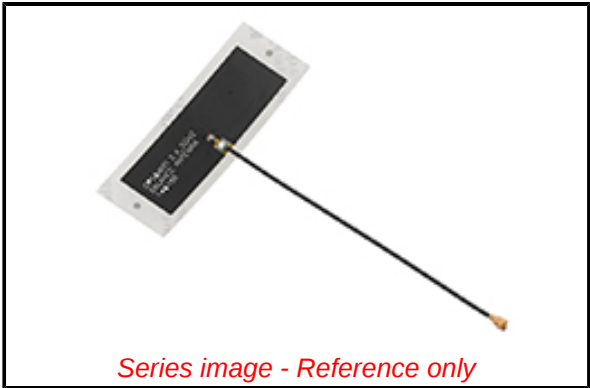


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**Part Number:** [1461860100](#)  
**Status:** **Active**  
**Overview:** Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee  
**Description:** GPS and Wi-Fi 2.4GHz / 5GHz Combo Flex Antenna, 18.00mm Width, 100.00mm Cable Length, Compatible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

**Documents:**  
[3D Model](#) [Application Specification AS-146186-100-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [Packaging Specification 1461860100-000 \(PDF\)](#)  
[3D Model \(PDF\)](#) [Datasheet \(PDF\)](#)  
[Product Specification PS-146186-100-001 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

|                                    |                                                                              |
|------------------------------------|------------------------------------------------------------------------------|
| <b>General</b>                     |                                                                              |
| 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                           | Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee                  |
| 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                                                                 |
| <b>Physical</b>                    |                                                                              |
| 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                                                                      |
| <b>Electrical</b>                  |                                                                              |
| 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                  |
| <b>Material Info</b>               |                                                                              |
| <b>Reference - Drawing Numbers</b> |                                                                              |
| Application Specification          | AS-146186-100-001                                                            |
| Packaging Specification            | 1461860100-000                                                               |



|                                                                                                                                                                                                                                             |                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>EU ELV</b><br><b>Not Relevant</b>                                                                                                                                                                                                        |                                              |
| <b>EU RoHS</b><br><b>Compliant</b><br><b>REACH SVHC</b><br>Not Contained Per - D(2020)4578-DC (25 June 2020)<br><b>Halogen-Free</b><br><b>Status</b><br><b>Low-Halogen</b><br>For more information, please visit <a href="#">Contact US</a> | <b>China RoHS</b>                            |
| China ROHS<br>ELV<br>RoHS Phthalates                                                                                                                                                                                                        | Green Image<br>Not Relevant<br>Not Contained |

**Search Parts in this Series**  
[146186](#) Series

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