

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** **1461860050**  
**Status:** **Active**  
**Overview:** Standard Antennas  
**Description:** GPS and WiFi 2.4GHz / 5GHz Combo Flex Antenna, 18.00mm Width, Cable Length 50.00mm

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-146186-100 \(PDF\)](#) [Product Literature \(PDF\)](#)  
[Application Specification AS-146186-100 \(PDF\)](#)

**General**

|                             |                                    |
|-----------------------------|------------------------------------|
| Product Family              | Antennas                           |
| Series                      | 146186                             |
| Component Type              | Stand Alone Antenna with Cable     |
| Mates With                  | 73412-0110 Microcoaxial RF, 50 Ohm |
| Overview                    | Standard Antennas                  |
| Product Literature Order No | 987651-3851                        |
| Product Name                | 2.4/5GHz GPS-Wi-Fi* Antenna        |
| Type                        | GPS-Wifi Antenna                   |
| UPC                         | 889056433495                       |

**Physical**

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 50.00mm         |
| Depth             | 0.10mm          |
| Length            | 53.00mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 0.566/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Width             | 18.00mm         |

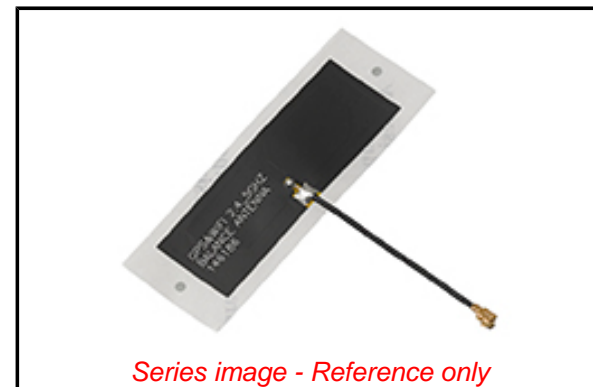
**Electrical**

|                         |   |
|-------------------------|---|
| 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   |
| Impedance               | 50#   |
| Number of Bands         | 4   |
| Peak Gain (dBi)         | 3.15 @ 1575M, 3.15 @ 2.4G, 4.25 @ 5G, 5.0 @ 3G  |
| Return Loss - S11 (dB)  | < -10   |
| Total Efficiency        | >72% @ 1575M, >74% @ 5G, >77% @ 2.4G, >84% @ 3G |

**Material Info**

**Reference - Drawing Numbers**

|                           |               |
|---------------------------|---------------|
| Application Specification | AS-146186-100 |
| Product Specification     | PS-146186-100 |
| Sales Drawing             | SD-146186-050 |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
-ED/79/2015 (17  
December 2015)

**Halogen-Free**

**Status**

**Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS  
ELV

Green Image  
Not Relevant

**Search Parts in this Series**  
146186 Series

This document was generated on 05/09/2016

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**