**Part Number :** 1461860200
**Product Description :** Wi-Fi 6E+GNSS Flex Cabled Balanced Antenna, 18.00mm Width, 200.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors
**Series Number :** 146186
**Status :** Active
**Product Category :** Antennas



## Documents and Resources

### Drawings

1461860200_sd.pdf

1461860100-000.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

### Specifications

AS-146186-100-001.pdf

PS-146186-100-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Not Relevant |
| China RoHS | 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)7771-DC (04 Feb 2026) |
| EU RoHS | Compliant per EU 2015/863 |

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

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- 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 | 146186 |
| Description | Wi-Fi 6E+GNSS Flex Cabled Balanced Antenna, 18.00mm Width, 200.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors |
| Component Type | Flexible Antenna with Cable |
| Function | Signal |
| Product Name | 2.4/5GHz GPS-Wi-Fi Antenna |
| Protocol | BeiDou, BLE, BT, Galileo, GLONASS, GPS, Thread, Wi-Fi, Wireless Hart, Zigbee |
| Type | Combo Wi-Fi/GNSS Antenna |
| UPC | 889056433631 |

### 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 |

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| | |
|---|---|
| Band#4 F_Start (MHz) | 3000 |
| Electrical Connectivity | Cable |
| Peak Gain (dBi) | 2.7 @ 1575 MHz, 2.7 @ 2.4 GHz, 3.5 @ 5 GHz, 4.2 @ 3 GHz |
| Return Loss - S11 (dB) | < -10 |
| Total Efficiency | >62% @ 5 GHz, >65% @ 1575 MHz, >70% @ 2.4 GHz, >71% @ 3 GHz |

### Physical

| | |
|---|---|
| Cable Length | 200.00mm |
| Length | 53.00mm |
| Mounting Style | Adhesive |
| Net Weight | 1.182/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 | 734120110 |



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