molex
one company › a world of innovation

This document was generated on 02/26/2021

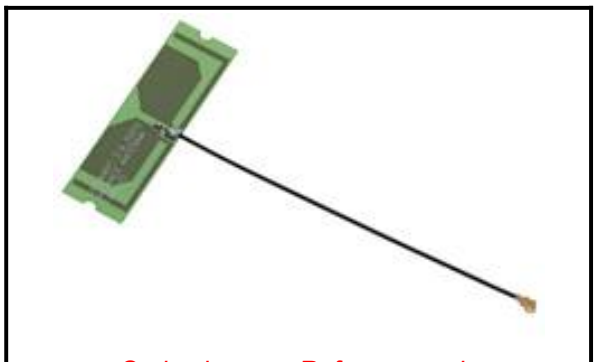
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 1462200100

Status: Active

Overview: Internet of Things (IoT) Antennas: Wi-Fi, Bluetooth, Zigbee

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 image - Reference only

Documents:

- 3D Model
- 3D Model (PDF)
- Drawing (PDF)
- Product Specification PS-146220-100-001 (PDF)
- Application Specification AS-146220-100-001 (PDF)
- Packaging Specification PK-146220-100-001 (PDF)
- Datasheet (PDF)
- RoHS Certificate of Compliance (PDF)

EU ELV
Not Relevant

EU RoHS
Compliant

China RoHS

REACH SVHC
Not Contained Per - D(2020)9139-DC (19 Jan 2021)

Halogen-Free Status
Low-Halogen

For more information, please visit Contact US

China ROHS	Green Image
ELV	Not Relevant
RoHS Phthalates	Not Contained

Search Parts in this Series
146220 Series

General

Product Family	Antennas
Series	146220
Component Type	PCB Antenna with Cable
Function	Signal
Mates With	734120110 Microcoaxial RF, 50 Ohm
Overview	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

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

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

Material Info

Reference - Drawing Numbers

Application Specification	AS-146220-100-001
Packaging Specification	PK-146220-100-001

This document was generated on 02/26/2021

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION