



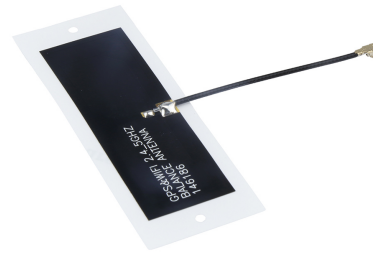
**Part Number :** [1461860050](#)

**Product Description :** Wi-Fi 6E+GNSS Flex  
Cabled Balanced Antenna, 18.00mm Width,  
50.00mm Cable Length, Compatible with U.FL  
/ I-PEX MHF Connectors

**Series Number :** 146186

**Status :** Active

**Product Category :** Antennas



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## Documents & Resources

### Drawings

[Drawing 1461860050\\_sd.pdf](#)

[Packaging Design Drawing 1461860100-000.pdf](#)

### 3D Models and Design Files

[3D Model 1461860050\\_stp.zip](#)

### Specifications


[Application Specification AS-146186-100-001.pdf](#)

[Product Specification PS-146186-100-001.pdf](#)

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## Product Environment Compliance

### Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2021)10043-DC (17 Jan 2022)
EU RoHS	Compliant per EU 2015/863

### [Multiple Part Product Compliance Statements](#)

- Eu RoHS
- REACH SVHC
- Low-Halogen

### [Multiple Part Industry Compliance Documents](#)

- IPC 1752A Class C

- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

## EU RoHS Certificate of Compliance

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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, 50.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors
Component Type	Flexible Antenna with Cable
Function	Signal
Product Family	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	889056433495

#### 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)	3.15 @ 1575 MHz, 3.15 @ 2.4 GHz, 4.25 @ 5 GHz, 5.0 @ 3 GHz
Return Loss - S11 (dB)	< -10
Total Efficiency	>72% @ 1575 MHz, >74% @ 5 GHz, >77% @ 2.4 GHz, >84% @ 3 GHz

## Physical

Cable Length	50.00mm
Length	53.00mm
Mounting Style	Adhesive
Net Weight	0.718/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
50 Ohms, MCRF, PCB Vertical Jack Receptacle, SMT, 1.25mm Mounted Height	<u>0734120110</u>

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