



**Part Number :** [1461530100](#)

**Product Description :** Wi-Fi 6E Flex Cabled Balanced Antenna, 9.00mm Width, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors

**Series Number :** 146153

**Status :** Active

**Product Category :** Antennas



## Documents & Resources

### Drawings

[1461530100\\_sd.pdf](#)

[1461530100-000.pdf](#)

### 3D Models and Design Files

[1461530100\\_stp.zip](#)

### 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

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## Part Details

### General

|                |                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                                                  |
| Category       | Antennas                                                                                                                |
| Series         | 146153                                                                                                                  |
| Description    | Wi-Fi 6E Flex Cabled Balanced Antenna, 9.00mm Width, 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 Balanced Flex Antenna                                                                                          |
| Protocol       | BLE, BT, Thread, Wi-Fi, Wireless Hart, Zigbee                                                                           |
| Type           | Internal, Wi-Fi Antenna                                                                                                 |
| UPC            | 889056310017                                                                                                            |

### 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)         | 3.0 @ 2.4 GHz, 4.0 @ 5 GHz |
| Return Loss - S11 (dB)  | < -10                      |

|                  |                              |
|------------------|------------------------------|
| Total Efficiency | >75% @ 2.4 GHz, >75% @ 5 GHz |
|------------------|------------------------------|

**Physical**

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 100.00mm        |
| Length            | 34.90mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 0.480/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Thickness         | 0.10mm          |
| Width             | 9.00mm          |

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**Mates With / Use With**

**Mates with Part(s)**

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