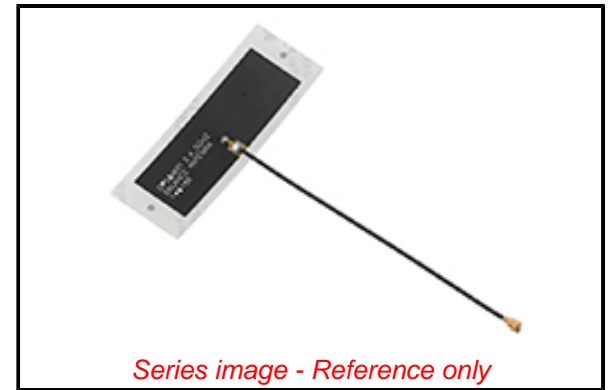


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**Part Number:** [1461860100](#)  
**Status:** **Active**  
**Overview:** Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee  
**Description:** GPS and Wi-Fi 2.4GHz / 5GHz Combo Flex Antenna, 18.00mm Width, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors

**Documents:**

|   |   |
|---|---|
| <a href="#">3D Model</a>                                      | <a href="#">Application Specification AS-146186-100-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                 | <a href="#">Packaging Specification 1461860100-000 (PDF)</a>      |
| <a href="#">3D Model (PDF)</a>                                | <a href="#">Datasheet (PDF)</a>                                   |
| <a href="#">Product Specification PS-146186-100-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |



**General**

|                |  |
|----------------|--|
| Product Family | Antennas   |
| Series         | <a href="#">146186</a>   |
| Component Type | Flexible Antenna with Cable  |
| Function       | Signal   |
| Mates With     | <a href="#">734120110</a> Microcoaxial RF, 50 Ohm                            |
| Overview       | <a href="#">Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee</a>  |
| 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            | 889056433518   |

**Physical**

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 100.00mm        |
| Length            | 53.00mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 0.894/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Thickness         | 0.10mm          |
| Width             | 18.00mm         |

**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)         | 3.0 @ 1575 MHz, 3.0 @ 2.4 GHz, 4.0 @ 5 GHz, 4.7 @ 3 GHz     |
| Return Loss - S11 (dB)  | < -10   |
| Total Efficiency        | >70% @ 1575 MHz, >70% @ 5 GHz, >75% @ 2.4 GHz, >80% @ 3 GHz |

**Material Info**

**Reference - Drawing Numbers**

|                           |                   |
|---------------------------|-------------------|
| Application Specification | AS-146186-100-001 |
| Packaging Specification   | 1461860100-000    |

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per - ED/71/2019 (16 July 2019)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[146186](#) Series

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