Part Number : 1461870050
Product Description : Wi-Fi 6E PCB Cabled Balanced Antenna, 9.00mm Width, 50.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors
Series Number : 146187
Status : Active
Product Category : Antennas



Documents and Resources

Drawings

1461870050_sd.pdf

1461870100-PK.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Specifications

AS-146187-100-001.pdf

PS-146187-100-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	per SJ/T 11365-2006
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(2025)7771-DC (04 Feb 2026)
EU RoHS	Compliant per EU 2015/863

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Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

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

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

Part Details

General

Status	Active
Category	Antennas
Series	146187
Description	Wi-Fi 6E PCB Cabled Balanced Antenna, 9.00mm Width, 50.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors
Component Type	PCB Antenna with Cable
Function	Signal
Product Name	2.4/5GHz Balanced PCB Antenna
Protocol	BLE, BT, Thread, Wi-Fi, Wireless Hart, Zigbee
Type	Internal, Wi-Fi Antenna
UPC	889056416399

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

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Electrical Connectivity	Cable
Peak Gain (dBi)	3.4 @ 2.4 GHz, 4.75 @ 5 GHz
Return Loss - S11 (dB)	< -10
Total Efficiency	>75% @ 5 GHz, >85% @ 2.4 GHz

Physical

Cable Length	50.00mm
Length	40.95mm
Mounting Style	Screw-Nut
Net Weight	0.732/g
Packaging Type	PET Film
Polarization	Linear
Radiation Pattern	Omnidirectional
Thickness	0.70mm
Width	9.00mm

Mates With / Use With

Mates with Part(s)

Description	Part Number
MCRF Jack, Straight, PCB Receptacle, Surface Mount, 1.25mm Mounted Height, 50 Ohms	734120110

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