



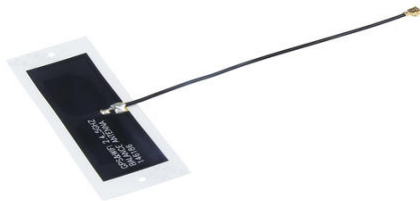
**Part Number :** [1461860300](#)

**Product Description :** Wi-Fi 6E+GNSS Flex Cabled  
Balanced Antenna, 18.00mm Width, 300.00mm Cable  
Length, Compatible with U.FL / I-PEX MHF Connectors

**Series Number :** 146186

**Status :** Obsolete

**Product Category :** Antennas



## Documents & Resources

### Specifications

[AS-146186-100-001.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(2025)4165-DC<br>(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

## Part Details

### General

|                |                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Status         | Obsolete                                                                                                                                  |
| Category       | Antennas                                                                                                                                  |
| Series         | 146186                                                                                                                                    |
| Description    | Wi-Fi 6E+GNSS Flex Cabled<br>Balanced Antenna, 18.00mm<br>Width, 300.00mm Cable Length,<br>Compatible with U.FL / I-PEX MHF<br>Connectors |
| Component Type | Flexible Antenna with Cable                                                                                                               |
| Function       | Signal                                                                                                                                    |
| Product Name   | 2.4/5GHz GPS-Wi-Fi Antenna                                                                                                                |
| Protocol       | BeiDou, BLE, BT, Galileo, GLONASS,<br>GPS, Thread, Wi-Fi, Wireless Hart,<br>Zigbee                                                        |
| Type           | Combo Wi-Fi/GNSS Antenna                                                                                                                  |
| UPC            | 889056433655                                                                                                                              |

### Electrical

|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| Band#1 F_End (MHz)      | 1602                                                           |
| Band#1 F_Start (MHz)    | 1575.42                                                        |
| Band#2 F_End (MHz)      | 2483.5                                                         |
| Band#2 F_Start (MHz)    | 2400                                                           |
| Band#3 F_End (MHz)      | 5850                                                           |
| Band#3 F_Start (MHz)    | 5150                                                           |
| Band#4 F_End (MHz)      | 6000                                                           |
| Band#4 F_Start (MHz)    | 3000                                                           |
| Electrical Connectivity | Cable                                                          |
| Peak Gain (dBi)         | 2.4 @ 1575 MHz, 2.4 @ 2.4 GHz, 3.0<br>@ 5 GHz, 3.7 @ 3 GHz     |
| Return Loss - S11 (dB)  | < -10                                                          |
| Total Efficiency        | >56% @ 5 GHz, >61% @ 1575 MHz,<br>>64% @ 3 GHz, >65% @ 2.4 GHz |

Physical

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 300.00mm        |
| Length            | 53.00mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 1.513/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Thickness         | 0.10mm          |
| Width             | 18.00mm         |

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> |

This document was generated on Sep 10, 2025