

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

**Part Number:** **1461850050**  
**Status:** **Active**  
**Overview:** Antennas  
**Description:** Cellular Quad-band Flex Antenna, 15.00mm Width, Cable Length 50.00mm

**Documents:**

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| <a href="#">3D Model</a>                                      | <a href="#">Application Specification AS-146185-100-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                                 | <a href="#">Packaging Specification 1461850100-000 (PDF)</a>      |
| <a href="#">Product Specification PS-146185-100-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>              |

**General**

|                |                                           |
|----------------|-------------------------------------------|
| Product Family | Antennas                                  |
| Series         | <u>146185</u>                             |
| Component Type | Stand Alone Antenna with Cable            |
| Mates With     | <u>73412-0110</u> Microcoaxial RF, 50 Ohm |
| Overview       | <u>Antennas</u>                           |
| Product Name   | Multi-band Cellular-Wi-Fi                 |
| Protocol       | Cellular                                  |
| Type           | Cellular Antenna                          |
| UPC            | 889056549622                              |

**Physical**

|                   |                 |
|-------------------|-----------------|
| Cable Length      | 50.00mm         |
| Length            | 84.00mm         |
| Mounting Style    | Adhesive        |
| Net Weight        | 0.566/g         |
| Packaging Type    | PET Film        |
| Polarization      | Linear          |
| Radiation Pattern | Omnidirectional |
| Thickness         | 0.10mm          |
| Width             | 15.00mm         |

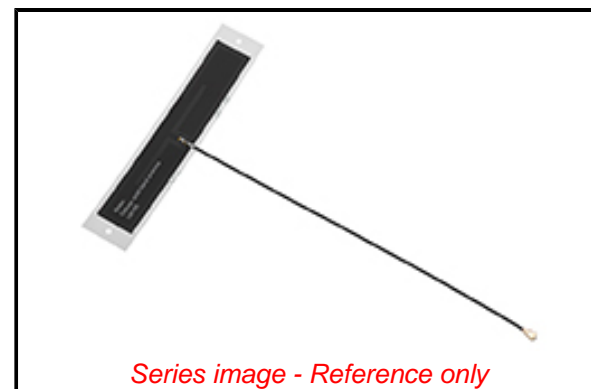
**Electrical**

|                         |                                      |
|-------------------------|--------------------------------------|
| Band#1 F_End (MHz)      | 960                                  |
| Band#1 F_Start (MHz)    | 824                                  |
| Band#2 F_End (MHz)      | 2700                                 |
| Band#2 F_Start (MHz)    | 1710                                 |
| Band#3 F_End (MHz)      | 6000                                 |
| Band#3 F_Start (MHz)    | 3000                                 |
| Electrical Connectivity | Cable                                |
| Impedance               | 50Ω                                  |
| Number of Bands         | 2 - Wi-Fi, 7 - Cellular              |
| Peak Gain (dBi)         | 1.6 @ 824M, 3.4 @ 1710M, 4.2 @ 3G    |
| Return Loss - S11 (dB)  | < -4, < -6                           |
| Total Efficiency        | >65% @ 824M, >72% @ 1710M, >74% @ 3G |

**Material Info**

**Reference - Drawing Numbers**

|                           |                   |
|---------------------------|-------------------|
| Application Specification | AS-146185-100-001 |
| Packaging Specification   | 1461850100-000    |
| Product Specification     | PS-146185-100-001 |
| Sales Drawing             | SD-146185-050-001 |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
ED/30/2017 (7 July  
2017)

**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

RoHS Phthalates

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[146185](#) Series