



**Part Number :** [1461870100](#)

**Product Description :** Wi-Fi 6E PCB Cabled Balanced Antenna, 9.00mm Width, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors

**Series Number :** 146187

**Status :** Active

**Product Category :** Antennas



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## Documents & Resources

### Drawings

[Drawing 1461870100\\_sd.pdf](#)

[Packaging Design Drawing 1461870100-PK.pdf](#)

### 3D Models and Design Files

[3D Model 1461870100\\_stp.zip](#)

[3D Model PDF 1461870100.pdf](#)

### Specifications

[Application Specification AS-146187-100-001.pdf](#)

[Product Specification PS-146187-100-001.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	Contains 2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one per D(2022)4187-DC (10 June 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	146187
Description	Wi-Fi 6E PCB Cabled Balanced Antenna, 9.00mm Width, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors
Component Type	PCB Antenna with Cable
Function	Signal
Product Family	Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee
Product Name	2.4/5GHz Balanced PCB Antenna
Protocol	BLE, BT, Thread, Wi-Fi, Wireless Hart, Zigbee
Type	Internal, Wi-Fi Antenna
UPC	889056416405

#### Electrical

Band#1 F_End (MHz)	2483.5
Band#1 F_Start (MHz)	2400
Band#2 F_End (MHz)	5850
Band#2 F_Start (MHz)	5150
Electrical Connectivity	Cable
Peak Gain (dBi)	3.2 @ 2.4 GHz, 4.5 @ 5 GHz
Return Loss - S11 (dB)	< -10
Total Efficiency	>70% @ 5 GHz, >80% @ 2.4 GHz

## Physical

Cable Length	100.00mm
Length	40.95mm
Mounting Style	Screw-Nut
Net Weight	0.893/g
Packaging Type	PET Film
Polarization	Linear
Radiation Pattern	Omnidirectional
Thickness	0.70mm
Width	9.00mm

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## 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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