



**Part Number :** [2042811250](#)  
**Product Description :** Wi-Fi 6E Flex Cabled Side-Fed  
Balanced Antenna, 250.00mm Cable Length,  
Compatible with I-PEX MHF4 Connectors  
**Series Number :** 204281  
**Status :** Active  
**Product Category :** Antennas



## Documents & Resources

### Drawings

[2042811250\\_sd.pdf](#)  
[2042810100-PK.pdf](#)

### 3D Models and Design Files

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

### Specifications

[2042810100-AS.pdf](#)  
[2042810100-PS.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         | Contains 2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one per D(2025)4165-DC (25 June 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

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## Part Details

### General

|                |                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                       |
| Category       | Antennas                                                                                                     |
| Series         | 204281                                                                                                       |
| Description    | Wi-Fi 6E Flex Cabled Side-Fed Balanced Antenna, 250.00mm Cable Length, Compatible with I-PEX MHF4 Connectors |
| Component Type | Flexible Antenna with Cable                                                                                  |
| Function       | Signal                                                                                                       |
| Product Name   | 2.4/5GHz Wi-Fi Antenna                                                                                       |
| Protocol       | BLE, BT, Thread, Wi-Fi, Wireless Hart, Zigbee                                                                |
| Type           | Internal, Wi-Fi Antenna                                                                                      |
| UPC            | 191128462556                                                                                                 |

### 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)        | 1.4 @ 2.4 GHz, 2.5 @ 5 GHz  |
| Return Loss - S11 (dB) | < -10                       |
| Total Efficiency       | >58% @2.4 GHz, >62% @ 5 GHz |

**Physical**

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 250.00mm        |
| Length            | 35.00mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 1.136/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Thickness         | 0.10mm          |
| Width             | 11.00mm         |