



Part Number : [1462200100](#)

Product Description : Wi-Fi 6E+GNSS PCB Cabled Balanced Antenna, 16.60mm Width, 100.00mm Cable Length, Compatible with U.FL / I-PEX MHF Connectors

Series Number : 146220

Status : Active

Product Category : Antennas

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## Documents & Resources

### 3D Models and Design Files

[3D Model 1462200100\\_stp.zip](#)

### Specifications

[Application Specification AS-146220-100-001.pdf](#)

[Packaging Specification PK-146220-100-001.pdf](#)

[Product Specification PS-146220-100-001.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(2023)8585-DC (23 Jan 2024)
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

## Part Details

### General

Status	Active
Category	Antennas
Series	146220
Description	Wi-Fi 6E+GNSS PCB Cabled Balanced Antenna, 16.60mm 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 GPS-Wi-Fi Antenna
Protocol	BeiDou, BLE, BT, Galileo, GLONASS, GPS, Thread, Wi-Fi, Wireless Hart, Zigbee
Type	Combo Wi-Fi/GNSS Antenna
UPC	889056569668

### 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)	2.4 @ 1575 MHz, 2.9 @ 2.4 GHz, 3.5 @ 3 GHz, 3.8 @ 5 GHz
Return Loss - S11 (dB)	< -8

Total Efficiency	>78% @ 3 GHz, >80% @ 2.4 GHz, >82% @ 1575 MHz, >83% @ 5 GHz
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## Physical

Cable Length	100.00mm
Length	53.50mm
Mounting Style	Screw-Nut
Net Weight	1.794/g
Packaging Type	PET Film
Polarization	Linear
Radiation Pattern	Omnidirectional
Thickness	0.81mm
Width	16.60mm

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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>734120110</u>

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