



**Part Number :** [1461531150](#)  
**Product Description :** Wi-Fi 6E Flex Cabled Balanced Antenna, 9.00mm Width, 150.00mm Cable Length, Compatible with I-PEX MHF4 Connectors  
**Series Number :** 146153  
**Status :** Active  
**Product Category :** Antennas



## Documents & Resources

### Drawings

[1461531150\\_sd.pdf](#)  
[1461530100-000.pdf](#)

### 3D Models and Design Files

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

### Specifications

[AS-146153-100-001.pdf](#)  
[PS-146153-100-001.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         | 146153                                                                                                            |
| Description    | Wi-Fi 6E Flex Cabled Balanced Antenna, 9.00mm Width, 150.00mm Cable Length, Compatible with I-PEX MHF4 Connectors |
| Component Type | Flexible Antenna with Cable                                                                                       |
| Function       | Signal                                                                                                            |
| Product Name   | 2.4/5GHz Balanced Flex Antenna                                                                                    |
| Protocol       | BLE, BT, Thread, Wi-Fi, Wireless Hart, Zigbee                                                                     |
| Type           | Internal, Wi-Fi Antenna                                                                                           |
| UPC            | 191128463256                                                                                                      |

### Electrical

|                         |        |
|-------------------------|--------|
| Band#1 F_End (MHz)      | 2483.5 |
| Band#1 F_Start (MHz)    | 2400   |
| Band#2 F_End (MHz)      | 5930   |
| Band#2 F_Start (MHz)    | 4900   |
| Electrical Connectivity | Cable  |

|                        |                             |
|------------------------|-----------------------------|
| Peak Gain (dBi)        | 2.8 @ 2.4 GHz, 3.7 @ 5 GHz  |
| Return Loss - S11 (dB) | < -10                       |
| Total Efficiency       | >70% @ 5 GHz, >72% @2.4 GHz |

**Physical**

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 150.00mm        |
| Length            | 34.90mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 0.682/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Thickness         | 0.10mm          |
| Width             | 9.00mm          |