@5GHz (Port 2),<br>>55%@2.4GHz,>65%@5GHz (Port 4), >55%@2.4GHz,>70%@5GHz (Port 1) |

## Physical

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 100.00mm        |
| Length            | 70.00mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 2.365/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Thickness         | 0.10mm          |
| Width             | 20.00mm         |

## Mates With / Use With

### Mates with Part(s)

| Description                                                                        | Part Number      |
|------------------------------------------------------------------------------------|------------------|
| MCRF Jack, Straight, PCB Receptacle, Surface Mount, 1.25mm Mounted Height, 50 Ohms | <u>734120110</u> |

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